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Phase Data Catalogue for IASPEI Events

by

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Abstract

This report provides a catalogue of relocated hypocenters and a listing of reported phase arrivals for a series of 51 events chosen for discussion during a special session on the Analysis of Selected Earthquakes which will be convened by the Commission on Practice at the 1985 IASPEI General Assembly in Tokyo. The basic data set was obtained from the phase data tapes of the International Seismological Centre and from the *Preliminary Determination of Epicenters Monthly Listing* data base of the U.S. Geological Survey, National Earthquake Information Center (NEIC). To this data set, additional data were added from several sources, and the events were relocated using the standard programs used by NEIC to produce the *Monthly Listings* and *Earthquake Data Report* (EDR). The results are presented in standard PDE and EDR format, along with station distribution maps for each of the events.

Introduction

The purpose of this report is to provide a catalogue of relocated hypocenters and a listing of reported phase arrivals for a series of events chosen for discussion during a special session on the Analysis of Selected Earthquakes which will be convened by the Commission on Practice at the 1985 IASPEI General Assembly in Tokyo. This report is intended to be a companion report to the Waveform Catalogue for IASPEI Events by M. D. Zirbes and B. J. Moon (U.S. Geological Survey Open-File Report 85-218).

The goal of this special session is to provide a focus on modern scientific practice in the areas of earthquake quantification, data exchange, digital seismology, and algorithms. Participants have agreed to analyze a selection of fifty-one recent well-recorded world-wide earthquakes representing a range of sizes, locations, focal depths, and source characteristics.

The Data Base

The basic data set was obtained from the phase data tapes of the International Seismological Centre (ISC) for events in 1980 through 1982 and from the *Preliminary Determination of Epicenters (PDE) Monthly Listing* data base of the U.S. Geological Survey, National Earthquake Information Center (NEIC) for events in 1983 and 1984. Data were extracted from these data bases using the retrieval program FARSE, written by G. J. Dunphy of NEIC.

To this data set additional readings were added from several sources. Hypocenter information and much local and regional phase data were supplied by personnel of the U.S. Geological Survey, National Center for Earthquake Research, in Menlo Park for the earthquakes in California and Alaska. Data for the Columbia Bay, Alaska earthquakes of July 12 and September 7, 1983, were supplied by C.D. Stephens; data for the Eureka, California earthquake of November 8, 1980 and the Coalinga, California earthquake of May 2, 1983, were supplied by J.P. Eaton; and data for the Mammoth Lakes, California earthquake of May 25, 1980, were supplied by R.S. Cockerham. Local phase data from the Adak Network were supplied by E.R. Engdahl, of NEIC, for the Andreanof Islands, Alaska earthquake of June 9, 1983. In addition to the contributions listed above, additional phase data were entered from selected network bulletins for many of the events, especially those occurring in 1983 and 1984 for which the ISC data tapes were not yet available. Finally, additional phase data were read by the author from the NEIC U.S. Telemetered Network for 31 of the events, including all the events within or near the United States. Table 1 presents a summary of the number of stations reported for each event as well as the number used in each hypocenter computation by the NEIC PDE *Monthly Listing,* the ISC *Bulletin* and this report.

While checking network bulletins for additional data, it was discovered that the Japan Meteorological Agency (JMA) had determined that the IASPEI event of January 1, 1984 was indeed two events located in nearly the same place about 4 seconds apart. The PDE *Monthly Listing* had reported only one event at this time in the area. The conclusion of the JMA that there were really two events was confirmed by checking the data of the

U.S. Telemetered Network for that time period. The main shock, which is really the event IASPEI intended to have on its list, has a magnitude of 6.6 m_b and is preceded by a foreshock of magnitude approximately 5.3 m_b. In this study, both events were recomputed and published as an aid to interpreting the main event, even though the foreshock is not really part of the IASPEI event list.

Recomputation

All events in the list were recomputed using the standard programs which are included in the NEIC Seismic Data Analysis System (SEDAS) for routine publication of NEIC's *Quick Epicenter Determinations* (QED), PDE, PDE *Monthly Listing* and *Earthquake Data Report* (EDR). Hypocentral parameters for seven of the events were constrained to solutions furnished by agencies who have regional networks and/or special crustal models for the areas in which those events occurred. The seven events were the California and the Columbia Bay, Alaska earthquakes furnished by Stephens, Eaton and Cockerham, as listed previously; the Hawaii earthquake of November 16, 1983 supplied by the staff of the U.S. Geological Survey, Hawaiian Volcano Observatory; and the New Brunswick Canada earthquake of January 9, 1982 which was constrained to a special solution prepared by James Dewey of NEIC.

The remaining forty-five events were recomputed using generally standard procedures followed by NEIC geophysicists for publication of the routine bulletins. The revised event list of the IASPEI events is presented in standard PDE format in Table 3 and a listing of all phase data is given in standard EDR format in Table 4. In addition, a listing of the hypocenters and associated phase data is available on magnetic tape and may be obtained by interested organizations upon request to the National Earthquake Information Center. Detailed descriptions of procedures and symbols used in routine listings of the PDE and EDR may be found in the January and July issues of the PDE *Monthly Listing*, and each issue of the EDR. For convenience, summaries of these explanations are included at the end of Tables 3 and 4.

In addition to the traditional PDE and EDR for these events, two special data presentations were prepared for this special study. Table 2 shows the size and orientation of the semi-major and semi-minor axes of the horizontal projection of the error ellipsoid and the marginal confidence interval for depth for each of the events. The values shown represent the 90-percent confidence levels for each parameter. As a visual aid to recognizing the station distribution pattern for each event, azimuthal equi-distant plots were made with vectors between the epicenter and each station associated to the event within 105 degrees of the epicenter. Stations used in the computation were plotted with a diamond symbol while stations associated but not used in the computation were designated by an "x". To show distribution near the hypocenter, a second plot was made for each event for stations within 10 degrees of the event. In cases where no stations were within 10 degrees of the hypocenter, the regional plot uses a sufficiently large radius to show at least the closest station. For comparison, these special plots have a dashed circle plotted at the normal 10-degree radius. These plots are presented in Figures 1 through 26.

TABLE 1

Number of Stations Used in Computation and Total Number Reported by PDE Monthly Listing, ISC Bulletin and This Publication

Event		PDE Monthly Used/Rep.	ISC Bulletin Reported *	Current List Used/Rep.
1980				
Jan 01	16:42:40	249/349	432	354/451
May 25	16:33:44	246/246 F	355	579/579 F
Jun 29	07:20:07	222/272	507	436/506
Jul 29	14:58:41	257/296	451	383/449
Oct 10	12:25:23	203/310	514	430/514
Oct 24	14:53:34	326/369	510	457/540
Nov 08	10:27:33	314/384	510	828/828 F
Nov 23	18:34:53	265/346	506	432/504
1981				
Jan 18	18:17:26	220/277	513	416/509
Jan 23	21:13:48	188/268	379	306/383
Jul 06	03:08:34	153/269	510	402/515
Oct 28	04:34:17	100/137	272	198/284
Nov 22	15:05:22	298/336	469	435/470
Nov 27	17:21:45	315/341	606	572/611
1982				
Jan 03	14:09:50	219/291	412	300/414
Jan 09	12:53:51	276/276 F	391	393/393 F
Aug 05	20:32:48	165/315	456	257/526
Sep 06	01:47:03	413/496	676	599/679
Dec 13	09:12:48	303/303 F	419	372/435
1983				
Feb 13	01:40:11	194/290	—	283/389
Apr 03	02:50:02	318/423	—	370/512
Apr 04	02:51:34	426/470	—	494/543
Apr 11	08:18:10	350/373	—	414/449
Apr 18	10:58:48	369/428	—	420/487
May 02	23:42:37	471/471 F	—	569/569 F
May 26	02:59:59	481/558	—	590/685
Jun 01	01:59:54	343/400	—	461/529
Jun 02	20:12:50	343/379	—	417/463
Jun 09	18:46:02	357/383	—	477/509
Jun 21	06:25:26	468/552	—	589/664
Jun 24	09:06:45	311/361	—	362/412
Jul 12	15:10:04	300/341	—	518/518 F
Aug 06	15:43:52	301/410	—	385/492
Aug 17	10:55:54	413/480	—	530/591
Sep 07	19:22:05	377/411	—	534/534 F
Sep 12	15:42:08	380/407	—	455/491
Oct 04	18:52:12	285/360	—	348/442
Oct 09	11:25:38	249/289	—	331/390
Oct 17	19:36:22	279/366	—	372/447
Oct 22	04:21:35	132/318	—	145/385
Oct 30	04:12:28	357/407	—	406/463
Nov 16	16:13:00	394/394 F	—	474/474 F
Nov 24	05:30:36	364/538	—	414/588
Nov 30	17:46:00	402/495	—	439/525
Dec 22	04:11:29	343/394	—	412/465
Dec 30	23:52:39	485/525	—	536/580
1984				
Jan 01	09:03:37	nr	—	346/367
Jan 01	09:03:41	412/561	—	432/456
Feb 07	21:33:20	318/454	—	376/548
Mar 05	03:33:50	489/549	—	600/693
Mar 19	20:28:38	427/504	—	486/575
Mar 24	09:43:59	400/527	—	518/658

Notes:

* Since ISC uses a weighting scheme for its solutions, the number of stations used has no meaning. ISC data for 1983 and 1984 were not yet available when this report was in preparation.

F Furnished solution

nr This foreshock was not reported on the PDE Monthly.

Results

The results of this data collection and recomputation effort are presented in Tables 2, 3 and 4 and Figures 1 through 26 on the following pages. However, a few additional remarks appear to be in order. First, it is interesting to note the rather dramatic differences in the station distribution patterns for different events, even though each is large and recorded throughout the world. Although this is not unexpected because of the uneven distribution of land masses on the earth's surface, this clearly demonstrates that it is dangerous to assume that large events in different parts of the world will be equally well located. Of course, this effect is even more pronounced for events of smaller magnitude.

Second, it should be noted that for two events in the list, a procedure was followed which departs from standard PDE and EDR operations. Normally, the depth of the Santa Cruz Islands earthquake of August 5, 1982 would have been restrained by the geophysicist to some depth such as 10 or 33 km, since the free depth was 5 +/- 23.5 km. For this paper, however, it was decided that the free depth was more useful for interpreting the event though it was obviously poorly constrained.

Finally, the Banda Sea earthquake of Nov 24, 1983 has an M_s magnitude listed despite the well-constrained depth of 199 km. Normally, M_s magnitudes are not listed for events whose depth (plus marginal confidence interval of depth, if applicable) is greater than 50 km. This was done to draw attention to a difficulty observed by NEIC geophysicists on many occasions—namely, that the magnitudes which are traditionally reported for large intermediate and deep earthquakes grossly underestimate the true size of the event. This problem arises because the traditional short-period m_b magnitude saturates at about magnitude 6.5 regardless of depth. It is also known that the uncorrected M_s magnitude underestimates the true size of intermediate and deep earthquakes, but as shown by the Banda Sea event, this underestimate is considerably less than the underestimate caused by reporting only the m_b magnitude. Therefore, until other magnitudes such as long-period m_b or moment magnitude are reported routinely, perhaps the uncorrected M_s magnitude is the best indicator available at the present time for the true size of large intermediate events, despite the limitations.

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References

Zirbes, M.D. and B.J. Moon, *Waveform Catalogue for IASPEI Events*, U.S. Geological Survey, Open-File Report 85-218.

TABLE 2

Size and Orientation of Semi-Major and Semi-Minor Axes of Horizontal Projection of Error Ellipsoid and Marginal Confidence Interval of Depth for IASPEI Events

Event		Semi-Major Axis Az (deg)	Semi-Major Axis Size (km)	Semi-Minor Axis Az (deg)	Semi-Minor Axis Size (km)	Dep CI Size (km)
1980						
Jan 01	16:42:40	167.7	4.7	77.7	2.4	G
May 25	16:33:44	F		F		F
Jun 29	07:20:07	133.9	2.8	223.9	1.9	1.9
Jul 29	14:58:41	26.8	4.0	116.8	2.2	D
Oct 10	12:25:23	151.7	3.0	61.7	2.3	D
Oct 24	14:53:34	210.7	3.6	120.7	3.0	4.4
Nov 08	10:27:33	F		F		F
Nov 23	18:34:53	17.1	3.0	107.1	2.1	D
1981						
Jan 18	18:17:26	110.1	4.5	200.1	2.8	4.2
Jan 23	21:13:48	39.2	4.3	129.2	2.9	G
Jul 06	03:08:34	203.2	4.0	113.2	3.6	4.6
Oct 28	04:34:17	145.1	7.7	55.0	6.5	G
Nov 22	15:05:22	72.4	3.6	162.4	2.5	3.8
Nov 27	17:21:45	56.7	2.8	146.7	2.1	D
1982						
Jan 03	14:09:50	148.7	5.1	58.7	3.2	G
Jan 09	12:53:51	F		F		F
Aug 05	20:32:48	210.6	6.1	120.6	4.9	23.5
Sep 06	01:47:03	117.3	3.4	207.3	2.8	3.5
Dec 13	09:12:48	56.5	3.7	146.5	3.0	3.8
1983						
Feb 13	01:40:11	187.0	4.6	97.0	3.1	6.0
Apr 03	02:50:02	223.5	3.8	133.5	2.5	4.0
Apr 04	02:51:34	211.8	3.6	121.8	2.8	5.2
Apr 11	08:18:10	160.5	3.1	70.5	2.8	4.3
Apr 18	10:58:48	199.0	3.8	109.0	2.3	5.0
May 02	23:42:37	F		F		F
May 26	02:59:59	121.4	2.8	211.4	1.8	3.1
Jun 01	01:59:54	162.4	3.9	72.4	2.9	D
Jun 02	20:12:50	68.0	4.2	158.0	2.8	D
Jun 09	18:46:02	170.7	4.0	80.7	2.1	4.4
Jun 21	06:25:26	105.9	2.4	15.9	1.7	G
Jun 24	09:06:45	216.3	3.2	126.3	2.8	3.5
Jul 12	15:10:04	F		F		F
Aug 06	15:43:52	21.8	3.2	111.8	2.0	G
Aug 17	10:55:54	144.5	3.6	54.5	2.5	8.3
Sep 07	19:22:05	F		F		F
Sep 12	15:42:08	19.1	3.1	109.1	2.0	D
Oct 04	18:52:12	74.6	5.3	164.6	3.7	3.6
Oct 09	11:25:38	77.6	5.0	167.6	3.3	4.0
Oct 17	19:36:22	167.8	4.4	77.8	2.3	D
Oct 22	04:21:35	29.2	8.5	119.2	5.9	D
Oct 30	04:12:28	188.0	3.1	98.0	1.9	3.6
Nov 16	16:13:00	F		F		F
Nov 24	05:30:36	66.1	4.5	156.1	3.5	D
Nov 30	17:46:00	19.9	4.4	109.9	3.3	G
Dec 22	04:11:29	142.1	3.8	52.1	2.6	4.6
Dec 30	23:52:39	190.0	3.3	100.0	1.8	2.6
1984						
Jan 01	09:03:37	141.4	3.9	51.4	2.4	1.5
Jan 01	09:03:41	146.5	3.1	56.5	2.2	0.9
Feb 07	21:33:20	37.3	4.8	127.3	3.8	D
Mar 05	03:33:50	76.6	2.6	166.6	2.2	0.9
Mar 19	20:28:38	10.1	3.2	100.1	1.6	D
Mar 24	09:43:59	134.6	3.5	224.6	2.3	3.9

Notes:
F - Furnished solution
D - Depth restrained by depth phases (pP)
G - Depth restrained by geophysicist

TABLE 3
PRELIMINARY DETERMINATION OF EPICENTERS

DAY	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 1980									
01	16 42 40.0	38.790 N	27.785 W	10 G	6.0	6.8	1.2	354	AZORES ISLANDS. At least 56 people killed, 400 or more injured and extensive damage (VIII) on Terceira. At least 4 people killed, some injured and extensive damage on San Jorge. Damage also reported on Graciosa.
MAY 1980									
25	16 33 44.1&	37.598 N	118.829 W	8 G	6.2	6.2		579	CALIFORNIA-NEVADA BORDER REGION. <GS>. Seven people injured, damage (VII) and rockslides in the Mammoth Lakes-Crowley Lake area, California. Rockslides also occurred in Yosemite National Park. Total damage estimated at 2 million dollars. Surface faulting and ground cracks observed in the epicentral area. Felt in an area of approximately 272,000 sq. km. of California and Nevada.
JUN 1980									
29	07 20 07.0	34.825 N	139.268 E	26	5.8	6.2	1.2	436	NEAR S. COAST OF HONSHU, JAPAN. Eight people injured and considerable damage (V JMA) and landslides on the Izu Peninsula and on Oshima. Felt (IV JMA) at Kumagaya, Mishimo, Toteyama, Tokyo and Yokohama; (III JMA) at Chichibu, Choshi, Irozaki, Kawaguchi-ko, Kofu and Utsunomiyo; (II JMA) at Gifu, Kakioka, Koruizawa, Maeboshi, Matsumoto, Mito, Nagoya, Onahama, Shizuoka and on Hachijo-jimo. Local tsunami generated in Sagami Bay. Maximum wave height (peak-to-trough) was 57 cm. at Okodo.
JUL 1980									
29	14 58 41.0	29.656 N	81.108 E	19 D	6.1	6.6	1.0	383	NEPAL One hundred fifty to 200 people killed, many injured and extensive damage in western Nepal. At least 13 killed, 40 injured and damage in the Pithoragarh area, India. Felt strongly at Kathmandu, Nepal and in the Delhi area, India.
OCT 1980									
10	12 25 23.8	36.213 N	1.395 E	11 D	6.3	7.2	1.2	430	ALGERIA. At least 5000 people killed, 9000 injured and extensive damage in the El Asnam area. Felt throughout northwestern Algeria and in southeastern Spain. Approximately 42 km. of surface rupture observed.
24	14 53 34.6	18.225 N	98.195 W	67	6.5	6.9	1.1	457	CENTRAL MEXICO. At least 300 people reported killed, many injured, approximately 150,000 homeless and extensive damage (IX) in central Mexico, mainly in the Huajuapan de Leon area Felt throughout central and southern Mexico and in Guatemala
NOV 1980									
08	10 27 33.0&	41.088 N	124.643 W	13 G	6.2	7.3		828	NEAR COAST OF NORTHERN CALIF. <GS>. Six people injured and damage (VII) in the Fields Landing area. One person injured at Fortuna. Slight damage (VI) at many communities along the coast from Rio Dell, California to Brookings, Oregon. Total damage estimated at 1.75 million dollars. Small landslides and liquefaction occurred along the Eel River and the Big Lagoon sand spit. Felt in an area of approximately 97,000 sq. km. from northern Oregon to the San Francisco Bay area, as well as in parts of western Nevada.
23	18 34 53.2	40.884 N	15.325 E	8 D	6.1	6.8	1.4	432	SOUTHERN ITALY. Over 3000 people killed, about 1900 missing, 7750 injured, 250,000 homeless and extensive damage.
JAN 1981									
18	18 17 26.0	38.649 N	142.836 E	48	6.2	7.0	1.2	416	NEAR EAST COAST OF HONSHU, JAPAN. Felt (IV JMA) at Miyako, Sendai and Morioka; (III JMA) at Ofunato, Ishinomaki, Fukushima, Hachinohe, Onahama, Akito, Shirakawo, Sakata and Utsunomiya; (II JMA) at Urakawa, Maebashi, Tokyo, Tateyama, Yokohama and Kofu. Local tsunami generated with maximum wave heights (peak to trough) 20 cm. at Urakawa and Ofunato, 15 cm. at Aikawa, 14 cm. at Hachinohe, 13 cm. at Hiroo and 12 cm. at Miyako and Ofunato.
23	21 13 48.1	30.967 N	101.134 E	10 G	5.8	6.8	1.2	306	SICHUAN PROVINCE, CHINA. About 150 people killed, 300 injured and extensive damage in the Dawu area.
JUL 1981									
06	03 08 34.9	22.333 S	171.670 E	123	6.5		1.1	402	LOYALTY ISLANDS REGION. Felt (IV) at Noumea and (II) at Koumac, New Caledonia. Probable multiple event. Strong phase observed on many stations about 11 seconds after P
OCT 1981									
28	04 34 17.0	31.363 S	110.694 W	10 G	6.1	6.3	1.3	198	EASTER ISLAND REGION
NOV 1981									
22	15 05 22.2	18.750 N	120.829 E	36	6.3	6.5	1.1	435	LUZON, PHILIPPINE ISLANDS. Damage in the Bacarra-Laoag area. Felt throughout western Luzon.
27	17 21 45.3	42.877 N	131.247 E	544 D	5.8		1.2	572	E USSR-N.E. CHINA BORDER REG.
JAN 1982									
03	14 09 50.5	0.945 S	21.877 W	10 G	5.8	6.5	1.0	300	CENTRAL MID-ATLANTIC RIDGE
09	12 53 51.8&	46.984 N	66.656 W	10 G	5.8	5.4		393	NEW BRUNSWICK. <SPEC>. Slight damage (VI) in parts of New Brunswick and at Bridgewater, Caribou, Easton,

TABLE 3-2

											Haynesville, Monticello, Presque Isle, Oakfield and Stockholm, Maine. Felt in the Maritime Provinces, parts of Quebec and throughout much of New England.
AUG	1982										
05	20	32	48.9	12.573 S	165.968 E	5	6.0	7.1	1	4	257	SANTA CRUZ ISLANDS
SEP	1982										
06	01	47	03.8	29.414 N	140.397 E	185	6.5		1.3		599	SOUTH OF HONSHU, JAPAN. Felt (III JMA) at Tateyama and Fukushimo. Felt (II JMA) on Chichi-jimo, Hachijo-jima and Oshimo and at Yokohama, Choshi, Tokyo, Kumagaya, Mito, Utsunomiya, Onahamo, Kakioka, Sendai, Morioka, Miyoko and Ofunoto.
DEC	1982										
13	09	12	48.5	14.707 N	44.278 E	3	6.0	5.9	1.2		372	WESTERN ARABIAN PENINSULA. Unconfirmed reports of 2800 people killed, 1500 injured, 700,000 homeless and about 300 villages destroyed or badly damaged in Yemen. Maximum intensity VIII in the Dawran-Risobah area. Felt throughout Yemen and in the Najran area, Soudi Arabia. Landslides occurred in the epicentral area, as well as extensional ground cracks trending north-northwest in zones up to 15 km. in length. This is the first instrumentally located hypocenter in the Dhamar region of Yemen.
FEB	1983										
13	01	40	11.9	39.994 N	75.210 E	20	5.7	6.3	1.4		283	SOUTHERN XINJIANG, CHINA. Several people injured and moderate damage in the Wuqia area. Felt (IV) in the Andizhan-Naryn area, USSR. Felt also (III) at Frunze and (II) at Tashkent, USSR.
APR	1983										
03	02	50	02.0	8.699 N	83.148 W	46	6.4	7.3	1.0		370	COSTA RICA. Five people died from heart attacks, one person killed by a collapsing house, and several people injured in southeastern Costa Rica. Also felt strongly in southwestern Panama.
04	02	51	34.3	5.739 N	94.740 E	78	6.7		1.1		494	NORTHERN SUMATERA. About 100 people injured and damage in the Banda Aceh area. Felt at Pinang, Malaysia.
11	08	18	10.1	10.426 N	62.775 W	40	6.1	5.9	1.1		414	NEAR COAST OF VENEZUELA. Felt (V) on Trinidad. Felt in the northeastern Venezuela states of Sucre, Monagas, Anzoategui and Bolivar. Also felt in the eastern suburbs of Caracas.
18	10	58	48.4	27.748 N	62.051 E	40	6.6	6.4	1.1		420	SOUTHERN IRAN. Felt strongly in southeastern Iran. Also felt at Karachi, Pakiston.
MAY	1983										
02	23	42	37.7&	36.219 N	120.317 W	10 G	6.3	6.5			569	CENTRAL CALIFORNIA. <GS>. Forty-five people injured and estimated 31 million dollars damage in the Coalinga area. Maximum intensity VIII. Some damage at Avenal and other surrounding communities. Felt from Los Angeles to Sacramento and from San Francisco to Reno.
26	02	59	59.4	40.465 N	139.133 E	23	6.8	7.8	1.2		590	NEAR WEST COAST OF HONSHU, JAPAN. One hundred four people killed, 163 injured and extensive damage to dwellings, roads and vessels caused by earthquake and a tsunami along the Japan Sea coast from southern Hokkaido to the Niigata area, Honshu. Many of the casualties and much of the damage occurred on the Oga Peninsula. Tsunami damage occurred as far away as Yamaguchi Prefecture in southwestern Honshu, along the Japan Sea coast of USSR, and along the eastern and southern coasts of South Korea, where 3 additional people were killed. Felt (V JMA) at Akita, Fukauro and Mutsu. Felt on Hokkaido and throughout northern and central Honshu. Estimated tsunami heights were 14 m. at Minehama, Honshu, 2-6 m. along southern Hokkaido and northern Honshu, up to 8 m. along the coast of USSR, and 4 m. along the coast of South Korea.
JUN	1983										
01	01	59	54.6	17.035 S	174.601 W	180 D	6.3		0.9		461	TONGA ISLANDS. Felt (II) at Apia, Samoa Islands.
02	20	12	50.2	9.501 S	71.219 W	593 D	5.9		1.0		417	PERU-BRAZIL BORDER REGION
09	18	46	02.9	51.441 N	174.120 W	34	6.2	6.0	1.0		477	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
21	06	25	26.4	41.339 N	139.085 E	5 G	6.7	7.0	1.2		589	HOKKAIDO, JAPAN REGION. Some damage in northern Honshu. Felt (IV JMA) at Aomori, Mori, Fukaura and Esashi; (III JMA) at Hakodate, Akita, Muroran, Hachinohe, Morioka and Mutsu; (II JMA) at Suttsu, Kutchan, Otaru, Miyako, Urokowo, Sakato, Onahamo and Tomokomai. One meter tsunami at Akito, Noshiro and Wokami. Fifty cm. tsunami reported in many areas along the west coast of northern Honshu.
24	09	06	45.4	24.205 N	122.446 E	42	6.2	6.7	1.1		362	TAIWAN REGION. Felt on Taiwan. Felt (III JMA) on Iriomote-jimo and (II JMA) on Ishigaki-shima and Yonaguni-jimo, Ryukyu Islands.
JUL	1983										
12	15	10	04.3&	61.028 N	147.147 W	18 G	6.3	6 4			518	SOUTHERN ALASKA <AGS>. Damage (VI) at Valdez. Felt (V) at Chitino, Chugiak, Cooper Landing, Copper Center, Cordova, Fort Richardson, Gakono, Girdwood, Moose Pass, Skwentno, Sutton, Whittier and Willow. Felt (IV) at Anchorage, Palmer and Seward. Felt (III) at Fairbanks and Yokutat. Also felt (III) at Whitehorse, Yukon Territory.
AUG	1983										
06	15	43	52.5	40.130 N	24.721 E	10 G	6.2	7.0	1.3		385	AEGEAN SEA. Slight damage (VI) on Limnos and to four monasteries in the Mount Athos area. Also felt (VI) on Thasos and Lesvos. Felt (V) throughout much of northern Greece. Felt strongly in southern Bulgaria and northwestern Turkey.
17	10	55	54.5	55.851 N	161.297 E	66	6.6	6.8	1.2		530	NEAR EAST COAST OF KAMCHATKA. Felt (IV-V) at Petropavlovsk-Komchatskiy.

TABLE 3-3

SEP 1983											
07	19	22	05.0&	60.978	N	147.315	W	30 G	6.3 6.2	534	SOUTHERN ALASKA. <AGS>. Slight damage (VI) at Valdez. Felt (V) at Anchorage, Chugiok, Copper Center, Cooper Landing, Homer, Moose Poss, Palmer, Soldotna, Sutton, Wasilla and Willow.
12	15	42	08.5	36.536	N	71.122	E	209 D	6.3 1.0	455	AFGHANISTAN-USSR BORDER REGION. Slight damage in the Koshmir Valley. Felt (V) at Khorog, Pyandzh, Shaartuz, Dusti and Gissor; (IV-V) at Kulyab, Nurek, Dushanbe, Ordzhonikidzeabad, Tashkent, Garm, Ura-Tyube, Pendzhikent and Leninabad; (IV) at Ishkashim, Rushan, Kalininabad, Kurgan-Tyube, Samarkand and Andizhon; (III-IV) at Obigarm and Chimkent; (III) at Dzhirgotal and Noryn; (II-III) at Dzhambul and Talgar; and (II) at Frunze, USSR. Also felt in the Peshawar-Lahore area, Pakiston.
OCT 1983											
04	18	52	12.1	26.523	S	70.571	W	9	6.3 7.3 1.1	348	NEAR COAST OF NORTHERN CHILE. At least 5 people killed, 24 injured and extensive damage (VIII) in the Copiapo-Chanorol areo. A 1.5 meter uplift near Chanorol was reported and some roads were blocked by landslides. Minor tsunami recorded at Valparaiso. Felt in Chile from Iquique to Santiago. Felt in Argentino and at La Paz, Bolivio and Sao Paulo, Brazil. This appears to be o multiple event.
09	11	25	38.8	26.141	S	70.521	W	7	5.9 6.3 1.1	331	NEAR COAST OF NORTHERN CHILE. Felt (V) at Copiapo, (IV) ot Chonaral and (III) in the Antafagasta area.
17	19	36	22.4	37.602	N	17.502	W	16 D	6.1 6.4 1.1	372	NORTH ATLANTIC OCEAN
22	04	21	35.0	60.663	S	25.467	W	24 D	6.5 6.8 1.3	145	SOUTH SANDWICH ISLANDS REGION
30	04	12	28.5	40.337	N	42.164	E	21	6.1 6.9 1.2	406	TURKEY. At leost 1342 people killed, 534 seriausly injured, more thon 25,000 homeless and 50 villages completely destroyed in Kars and Erzurum Pravinces.
NOV 1983											
16	16	13	00.0&	19.430	N	155.454	W	12 G	6.4 6.7	474	HAWAII. <HVO-P>. Six people injured and considerable damage (VIII) in parts of Kapapalo, Hawaii Volcanoes National Park, Volcono, Kau and Puna districts and Hilo. Landslides and rockfolls occurred, telephone and electrical service disrupted and water mains broken in severol areas of the island. Total damage estimated at 6 to 6.5 million dallors. Also felt on Maui, Oahu and Kouoi.
24	05	30	36.4	7.444	S	128.137	E	199 D	6.5 7.0 1.2	414	BANDA SEA. Felt on Alor, Flares, Sumbo ond Timor. Also felt in Australia from Dorwin to Perth. Nate the large Ms magnitude for this event, despite the well-canstroined depth of 199 km.
30	17	46	00.7	6.821	S	72.107	E	10 G	6.7 7.5 1.2	439	CHAGOS ARCHIPELAGO REGION. Some damage (VI) to buildings and piers on Diego Garcia. Five foot rise in wove height in the lagoon and significant wave damage near the southeastern tip of the island. Forty cm. tsunami at Victorio, Seychelles Large zone of discolored seo woter observed 35 to 40 nautical miles northwest of Diego Garcio.
DEC 1983											
22	04	11	29.0	11.862	N	13.537	W	10	6.4 6.3 1.0	412	NORTHWEST AFRICA. At least 443 people killed, 200 reported missing, 150 seriously injured and extensive damage in the Gaoul-Koumbia oreo, Guinea. Felt in Guineo-Bissau, Senegal, The Gambio and Sierro Leone.
30	23	52	39.1	36.397	N	70.752	E	207	6.7 1.1	536	HINDU KUSH REGION. Twelve people killed, 483 injured ond extensive domoge in the Kabul and Samangon areas, Afghanistan. Fourteen people killed, hundreds injured and moderate damage in the Peshawar area, Pakiston. Same damage (VII) in Tajikistan, USSR. Felt in much of northwestern Afghanistan, northern Pakistan, northern India and in Tajikistan, Uzbekistan and Kirghizio, USSR.
JAN 1984											
01	09	03	37.4	33.697	N	136.843	E	380	5.3 1.2	346	NEAR S. COAST OF SOUTHERN HONSHU. Foreshock. This event was not included on the original IASPEI list, but is listed here os an aid to interpreting the main event which follows. The magnitude shawn for this event may be high but the event can be seen clearly on stations in the United States as far away as 90 degrees.
01	09	03	41.3	33.681	N	136.793	E	383	6.6 0.9	432	NEAR S. COAST OF SOUTHERN HONSHU. Felt (IV JMA) at Tateyamo, Yokohamo, Tokyo, Utsunomiya and Onahamo; (III JMA) on Oshimo and ot Chichibu, Kumagaya, Choshi, Mito, Shirakawo, Chiba, Kokioka, Nikko, Fukushima and Sakota. Felt from Hakkoido to northeastern Kyushu and on the Bonin Islands.
FEB 1984											
07	21	33	20.3	9.998	S	160.477	E	11 D	6.7 7.5 1.4	376	SOLOMON ISLANDS. Damage in southern Guadalcanal and some landslides reported. Felt throughout the Solomon Islands, (VI) at Honiaro and (III) at Rabaul, New Britain
MAR 1984											
05	03	33	50.8	8.148	N	123.775	E	646	6.6 1.0	600	MINDANAO, PHILIPPINE ISLANDS. Felt (II RF) on Mindanoo, Leyte and Ponoy.
19	20	28	38.2	40.341	N	63.359	E	15 D	6.5 7.0 1.0	486	UZBEK SSR. At leost 100 people injured and extensive damage (IX) in the Gazli areo. Damage (VII-VIII) ot Dzhongeldy and (VII) in the Bukhora area. Felt (VII) at Chardzhou; (VI) at Navoi and Mary; (V-VI) at Samorkand: (V) at Dzhizok ond Ashkhabad; (IV) at Tashkent and Dushanbe, (III-IV) ot Andizhan; (III) at Leninabad, Ura-Tyube, Chimkent and Dzhambul; (II-III) at Kulyab, Khorog ond Frunze. Felt also at Mashhad, Iran.

TABLE 3-4

24	09 43 59.3	44.197 N	148.164 E	18	6.3	7.1	1.1	518	KURIL ISLANDS. Felt (V) at Yuzhno-Kurilsk and (IV) on Shikotan Felt (II JMA) at Nemuro, Obihiro and Urakowa, Hokkoido and at Hochinohe ond Miyako, Honshu. Fourteen cm. tsunomi ot Nemuro, Hokkaido. Possible multiple event

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS TABLE

Abbreviotions in Heoding

MB – Body wove magnitudes.
Msz – Vertical surface wave magnitudes.
UTC – Coordinated Universal Time. HR MN SEC – Hour, minute, second.
SD – Standard Deviation from the arithmetic meon of residuols.
No. Sta. – Number of stations reporting P ar PKP phoses used in computation.

Symbols and Abbreviatians Used in Comments

AGS Alasko Seismic Project, U.S. Geological Survey, Menlo Park, Colifornio.
GS U.S. Geological Survey, Menlo Pork, California.
HVO Howaiian Volcano Observotary.
JMA Japan Meteorological Agency (generally used to indicate 7-point Japanese Intensity Scole).
RF Rossi-Forel Intensity Scole.
SPEC An NEIS solution bosed on use of dense local networks, a local crustal model, or other methads not routinely applied in calculating the hypocenter parameters.

Roman Numerols Used to indicote intensity (when not followed by RF ar JMA they refer to the Modified Mercalli Scole or ony 12-point intensity scale closely related to it).

° ' " Geographic degrees, minutes, seconds.

-P Supplied hypocenter is a preliminory computotion.

Any additianol 3 to 5 letter codes enclosed in porentheses or ongle brackets refer to individual station Codes. These cades may be found in Geologicol Survey Circular 791, Seismograph Station Codes and Characteristics (1978).

Symbols Following Depth

N Indicates the depth was restrained at 33 km far earthquakes whose character on seismograms indicates a shollow focus but whose depth is not satisfactorily determined by the dota.

D Indicates the depth was restrained by the computer progrom based an 2 or more compotible pP phases ond/or unidentified secondary arrivals used as pP.

G Indicotes the depth was restrained by a geophysicist.

Symbols Following Origin Time

& Indicates that parameters of the hypocenter were supplied or determined by o computational procedure not normolly used by the Notional Earthquake Informotion Service (NEIS). The source or nature of the determinotion is indicated by a 2 to 5 letter cade enclosed by angle brackets and oppeoring in the first line of comments. A "-P" appended to the code indicates thot the computation is preliminary. These codes are included with the list of abbreviations above

COMPARISON OF RATINGS OF INTENSITY SCALES APPEARING IN PRELIMINARY DETERMINATION OF EPICENTERS

U.S.A. Modified Mercalli (M.M.), 1931	Japanese, 1950 (JMA)	Rossi-Forel, 1873 (RF)	European (Mercolli – Concani-Sieberg), 1917
I	0	I	I
II	I	I-II	II
III	II	III	III
IV	II-III	IV-V	IV
V	III	V-VI	V
VI	IV	VI-VII	VI
VII	IV-V	VIII-	VII
VIII	V	VIII+-IX	VIII
IX	V-VI	IX+	IX
X	VI	X	X
XI	VII	X	XI
XII	VII	X	XII

TABLE 3-5

TRAVEL-TIME TABLES

In general, all hypocenters have been computed based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Some other earth model or computational procedure may have been used for those hypocenters which have been indicated by an ampersand (&) following the origin time.

NEIS MAGNITUDES

All magnitudes are NEIS magnitudes unless otherwise indicated. Average magnitudes are computed by a 25% trimmed mean as described by Rosenberger, J. L. and Gasko, M., 1983, "Comparing location estimators: trimmed means, medians, and trimean" in Understanding Robust and Exploratory Data Analysis, ed. Hoaglin, D.C., Mosteller, F., and Tukey, J. W., John Wiley, New York.

Ms These surface wave magnitudes are computed from the I.A.S.P.E.I formula:

$$Ms = \text{Log}(A/T) + 1.66 \text{ Log } D + 3.3$$

where:

A is the maximum ground amplitude in micrometers (microns) of the vertical component of the surface wave within the period range $18 \leq T \leq 22$.

T is the period in seconds.

D is the distance in geocentric degrees (station to epicenter) and $20^{\circ} \leq D \leq 160^{\circ}$.

No depth corrections are applied, and Ms magnitudes are not generally computed for depths greater than 50 km. The Ms value published is the average of the individual station magnitudes from reported T and A data.

If the uncertainty of the computed depth is considered great enough that the depth could be less than 50 km, an MS value may still be published, computed by the I.A.S.P.E.I. formula and not corrected for depth.

In general, the Ms magnitude is more reliable than the MB magnitude as a means of yielding the relative "size" of a shallow-focus earthquake.

MB These compressional body wave (P-wave) magnitudes are computed according to the formula:

$$MB = \text{Log}(A/T) + Q(D,h)$$

defined by Gutenberg and Richter (1956) except that T, the period in seconds, is restricted to $0.1 \leq T \leq 3.0$ and A, the ground amplitude in micrometers, is not necessarily the maximum in the P group. Q is a function of distance (D) and depth (h) where $D \geq 5^{\circ}$.

REFERENCES

Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: Annali di Geofisica, v. 9, no. 1, p. 1-15.

Richter, C. F., 1935, An instrumental earthquake scale: Bulletin of the Seismological Society of America, v. 25, p. 1-32.

Figure 1

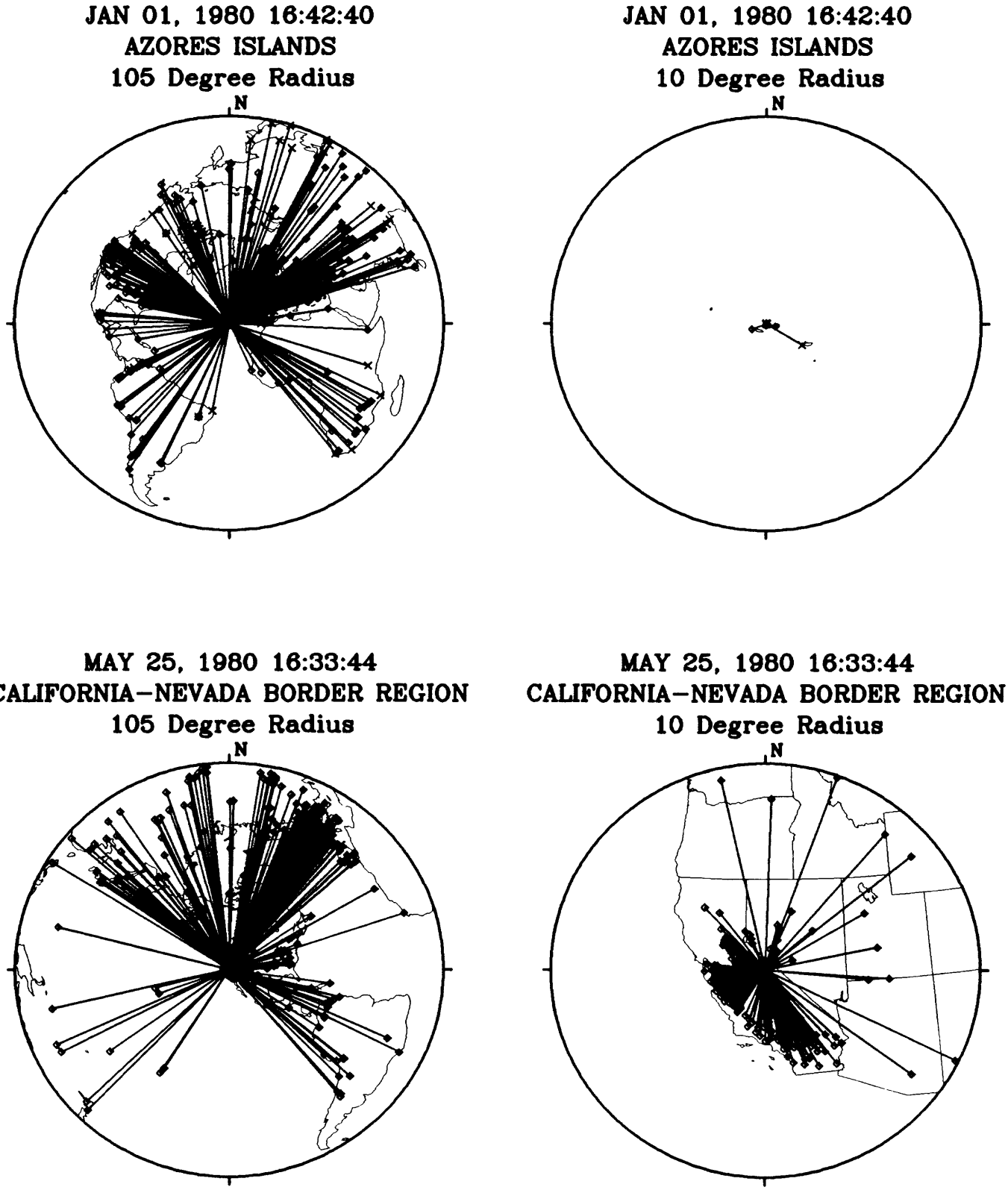
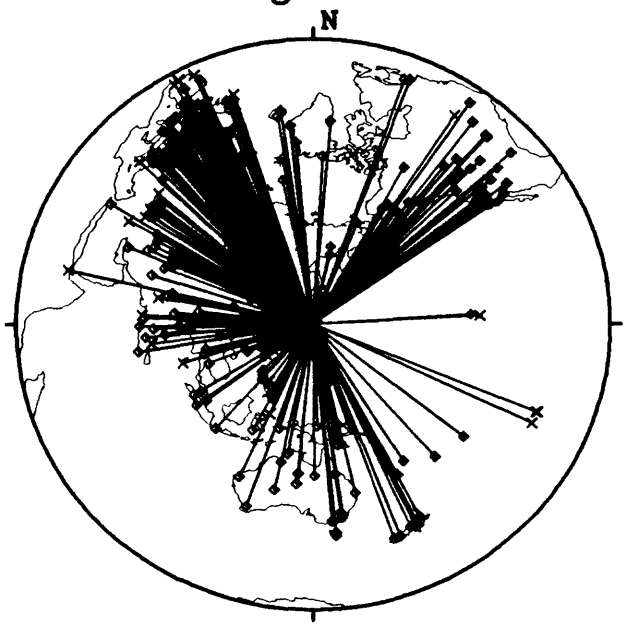
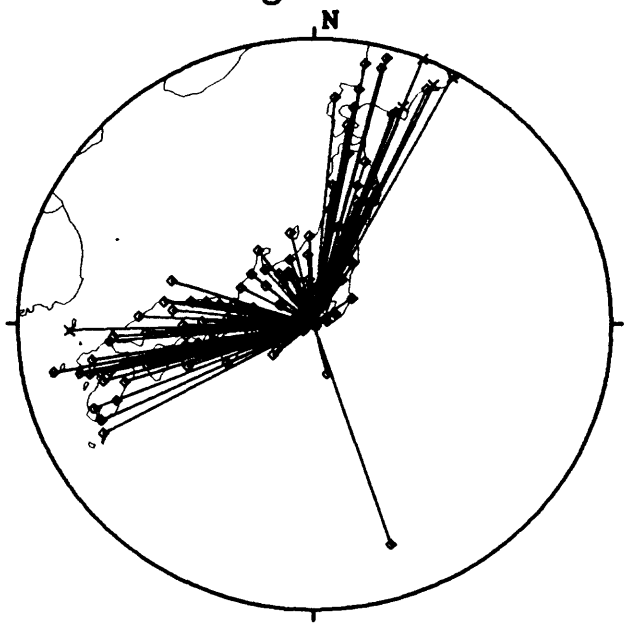

JAN 01, 1980 16:42:40
AZORES ISLANDS
105 Degree Radius
N
JAN 01, 1980 16:42:40
AZORES ISLANDS
10 Degree Radius
N
MAY 25, 1980 16:33:44
CALIFORNIA–NEVADA BORDER REGION
105 Degree Radius
N
MAY 25, 1980 16:33:44
CALIFORNIA–NEVADA BORDER REGION
10 Degree Radius
N

Figure 2

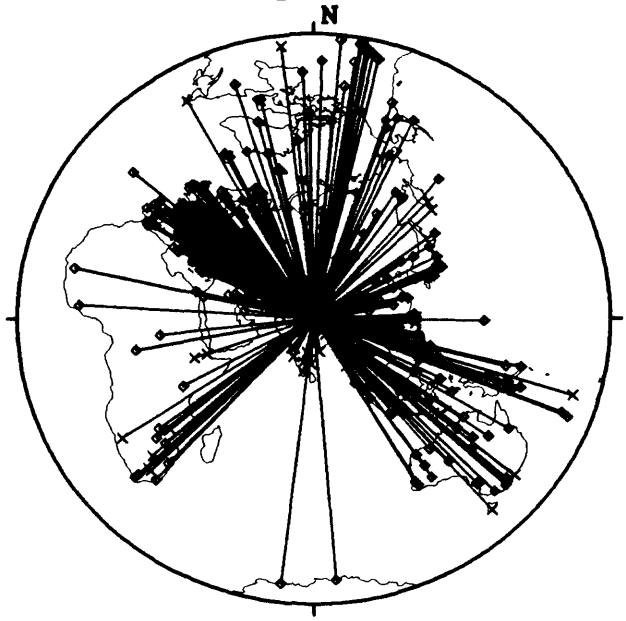
JUN 29, 1980 07:20:07
NEAR S. COAST OF HONSHU, JAPAN
105 Degree Radius



JUN 29, 1980 07:20:07
NEAR S. COAST OF HONSHU, JAPAN
10 Degree Radius



JUL 29, 1980 14:58:41
NEPAL
105 Degree Radius



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10 Degree Radius

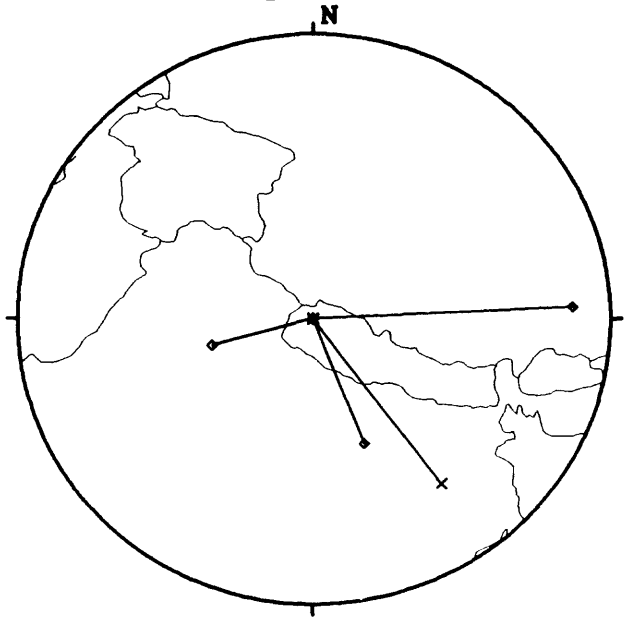


Figure 3

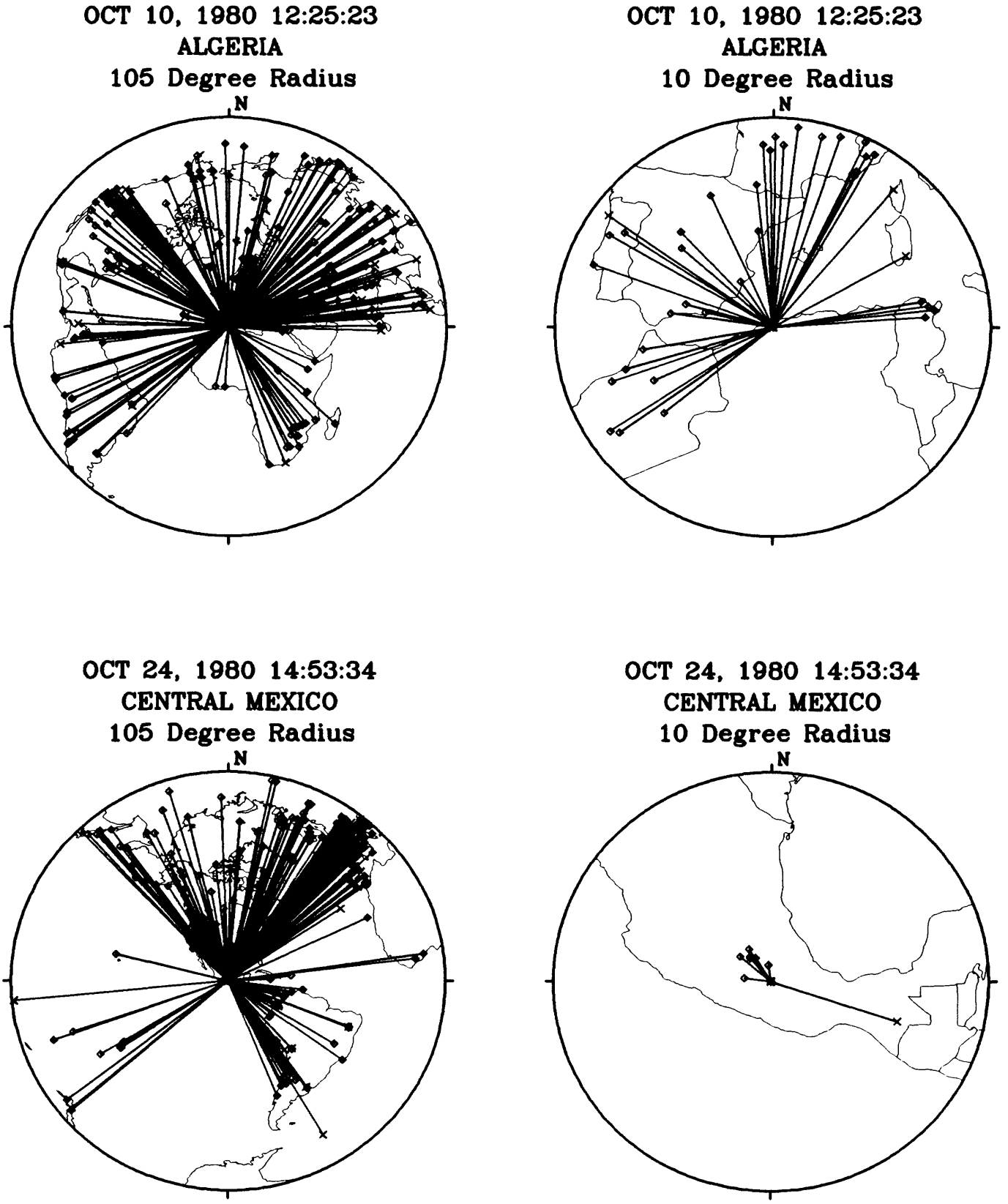
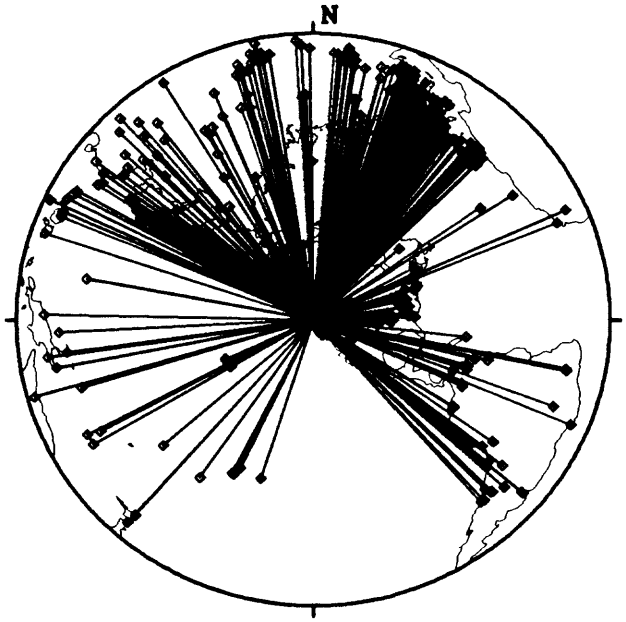

OCT 10, 1980 12:25:23
ALGERIA
105 Degree Radius
N
OCT 10, 1980 12:25:23
ALGERIA
10 Degree Radius
N
OCT 24, 1980 14:53:34
CENTRAL MEXICO
105 Degree Radius
N
OCT 24, 1980 14:53:34
CENTRAL MEXICO
10 Degree Radius
N

Figure 4

NOV 08, 1980 10:27:33
NEAR COAST OF NORTHERN CALIF.
105 Degree Radius



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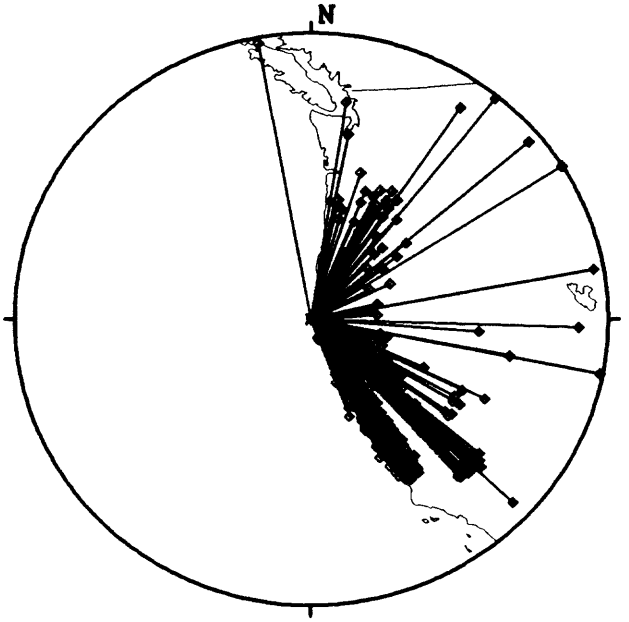
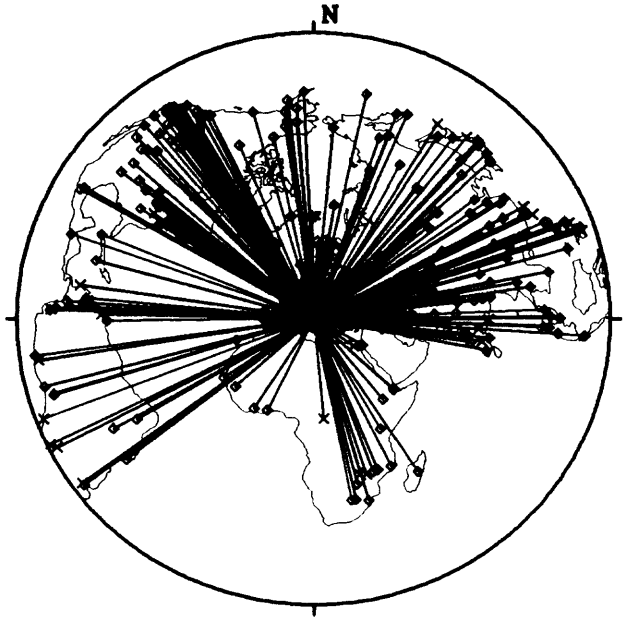
NEAR COAST OF NORTHERN CALIF.
10 Degree Radius



NOV 23, 1980 18:34:53
SOUTHERN ITALY
105 Degree Radius



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SOUTHERN ITALY
10 Degree Radius

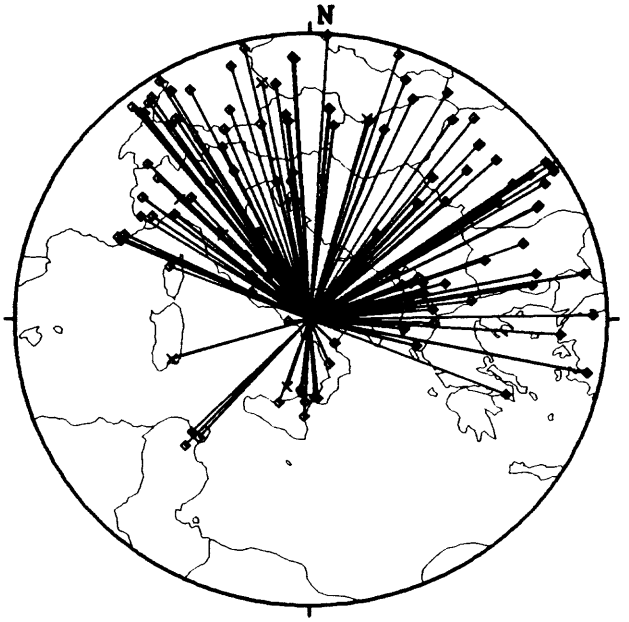
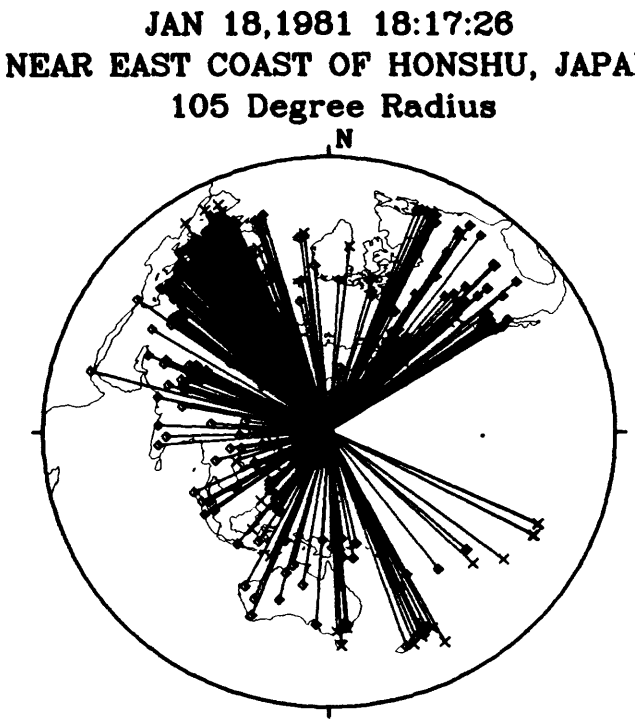
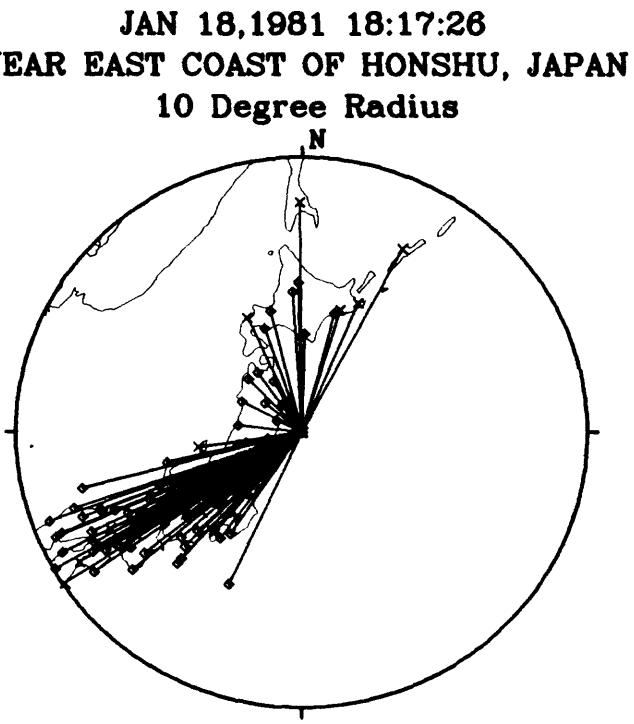


Figure 5


JAN 18,1981 18:17:26
NEAR EAST COAST OF HONSHU, JAPAN
105 Degree Radius
N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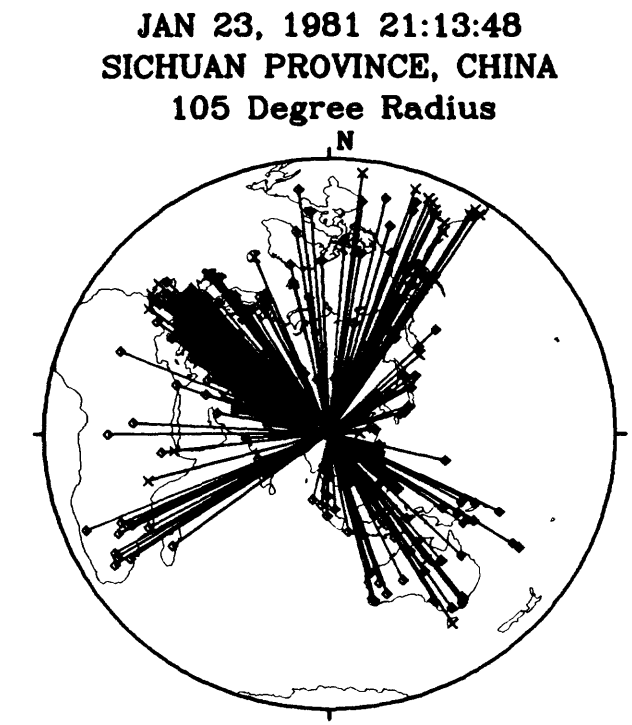
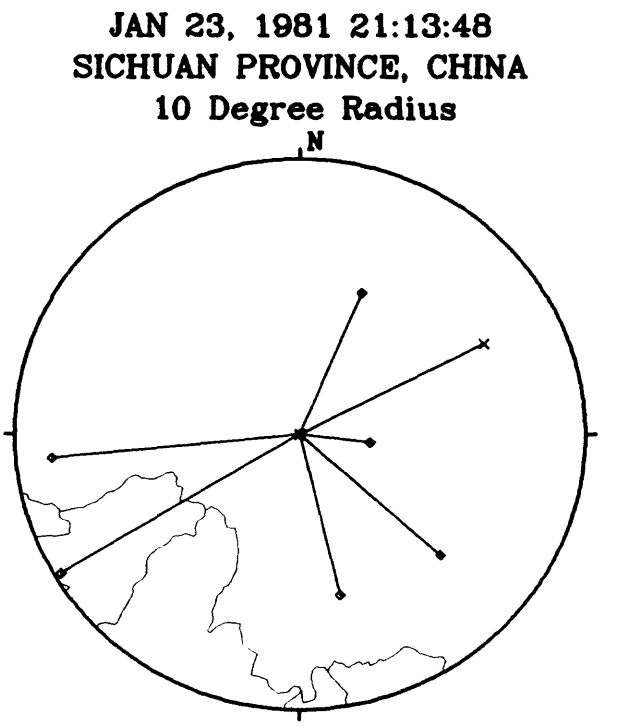
NEAR EAST COAST OF HONSHU, JAPAN
10 Degree Radius
N


JAN 23, 1981 21:13:48
SICHUAN PROVINCE, CHINA
105 Degree Radius
N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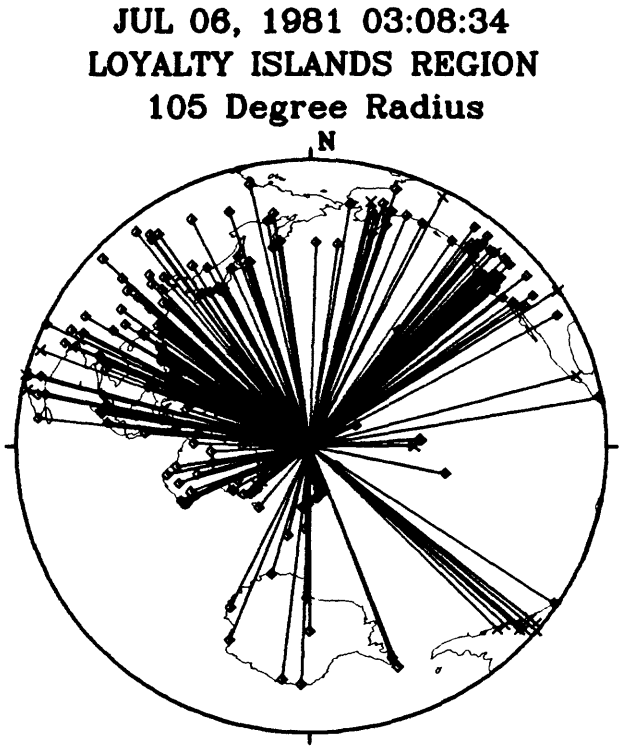
SICHUAN PROVINCE, CHINA
10 Degree Radius
N

Figure 6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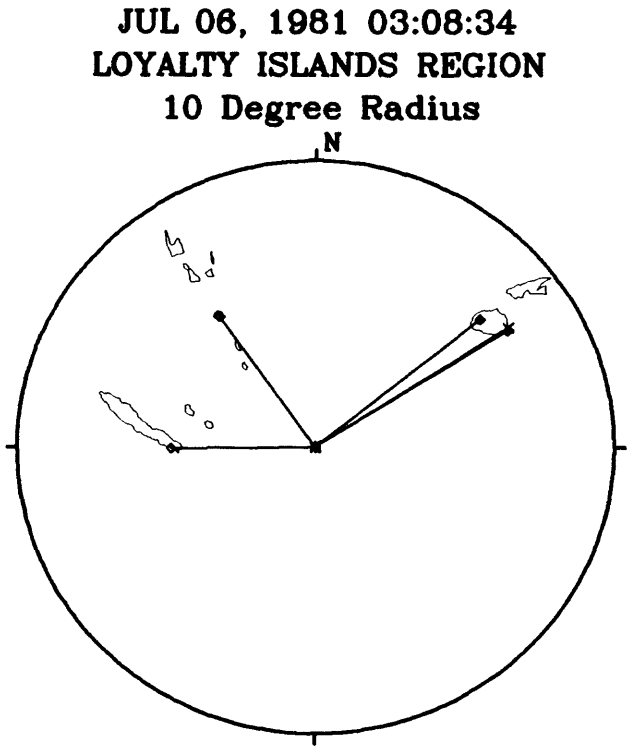
LOYALTY ISLANDS REGION
105 Degree Radius
N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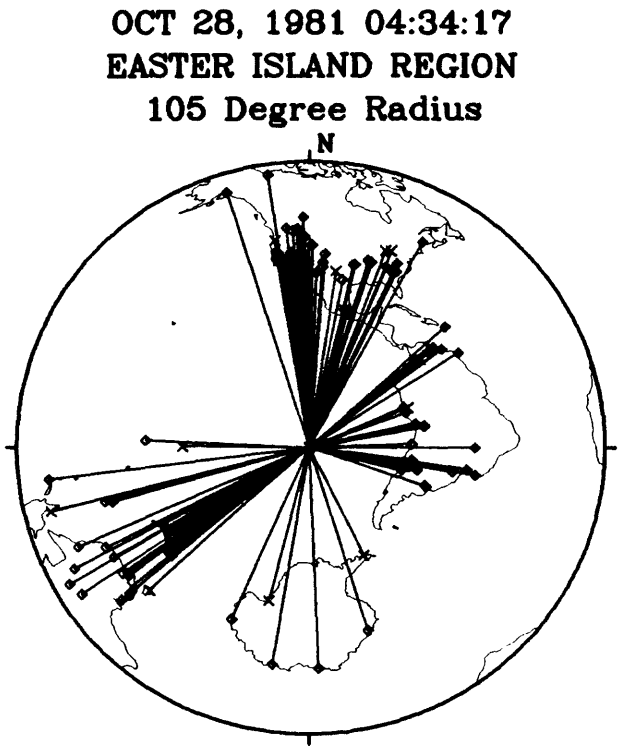

OCT 28, 1981 04:34:17
EASTER ISLAND REGION
105 Degree Radius
N

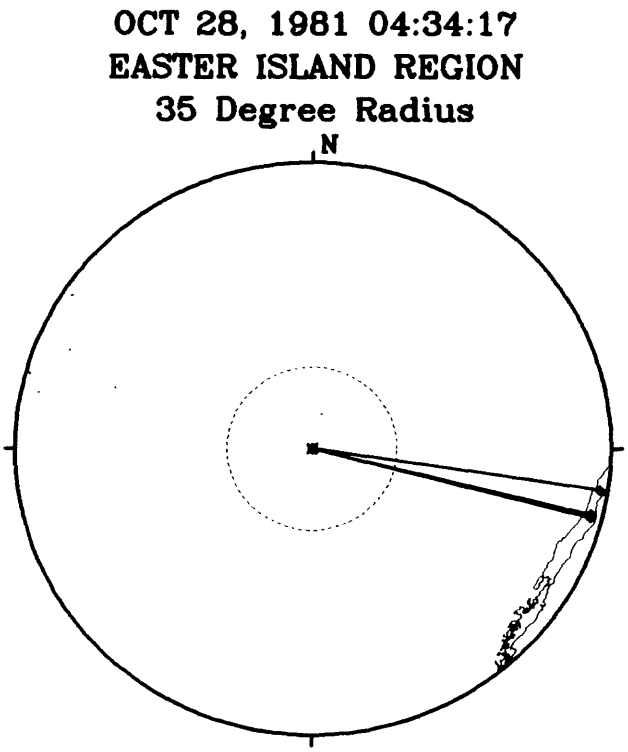
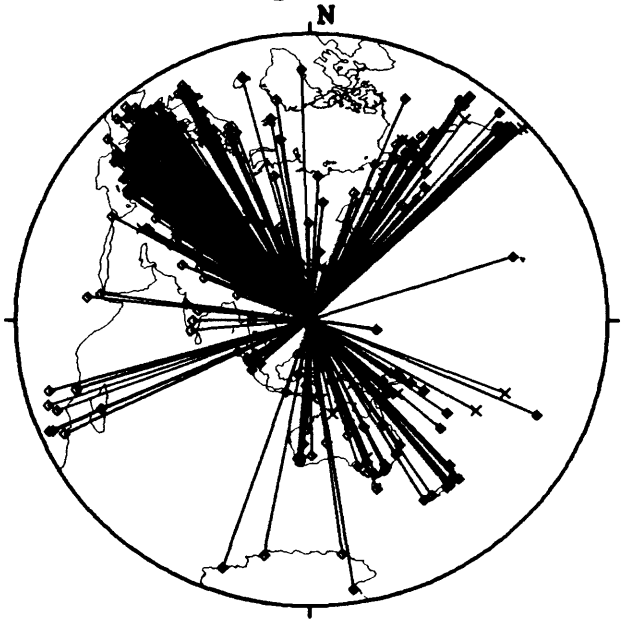
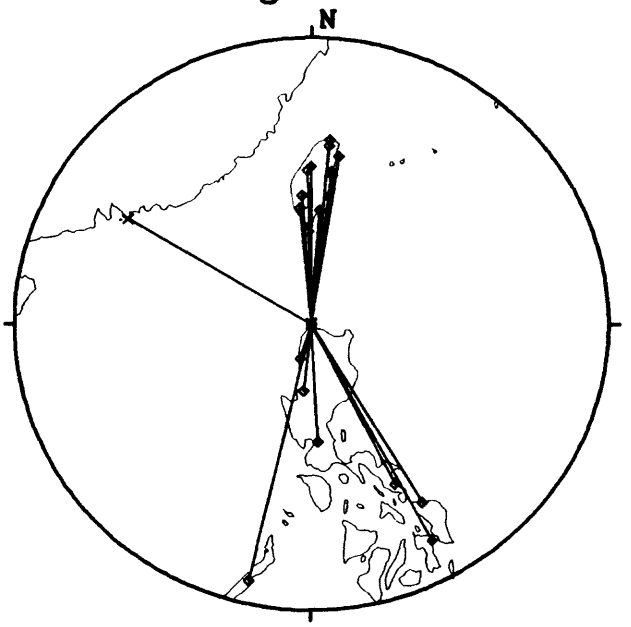

OCT 28, 1981 04:34:17
EASTER ISLAND REGION
35 Degree Radius
N

Figure 7

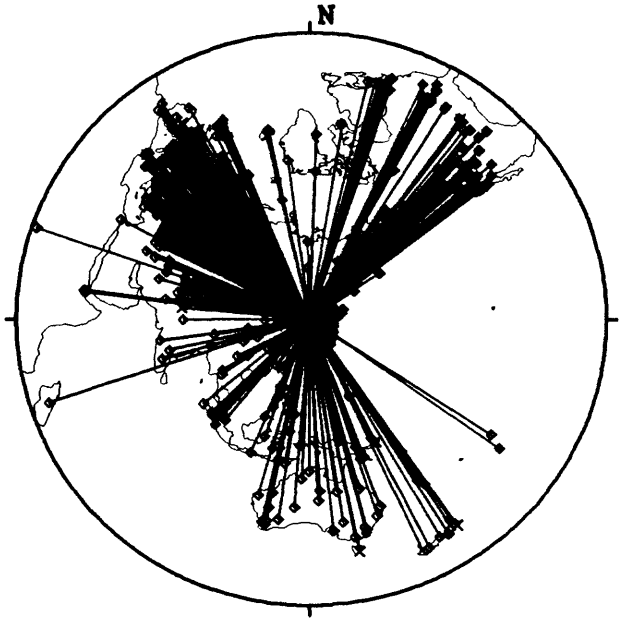
NOV 22, 1981 15:05:22
LUZON, PHILIPPINE ISLANDS
105 Degree Radius



NOV 22, 1981 15:05:22
LUZON, PHILIPPINE ISLANDS
10 Degree Radius



NOV 27, 1981 17:21:45
E. USSR–N.E. CHINA BORDER REG.
105 Degree Radius



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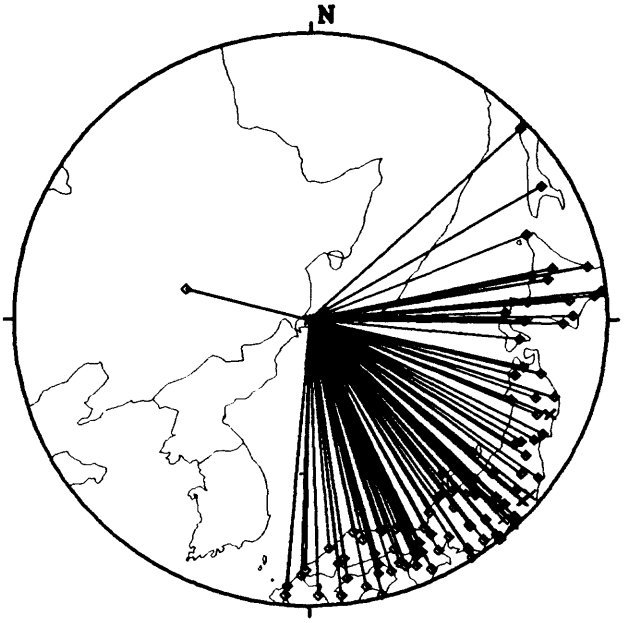
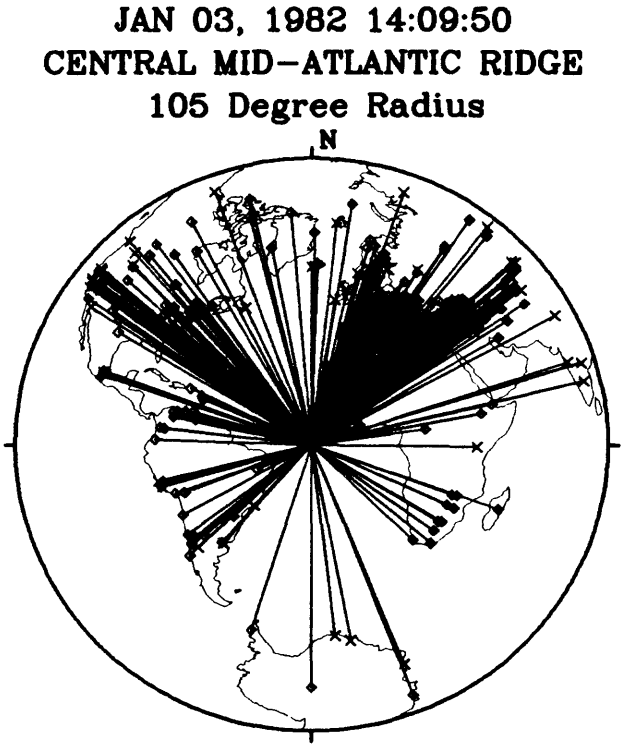
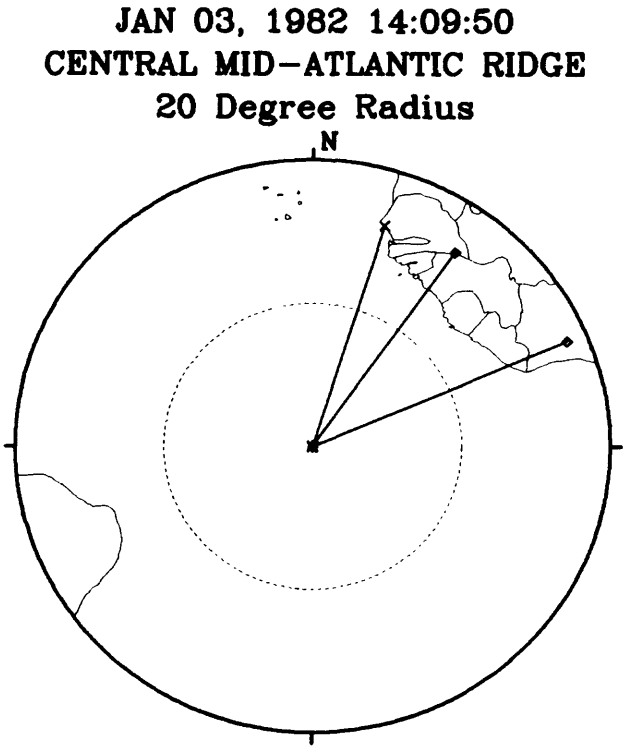
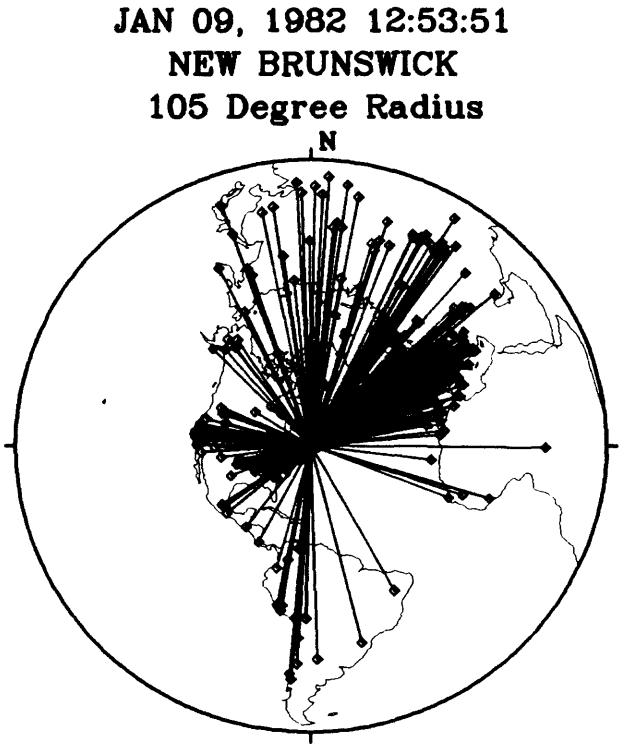


Figure 8


JAN 03, 1982 14:09:50
CENTRAL MID-ATLANTIC RIDGE
105 Degree Radius
N


JAN 03, 1982 14:09:50
CENTRAL MID-ATLANTIC RIDGE
20 Degree Radius
N


JAN 09, 1982 12:53:51
NEW BRUNSWICK
105 Degree Radius
N

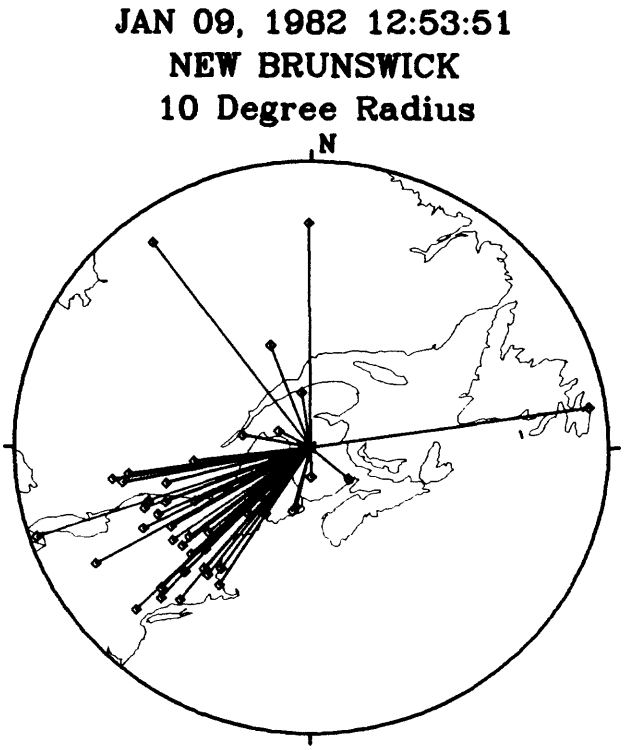

JAN 09, 1982 12:53:51
NEW BRUNSWICK
10 Degree Radius
N

Figure 9

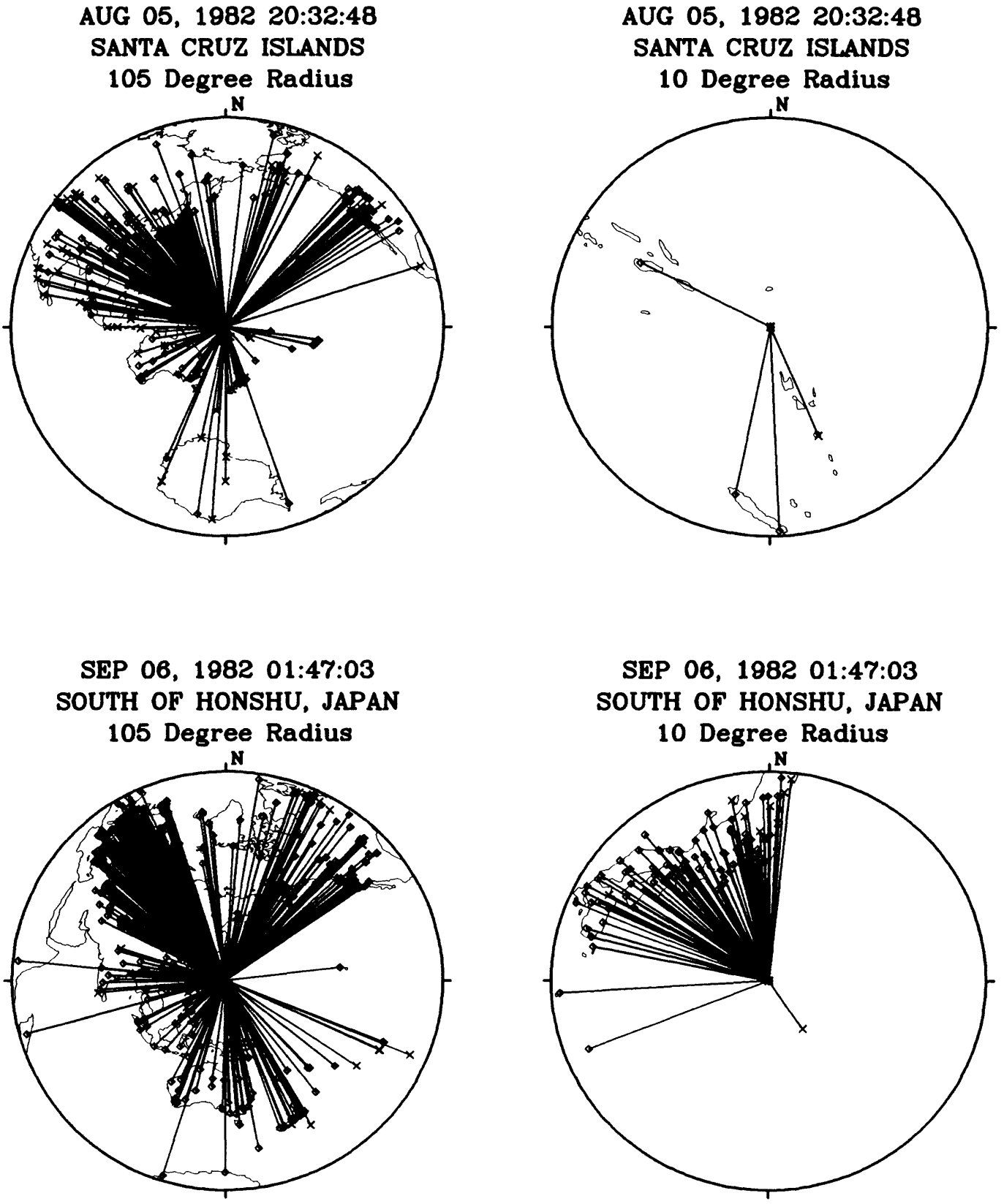

AUG 05, 1982 20:32:48
SANTA CRUZ ISLANDS
105 Degree Radius
N
AUG 05, 1982 20:32:48
SANTA CRUZ ISLANDS
10 Degree Radius
N
SEP 06, 1982 01:47:03
SOUTH OF HONSHU, JAPAN
105 Degree Radius
N
SEP 06, 1982 01:47:03
SOUTH OF HONSHU, JAPAN
10 Degree Radius
N

Figure 10

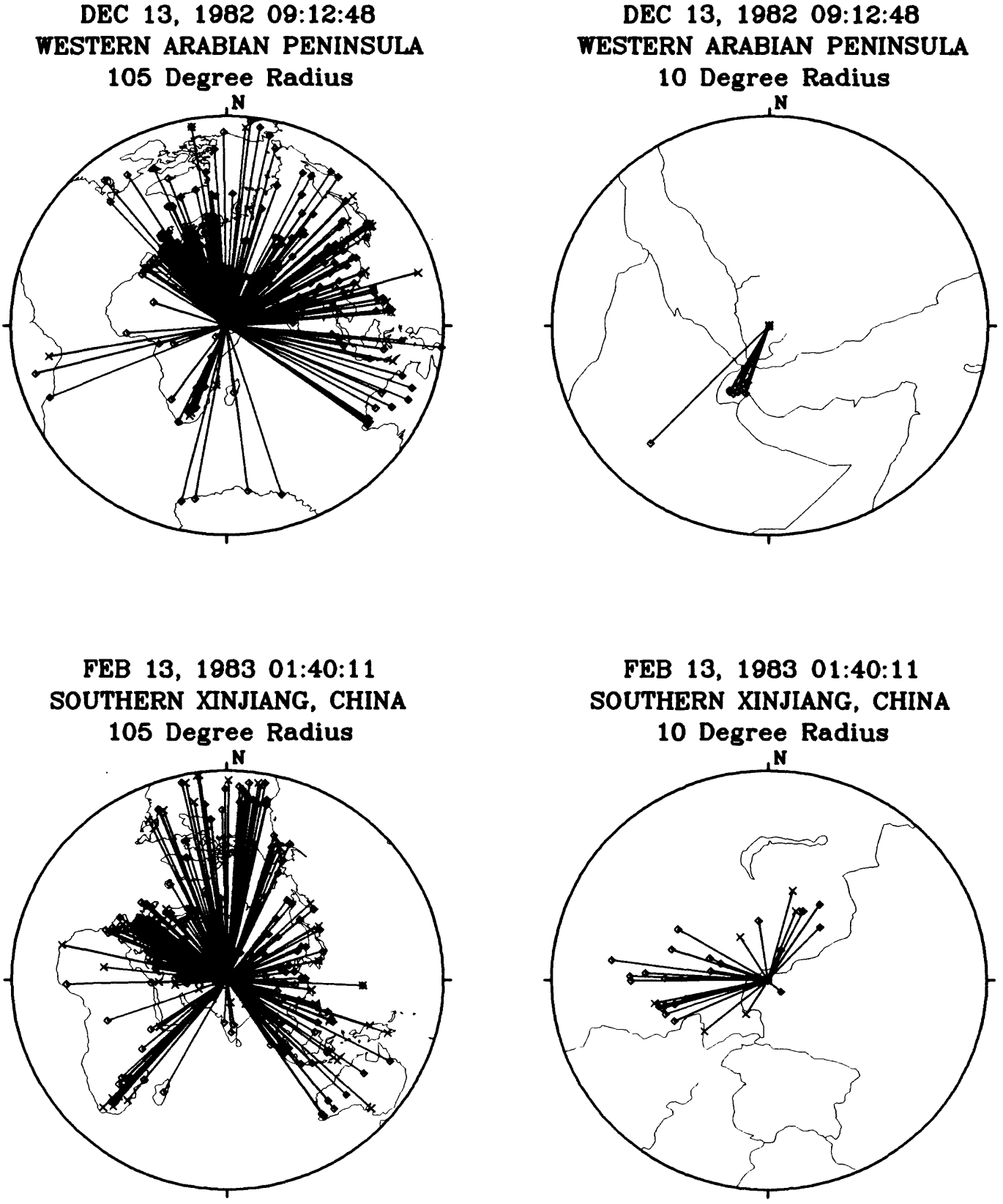
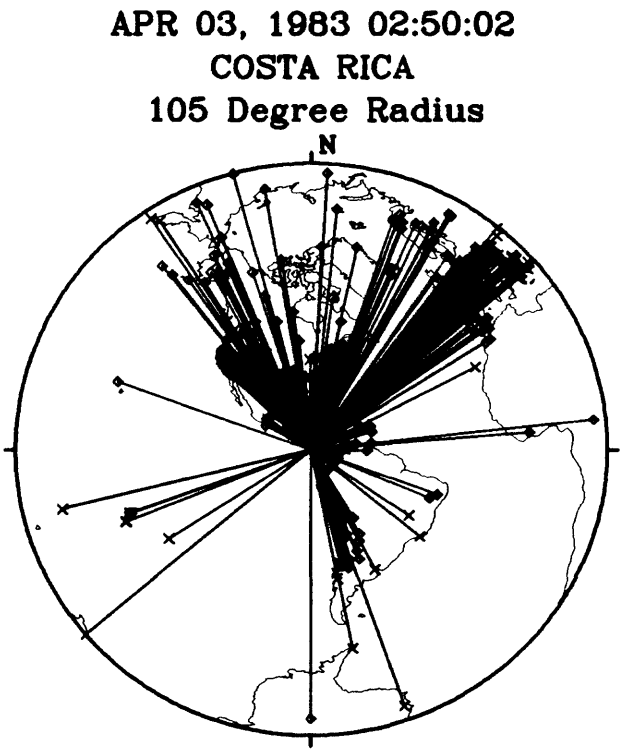
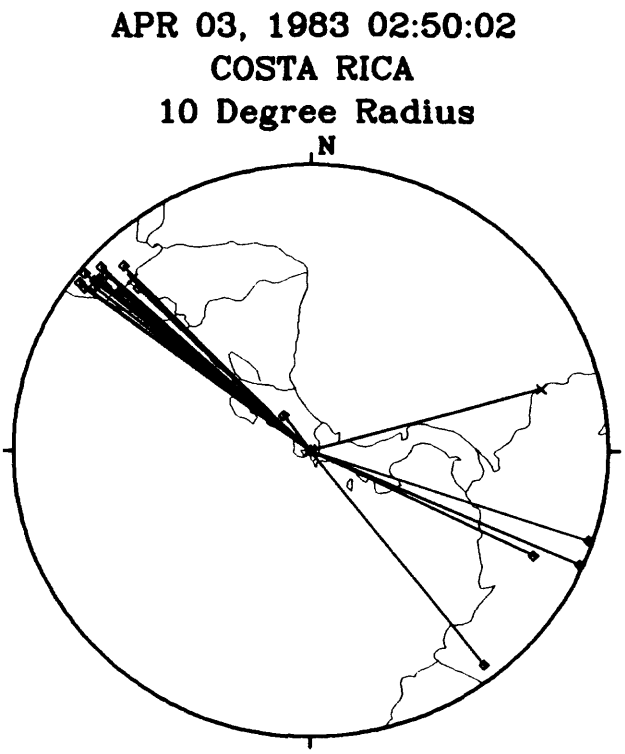
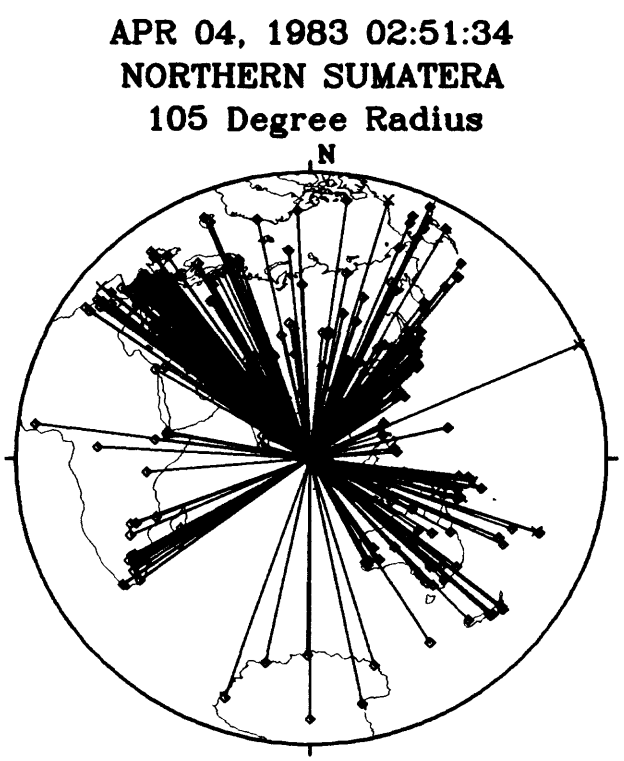

DEC 13, 1982 09:12:48
WESTERN ARABIAN PENINSULA
105 Degree Radius
N
DEC 13, 1982 09:12:48
WESTERN ARABIAN PENINSULA
10 Degree Radius
N
FEB 13, 1983 01:40:11
SOUTHERN XINJIANG, CHINA
105 Degree Radius
N
FEB 13, 1983 01:40:11
SOUTHERN XINJIANG, CHINA
10 Degree Radius
N

Figure 11


APR 03, 1983 02:50:02
COSTA RICA
105 Degree Radius
N


APR 03, 1983 02:50:02
COSTA RICA
10 Degree Radius
N


APR 04, 1983 02:51:34
NORTHERN SUMATERA
105 Degree Radius
N

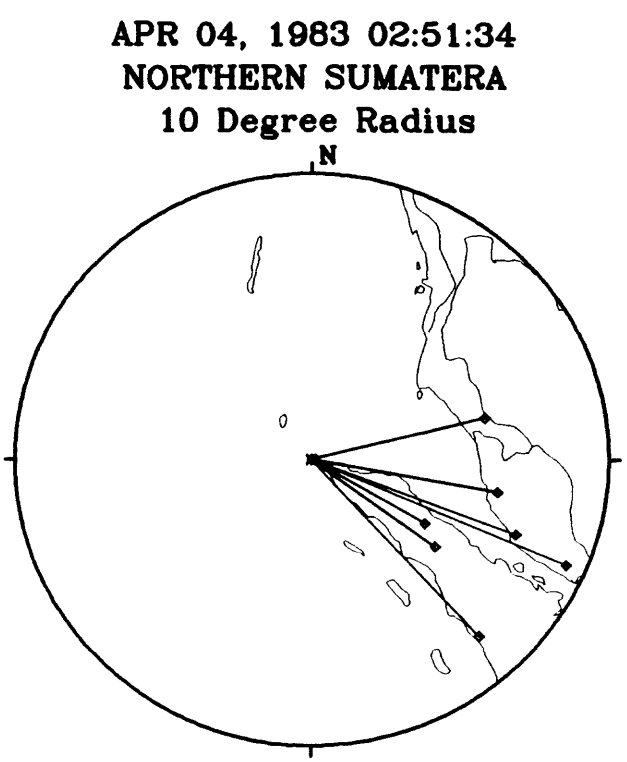

APR 04, 1983 02:51:34
NORTHERN SUMATERA
10 Degree Radius
N

Figure 12

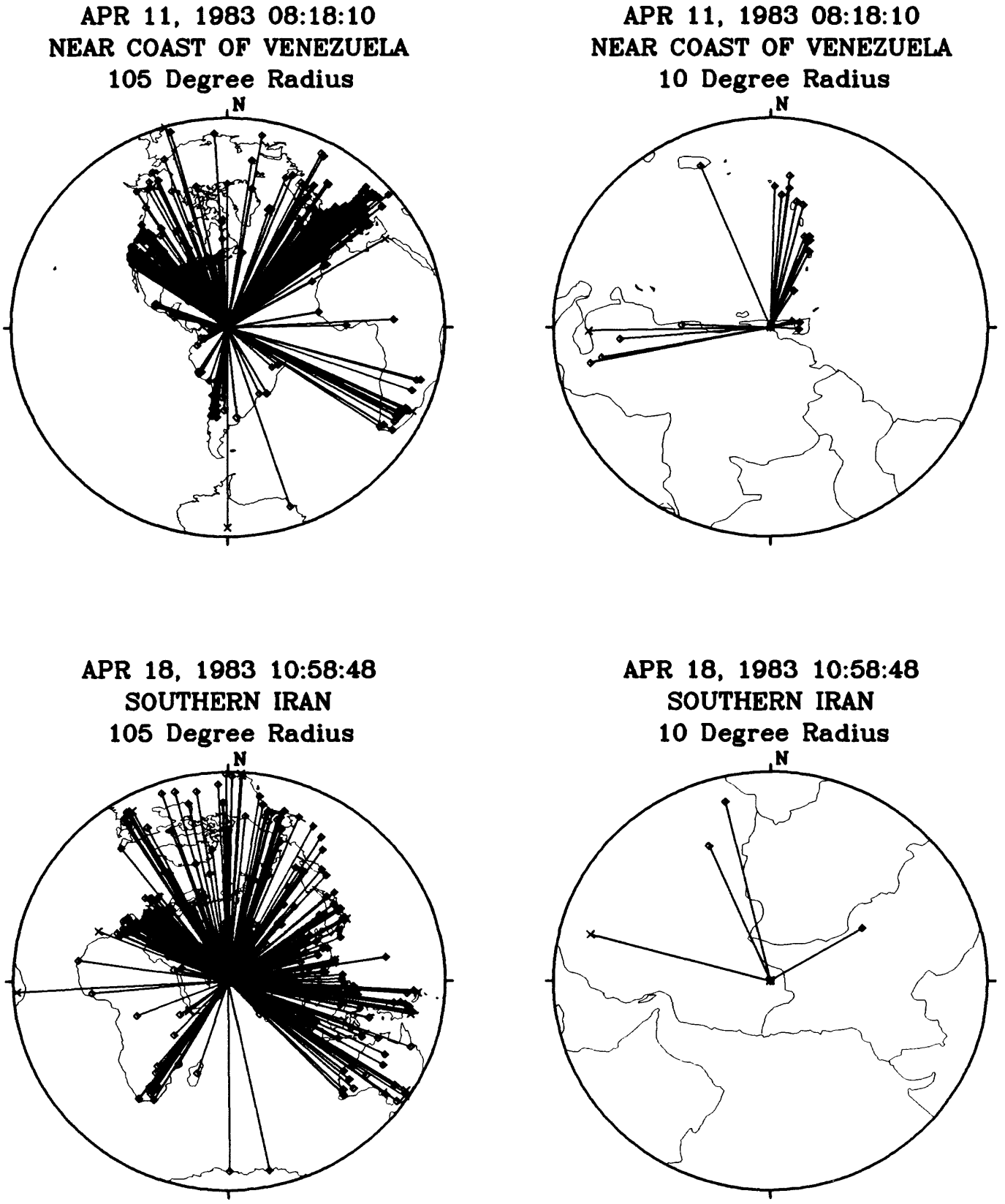
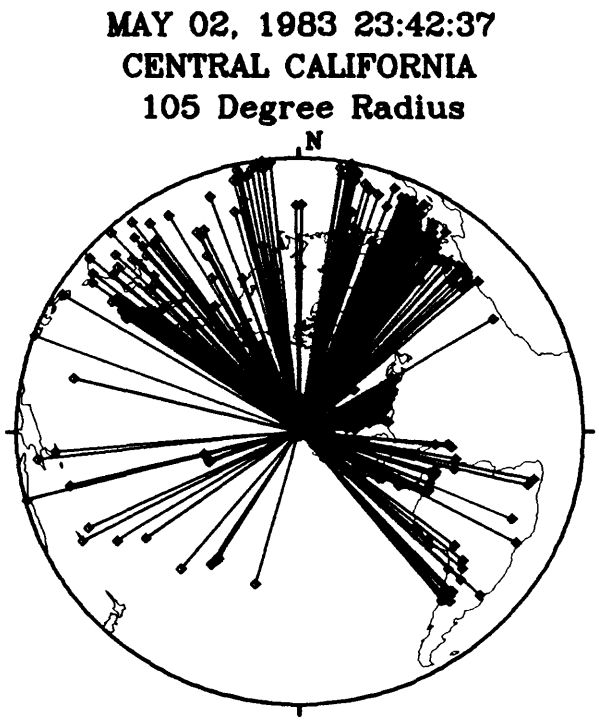
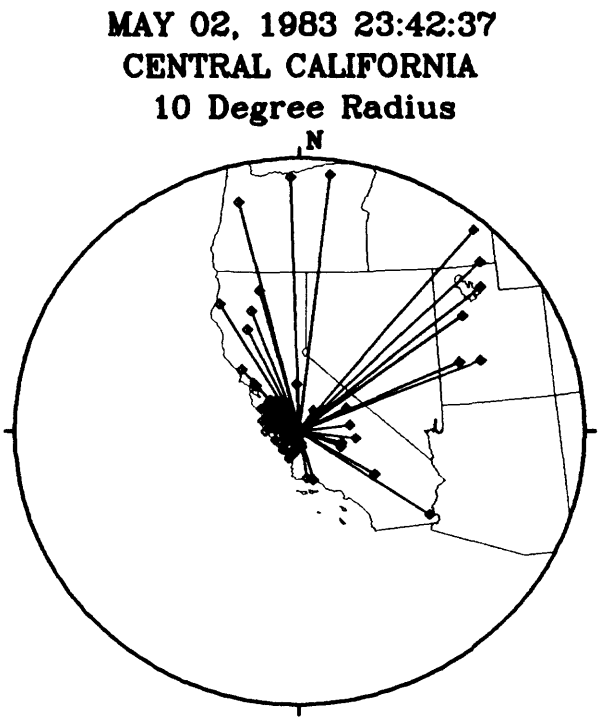
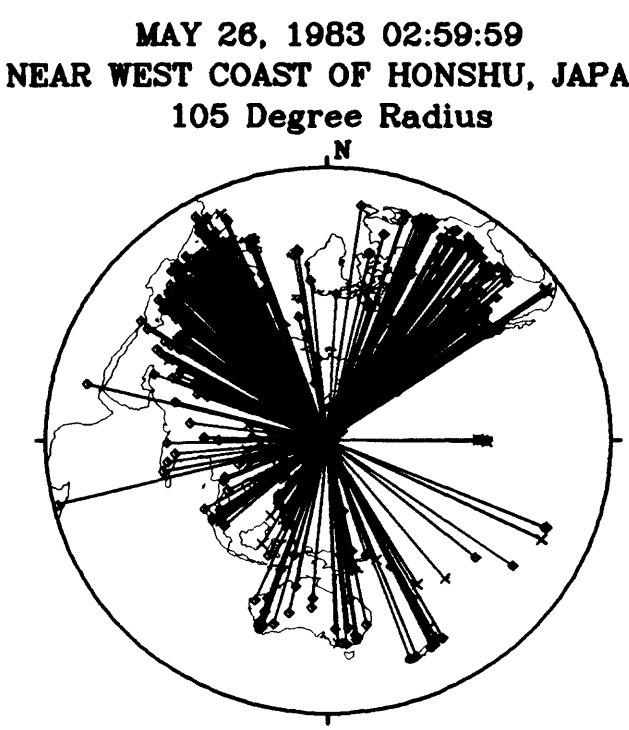

APR 11, 1983 08:18:10
NEAR COAST OF VENEZUELA
105 Degree Radius
N
APR 11, 1983 08:18:10
NEAR COAST OF VENEZUELA
10 Degree Radius
N
APR 18, 1983 10:58:48
SOUTHERN IRAN
105 Degree Radius
N
APR 18, 1983 10:58:48
SOUTHERN IRAN
10 Degree Radius
N

Figure 13


MAY 02, 1983 23:42:37
CENTRAL CALIFORNIA
105 Degree Radius
N


MAY 02, 1983 23:42:37
CENTRAL CALIFORNIA
10 Degree Radius
N


MAY 26, 1983 02:59:59
NEAR WEST COAST OF HONSHU, JAPAN
105 Degree Radius
N

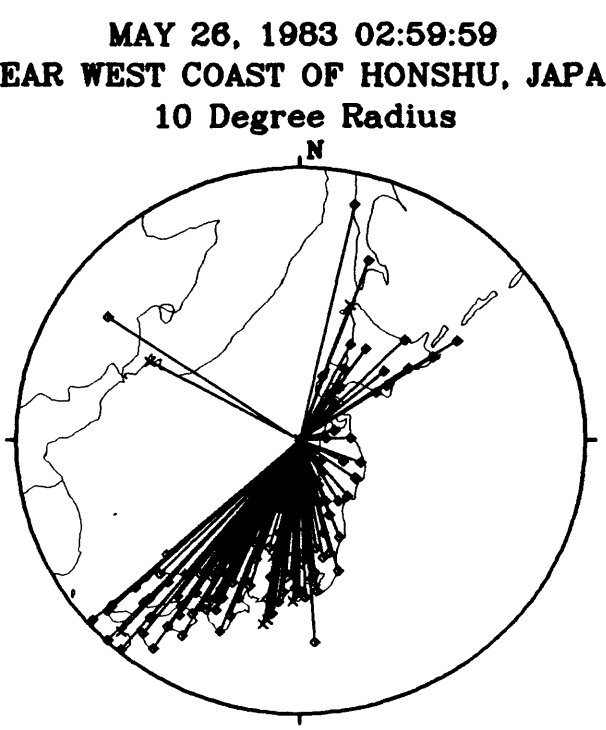
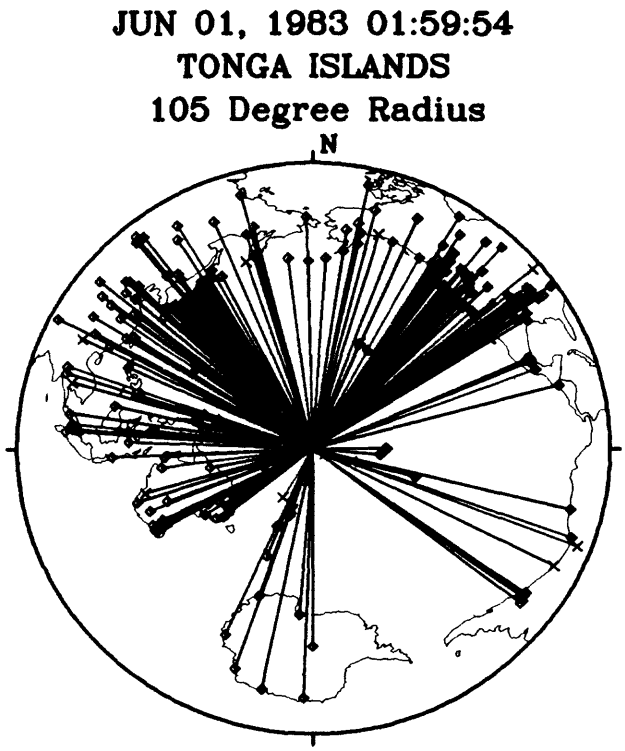
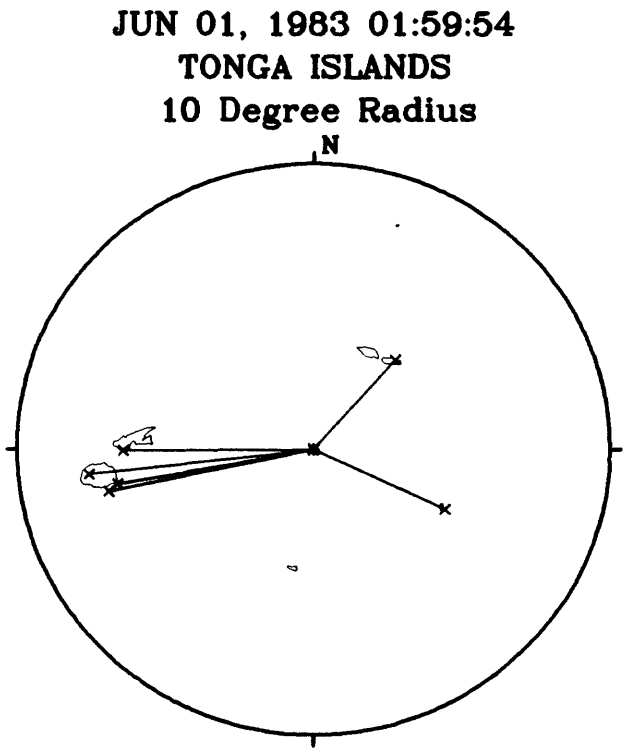
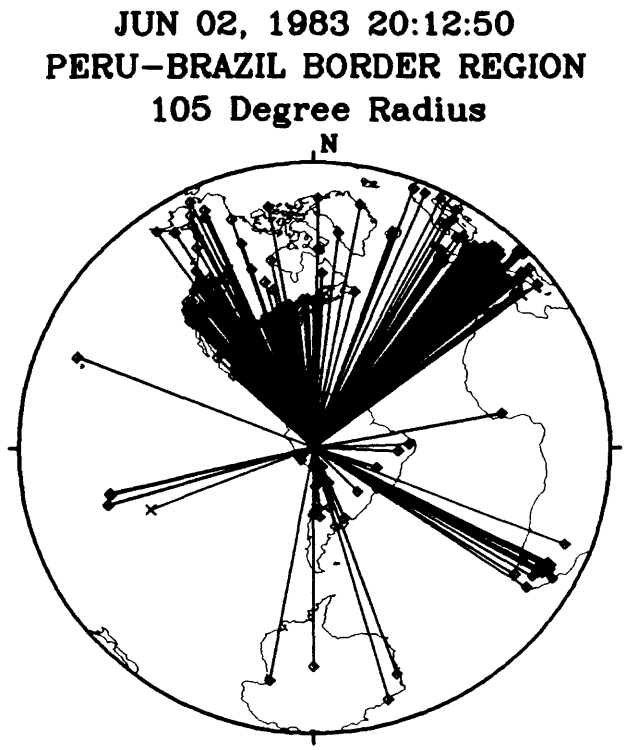

MAY 26, 1983 02:59:59
NEAR WEST COAST OF HONSHU, JAPAN
10 Degree Radius
N

Figure 14


JUN 01, 1983 01:59:54
TONGA ISLANDS
105 Degree Radius
N


JUN 01, 1983 01:59:54
TONGA ISLANDS
10 Degree Radius
N


JUN 02, 1983 20:12:50
PERU-BRAZIL BORDER REGION
105 Degree Radius
N

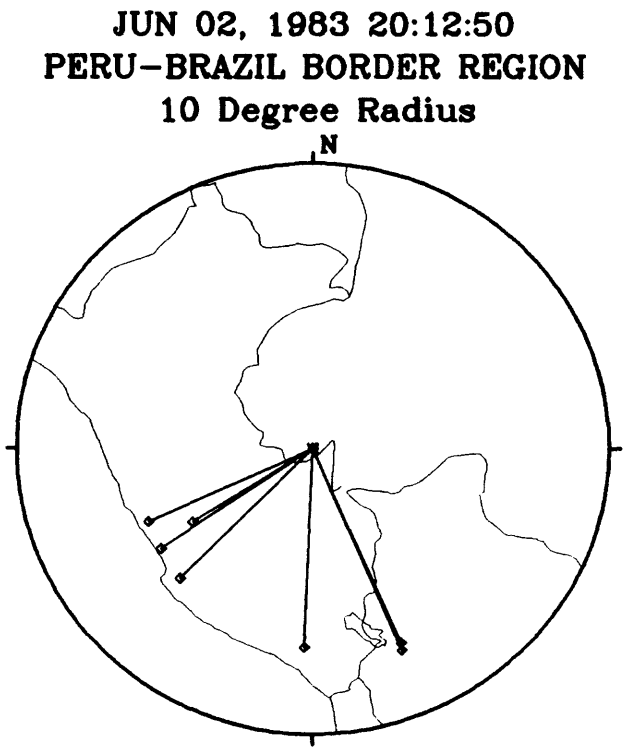

JUN 02, 1983 20:12:50
PERU-BRAZIL BORDER REGION
10 Degree Radius
N

Figure 15

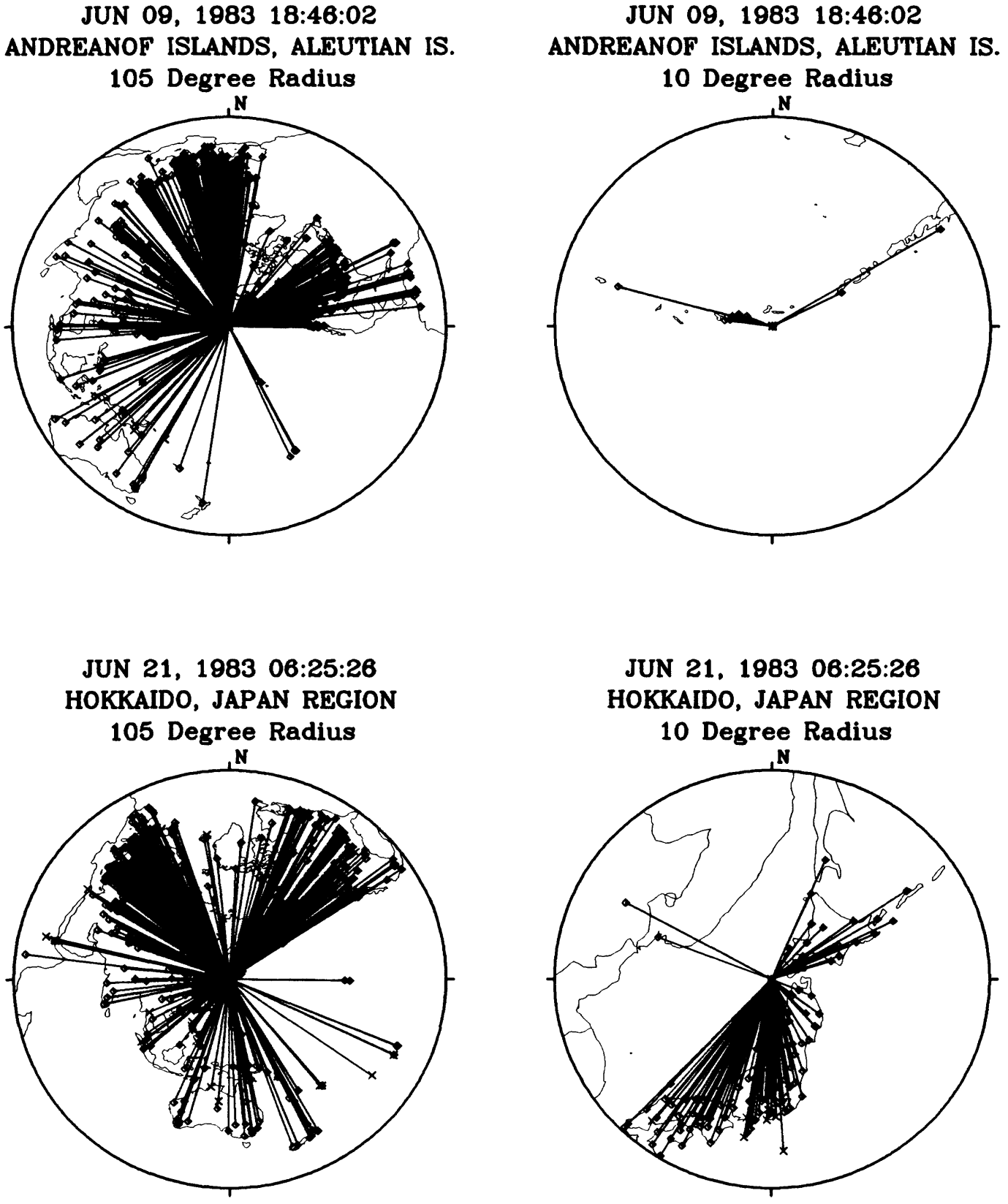
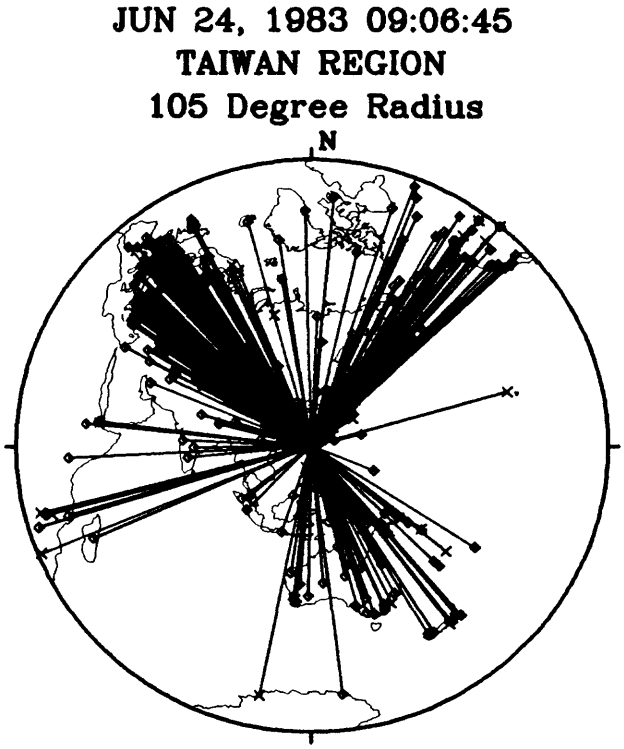
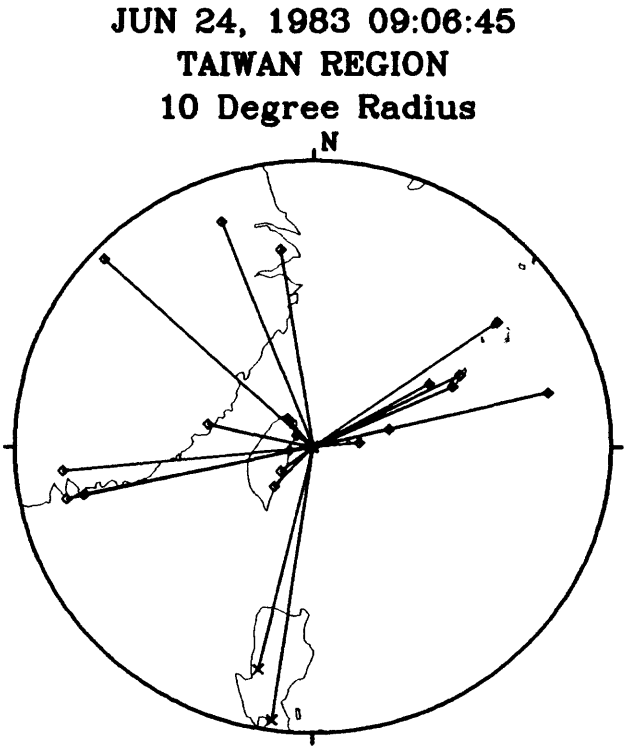
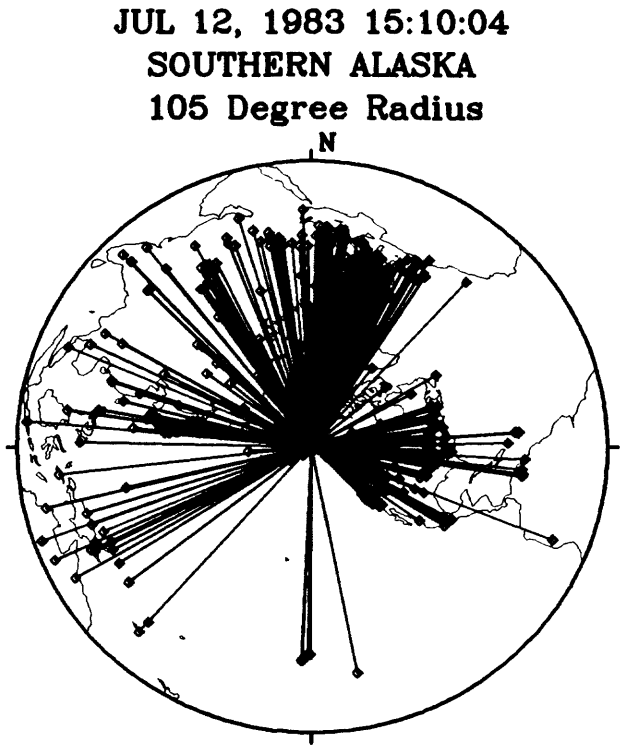

JUN 09, 1983 18:46:02
ANDREANOF ISLANDS, ALEUTIAN IS.
105 Degree Radius
N
JUN 09, 1983 18:46:02
ANDREANOF ISLANDS, ALEUTIAN IS.
10 Degree Radius
N
JUN 21, 1983 06:25:26
HOKKAIDO, JAPAN REGION
105 Degree Radius
N
JUN 21, 1983 06:25:26
HOKKAIDO, JAPAN REGION
10 Degree Radius
N

Figure 16


JUN 24, 1983 09:06:45
TAIWAN REGION
105 Degree Radius
N


JUN 24, 1983 09:06:45
TAIWAN REGION
10 Degree Radius
N


JUL 12, 1983 15:10:04
SOUTHERN ALASKA
105 Degree Radius
N

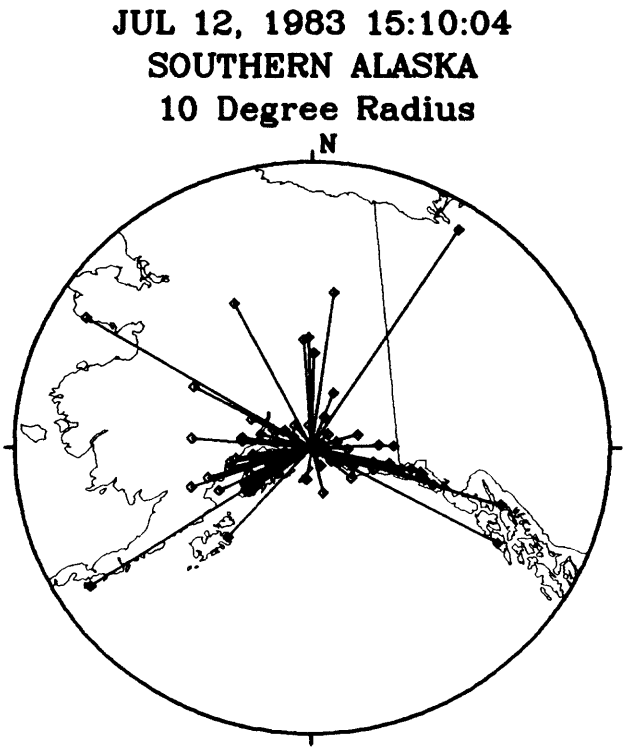
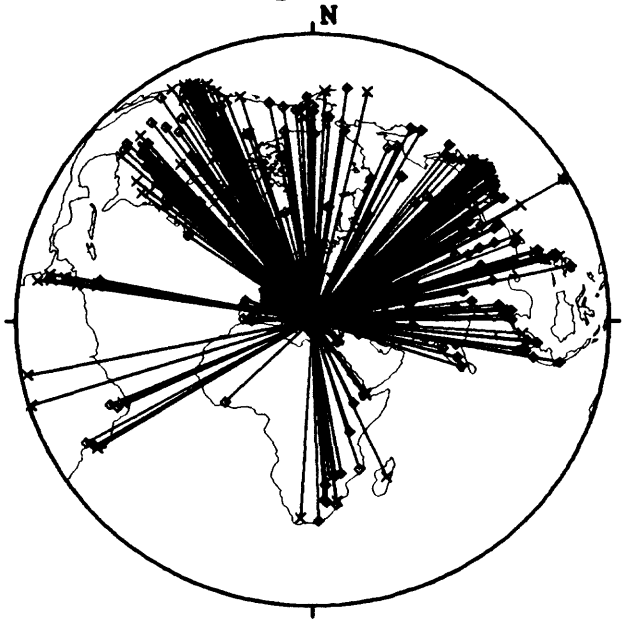
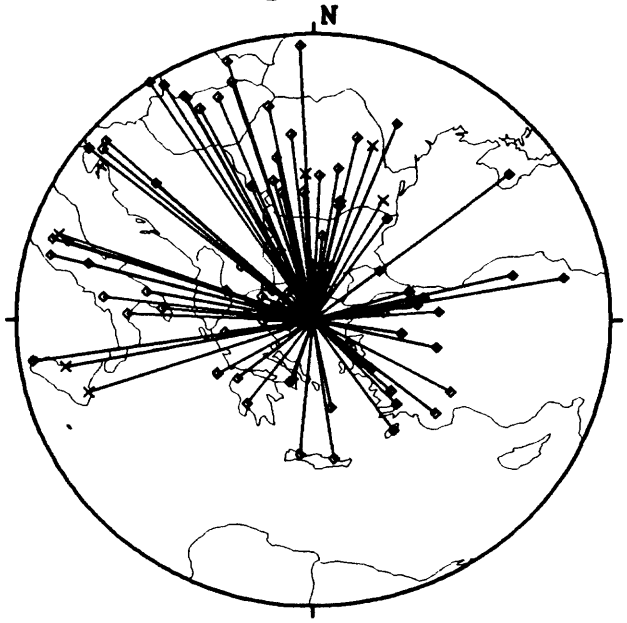

JUL 12, 1983 15:10:04
SOUTHERN ALASKA
10 Degree Radius
N

Figure 17

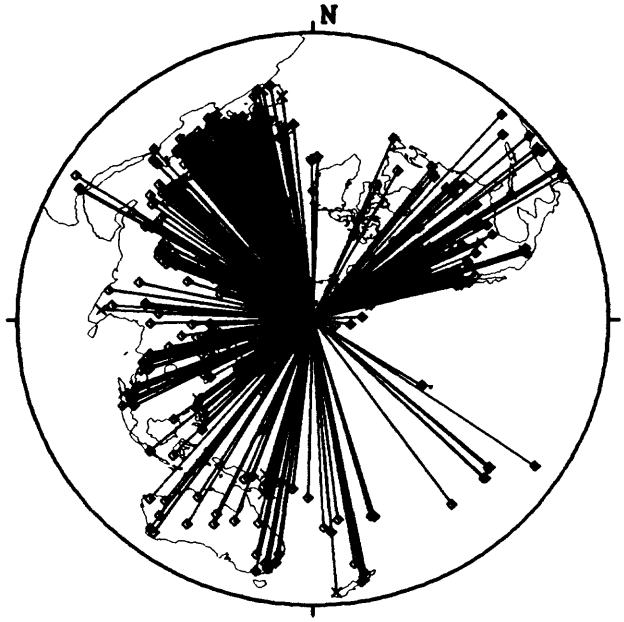
AUG 06, 1983 15:43:52
AEGEAN SEA
105 Degree Radius



AUG 06, 1983 15:43:52
AEGEAN SEA
10 Degree Radius



AUG 17, 1983 10:55:54
NEAR EAST COAST OF KAMCHATKA
105 Degree Radius



AUG 17, 1983 10:55:54
NEAR EAST COAST OF KAMCHATKA
10 Degree Radius

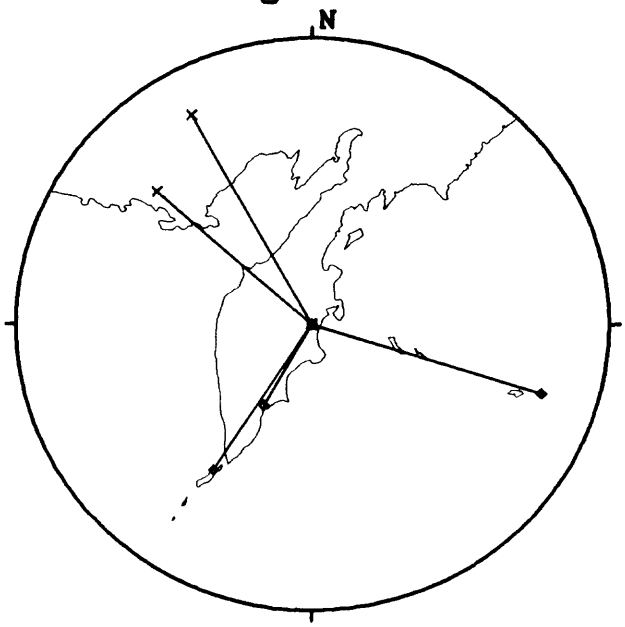
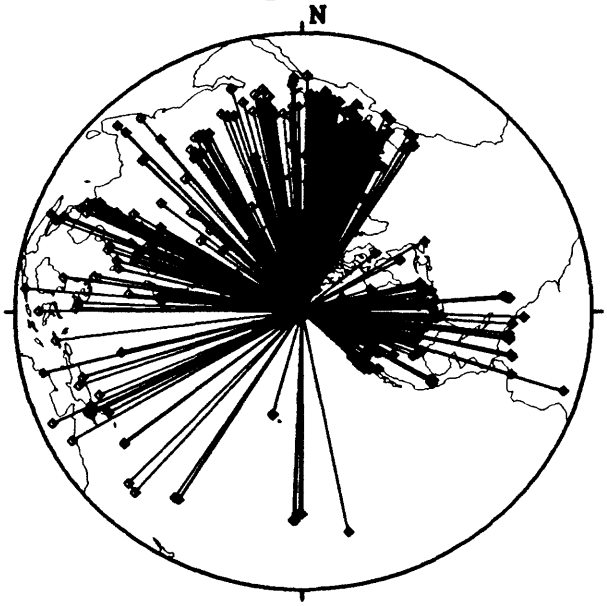
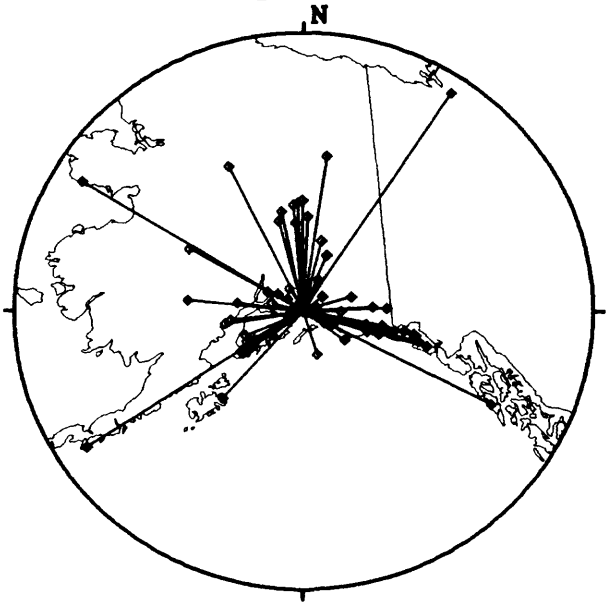


Figure 18

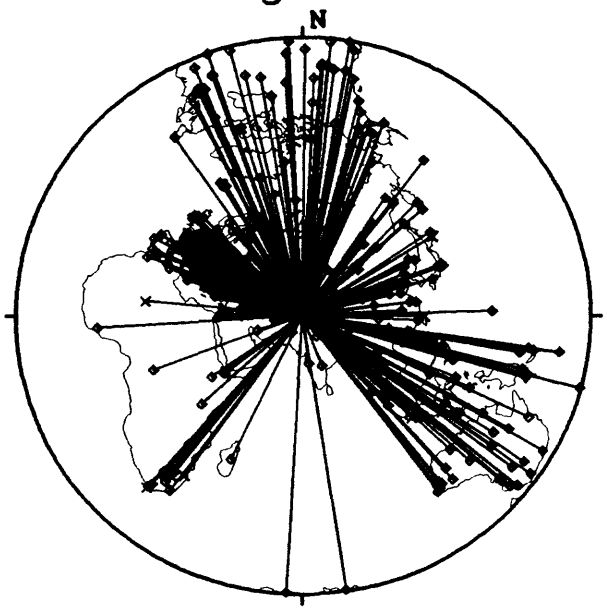
SEP 07, 1983 19:22:05
SOUTHERN ALASKA
105 Degree Radius



SEP 07, 1983 19:22:05
SOUTHERN ALASKA
10 Degree Radius



SEP 12, 1983 15:42:08
AFGHANISTAN–USSR BORDER REGION
105 Degree Radius



SEP 12, 1983 15:42:08
AFGHANISTAN–USSR BORDER REGION
10 Degree Radius

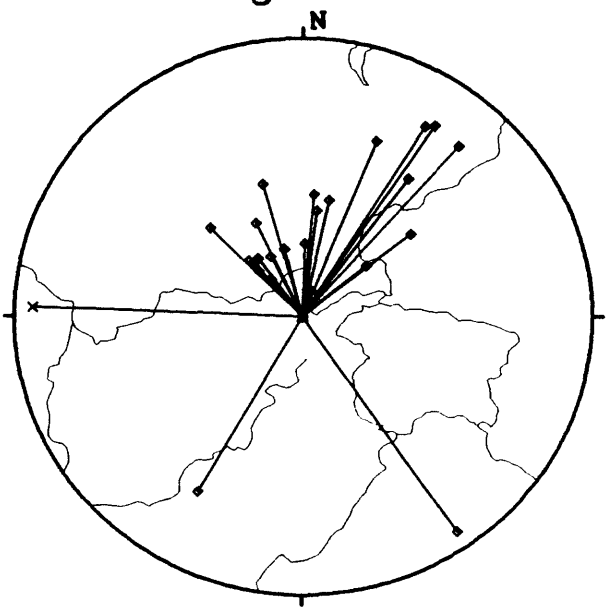
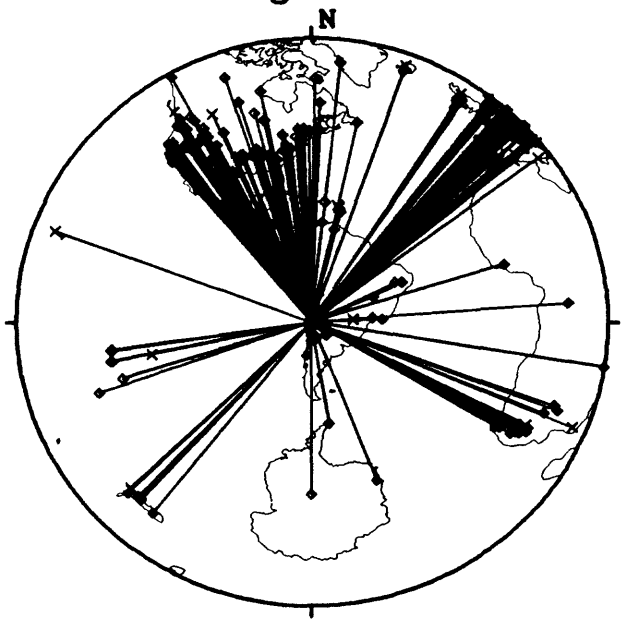
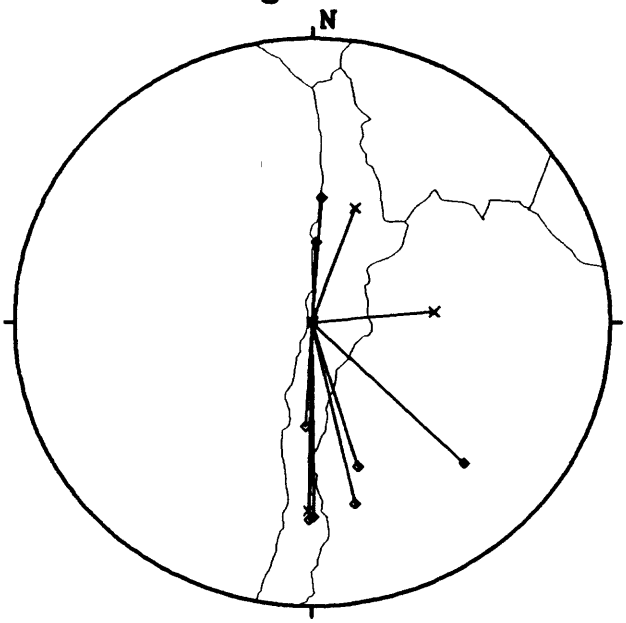


Figure 19

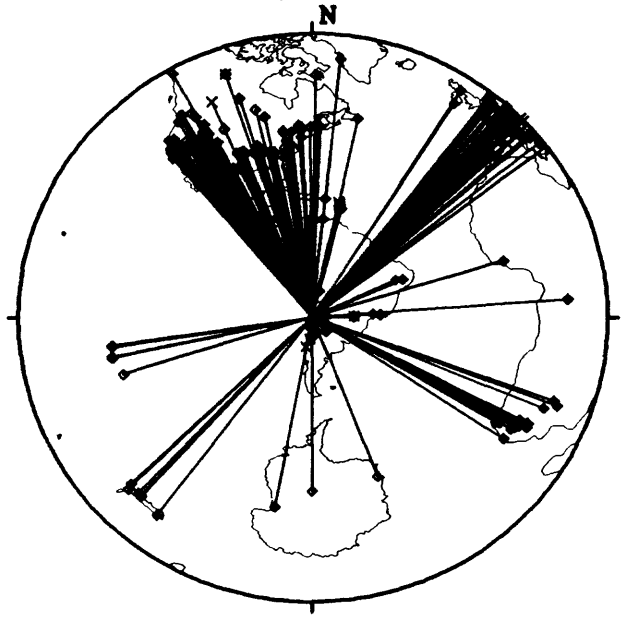
OCT 04, 1983 18:52:12
NEAR COAST OF NORTHERN CHILE
105 Degree Radius



OCT 04, 1983 18:52:12
NEAR COAST OF NORTHERN CHILE
10 Degree Radius



OCT 09, 1983 11:25:38
NEAR COAST OF NORTHERN CHILE
105 Degree Radius



OCT 09, 1983 11:25:38
NEAR COAST OF NORTHERN CHILE
10 Degree Radius

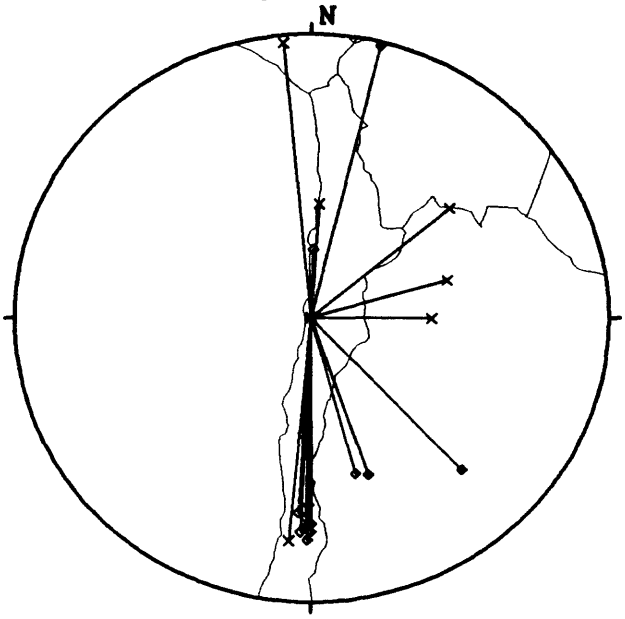


Figure 20

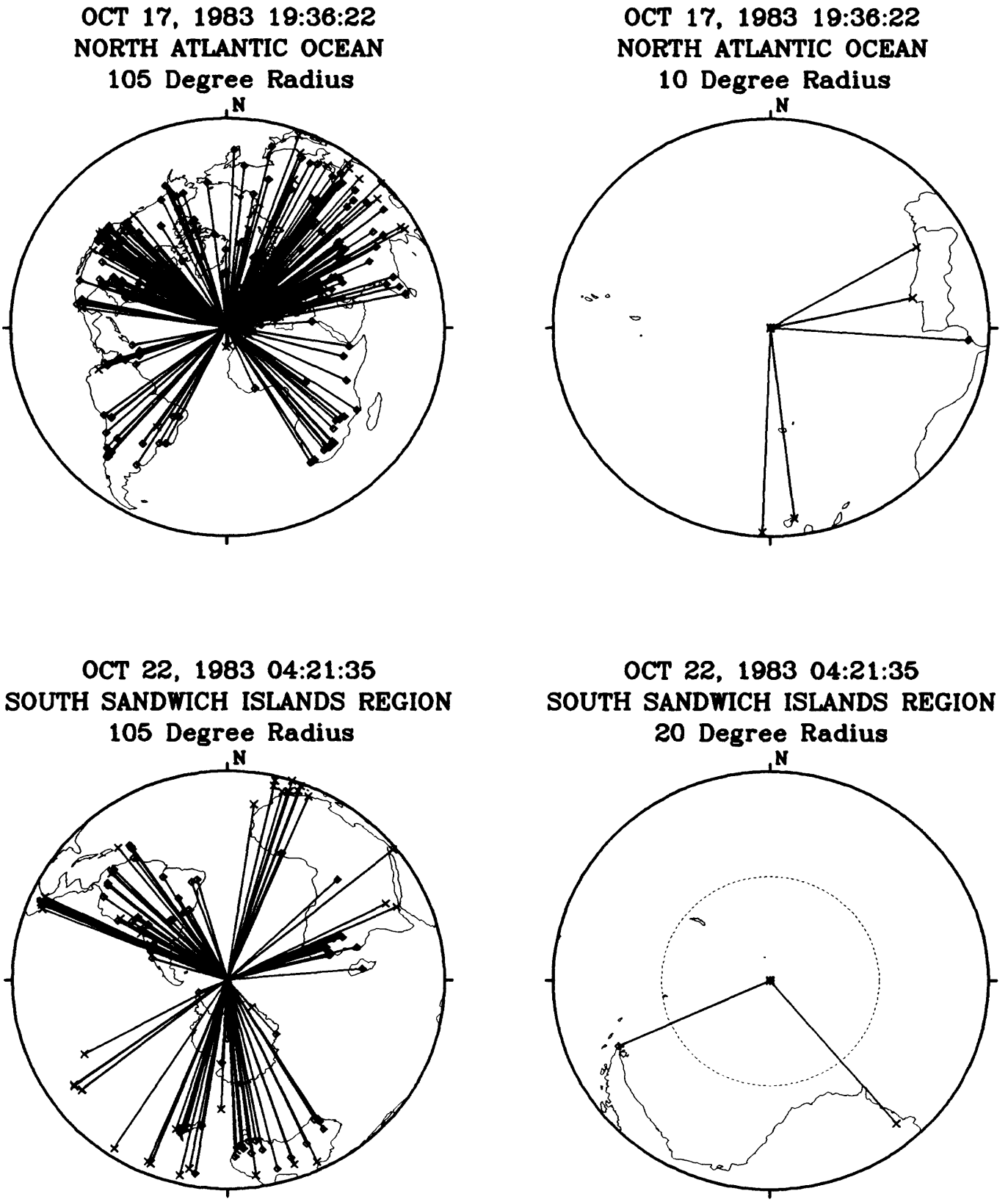
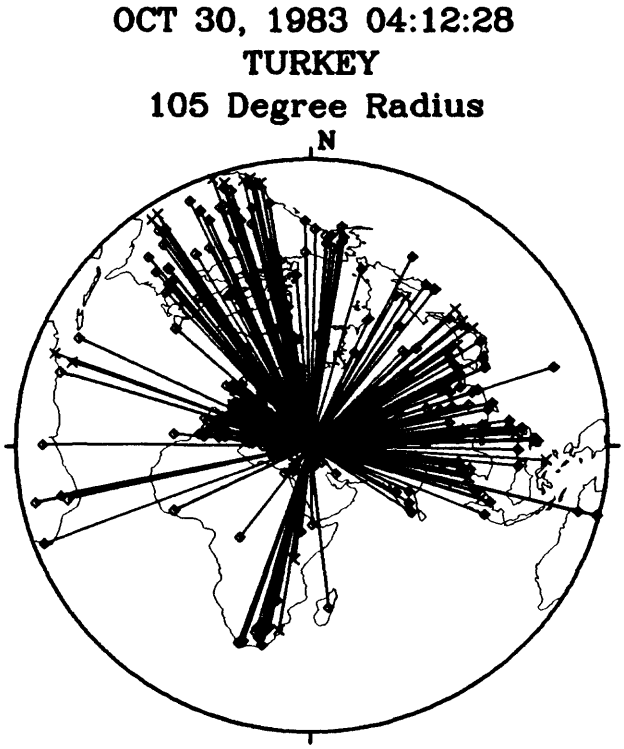
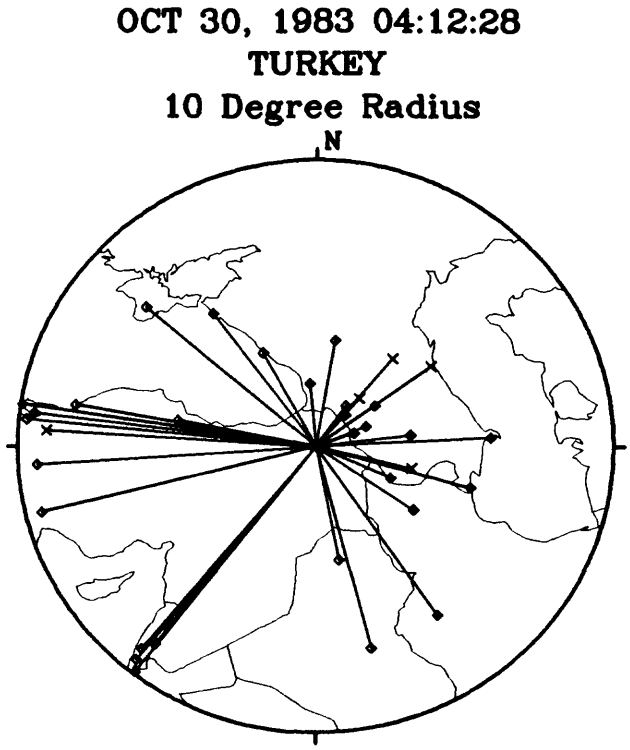
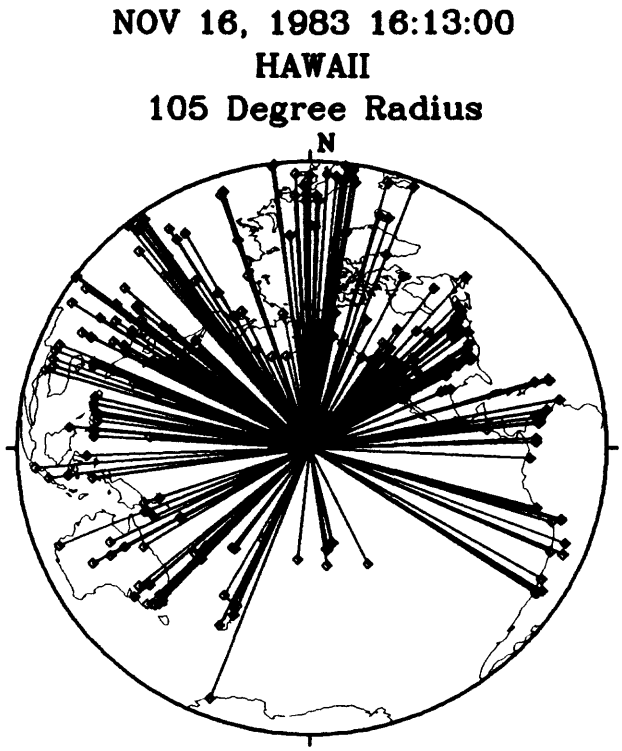

OCT 17, 1983 19:36:22
NORTH ATLANTIC OCEAN
105 Degree Radius
N
OCT 17, 1983 19:36:22
NORTH ATLANTIC OCEAN
10 Degree Radius
N
OCT 22, 1983 04:21:35
SOUTH SANDWICH ISLANDS REGION
105 Degree Radius
N
OCT 22, 1983 04:21:35
SOUTH SANDWICH ISLANDS REGION
20 Degree Radius
N

Figure 21


OCT 30, 1983 04:12:28
TURKEY
105 Degree Radius
N


OCT 30, 1983 04:12:28
TURKEY
10 Degree Radius
N


NOV 16, 1983 16:13:00
HAWAII
105 Degree Radius
N

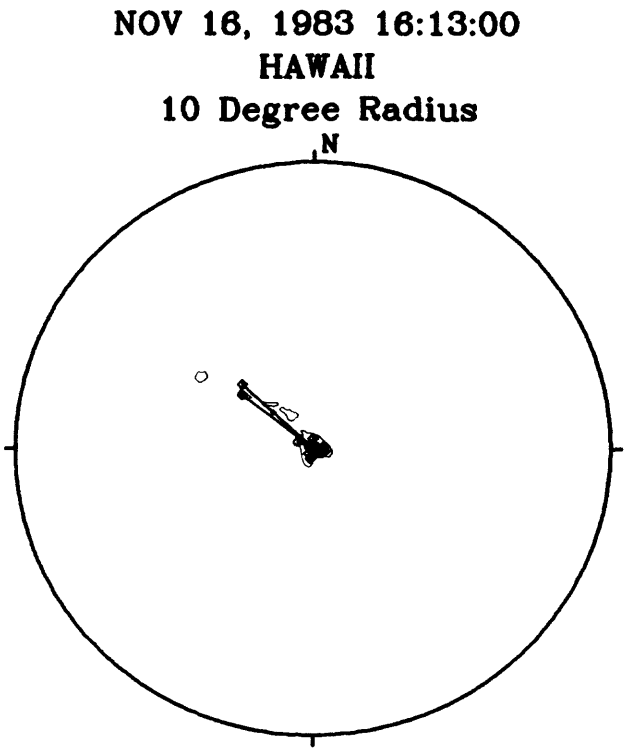

NOV 16, 1983 16:13:00
HAWAII
10 Degree Radius
N

Figure 22

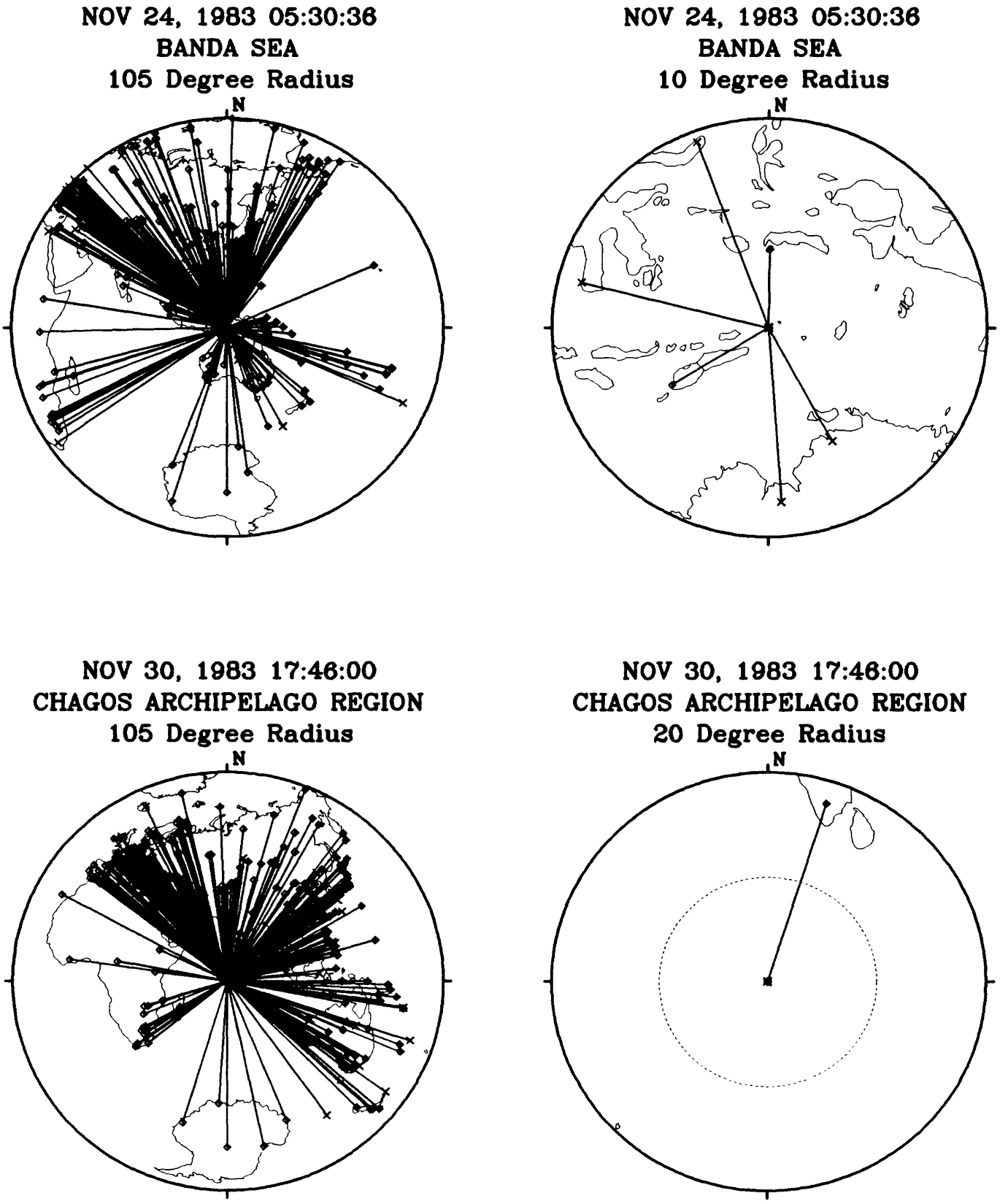
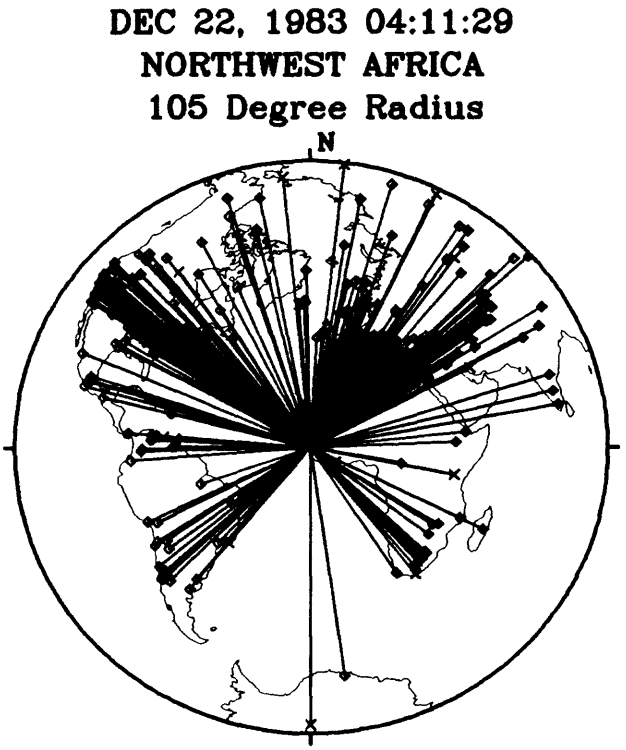
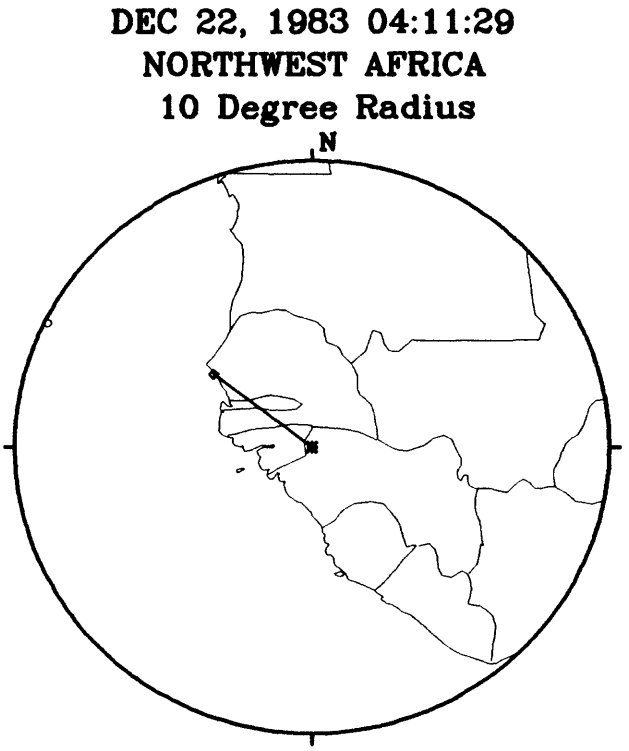
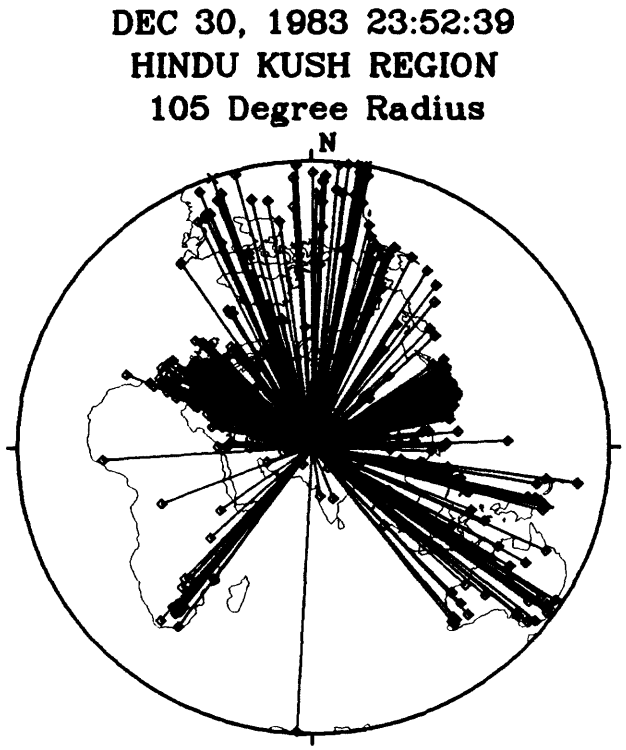

NOV 24, 1983 05:30:36
BANDA SEA
105 Degree Radius
N
NOV 24, 1983 05:30:36
BANDA SEA
10 Degree Radius
N
NOV 30, 1983 17:46:00
CHAGOS ARCHIPELAGO REGION
105 Degree Radius
N
NOV 30, 1983 17:46:00
CHAGOS ARCHIPELAGO REGION
20 Degree Radius
N

Figure 23


DEC 22, 1983 04:11:29
NORTHWEST AFRICA
105 Degree Radius
N


DEC 22, 1983 04:11:29
NORTHWEST AFRICA
10 Degree Radius
N


DEC 30, 1983 23:52:39
HINDU KUSH REGION
105 Degree Radius
N

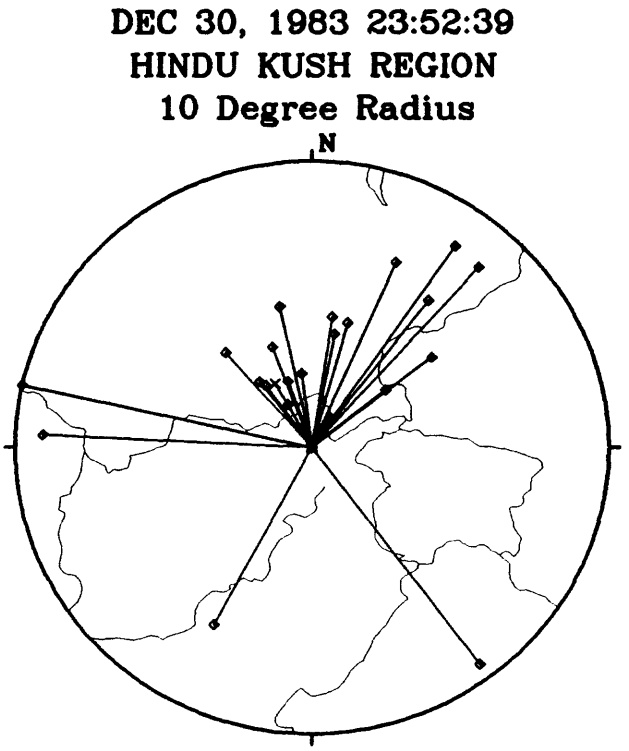

DEC 30, 1983 23:52:39
HINDU KUSH REGION
10 Degree Radius
N

Figure 24

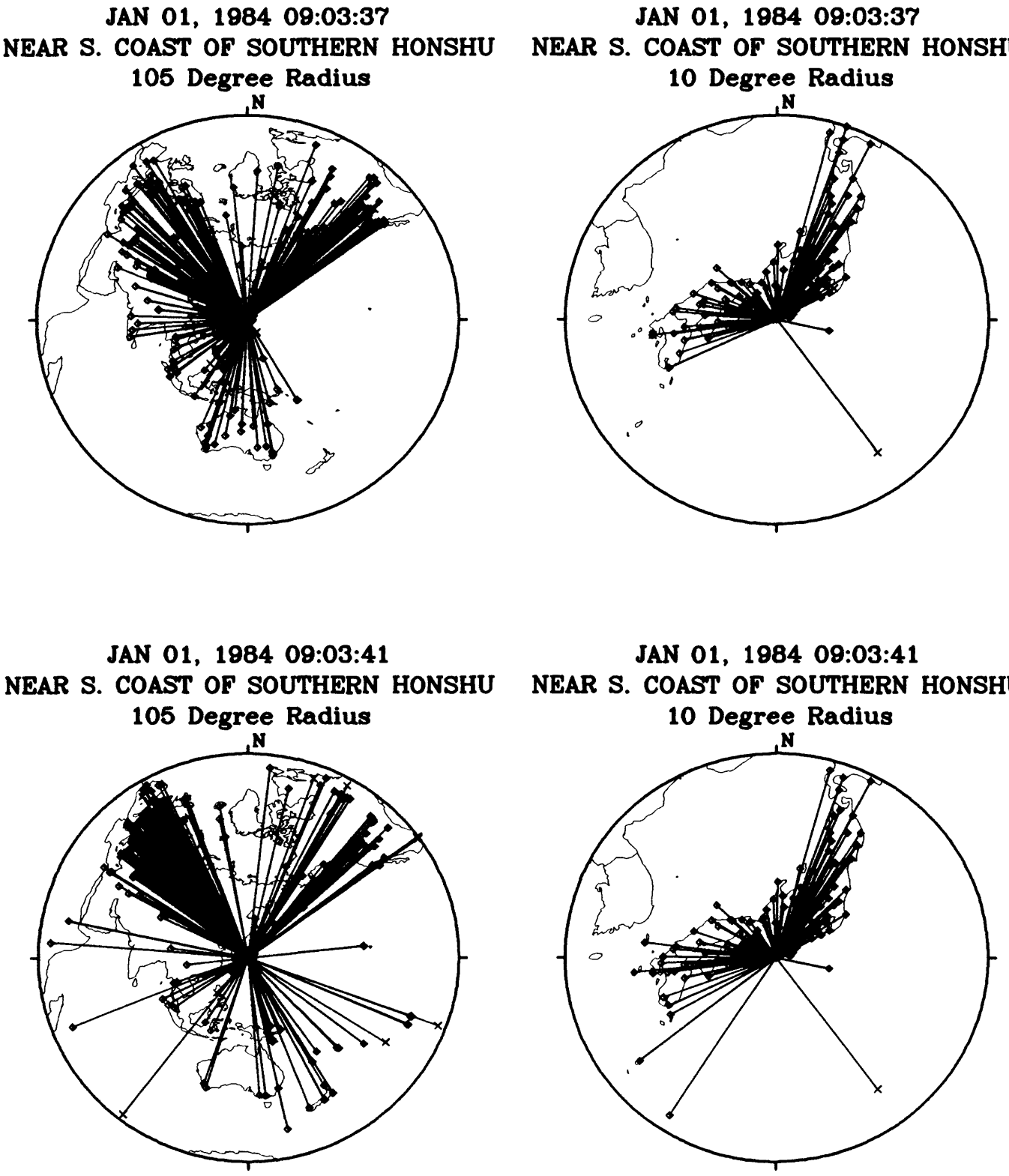
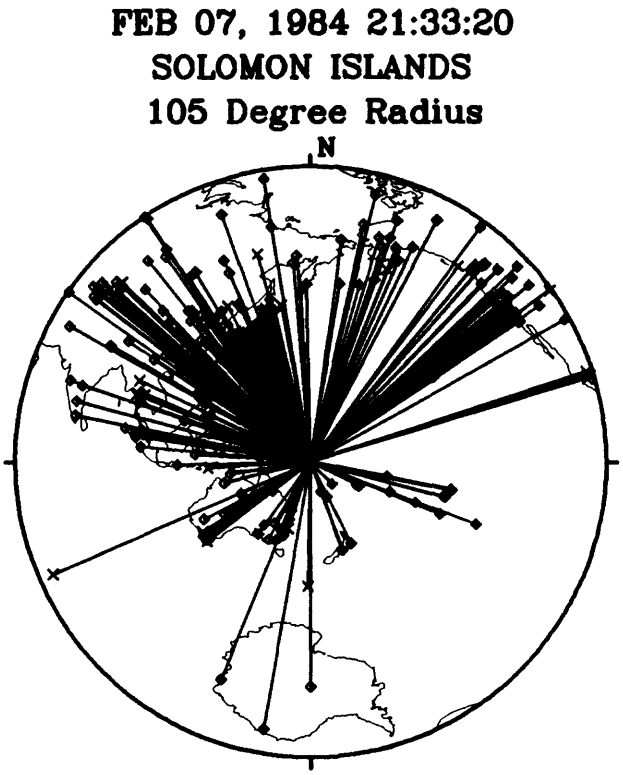
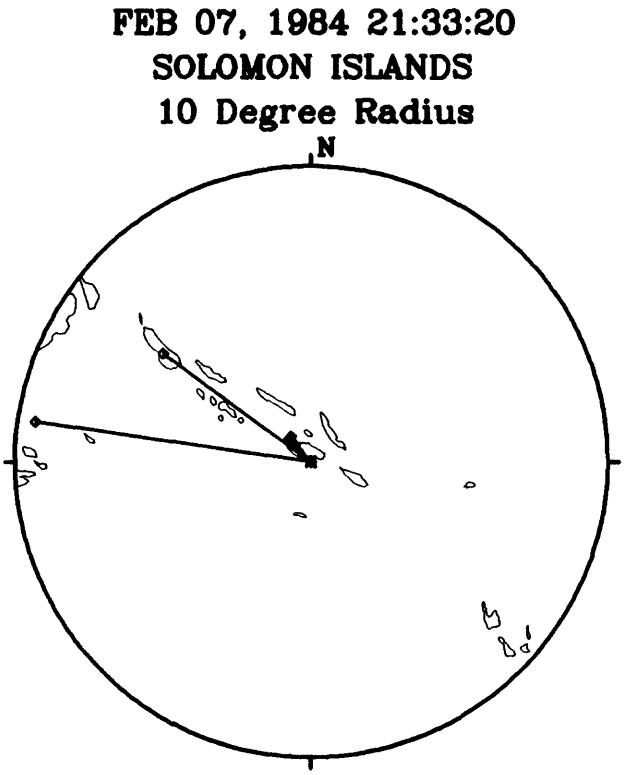
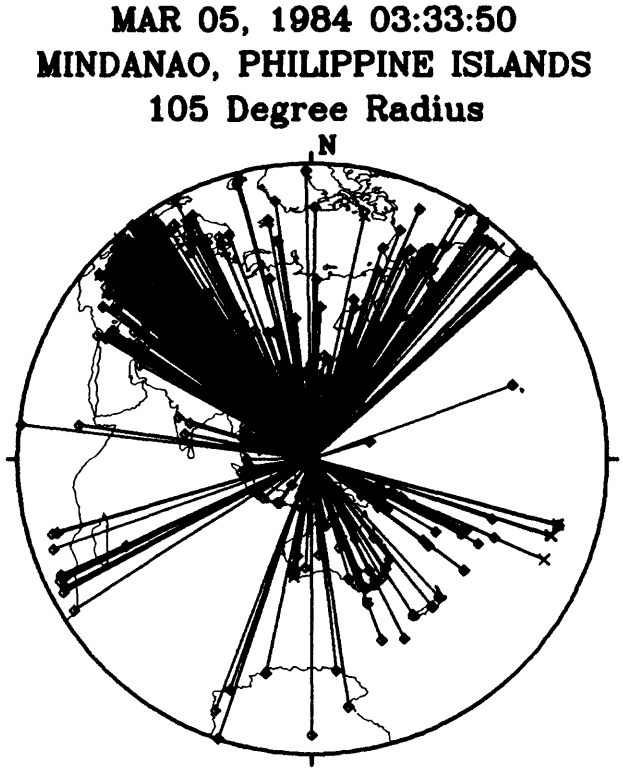

JAN 01, 1984 09:03:37
NEAR S. COAST OF SOUTHERN HONSHU
105 Degree Radius
N
JAN 01, 1984 09:03:37
NEAR S. COAST OF SOUTHERN HONSHU
10 Degree Radius
N
JAN 01, 1984 09:03:41
NEAR S. COAST OF SOUTHERN HONSHU
105 Degree Radius
N
JAN 01, 1984 09:03:41
NEAR S. COAST OF SOUTHERN HONSHU
10 Degree Radius
N

Figure 25


FEB 07, 1984 21:33:20
SOLOMON ISLANDS
105 Degree Radius
N


FEB 07, 1984 21:33:20
SOLOMON ISLANDS
10 Degree Radius
N


MAR 05, 1984 03:33:50
MINDANAO, PHILIPPINE ISLANDS
105 Degree Radius
N

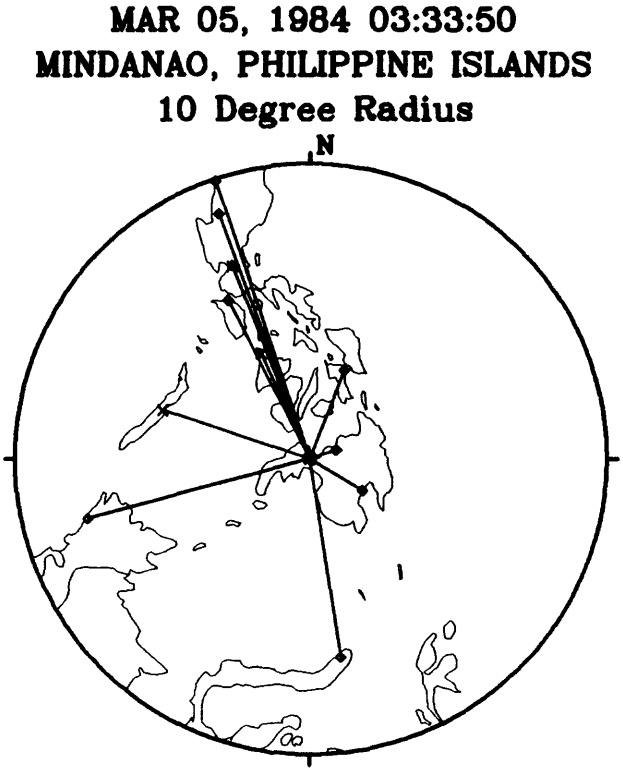
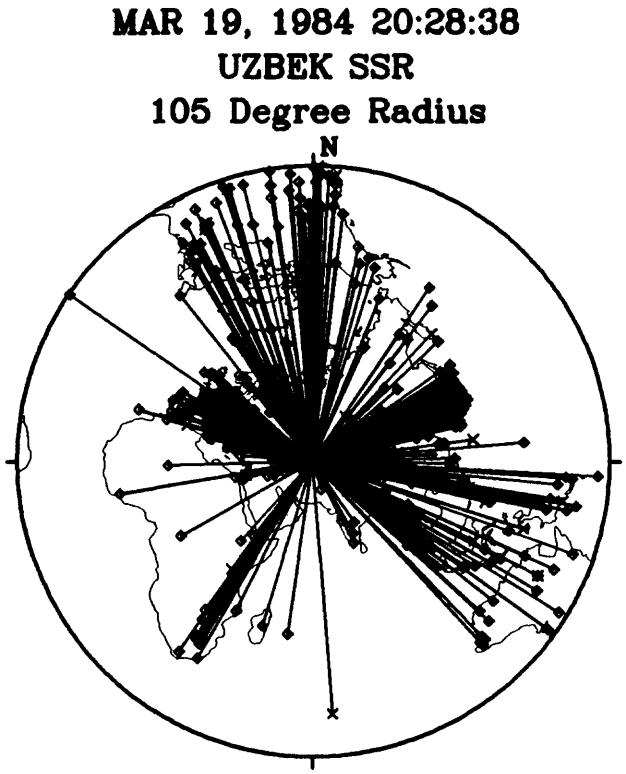
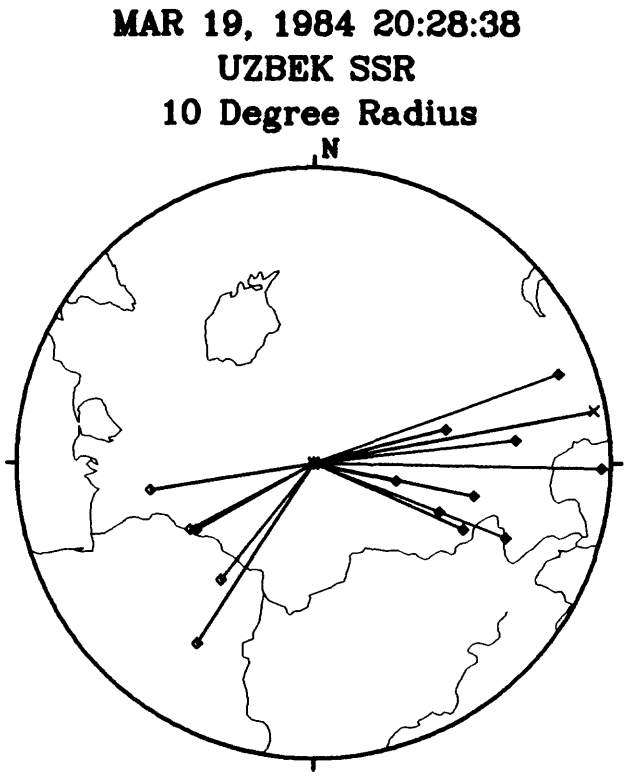
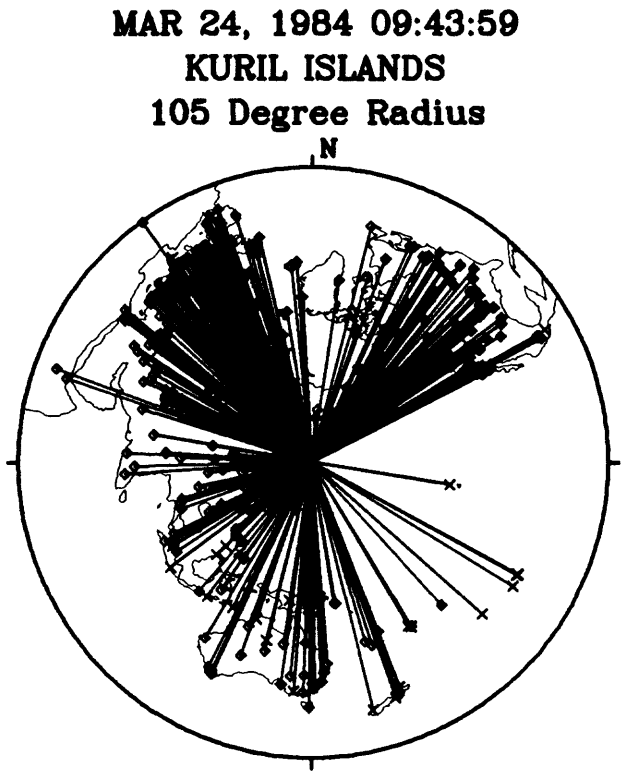

MAR 05, 1984 03:33:50
MINDANAO, PHILIPPINE ISLANDS
10 Degree Radius
N

Figure 26


MAR 19, 1984 20:28:38
UZBEK SSR
105 Degree Radius
N


MAR 19, 1984 20:28:38
UZBEK SSR
10 Degree Radius
N


MAR 24, 1984 09:43:59
KURIL ISLANDS
105 Degree Radius
N

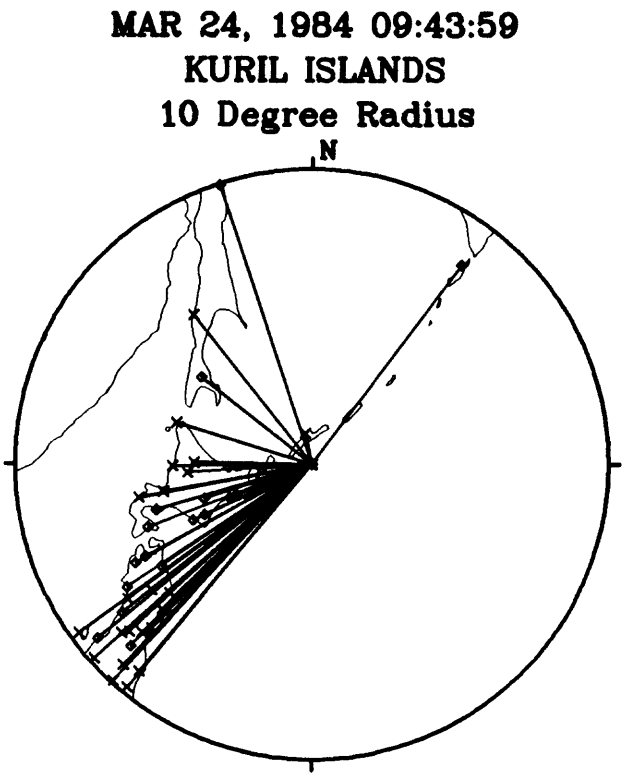

MAR 24, 1984 09:43:59
KURIL ISLANDS
10 Degree Radius
N

TABLE 4
EARTHQUAKE DATA REPORT

JAN 01, 1980 16h 42m 40.07± 0.08s
38.790 N ± 2.2km 27.785 W ± 1.2km
DEPTH = 10.0km (geophysicist)
6.0mb (91 obs.) 6.8Msz (13 obs.)
AZORES ISLANDS (405)

At leost 56 people killed, 400 or more injured ond extensive domoge (VIII) on Terceiro. At leost 4 people killed, some injured ond extensive domoge on Son Jorge. Domoge olso reported on Grocioso.

ADH	0.45	107	Pg	42	48.90	-0.3
HOR	0.71	249	Pg	42	54.50	0.4
PDA	1.97	121	Pn	43	09.40	-4.4X
TEN	14.07	134	iP	45	56.80	-4.8X
			e(S)	48	44.00	
LIS	14.55	84	Pc	46	02.50	-5.3X
			iPP	46	15.00	
			iS	48	28.50	
			LR	49	16.00	
PTO	14.90	75	P	46	05.00	-7.4X
			pP	46	06.70	
			S	48	33.80	
COI	15.02	78	P	46	07.30	-6.7X
			S	48	48.70	
MTE	15.69	78	P	46	15.00	-7.8X
			S	48	54.00	
FAR	15.74	90	P	46	18.40	-5.0X
			S	49	07.40	
SFS	17.25	91	iP	46	43.00	0.5
			i	46	49.50	
			iPP	47	03.00	
			i	47	40.00	
			iS	49	24.00	
VAL	17.96	37	ePc	46	50.00	-1.2
			S	49	56.00	
			LQ	50	31.00	
			LR	51	11.00	
GUD	18.27	77	iP	46	52.00	-3.3X
TOL	18.39	79	Pc	46	52.50	-4.2X
			iS	50	12.00	
MAL	18.59	89	iPd	46	59.80	0.7
LGR	19.51	71	iPd	47	09.40	-1.0
	1.3s		4.50nm			3.6mb X
			iPP	47	25.40	
			iS	50	31.40	
STJ	20.13	304	eP	47	17.00	0.2
	1.4s		999.00nm			6.0mb
DKM	20.68	39	eP	47	21.70	-0.8
	1.4s		2700.00nm			6.4mb
DDK	20.72	38	eP	47	21.90	-1.0
DMU	20.76	37	eP	47	23.00	-0.4
	1.7s		5070.00nm			6.6mb
ALI	21.32	83	iPc	47	29.00	-0.2
SGR	21.42	57	eP	47	31.00	0.9
LPF	21.42	56	eP	47	29.40	-0.7
EPF	21.63	70	eP	47	29.90	-2.4
	1.4s		1840.00nm			6.3mb
GRR	21.64	55	eP	47	32.20	-0.1
	1.2s		990.00nm			6.1mb
MFF	21.68	60	eP	47	31.70	-1.1
EBR	21.78	76	iP	47	33.60	-0.2
			iS	51	22.60	
			e	51	29.00	
			e	51	43.50	
FLN	21.98	54	eP	47	36.90	1.1
	1.4s		735.00nm			5.9mb
LFF	22.04	65	eP	47	35.20	-1.2
	1.3s		1060.00nm			6.1mb
MLS	22.17	70	iPd	47	38.00	0.3
SSC	22.17	55	eP	47	38.00	0.3
	1.0s		594.00nm			6.0mb
LPO	22.34	65	eP	47	38.10	-1.3
	1.4s		1010.00nm			6.1mb
WOL	22.42	47	Pd	47	42.80	2.8
	0.9s		244.00nm			5.7mb
RJF	22.63	64	eP	47	40.60	-1.7
	1.4s		521.00nm			5.8mb
LSF	22.77	61	eP	47	42.60	-1.0
CWF	22.98	44	Pd	47	47.30	1.8
	1.0s		221.00nm			5.6mb
CAF	22.98	65	eP	47	44.10	-1.6
TCF	23.24	61	eP	47	47.70	-0.5
EAB	23.35	34	iPc	47	49.70	0.6
	1.3s		1040.00nm			6.2mb
MZF	23.49	62	eP	47	50.00	-0.6
EAU	23.53	36	iPc	47	50.90	0.0
	1.3s		********nm			7.2mb X
EBL	23.68	36	eP	47	52.40	0.0
	1.3s		876.00nm			6.2mb
EDI	23.70	36	eP	47	53.10	0.6
			eS	52	21.00	
EBH	23.75	35	ePc	47	53.20	0.2
	1.3s		1240.00nm			6.3mb
ELO	23.80	34	iPc	47	54.20	0.7
	1.3s		872.00nm			6.2mb
DUR	23.82	39	Pc	48	00.00	6.3X
EGL	23.87	36	iPc	47	54.40	0.2
	1.3s		884.00nm			6.2mb
AVF	24.09	61	eP	47	56.00	-0.4
	1.0s		203.00nm			5.7mb
EDU	24.15	35	ePc	47	56.70	-0.2
	1.3s		748.00nm			6.1mb
SSF	24.23	60	eP	47	57.40	-0.4
	1.3s		528.00nm			6.0mb
SMF	24.40	61	eP	47	59.20	-0.3
	1.0s		531.00nm			6.1mb
LOR	24.50	59	eP	48	00.00	-0.4
	1.4s		521.00nm			6.0mb
SSB	24.76	64	ePd	48	02.50	-0.5
DOU	25.53	53	Pc	48	09.60	-0.6
			e	48	11.00	
			i	48	14.20	
			S	52	40.00	
			PcP	52	43.60	
UCC	25.57	51	P	48	11.00	0.5
			e	48	16.00	
			S	52	44.00	
REY	25.63	6	iP	48	13.70	2.8
LRG	26.03	69	eP	48	14.10	-0.8
	1.3s		555.00nm			6.1mb
MBO	26.12	156	iP	48	15.10	-0.8
			i	48	18.60	
			i	48	24.60	
			i	48	35.60	
			i	48	40.10	
			i	48	49.10	
LMR	26.14	69	eP	48	15.10	-0.8
	1.5s		387.00nm			5.9mb
SPF	26.27	68	eP	48	16.20	-0.9
	1.2s		315.00nm			5.9mb
HAU	26.27	58	eP	48	15.50	-1.7
	1.0s		219.00nm			5.8mb
WLF	26.42	55	ePc	48	18.00	-0.4
			S	52	51.00	
DBN	26.42	49	ePc	48	20.00	1.6
			i	48	31.00	
			iS	52	54.00	
MEM	26.53	52	P	48	19.60	0.2
			e	48	22.90	
			e	50	02.70	
			e	52	20.90	
BSF	26.55	59	eP	48	18.60	-1.2
	1.2s		450.00nm			6.0mb
HEE	26.58	52	eP	48	21.00	1.1
			e	48	32.50	
BAF	26.68	59	P	48	19.70	-1.3
ECH	26.84	58	P	48	21.00	-1.4
			eS	52	58.00	
CDF	26.94	58	eP	48	22.10	-1.3
	1.3s		687.00nm			6.2mb
WLS	26.99	58	P	48	22.50	-1.3
STR	27.29	57	P	48	24.50	-1.9
			i	48	28.20	
WTS	27.36	50	iPd	48	27.80	0.8
			i	48	35.30	
			iPP	49	11.80	
WIT	27.50	48	eP	48	30.50	2.2
			i	48	39.00	
ZUL	27.58	60	P	48	26.50	-2.7
BUB	27.75	59	P	48	28.50	-2.2
CVF	27.91	70	eP	48	30.90	-1.3
STU	28.25	57	ePd	48	35.50	0.4
	1.5s		222.00nm			5.7mb
SAL	28.98	64	iP	48	42.00	0.3
OGA	29.34	61	eP	48	44.50	-0.7
GAP	29.39	60	eP	48	44.80	-0.7
KDS	29.55	148	iP	48	48.00	0.9
FIR	29.56	68	iPd	48	46.00	-1.0
			iS	53	30.00	
FUR	29.58	59	iPd	48	47.10	0.0
	1.3s		1110.00nm			6.5mb
			eS	53	44.00	
GRF	29.68	56	eP	48	42.70	-5.3X
	1.4s		140.00nm			5.6mb
	Z 12s		371.00um			7.2MszX
			i	48	53.60	
			eS	53	45.50	
BER	29.93	33	iP	48	50.60	0.5
ZGN	29.99	83	eP	48	51.50	0.5
MOX	30.05	54	eP	48	51.00	-0.3
	3.4s		4750.00nm			6.7mb X
	N 17s		374.00um			
HOF	30.17	55	iPd	48	51.70	-0.7
	1.0s		550.00nm			6.4mb
BHG	30.63	60	eP	48	55.10	-1.3
WET	30.71	57	iPd	48	57.00	-0.1
RMP	30.83	71	ePd	48	58.00	-0.2
			iPP	49	50.00	
			iS	54	06.00	
CLL	31.01	53	ePc	48	58.00	-1.7
			i	49	02.00	
			i	49	06.00	
			e	49	39.00	
			PP	50	12.00	
			i	51	09.00	
			S	54	03.00	
			SS	55	27.00	
			SSS	55	44.00	
			e	57	36.00	
MIM	31.06	295	eP	48	59.20	-1.0
	1.0s		91.00nm			5.6mb
KHC	31.16	57	P	48	59.60	-1.5
	1.1s		46.00nm			5.3mb
			i	49	06.60	
			e	49	17.20	
			e	50	10.20	
			S	54	09.50	
TRI	31.25	64	iPd	49	00.70	-1.1
			i	49	07.50	
			iS	54	08.00	
AQU	31.27	70	eP	49	01.20	-1.0
			i	49	03.00	
BRN	31.30	51	iPd	49	06.50	4.3X
KON	31.48	36	iP	49	03.70	0.0
KMR	31.48	59	iPd	49	04.00	0.1
BRG	31.55	54	iPd	49	04.50	0.1
			PP	50	09.00	
			S	54	17.00	
			e	01	00.00	
COP	31.55	44	ePc	49	04.00	-0.4
	1.0s		360.00nm			6.2mb
			iPP	49	55.00	
			iPPP	50	02.00	
			iS	53	48.00	
MOA	31.57	60	iPd	49	02.50	-2.2
			i	49	05.00	
			i	49	11.00	
			i	49	15.00	
			S	54	05.00	
			e	02	25.00	
LJU	31.77	63	eP	49	04.00	-2.5
			i	49	13.40	
			eS	54	13.40	
KTG	31.84	4	iPc	49	07.20	0.4
	1.3s		577.00nm			6.3mb
			iPP	50	13.00	
			i	54	05.00	
			iS	54	21.00	
PRU	31.85	55	Pc	49	07.00	-0.1
DUI	32.15	71	eP	49	09.00	-0.8
NBO	32.60	34	P	49	15.20	1.7
	1.7s		38.50nm			5.1mb
BNH	32.68	294	eP	49	13.30	-1.1
	1.2s		71.50nm			5.5mb
FLR	32.95	289	eP	49	13.40	-3.3X
	0.8s		57.00nm			5.6mb
VKA	32.95	59	eP	49	14.00	-2.7
			PP	50	28.00	
			i	54	39.00	
			e	02	00.00	
VIE	32.98	59	eP	49	14.00	-2.9
			PP	50	30.00	
			e	02	00.00	
WES	32.99	290	eP	49	16.10	-1.0
KSP	33.03	54	iPd	49	18.00	0.6
			i	49	24.50	
SOP	33.12	60	eP	49	16.00	-2.1
	1.0s		80.00nm			5.6mb

01d 16h

GDH		33.51	344	iPd	49	22.00	0.7	SJG		39.15	249	iP	50	10.00	0.3			1.3s	616.00nm		6.4mb								
		1.2s	594.00nm			6.4mb				1.1s	633.00nm			6.2mb		SIM		45.52	61	ePd	51	01.00	-0.4						
				iS	54	32.00			Z	20s	9.22um			5.6MszX						iS	57	38.00							
				iSS	56	43.00						iS	56	11.50		MOS		45.70	46	Pd	51	04.00	1.4						
HFS		33.57	37	iP	49	20.60	-1.4					i	58	57.00						iS	57	53.00							
		1.1s	101.00nm			5.7mb		CMP		39.17	63	eP	50	14.00	4.3X	ANTO		46.07	69	iPd-	51	06.50	0.7						
	Z	15s	223.00um			7.0MszX						iPP	51	39.00		KAS		46.29	66	iPd	51	08.00	0.4						
BLY		33.72	65	P	49	23.30	-0.2					eS	56	20.00		RES		46.98	340	eP	51	13.00	0.5						
QUA		33.75	291	eP	49	23.20	-0.5	KIR		39.21	27	P	50	09.40	-0.2			1.2s	348.00nm			6.3mb							
		1.3s	149.00nm			5.8mb						i	50	14.90		TOV		47.33	244	iPc	51	18.20	2.1						
UCT		33.76	290	eP	49	23.30	-0.5	TRO		39.47	24	iP	50	12.60	0.9			0.7s	115.00nm			6.1mb							
		1.5s	315.00nm			6.0mb		PVL		39.67	66	Pc	50	15.00	1.2	ELC		47.60	288	ePd	51	17.30	-0.6						
MNT		34.26	296	eP	49	27.00	-1.1	MLR		39.76	62	Pc	50	15.20	0.5	KVT		48.01	66	eP	51	20.50	-0.6						
		0.9s	66.00nm			5.5mb		ATH		39.94	74	ePc	50	18.50	2.5	LGN		48.13	245	eP	51	12.50	-9.7X						
PNY		34.28	295	eP	49	27.00	-1.3					ePP	52	00.00		GRT		48.13	287	eP	51	20.80	-1.2						
SRO		34.30	60	iP	49	28.00	-0.4					eS	56	20.00						ipP	51	29.00	27kmX						
	Z	11s	208.00um			7.1MszX		MRG		39.96	288	iPc	50	17.60	1.4	FVM		48.23	290	eP	51	22.00	-0.8						
				e(PP)	50	48.00		BUC		40.07	64	eP	50	18.00	1.0		Z	22s	110.00um			6.8Msz							
				e(S)	54	51.50						eS	56	20.50		SDV		48.55	244	iPc	51	26.70	1.0						
				i	55	04.10		KDZ		40.14	68	iPd	50	13.00	-4.7X			0.8s	100.00nm			5.9mb							
BCT		34.66	289	eP	49	30.80	-0.7	VRI		40.24	62	eP	50	19.00	0.6	HLW		48.90	82	iPc	51	28.00	0.0						
		1.0s	97.50nm			5.6mb		BAC		40.24	61	eP	50	19.00	0.6					iS	57	38.00							
FRB		34.71	329	ePd	49	36.00	4.3X					e	52	32.00		UAV		49.11	244	eP	51	31.60	1.6						
		1.2s	682.00nm			6.4mb						e	56	14.00		SOB		49.43	198	P	51	32.10	-0.1						
BUD		34.79	60	eP	49	31.00	-1.6	CLE		40.63	291	iPd	50	22.10	0.4					e	51	33.50							
KRA		35.33	56	ePc	49	35.90	-1.3					S	56	22.00						e	51	36.60							
		1.4s	814.00nm			6.4mb		KUK		40.84	136	Pc	50	21.00	-2.6	POW		49.49	288	iPd	51	30.80	-1.7						
	Z	12s	286.00um			7.2MszX		KJF		41.00	33	iP	50	24.70	0.3	SOB4		49.55	198	eP	51	22.50	-10.7X						
	N	12s	193.00um							0.8s	30.20nm			5.1mb		SOC		49.77	62	Pd	51	34.00	-0.5						
	E	12s	251.00um									i	50	32.50						iS	58	45.00							
				i	49	43.60						ePP	52	04.00		SOB3		49.92	197	eP	51	33.40	-2.5						
				iS	55	10.00						eS	56	34.00		FFC		50.83	314	ePd	51	41.40	-1.1						
UPP		35.36	38	iP	49	35.70	-1.6	BLA		41.03	285	iP	50	25.60	0.5			1.5s	630.00nm			6.3mb							
		1.5s	399.00nm			6.1mb				1.2s	237.00nm			5.8mb		KHE		51.34	12	Pc	51	47.30	1.2						
				i	49	41.80						eS	56	42.40						eS	58	58.00							
				iS	54	56.00		TRN		41.04	236	eP	50	26.30	1.1	BCR		51.65	244	iP	51	46.00	-3.3X						
SPC		35.54	57	eP	49	41.00	1.8			1.2s	195.00nm			5.7mb		PYA		51.89	60	P	51	52.80	2.0						
	Z	10s	101.00um			6.9MszX		SOD		41.30	28	P	50	28.10	1.3					ipP	51	53.40	2kmX						
				i	49	47.20						i	50	33.00						iS	59	05.20							
				i	51	09.00						eS	56	48.00		RLO		52.32	289	iPc	51	51.90	-2.2						
GPD		35.55	289	eP	49	38.20	-1.0	CFR		41.35	62	eP	50	28.00	0.5	CRO		52.83	287	eP	51	56.40	-1.5						
NIE		35.58	57	Pc	49	40.00	0.6	KIS		41.50	60	Pd	50	27.00	-1.7			1.5s	816.00nm			6.4mb							
				i	49	47.00						ipP	50	28.00	3kmX	TUL		52.99	290	ePd	51	57.10	-2.0						
				i	49	55.00						iS	56	34.00				1.3s	681.00nm			6.4mb							
OTT		35.74	296	eP	49	40.00	-0.7	PUL		41.66	40	Pc	50	30.00	0.2	RAM		53.01	68	i(P)	51	59.00	-0.3						
				pP	49	47.00	24kmX					isP	50	33.00		MBC		53.09	343	eP	51	58.30	-0.9						
JOS		35.76	58	eP	49	40.00	-0.9	DMK		41.84	67	eP	50	31.00	-0.6			1.3s	1080.00nm			6.6mb							
		1.6s	250.00nm			5.8mb		AAM		41.96	293	ePd	50	33.60	1.1	FUO		53.13	243	eP	52	02.00	1.3						
BEO		36.03	64	P	49	43.00	-0.2	KEV		42.12	25	iP	50	34.00	0.5	EBS		53.30	302	P	52	02.00	0.7						
				iPP	51	07.50				0.6s	52.50nm			5.4mb		LEN		53.64	64	Pd	52	06.00	2.0						
				iPPP	51	30.50						i	50	38.90		GRO		53.92	60	Pd	52	06.00	0.3						
				iS	55	30.20						ePP	52	16.00						iS	59	44.00							
WAR		36.05	52	ePc	49	46.00	2.7					eS	56	48.00		BOG		53.96	243	eP	52	06.50	-0.3						
	Z	16s	190.00um			7.0MszX		EDC		42.32	70	iP	50	36.90	1.3	BNG		54.13	117	iPc	52	06.10	-1.5						
				e	51	10.00		IZM		42.46	73	eP	50	38.20	1.4			1.0s	34.80nm			5.3mb							
				e	51	50.00		AN7		42.50	291	eP	50	38.00	1.0					i	52	08.10							
				e	53	02.00		AN4		42.70	290	eP	50	39.10	0.5					i	52	13.60							
				e	55	22.00		AN12		42.71	291	eP	50	40.10	1.4					i	54	06.60							
				e	56	34.00		AN1		42.79	291	eP	50	40.30	0.9					i	55	20.60							
TIM		36.45	63	P	50	02.00	15.3X	IST		42.95	68	iPd	50	49.40	8.8X					eS	02	06.60							
UZH		36.92	58	Pd	49	50.50	-0.1					i	57	05.00		ERE		54.33	64	Pd	52	07.40	-1.5						
				iS	55	33.00						eS	00	32.00		CHN		54.81	245	iP	52	13.00	0.2						
OHR		36.94	71	iP	49	51.40	0.5	AN8		42.98	291	eP	50	41.80	0.9	YKC		55.01	326	eP	52	08.50	-5.0X						
				i	50	00.40		ISK		42.99	68	eP	50	41.00	0.0			0.8s	32.00nm			5.4mb							
				i(S)	55	46.40		AN9		42.99	291	eP	50	42.10	1.0	YKA		55.06	326	P	52	13.50	-0.4						
SKO		37.22	69	iPd	49	52.90	-0.4	AN10		43.04	291	eP	50	42.40	0.9	MAK		55.23	60	Pd	52	15.80	0.5						
				i	49	58.50		AN11		43.17	291	eP	50	43.10	0.6					iS	00	01.00							
				i	50	17.00		KBS		43.25	10	iPc	50	44.80	2.2	KRV		55.42	63	Pd	52	16.00	-0.8						
				i	50	43.00						i	50	48.00		HKT		55.70	283	iP	52	18.00	-0.9						
				iPP	51	21.20						S	57	10.00		GRS		55.89	64	Pd	52	19.60	-0.8						
				i	53	45.00		ACM		43.44	294	eP	50	44.30	-0.3					iS	00	00.00							
DEV		37.60	62	Pc	49	58.00	1.6					epP	50	52.60	28kmX	LD3		56.14	305	eP	52	20.50	-1.5						
UME		37.72	33	P	49	57.50	0.4	PRM		43.62	281	eP	50	46.20	0.0			1.0s	90.00nm			5.8mb							
				i	50	04.70		APA		43.86	29	Pc	50	48.40	0.7	TAB		56.50	66	iPd	52	24.00	-0.8						
BMR		37.80	59	eP	50	00.00	2.0					eS	57	19.00		ARU		56.91	41	eP	52	26.00	-1.3						
LVV		37.98	56	Pd	50	00.00	0.5	TKL		44.10	284	iP	50	51.40	1.3	SHE		57.02	62	Pd	52	30.00	1.8						
				iS	55	53.00		ALT		44.37	71	iPc	50	53.10	0.8	SES		57.45	311	eP	52	31.00	-0.2						
VAY		38.19	70	iPd	50	01.40	0.0	ORT		44.42	285	eP	50	52.90	0.3			1.6s	1070.00nm			6.6mb							
CANY		38.36	293	eP	50	02.70	-0.1	CAR		44.84	242	iPc	50	56.00	-0.4	EDM		57.67	315	ePd	52	31.00	-1.7						
KIC		38.42	141	iPc	50	02.20	-1.4			1.2s	100.00nm			5.6mb				1.6s	1100.00nm			6.6mb							
SOF		38.45	67	iPd	50	05.00	1.4	NAT		44.97	191	iPc	51	02.20	5.0X	GLD		58.10	298	ePd	52	34.80	-1.3						
DRA		38.73	64	eP	50	08.00	2.1	ELL		45.00	74	iP	50	59.70	2.2	GOL		58.23	298	eP	52	35.70	-1.4						
NUR		38.93	39	iP	50	07.80	0.5	OBN		45.18	47	Pc	51	00.00	1.5			1.0s	35.20nm			5.4mb							
		1.5s	280.00nm			5.7mb						iS	57	37.00			Z	20s	37.50um			6.5Msz							
				i	50	14.90		RCC		45.19	260	eP	50	59.00	0.0	LUB		58.51	290	eP	52	37.00	-1.9						
				ePP	51	36.00		BCK		45.26	73	iPc	51	00.50	1.0	PSO		58.67	243	eP	52	39.00	-1.6						
				eS	56	04.00		ALE		45.32	354	eP	50	59.00	-0.3	LPS		58.94	263	eP	52	43.00	0.9						

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			eS	00	58.00		ORV		69.11	304	iP	53	46.40	-2.0				SS	09	52.00		
BDW	59.71	302	iPd	52	45.00	-2.3	WDC		69.21	306	iP	53	49.20	0.2	CLK	79.81	120	eP	54	51.00	0.7	
	1.0s	42.40nm			5.5mb		PMR		69.30	334	eP	53	49.00	-0.1	MDZ	80.87	214	iP	54	56.90	1.3	
			epP	52	54.10	30kmX			1.0s	125.00nm			6.0mb					i	55	07.50		
MSA	59.97	295	e(P)	52	49.50	0.1		Z	20s	52.00um			6.8Msz		ZAK	81.34	29	eP	54	58.00	0.2	
			ipP	52	57.80	27kmX		N	20s	22.50um								iS	05	15.10		
INK	59.98	336	eP	52	47.00	-1.5		E	20s	44.00um					MGD	81.46	1	ePc	55	01.00	2.7	
	1.9s	2190.00nm			7.0mb		JAS		69.30	302	iPd	53	48.80	-0.8				isP	55	05.00		
COM	60.10	267	iP	53	49.00	58.8X	PEC		69.31	297	eP	53	49.00	-0.7	PEL	81.91	215	Pc	55	02.00	1.0	
DCI	60.18	304	eP	52	59.70	9.2X	FRI		69.34	301	iP	53	46.70	-3.1X	SAN	82.15	215	P	55	03.50	1.2	
OAQ	60.49	243	iPc	52	53.50	0.4	NVS		69.70	35	P	53	51.20	-0.4				ipP	55	13.40	31kmX	
RXF	60.50	311	iPc	52	53.20	0.7	PAS		69.87	298	iPd	53	48.00	-5.1X				e	22	04.00		
MSO	60.69	308	ePd	52	53.20	-0.6			2.5s	1500.00nm			6.7mb		NPA	82.35	116	P	55	07.00	3.4X	
	1.1s	246.00nm			6.2mb			Z	20s	57.00um			6.8Msz					PcP	55	14.00		
	N 18s	175.00um						N	20s	69.00um								S	05	38.00		
	E 21s	161.00um						E	20s	63.00um					DDI	82.59	57	P	55	05.30	0.4	
LDM	60.79	310	iPc	52	54.40	0.0					ePP	56	24.00					S	05	17.10		
NCE	60.81	242	eP	52	55.60	0.1					eS	03	04.00		PRE	82.83	131	iPc	55	04.30	-1.8	
YKM	60.85	311	iPc	52	55.50	0.6	FHC		70.00	307	eP	53	56.00	2.2		1.1s	101.00nm			5.9mb		
TEH	61.17	66	eP	52	54.50	-2.8	TAS		70.25	53	Pd	53	57.00	1.7		N 19s	11.70um					
ALQ	61.20	293	ePd	52	58.00	0.5					iS	03	05.00			E 20s	11.30um					
MOT	61.50	288	iP	52	58.20	-1.5	ARN		70.36	302	eP	53	56.20	0.1	LNV	82.91	215	P	55	06.50	0.4	
NEW	61.95	311	iP	53	01.00	-1.3	MHC		70.43	302	iPd	53	56.20	-0.4				i	55	13.50		
	Z 19s	265.00um			7.4Msz		PRI		70.45	301	iPd	53	56.50	-0.3	NDI	83.10	59	P	55	07.50	0.1	
	N 19s	105.00um					TTA		70.52	338	eP	53	56.40	-0.3				eSg	19	20.00		
	E 19s	180.00um					BKS		70.52	303	eP	53	58.20	1.2	PRY	83.30	132	eP	55	09.70	1.2	
NRI	62.43	21	Pc	53	06.40	1.3			0.8s	34.00nm			5.5mb			0.7s	22.60nm			5.5mb		
KAT	62.89	60	Pd	53	09.50	1.0		Z	20s	67.00um			6.9Msz		SUR	83.98	140	P	55	12.50	0.6	
			iS	01	43.00			N	20s	112.00um					CER	84.03	142	e(P)	55	23.50	11.6X	
PNT	62.91	313	eP	53	07.50	-1.1		E	20s	48.00um						1.2s	62.50nm					
	1.8s	578.00nm			6.5mb						e	54	05.00		PKR	84.14	136	P	55	13.50	0.8	
VHO	63.13	271	iP	53	08.00	-2.6					e	54	46.00		CNG	85.63	129	eP	55	22.00	2.0	
IIT	63.34	274	iP	53	16.00	3.8X					ePP	56	38.00			1.0s	29.30nm			5.4mb		
SVM	63.60	292	eP	53	13.00	-0.6					eS	03	16.00					ePcP	55	30.00		
			ipP	53	21.00	26kmX					e	03	46.00					eScS	05	45.00		
IIP	63.64	274	iP	53	19.00	4.9X					e	05	16.00					eS	06	06.00		
IIC	63.67	275	eP	53	13.20	-1.1	NAI		71.25	108	iPc	54	07.00	5.1X				e()	26	26.00		
TAC	63.82	274	eP	53	23.00	7.7X			2.6s	538.00nm			6.2mb		BOM	86.29	69	P	55	29.00	5.5X	
GCA	63.82	297	eP	53	14.20	-0.7	ILT		71.39	349	Pd	54	02.40	0.7				PP	58	46.00		
IIM	63.85	274	iP	53	18.00	2.5					isP	54	05.00					PPP	00	53.50		
BRV	64.43	344	e(P)	53	18.60	0.4					eS	03	21.00		GRM	87.69	137	eP	55	39.10	9.1X	
			e	53	27.20		ELT		72.10	35	eP	54	05.00	-1.2		1.3s	177.00nm			6.2mb		
III	64.61	274	iP	53	20.00	-0.4					eS	03	32.00			Z 17s	53.70um			7.0MszX		
SHI	65.07	71	iPd	53	22.50	-0.7	GAR		72.23	54	P	54	07.00	-0.4	KAD	88.30	69	Pd	55	34.00	0.6	
			e(S)	02	14.00						isP	54	11.50		VLV	88.60	213	Pd-	55	35.50	1.4	
PGC	65.43	313	eP	53	20.50	-4.4X	SLA		72.38	216	Pd	54	08.20	-0.1	GOA	89.20	71	P	54	38.50	-59.1X	
TUC	65.64	293	eP	53	26.40	-0.3	KUL		72.51	55	Pd	54	09.10	0.1	VAR	89.20	58	Pd	55	39.50	2.0	
Z	18s	22.40um			6.4Msz						iS	03	37.30					PP	59	15.00		
BMN	65.86	303	iPd	53	27.20	-0.9	FRU		72.59	49	eP	54	10.40	1.0	LSA	91.23	50	P	55	50.90	3.4X	
	1.0s	57.60nm			5.7mb		KDC		73.26	333	eP	54	14.50	1.6				P	55	53.90		
			i	53	35.20		ANT		73.88	220	eP	54	18.00	1.1	HYB	91.39	66	ePc	55	48.40	0.6	
PRN	65.98	299	eP	53	28.50	-0.4					iS	03	51.20			1.6s	490.00nm			6.6mb		
ZOBO	66.52	223	P	53	32.10	-0.8	KHO		73.90	55	eP	54	18.00	0.7	BOK	92.04	57	P	55	55.00	4.3X	
MAIO	66.57	62	Pd-	53	33.00	0.4	WIN		74.11	137	iPc	54	19.20	0.7	BTO	92.09	31	P	55	51.50	0.7	
COL	66.57	336	eP	53	32.00	-0.1			1.0s	50.00nm			5.5mb					eP	55	54.50		
			eS	02	26.00		NRN		74.26	49	eP	54	21.00	1.5				PP	59	35.50		
FBA	66.57	336	eP	53	32.50	0.4	PRZ		75.01	47	eP	54	25.00	1.4				SKKS	06	35.50		
	1.0s	50.00nm			5.7mb		QUE		75.15	63	eP	54	24.20	-0.4	GBA	93.08	70	P	55	55.00	-0.5	
LPB	66.72	222	Pc	53	33.00	-1.1					eS	04	05.00			1.0s	18.00nm			5.5mb		
	1.5s	417.00nm			6.4mb		KSH		75.47	51	P	54	28.60	2.4	LZH	93.13	37	P	55	58.10	2.3	
			i	53	35.00						P	54	32.50					P	56	01.10		
			S	02	28.00						S	04	02.60					PP	59	43.60		
SIT	66.81	325	eP	53	38.50	4.9X					ScS	04	40.60		YSS	94.15	7	Pc	56	06.00	6.0X	
PNL	66.95	329	eP	53	35.90	1.3	KRI		77.07	124	P+	54	36.00	0.6	CN2	94.30	19	P	56	04.80	4.0X	
TNP	67.09	301	ePd	53	34.10	-2.0	YAK		77.90	11	Pc	54	38.70	-0.5				PP	59	50.90		
HUA	67.24	232	iPd	53	37.00	-0.4					eS	04	33.10		CAL	94.63	56	P	55	48.00	-14.6X	
IMA	67.50	339	eP	53	38.00	-0.1	SDN		77.92	335	eP	54	40.40	1.0				PPP	01	10.00		
MNV	67.53	302	iP	53	37.50	-1.2	MTD		78.32	123	eP	54	41.00	-1.3				S	06	47.00		
ARO	67.80	93	iP	53	40.00	-0.6	BAA		78.36	205	P	54	42.30	0.4				PS	07	43.00		
			eS	02	57.20						S	04	42.70		SHL	94.68	52	Pc	56	04.00	0.9	
WCN	68.11	303	eP	53	41.80	-0.6					LQ	15	39.10					S	07	18.00		
GLA	68.13	295	eP	53	42.00	-0.4					LR	19	01.10		BJI	94.90	27	P	56	03.40	-0.2	
NNA	68.14	233	iPc	53	41.80	-0.8	LPA		78.46	205	iPc	54	41.20	-1.3				P	56	07.40		
	1.2s	284.00nm			6.3mb			Z	20s	16.30um			6.4Msz					PP	59	55.40		
			i	53	51.50						iS	04	39.20		KOD	95.29	72	eP	56	08.00	1.9	
			eS	02	42.00		SEY		78.66	360	Pc	54	43.40	0.2		Z 20s	48.60um			7.0Msz		
LM2	68.35	233	iP	53	46.50	2.7					isP	54	47.40					eS	07	00.00		
ARE	68.51	225	eP	53	45.00	-0.2					eS	04	48.40		MDR	95.48	69	P	56	09.50	2.9	
			eS	02	47.00		BUL		78.88	127	eP	54	45.00	-0.4				S	07	23.50		
			eSS	07	01.00		TET		79.19	121	P	54	46.00	-0.9	VLA	96.41	15	Pc	55	59.80	-10.7X	
			eLQ	10	33.00						PP	57	49.00		XAN	97.17	35	P	56	15.30	1.2	
VPEM	68.64	299	e(P)	53	47.10	1.4	WMQ		79.22	42	P	54	49.70	2.8				P	56	18.30		
			i	53	53.70						P	54	52.70					PP	00	15.30		
TIK	68.64	8	eP	53	45.00	0.1	MOY		79.42	30	ePc	54	48.00	0.4				SKS	07	02.30		
MIN	68.74	305	iP	53	44.90	-1.4					eS	04	55 00					eS	07	33.30		
KPK	68.97	304	eP	53	47.10	-0.5	CFA		79.51	214	Pc	54	49.50	1.1	CDU	97.60	40	P	56	18.60	2.5	
			i	53	54.00						S	04	52.00					P	56	21.60		

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			PP	00	17.60				N 20s	7.00um				MOYM	1.41	283	iPc	34	09.93	-0.2
			eS	07	39.60				E 20s	40.00um				BFC	1.43	335	ePc	34	11.20	0.6
TIA	98.64	28	P	56	26.10	5.5X		PMG	150.40	10	ePKP	02	32.00	3.8X	MCUM	1.47	285	iPc	34	10.94	0.1
			PP	00	25.90				Z 19s	41.00um			7.2Msz		MRFM	1.49	296	iPd	34	11.14	-0.1
GYA	102.36	41	Pdiff	56	38.90	1.3		DRV	151.23	170	PKP	02	33.40	5.6X	KVN	1.56	21	ePd	34	12.60	0.2
			P	56	40.90			LUG	153.36	326	PKPd	02	35.00	2.6X	CFWM	1.57	152	ePd	34	13.30	0.8
			PP	00	51.40			PVC	154.76	322	PKP	02	35.00	0.8	BIS	1.66	337	ePd	34	14.73	0.9
WHN	102.52	33	Pdiff	56	39.60	1.6		WRA	155.68	45	PKP	02	41.00	5.5X	MNHM	1.66	290	ePc	34	14.13	0.4
			P	56	42.60				1.6s	61.10nm					CGSM	1.71	145	ePd	34	14.92	0.4
			PP	00	53.60			WB2	155.69	44	ePKP	02	39.40	3.9X	CPTM	1.71	152	ePd	34	15.40	0.8
NJ2	102.99	29	Pdiff	56	45.30	5.3X					i	03	09.00		HWSM	1.72	150	iPd	34	15.30	0.6
			PP	00	59.30						ePP	06	44.70		BAVM	1.75	272	iPc	34	19.75	4.8
MAT	103.93	12	ePdiff	56	49.00	4.8X		ASP	158.33	51	ePKP	02	44.00	5.2X	RVCM	1.76	154	ePd	34	16.02	0.9
	1.5s		61.10nm			6.2mb					e	03	18.00		BRMM	1.77	245	iPc	34	17.71	2.5
	Z 19s		4.51um			6.0Msz		ISQ	158.94	35	ePKP	02	45.00	5.5X	CSSM	1.79	151	ePd	34	16.35	0.8
SSE	104.71	27	Pdiff	56	50.70	3.0X					e	07	01.00		ADWM	1.80	298	ePd	34	16.42	0.7
			eP	56	53.70			KOU	159.06	327	PKPc	02	40.40	0.8	AODM	1.81	305	iPd	34	16.97	1.1
SHK	104.83	17	ePdiff	56	52.70	4.5X		NOU	159.55	319	PKPd	02	41.10	1.0	PARM	1.81	222	iPc	34	17.27	1.4
			e	01	14.70			GNZ	159.88	262	ePKP	02	51.00	11.0X	WCHM	1.82	160	iPd	34	17.15	1.0
QZH	109.22	32	Pdiff	57	14.80	6.9X		WTZ	160.57	265	ePKP	02	48.00	7.3X	WKTM	1.83	170	iPd	34	17.74	1.6
			iPP	01	43.80						e	03	31.00		BMSM	1.83	240	iPc	34	17.44	1.3
ANP	110.17	30	Pdiff	57	19.00	6.7X		CTA	160.66	17	PKP	02	41.00	-0.3	VPEM	1.84	153	ePd	34	17.14	0.8
			S	11	12.00						i	03	25.00		WCN	1.86	337	ePc	34	17.45	0.7
SNA	110.36	171	e(PKP)	01	07.00	-5.8X					iPP	07	11.00		RCWM	1.90	150	iPd	34	17.86	0.7
TCU	110.77	31	PKP	02	04.30	49.3X					iSKKP	17	27.00		WNMM	1.90	157	ePd	34	18.12	0.9
HEN	112.72	32	ePKP	01	29.00	10.3X					iSS	27	22.00		HCPM	1.92	259	iPc	34	18.86	1.4
TSI	115.12	63	ePKPc	00	52.00	-31.6X		KRP	161.69	265	ePKP	02	43.40	1.6	ALAM	1.94	301	iPd	34	18.80	1.1
PIP	115.93	34	ePKP	01	33.40	8.4X					e	03	36.00		WHFM	1.94	168	iPd	34	19.72	2.0
			eS	02	32.60						e	07	22.00		ISA	1.95	171	iPd	34	19.51	1.5
PSI	115.94	63	ePKPd	01	31.50	6.3X		MNG	162.01	257	ePKP	02	48.00	5.9X	WWPM	1.95	162	ePd	34	19.25	1.2
IPM	116.03	60	ePKPc	01	23.10	-2.3X					e	03	36.00		LLA	1.95	241	iPc	34	19.10	1.2
BAG	117.61	35	PKP	01	29.00	0.5		WEL	162.56	255	ePKP	02	48.00	5.4X	WORM	1.96	166	ePd	34	19.23	1.2
			e	02	38.00			MJZ	165.36	243	ePKP	02	52.00	6.7X	PRCM	1.96	228	iPc	34	18.98	0.9
BAG	117.61	35	Pdiff	57	44.00	-1.7		BRS	168.62	357	PKP-	02	55.40	7.3X	PCRM	1.98	221	iPc	34	19.20	0.9
MSP	117.67	35	ePKP	01	39.50	10.8X					i	04	06.20		CMPM	1.99	264	iPc	34	19.58	1.1
			eS	02	40.90						i	04	16.40		WCOM	2.00	171	iPd	34	20.25	1.5
PGP	120.34	36	ePKP	01	41.50	8.0X					e()	06	53.00		ARJM	2.00	304	ePd	34	19.47	0.9
LGP	121.87	33	ePKPc	01	41.50	5.1X					e	07	39.00		HVC	2.01	233	iPc	34	19.92	1.2
			eS	02	50.20						ePP	07	51.40		BBGM	2.02	241	iPc	34	20.50	1.5
RUV	122.35	276	ePKP	01	47.00	9.7X					e	09	08.00		COSM	2.02	268	iPc	34	20.02	1.0
	1.2s		30.00nm								eSKKKS	15	18.00		CLC	2.04	151	ePc	34	20.04	0.9
PPR	122.49	40	ePKP	01	44.50	6.9X		TAU	174.46	140	ePKP	02	59.00	8.8X	PCL	2.04	255	iPc	34	20.24	1.1
			eS	03	08.00						e	29	48.00		WSCM	2.04	158	ePd	34	19.70	0.5
MAW	125.43	152	ePKP	01	48.00	6.3X					e	36	30.00		EMT	2.04	243	iPc	34	20.45	1.3
CGP	126.48	35	ePKP	01	53.20	7.8X		TOO	174.56	79	ePKP	02	53.00	2.5X	QSR	2.05	249	iPc	34	20.52	1.2
GUMO	127.45	9	e(Pdif	58	32.00	2.7X					e	04	27.00		PRI	2.07	226	iPnc	34	20.70	1.0
MPP	127.55	33	ePKP	01	55.50	7.9X		SAV	175.17	129	ePKP	02	59.00	8.6X	PSMM	2.08	223	iPc	34	20.89	1.0
	1.5s		320.00nm					CAN	175.69	38	ePKP	02	59.80	9.0X	PSRM	2.09	214	iPc	34	21.11	1.2
DAV	128.08	34	PKP	01	51.00	2.5X					e	04	37.50		EKH	2.09	244	iPc	34	21.30	1.4
			eS	04	00.00						ePP	08	34.30		MOP	2.09	229	ePc	34	21.02	1.0
SPA	128.60	180	ePKPd	01	47.00	-1.1			S.D. = 1.2		on 354 of 451 obs.				WHVM	2.10	173	iPd	34	21.85	1.7
	1.0s		35.00nm												SBT	2.10	240	iPc	34	21.47	1.4
	Z 20s		25.60um			6.9Msz		&	MAY 25, 1980 16h 33m 44.14s						VPK	2.10	334	ePc	34	21.60	1.3
			i	04	08.20				37.598 N				118.829 W		AGIM	2.10	307	ePd	34	20.95	0.9
LEM	128.77	63	e(PKP)	01	53.00	3.0X			DEPTH = 8.0km (geophysicist)						LTR	2.10	251	ePc	34	21.30	1.2
			eS	03	56.00				6.2mb (54 obs.) 6.2Msz (12 obs.)						LRV	2.11	237	iPc	34	21.24	1.1
MNI	132.70	39	e(PKP)	02	07.00	9.7X			CALIFORNIA-NEVADA BORDER REGION (40)						AFHM	2.11	314	ePd	34	21.64	1.3
AFI	139.72	298	ePKP	02	23.00	12.6X			<GS>. Seven people injured,						TRC	2.11	219	iPc	34	21.48	1.2
			PP	05	00.00				damage (VII) and rockslides in						WLPM	2.11	171	iPd	34	22.00	1.5
			e	06	00.00				the Mammoth Lakes-Crowley Lake						BTW	2.11	233	iPc	34	21.35	1.1
			e	12	10.00				orea, Californio. Rockslides						HJSM	2.12	249	iPc	34	21.59	1.3
			e	17	36.00				olso occurred in Yosemite						CMMM	2.12	267	iPc	34	21.51	1.0
			SKKS	18	33.00				Nationol Park. Total domoge						PTV	2.12	226	iPc	34	21.23	0.8
			SS	23	44.00				estimoted at 2 million dollors.						WCXM	2.13	152	iPd	34	20.93	0.4
			SSP	24	08.00				Surfoce foulting and ground						PKF	2.13	217	iPc	34	21.37	0.8
			SSS	28	45.00				cracks observed in the						PMRM	2.13	212	iPc	34	21.60	1.0
			LQ	40	00.00				epicentrol oreo. Felt in on oreo						GRX	2.14	18	ePd	34	20.75	0.0
			LR	48	00.00				of approximately 272,000 sq. km.						SFL	2.14	254	ePc	34	21.92	1.3
SBA	140.35	185	PKP	02	06.00	-3.7X			of Californio ond Nevodo.						BSBM	2.14	247	ePc	34	21.92	1.2
			PP	05	10.00										PSTM	2.14	219	ePc	34	21.66	1.0
			PKS	05	37.00			CLKR	0.01	152	iPd	33	45.63	-0.3	BVL	2.15	242	iPc	34	22.04	1.3
			e	24	00.00			ORC	0.14	75	iPc	33	47.60	0.1	GHS	2.15	257	iPc	34	22.10	1.3
JAY	142.40	19	ePKP	02	18.20	2.9X		LMCR	0.16	325	iPc	33	48.25	0.5	GHC	2.15	215	iPc	34	21.25	0.5
	1.0s		85.90nm					MONR	0.46	5	iPc	33	53.53	0.0	BSCM	2.15	244	iPc	34	22.15	1.4
			eS	05	29.00			BONR	0.55	49	iPc	33	54.90	-0.4	WBMM	2.15	175	iPn	34	22.64	1.6
MOM	143.16	8	ePKP	02	20.00	3.5X		TIN	0.72	138	iPg	33	58.40	-0.3	ADC	2.16	309	ePd	34	21.74	0.9
KVG	143.93	2	ePKP	02	17.00	-0.8		FRI	0.93	229	iPc	34	01.60	-0.4	BLRM	2.16	245	iPc	34	22.45	1.5
RAB	145.56	0	PKPc	02	20.00	-0.6		MNA	0.99	32	iPd	34	03.00	-0.2	PHAM	2.16	216	iPc	34	21.77	0.8
WAB	145.97	15	PKP	02	21.50	-0.1		RYN	1.06	13	iPc	34	04.30	-0.1	ARN	2.17	264	iPc	34	22.11	1.1
MDG	146.11	12	ePKP	02	16.00	-5.5X		FERR	1.12	27	iPc	34	05.50	0.1	AHRM	2.17	306	iPd	34	22.50	1.5
MTN	148.10	42	ePKP	02	26.00	1.4		MMWM	1.17	294	iPd	34	05.90	-0.3	PHGM	2.17	218	eP	34	21.85	0.7
KNA	149.17	48	ePKP	02	31.00	4.7X		MBFM	1.22	274	iPc	34	06.80	-0.2	BPIM	2.17	240	iPc	34	22.03	0.9
SVA	149.26	305	ePKP	02	33.50	7.2X		MSTM	1.29	284	iPd	34	07.57	-0.6	BSLM	2.17	249	iPc	34	22.47	1.4
SWV	149.86	88	ePKP	02	32.00	5.1X		CWC	1.30	152	iP*	34	08.10	-0.5	ARRM	2.18	303	ePc	34	22.52	1.3
HNR	149.96	345	ePKP	02	34.00	6.5X		JAS	1.32	286	iPc	34	08.42	-0.3	PAGM	2.18	212	iPc	34	22.13	0.8
MUN	150.01	88	ePKP	02	32.00	4.9X		TNP	1.36	69	iP*	34	10.00	0.4	HKRM	2.19	252	iPc	34	22.79	1.5
	Z 20s		57.00um			7.4Msz		CRH	1.40	288	iPd	34	09.54	-0.4	PKH	2.19	251	ePc	34	22.85	1.6

25d 16h

CDC	2.19	256	ePc	34	22.79	1.4	ADL	3.24	159	ePd	34	37.22	0.8	POW	22.13	85	eP	38	40.60	-1.2
HSPM	2.19	258	iPc	34	22.94	1.5	SDW	3.30	154	ePd	34	37.64	0.3	SIT	22.34	336	eP	38	43.80	0.2
BCGM	2.20	247	iPc	34	22.73	1.3	BLU	3.31	164	ePd	34	38.21	0.7				e	38	52.30	
WJPM	2.20	173	iPd	34	23.13	1.5	TWL	3.32	177	ePc	34	40.02	2.6	FVM	22.42	80	ePc	38	44.60	0.0
LRC	2.23	233	iPc	34	22.90	1.0	SI2	3.39	180	ePd	34	39.83	1.4				i	38	51.50	
MNR	2.23	271	ePc	34	22.77	0.8	MWC	3.42	169	ePd	34	40.32	1.2				e	45	42.00	
BMCM	2.23	246	iPc	34	22.85	0.8	RDM	3.46	157	ePd	34	40.00	0.5	ELC	23.47	82	eP	38	54.40	-0.4
WKR	2.24	218	iPc	34	22.86	0.8	ROD	3.47	148	iPd	34	39.71	0.1	GRT	23.50	84	eP	38	57.30	2.1
CTLM	2.24	272	ePc	34	23.07	1.0	MIN	3.49	323	ePnd	34	41.00	1.0				i	39	04.50	
CBSM	2.24	276	iPc	34	23.47	1.3	PEM	3.51	167	ePd	34	41.62	1.6	CHI	24.29	70	P	39	04.00	1.2
PMCM	2.24	214	iPc	34	22.91	0.8	SS2	3.55	162	ePd	34	41.42	0.8	IIC	24.62	131	iP	39	08.50	2.0
SAO	2.25	249	iPnc	34	23.20	1.0	SIL	3.63	153	ePd	34	42.48	0.5	TAC	24.94	131	iP	39	18.00	8.5
PIVM	2.25	222	iPc	34	23.04	0.8	PCF	3.64	166	ePc	34	43.80	1.9	IIM	25.00	131	iP	39	10.00	-0.2
MHC	2.25	264	iPnc	34	23.60	1.2	GAV	3.72	163	ePd	34	44.14	0.9	III	25.58	133	iP	39	17.50	2.0
BMHM	2.26	247	iPc	34	23.10	0.7	HDG	3.77	146	iPd	34	43.80	-0.1	ACM	25.62	68	eP	39	14.50	-1.0
CDVM	2.27	270	ePc	34	23.05	0.6	RVR	3.79	161	ePd	34	45.00	0.9	PNL	25.72	336	eP	39	18.60	2.3
ADR	2.27	260	ePc	34	24.00	1.5	RMR	3.84	151	ePd	34	45.17	0.2	IIT	25.76	130	iP	39	21.50	4.2
HSFM	2.27	251	iPc	34	23.79	1.2	RCH	3.85	148	ePd	34	44.51	-0.5	FCC	26.56	29	eP	39	25.00	1.0
SHG	2.27	239	iPc	34	23.57	1.0	VPD	3.87	167	ePd	34	46.50	1.2	AN9	26.70	73	Pd	39	24.50	-1.1
APRM	2.27	305	ePd	34	23.74	1.2	COQ	3.88	164	ePd	34	46.34	0.8	AN10	26.74	73	iPd	39	25.20	-0.7
DIXR	2.28	15	ePd	34	22.60	-0.1	LED	3.91	142	ePd	34	45.23	-0.6	AN8	26.91	74	Pd	39	26.10	-1.3
PSAM	2.28	227	ePc	34	23.58	0.9	MRVC	3.92	150	ePd	34	47.40	1.3	AN4	27.20	74	eP	39	29.00	-1.1
ARWM	2.28	307	ePc	34	23.47	0.8	PEC	3.94	159	ePn	34	47.00	0.8	AN3	27.24	73	Pd	39	29.80	-0.6
CSAM	2.28	273	ePc	34	23.70	1.0	WWR	4.01	153	ePd	34	48.01	0.8	AAM	27.25	69	P	39	30.80	0.3
CMNM	2.29	272	ePc	34	21.40	-1.3	VG2	4.10	156	ePd	34	49.51	1.1				S	44	10.00	
FRP	2.29	249	iPc	34	23.63	0.8	WDC	4.15	317	iPnd	34	49.70	0.6	UTO	27.34	70	iPc	39	30.80	-0.5
CSR	2.29	255	iPc	34	23.63	0.9	TPC	4.15	146	ePd	34	49.26	0.0	ORT	27.62	83	eP	39	33.60	-0.4
COE	2.29	262	ePc	34	24.30	1.5	SPM	4.18	137	ePd	34	48.57	-1.1	VHO	28.09	130	iP	39	40.00	1.5
HBTM	2.30	252	iPc	34	24.20	1.3	INS	4.24	149	ePd	34	50.32	-0.3	TKL	28.10	83	eP	39	38.50	0.1
JHC	2.30	244	iPc	34	23.53	0.6	SNS	4.29	166	ePd	34	51.77	0.6	CLE	28.88	71	iPc	39	56.20	11.0
AFRM	2.32	302	ePc	34	24.82	1.7	KEE	4.33	155	ePd	34	52.39	0.5				S	44	42.00	
ANZ	2.32	253	iPc	34	24.08	0.9	PNMC	4.37	145	ePd	34	51.61	-0.9	PRM	29.65	86	eP	39	51.90	-0.4
HGWM	2.33	256	iPc	34	24.09	0.8	CTW	4.59	147	ePd	34	55.06	-0.4				e	49	26.00	
CBO	2.33	259	ePc	34	24.34	1.0	TTM	4.60	134	ePd	34	54.75	-0.9	KDC	29.85	323	eP	39	56.50	2.7
HJGM	2.33	251	ePc	34	24.08	0.7	VSTC	4.62	163	ePd	34	56.43	0.6	MRG	30.29	74	iPc	39	57.40	-0.5
MHR	2.34	265	ePc	34	24.81	1.3	HOT	4.65	156	ePd	34	56.93	0.4				eS	46	26.00	
BSRM	2.34	247	iPc	34	24.90	1.3	COY	4.70	153	ePd	34	56.48	-0.5	BLA	30.37	79	iPd	39	58.70	0.0
YEG	2.34	203	iPc	34	24.57	1.0	BC2	4.79	144	ePd	34	57.21	-1.3				iS	45	08.00	
ALNM	2.35	305	ePc	34	24.80	1.2	KNB	4.82	95	eP	34	57.80	-1.2	JSC	30.47	85	eP	39	58.50	-1.0
CBC	2.35	254	iPc	34	24.69	1.0	LTM	4.86	138	ePc	34	57.38	-2.0	PMR	30.51	332	eP	40	01.90	2.3
SVC	2.36	263	ePc	34	25.20	1.4	JULC	4.89	158	ePd	34	59.97	0.2		1.0s	62.50nm				5.4mb
CVR	2.37	267	ePc	34	24.92	1.0	RVS	4.99	134	ePd	35	00.19	-1.0		Z 20s	5.20um				5.2Msz
MTC	2.37	276	ePc	34	25.20	1.2	SUP	5.24	151	ePc	35	04.04	-0.7	INK	31.81	350	ePc	40	11.70	0.8
DIL	2.37	252	iPc	34	24.47	0.5	MSU	5.33	78	eP	35	05.00	-1.2		2.0s	811.00nm				6.3mb
JRRM	2.37	258	iPc	34	24.78	0.8				i	35	06.50		COL	32.23	337	eP	40	16.00	1.3
PKC	2.37	255	ePc	34	24.97	1.0	DUG	5.36	59	iP	35	06.50	0.0				eS	45	40.00	
PSHM	2.38	213	ePc	34	25.00	1.0	GLA	5.59	143	ePd	35	07.81	-1.9	FBA	32.23	337	iPc	40	16.30	1.6
CVLM	2.39	272	ePc	34	25.67	1.5	GCA	5.80	94	eP	35	12.80	0.1	OTT	32.90	62	eP	40	25.00	4.4
DOO	2.39	274	ePc	34	25.38	1.2				i	35	17.30		SDN	33.11	316	e(P)	40	32.60	10.2
AVRM	2.39	307	ePc	34	24.35	0.2	MFW	8.30	2	eP	35	50.50	2.8	TTA	33.93	330	eP	40	30.60	1.0
JSTM	2.40	262	ePc	34	25.13	0.9	TUC	8.45	126	eP	35	49.50	-0.4	SOR	34.07	105	eP	40	33.00	1.9
PRS	2.40	239	iPnc	34	25.30	1.0	DCI	8.64	40	eP	35	55.50	2.9				eS	46	07.00	
PJLM	2.40	232	iPc	34	25.45	1.1	BDW	8.77	51	iPc	35	55.00	0.6	MNT	34.36	62	eP	40	32.50	-0.9
HCOM	2.40	254	ePc	34	25.05	0.7	LON	9.41	347	iPd	36	07.30	4.3	IMA	34.86	336	iPc	40	39.60	2.0
CPNM	2.41	272	ePc	34	25.68	1.2		2.0s	1510.00nm				7.1mb	LPS	35.10	123	eP	40	45.20	5.1
MSJ	2.42	269	ePc	34	25.73	1.1	SVM	9.87	116	eP	36	11.50	2.0		1.7s	365.00nm				6.0mb
CACM	2.42	256	ePc	34	25.58	1.0	MSO	9.91	20	iPc	36	11.50	1.6				eS	46	15.00	
ABJM	2.43	311	eP	34	25.48	0.7		1.3s	2130.00nm				7.4mb X	HDM	35.59	69	eP	40	43.30	-0.6
JFS	2.43	157	ePd	34	25.14	0.2	MSA	10.24	90	eP	36	15.10	0.2	HVO	36.51	251	eP	40	52.00	-0.1
EUC	2.44	258	ePc	34	25.67	0.8	ALQ	10.33	101	eP	36	15.00	-0.9				eS	46	50.00	
JHLM	2.44	259	ePc	34	25.83	0.8	GMW	10.36	345	eP	36	18.40	2.4	KIP	37.42	256	eP	41	05.00	5.5
AMC	2.44	261	ePc	34	25.83	0.9				i	36	23.20					eS	47	08.00	
CRGC	2.46	197	ePc	34	26.36	1.1	NEW	10.73	6	ePd	36	23.40	2.2	MIM	37.60	62	eP	41	00.20	-0.6
BMTC	2.46	176	iPd	34	27.29	1.9	GOL	10.73	75	eP	36	23.00	1.5	MBC	38.74	360	ePc	41	11.40	1.4
HCZM	2.47	255	ePc	34	25.90	0.6	LDM	11.15	12	iPd	36	30.40	3.6		1.7s	981.00nm				6.2mb
BPCM	2.47	246	ePc	34	25.92	0.6	YKM	11.48	10	iPd	36	35.00	3.5	RES	38.86	10	eP	41	12.00	1.0
TMB	2.57	193	ePd	34	28.01	1.2	PGC	11.55	345	eP	36	33.50	1.3		1.2s	176.00nm				5.6mb
GCC	2.59	258	iPnc	34	27.50	0.5	RXF	11.58	12	iPd	36	35.60	2.8	SCH	38.91	47	ePd	41	11.20	-0.5
BKS	2.71	277	iPn	34	29.60	0.8	PNT	11.73	357	eP	36	38.00	3.3		0.9s	157.00nm				5.7mb
FTC	2.72	181	ePd	34	30.74	1.7	LD3	12.80	42	ePc	36	49.60	0.5	FRB	39.66	32	eP	41	18.00	0.3
ABL	2.76	187	ePd	34	30.65	0.9				i	36	56.20		RCC	41.27	103	P	41	34.00	2.5
GSC	2.81	144	ePd	34	30.30	0.0	SES	13.96	21	eP	37	06.00	1.6	ADK	42.38	309	e(P)	41	40.60	0.3
PKM	2.81	197	iPc	34	31.09	0.7	MOT	14.07	115	iP	37	10.10	3.9				e	41	43.40	
PCC	2.83	269	iPnc	34	30.80	0.4	LUB	14.37	101	eP	37	12.50	2.5				e	41	48.60	
ORV	2.86	314	iPnd	34	31.00	0.0	PHC	14.47	338	eP	37	20.00	9.0	ILT	44.50	332	Pc	41	59.30	2.0
SWM	2.88	176	ePd	34	33.38	2.1	EBS	15.14	55	P	37	24.40	4.5				esP	42	04.00	
EUR	2.93	49	iPn	34	32.20	0.1	EDM	16.08	12	eP	37	32.50	0.4				iS	48	39.00	
LHU	2.94	173	ePd	34	33.62	1.5	JCT	17.28	109	iP	37	50.40	3.1	GDH	46.69	26	ePd	42	16.00	1.4
RYS	2.98	188	ePd	34	34.37	1.6				iS	41	12.00					iPP	44	07.00	
FLSC	3.00	151	ePd	34	33.52	0.3	TUL	18.53	88	iPc+	38	03.20	0.4				iS	49	15.00	
SBB	3.02	164	ePc	34	32.84	-0.3		2.0s	5140.00nm				6.4mb				iSS	52	30.00	
BMN	3.09	23	iPn	34	34.00	-0.3		Z 22s	70.70um					STJ	48.32	56	eP	42	26.00	-1.7
LJB	3.10	165	ePd	34	35.06	0.7				eS	41	41.50		ALE	48.69	8	eP	42	30.00	-0.2
LRRC	3.13	168	ePd	34	35.82	1.1				e	01	00.00			1.3s	167.00nm				5.9mb
ECF	3.14	184	ePd	34	36.68	1.8	RLO	19.09	87	iPc	38	09.30	-0.3	SJG	49.78	98	eP	42	37.50	-1.9
IRC	3.22	174	ePd	34	37.66	1.6	HKT	20.55	105	eP	38	27.00	1.3		1.0s	140.00nm				5.9mb
JNH	3.22	167	ePd	34	36.11	0.0	FFC	20.63	29	eP	38	24.00	-2.4		Z 20s	17.70um				6.1Msz

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			i	42	47.00		SAP		71.71	310	eP	45	10.00	1.5	HEE		79.46	32	iPd	45	54.60	2.3
			eS	49	56.00		DCN		71.87	36	iPc	45	10.90	1.7					e	46	00.00	
LGN	50.65	110	eP	42	55.00	9.0			1.0s		54.00nm			5.6mb	MEM		79.68	32	Pc	45	57.00	3.5
UAV	51.75	111	eP	43	01.50	6.9	LPB		71.92	129	P	45	10.00	-0.5					PP	49	03.00	
TOV	51.99	109	eP	42	58.20	2.0					iS	54	41.00						SKS	56	10.50	
FUQ	51.99	117	eP	42	59.00	2.4	EDI		72.02	32	eP	45	10.90	0.8	PUL		79.69	15	Pd	45	55.00	1.6
BOG	52.35	118	eP	43	01.50	2.2			0.9s		40.00nm			5.5mb					esP	46	00.00	
BOCO	52.39	118	e(P)	43	00.80	1.1	SOD		72.12	13	eP	45	11.00	0.5					eS	56	02.00	
PSO	52.61	123	eP	43	02.00	0.7					i	45	17.10		SLA		79.71	132	Pd	45	54.50	0.3
CAR	53.70	106	eP	43	07.50	-1.5	EBL		72.18	32	eP	45	11.30	0.2	MFF		79.80	38	iPc	45	55.60	1.4
CUM	55.84	104	eP	43	19.30	-5.2			0.9s		32.00nm			5.4mb			2.2s		1060.00nm			6.4mb
SEY	56.78	327	Pc	43	31.40	0.7	BER		72.19	26	iP	45	13.00	2.0	BNS		79.90	31	iPd	45	58.00	3.3
			isP	43	37.00		DLE		72.24	36	eP	45	12.20	0.7	MTE		80.10	46	P	45	58.20	2.1
			eS	51	30.00		EGL		72.25	32	eP	45	11.80	0.3	CN2		80.25	319	P	45	57.10	0.4
PET	56.87	314	Pd	43	32.00	0.6			0.9s		29.00nm			5.4mb					PP	48	59.00	
			esP	43	36.00		DDK		72.27	36	eP	45	13.20	1.6	LIS		80.26	48	Pd	45	57.30	0.5
			eS	51	25.00		DKM		72.39	36	iPc	45	13.80	1.4					iPcP	46	02.60	
KTG	57.31	23	iPc	43	34.70	0.3			1.0s		56.00nm			5.6mb	WLF		80.45	33	eP	45	59.00	1.4
	2.0s	565.00nm				6.3mb	EKA		72.42	33	Pc	45	12.30	-0.2					PP	49	08.00	
			i	44	00.00				0.9s		15.00nm			5.1mb X					SKS	56	14.00	
			iS	51	40.00		NAO		73.67	23	P	45	20.40	0.7					PS	57	01.00	
MGD	58.45	324	ePc	43	43.00	0.5			1.9s		600.00nm			6.3mb	LSF		80.86	37	iPc	46	00.80	0.9
			esP	43	44.50		UME		73.85	18	P	45	20.40	-0.2			2.2s		831.00nm			6.4mb
			eS	51	50.00						i	45	26.20		TLL		81.01	139	P	46	04.50	3.4
RUV	58.97	213	eP	43	53.00	6.5	HPK		74.01	33	P	45	22.60	0.9	TCF		81.16	37	iPc	46	02.80	1.3
	1.2s	190.00nm				6.1mb	BOD		75.06	334	eP	45	28.00	0.2			2.1s		549.00nm			6.2mb
VAH	59.12	213	eP	43	54.00	6.5	HFS		75.09	22	P	45	28.70	0.8	SSF		81.20	36	iPc	46	03.30	1.6
	1.2s	155.00nm				6.0mb			1.0s		46.00nm			5.5mb			2.2s		852.00nm			6.4mb
SKR	59.20	312	eP	43	46.00	-1.8		Z	24s		15.80um			6.2MszX	LOR		81.22	35	iPc	46	03.50	1.7
REY	59.74	30	eP	43	58.20	6.9	KJF		75.15	14	iPd	45	29.00	0.8	AVF		81.33	36	iPc	46	03.50	1.1
KBS	60.28	10	iPd	43	56.40	1.5			1.1s		38.10nm			5.3mb			1.9s		425.00nm			6.2mb
			i	44	00.00			Z	20s		17.50um			6.4Msz	MZF		81.39	37	iPc	46	03.90	1.2
AKU	60.54	28	iP	43	58.60	1.8		N	20s		9.60um				LFF		81.41	39	iPc	46	04.50	1.7
	1.9s	1000.00nm				6.6mb		E	20s		7.50um						1.5s		239.00nm			6.0mb
	Z 16s	9.50um				6.0MszX					i	45	35.00		LGR		81.49	42	iPd	46	06.10	2.8
	N 18s	25.00um									ePP	48	26.00						ePP	49	22.00	
	E 18s	15.00um					ANT		76.09	135	P	45	40.00	6.0	RJF		81.53	38	iPc	46	04.80	1.3
			i	44	03.60						S	55	28.00				1.5s		236.00nm			6.0mb
TIK	61.27	340	Pc	44	01.30	-0.4					ScS	55	48.00		SMF		81.67	36	iPc	46	05.20	1.1
			isP	44	06.50						SS	00	54.00				1.7s		253.00nm			6.0mb
			eS	52	25.00		TSK		76.46	305	eP	45	36.00	-0.2	HAU		81.79	34	eP	46	06.30	1.5
KHE	62.02	1	Pc	44	08.00	1.3	UPP		76.47	21	P	45	36.10	0.4			2.2s		777.00nm			6.4mb
			eS	52	32.00						i	45	41.80		LPO		81.82	39	iPc	46	06.50	1.6
TVO	62.08	213	eP	44	19.00	11.2					iS	55	24.00				2.1s		556.00nm			6.3mb
	1.2s	170.00nm					DDR		77.18	306	eP	45	41.40	1.1	CDF		81.88	33	eP	46	06.90	1.6
NNA	63.11	133	P	44	16.00	1.4	VLA		77.19	315	eP	45	39.00	-1.0			2.1s		557.00nm			6.3mb
YAK	66.51	331	Pc	44	36.70	0.7	SRY		77.37	305	eP	45	41.70	0.5	WLS		81.92	33	P	46	07.00	1.6
			eS	53	31.20		MAT		77.49	306	eP	45	43.00	1.1	CLL		81.93	28	iPd	46	06.90	1.5
KUR	66.58	310	eP	44	37.00	0.2			1.6s		307.00nm			6.2mb					i	46	12.00	
			eS	53	36.00			Z	20s		3.19um			5.6Msz					PP	49	20.00	
YSS	68.71	313	ePd	44	52.00	1.9					eS	55	33.00						(SKS)	56	26.00	
			esP	44	56.10		OYM		77.50	305	eP	45	42.10	0.1					PS	57	16.00	
			eS	53	57.00		NUR		77.75	18	iP	45	44.80	2.0	MOX		81.93	29	ePd	46	07.00	1.6
ARE	69.79	131	eP	44	57.00	-0.5			1.0s		640.00nm			6.7mb			2.3s		767.00nm			6.4mb
			eS	54	20.00			Z	22s		4.81um			5.8Msz		Z	19s		16.40um			6.4Msz
			eLQ	02	40.00	.	STS		77.90	45	eP	45	44.50	0.5		E	19s		35.80um			
KEV	70.08	12	eP	44	59.00	0.9	FLN		78.11	37	iPc	45	46.30	1.3					ePP	49	22.00	
			i	45	04.60				2.3s		1420.00nm			6.7mb					eS	56	30.00	
			eS	54	12.00		GRR		78.20	37	iPc	45	46.90	1.4	ECH		81.98	33	P-	46	07.50	1.7
			ePS	54	44.00				2.3s		1640.00nm			6.7mb					ePP	49	12.00	
KIR	70.50	15	P	45	01.00	0.2	DBN		78.22	31	iPd	45	48.00	2.5					eS	56	24.00	
			i	45	02.20			Z	18s		8.80um			6.1Msz					eSS	01	40.00	
			i	45	06.80						i	45	54.00		CAF		82.08	38	iPc	46	07.60	1.3
			i	13	04.70						iPP	48	49.00		BUH		82.09	32	eP	46	07.80	1.5
KMU	71.17	309	eP	45	06.30	1.0					iS	55	52.00		BSF		82.11	34	eP	46	07.90	1.3
VAL	71.31	38	ePd	45	07.00	1.1	COP		78.23	26	ePd	45	47.00	1.5			1.8s		489.00nm			6.3mb
			PP	47	52.00			Z	20s		16.00um			6.3Msz	BAF		82.20	33	P	46	08.50	1.5
			S	54	32.00						iPP	48	52.00		TEN		82.20	60	P	46	03.50	-3.7
			SS	59	12.00						iS	55	50.00						(S)	56	40.30	
			SSS	02	33.00						iPS	56	25.00		SHK		82.25	308	eP	46	07.80	0.4
			LR	07	26.00		WIT		78.30	30	eP	45	50.00	4.1	STU		82.42	32	iPd-	46	10.50	2.5
EAB	71.36	32	eP	45	05.90	-0.2	LPF		78.36	37	iPc	45	47.90	1.5			2.0s		471.00nm			6.3mb
	0.9s	22.00nm				5.3mb			1.9s		651.00nm			6.4mb		Z	20s		12.80um			6.3Msz
AFI	71.36	235	eP	45	12.00	5.2	SSC		78.42	36	iPc	45	47.90	1.2	TOL		82.43	45	P	46	09.50	1.3
			S	54	35.00				2.3s		1130.00nm			6.5mb					iS	56	35.00	
			SS	58	52.00		UCC		78.84	33	Pc	45	50.60	1.7					iPS	57	20.00	
			SSS	02	40.00						PP	48	52.00						iSS	01	37.00	
			e	06	00.00						S	55	55.00		GRF		82.53	30	iPd	46	11.10	2.5
ELO	71.44	32	eP	45	06.90	0.2	WTS		78.97	31	iPd	45	51.90	2.3		Z	20s		10.70um			6.2Msz
	0.9s	52.00nm				5.6mb					e	45	57.00						e	46	16.70	
NRI	71.48	350	Pc	45	06.00	-0.7					ePP	48	56.00						eS	56	39.80	
			isP	45	12.00		PTO		79.00	46	eP	45	50.00	0.0	EPF		82.58	40	iPc	46	10.30	1.3
EBH	71.67	32	eP	45	08.20	0.2					eS	55	42.00				2.5s		1240.00nm			6.6mb
	0.9s	52.00nm				5.6mb					eSKS	55	53.00		BRG		82 63	28	iP	46	10.70	1.7
DMU	71.68	35	iPc	45	09.50	1.3					eSS	00	50.00				2.2s		665.00nm			6.4mb
	1.0s	58.00nm				5.6mb	DOU		79.46	33	Pc	45	54.50	2.2		N	19s		19.20um			
ZOBO	71.70	128	P	45	08.80	-0.6					SKS	56	06.00			E	19s		31.80um			

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			i	46	17.00					e	23	00.00					iS	57	50.00				
			e	47	02.00		NVS	85.93	347	P	46	26.30	0.7	RDJ	93.03	117	P	47	01.00	1.5			
			eS	56	36.80					eS	57	00.80					ePPP	52	48.80				
IRK	82.93	335	eP	46	09.00	-1.6	SVE	85.95	0	Pd	46	27.00	1.3				eS	58	06.00				
			eS	56	28.00					isP	46	32.00					ePPS	59	44.00				
BUB	82.96	33	P	46	12.00	1.1				eS	56	58.00		GIB	93.12	35	P	46	56.80	-3.2			
SSB	83.01	36	iPd	46	12.80	1.6	SOP	86.23	28	P	46	24.00	-3.3				ePP	50	52.00				
MLS	83.01	40	iPd	46	18.00	6.8				ePcP	46	26.00					eSKS	57	31.30				
ZUL	83.08	33	P	46	12.50	1.0				e	47	24.00		OHR	93.40	29	eP	47	02.90	1.7			
CEN	83.19	139	e(P)	46	14.00	1.8				e	48	46.00					i	47	08.10				
PRA	83.47	28	iP	46	15.00	1.6	SPC	86.29	26	eP	46	30.10	2.3	MES	93.65	34	P	47	13.00	10.7			
			e	46	21.00			Z 15s	14.80um				6.5MszX				ePP	50	51.00				
			PP	49	36.00					i	46	36.50					iPS	59	38.00				
			PPP	51	28.00		ARU	86.34	1	eP	46	28.00	0.4	VAY	93.90	28	eP	47	04.40	1.0			
			S	56	50.00					isP	46	33.50		SIM	94.28	19	eP	47	06.00	0.9			
			PS	57	42.00					eS	57	00.00		WMQ	95.47	341	P	47	11.40	0.7			
SFS	83.50	48	iP	46	16.00	2.2	UER	86.65	340	Pc	46	30.50	1.3				PP	51	03.40				
			iPP	49	52.00		GUA	86.73	284	e(P)	46	30.00	-0.2	XAN	96.03	322	P	47	15.10	1.7			
			iS	56	44.00		GUMO	86.73	285	e(P)	46	31.00	0.8				PP	51	12.30				
KSP	83.51	27	eP	46	15.00	1.4				eS	57	09.50		KRP	96.47	226	eP	47	17.00	2.1			
PRU	83.57	28	Pd	46	16.20	2.3	TRI	86.75	31	iPd	46	32.00	2.2				S	58	58.00				
	1.8s	87.50nm			5.7mb					iPP	49	58.00					PS	00	05.00				
			i	46	21.70					eS	57	10.00		LZH	96.71	326	P	47	18.80	2.2			
			eS	56	50.00					i	11	10.00					PP	51	13.80				
			i	57	38.00		SRO	86.77	27	iPd	46	33.00	3.1	SOC	96.88	16	eP	47	17.00	0.0			
FUR	83.76	31	eP	46	17.50	2.6		N 20s	15.90um					PYA	97.11	13	eP	47	19.00	0.9			
			eS	56	50.00			E 20s	20.20um								isP	47	26.00				
KHC	83.90	29	Pd	46	17.80	2.1				e	49	59.00		ATH	97.24	29	eP	46	18.00	-60.7			
			esP	46	23.00					iS	57	13.00					e	47	23.00				
WAR	83.93	23	eP	46	17.00	1.3	LJU	86.79	30	eP	46	31.50	1.4	TLG	98.18	348	eP	47	24.00	1.0			
	Z 20s	12.30um			6.3Msz					eS	57	30.00		GRO	98.21	11	eP	47	29.00	6.0			
			e	49	23.00		ELT	86.94	345	eP	46	30.00	-0.6	ANTO	98.62	22	e(P)	48	28.00	62.9			
			e	56	55.00		JOS	86.98	26	ePd	46	33.00	2.1	MAK	98.80	10	eP	47	28.00	2.4			
MDZ	84.17	140	e(P)	46	16.40	-0.7		1.5s	90.00nm				5.8mb	FRU	99.02	350	eP	47	25.00	-1.8			
EBR	84.24	42	eP	46	19.00	1.6	LVV	86.98	23	Pd	46	33.50	2.6				eS	58	58.00				
			(PP)	49	43.00					eS	57	13.00		WEL	99.19	224	eP	47	43.00	15.9			
			(S)	56	49.00		PRT	87.08	34	P	46	39.00	7.6				PP	51	40.00				
ORO	84.33	34	P	46	20.50	2.5				iS	57	22.50					S	59	14.00				
MOY	84.52	336	ePc	46	21.00	2.4	CVF	87.10	36	eP	46	33.20	1.5				PS	00	32.00				
CRT	84.53	47	iPc	46	23.00	3.9	FIR	87.23	34	P	46	35.00	2.8				LR	19	00.00				
OGA	84.68	32	iPd	46	22.50	2.7				S	57	26.00		BKR	99.42	13	Pc	47	35.90	7.1			
RAC	84.82	26	P	46	22.00	1.8	PSZ	87.25	26	P	46	34.00	1.6	NRN	100.19	349	ePdiff	47	35.00	2.7			
ZAK	84.87	334	Pd	46	22.50	2.1	UZH	87.46	25	Pd	46	34.00	0.8	LEN	100.41	13	ePdiff	47	40.00	6.9			
			eS	56	42.00					iS	57	15.00		ERE	101.10	13	ePdiff	47	44.00	8.0			
MOS	84.88	13	Pd	46	23.00	2.6	ZAG	87.55	30	eP	46	52.90	19.2	TAS	101.10	354	ePdiff	47	37.00	1.1			
			isP	46	26.00					eS	57	20.00		ANR	101.35	351	ePdiff	47	40.00	2.9			
			eS	56	52.00		BJI	87.73	321	eP	46	35.10	0.4	BAK	101.71	9	ePdiff	47	56.00	17.4			
BAO	84.92	114	eP	46	22.20	0.9		Z 17s	3.40um				5.8MszX	GRS	102.07	12	Pdiffd	47	48.40	7.9			
KMR	84.99	30	iPd	46	23.80	2.7		E 19s	5.10um					HKC	102.32	311	Pdiff	47	48.00	6.3			
			e	23	20.00					eSKS	57	04.00					S	01	07.00				
STV	85.09	36	P	46	25.50	3.7	HNR	88.82	257	eP	46	42.00	1.8	BAG	102.56	302	Pdiff	47	50.00	6.9			
MOA	85.21	30	iPc	46	23.50	1.3				eS	57	20.00		GAR	103.31	353	ePdiff	47	47.00	1.0			
			e	46	25.00		MNS	88.97	34	P	46	41.50	1.0	DSH	103.90	354	ePdiff	47	54.00	5.5			
OBN	85.23	14	eP	46	23.00	0.9	AQU	89.31	33	P	46	44.50	2.2				eS	59	43.50				
			iS	56	58.00		RMP	89.44	34	P	46	44.00	1.1	DAV	105.43	292	Pdiff	48	04.00	8.2			
LRG	85.24	37	eP	46	24.20	1.8				ePP	50	24.00		CTA	105.75	257	Pdiff	47	58.60	1.5			
	2.3s	1070.00nm			6.7mb					eS	57	28.00					iPP	52	23.00				
ROB	85.30	35	P	46	24.50	1.7	TIM	89.59	27	P	46	36.40	-7.0				iSKS	58	42.00				
SPF	85.31	36	eP	46	24.30	1.5	BEO	90.10	28	P	46	50.00	4.2				iSP	01	46.00				
	2.1s	718.00nm			6.5mb		TIA	90.13	318	P	46	48.20	2.0	MAIO	106.46	1	Pdiffd	48	09.00	9.0			
LMR	85 40	37	eP	46	24.80	1.6	DUI	90.33	33	P	46	49.00	2.1				e	51	13.00				
	2.3s	982.00nm			6.6mb					e	50	35.00		SHL	110.86	330	PKP	52	21.00	1.1			
ALM	85.42	46	iPd	46	31.20	7.8	MBO	90.48	71	eP	46	45.60	-2.4	NDI	112.37	345	PKP	52	14.00	-8.4			
	2.4s	6.00nm			4.4mb X					e	46	56.60					ePP	53	05.00				
	N 21s	0.80um								e	50	32.00					ePS	02	46.00				
KRA	85.44	25	ePd	46	24.60	1.3				e	50	53.00					eSS	09	00.00				
	2.2s	1000.00nm			6.6mb					e	51	16.00		CHG	113.58	321	ePKP	52	35.90	10.9			
	Z 20s	5.90um			6.0Msz					e	57	28.00		WB2	114.97	263	PKP	52	36.50	8.8			
	N 24s	21.00um					KIS	90.94	21	Pc	46	56.00	6.3	WRA	114.98	263	PKP	52	29.00	1.3			
	E 24s	20.00um								iS	57	39.00			0.6s	3.00nm							
			e	46	25.60		CMP	91.31	25	eP	47	00.00	8.5	ASP	117.32	260	ePKP	52	40.00	7.9			
			e	46	29.20		MLR	91.41	24	eP	46	51.00	-1.1	BCAO	122.41	53	ePKP	52	40.00	-2.0			
			e	46	41.60		SSE	91.62	312	eP	46	55.20	2.1	BNG	122.42	53	iPKPc	52	43.50	1.5			
			e	49	42.00			N 20s	2.12um						0.7s	11.10nm							
			e	51	42.00			E 18s	1.67um					SBA	123.27	194	ePKP	52	46.00	4.2			
			eS	57	00.00					eS	57	23.00		KAD	124.03	345	PKP	52	45.00	-0.1			
			e	02	07.40		NOU	92.03	243	Pd	46	57.00	2.1	PSI	126.80	310	ePKP	52	51.00	0.5			
			e	02	09.50		NJ2	92.28	314	P	46	58.40	2.3	GBA	126.83	340	PKPc	52	51.20	0.7			
			e	02	16.30		BUC	92.42	24	eP	46	42.00	-14.5		1.2s	8.60nm							
PCN	85.52	34	P	46	33.00	9.2	KOU	92.48	246	Pd	47	01.60	4.6	SPA	127.41	180	e(PKP)	52	48.50	-1.8			
VKA	85.66	28	iPd	46	26.50	2.1	TIR	92.83	30	P	47	01.70	3.2		0.7s	5.14nm							
			pP	46	32.00	17kmX	SKO	92.91	29	eP	47	00.10	1.2	KOD	130.03	339	ePKP	53	05.00	8.0			
			pPP	49	52.00					i	47	05.00					ePPP	56	30.00				
			S	57	01.00					iPP	50	42.00					SKS	00	06.00				
VIE	85.69	28	ePd	46	27.00	2.5				eSKS	57	40.00					PS	04	48.00				
			pP	46	32.00	16kmX				iS	58	13.00		LWI	133.94	48	iPKPd	53	08.10	3.7			
			S	57	00.00		SOF	92.99	27	eP	47	00.00	0.7	WIN	139.40	81	PKP	53	11.60	-2.7			

25d 16h

KRI	145.39	62	ePKP	53	26.00	1.2
CER	145.84	96	ePKP	53	26.50	1.5
	1.3s	442.00nm				
			()	09	13.00	
SUR	146.71	93	PKPc	53	41.90	15.2
BUL	146.82	68	ePKP	53	30.00	2.9
TET	147.61	56	PKP	53	31.00	2.8
CLK	148.18	54	PKP+	53	32.00	2.7
PKR	148.94	87	PKPd	53	40.00	9.8
PRE	149.70	77	PKPc	53	38.50	7.0
BLF	149.71	84	PKP	53	38.50	7.0
MAW	149.93	181	ePKP	53	36.00	5.7
NPA	150.34	47	PKP	53	40.00	7.5
CNG	153.05	74	PKP	53	48.00	11.8
AVY	157.99	36	ePKP	53	49.70	6.5
	579 obs. associoted					

JUN 29, 1980 07h 20m 07.02± 0.15s
34.825 N ± 1.1km 139.268 E ± 1.1km
DEPTH = 26.1 ± 1.0 km
5.8mb (71 obs.) 6.2Msz (14 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)
Eight people injured and considerable damage (V JMA) and landslides on the Izu Peninsula and on Oshima. Felt (IV JMA) at Kumagaya, Mishima, Toteyoma, Tokyo and Yokohoma; (III JMA) at Chichibu, Choshi, Irozaki, Kowoguchi-ko, Kofu and Utsunomiya; (II JMA) at Gifu, Kokioka, Koruizowo, Moebashi, Motsumoto, Mito, Nagoyo, Onohoma, Shizuoka and on Hachijo-jimo. Local tsunami generated in Sagami Bay. Maximum wave height (peak-to-trough) was 57 cm. at Okodo.

OSH	0.11	125	P*-	20	11.30	-0.6
KTJ	0.19	309	P*-	20	10.10	-2.6
AJI	0.26	327	P*-	20	11.30	-2.3
			iS	20	13.80	
MIS	0.40	316	P*-	20	13.70	-1.9
			S	20	20.60	
NGT	0.41	237	P*	20	16.70	0.9
TMS	0.47	78	P*	20	18.00	1.2
			iS	20	28.00	
OYM	0.59	358	iP*c	20	17.40	-1.4
YOK	0.69	27	P*	20	20.50	0.2
			iS	20	31.90	
SHZ	0.72	282	P*	20	20.00	-0.9
			iS	20	31.20	
SRY	0.78	0	iP*c	20	20.50	-1.4
FUN	0.79	329	P*	20	21.00	-1.1
KYS	0.81	63	iP*c	20	22.50	0.1
OMA	0.90	256	P*	20	23.00	-0.8
			eS	20	39.00	
TOK	0.95	25	P*+	20	24.30	-0.3
			eS	20	38.00	
KOF	1.02	326	P*-	20	24.00	-1.6
			eS	20	36.00	
DDR	1.17	357	ePn	20	26.80	-1.0
			eS	20	52.60	
TK04	1.23	249	Pn+	20	29.60	1.1
CHJJ	1.24	350	Pn-	20	27.70	-1.0
TK03	1.26	239	Pn+	20	30.40	1.5
HMM	1.28	265	Pn+	20	30.20	1.0
			iS	20	48.20	
IIDJ	1.29	301	Pn-	20	29.50	0.0
KMG	1.32	4	Pn	20	30.20	0.4
			S	20	48.60	
IID	1.36	301	Pn-	20	30.40	0.0
			S	20	48.60	
TK02	1.53	235	Pn	20	33.60	1.0
TSK	1.54	26	iPnc	20	32.00	-1.1
KAKJ	1.56	28	Pn+	20	32.30	-1.0
CHO	1.57	55	Pn+	20	33.70	0.2
			S	20	54.30	
MAE	1.58	354	Pn+	20	34.20	0.6
			S	20	57.40	
KAZ	1.62	339	Pn	20	35.00	0.7
			S	20	54.80	
TK01	1.75	233	Pn	20	36.00	0.3
MTM	1.77	324	Pn	20	39.10	2.8
			S	21	03.20	
HJJ	1.77	166	Pn-	20	39.00	2.6
			iS	21	03.50	
UTS	1.78	16	Pn	20	36.00	-0.5
MIT	1.83	32	Pn+	20	36.70	-0.6
			S	20	56.40	
MAJO	1.92	334	iPnd	20	39.10	0.6
MAT	1.92	334	Pn-	20	39.00	0.5
			S	21	03.00	
NAG	1.92	281	Pn-	20	40.30	1.8
			S	21	06.40	
NGN	2.03	335	Pn-	20	41.90	1.8
			iS	21	11.20	
TKY	2.11	309	Pn	20	43.00	1.7
			eS	21	12.60	
MTMJ	2.12	326	Pn-	20	42.60	1.0
GIF	2.13	286	Pn-	20	43.20	1.6
			eS	21	12.00	
TSU	2.27	268	Pn+	20	44.20	0.7
			iS	21	13.10	
SHR	2.42	18	Pn	20	45.00	-0.6
NIIJ	2.42	355	Pn+	20	45.50	-0.2
TKD	2.42	340	Pn-	20	47.70	2.0
			S	21	17.00	
ONA	2.50	32	Pn+	20	46.00	-0.8
TOY	2.52	319	Pn-	20	48.30	1.3
			S	21	22.00	
HIK	2.52	281	Pn-	20	48.70	1.6
			iS	21	20.70	
OWA	2.65	254	Pn+	20	48.70	-0.2
			S	21	18.40	
KAN	2.74	310	Pn-	20	52.20	2.0
FUK	2.77	297	Pn-	20	52.00	1.4
			eS	21	27.00	
TSRJ	2.78	286	Pn	20	51.00	0.2
			()	21	26.90	
NAR	2.83	268	Pn	20	52.20	0.7
KYO	2.91	275	Pn	20	53.30	0.7
			S	21	27.30	
OSK	2.98	267	Pn+	20	54.00	0.4
			iS	21	28.70	
FKS	3.08	18	Pn+	20	55.00	-0.1
			S	21	33.00	
NII	3.08	357	Pn+	20	56.50	1.4
			eS	21	35.80	
OSA	3.09	268	Pn+	20	55.80	0.6
			iS	21	33.00	
WKYJ	3.09	260	Pn	20	55.00	-0.3
WAJ	3.20	324	Pn	20	59.00	2.3
			eS	21	39.00	
SHJ	3.21	246	Pn-	20	57.20	0.3
			eS	21	33.00	
MAI	3.24	283	Pn	20	59.00	1.6
AIK	3.29	346	Pn	20	58.50	0.5
			eS	21	41.00	
OIC	3.34	259	ePnc	20	58.00	-0.8
YAMJ	3.40	10	Pn+	20	59.40	-0.2
WKY	3.44	261	Pn+	21	01.00	0.9
			iS	21	41.90	
YAM	3.53	14	Pn	21	02.00	0.5
			S	21	52.80	
SEN	3.67	20	Pn+	21	02.80	-0.6
			()	21	48.00	
TYK	3.71	282	Pn	21	04.00	0.1
HIM	3.76	271	Pn	21	05.10	0.5
			S	21	55.80	
ISN	3.95	24	Pn	21	08.00	0.7
			iS	22	02.40	
TKS	3.95	260	Pn+	21	07.60	0.3
			S	21	54.90	
SKH	4.06	8	Pn	21	10.00	1.0
TOTJ	4.15	280	Pn	21	12.00	1.8
TOT	4.23	281	Pn	21	11.00	-0.3
			eS	22	03.00	
TKM	4.33	265	Pn	21	12.10	-0.6
			iS	22	00.90	
TKSJ	4.40	260	Pn+	21	14.00	0.3
OKA	4.41	270	Pn	21	14.00	0.1
			iS	22	05.20	
MRT	4.51	251	Pn-	21	15.10	-0.3
			eS	22	12.50	
MIZ	4.55	19	iPnc	21	15.70	-0.3
HJH	4.56	9	Pn+	21	16.40	0.3
OFU	4.66	24	Pn	21	17.00	-0.5
			eS	22	12.00	
OFUJ	4.66	24	Pn+	21	16.30	-1.2
			eS	22	11.00	
YONJ	4.78	276	Pn	21	19.00	-0.2
KOC	4.92	257	Pn+	21	21.20	0.1
			S	22	19.80	
AKI	4.93	8	Pn+	21	23.50	2.3
			S	22	20.80	
SAI	5.03	288	Pn	21	21.00	-1.7
			eS	22	23.00	
MRK	5.09	17	Pn	21	24.00	0.4
			eS	22	24.00	
MTS	5.12	279	Pn	21	25.00	1.1
MIY	5.27	23	Pn	21	25.00	-1.1
			S	22	29.20	
HIR	5.65	267	Pn	21	32.00	0.5
			eS	22	33.00	
UWA	5.79	256	Pn	21	34.00	0.5
HMD	5.92	273	Pn	21	37.00	1.8
HAC	5.97	17	Pn+	21	36.80	0.9
			eS	22	51.00	
AOM	6.10	11	Pn	21	39.00	1.2
			eS	22	48.50	
OIT	6.54	258	Pn	21	46.00	2.0
			S	23	05.30	
NOB	6.70	253	Pn	21	47.00	0.7
			eS	23	08.00	
SHNJ	6.77	266	Pn	21	47.00	-0.3
SHN	6.94	265	Pn	21	49.00	-0.6
			S	23	05.20	
HAK	7.08	9	Pn	21	53.00	1.5
ASJ	7.09	256	Pn+	21	51.00	-0.8
			eS	23	15.00	
MYZ	7.17	248	Pn	21	54.40	1.6
			S	23	17.40	
KUMJ	7.40	254	Pn	21	57.00	1.0
KUM	7.40	257	Pn	21	56.00	0.0
SAG	7.61	261	Pn	21	58.00	-0.9
			S	23	28.60	
MRRJ	7.72	10	Pn	21	59.00	-1.5
UNZ	7.78	257	Pn	22	01.60	0.2
URA	7.82	20	Pn	22	02.00	0.1
			eS	23	31.00	
KAGJ	7.92	245	Pn	22	03.00	-0.3
KMU	7.95	20	ePn	22	01.80	-1.9
			eS	36	34.80	
KAG	7.99	248	P	22	04.80	0.5
SUT	7.99	5	Pn	22	05.00	0.7
			eS	23	34.00	
TAJ	8.07	242	P	22	06.00	0.6
			eS	23	45.00	
NGS	8.10	258	P	22	06.20	0.4
			eS	23	37.40	
CBI	8.10	161	P	22	04.00	-1.9
			S	23	44.50	
HOOJ	8.18	21	P	22	03.00	-3.8X
IZU	8.25	269	P	22	13.00	5.0X
			eS	23	47.00	
SAP	8.38	10	P	22	12.50	2.9
			eS	23	58.00	
FKJ	8.94	259	P	22	16.00	-1.5
			eS	24	09.00	
KUS	9.07	25	P	22	17.00	-2.2
			eS	23	52.00	
ASA	9.25	14	P	22	20.00	-1.7
KUSJ	9.28	26	P	22	17.00	-5.1X
RMJ	9.29	11	P	22	24.00	1.7
ASAJ	9.64	15	P	22	24.00	-3.1
NEM	9.81	28	P	22	24.00	-5.4X
			eS	24	07.00	
ABJ	9.96	21	P	22	24.00	-7.5X
VLA	10.07	327	Pd	22	34.60	1.6
NZJ	10.52	235	P+	22	39.10	-0.1
			eS	24	57.00	
WAK	10.74	9	P	22	44.00	1.9
			eS	24	45.00	
MVI	11.33	220	P	22	51.10	0.8
KUR	12.30	30	Pc	22	56.50	-6.7X
			iS	25	17.00	
YSS	12.45	11	Pc	22	58.40	-6.9X
NGO	12.71	233	P	23	07.50	-1.3
NAH	13.16	232	P	23	13.50	-1.2
KMJ	13.66	235	P	23	20.00	-1.3
CN2	13.94	314	P	23	26.20	1.2
			S	26	08.00	
SSE	15.63	261	iPc	23	47.50	0.5
	N 14s		167.00um			
	E 14s		65.80um			
			isP	26	54.00	
			iS	28	06.00	
ISI	16.77	235	P	24	05.00	3.4X
			eS	27	24.00	

29d 07h

NJ2	17.26	267	P	24	08.30	0.5				eS	33	00.00						eS	36	38.00		
			iS	27	29.30		MOM	37.46	167	P	27	19.50	-0.6	KHO	53.67	294	P	29	28.20	-0.7
TIA	18.08	281	P	24	19.50	1.5	KVG	38.74	161	eP	27	29.00	-1.9				S	37	02.20		
ANP	18.11	243	P	24	21.00	2.6	TOC	38.81	271	P	27	29.00	-2.5	GAR	54.09	296	eP	29	30.00	-1.8
			S	27	44.00					S	33	26.00		TAS	54.12	299	ePd	29	31.00	-0.9
TATO	18.25	242	eP	24	20.00	-0.1	CHG	39.07	257	iPc	27	33.00	-0.7				eS	37	02.50		
			epP	24	28.00			1.5s	118.00nm			5.4mb		KHE	54.45	349	ePc	29	33.00	-0.9
HWA	18.78	240	P	24	28.30	1.8				eS	33	32.00					iS	37	09.00		
			eS	28	14.60		PCT	39.48	249	ePc	27	37.00	-0.1	WB2	54.66	186	P	29	33.80	-2.2
BJI	19.04	293	Pd-	24	28.40	-1.3		1.0s	49.70nm			5.2mb					e	34	38.00		
	2.5s	1290.00nm			5.7mb		AAI	39.70	197	eP	27	39.10	0.2				eS	37	19.00		
Z	19s	95.90um					KKI	39.70	170	eP	27	40.00	1.0				e	00	06.50		
N	18s	71.60um					BDT	39.88	254	iPd	27	41.30	0.9	WRA	54.67	186	Pc	29	33.80	-2.2
			eS	28	02.00			0.8s	67.50nm			5.4mb			0.8s	117.00nm			6.0mb	
TCU	19.33	242	P	24	31.60	-1.6	WMQ	40.33	299	P	27	45.10	1.1	KUL	54.87	295	eP	29	36.00	-1.5
			S	32	37.20					S	33	54.70					isP	29	42.90		
TTN	19.88	238	P	24	42.60	3.4X	NKI	40.54	47	ePc	27	45.10	-0.3	CTA	55.01	172	P	29	37.60	-1.0
SKR	20.01	33	Pc	24	38.00	-2.4	RAB	40.66	160	eP	27	46.00	-0.8				iS	37	19.00		
QZH	20.42	247	P	24	43.10	-1.7				eS	33	52.00		ISQ	55.23	180	eP	29	39.00	-1.2
			pP	24	54.10	46kmX	LSA	40.70	277	P	27	46.30	-1.4	DSH	55.37	296	eP	29	41.00	-0.2
			sP	25	00.10					S	33	58.30					iS	37	25.00		
			iS	28	35.10		ILT	40.76	23	Pc	27	45.40	-1.6	SVE	55.67	319	Pc	29	42.60	-0.4
HEN	20.66	237	eP	24	49.00	1.7				eS	33	45.00					iS	37	27.00		
			S	28	49.00		ELT	41.24	313	Pd	27	50.30	-0.9	AJM	55.67	280	P	29	53.00	9.6X
WHN	21.38	265	P	24	54.50	-0.2	SHL	41.66	270	P	27	54.00	-1.2				S	37	45.00		
			pP	25	03.50	33kmX				S	34	14.00		KIP	56.10	86	eP	29	48.00	1.5
			iS	28	54.50		LML	41.98	168	P	27	57.50	0.0				eS	37	40.00		
GUMO	21.74	165	e(P)	24	58.00	-0.4	AGT	42.89	269	P	28	00.00	-5.1X	SAM	56.31	298	eP	29	47.00	-0.9
			e(S)	28	47.00		NVS	43.11	316	Pd	28	05.00	-1.5	HYB	56.40	269	eP	29	47.00	-1.9
PJG	21.74	165	e(P)	24	57.50	-0.9				iS	34	19.00					e	29	53.00		
GUA	21.80	165	e(P)	24	58.30	-0.7	MKS	43.98	209	iPc	28	14.70	0.8				ePcP	30	49.50		
	0.8s	549.00nm			6.0mb		LMG	44.30	167	eP	28	17.00	0.4				ePP	31	48.00		
			eS	28	56.00		NRI	44.42	337	Pc	28	14.50	-2.4				eS	37	40.00		
PET	22.80	31	Pc	25	08.00	-0.5	PMG	44.62	169	ePc	28	18.00	-1.1				eSS	41	20.00		
			eS	29	15.00		Z	20s	12.40um			5.8Msz		PNL	56.45	37	ePc	29	48.60	0.0
BTO	23.78	293	P	25	17.90	-0.5	SEM	44.94	309	eP	28	19.00	-2.3	KAAO	56.59	291	iPc	29	49.00	-1.2
			S	29	32.90					S	34	56.20					i	29	53.70		
BAG	24.83	227	Pc	25	26.40	-2.3	CAL	45.87	269	P	28	22.00	-7.0X	KBL	56.59	291	iPc	29	49.60	-0.6
			iS	29	52.00					S	35	01.00		ARU	56.86	319	Pc	29	50.60	-0.9
XAN	25.00	277	P	25	29.90	-0.3	IPM	46.43	238	ePc	28	31.50	-2.1				esP	29	55.70		
HKC	25.25	247	P	25	32.00	-0.5		0.9s	183.00nm			6.0mb					eS	37	42.00		
			S	29	52.00		KGM	46.73	234	eP	28	36.00	0.2	MDR	57.38	263	P	29	59.10	3.4X
GZH	25.44	250	P	25	32.60	-1.7		1.1s	200.00nm			6.0mb					P	32	10.60		
			pP	25	42.60	37kmX	PRZ	47.25	298	eP	28	41.00	1.1				PPP	33	36.60		
			S	30	03.60					eS	35	30.00					S	37	56.60		
LGP	25.75	217	ePd	25	43.40	6.1X	BOK	47.40	272	P	28	37.00	-4.2X	ASP	58.41	186	eP	30	01.00	-1.7
MAN	25.92	224	ePc	25	39.00	0.2				S	35	27.00		PVC	59.12	147	Pc	30	07.50	-0.1
	1.0s	776.00nm			6.3mb		TLG	47.82	300	Pc	28	45.30	1.0	SIT	59.20	39	ePc	30	08.70	0.9
OCP	25.94	224	P	25	24.00	-15.0X				iS	35	39.60		HVO	59.29	87	iP	30	18.00	8.8X
MGD	26.38	13	Pc	25	41.00	-1.7	MTN	48.03	191	eP	28	45.00	-1.0				eS	38	24.00		
			isP	25	44.00		PBA	48.05	253	P	28	50.00	3.7X	GBA	59.30	265	Pd	30	07.70	-1.5
			ipP	25	45.50	16kmX				S	35	50.00			1.0s	67.90nm			5.7mb	
			iS	30	02.00		VAR	49.06	275	Pd	28	54.30	0.4	POO	59.71	272	Pd	30	11.50	-0.5
PLP	26.91	212	ePd	25	45.50	-2.4				PP	30	51.30					PcP	30	55.50		
PGP	26.92	222	eP	25	47.20	-0.9				S	35	56.00					PPP	33	56.50		
YAK	27.88	350	Pc	25	54.30	-2.0				PS	36	13.30					PcS	34	51.00		
			iS	30	33.80		PSI	49.24	239	iPd	28	54.50	-0.9				S	38	22.00		
BOD	28.50	332	eP	26	01.00	-1.0		1.0s	135.00nm			5.9mb					PS	38	37.50		
LZH	28.79	283	P	26	03.90	-1.1				e(S)	34	12.00					ScS	39	52.00		
			sP	26	20.90		IMA	49.47	30	ePc	28	56.70	-0.1				SS	42	21.50		
			S	30	56.40		KSH	49.75	295	P	28	58.40	-0.9	QUE	59.95	288	eP	30	12.00	-1.6
GYA	29.17	262	P	26	07.10	-1.4				S	36	04.30					eS	38	34.00		
			pP	26	16.10	31kmX	FRU	49.90	300	ePd	29	00.00	-0.3	BOM	60.38	273	P	30	20.50	4.0X
			sP	26	21.10					isP	29	06.00					S	38	30.00		
			S	30	01.10					eS	36	08.60					SSS	45	00.00		
SEY	29.28	12	Pc	26	08.90	0.0	KDC	49.96	41	eP	28	59.90	-0.5	GOA	61.29	269	P	30	25.30	2.6
			eS	30	58.40		PPI	50.51	234	ePd	29	06.50	1.4				S	38	44.90		
CGP	29.46	210	eP	26	09.50	-1.5	LEM	51.07	222	iPd	29	09.00	-0.6				PS	39	03.70		
			eS	29	22.00			1.0s	120.00nm			5.8mb					PPS	40	24.00		
CDU	29.85	272	P	26	13.50	-1.0	DDI	51.09	283	P	29	07.90	-1.6	NAU	61.36	205	Pd	30	21.90	-1.0
			S	31	13.50					pP	29	14.90	23kmX	WBN	61.81	193	Pd	30	25.70	-0.3
DAV	30.35	208	eP	26	16.00	-2.9				S	36	24.90		NOU	62.41	151	Pc	30	29.90	-0.1
ZAK	30.36	312	eP	26	16.00	-2.7	KNA	51.27	193	eP	29	10.00	-0.8	ALE	62.43	3	iPc	30	28.50	-1.0
			eS	31	08.50		PMR	51.43	35	ePc	29	10.80	-0.8		1.1s	182.00nm			6.1mb	
IRK	30.37	316	eP	26	14.00	-4.8X		0.9s	104.00nm			5.8mb		TRD	62.52	261	Pc	30	31.00	0.0
			eS	31	21.00		Z	20s	16.00um			6.0Msz					S	39	01.00		
SMY	30.47	43	eP	26	20.80	1.2	COL	51.89	31	iPc	29	15.30	0.2				PS	39	24.00		
KMI	32.93	263	P	26	40.00	-1.8	Z	18s	25.10um			6.3Msz		KBS	62.54	350	iP	30	29.50	-0.8
			pP	26	48.90	31kmX				eS	36	40.00		MAIO	63.06	297	P	30	34.80	0.4
			sP	26	55.50		FBA	51.89	31	ePc	29	14.90	-0.2				iS	39	12.00		
			S	32	02.00		ANR	52.06	298	eP	29	16.00	-0.7	BRS	63.18	167	Pd	30	35.00	-0.1
ADK	35.65	48	ePc	27	04.00	-0.6				eS	36	41.00		ASH	63.21	299	eP	30	35.00	-0.2
MNI	35.83	205	e(P)	27	15.00	8.5X	VIS	52.35	266	P	29	18.00	-1.1	KAT	64.17	301	eP	30	43.00	1.5
UER	36.29	312	Pc	27	08.30	-1.6				S	36	46.00		VUN	64.40	138	ePd	30	44.70	1.5
JAY	37.17	178	ePd	27	16.00	-1.7	NDI	52.39	282	eP	29	17.50	-1.8		0.9s	262.00nm			6.4mb	
TIK	37.28	355	Pc	27	16.50	-1.6	Z	20s	6.74um			5.7Msz		SVA	64.49	138	eP	30	45.50	1.8
			epP	27	17.00	2kmX	E	20s	16.00um					KHI	64.61	295	eP	30	45.00	0.3

29d 07h

KEV	64.89	339	iP	30	45.20	-0.5	MHC	76.13	54	iP	31	55.30	0.8	PVL	81.86	318	iPd	32	25.00	-0.3
	0.8s	49.00nm			5.7mb		SAV	76.52	174	eP	31	58.00	1.8	BRG	82.04	329	iP	32	33.40	7.3X
			i	30	58.30		SAO	76.58	55	iP	31	57.10	0.2		2.4s	730.00nm			6.3mb	
			iPP	33	11.20		JAS	76.59	53	iPc	31	57.80	0.8		Z 16s	46.00um			6.9MszX	
			eS	39	24.00					e	32	05.00			N 20s	45.00um				
SOD	66.32	337	P	30	53.90	-1.1				PP	34	57.00			E 20s	79.00um				
			iPP	33	19.80		BUT	76.77	43	eP	31	58.40	0.4				eS	42	48.00	
YKA	66.59	29	P	30	57.40	0.7				e	32	04.40		CLL	82.12	329	iPc	32	26.20	-0.2
AFI	67.12	127	P	31	02.00	1.2	CMT	76.82	42	ePc	31	58.40	0.2				i	32	33.00	
			S	40	03.00					e	32	04.30					PP	35	37.00	
TRO	67.23	341	iP	30	59.80	-0.9	KON	77.11	336	iP	31	59.30	-0.1				e	35	54.00	
KJF	67.74	334	iP	31	03.00	-1.0	BMN	77.26	50	ePc	32	02.30	1.5				e	37	16.00	
	0.9s	111.00nm			6.0mb			1.0s	25.00nm			5.2mb					e	38	14.00	
			i	31	10.00		KIS	77.39	319	Pc	32	04.00	2.9				(SKS)	42	44.00	
			iPP	33	38.80					iS	41	58.00					e	43	27.00	
			eS	39	58.00		PRI	77.44	55	iPc	32	03.00	1.1				P'P'	59	03.00	
DAG	67.82	355	iPc	31	02.90	-1.4	FRI	77.61	54	iPc	32	03.20	0.6	BUD	82.15	324	eP	32	27.00	0.3
	0.9s	84.00nm			5.9mb		TAU	77.71	174	eP	32	05.00	2.3	MNG	82.15	153	iP	32	26.30	-0.3
			iS	40	05.00					eS	41	56.00		TIM	82.25	321	eP	32	29.00	1.8
KIR	67.95	339	Pc	31	04.00	-1.3	MNV	77.81	52	iPc	32	04.50	0.6	SRO	82.26	324	iP	32	31.30	4.1X
			i	31	10.10		BER	77.89	339	iP	32	03.80	0.2		N 18s	64.80um				
			iS	40	02.00		WAR	77.94	326	eP	32	10.00	5.9X		E 18s	66.10um				
			i	59	26.00					e	35	05.00					iPP	35	41.00	
MOS	67.98	323	Pd	31	02.00	-3.6X				e	42	07.00					iS	42	38.00	
			eS	40	06.00		LVV	78.12	323	Pd	32	06.10	1.0	DIM	82.35	317	eP	32	30.00	2.2
			S	40	12.00					iS	42	04.00		PRA	82.42	328	iP	32	28.00	0.0
MAK	68.46	308	eP	31	12.00	3.2X	AKU	78.28	351	iP	32	07.80	2.1				pP	32	35.00	22kmX
			iS	40	16.00			2.0s	900.00nm			6.5mb					PP	35	42.00	
OBN	68.77	323	Pc	31	10.80	0.3		Z 20s	4.50um			5.8Msz					(SKS)	42	48.00	
			iS	40	14.00					i	32	14.40					PKKS	53	54.00	
SHE	68.79	305	eP	31	11.00	0.1	EUR	78.59	50	iP	32	09.20	0.9	PRU	82.43	328	iPc	32	28.20	0.1
PUL	69.20	329	Pd	31	13.00	-0.1		1.0s	36.50nm			5.4mb					pP	32	35.00	22kmX
			isP	31	18.00		CFR	78.91	318	eP	32	10.00	0.5				PP	35	42.00	
			iS	40	16.00		COP	79.10	333	iPc+	32	10.00	-0.3				(SKS)	42	44.00	
YOU	69.27	172	P	31	11.30	-2.5		0.9s	161.00nm			6.0mb					PS	43	26.00	
GRO	69.43	309	eP	31	14.00	-0.8				iPP	35	13.00					PPS	44	04.00	
			iS	40	25.00					iS	42	08.00					SS	48	00.00	
CAN	70.37	172	Pc	31	21.30	0.8	VRI	79.26	319	eP	32	12.00	0.5				SSS	53	46.00	
NWAO	70.50	200	eP	31	21.00	-0.3	LD3	79.74	40	ePc	32	13.10	-1.0	SNZO	82.47	154	eP	32	32.30	4.1X
UME	70.59	336	Pc	31	20.30	-1.2		0.9s	26.10nm			5.3mb		WEL	82.47	154	P	32	29.00	0.8
			i	31	28.10		UZH	79.75	323	Pc	32	16.00	2.0	SSR	82.57	321	eP	32	29.00	0.0
			iS	40	43.30					eS	42	15.00		GCA	82.85	50	e(P)	32	28.50	-2.3
PYA	70.76	311	eP	31	24.00	1.1	BMR	79.79	322	eP	32	15.00	0.7	VIE	82.87	326	ePc	32	32.00	1.6
			iS	40	43.50		KRP	79.83	152	P	32	16.00	1.6				e	32	36.00	
GRS	70 88	305	Pc	31	22.80	-1.1	MLR	79.93	319	eP	32	16.00	0.8				PP	35	44.00	
LON	71.03	46	iPc	31	24.30	-0.3	KRA	79.93	325	ePc	32	14.80	-0.2				PS	43	38.00	
	0.9s	28.60nm			5.4mb			0.9s	77.10nm			5.7mb					e	25	00.00	
NUR	71.07	332	P	31	23.50	-0.9		Z 15s	66.10um			7.1MszX		VKA	82.88	326	iPc	32	31.50	1.0
WAM	71.22	172	P	31	25.70	0.2		N 20s	59.20um								e	42	31.00	
SHI	71.31	293	ePd	31	26.00	-0.7		E 20s	79.70um								PS	43	38.00	
			e(S)	40	44.00					e	32	19.60					e	15	00.00	
TAB	71.59	304	eP	31	32.00	3.8X				e	32	21.90		GLA	83.15	54	ePc	32	33.80	1.6
BKR	71.62	308	Pd	31	29.00	0.6				e	32	26.00		SOF	83.18	318	iPc	32	37.00	4.8X
ERE	71.76	307	Pc	31	33.00	3.9X				e	32	35.00					PP	37	00.00	
LEN	71.89	307	eP	31	30.00	0.0				e	33	22.00					PPP	39	38.00	
TOO	72.26	175	Pd	31	32.00	0.2				e	35	22.00					eS	45	38.00	
FHC	72.74	52	iP	31	36.30	1.4				e	35	56.00		SOP	83.19	325	iPc	32	32.30	0.2
NEW	72.93	43	iPc	31	36.00	0.2				eS	42	14.00			1.0s	80.00nm			5.8mb	
	1.0s	55.00nm			5.5mb					e	43	38.00		MOX	83.20	329	eP	32	33.00	0.9
	Z 18s	13.00um			6.3Msz		REY	80.25	352	eP	32	18.80	2.4		3.0s	1830.00nm			6.7mb	
	N 18s	6.00um					PAS	80.26	55	iPc	32	17.00	-0.1		Z 14s	45.70um			7.0MszX	
	E 18s	8.00um						Z 20s	14.00um			6.3Msz			N 18s	46.80um				
SOC	73.06	311	Pc	31	40.00	3.4X		N 20s	15.00um						E 18s	52.30um				
WDC	73.80	52	iPc	31	41.60	0.7		E 20s	21.00um								ePP	35	48.00	
UPP	74.16	333	iPc	31	41.60	-1.0				ePcP	32	48.00					eS	42	50.00	
	1.4s	500.00nm			6.3mb					iS	42	24.00		MSZ	83.29	160	iP	32	33.20	0.8
			iS	41	08.00					eScS	43	24.00		HOF	83.34	329	iPc	32	33.00	0.2
KTG	74.19	354	iPc	31	42.70	0.1	CJR	80.37	321	eP	32	20.00	2.5				e	35	44.00	
	0.9s	54.00nm			5.6mb					e	32	54.00					eS	42	52.00	
			iS	41	18.00		SPC	80.38	324	eP	32	17.20	-0.4	RHP	83.41	158	eP	32	35.00	1.9
MIN	74.52	52	iPc	31	45.20	-0.2				i	32	22.80		WIT	83.47	333	eP	32	34.50	1.1
SES	74.97	39	eP	31	47.00	-0.6				e	32	35.70					e	32	41.00	
ORV	75.02	52	iPc	31	48.20	0.2				iPP	35	28.50		KHC	83.49	328	iP	32	34.00	0.3
BHD	75.42	300	ePc	31	55.00	4.6X				e(S)	42	29.00					i	32	41.00	
			e	41	37.50		BDW	80.45	44	ePc	32	18.40	0.2				i	32	43.00	
BKS	75.44	54	ePc	31	51.10	0.6		1.1s	25.60nm			5.2mb					i	35	54.00	
	Z 22s	1.20um			5.2MszX		CMP	80.56	319	eP	32	24.00	5.5X				S	43	00.00	
	N 22s	3.50um					JOS	80.71	324	ePc	32	19.00	-0.2				e	54	30.00	
	E 22s	1.70um					KSP	81.04	327	iPc	32	21.20	0.3	KMR	84.04	327	eP	32	35.00	-1.4
			eS	41	34.00					ePP	35	29.00					pP	32	43.00	25kmX
SIM	75.67	315	ePd	31	51.00	-0.6				e(S)	42	25.00					e	35	53.00	
			eS	41	39.00		BRN	81.21	330	ePc	32	26.50	4.8X				sS	43	10.00	
GDH	75.80	5	iPc	31	51.20	-0.7				i	35	31.50					SP	43	45.00	
	1.0s	46.00nm			5.5mb		DEV	81.28	321	eP	32	29.00	6.8X				e	14	00.00	
			iS	41	32.00		PSZ	81.42	324	P	32	23.30	0.3	WTS	84.06	333	eP	32	36.50	0.1
NAO	75.82	337	P	31	50.00	-2.2	COB	81.57	155	P	32	24.00	0.4				i	32	43.30	
	0.9s	23.80nm			5.2mb		GZR	81.67	320	eP	32	25.00	0.6				e	33	05.00	

29d 07h

			e	35	43.00		DDK	87.22	340	eP	32	51.80	-0.2				iS	45	12.00				
			eS	43	08.00		BAF	87.29	330	P	32	52.60	0.0				iSS	51	55.00				
GRF	84.09	329	iPc	32	37.10	0.5	ALQ	87.35	49	ePc	32	54.00	0.7	PTO	98.84	336	P	33	43.00	-2.9			
	1.1s	277.00nm			6.4mb			1.0s	51.80nm			5.7mb		TKL	99.19	34	eP	33	48.00	0.3			
			e	35	54.50			Z 18s	9.11um			6.2Msz		MAL	101.19	331	ePdiff	34	01.00	4.5X			
			i	42	58.00		DLE	87.36	340	eP	32	52.40	-0.3				iPP	38	08.00				
GRFO	84.09	329	iPc	32	37.30	0.7		1.2s	140.00nm			6.1mb					iSKS	44	36.00				
			i	32	44.50		BSF	87.38	330	eP	32	52.80	-0.3				iS	45	28.00				
MOA	84.13	326	iPc	32	37.40	0.5		1.1s	30.50nm			5.5mb		LIS	101.20	335	Pdiff	34	00.00	3.6X			
			e	32	43.00		HAU	87.42	331	eP	32	52.90	-0.3				ePP	38	08.00				
			PP	35	56.00			0.8s	18.10nm			5.4mb					S	45	20.00				
EIL	84.17	302	Pc	32	36.50	-0.9	DCN	87.51	341	eP	32	52.90	-0.6				LR	10	00.00				
VAY	84.52	317	iP	32	39.20	0.3		1.3s	130.00nm			6.0mb		SFS	102.13	332	iPdiff	34	05.00	4.4X			
DBN	84.59	334	iPc	32	44.00	5.0X	ECP	88.30	340	eP	32	56.80	-0.4				iPP	38	14.00				
Z	22s	13.70um			6.3Msz			1.2s	155.00nm			6.2mb					eS	45	42.00				
N	20s	46.30um					DIX	88.51	329	P	32	57.50	-1.3				e	57	30.00				
E	20s	60.50um					FIR	88.57	325	Pc	33	04.00	5.3X	BNG	112.05	292	ePKPd	38	44.20	1.9			
			e	32	59.00		ARO	88.70	283	iPc	33	05.50	5.6X		1.0s	7.90nm							
			e	33	13.00		MNS	88.94	323	iP	33	00.00	-0.5	SBA	113.64	174	iPKP	38	45.20	1.7			
			e	35	41.00					i	33	05.50		MTD	113.74	266	ePKP	38	44.00	-1.5			
			i	35	56.00					e	36	39.00		CIR	115.86	262	ePKP	38	49.00	-0.4			
			i	36	04.00		LOR	89.01	331	iPd	33	00.80	0.0	MAW	116.80	265	ePKP	38	51.00	1.3			
			iS	43	07.00			1.1s	37.30nm			5.6mb		BUL	117.86	264	iPKPc	38	53.50	0.1			
			e	43	36.00		LBF	89.20	331	iPd	33	01.50	-0.2		0.8s	7.09nm							
EKA	84.61	340	Pd	32	39.60	0.5		0.6s	17.00nm			5.5mb		PRE	120.83	259	iPKPc	39	00.50	1.6			
	1.0s	20.90nm			5.3mb		SSF	89.32	332	iPd	33	02.40	0.1		1.0s	39.00nm							
SKO	84.70	319	iP	32	45.00	5.2X		1.0s	26.00nm			5.5mb			Z 20s	12.80um			6.6Msz				
			iS	43	10.00		RMP	89.36	323	eP	33	01.50	-1.1	KSR	121.92	259	iPKPc	39	00.30	-0.7			
BNS	84.74	332	iPc	32	40.00	0.2				ePP	36	36.00			1.0s	16.00nm							
ZAG	84.80	324	iP	32	45.80	5.6X				iS	44	00.00		SPA	124.64	180	iPKPc	39	05.60	0.7			
			iPcP	33	08.10		FLN	89.38	335	eP	33	04.10	1.6		0.9s	29.40nm							
			eSKS	43	07.40			0.9s	29.40nm			5.6mb			Z 20s	6.60um			6.3Msz				
GOL	84.85	44	ePc	32	42.30	1.3	SSC	89.40	334	iPd	33	02.60	0.0	KDS	125.65	325	iPKP	39	07.60	-0.7			
	1.1s	22.50nm			5.3mb			0.8s	29.40nm			5.6mb		KIC	126.80	313	iPKP	39	10.50	-0.1			
PMO	84.93	112	eP	32	48.00	6.8X	SMF	89.53	331	eP	33	03.10	-0.2	BCR	128.33	43	ePKP	39	13.00	-0.5			
	1.3s	160.00nm			6.1mb			1.1s	35.70nm			5.6mb		WIN	128.45	268	PKP	38	47.20	-26.5X			
BLY	84.98	323	iP	32	41.20	0.0	VAL	89.57	342	eP	33	00.00	-3.3X	CAR	128.54	34	ePKP	39	14.80	0.8			
FUR	85.22	328	iPc	32	42.90	0.5				(SKS)	43	32.00		FUO	129.27	44	ePKP	39	18.00	2.3			
			e	36	07.00					ScS	43	54.00		BOG	129.77	45	ePKP	39	20.50	3.9X			
			eS	43	09.00					LQ	56	44.00		BOCO	129.81	45	ePKP	39	19.00	2.2			
HEE	85.26	332	iPc	32	42.60	0.2				LR	02	04.00		PSO	130.44	52	ePKP	39	19.00	1.0			
			e	32	49.50		AVF	89.60	331	iPd	33	03.70	0.1	TRN	130.72	27	ePKP	39	18.70	0.8			
			e	00	44.00			0.7s	27.30nm			5.6mb			1.0s	40.00nm							
PPN	85.33	115	eP	32	51.00	7.8X	GRR	89.83	335	iPd	33	05.00	0.4	OAQ	130.73	54	PKP	39	23.00	4.5X			
	1.3s	120.00nm			6.0mb			1.1s	60.50nm			5.8mb		NCE	131.06	54	ePKP	39	23.00	3.7X			
LJU	85.33	325	ePc	32	43.00	0.1	LPF	90.20	335	iPd	33	06.90	0.6	SNA	138.88	199	PKP	39	25.00	-6.7X			
			ePP	36	08.50			1.2s	68.00nm			5.8mb		NNA	140.14	64	ePKP	39	30.50	-5.2X			
			eS	43	08.50		SSB	90.35	330	eP	33	06.50	-0.7		Z 20s	9.75um			6.6Msz				
RUV	85.43	112	eP	32	51.00	7.3X	SGR	90.43	334	(P)	33	14.00	6.6X				e	39	34.50				
	1.3s	120.00nm			6.0mb		TCF	90.46	332	iPd	33	08.00	0.4	HUA	141.29	63	ePKP	39	32.00	-6.3X			
MEM	85.47	332	Pc	32	45.00	1.5		1.4s	55.30nm			5.6mb		AIA	146.43	162	e(PKP)	39	51.00	6.1X			
			PP	36	05.60		CVF	90.62	326	eP	33	07.80	-0.6	ARE	146.98	64	ePKP	39	50.00	2.3			
			PS	44	13.00			0.9s	18.00nm			5.4mb					eSS	02	12.00				
CEY	85.61	325	ePc	32	43.00	-1.3	LSF	90.76	332	eP	33	09.40	0.4	ZOBO	149.30	60	PKP	39	52.60	0.9			
			i	32	48.00			1.7s	108.00nm			5.9mb		LPB	149.49	60	PKPd	39	53.80	2.0			
			ePP	36	08.50		SPF	90.81	328	eP	33	09.00	-0.3		2.1s	1720.00nm							
			eS	43	08.50			0.9s	34.30nm			5.7mb		ANT	151.93	75	PKP	40	02.00	7.3X			
OHR	85.64	318	iP	32	44.80	0.2	LRG	91.05	328	iPd	33	10.20	-0.1				i	40	22.00				
			i	32	50.60			0.9s	44.30nm			5.8mb					PP	43	59.00				
STU	85.65	329	ePc+	32	44.50	0.1	LMR	91.08	328	iPd	33	10.30	-0.2				SS	03	22.00				
	1.0s	160.00nm			6.2mb			1.1s	48.60nm			5.8mb					SSS	09	14.00				
TRI	85.94	325	i(P)c	32	44.30	-1.6	MFF	91.09	333	iPd	33	11.10	0.6	CPP	153.63	82	PKP	40	02.50	5.4X			
			i	32	49.00			1.1s	50.00nm			5.8mb		TLL	154.27	88	ePKP	40	05.00	6.8X			
			i(PP)	36	10.00		RJF	91.55	332	iPd	33	13.20	0.6	PEL	155.15	95	PKP	40	04.00	5.0X			
			e(SKS)	43	04.00			1.3s	50.20nm			5.7mb		SAN	155.23	95	ePKP	40	07.00	8.0X			
			i(S)	43	14.00		CAF	91.65	331	iPd	33	14.30	1.2	SLA	156.32	72	PKPc	40	09.20	8.2X			
UCC	85.94	333	Pd	32	46.00	0.2	LFF	92.16	332	iPd	33	16.50	1.1	MDZ	156.60	93	e(PKP)	40	09.10	8.1X			
			PcP	32	50.10			0.9s	42.50nm			5.9mb		CFA	156.79	90	PKP	40	03.50	2.3			
			PP	36	08.20		LPO	92.20	332	iPd	33	16.60	1.0	CYA	157.76	80	PKPc	40	07.80	5.3X			
ATH	86.11	314	ePc	32	50.00	3.1X		1.1s	25.70nm			5.6mb		BAO	159.81	21	e(PKP)	40	07.00	1.8			
			ePP	36	06.00		CHI	92.37	33	P	33	22.00	5.6X				e	41	46.00				
			eS	43	18.00		TUL	92.90	42	ePc	33	19.70	0.7	BAA	165.39	94	PKP	40	17.10	7.2X			
BUH	86.12	330	ePc	32	46.50	-0.4		1.2s	78.70nm			6.0mb					PP	45	02.70				
WLF	86.17	332	ePc	32	53.00	6.0X		Z 20s	7.95um			6.2Msz		LPA	165.87	95	ePKP	40	38.00	27.7X			
			S	43	18.00		RLO	93.13	41	eP	33	20.50	0.5		Z 20s	7.80um							
			ScS	43	32.00		MLS	93.68	331	ePc	33	22.60	0.1	RDJ	167.92	11	PKP	40	18.00	5.8X			
TUC	86.29	53	ePc	32	48.90	0.8	EPF	93.91	331	eP	33	23.90	0.3				e	41	24.80				
DOU	86.43	333	Pd	32	48.30	0.0		0.8s	21.80nm			5.6mb					eSKP	43	17.20				
			PP	36	14.00		FVM	94.14	37	ePc	33	24.20	-0.5				iPP	45	12.00				
CDF	86.72	330	iPd	32	50.20	0.3	JCT	94.48	48	iP	33	27.00	0.6				eSKS	48	28.40				
	1.0s	42.10nm			5.6mb			1.0s	12.50nm			5.3mb			S.D. = 1.2		on 436 of 506 obs.						
DMU	86.92	341	eP	32	50.60	0.0		Z 20s	10.60um			6.3Msz											
	1.1s	100.00nm			6.0mb					i	37	12.50			JUL 29, 1980 14h 58m 41.09± 0.06s								
ECH	86.92	330	P	32	50.20	-0.6				e	44	12.00			29.656 N ± 1.7km 81.108 E ± 1.2km								
			iS	43	26.00		MIM	96.28	20	eP	33	35.80	1.4		DEPTH = 18.8km (13 depth phases)								
			e	06	00.00		TRM	96.84	21	eP	33	38.60	1.7		6.1mb (65 obs.) 6.6Msz (22 obs.)								
ZUL	86.99	329	P	32	50.00	-1.1	TOL	98.32	332	eP	33	43.00	-0.7		NEPAL								(310)

29d 14h

One hundred fifty to 200 people killed, many injured and extensive damage in western Nepal. At least 13 killed, 40 injured and damage in the Pithoragarh area, India. Felt strongly at Kathmandu, Nepal and in the Delhi area, India.

NDI	3.54	255	Pn-	59	36.50	0.2
			iSn	00	18.00	
VAR	4.66	158	Pn	59	54.60	2.4
			Sn	00	55.60	
BOK	7.16	143	Pn	00	30.80	3.4X
LSA	8.74	87	Pc	00	51.10	1.2
			S	02	29.50	
SHL	10.39	111	Pc	01	09.00	-3.3X
			S	03	02.00	
KSH	10.65	338	Pc	01	13.80	-2.0
KHO	11.16	317	eP	01	18.00	-4.9X
			iS	03	29.60	
KAAO	11.33	299	iPc	01	22.00	-3.2X
KBL	11.33	299	iPc	01	22.20	-3.0X
VIS	12.05	170	P	01	31.00	-3.8X
			S	03	36.00	
QUE	12.30	276	eP	01	34.80	-3.5X
			eS	03	50.00	
HYB	12.41	191	ePd-	01	34.00	-5.6X
			e	02	00.00	
			eS	03	40.40	
			e	04	56.00	
NRN	12.46	342	Pc	01	38.50	-2.1
			eS	03	55.00	
GAR	12.89	319	eP	01	40.00	-6.1X
			eS	04	11.60	
POO	12.90	212	Pd	01	49.20	3.0X
			PP	01	56.00	
			S	04	14.00	
			SS	04	27.00	
PRZ	12.99	351	Pc	01	45.80	-1.6
			eS	04	09.40	
BOM	13.11	217	Pd	01	43.00	-5.9X
			S	04	03.00	
ANR	13.17	330	ePc	01	44.00	-5.7X
			eS	04	09.00	
DSH	13.53	314	Pc	01	48.50	-6.0X
			iS	04	15.50	
TLG	13.91	349	P	01	58.00	-1.5
FRU	14.15	340	Pc	02	00.50	-2.1
			iS	04	37.00	
WMQ	15.08	19	Pc	02	14.10	-0.7
TAS	15.09	324	ePc	02	06.00	-8.8X
			iS	04	57.00	
SAM	15.30	315	ePc	02	12.00	-5.7X
			iS	04	59.80	
GOA	15.62	207	Pd	02	16.00	-5.9X
GBA	16.33	193	Pc	02	21.20	-9.8X
	1.2s	389.00nm			5.4mb	
MDR	16.60	183	P	02	42.00	7.6X
			S	05	31.50	
TGI	19.01	286	iPc	03	04.10	-0.4
MAID	19.29	296	Pc+	03	06.20	-1.5
			eS	06	35.60	
			e	08	00.00	
CHG	19.49	120	iPc	03	08.10	-2.0
	1.0s	343.00nm			5.6mb	
			eS	06	40.00	
CHTO	19.49	120	iPc	03	07.50	-2.6
KOD	19.62	191	eP	03	08.00	-3.9X
			PPP	03	42.00	
			eS	07	04.00	
KMI	19.72	98	Pc	03	12.20	-0.7
			iS	06	52.00	
CDU	19.83	81	Pc	03	13.40	-0.3
LZH	20.12	66	Pc	03	16.60	-0.3
			S	07	00.60	
BDT	20.51	123	iPc	03	20.30	-0.5
ASH	20.61	300	Pc	03	20.50	-1.2
SEM	20.74	358	Pc	03	22.00	-1.0
PBA	20.91	146	P	03	36.00	11.0X
			S	07	32.00	
KAT	22.53	302	Pc	03	41.50	0.4
			iS	07	47.00	
GYA	22.76	92	Pc	03	44.20	0.5
			S	07	51.70	
SHD	22.91	294	eP	03	44.00	-1.1
ELT	23.88	8	Pc	03	55.80	1.8
UER	23.93	20	Pc	03	56.00	1.4
PCT	23.93	124	eP	03	56.90	2.0
XAN	23.99	72	Pc	03	55.50	0.0
			sP	04	07.90	
SHI	24.82	277	ePc	04	05.00	1.4
NVS	25.28	3	Pc	04	07.00	-0.5
			iS	08	29.00	
TEH	25.68	291	eP	04	16.00	4.3X
BTO	25.93	57	Pc	04	15.10	1.1
			pP	04	22.10	25km
MOY	26.51	28	Pc	04	21.00	2.0
ZAK	26.59	33	Pc	04	21.50	1.7
BSI	27.52	148	eP	04	26.50	-2.1
BAK	27.58	301	Pc	04	32.00	3.1X
			S	09	14.00	
IRK	28.36	31	Pc	04	36.90	1.0
			eS	09	29.50	
WHN	28.72	80	Pc	04	39.50	0.2
			pP	04	46.50	24km
			sP	04	51.50	
KER	29.13	288	ePc	04	43.00	-0.2
GZH	29.55	95	P	04	46.60	-0.2
			sP	04	58.60	
TAB	29.94	296	iPc	04	52.00	1.6
GRS	30.11	298	Pc	04	52.00	0.1
			iS	09	50.80	
BJI	30.41	61	iPc+	04	55.50	1.1
	1.5s	642.00nm			6.2mb	
			sP	05	08.00	
			eS	09	53.00	
HKC	30.54	96	P	04	55.00	-0.6
			S	10	00.00	
SVE	30.72	338	Pc	04	58.00	1.1
			iS	10	00.00	
TIA	30.80	68	Pc	04	58.30	0.4
			sP	05	10.60	
			S	10	01.60	
ARU	31.10	336	eP	05	01.00	0.8
			eS	10	06.50	
IPM	31.26	139	iPc	05	01.30	-0.7
	1.1s	165.00nm			5.8mb	
GRO	31.34	306	Pc	05	03.00	0.6
			iS	10	08.00	
BHD	31.43	286	iPd	05	03.50	0.1
PSI	31.70	144	ePd	05	04.00	-1.9
	0.8s	52.30nm			5.5mb	
LEN	32.18	300	Pc	05	12.00	1.9
			iS	10	24.00	
NJ2	32.39	76	Pc	05	12.30	0.5
			pP	05	19.20	24km
			sP	05	24.20	
			PcP	08	00.20	
			S	10	25.20	
BKR	32.57	302	Pc	05	15.70	2.2
			iS	10	32.70	
PYA	33.35	306	Pc	05	19.50	-0.5
			eS	10	37.50	
QZH	33.54	89	Pc	05	22.10	0.2
			S	10	42.60	
SSE	34.48	77	iPc	05	30.20	0.3
Z	20s	136.00um			6.7Msz	
N	20s	84.00um				
E	20s	106.00um				
			S	11	02.00	
KGM	34.66	138	ePc	05	32.20	0.6
	1.3s	465.00nm			6.2mb	
			(S)	08	06.00	
PPI	35.15	145	eP	05	36.20	0.4
			pP	38	20.00	
			iS	38	44.50	
TCU	35.59	89	P	05	39.20	-0.3
ANP	36.02	87	P	05	43.00	-0.2
			S	11	26.00	
BOD	36.29	30	Pc	05	45.00	0.0
HEN	36.35	93	eP	05	49.00	3.1X
TTN	36.44	91	P	05	53.00	6.3X
HWA	36.46	89	P	05	35.70	-11.2X
			eS	11	24.50	
PIP	37.65	98	iPc	05	57.70	0.8
	1.1s	233.00nm			5.9mb	
CN2	37.79	56	Pc	05	58.50	0.7
			pP	06	06.00	25km
			sP	06	10.50	
			PP	07	30.50	
SZP	37.84	100	ePc	06	00.00	1.5
	1.0s	414.00nm			6.2mb	
KVT	38.09	300	P	07	01.50	61.1X
BAG	38.45	101	iPc+	06	04.00	0.1
	1.5s	500.00nm			6.1mb	
			iS	12	00.00	
MAN	39.70	103	iPd	06	14.40	0.4
SIM	39.81	306	Pc	06	15.50	0.8
			isP	06	20.00	
			eS	12	18.00	
			isS	12	22.00	
ARO	39.86	251	iPc	06	12.30	-3.2X
EIL	39.92	282	Pc	06	17.00	1.2
NRI	39.99	4	Pc	06	14.00	-1.8
			iS	12	22.00	
PGP	40.16	105	iPc	06	17.30	-0.5
	1.0s	76.00nm			5.4mb	
MOS	40.25	323	Pc	06	18.00	-0.1
			iS	12	28.00	
PPR	40.31	112	iPd	06	18.80	-0.2
	1.2s	421.00nm			6.0mb	
			eS	12	13.50	
ANTO	40.55	298	iPc	06	21.00	0.1
KKM	40.56	118	iPc	06	23.30	2.0
	1.0s	499.00nm			6.2mb	
OBN	40.59	322	Pc	06	21.00	0.1
			iS	12	24.00	
MGN	41.01	299	P	06	26.30	1.6
BCK	42.39	294	P	06	35.30	-0.8
VLA	42.42	57	Pc	06	36.50	0.4
			iS	12	56.50	
GPA	42.45	299	P	06	35.30	-1.1
KLT	42.59	299	P	06	38.00	0.2
ALT	42.66	297	P	06	38.00	-0.3
LGP	42.68	103	ePd	06	38.50	0.0
HLW	42.93	283	iPc	06	40.00	-0.4
Z	12s	2.30um			5.3MszX	
			iS	13	04.00	
ELL	43.00	293	P	06	42.10	1.0
BKT	43.35	298	P	06	44.30	0.3
ISK	43.37	300	P	06	44.60	0.7
SHK	43.58	70	iPc	06	46.00	0.3
	1.4s	484.00nm			6.1mb	
KIS	43.64	308	Pc	06	46.00	0.0
			isP	06	48.00	
			ipP	06	50.00	13km
			iS	13	14.00	
DST	43.77	298	P	06	47.60	0.4
CTT	43.84	300	P	06	48.10	0.3
YER	44.25	294	P	06	51.50	0.3
EDC	44.31	299	P	06	51.40	-0.2
DMK	44.33	301	P	06	51.90	0.2
LEM	44.33	141	iP	06	54.50	2.4
BIR	44.45	307	P	06	55.00	2.4
AAE	44.58	251	eP	06	57.40	3.0X
PLP	44.73	105	iPc	06	55.20	0.1
MFT	44.73	299	P	06	54.80	-0.2
FOC	44.73	306	eP	07	56.00	61.1X
IZM	44.93	296	P	06	56.20	-0.4
VRI	45.06	307	eP	06	58.00	0.5
YAK	45.13	30	Pc	06	57.40	-0.3
			eS	13	26.20	
PUL	45.33	327	Pc	07	00.00	0.6
			eS	13	40.00	
BUC	45.49	305	eP	07	03.00	2.1
EZN	45.53	298	P	07	01.50	0.3
BUC1	45.54	304	iP	07	04.00	2.7
MLR	45.60	306	eP	07	04.00	2.0
			ePP	08	50.00	
			ePP	08	51.00	
			eS	13	26.00	
OIC	45.80	70	eP	07	04.00	0.4
ABU	45.88	69	ePc	07	04.00	-0.1
BKB	45.93	126	iPd	07	07.50	2.8
	1.0s	610.00nm			6.5mb	
DIM	45.94	301	eP	07	05.00	0.5
PVL	46.19	303	Pc	07	06.00	-0.4
CMP	46.24	306	eP	07	08.00	1.1
			i	07	25.00	67kmX
DRA	46.80	305	eP	07	12.00	0.7
LVV	47.04	312	Pc	07	13.80	0.7
			iS	14	03.00	
APA	47.22	337	Pd	07	14.50	0.3
			iS	14	08.00	
CJR	47.24	308	eP	07	16.00	1.2
DAV	47.40	109	Pc	07	17.00	0.7
			iS	14	12.00	
PPH	47.49	108	ePc	07	17.30	0.3
SOF	47.56	302	Pc	07	18.00	0.6
DEV	47.73	307	ePd	07	20.00	1.4

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MAT	47.73	66	iPc+	07	18.30	-0.5			P'P'	39	12.00				eScS	18	00.00						
	1.5s	306.00nm			6.1mb		NAI	52.27	242	eP	07	55.90	1.9	NAO	55.03	326	P	08	12.10	-1.4		
		eS	14	10.00				2.0s	618.00nm			6.2mb			1.0s	170.00nm			6.0mb			
ATH	47.75	296	ePc	07	19.00	0.1	TRO	52.89	337	iPc	07	57.40	-0.2	GRF	55.34	312	iPc	08	16.10	0.3		
		eS	14	12.00			ORI	53.02	300	P	08	00.00	1.0		2.8s	1950.00nm			6.6mb			
KJF	47.95	332	iPc+	07	20.00	0.0	PRU	53.17	312	iPc	08	00.00	0.1	Z	14s	30.30um			6.5MszX			
	0.6s	157.00nm			6.2mb			1.5s	324.00nm			6.1mb					iS	16	01.50			
		ePP	09	16.00			N	19s	38.00um					MNS	55.41	303	P+	08	15.50	-0.8		
TRT	47.95	136	iPc	07	19.00	-1.6	E	18s	9.70um								iS	16	03.20			
	1.3s	668.00nm			6.5mb					iPP	10	04.00		FUR	55.49	310	iPc	08	16.70	-0.2		
UZH	48.13	310	Pc	07	23.50	1.8				iS	15	31.00					eS	16	06.00			
		iS	14	23.00			PRA	53.24	312	iPc	08	01.00	0.6	RMP	55.50	302	P+	08	16.00	-1.1		
VAY	48.24	301	iP	07	21.80	-0.8				PP	10	02.00					iS	15	58.00			
		i	07	27.50	19km					S	15	36.00		SEY	55.56	32	Pc	08	17.30	0.0		
NUR	48.26	326	Pc+	07	22.60	0.2				ScS	17	54.00					eS	16	01.30			
		i	07	25.60	10km					SS	19	18.00		KON	55.65	324	iPc+	08	17.00	-0.9		
		ePP	09	14.00		FOG	53.46	302	P	08	04.50	2.4					S	16	00.00			
		eS	14	20.00		BRG	53.49	313	iPc	08	02.20	-0.1	AAI	55.94	118	ePc	08	19.30	-1.3		
SSR	48.58	305	P	07	26.00	0.7		1.3s	240.00nm			6.0mb			0.6s	64.60nm			5.8mb			
DDR	48.61	67	eP	07	24.70	-0.9	Z	18s	28.80um			6.4Msz		FIR	56.18	305	Pc	08	22.00	0.1		
SRY	48.74	67	eP	07	25.90	-0.7	N	18s	11.10um								S	16	10.00			
OYM	48.75	67	eP	07	25.50	-1.2	E	18s	29.00um					SIE	56.22	305	P+	08	27.20	4.9X		
TIM	48.91	307	P	07	28.00	0.3				iS	15	34.00		PRT	56.28	305	P	08	24.00	1.4		
SKO	49.02	302	iPc	07	28.00	-0.6	MOA	53.53	310	P	08	01.00	-1.6				ipP	08	36.00	42kmX		
		iPP	09	32.00						i	08	05.00	13km				iS	16	15.50			
		iS	14	30.00						i	08	22.00		ERC	56.38	298	P	08	21.00	-2.4		
WAR	49.07	315	ePc	07	28.00	-0.8	LJU	53.54	307	ePc	08	02.60	-0.1	SAL	56.38	307	P+	08	23.50	0.2		
Z	18s	50.00um			6.6Msz					ePcP	09	07.50					iPS	16	23.50			
		e	09	16.00	591kmX					ePP	09	58.50		STU	56.77	311	iPc+	08	25.60	-0.6		
		e	14	36.00						eS	15	29.50			1.0s	320.00nm			6.3mb			
TIK	49.28	18	ePc	07	30.00	-0.2	HFS	53.59	325	iP	08	02.20	-0.7	Z	20s	29.80um			6.4Msz			
		esP	07	33.00				0.7s	258.00nm			6.3mb					eS	16	20.00			
		eS	14	34.00			Z	14s	136.00um			7.2MszX		KUPT	56.93	127	eP	08	24.60	-3.0X		
JOS	49.30	310	Pc	07	30.80	0.1	KMR	53.60	310	iPc	08	03.00	-0.1	TNS	57.05	313	eP	08	27.50	-0.7		
TSK	49.30	66	eP	07	29.00	-1.9	KUR	53.77	54	Pc	08	04.00	-0.3	PCN	57.07	307	P-	08	29.50	1.3		
SAP	49.33	57	iP	07	31.50	0.6				iS	15	44.00		KBS	57.12	348	iPc	08	27.30	-1.0		
		eS	14	38.00		KHC	53.86	311	iPc	08	04.90	-0.2					i	08	30.00	9km		
SOD	49.49	336	eP	07	32.00	0.2		1.2s	162.00nm			5.9mb		ZUL	57.51	310	P	08	29.50	-1.9		
SPC	49.49	311	iPc	07	31.30	-1.1	Z	20s	10.30um			5.9Msz		BNS	57.74	314	iPc	08	32.80	-0.1		
Z	13s	22.50um			6.4MszX		N	23s	16.30um								iPP	20	46.00			
		e(S)	14	47.00			E	20s	9.20um								eS	26	34.00			
KYS	49.52	67	eP	07	32.10	-0.4				e	10	09.50	701kmX	BER	57.76	325	iPc	08	32.70	-0.2		
MIZ	49.63	62	iPc	07	33.60	0.2				S	15	40.00		WIT	57.80	316	iPc	08	33.50	0.3		
		S	14	43.00						e	07	17.50					e	08	46.00	44kmX		
KRA	49.69	312	iPc	07	33.40	-0.2	BRN	53.87	315	iPc	08	05.80	0.9	WTS	57.82	315	iPc	08	33.40	0.0		
	1.5s	172.00nm			5.8mb		RCI	54.01	298	P	08	06.20	0.0				i	08	51.50	70kmX		
Z	20s	21.20um			6.1Msz					eS	15	37.60		WLS	58.04	311	P+	08	34.00	-1.1		
N	20s	36.80um					CLL	54.06	314	iPc	08	05.80	-0.6	CDF	58.09	311	eP	08	35.10	-0.4		
E	20s	17.90um								i	08	16.00	34kmX		0.9s	49.10nm			5.5mb			
		i	07	36.90	12km					i	08	30.00		ORO	58.13	308	P	08	25.00	-10.8X		
		i	08	09.00						PcP	09	08.00		CVF	58.13	304	eP	08	35.10	-0.7		
		i	09	29.00						PP	10	12.00			0.9s	80.10nm			5.8mb			
		iS	14	43.00						PPP	11	08.00		ECH	58.20	311	P+	08	35.30	-0.9		
		i	17	25.00						PcS	13	17.00					ePP	10	42.00			
		i	18	11.00						S	15	42.00					ePPP	11	44.00			
PSZ	49.74	309	P	07	34.30	0.1				P'P'	38	30.00					iS	16	36.00			
MNI	50.13	116	ePd	07	37.00	-0.4	TRI	54.12	307	iPc	08	06.00	-0.9	BAF	58.38	310	P+	08	37.00	-0.5		
	1.2s	381.00nm			6.3mb					iPP	10	10.00		DIX	58.43	308	Pc	08	36.50	-1.6		
TIR	50.26	301	P	07	36.90	-1.3				e	13	14.00		SKR	58.45	46	eP	08	34.00	-3.9X		
KEV	50.27	338	Pc+	07	38.80	1.0				iS	15	42.00		ROB	58.48	306	P	08	36.00	-2.2		
		ePP	09	28.00						i	17	58.00		HEE	58.50	314	iPc	08	38.00	-0.2		
		ePcS	12	58.00		COP	54.20	319	ePc	08	07.00	-0.3					i	08	52.10	51kmX		
		eS	14	52.00			1.0s	200.00nm				6.1mb		BSF	58.51	310	iPc	08	38.30	-0.2		
BUD	50.35	309	Pc	07	38.60	-0.1				iPP	10	07.00		MEM	58.53	314	ePc	08	37.00	-1.4		
MKS	50.56	127	iPd	07	39.50	-1.2				iS	15	42.00					e	09	07.00	125kmX		
	1.0s	399.00nm			6.3mb					iPS	17	58.00					PcP	09	32.00			
SRO	50.81	309	iPc	07	43.30	1.1				iSS	19	22.00		WLF	58.60	313	ePc	08	41.00	2.1		
		PP	09	40.00		DUI	54.23	302	P+	08	07.50	-0.3					PP	10	56.00			
		S	14	56.00						iS	15	44.70					S	16	47.00			
		e	33	00.00		WET	54.32	311	iPc	08	08.00	-0.4					PS	16	57.00			
UME	51.01	330	Pc	07	43.30	-0.2	OVO	54.43	301	P	08	05.00	-4.3X	PNI	58.73	307	P	08	37.50	-2.5		
		i	07	43.80	2kmX		ALP	54.69	304	P	08	11.00	-0.1	HAU	58.77	311	iPc	08	39.00	-1.2		
		iS	14	59.20			MGD	54.73	35	Pc	08	10.00	-1.3	DBN	58.80	316	iPc	08	40.00	-0.3		
UPP	51.60	325	iP	07	47.40	-0.6				isP	08	14.00		N	20s	58.70um						
	1.0s	600.00nm			6.5mb		NYA	54.85	264	Pc	08	12.30	-0.5	E	19s	21.70um						
		iPP	09	49.00			HOF	54.85	313	iPc	08	12.10	-0.2				ePP	10	52.00			
		iS	15	07.00						iS	15	55.00					iS	16	45.00			
LCI	51.84	300	P	07	48.60	-1.5	AQU	54.89	303	P+	08	12.80	0.1				iScS	18	29.00			
KIR	51.89	335	Pc	07	49.40	-0.8				iS	15	47.20					i	22	17.00			
		i	07	50.10	2kmX		PRO	54.97	305	P+	08	14.60	1.4	DOU	59.51	313	Pc+	08	44.90	-0.3		
KHE	51.90	355	Pc	07	55.00	4.9X				eS	15	56.10					e	09	13.40	117kmX		
		iS	15	18.00		MOX	54.99	313	iPc	08	13.00	-0.3					PP	11	04.00			
SOP	52.00	309	P	07	51.00	-0.3		1.6s	407.00nm			6.2mb					e	12	11.00			
KSP	52.01	313	iPc	07	51.20	-0.1	Z	16s	33.80um			6.5MszX					S	16	51.00			
		eS	15	15.50			E	13s	21.20um					UCC	59.53	314	Pd-	08	45.00	-0.3		
VKA	52.12	310	iPc	07	52.80	0.6				ePP	10	18.00					e	09	13.10	115kmX		
		i	09	43.00	591kmX					iS	15	55.00					PcP	09	32.00			

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			S	16	56.00		GUD		68.03	305	iP	09	41.70	0.1		Z	21s	17.20um		6.4Msz
			ScS	18	36.00		ALM		68.15	301	iPc	09	41.50	-0.7	KDC		82.04	26	iPc	11	01.90	0.8
PET	59.62	43	eP	08	42.00	-3.9X			1.4s		8.40nm			4.7mb X	KIC		83.29	273	iP	11	08.80	0.4
			esP	08	44.00			N	15s		1.00um				FRB		83.87	347	ePc	11	10.00	-0.4
LMR	59.65	305	eP	08	46.20	0.0					iPP	12	17.10		SUR		84.11	228	iPc	11	15.00	2.6
	1.2s	117.00nm			5.9mb		TOL		68.23	304	Pc	09	43.00	0.3			1.4s	260.00nm			6.3mb	
NPA	60.07	228	P	08	50.00	0.5					i	18	42.00			Z	17s	91.80um			7.2MszX	
CDR	60.09	306	P	08	48.80	-0.5					iScS	19	48.00		ADE		84.13	136	Pc	11	12.20	0.0
			pP	08	59.60	36kmX					iSS	23	02.00		PDA		84.20	310	P	11	14.30	1.7
LBF	60.56	310	iPc	08	51.70	-0.8	SMY		68.71	41	eP	09	44.50	-0.8	HQN		85.27	19	eP	11	19.00	1.4
LOR	60.57	310	iPc	08	51.60	-1.0	CRT		68.87	302	iPc	09	46.50	-0.3	CER		85.72	228	iPd	11	21.00	0.8
GUMO	60.71	91	e(P)	08	52.50	-1.5					iS	19	13.00				0.6s	66.70nm			6.0mb	
			e(S)	17	05.00		REY		69.12	333	eP	09	49.30	1.6	KDS		86.72	282	iP	11	25.20	-0.3
SMF	60.73	310	iPc	08	53.20	-0.4	CIR		69.37	229	P+	09	49.00	-0.9	YKA		87.31	7	P	11	29.90	2.4
SSF	60.85	310	iPc	08	54.00	-0.5	WAB		69.41	109	P	09	51.00	0.4	YOU		89.86	130	Pc	11	39.80	-0.3
AVF	61.02	310	iPc	08	55.10	-0.5	SWV		69.63	149	Pc	09	49.20	-2.0					e	13	45.20	573kmX
PYM	61.50	309	Pc	08	58.50	-0.5	MAL		69.65	301	iPc	09	50.00	-1.4					e	15	12.60	
NAU	61.55	144	Pc	08	58.20	-1.2					ePP	12	17.00		TOO		89.99	134	Pc	11	41.20	0.6
			i	09	03.40	17km					iS	18	56.00		CAN		90.88	131	Pc	11	45.00	0.2
MZF	61.67	309	iPc	09	00.00	-0.1	MUN		69.77	149	iPc	09	49.50	-2.6					i	11	53.40	26km
TCF	61.91	310	iPc	09	01.70	0.0			1.0s		440.00nm			6.5mb	WAM		91.32	131	P	11	47.40	0.7
CAF	62.36	308	iPc	09	04.70	0.0		Z	20s		29.00um			6.5Msz					e	11	55.90	26km
LSF	62.37	310	iPc	09	04.30	-0.4		N	20s		11.00um				SCH		91.45	342	eP	11	47.00	-0.3
RJF	62.63	309	iPc	09	06.80	0.4		E	20s		17.00um				RIV		91.46	128	iPc	11	57.00	9.6X
MBL	62.79	139	Pc	09	05.90	-1.9	STS		70.27	309	eP	09	55.00	-0.1	FCC		91.83	357	eP	11	48.00	-0.8
SSC	62.85	312	iPc	09	07.10	-0.7	WBN		70.55	137	Pc	09	55.90	-1.1	STJ		92.64	331	eP	11	57.00	4.2X
EDI	62.90	321	iPc	09	07.50	-0.5	MOM		70.59	104	Pc	09	58.30	0.8	KOU		94.30	111	Pc	12	01.60	0.9
	0.8s	148.00nm			6.2mb		BUL		70.77	232	P+	09	57.00	-1.6	TAU		94.36	138	eP	12	05.00	4.5X
EBH	63.00	321	iPc	09	08.10	-0.6					iS	19	08.00		FFC		95.92	2	iPc	12	07.50	-0.3
	0.9s	122.00nm			6.1mb		PTO		70.98	307	iPc	09	59.50	0.1			1.3s	179.00nm			6.4mb	
EKA	63.02	320	Pd	09	08.80	-0.1					iS	19	12.00		PVC		96.24	107	Pc	12	13.80	4.2X
	0.9s	182.00nm			6.2mb		NWAO		71.04	148	iPc	09	57.60	-2.2	MIR		96.33	175	ePd	12	09.00	0.0
LPO	63.02	308	iPc	09	09.10	0.1			0.9s		450.00nm			6.6mb					eS	23	22.00	
	0.7s	59.70nm			5.9mb			Z	20s		10.00um			6.1Msz	EDM		96.52	9	iPc	12	10.70	0.1
FLN	63.04	313	iPc	09	08.20	-0.9		N	20s		10.00um				NOU		96.91	112	Pd	12	14.10	1.5
	0.9s	72.20nm			5.8mb			E	20s		11.00um				MAW		97.93	187	Pc	12	16.30	0.2
ESK	63.05	320	iPc	09	08.50	-0.6	WRA		71.14	127	Pd	10	00.50	-0.2	PNT		99.24	14	eP	12	23.00	0.1
	1.0s	200.00nm			6.2mb				1.2s		630.00nm			6.6mb	YKM		100.40	11	iPdiff	12	28.70	0.5
			e	12	33.00		WB2		71.15	127	Pc	09	59.30	-1.5	NEW		100.73	12	ePdiff	12	30.00	0.5
EAU	63.06	321	iPc	09	08.80	-0.4					eS	19	11.40			Z	20s	19.00um			6.6Msz	
	1.1s	228.00nm			6.2mb		KLG		71.32	144	Pc	09	59.80	-1.8		N	20s	10.00um				
LFF	63.26	308	iPc	09	10.70	0.1	LIS		72.33	305	Pc	10	07.90	0.3		E	20s	14.00um				
GRR	63.38	312	iPc	09	10.40	-0.9					iPP	12	58.70		LDM		100.86	11	iPdiff	12	31.00	0.9
MFF	63.40	310	iPc	09	10.80	-0.7					S	19	36.00		LHC		101.81	353	ePdiff	12	31.00	-3.2X
LPF	63.59	312	iPc	09	12.00	-0.8	LML		72.80	108	P	10	10.50	-0.2	MSO		102.67	11	ePdiff	12	40.00	1.8
	1.0s	66.30nm			5.7mb		ASP		73.38	130	Pc	10	13.50	-0.4					e	16	56.00	
DAG	63.60	345	iPc	09	10.80	-1.6					e	19	37.00						e	23	24.00	
	1.2s	169.00nm			6.1mb		MBC		73.57	5	iPc	10	14.80	0.6	HRF		103.18	9	ePdiff	12	41.50	1.0
			iS	17	45.00		JOZ		73.65	224	Pd	10	15.00	-0.3	CMT		103.27	9	ePdiff	12	41.30	0.3
SGR	63.60	312	ePc	09	11.90	-0.9	PMG		74.41	111	Pc+	10	20.10	0.1	BUT		103.67	10	ePdiff	12	42.30	-0.5
BNG	64.04	260	iPc	09	14.50	-1.8	LMG		74.94	110	eP	10	23.00	-0.3	LD3		103.84	5	ePdiff	12	43.50	0.1
	0.7s	293.00nm			6.5mb		ISQ		75.33	124	Pc	10	25.00	-0.2	BDW		107.26	8	(Pdiff	12	55.00	-4.0X
BCAO	64.05	260	ePc	09	14.00	-2.3					e	20	01.00						ePP	17	08.30	
EPF	64.08	306	iPc	09	15.20	-0.9	RAB		75.76	103	Pc	10	28.00	0.2	BKS		109.36	19	ePdiff	13	20.00	11.9X
MTN	64.11	124	Pd	09	15.10	-1.5					eS	20	12.00			Z	20s	16.40um			6.6Msz	
KNA	64.42	128	Pd	09	17.30	-1.2	KSR		75.82	229	iPc	10	24.00	-4.1X		N	22s	9.30um				
TET	64.61	232	Pc	08	24.00	-55.8X			1.1s		160.00nm			6.0mb		E	20s	11.80um				
JAY	65.25	108	ePc	09	22.00	-2.1	IMA		75.84	20	iPc	10	27.50	-0.1					ePP	17	15.10	
	1.0s	85.90nm			5.9mb		RES		75.89	359	eP	10	27.50	0.0					iSKS	23	50.00	
DDK	65.33	319	iPc	09	23.60	-0.3			0.9s		124.00nm			6.0mb					eP'P'	38	02.00	
	1.5s	640.00nm			6.6mb		GDH		76.00	345	iPc	10	28.00	-0.2	EUR		109.40	14	iPdiff	13	08.20	-0.4
DLE	65.47	319	iPc	09	24.60	-0.3			1.0s		156.00nm			6.0mb			1.3s	3.08nm				
	1.5s	540.00nm			6.5mb			Z	20s		49.00um			6.8Msz	MHC		110.03	19	ePKP	17	15.00	1.7
DMU	65.50	319	iPc	09	25.00	-0.1					iPP	13	18.00		GOL		110.74	5	ePKP	17	14.90	0.2
	1.0s	610.00nm			6.7mb						iPPP	15	11.00			Z	18s	26.40um			6.9Msz	
ECP	65.70	318	iPc	09	26.00	-0.3					iS	20	07.00		KRP		110.76	123	ePKP	17	22.00	7.6X
	1.5s	990.00nm			6.7mb		PRY		76.17	228	P	10	29.70	-0.4					e	28	22.00	
DCN	65.88	319	iPc	09	27.40	-0.1	ESA		77.59	109	Pc	10	38.70	0.7	FRI		110.89	18	ePKP	17	15.00	0.3
	1.5s	820.00nm			6.7mb		COL		78.39	19	iP	10	41.80	0.2	NVL		111.25	199	ePdiff	13	22.00	6.3X
ALI	66.16	302	iPd	09	30.00	0.5			1.2s		253.00nm			6.1mb	AFI		111.49	94	ePKP	17	23.00	6.5X
			iS	18	18.00						e	13	43.00						SKS	24	08.00	
LGR	66.25	307	iPc	09	30.00	-0.1					eS	20	38.00						e	25	40.00	
			iPP	11	57.40		FBA		78.39	19	iPc	10	41.70	0.1					e	27	40.00	
			iS	18	20.50		INK		79.02	12	iPc	10	44.40	-0.5					e	32	00.00	
MTD	66.42	233	P+	09	31.00	-0.6			1.2s		377.00nm			6.3mb					SSS	37	12.00	
MEK	66.46	144	Pc	09	29.30	-2.2	CTA		79.88	120	P	10	50.10	-0.3					e	42	28.00	
ILT	66.58	24	Pc	09	31.50	-0.3					iS	20	51.00		MNG		111.70	125	ePKP	17	20.00	3.8X
			eS	18	22.00		HVD		79.95	226	Pc	10	54.00	3.2X					e	28	18.00	
KTG	66.61	339	iPc	09	32.80	0.9	PKR		80.02	227	P	11	52.10	61.0X	FVM		112.25	353	ePKP	17	17.30	0.0
	1.1s	96.00nm			5.9mb		PMR		80.44	22	ePc	10	52.70	0.0		Z	21s	17.60um			6.6Msz	
			iPP	12	02.00				1.3s		151.00nm			5.9mb	GCA		112.66	11	e(PKP)	17	17.00	-1.2
			iS	18	28.00			Z	19s		31.50um			6.7Msz	ORT		113.35	347	ePKP	17	22.50	3.0X
ALE	66.68	355	eP	09	32.00	-0.3	WIN		80.52	237	iPc	11	54.40	60.4X	TKL		113.49	347	ePKP	17	22.10	2.4
AKU	67.02	334	iPc+	09	35.50	0.9			1.3s		108.00nm				PAS		113.98	17	Pdiff	13	30.00	1.3
	0.9s	1650.00nm			7.2mb X			Z	19s		29.50um			6.7Msz					P	17	20.00	
			e	11	54.40	728kmX	GRM		81.15	224	iPc	10	57.20	0.3					PP	18	18.00	
KRI	67.83	234	P+	09	40.00	-0.6			1.2s		244.00nm			6.1mb					PPP	20	41.00	

29d 15h

			SKS	24	06.00					ePP	22	24.00						iSn	28	48.00		
			SKKS	25	10.00					ePPP	25	48.00			MFF	10.44	354	P	27	54.60	-1.8
			PS	27	47.00					eSS	41	50.00			VG1	10.49	32	P+	28	00.00	3.0X
			PKKP	28	01.00					eSSS	47	46.00			SMF	10.58	9	P	27	58.00	-0.4
			PPS	29	08.00		CEN	154.03	258	e(PKP)	18	30.00	-2.9X		ORO	10.64	26	P	28	00.50	1.3
			SS	34	28.00		TLL	155.67	262	PKP	18	37.00	1.6		PRT	10.67	41	P	28	02.50	3.0X
			SSS	38	22.00		SAN	155.68	254	ePKP	18	42.00	7.0X					iSn	30	06.00	
PAS	113.98	17	ePKP	17	20.00	-0.8	LNV	156.29	253	ePKP	18	37.00	1.3		AVF	10.67	7	P	27	58.70	-0.8
	Z 20s		18.00um			6.7Msz	TMU	156.51	240	PKP	18	37.00	1.1		FIR	10.68	42	P	28	01.50	1.8
	N 20s		10.00um					S.D. = 1.0		on 383 of 449 obs.					MNS	10.69	51	P	27	57.00	-2.9
	E 20s		13.00um															iSn	29	56.00	
			ePP	18	18.00		OCT 10, 1980 12h 25m 23.81± 0.08s								PCN	10.83	33	P+	28	05.00	3.3X
			ePKKP	28	01.00		36.213 N ± 1.3km 1.395 E ± 1.2km											i	28	14.50	
RLO	114.43	357	iPKP	17	21.60	0.0	DEPTH = 11.1km (14 depth phases)											iSn	30	08.00	
PRM	114.71	345	ePKPd	18	22.20	60.0X	6.3mb (48 obs.) 7.2Msz (14 obs.)								DIX	10.85	23	Pc	28	02.50	0.3
TUL	114.72	357	iPKP	17	21.50	-0.6	ALGERIA (396)								PRG	10.91	48	P	28	04.00	1.1
	1.2s		63.00nm				At least 5000 people killed.											eSn	30	09.00	
	Z 20s		4.16um			6.0Msz	9000 injured ond extensive								LBF	10.93	9	P	28	02.20	-1.0
SNA	115.43	202	PKP	17	22.70	0.3	damage in the El Asnam areo.								SSF	10.95	8	P	28	03.00	-0.4
GLA	115.83	15	ePKPc	17	25.80	1.4	Felt throughout northwestern								YBT	11.13	238	P	28	14.00	8.2X
TUC	117.35	11	ePKPd	17	28.50	1.1	Algeria and in southeastern								AQU	11.14	53	P	28	06.00	0.0
SBA	117.85	166	iPKP	17	27.20	0.4	Spain. Approximately 42 km. of								OVO	11.18	62	P	28	04.50	-2.0
			e	17	35.00		surface rupture observed.								LOR	11.20	9	P	28	06.20	-0.6
			SKS	24	28.00										SGG	11.37	59	P	28	06.30	-2.9
			PS	28	38.00		ALI	2.61	325	iPn	26	06.00	-0.6		ALP	11.46	51	P+	28	10.40	0.0
			SS	34	58.00		ALM	3.17	283	iPn	26	13.00	-1.5		RCI	11.53	76	P	28	11.40	0.2
			LQ	48	00.00		CRT	4.13	285	iPnd	26	28.90	0.7					iSn	30	13.40	
			LR	54	00.00		EBR	4.65	352	ePn	26	35.00	-0.6		DUI	11.53	58	P	28	12.50	1.2
SPA	119.49	180	ePKPc	17	29.70	-0.7				e	37	56.00			NEC	11.55	19	Pc	28	10.50	-1.1
	0.9s		25.20nm				MAL	4.71	278	iPn	26	35.60	-0.8		OII	11.57	76	P	28	15.80	4.0X
	Z 20s		33.70um			7.0Msz				iS	27	50.00			SAL	11.64	34	P	28	17.50	4.7X
MOT	119.80	5	iPKP	17	26.20	-6.0X	TOL	5.64	312	Pnd	26	48.00	-1.7					iSn	30	51.00	
JCT	120.19	1	ePKP	17	32.00	-0.7	IFR	6.00	245	Pn	26	52.50	-2.3		PRO	11.70	45	P-	28	18.00	4.4X
	0.9s		77.70nm				BMK	6.03	260	Pn	26	56.00	0.9		LPF	11.95	352	P	28	15.20	-1.7
	Z 20s		12.40um			6.5Msz	GUD	6.21	317	iPn	26	55.80	-1.9					Sn	30	23.10	
HKT	120.65	357	ePKP	17	33.60	0.1	HAD	6.42	231	Pn	26	59.00	-1.7		BBS	12.13	20	Pc	28	18.00	-1.4
SOB3	122.85	278	PKP	17	38.50	0.3	EPF	6.86	354	Pn	27	06.40	-0.4		FOG	12.21	60	P	28	25.00	4.5X
			e	17	41.60		LGR	6.93	335	iPnd	27	10.00	2.3		BSF	12.28	17	P	28	20.20	-1.3
			e	17	44.60			0.9s		7.00nm			4.8mb X		GRR	12.28	353	P	28	20.00	-1.4
			e	17	51.60					eSn	28	30.00						Sn	30	28.50	
TRN	126.05	312	iPKPc	17	45.70	1.3	KCHT	6.94	80	iPn	27	05.60	-2.3		BAF	12.33	18	P-	28	22.00	-0.2
	0.9s		128.00nm				CGL	7.00	61	Pn-	27	04.50	-4.4X		HAU	12.34	16	P	28	21.30	-0.9
CAR	129.57	318	iPKPc	17	50.00	-1.3	ZGN	7.04	86	iPn	27	07.00	-2.4		ZUL	12.40	23	Pc	28	22.50	-0.5
	1.2s		144.00nm				BMB	7.06	254	Pn	27	07.00	-2.5		SSC	12.41	355	P	28	21.80	-1.3
	Z 22s		7.41um			6.3Msz	SBS	7.24	82	iPn	27	12.50	0.4					Sn	30	31.60	
RDJ	130.02	264	PKP	17	49.00	-2.7X	MBZ	7.49	84	iPn	27	13.60	-2.0		ORI	12.46	68	P	28	26.60	2.8
			iPP	20	08.00		AVE	7.81	251	Pn	27	19.00	-1.1		CTI	12.49	35	P	28	25.00	0.7
			iPKS	21	19.20					Pg	27	51.00			FLN	12.62	354	P	28	24.40	-1.5
			ePPP	22	56.40		LMR	8.13	27	P	27	22.30	-2.1					Sn	30	37.80	
			eSKS	25	07.60					Sn	28	48.20			BUB	12.70	23	Pc	28	26.50	-0.6
			eSKKS	27	02.40		MTE	8.17	303	iP	27	24.00	-1.2		ECH	12.73	18	P	28	26.90	-0.5
			ePPS	31	55.60		LRG	8.18	26	P	27	23.30	-1.8		OGA	12.85	31	iPc	28	32.30	3.1X
			eSS	37	25.20					Sn	28	47.80			CDF	12.94	18	P	28	28.50	-1.8
IIC	130.86	0	ePKP	17	54.40	0.5	FRF	8.37	27	P	27	25.60	-2.3		RCL	13.05	37	P	28	32.80	1.1
BAO	131.36	275	ePKP	17	53.50	-1.1				Sn	28	53.90			BRT	13.22	65	P	28	35.00	1.1
IIT	131.60	359	ePKP	17	55.60	0.4	LPO	8.46	359	P	27	28.00	-1.1		STR	13.22	19	P+	28	30.00	-3.9X
III	132.25	1	ePKP	17	57.40	1.0	CVF	8.58	40	P	27	27.20	-3.7X		UDI	13.27	38	P	28	34.40	-0.1
PPT	132.36	87	ePKP	18	01.00	4.7X				Sn	28	56.80			TRI	13.30	41	P+	28	34.50	-0.5
	1.1s		90.00nm				BME	8.61	234	P	27	29.00	-2.4					eSn	31	07.00	
VHO	133.34	357	iPKP	18	00.00	1.6	COI	8.69	300	P	27	30.40	-1.9		GAP	13.35	30	iPc	28	38.40	2.7
UAV	133.52	321	ePKP	17	46.30	-12.6X	CAF	8.72	3	P	27	31.30	-1.4		BUH	13.43	20	eP	28	35.60	-1.1
	0.8s		37.00nm				LFF	8.73	357	P	27	31.80	-1.0		LCI	13.64	67	P+	28	44.80	5.3X
LPS	135.31	347	ePKP	17	46.50	-15.6X	LIS	8.75	290	Pc	27	30.20	-2.9		CEY	13.68	42	iPc	28	39.90	-0.1
FUO	137.54	321	ePKP	17	59.00	-7.7X				eS	29	07.00			RBL	13.70	38	P	28	40.50	0.2
LCR	138.29	338	PKPc	18	07.70	-0.2	TIO	8.94	236	P	27	34.00	-1.9					i	28	53.50	
AIA	138.42	201	e(PKP)	18	09.00	2.7X	RJF	9.08	1	P	27	36.60	-1.1		STU	13.80	22	ePc	28	41.50	0.0
CHN	138.96	323	ePKP	18	09.00	-0.1	STV	9.21	28	P	27	39.00	-0.6		WLF	13.88	13	ePc	28	49.00	6.4X
OTP	140.17	83	ePKP	18	16.00	5.1X	PTO	9.23	305	P	27	36.30	-3.5X					S	31	17.00	
	1.2s		170.00nm							i	29	26.00			LJU	13.93	41	iPc	28	44.10	0.9
PSO	143.05	322	iPKP	18	13.50	-3.2X	SSB	9.36	14	eP	27	41.70	0.1					eS	31	14.50	
LPA	145.15	251	PKPd+	18	20.20	1.1	ROB	9.46	30	P	27	41.50	-1.5		FUR	13.99	28	iPc	28	45.40	1.3
	1.0s		1840.00nm				GRN	9.60	19	iP	27	45.30	0.3			1.5s	4000.00nm			7.0mb	
	Z 20s		22.70um			6.9Msz	PYM	9.61	7	Pd	27	44.50	-0.5		DOU	14.07	9	Pd	28	45.50	0.4
NCE	145.23	322	PKP	18	21.60	1.1	PNI	9.79	26	P	27	47.70	0.2					e	28	46.40	
BAA	145.59	251	PKP	18	19.40	-0.5				eS	29	37.00						i	28	48.10	
RKT	147.12	87	iPKP	18	24.20	1.5	GEN	10.01	33	P	27	48.90	-1.5					S	31	22.00	
	1.1s		240.00nm							eS	29	39.00						e	33	22.40	
ZOBO	148.80	288	iPKP	18	26.80	0.5	LSF	10.03	1	P	27	49.00	-1.8		BHG	14.30	33	iPc	28	50.00	1.8
LPB	148.92	288	PKP	18	27.50	1.2				Sn	29	34.90			ZAG	14.58	44	iP	28	52.90	1.1
SLA	149.95	271	PKPc	18	28.40	1.1	MZF	10.03	5	P	27	49.50	-1.3					iS	31	38.60	
CYA	151.09	264	PKPc	18	30.20	1.4	TCF	10.08	3	P	27	49.80	-1.7		UCC	14.74	7	Pc+	28	54.10	0.3
ARE	151.66	292	PKPc	18	31.50	1.3	STS	10.16	314	iPd	27	50.50	-2.1					e	28	56.50	
HUA	151.95	304	iPKPc	18	33.80	2.9X				Sn	31	22.50						e	28	59.30	
NNA	153.00	306	PKP+	18	32.80	0.9	GIB	10.24	76	P-	27	56.00	2.2					S	31	43.00	
VCA	153.23	264	PKPc	18	34.50	2.5				iSn	29	48.50			MEM	14.77	12	Pc	28	58.60	4.4X
CFA	153.59	258	PKPc	18	33.80	1.5				i	32	39.00						S	31	48.00	
ANT	153.91	276	PKP	18	34.50	1.7	RMP	10.42	54	P	27	56.00	-0.2		KLL	14.86	12	eP	28	58.70	3.3X

10d 12h

STB	14.90	14	iPc	28	58.90	2.9X				iS	33	00.00						iS	34	45.00			
TNS	14.91	18	eP	28	57.90	1.8	DLE	17.96	344	iPd	29	36.70	1.9					isS	34	51.00			
KOE	14.93	16	eP	28	59.50	3.3X		1.7s	5500.00nm				6.4mb	BCK	23.36	78	P+	30	34.00	0.9			
MOA	15.03	35	iPc	28	59.00	1.3	DDK	18.01	345	iPd	29	39.00	3.6X	KON	24.05	10	iP	30	40.30	0.8			
			PP	29	10.00		SOF	18.11	62	Pc	29	32.00	-4.9X	BER	24.32	5	iP	30	44.30	2.2			
			e	37	47.00		DCN	18.18	343	iPd	29	39.40	1.9	SYT	24.40	78	P-	30	44.00	0.7			
HEE	15.03	11	iPc	29	00.00	2.4		2.0s	7900.00nm				6.5mb	MGN	24.46	70	P	30	42.90	-0.8			
			i	29	02.90		BRN	18.23	24	iPc	29	41.00	2.8	HFS	25.22	14	eP	30	49.50	-1.2			
KMR	15.12	35	iPc	29	00.30	1.5				eS	33	03.50			1.0s	417.00nm				6.1mb			
WOL	15.21	354	iPd	29	00.20	0.2	HAM	18.26	16	iPc	29	42.60	4.1X		Z 12s	806.00um				7.5MszX			
CLG	15.24	13	iPd	28	57.50	-2.8X	GZR	18.56	54	eP	29	42.00	-0.4	NAO	25.36	11	P	30	51.70	-0.4			
GRFO	15.25	25	iP	29	02.10	1.6				i	32	52.00			1.0s	508.00nm				6.2mb			
GRF	15.25	25	ePc	29	00.20	-0.4	DMU	18.61	344	iPd	29	43.90	1.0	KAS	25.66	69	P-	30	55.50	0.3			
	Z 11s	1460.00um						1.7s	3600.00nm				6.3mb	HLW	25.83	96	iPc	30	58.00	1.3			
			i	29	05.00		JOS	18.67	43	Pc	29	43.60	0.0				iS	34	22.00				
			eS	32	03.50					e	30	44.00		UPP	25.89	19	iPc	30	55.00	-2.0			
TIR	15.28	65	P	28	59.40	-1.6				i	31	48.00			1.1s	2400.00nm				6.8mb			
BNS	15.32	14	iPd	29	06.40	5.0X				i	32	31.00					iS	35	28.50				
	1.4s	6.20nm				3.8mb X	DEV	18.83	53	Pc	29	46.00	0.4	SIM	26.20	60	Pc	30	59.50	-0.5			
			i	32	47.00		SPC	18.91	41	iP	29	49.10	2.3				iS	35	39.50				
HOK	15.36	14	iPd	29	07.40	5.4X	NIE	19.09	40	iP	29	50.50	1.7	KVT	27.38	69	P	31	10.80	-0.2			
WET	15.41	29	iPc	29	02.20	-0.5	KRA	19.28	38	eP	29	50.30	-0.8	NUR	28.50	24	Pc	31	20.20	-0.6			
			i	29	04.40			1.3s	2080.00nm				6.2mb				i	31	22.20	7km			
KHC	15.69	31	iPc	29	05.10	-1.1				i	29	53.10	11km				eS	36	04.00				
	1.3s	1150.00nm				5.9mb				i	30	01.60		EIL	28.85	94	Pc	31	23.50	-0.8			
			i	29	06.40					iS	33	37.30		UME	29.92	17	P	31	32.50	-1.0			
			i	29	08.50		DRA	19.30	57	eP	29	51.00	-0.4				ipP	31	35.60	11km			
			e	34	55.50		CEI	19.34	47	eP	29	53.00	1.1	KUK	29.93	184	Pc	31	33.50	-0.5			
			e	35	36.70					eS	33	40.00		PUL	30.06	29	Pc	31	34.00	-0.8			
			e	36	22.00		ESK	19.37	352	iPd	29	53.50	1.4				iS	36	39.00				
HOF	16.00	25	iPc	29	11.30	1.0		1.0s	2160.00nm				6.4mb	SOC	30.10	64	Pc	31	35.00	-0.4			
			i	29	14.20		EKA	19.38	352	Pd	29	55.40	3.2X	KIC	30.24	192	eP	31	34.00	-2.8			
SOP	16.05	40	Pc	29	11.20	0.4		0.8s	234.00nm				5.5mb	OBN	30.58	41	Pc	31	39.50	0.0			
			e	30	04.00		KDZ	19.38	66	Pc	29	52.00	-0.5				iS	36	45.00				
			eSS	32	30.00		PVL	19.53	62	Pc	29	52.00	-2.1	SUF	30.63	22	iP	31	39.00	-0.9			
DBN	16.11	8	iPd	29	17.00	5.4X	DIM	19.62	65	eP	29	56.00	0.9	REY	31.31	340	eP	31	50.60	4.8X			
			iS	32	12.00		UZH	19.73	45	P	29	56.00	-0.2	MOS	31.35	40	Pc	31	47.00	0.8			
MOX	16.20	24	iPc+	29	14.00	1.2	EBL	19.80	353	ePc	29	57.10	0.2				iS	36	53.00				
			S	32	20.00			0.6s	14.70nm				4.5mb X	AKU	31.67	345	iP	31	50.00	1.0			
			e	37	30.00		EGL	19.85	353	ePc	29	57.60	0.1		1.1s	9000.00nm				7.6mb X			
WTS	16.24	12	iPd	29	18.30	5.0X		0.6s	42.00nm				4.9mb X				i	31	54.20	15km			
			i	29	20.30		MDB	19.88	53	eP	29	56.00	-1.8	NYA	32.06	133	P+	31	52.60	-0.3			
			i	29	22.60					eS	33	42.00					pP	31	56.50	14km			
VKA	16.31	38	iPc	29	15.70	1.5	EAU	19.91	352	iPc	30	01.00	2.9X	KJF	32.21	21	Pc	31	52.80	-0.9			
			i	29	18.00			1.1s	2050.00nm				6.4mb				i	31	55.00	8km			
			PP	29	30.00		EZN	19.95	72	P	29	55.80	-2.8				ePP	33	00.00				
			S	32	18.00		EDI	19.96	352	ePc	29	58.80	0.2				eS	37	00.00				
			SS	32	34.00			0.6s	49.00nm				5.0mb X	PYA	32.52	63	Pc	31	56.00	-0.7			
			e	37	20.00		CMP	20.01	56	Pd	30	01.00	1.7				iS	37	19.00				
VIE	16.32	38	iPc	29	15.50	1.2	EBH	20.31	352	ePc	30	02.30	0.0	BKR	32.96	67	Pc	32	00.60	-0.1			
PRU	16.75	31	Pc	29	20.00	0.3		0.6s	21.70nm				4.7mb X	LEN	33.30	69	Pc	32	03.00	-0.6			
	2.9s	5190 00nm				6.2mb	EAB	20.36	351	iPc	30	05.50	2.8				eS	37	20.00				
			S	32	46.00			1.1s	1780.00nm				6.3mb	KIR	33.46	13	P	32	03.10	-1.4			
			i	20	24.50		BUC1	20.42	59	eP	30	04.00	0.5				ipP	32	06.10	10km			
PRA	16.77	30	iP	29	20.00	0.1	BUC	20.48	59	eP	30	04.00	-0.1	SOD	34.36	17	P	32	10.60	-1.7			
			S	32	22.00		ELO	20.56	352	ePc	30	06.80	2.0				i	32	12.20	5km			
TEN	16.78	248	iPc	29	21.10	0.9		1.1s	1090.00nm				6.1mb	GRO	34.45	64	Pc	32	13.40	0.1			
			iPcS	37	16.50		IZM	20.67	76	P	30	06.50	0.3				eS	37	34.00				
BEO	16.82	53	P	29	21.40	0.7	MLR	20.69	56	eP	30	04.00	-2.4	TRO	34.82	11	iP	32	16.40	0.2			
			iSg	32	41.00					iS	33	47.00		BCAO	35.35	149	iPc	32	19.80	-1.5			
ECP	16.89	343	ePd	29	23.60	2.2	MFT	20.74	69	P	30	07.00	0.1		1.5s	433.00nm				6.1mb			
	2.5s	9700.00nm				6.5mb	COP	20.88	18	iPd	30	09.40	1.3	GRS	35.36	71	Pc	32	21.20	-0.2			
WIT	17.01	11	eP	29	26.50	3.5X		1.1s	3040.00nm				6.6mb	TAB	35.60	73	iPc	32	23.00	-0.5			
			e	29	29.00		ISR	20.99	57	eP	30	10.00	0.6	MAK	35.75	65	Pc	32	24.80	0.4			
			i	29	33.20		EDC	21.15	71	P	30	10.30	-0.8				iS	37	57.00				
HRB	17.03	42	eP	29	26.00	2.8	DMK	21.19	67	P	30	09.80	-1.7	APA	36.23	20	Pc	32	28.00	-0.2			
			iS	32	46.60		WAR	21.21	35	eP	30	12.00	0.5	KEV	36.36	15	iP	32	27.40	-1.9			
SRO	17.06	42	iP	29	36.30	12.7X	LVV	21.31	43	Pc	30	13.00	0.4		1.0s	1220.00nm				6.7mb			
			e	41	00.00					iS	34	13.00		TEH	40.09	75	eP	33	01.00	-0.1			
BRG	17.21	28	iPc	29	26.50	1.0	VRI	21.32	55	P	30	13.00	0.2	DAG	41.65	353	iPc	33	13.20	0.1			
CLL	17.23	25	iPc	29	27.00	1.3	ODB	21.52	56	eP	30	15.00	0.3		0.9s	244.00nm				5.9mb			
			i	29	29.00		YER	21.56	80	P-	30	14.50	-0.8				i	35	00.00				
			i	29	34.00		CTT	21.63	69	P	30	15.20	-0.7				i	39	02.00				
			i	29	45.00		PDA	21.65	282	P	30	20.00	3.9X	SHD	42.67	73	eP	33	22.50	0.3			
			S	32	35.00		DST	21.72	73	P	30	17.40	0.5	ARU	42.91	43	Pc	33	21.80	-1.9			
BUD	17.26	44	Pc	29	27.20	1.1	BIR	22.04	55	eP	30	20.00	0.0				eS	39	51.00				
			e	30	09.00		IST	22.05	69	P+	30	20.00	-0.1	KAT	42.96	69	Pc	33	25.50	1.1			
			e	31	18.00		CFR	22.10	58	eP	30	18.00	-2.5				eS	39	40.50				
			eS	32	33.00		ISK	22.10	69	P	30	19.60	-1.0	SHI	43.01	84	ePc	33	26.00	0.9			
SSR	17.68	55	P	29	31.50	0.0	BKT	22.12	71	P	30	22.00	1.0	AAE	43.40	119	eP	33	30.20	1.6			
			e	32	48.00		IAS	22.30	52	eP	30	22.00	-0.5	SVE	44.05	43	Pc	33	34.00	1.0			
TIM	17.70	51	eP	29	31.00	-0.6				eS	34	25.00					iS	40	08.00				
VAL	17.77	336	iP	29	33.00	0.5	ADH	22.83	285	P	30	30.30	2.5	GDH	44.34	335	iPc	33	50.00	14.8X			
			iS	32	42.00		ALT	22.88	74	P-	30	28.50	0.1		1.0s	100.00nm							
DKM	17.87	345	iPd	29	35.90	2.2	ELL	22.90	80	P+	30	28.00	-0.7				i	34	51.00	296kmX			
	1.5s	3800.00nm				6.3mb	GPA	23.02	71	P	30	29.90	0.2				iPP	35	11.00				
ATH	17.89	78	iPc	29	34.00	-0.1	KIS	23.09	54	Pc	30	30.00	-0.2				iPcP	35	20.00				

10d 12h

			i	39	04.00					e	36	32.00	184kmX				iS	46	21.60		
			iS	39	40.00					e(S)	44	07.00		KOD	72.82	90	P	36	54.70	-0.3
ARO	44.69	113	iPc	33	39.70	1.0				e	44	21.00					PcP	37	12.00		
			i	33	43.80	14km				e	47	37.00					PP	39	41.00		
			e	35	26.00		CLE	62.42	303	iPc	35	51.80	2.8				PPP	41	28.00		
			eScS	43	46.00		NDI	62.94	73	iPc	35	49.50	-3.1X				eS	46	22.00		
			eScS	43	53.30			0.9s	143.00nm			6.2mb					PS	46	52.00		
MAIO	46.22	72	Pc+	33	49.00	-1.7		Z 20s	80.80um			6.9Msz					SKS	46	57.00		
			eS	40	41.60					iS	44	12.00					PPS	47	08.00		
KHI	46.25	75	iPc	33	50.20	-0.9	BLA	63.51	298	eP	35	56.20	-0.1				SS	51	10.00		
TGI	47.09	76	eP	33	56.80	-1.0				eS	44	30.40					SSS	54	10.00		
KHE	49.22	10	Pc	34	15.00	1.5	WMQ	63.66	54	Pc	35	58.60	1.3				LQ	56	06.00		
			eS	41	12.00					iPP	38	21.10					LR	59	20.00		
NAI	49.76	131	iPc	34	21.00	2.4	CIR	63.68	148	P+	35	57.00	-0.4	LSA	72.96	66	Pc	36	56.60	0.7	
	1.0s	130.00nm			5.9mb					iPn	36	46.00					PP	39	40.60		
SAM	50.81	65	Pc	34	26.00	-0.2	UTO	63.73	304	ePc	36	00.00	2.4				S	46	25.60		
CBM	51.52	305	eP	34	31.00	-0.4	BOM	64.32	85	P-	36	01.00	-0.8	GAL	72.98	271	eP	37	00.50	4.9X	
EMM	51.67	302	eP	34	31.80	-0.7				PcP	36	28.00		GRM	73.06	158	iPc	36	50.70	-5.0X	
	1.0s	340.00nm			6.2mb					PP	38	32.50			1.5s	350.00nm			6.2mb		
TAS	51.97	62	Pc	34	35.00	0.0				PPP	40	10.00		VIS	73.35	80	P	36	54.00	-3.7X	
			iS	42	00.00					S	44	44.00					S	46	23.00		
DSH	52.48	66	Pc	34	38.90	0.0	AN3	64.38	303	eP	36	01.50	-0.4	TRD	73.40	92	P+	36	50.50	-7.5X	
			iS	42	10.40		AN12	64.47	303	eP	36	01.70	-0.8				S	46	31.00		
MIM	52.58	303	eP	34	39.00	-0.5	AN9	64.77	303	eP	36	03.40	-1.1	MDR	73.46	86	P+	36	57.90	-0.4	
GAR	53.47	65	eP	34	44.00	-2.3	AN10	64.86	303	eP	36	03.00	-2.1				S	46	32.70		
			esP	34	46.40		AN11	64.96	303	eP	36	04.60	-1.1	YAK	73.61	23	Pc	36	58.50	0.0	
			eS	42	13.60		POO	65.35	84	P+	36	07.70	-0.8				iS	46	31.00		
KBL	54.14	70	eP	34	36.00	-15.3X				PcP	36	46.00		CAL	74.71	73	P	37	11.00	5.5X	
QUE	54.26	76	iPc	34	50.40	-1.9				PP	38	28.00					PcP	37	21.00		
			eS	42	35.10					PPP	40	14.50					S	46	48.00		
ANR	54.35	62	Pc	34	52.80	0.2				S	44	56.50		FUQ	74.80	266	eP	37	06.00	-0.6	
			iS	42	38.00					ScS	46	05.50		LD3	75.27	317	eP	37	07.80	-0.6	
WES	55.04	300	eP	34	55.70	-1.8				SS	49	22.00					PP	40	01.00		
	0.8s	1480.00nm			7.1mb		SEH	65.54	78	P+	35	56.00	-13.6X	BOG	75.55	265	eP	37	10.50	-0.4	
FRU	55.24	59	eP	34	58.00	-1.1	KSR	66.27	155	iPd	36	14.00	-0.3	BOCO	75.56	265	eP	37	10.00	-1.0	
			ipP	34	59.40	5km		0.7s	26.00nm			5.5mb		SHL	75.75	69	P+	37	10.00	-1.7	
			iS	42	49.40		TIK	66.30	16	Pc	36	13.80	0.0	AGT	76.19	70	P	37	12.50	-1.4	
HNH	55.27	302	eP	35	00.00	0.8				esP	36	16.50		ILT	76.21	0	Pc	37	13.80	0.6	
NRI	55.49	25	Pc	35	00.00	-0.5				epP	36	18.00	13km				isP	37	18.50		
			iS	42	48.00		PRM	66.35	296	ePd	36	13.80	-0.9				eS	47	00.50		
HDM	56.19	300	eP	34	53.00	-12.8X	CAR	66.40	266	eP	36	15.50	0.1	IMA	76.24	350	ePc	37	13.30	-0.4	
SEM	56.49	49	Pc	35	07.50	-0.4	PRE	66.62	154	iPc	36	16.70	0.2	COL	76.37	347	eP	37	08.00	-6.3X	
NVS	56.91	43	Pc	35	09.00	-1.9		0.8s	128.00nm			6.2mb					eS	47	12.00		
			iS	43	07.00					S	45	10.60		FBA	76.37	347	ePc	37	13.10	-1.2	
TLG	56.99	58	P	35	11.00	-0.7	TKL	66.62	298	iPc	36	15.90	-0.5	TOC	77.24	66	P	37	25.00	5.2X	
			iS	43	00.00					e	04	47.80					S	47	15.00		
KSH	57.40	62	Pc	35	15.70	1.0	ORT	66.88	298	eP	36	16.80	-1.3	LZH	78.25	54	Pc	37	27.40	2.0	
			PP	37	18.70		CPO	67.93	299	iP	36	24.00	-0.8				PP	40	26.40		
PRZ	57.97	58	eP	35	19.00	0.3		2.9s	585.00nm			6.3mb		RXF	78.27	323	iPc	37	24.70	-0.5	
			eS	43	21.40					eS	44	05.10		SEY	78.53	13	ePc	37	27.00	0.8	
ELT	59.10	44	Pc	35	23.70	-2.5	CNG	68.62	150	eP	36	28.00	-0.9				iS	47	23.00		
KRI	59.12	148	P+	35	25.00	-1.9		1.2s	149.00nm			6.0mb		YKM	78.56	323	iPc	37	26.70	-0.2	
MTD	59.94	146	P+	35	32.00	-0.5				e	36	35.00	22kmX	LDM	78.64	323	iPc	37	27.50	0.3	
			iPn	36	21.00					e(PcP)	36	58.00		GLD	78.68	311	P	37	27.00	-0.7	
			iPP	37	46.00					e(PP)	39	05.00			Z 18s	99.40um			7.2Msz		
TET	60.31	144	eP	35	33.00	-1.9	VAR	69.11	73	P-	36	29.90	-2.2	GOL	78.80	311	ePc	37	27.70	-0.8	
			e(PcP)	36	23.00					PcP	36	55.00		BUT	78.87	320	ePd	37	29.00	0.3	
			e(PP)	37	46.00					PP	38	57.00		ANM	79.01	354	eP	37	30.50	1.7	
			e	40	26.00					PPP	40	35.60		MSO	79.05	321	ePc	37	29.10	-0.4	
			e	42	35.00					PPS	46	03.20			1.2s	314.00nm			6.2mb		
			e(S)	43	47.00		TOV	69.12	267	eP	36	33.30	0.9		Z 20s	240.00um			7.5Msz		
CLK	60.59	142	P+	35	37.00	0.1	YKA	69.12	333	P	36	33.60	2.0		N 20s	280.00um					
			iPn	36	26.00		IRK	69.33	40	Pc	36	32.50	-0.6		E 20s	120.00um					
SOB4	60.66	230	P	35	37.90	0.5				eS	45	41.50					e	49	15.20		
			e	35	40.80	10km	HYB	69.72	83	ePc+	36	34.00	-2.0	BDW	79.34	316	ePc	37	30.40	-1.0	
			e	35	41.80					PcP	37	00.00					e	47	44.40		
			e	35	46.70					pP	39	12.30		BTO	79.36	47	Pc	37	31.80	0.5	
			e	35	50.20					S	45	42.80					PP	40	33.80		
			ePcP	36	20.20					P'P'	05	39.00					S	47	32.80		
SOB3	60.85	230	e(P)	35	43.30	4.6X	ZAK	69.81	42	Pc	36	36.60	0.7	TTA	79.55	350	ePc	37	33.30	1.4	
BHK	61.07	71	P	35	43.00	3.0X	FVM	70.11	303	eP	36	35.80	-2.3	PMR	79.64	346	ePc	37	32.90	0.7	
			pP	35	51.20	27kmX		Z 20s	98.60um			7.1Msz		NEW	79.65	323	eP	37	32.50	-0.2	
			S	44	03.00		AVY	70.18	133	iPd	36	40.30	1.4		Z 20s	340.00um			7.7Msz		
SJG	61.61	272	iP	35	44.00	0.1	SDV	70.32	267	eP	36	40.20	0.3		N 20s	180.00um					
			ipP	35	49.00	16km		0.8s	60.00nm			5.8mb			E 20s	170.00um					
			iS	44	12.00		UAV	70.89	267	eP	36	42.90	-0.5	REX	79.90	317	iPc	37	24.70	-9.5X	
			iLQ	51	02.00			0.4s	130.00nm			6.4mb		SIT	80.16	338	eP	37	36.90	1.8	
BUL	61.68	151	P+	35	42.00	-2.4	GBA	70.90	87	Pd	36	41.60	-1.6	LUB	80.27	304	eP	37	37.00	0.7	
			iPn	36	32.00			2.3s	1060.00nm			6.6mb		SJS	80.56	275	P-	37	39.20	1.0	
TRN	61.88	262	eP	35	47.00	1.3	CER	71.21	164	iPd	36	44.00	-0.6	LCR	80.63	275	P-	37	37.80	-0.8	
	1.0s	340.00nm			6.5mb			1.2s	78.10nm			5.7mb		MGD	80.78	15	Pc	37	40.00	1.6	
AJM	61.88	77	P+	35	47.00	1.4				(S)	46	07.00					esP	37	42.00		
			pP	35	56.00	29kmX	BOK	72.03	73	P	36	49.00	-0.9				iS	47	48.00		
			S	44	08.00					pP	37	01.00	40kmX	CDU	81.59	58	Pc	37	42.50	-0.7	
MRG	62.12	300	iPc	35	47.40	0.4				PcP	37	10.00					PP	40	53.00		
			ePP	38	01.00					PP	39	26.00					S	47	55.00		
NPA	62.31	138	ePc	35	49.00	0.5	RDJ	72.34	223	Pc	36	52.00	0.5	OAQ	81.97	264	iPc	37	58.00	12.2X	

10d 12h

ANMO	82.43	308	eP	37	47.00	-0.7				eS	48	56.00		DAV	112.26	63	Pdiff	40	06.00	0.7
	2.5s	449.00nm			6.2mb		MHC	89.78	318	iPc	38	24.60	0.7	MAW	113.28	158	ePKP	44	03.00	0.9
		e	41	04.00			BAA	89.86	226	P	38	26.00	2.2	GUMO	119.64	42	e(Pdif	40	38.00	-0.1
ALQ	82.43	308	eP	37	47.20	-0.6				e	39	39.20	307kmX	GUA	119.71	42	e(Pdif	40	38.00	-0.4
Z	20s	146.00um			7.3Msz					S	49	20.00		Z	20s	26.60um			6.9Msz	
XAN	82.79	53	Pc	37	50.20	0.8				LQ	02	36.00		AAI	121.40	69	e(PKP)	44	21.00	1.8
		PP	41	00.20						LR	08	10.00		NAU	121.98	96	ePKP	44	20.00	0.0
LON	82.96	325	eP	37	50.00	-0.1	BSI	89.95	83	ePc	38	25.00	0.3	MBL	124.79	92	ePKP	44	26.00	0.5
		e	48	22.00				1.0s	34.50nm				5.5mb	SPA	126.03	180	ePKPc	44	26.70	-0.1
BJI	83.30	45	Pc	37	52.00	0.2	SAO	90.09	318	iP	38	24.80	-0.4		0.5s	29.20nm				
	2.0s	1280.00nm			6.8mb		PRI	90.12	317	iPc	38	26.60	1.2	Z	20s	68.80um			7.3Msz	
Z	17s	41.80um			6.9MszX		PAS	90.13	314	iPc+	38	25.00	-0 4	MEK	126.33	99	PKPd	44	29.60	1.1
		eS	48	05.00			Z	20s	104.00um				7.3Msz	MUN	126.76	106	ePKP	44	29.00	-0.1
ZOBO	83.80	245	P	37	54.80	-0.6	N	20s	83.00um					NWAO	127.93	106	PKPd	44	35.30	4.0X
KDC	83.85	346	eP	37	54.50	0.2	E	20s	97.00um					KNA	129.15	81	ePKP	44	34.00	0.0
LPB	83.95	245	Pd	37	55.80	-0.1				iPP	42	05.00		MTN	129.36	76	ePKP	44	34.00	-0.5
	1.0s	220.00nm			6.3mb					eSKS	48	52.00		JAY	129.66	58	e(PKP)	44	32.00	-3.2X
		S	48	20.00						eS	49	30.00		WRA	135.87	82	PKPc	44	38.10	-8.7X
KMI	84.02	63	Pc	37	57.00	0.9				ePKKP	56	03.00			1.5s	16.50nm				
		PP	41	14.00						eP'P'	04	14.00		WB2	135.88	82	PKP	44	34.10	-12.7X
PBA	84.27	80	P	37	59.00	1.9	CYA	90.15	234	P	38	25.20	-0.2				i	44	47.60	
		PP	41	18.00						S	49	52.00					i	47	25.80	
		S	48	24.00			YSS	90.17	25	Pc	38	26.40	1.1	ASP	137.38	87	ePKP	44	43.00	-6.6X
CHG	84.96	71	iPc	38	00.00	-0.6				S	49	10.00					eS	48	23.00	
	2.0s	438.00nm			6.3mb		ANT	90.21	241	iP	38	27.00	1.3	SBA	137.78	175	PKP	44	40.00	-8.7X
		eS	48	28.00						eS	49	04.00					e	44	48.00	
CHTO	84.96	71	iPc	37	59.90	-0.6	NJ2	90.35	49	Pc	38	27.10	0.7				i	44	56.00	
	2.1s	3230.00nm			7.2mb					PP	42	04.10					i	45	05.00	
		e	38	05.60	18km					S	49	20.10					PP	47	35.00	
		e	38	22.00			SMY	91.20	4	eP	38	32.00	2.1				i	47	52.00	
EUR	85.13	316	iP	38	02.30	0.8	VCA	91.94	235	Pc	38	37.00	3.3X				PKS	48	31.00	
	0.8s	44.20nm			5.7mb		ADK	92.26	359	eP	38	36.50	1.7				PPP	50	03.00	
BMN	85.16	318	eP	38	01.60	0.1	SSE	92.43	48	eP	38	36.00	0.0				SKKKS	54	49.00	
COR	85.27	324	iPc	37	05.00	-56.7X	Z	20s	13.60um				6.4Msz				PcPP'	57	08.00	
CN2	85.54	37	Pc	38	03.00	-0.1	N	22s	78.00um								SKKS	06	00.00	
		PP	41	24.00			E	22s	192.00um								e	21	00.00	
BDT	85.93	72	iPc	38	05.30	-0.1				PP	42	17.00		RAB	138.30	47	ePKP	44	41.00	-10.5X
	0.8s	103.00nm			6.1mb					SKS	49	08.00		Z	18s	28.20um			7.0Msz	
GYA	86.00	60	Pc	38	06.60	0.8				ScS	49	40.00		PMG	139.04	58	ePKPc	44	45.00	-7.8X
ARE	86.41	247	eP	38	08.00	0.0	GZH	92.81	59	P	38	39.20	1.4	LMG	139.36	56	ePKP	44	33.00	-20.6X
TIA	86.44	47	Pc	38	08.00	0.3				PP	42	21.20		ISQ	140.43	79	ePKP	44	49.00	-6.2X
		PP	41	33.00			SAP	93.07	28	eP	38	40.00	1.3	DRV	141.37	155	PKP	44	48.50	-6.9X
		S	48	43.00			SNG	93.19	79	iPc	38	40.00	0.4	RUV	145.17	299	iPKP	45	05.10	1.7
IIT	86.47	291	iP	38	10.00	1.6		1.8s	14.00nm				5.1mb X		1.2s	2140.00nm				
IIP	86.73	291	iP	38	12.00	2.2				eS	50	26.50		TPT	145.20	299	iPKP	45	05.40	1.9
IIC	86.74	292	iP	38	11.00	1.2	KUR	93.45	23	Pc	38	40.00	-0.4		1.2s	4000.00nm				
TUC	86.88	308	eP	38	11.00	1.0				eS	49	49.00		CTA	145.33	72	iPKP	45	02.20	-1.4
TAC	86 91	292	eP	38	15.00	4.5X	TSI	93.73	83	ePd	38	43.00	0.8				iPP	48	26.00	
IIM	86.94	292	iP	38	12.00	1.3	CFA	93.82	233	Pc	38	43.00	0.8				iSKP	48	35.00	
MNV	87.08	317	iP	38	11.30	0.3				PP	42	30.00					iPPP	51	38.00	
SDN	87.50	350	eP	38	13.80	1.4				PPP	44	40.00					iSS	07	21.00	
MIN	87.56	320	iPc	38	13.00	-0.2				sS	49	20.00		VAH	145.38	299	iPKP	45	05.60	1.8
NNA	87.71	253	iPc	38	16.00	1.9	HKC	93.90	59	P	38	44.00	1.1		1.2s	2920.00nm				
	1.1s	228.00nm			6.4mb					pP	42	26.00		PMO	145.41	300	iPKP	45	06.10	2.3X
Z	20s	34.00um			6.8Msz					PPP	44	36.00			1.2s	3530.00nm				
		e	41	25.00						S	49	48.00		ADE	145.47	101	PKPd	45	04.20	0.7
		eS	48	46.00			KMU	94.39	28	eP	38	43.20	-1.6	HNR	146.97	41	ePKP	45	10.00	3.5X
III	87.73	291	iP	38	14.00	-0.4	PSI	94.50	83	ePc	38	46.00	0.3	PPN	148.19	298	iPKP	45	14.00	5.7X
WDC	87.86	321	iPc	38	13.70	-0.8		1.1s	83.20nm				6.1mb		1.2s	213.00nm				
LM2	87.94	254	eP	38	15.80	0.7	TLL	94.59	236	P	38	47.50	1.5	TVO	148.23	297	iPKP	45	14.60	6.1X
PT02	87.98	252	eP	38	17.70	2.4	IPM	95.06	81	ePd	38	48.80	0.5		1.2s	244.00nm				
ORV	88.08	319	iPc	38	15.00	-0.6	QZH	95.10	54	P	38	48.50	0.2	PPT	148.32	298	iPKP	45	14.50	6.0X
FHC	88.43	322	iP	38	17.50	0.2				PP	42	39.90			1.2s	438.00nm				
WHN	88.55	53	Pc	38	18.20	0.3	SHK	96.23	39	ePc	38	51.60	-1.8	PAE	148.39	298	ePKP	45	14.00	5.4X
		PP	41	49.00			MIZ	96.33	30	iPd	38	56.20	2.5		1.2s	356.00nm				
JAS	88.69	318	iPc	38	19.20	0.7				S	51	44.00		AFR	148.45	298	ePKP	45	14.00	5.3X
BGV	88.89	64	Pd	38	20.60	0.9	PEL	96.39	233	eP	38	55.00	1.0		1.2s	306.00nm				
		e	39	06.00	182kmX		SAN	96.57	233	eP	38	56.00	1.3	TOO	151.36	104	ePKP	45	15.00	2.3X
		e	41	21.00			NHA	96.79	70	P	39	01.00	4.8X				iS	57	05.60	
GLA	88.90	311	eP	38	19.20	-0.5				eS	42	43.00		TAU	153.02	115	ePKP	45	15.00	0.2
		PP	41	51.20			ANP	96.82	52	Pc	38	58.00	1.7				ePP	49	12.00	
PET	88.96	14	eP	38	18.00	-1.5				S	50	28.00					e	57	09.00	
		eS	48	56.00			MAT	97.25	34	ePc	39	00.00	2.0				e	58	50.00	
FRI	88.97	317	iPc	38	20.30	0.4		2.5s	556.00nm				6.7mb				e	02	04.00	
TPL	89.04	242	P	38	22.00	1.8				eS	50	16.00					eSS	08	40.00	
VLA	89.08	34	eP	38	18.00	-2.2	LNV	97.37	233	P	38	57.50	-0.7				e	09	40.00	
BKS	89.70	319	ePc	38	25.10	1.8	ABU	97.40	36	ePc	39	06.00	7.3X				eSSS	14	30.00	
	1.6s	410.00nm			6.4mb		PPI	97.54	85	e(P)	39	11.80	12.3X	YOU	153.04	96	PKP	45	17.00	1.8
Z	20s	246.00um			7.6Msz		DDR	98.14	33	eP	39	01.60	-0.5				e	45	23.00	
N	20s	266.00um								PP	43	03.00					e	48	15.20	
E	20s	184.00um					TSK	98.37	33	eP	39	01.40	-1.6	CAN	153.76	98	PKP	45	16.20	0.0
		ePP	42	00.00						PP	43	02.70					e	45	24.50	
		eS	49	04.00			HEN	98.56	55	eP	39	07.00	2.9X				e	49	20.50	
ARN	89.71	318	ePc	38	24.70	1.3	BAG	102.32	59	Pdiffc	39	20.00	-1.2	WAM	153.83	100	PKP	45	19.10	2.9X
		PP	41	57.40						e	42	38.00					e	45	25.80	
LPA	89.77	225	ePc	38	25.00	1.6	SNA	106.26	181	e(Pdif	39	53.00	15.7X				e	49	11.50	
Z	20s	70.90um			7.1Msz		NVL	106.94	176	ePdiff	39	47.00	6.7X	RIV	155.17	93	ePKP	45	46.00	28.0X

10d 12h

AFI	156.96 343	PKP	45 23.00	2.0	
		PP	49 24.00		
		PPP	53 00.00		
		PKKP	53 25.00		
		e	56 32.00		
		SKSP	59 48.00		
		e	02 59.00		
		SS	09 16.00		
		SSP	10 00.00		
		SSS	15 08.00		
		LQ	29 00.00		
		LR	38 00.00		
RAR	157.79 307	iPKP	45 29.50	7.7X	
		e	46 05.00		
		PP	49 39.00		
		SSP	10 28.00		
PVC	158.26 36	PKPc	45 58.50	36.1X	
KOU	158.38 48	PKPc	45 22.70	0.2	
NOU	161.01 47	PKPc	45 25.80	0.6	
NUE	161.30 334	ePKP	46 17.00	51.4X	
MSZ	166.72 134	ePKP	45 31.00	1.2	
		e	45 35.00		
		PP	51 31.00		
RHP	168.31 136	ePKP	45 32.00	0.9	
		e	46 44.00		
		PP	50 33.00		
WEL	172.76 136	iPKP	45 34.50	1.3	
		e	46 54.00		
		e	47 03.00		
		PKS	49 38.00		
		PP	50 52.00		
		PPP	55 19.00		
		SKKS	57 40.00		
		SKKS	00 10.00		
		SKSP	01 15.00		
MNG	173.61 135	iPKP	45 35.40	1.7	
		e	47 03.00		
		PP	51 03.00		
		PcPP'	54 08.00		
KRP	175.01 112	ePKP	45 40.00	5.9X	
		e	47 11.00		
		PP	51 05.00		
		e	51 39.00		
		PcPP'	54 23.00		
GNZ	176.38 133	PKP	45 37.00	2.6X	
		e	47 12.00		
		PP	51 11.00		

S.D = 1.2 on 430 of 514 obs.

OCT 24, 1980 14h 53m 34.65± 0.28s
18.225 N ± 1.6km 98.195 W ± 1.5km
DEPTH = 66.6 ± 2.4 km
6.5mb (70 obs.)

CENTRAL MEXICO (523)

At least 300 people reported killed, many injured, approximately 150,000 homeless and extensive domage (IX) in central Mexico, mainly in the Huajuapon de Leon orea. Felt throughout central and southern Mexico and in Guatemalo.

IIT	0.80 352	iP	53 52.70	1.7	
III	1.22 277	iP	53 54.80	-1.5	
IIP	1.31 329	iP	53 59.50	1.9	
IIM	1.44 320	iP	54 00.00	0.6	
MEX	1.44 320	iP	54 00.90	1.5	
TAC	1.51 321	iP	54 02.00	1.7	
CRX	1.83 310	eP	54 06.20	1.4	
		ePP	54 23.70		
IIC	1.83 327	iP	54 06.10	1.3	
COM	6.12 108	iP	55 00.00	-4.8X	
JCT	12.29 353	iP	56 29.50	0.7	
	Z 20s 60.30um				
CMTX	14.91 351	eP	57 04.20	1.0	
EPT	15.44 332	P	57 10.00	0.0	
SRA	15.59 119	P+	57 12.70	0.7	
LUB	15.64 349	eP	57 13.00	0.4	
SJS	15.99 119	P-	57 18.10	1.0	
LCR	16.14 120	P+	57 18.40	-0.6	
SVM	17.10 330	iPc	57 32.60	1.6	
SIO	17.53 5	iPd	57 36.80	0.7	
		i	57 52.10		
TUL	17.74 6	iPd-	57 38.80	0.1	
	Z 20s 276.00um				
		i	57 40.80		
		eS	01 00.00		
TUC	18.04 323	iPd	57 43 50	1.1	
RLO	18.09 8	iPd	57 32.30	-10.7X	
WLA	18.15 20	eP	57 43.40	-0.3	
ALQ	18.20 338	iPd	57 45.20	0.7	
MPH	18.36 22	eP	57 45.30	-1.0	
MET	18.37 22	iPc	57 45.50	-0.8	
GAI	18.40 49	P	57 45.00	-1.7	
EBZ	18.59 23	eP	57 47.40	-1.6	
POW	18.90 18	eP	57 50.20	-2.5	
GRT	19.57 22	iP	57 59.00	-0.9	
LST	19.70 21	eP	57 59.70	-1.6	
MSA	19.80 341	iPd	58 03.10	0.3	
BBJ	19.87 86	eP	58 03.20	-0.1	
DON	20.23 19	ePd	58 05.10	-1.7	
STH	20.32 87	eP	58 07.70	-0.2	
HOJ	20.38 87	eP	58 08.10	-0.4	
GWJ	20.39 87	eP	58 08.10	-0.6	
ELC	20.56 21	eP	58 08.60	-1.6	
FVM	20.83 17	iP	58 10.50	-2.4	
	Z 20s 135.00um			6.3Msz	
GLA	21.00 318	iP	58 14.20	-0.6	
PRM	21.20 39	iPd	58 16.40	-0.3	
TYS	21 29 17	eP	58 17.30	-0.3	
ORT	21.48 32	eP	58 19.30	-0.2	
TKL	21.56 33	iPd	58 19.20	-1.1	
		ipP	58 44.20	125kmX	
		eS	02 18.00		
HBF	21.69 44	eP	58 20.10	-1.5	
JSC	22.00 40	eP	58 24.60	-0.1	
GCA	22.09 330	iPd	58 27.20	1.5	
GOL	22.28 345	iP	58 28.10	0.3	
	Z 20s 60.00um			6.0Msz	
GLD	22.30 346	P	58 28.10	0.3	
	Z 20s 110.00um			6.3Msz	
LHS	22.41 40	iPc	58 24.60	-4.1X	
GAL	23.38 105	iP	58 40.50	2.2	
SDW	23.43 318	iPd	58 39.80	1.0	
SCI	23.45 313	iP	58 39.80	1.0	
MSU	23.61 332	eP	58 41.20	0.6	
PAS	23.86 316	P	58 43.00	0.1	
		pP	59 06.00	108kmX	
		PcP	02 26.00		
		S	02 58.00		
		ScP	05 48.00		
PRN	24.16 326	iPd	58 46.80	0.9	
PUV	24.17 36	eP	58 46.10	0.2	
PWV	24.27 35	iPc	58 47.30	0.5	
NAV	24.39 35	iPd	58 48.00	0.0	
BLA	24.52 36	ePd	58 48.90	-0.4	
	0.9s 0.64nm			3.1mb X	
BAV	24.53 36	eP	58 49.40	0.1	
GLR	24.54 324	iPd	58 50.40	0.8	
HWV	24.57 35	iPd	58 49.60	-0.1	
AN8	25.01 26	eP	58 53.50	-0.3	
AN11	25.12 25	eP	58 53.30	-1.5	
AN10	25.13 25	eP	58 54.70	-0.2	
AN4	25.15 26	eP	58 54.40	-0.8	
DUG	25.27 333	iPd	58 56.60	0.2	
AN9	25.32 25	eP	58 55.40	-1.3	
AN3	25.46 26	eP	58 58.40	0.4	
BV3	25.62 35	eP	58 59.80	0.2	
CHN	25.70 118	iP	59 02.00	1.4	
FRV	25.71 39	iP	58 59.70	-0.6	
TNP	25.84 324	iPd	59 02.00	0.2	
PBV	26.06 40	iPc	59 03.50	-0.1	
CVL	26.17 37	eP	59 03.90	-0.7	
EUR	26.19 328	iP	59 05.20	0.1	
GHV	26.25 38	eP	59 04.30	-1.0	
BDW	26.31 341	iPd	59 05.60	-0.5	
PHGM	26.41 316	eP	59 06.60	-0.3	
BEI	26.48 337	eP	59 06.80	-0.9	
UTO	26.49 25	iPd	59 07.50	0.0	
ACM	26.51 21	eP	59 05.90	-1.7	
NA12	26.51 38	eP	59 06.50	-1.2	
MRG	26.54 33	iP	59 09.10	1.1	
PSO	26.58 127	eP	59 09.00	0.0	
FRI	26.59 319	iPd	59 07.20	-1.3	
		ScP	06 40 00		
		e	31 54.00		
MNV	26.61 323	ePd	59 09.50	0.7	
NA11	26.63 38	eP	59 08.10	-0.6	
OAQ	26.66 131	iPd-	59 11.20	1.5	
NA2	26.69 38	iP	59 09.10	-0.2	
PRI	26.69 316	iPd	59 09 20	-0.3	
		pP	59 36 00	126kmX	
		PcP	02 34.00		
		e	31 41.00		
CNV	26.96 38	eP	59 11.80	0.0	
AAM	27.00 24	eP	59 10.80	-1.3	
FUQ	27.04 115	eP	59 16.00	2.9X	
BOG	27.19 117	iP	59 17.50	3.0X	
CLE	27.22 28	iPd	59 12.00	-2.2	
		S	03 40.00		
BOCO	27.23 117	iPd	59 17.00	2.1	
	3.0s 7690.00nm			6.8mb	
BMN	27.54 327	iPd	59 17.20	-0.1	
SAO	27.56 317	iP	59 15.90	-1.4	
JAS	27.64 320	iPd	59 17.50	-0.6	
		pP	59 41.00	107kmX	
		PcP	02 35.00		
		ScP	06 43.00		
		ScS	09 00.00		
		e	31 48.00		
UAV	27.96 106	eP	59 22.50	1.2	
	1.4s 667.00nm			6.1mb	
ARN	27.96 318	iP	59 20.70	-0.3	
MHC	28.03 318	iPd	59 21.30	-0.4	
		pP	59 42.00	92kmX	
WCN	28.13 323	ePd	59 22.80	0.2	
SDV	28.32 105	eP	59 24.80	0.3	
	0.5s 24.60nm			5.1mb X	
YMC	28.55 341	eP	59 26.40	0.0	
BKS	28.72 318	ePd	59 27.70	-0.1	
	1.8s 1980.00nm			6.4mb	
	Z 20s 160.00um			6.6Msz	
	N 20s 200.00um				
	E 20s 260.00um				
		epP	59 52.00	111kmX	
		eS	04 44.00		
TOV	28.77 103	eP	59 28.50	0.0	
LD3	29.06 348	iPc	59 29.10	-1.7	
NWRM	29.48 318	eP	59 35.70	1.1	
MIN	29.88 322	iPd	59 37.50	-0.8	
BUT	30.16 340	iPd-	59 40.50	-0.3	
		e(pP)	00 02.00	95kmX	
SJG	30.43 85	iP	59 44.00	0.8	
GPD	30.50 37	eP	59 42.10	-1.5	
WDC	30.57 322	iPd	59 41.40	-2.8	
		PcP	02 42.00		
		pPcP	03 07.00		
		ScP	06 53.00		
		e	31 41.00		
CAR	31.21 100	iPc	59 50.00	-0.2	
	2.0s 3060.00nm			6.7mb	
FHC	31.57 321	iPd	59 53.20	0.2	
		pP	00 16.00	101kmX	
HDM	31.92 38	eP	59 55.00	-1.0	
VWMM	31.94 327	eP	59 56.00	-0.4	
IVT	32.95 35	eP	00 04.00	-0.9	
WES	33.18 38	eP	00 06.10	-0.8	
LDM	33.21 339	iPd	00 06.70	-0.5	
VTDM	33.34 330	eP	00 07.20	-1.1	
HNH	33.48 35	eP	00 08.80	-0.7	
RXF	33.50 340	iPd	00 09.40	-0.4	
PNY	33.58 32	eP	00 09.40	-1.0	
NEW	33.69 337	iPd	00 09.80	-1.6	
YKM	33.70 339	iPd	00 11.20	-0.3	
LON	34.46 331	iPd	00 18.00	0.0	
	1.0s 243.00nm			6.1mb	
BNH	34.62 35	eP	00 19.60	0.2	
	1.2s 121.00nm			5.7mb	
PNT	35.50 336	ePd	00 26.00	-0.8	
HKM	35.55 36	eP	00 26.50	-0.7	
JKM	35.86 34	eP	00 29.00	-0.9	
BPM	36.02 37	P	00 30.90	-0.2	
MIM	36.25 36	iP	00 32.00	-1.1	
TRN	36.36 97	eP	00 32.10	-2.3	
	1.6s 1560.00nm			6.7mb	
FFC	36.55 356	iPd	00 33.80	-1.7	
PGC	36.61 332	ePd	00 35.40	-0.6	
LM2	36.63 144	eP	00 40.50	3.9X	
		PP	00 01.00		
NNA	36.68 143	P+	00 36.00	-1.0	
		eS	05 18.00		
EMM	36.82 37	eP	00 38.10	0.2	
EDM	36.87 345	iPd	00 37.40	-0.9	
D4A	37.37 33	eP	00 41.90	-0.6	
HUA	37.60 141	iPd	00 46.20	1.0	
PT02	37.68 144	eP	00 45.00	-0.5	
CBM	37.81 34	iPc	00 45.90	-0.3	
PT03	38.89 144	eP	00 55.50	-0.1	
PT04	39.55 144	eP	01 00.60	-0.4	
PHC	39.89 331	eP	01 03.50	0.1	

24d 15h

	1.6s	193.00nm		5.7mb				PP	06 40.00			LPF	81.32	42	iP	05 45.70	0.5
FCC	40.59	3	ePd	01 07.70	-1.4			PcS	09 01.60				1.2s	765.00nm			6.5mb
ARE	43.35	141	eP	01 28.00	-4.5X			S	12 46.00			GRR	81.33	42	iP	05 45.80	0.6
	1.5s	778.00nm		6.3mb				ScS	13 58.80				1.4s	1100.00nm			6.6mb
SCH	43.70	26	ePd	01 32.90	-1.7			SS	16 54.80			FLN	81.45	42	iP	05 46.60	0.7
ZOBO	45.29	137	P	01 45.20	-3.3X			LQ	20 06.80				1.4s	953.00nm			6.5mb
LPB	45.51	138	Pd	01 49.00	-0.9			LR	23 49.60			TOL	81.62	51	iPd	05 47.00	0.0
			S	08 20.00		LPA	65.23	144	iPd	04 10.80	-0.5		1.5s	25.00nm			4.9mb X
YKC	45.64	350	iPd	01 48.10	-1.9	Z	20s	109.00um			7.0Msz				iPP	09 12.00	
	0.6s	350.00nm		6.4mb					ipP	04 27.60	62kmX				iS	15 52.00	
YKA	45.68	349	P	01 50.20	-0.1				iS	12 49.20		SSC	81.74	42	iP	05 48.20	0.8
STJ	47.14	41	eP	02 01.90	-0.1	PDA	65.44	56	P	04 09.00	-3.8X		1.4s	735.00nm			6.4mb
	1.1s	158.00nm		5.9mb		ALE	65.82	5	iPd	04 12.50	-2.0	TRO	81.98	18	iPd	05 49.40	1.2
SIT	47.59	333	e(P)	02 07.00	1.6		1.0s	355.00nm			6.3mb	LGR	81.99	48	iPc	05 50.80	1.9
TPL	48.54	144	P	02 21.00	7.9X	RDJ	67.49	125	Pd	04 24.00	-2.0		1.4s	1.38nm			3.7mb X
ANT	49.72	146	iP	02 21.00	-1.2				iPP	06 02.40					iPcP	05 57.00	
FRB	49.77	17	ePd	02 21.00	-1.1				iPPP	08 48.00					iPP	08 59.80	
HON	50.55	334	iP	02 28.90	0.8				iS	13 15.20					iS	16 07.90	
INK	54.75	345	eP	02 59.00	-0.3				isSS	18 27.60		MAL	82.26	54	iPd	05 52.00	1.7
	0.6s	385.00nm		6.6mb		REY	67.78	27	eP	04 26.40	-0.7				iPP	09 03.00	
TLL	54.87	151	Pd	03 03.20	2.3				i	04 29.00					iS	15 37.00	
VCA	54.96	148	P	03 01.80	0.3	ADK	68.81	319	eP	04 32.00	-1.8	MFF	82.33	44	iP	05 51.00	0.5
KDC	55.96	328	eP	03 06.90	-1.2	AKU	69.47	26	iPd-	04 38.00	0.5		1.4s	473.00nm			6.3mb
PMR	55.98	333	eP	03 07.50	-0.7		1.5s	7500.00nm			7.4mb	SEY	82.43	334	Pd	05 50.90	0.2
Z	24s	12.00um		5.9MszX		ILT	69.69	337	Pd	04 38.80	-0.1				epP	06 11.00	74kmX
CYA	55.99	145	Pd	03 07.30	-1.4				esP	05 09.00					isP	06 14.80	
KIP	56.08	284	eP	03 09.50	0.0				iS	13 47.20					eS	16 05.60	
			eS	11 02.00		DAG	69.96	14	iPd	04 38.60	-1.8	CRT	82.75	53	iP	05 54.00	1.0
HON	56.09	284	P	03 12.00	2.4		0.7s	73.00nm			5.7mb				i	07 24.00	
RES	56.51	1	eP	03 05.00	-6.8X				i	07 37.00					i	10 11.00	
	1.2s	520.00nm		6.5mb					i	09 19.00					e	11 21.00	
COL	57.05	337	iPd	03 14.50	-1.4	RAR	71.92	240	eP	04 53.00	-0.1				e	16 19.00	
FBA	57.05	337	eP	03 13.90	-2.0				e	05 05.00		KON	83.09	29	iP	05 55.60	1.5
CFA	57.28	150	Pc	03 16.00	-1.9				PcP	05 10.00		KONO	83.09	29	iPd	05 55.50	1.4
			S	11 12.00					S	14 10.00			1.0s	1000.00nm			6.7mb
PEL	57.45	153	Pd	03 17.10	-1.9				PS	15 14.00					i	06 21.00	
LNV	57.83	154	eP	03 19.00	-2.6				i	15 44.00		NB2	83.23	28	P	05 44.40	-10.5X
GDH	57.90	17	iPd-	03 20.00	-1.7				e	18 20.00			1.4s	47.30nm			
	1.0s	280.00nm		6.3mb					LR	26 20.00		PET	83.28	324	Pd	05 56.00	0.8
			i	05 56.00		SMY	74.34	321	eP	05 06.10	-0.6				epP	06 12.00	56kmX
			iS	11 15.00		VAL	74.62	40	iPd-	05 08.00	-0.4				esP	06 21.00	
MDZ	58.05	151	iP	03 21.30	-2.0				PP	08 16.00					iS	16 16.00	
			i(S)	03 39.40					PPP	09 37.00		JAU	83.31	47	eP	06 57.70	61.8X
RUV	58.75	239	iP	03 26.20	-2.1				S	14 36.00		KIR	83.40	20	Pd	05 56.10	0.4
	1.0s	1080.00nm		6.9mb					ScS	15 10.00					i	08 11.90	
TPT	58.83	239	iP	03 27.20	-1.7				SS	19 36.00					iPP	09 06.80	
	1.0s	1080.00nm		6.9mb					LQ	23 40.00					iS	16 19.60	
TCA	58.90	146	Pd	03 27.10	-2.2				LR	27 36.00		LFF	83.45	45	iP	05 56.50	0.2
VAH	58.97	239	iP	03 28.00	-1.9	TEN	74.66	65	P	05 10.00	1.0		1.2s	563.00nm			6.4mb
	1.0s	864.00nm		6.8mb					S	15 02.10		LSF	83.54	43	iP	05 56.90	0.1
PMO	59.07	239	iP	03 29.00	-1.5	KBS	76.01	11	iPd	05 16.50	0.6		1.4s	502.00nm			6.3mb
	1.0s	1080.00nm		6.9mb		DCN	76.13	38	iPd	05 16.60	-0.3	ALM	83.72	53	ePd	05 58.60	0.8
MBC	59.07	354	iPd	03 27.90	-1.9		1.7s	3350.00nm			7.0mb		2.2s	33.20nm			5.0mb X
	1.0s	594.00nm		6.7mb		DMU	76.23	38	iPd	05 17.30	-0.2				eS	16 15.70	
TTA	59.47	333	ePd	03 31.00	-1.9		1.3s	2940.00nm			7.1mb	UCC	83.73	39	Pc+	05 58.90	1.3
SDN	59.50	324	eP	03 32.30	-0.7	DLE	76.58	38	iPd	05 19.30	-0.1				S	16 20.50	
IMA	59.77	337	eP	03 32.50	-2.4		1.7s	2340.00nm			6.9mb				e	16 57.00	
BAO	59.81	121	eP	03 34.90	-0.9	DDK	76.67	38	iPd	05 20.00	0.0				e	21 30.00	
TMU	61.53	157	P	03 45.00	-2.0		1.7s	3120.00nm			7.0mb	DBN	83.74	37	iPd	05 59.00	1.4
TVO	61.65	237	iP	03 46.30	-1.9	DKM	76.75	38	eP	05 19.80	-0.6	EPF	83.80	47	iP	05 58.80	0.6
	0.8s	189.00nm		6.3mb			1.7s	3120.00nm			7.0mb		1.2s	765.00nm			6.6mb
PPN	61.66	238	iP	03 47.60	-0.6	ECP	76.92	39	iPd	05 21.70	0.4	LPO	83.84	45	iP	05 58.60	0.3
	0.8s	194.00nm		6.3mb			1.5s	3480.00nm			7.1mb		1.2s	234.00nm			6.1mb
PPT	61.79	238	iP	03 49.10	-0.1	STS	77.58	49	iPd	05 24.50	-0.7	RJF	83.85	44	iP	05 58.50	0.1
	0.8s	135.00nm		6.1mb		PTO	77.95	51	Pd	05 27.50	0.3		1.4s	530.00nm			6.4mb
PAE	61.85	238	iP	03 49.80	0.3				iPP	08 26.00		TCF	83.98	43	iP	05 59.30	0.3
	0.8s	140.00nm		6.1mb					iPPP	10 16.00			1.6s	806.00nm			6.5mb
AFR	61.94	238	iP	03 51.40	1.3				iS	15 14.00		DOU	84.13	39	Pd-	06 00.40	0.8
	0.8s	200.00nm		6.3mb					iSS	20 20.00					sP	06 25.90	
SOB4	62.31	111	P	03 49.00	-3.7X				iSSS	23 38.00					S	16 22.00	
			e	03 54.90		EKA	78.03	36	Pd	05 29.10	1.7				SS	21 52.00	
			e	04 28.00			1.3s	875.00nm			6.6mb	KEV	84.22	17	iP	06 00.00	0.3
SOB	62.56	111	P	03 54.10	-0.2	LIS	78.11	53	Pd	05 28.90	0.7		1.4s	1470.00nm			6.8mb
			e	04 01.60					ipP	05 51.60	86kmX				ipP	06 22.20	82kmX
			e	04 09.20					PP	09 04.00					ePP	09 16.00	
			epP	04 14.00	77kmX				S	15 22.00					epPP	09 40.00	
			esP	04 21.90		AFI	79.25	251	iP	05 32.30	-2.5				e	13 08.00	
			e	04 28.10					PP	08 16.00					eS	16 06.00	
SOB3	62.69	112	P	03 52.70	-2.5				S	15 27.00		MZF	84.25	43	eP	06 00.50	0.2
			e	03 55.60					SS	20 27.00			1.6s	1240.00nm			6.7mb
			e	03 57.90					SSS	24 00.00		WIT	84.32	36	ePd	06 02.50	2.1
			e	04 02.80					LQ	26 36.00		MLS	84.34	47	e(P)	05 53.20	-7.7X
			e	04 08.50					LR	29 42.00		CAF	84.35	45	iP	06 01.20	0.3
ANM	63.92	334	eP	04 02.00	-0.6	KHE	80.57	4	Pd	05 41.50	0.8	MGD	84.36	332	ePd	06 01.00	0.5
NKI	64.03	321	eP	04 01.40	-2.0				isP	06 08 00					epP	06 20.00	69kmX
BAA	64.69	144	P	04 04.80	-3.0X				eS	15 44.50					isP	06 27.00	
			PcP	04 18.80		BER	80.83	29	iP	05 44 00	1.7				eS	16 20.00	

24d 15h

AVF	84.54	43	iP	06	01.60	-0.1	BUB	87.48	40	P	06	15.80	-0.5				(SKS)	16	42.00										
	1.3s	449.00nm			6.4mb		LRG	87.76	45	eP	06	19.60	2.0				S	17	18.00										
SSF	84.54	42	iP	06	02.00	0.2		2.0s	516.00nm			6.3mb					PPS	19	00.00										
	1.4s	839.00nm			6.6mb		PNI	87.81	43	P	06	18.00	0.1	PRU	89.98	37	iPd	06	28.20	0.2								
EBR	84.64	49	eP	06	04.00	1.7	LMR	87.91	45	eP	06	20.20	1.9		2.5s	1050.00nm			6.7mb										
			eS	16	30.00			2.0s	356.00nm			6.2mb			Z 19s	36.10um			6.8Msz										
HEE	84.66	38	iPd	06	03.70	1.5	ORO	87.96	42	P	06	20.00	1.3		N 19s	15.20um													
PYM	84.68	44	P	06	02.90	0.3				eS	17	27.00			E 19s	31.80um													
LOR	84.70	42	iP	06	03.00	0.4	KJF	87.96	21	Pd	06	18.20	0.0				pP	06	52.50	90kmX									
	1.4s	1100.00nm			6.7mb					ipP	06	39.60	78kmX				S	17	08.00										
WTS	84.71	37	iPd	06	03.80	1.4				ePP	09	44.00		BHG	90.08	39	eP	06	29.30	0.7									
			i	06	22.70					epPP	10	04.00		CTI	90.09	41	P	06	28.50	-0.3									
			i	06	27.80					ePPP	11	52.00					i	06	59.00										
			ePP	09	22.00					eSKS	16	40.00					e	09	53.50										
ALI	84.73	51	iPc	06	04.50	1.7				eS	17	00.00					eS	17	24.50										
HFS	84.73	28	iP	06	02.50	0.1	MOX	88.02	37	ePc	06	19.00	0.3	KMR	90.67	38	iPd	06	31.90	0.6									
	1.5s	1350.00nm			6.8mb			1.4s	430.00nm			6.4mb					pP	06	56.00	89kmX									
	Z 24s	9.50um			6.1MszX			Z 24s	58.50um			6.9MszX					i	09	39.00										
MEM	84.78	38	Pd	06	04.50	1.7		E 28s	81.30um								PP	10	02.00										
			ScS	16	36.60					ipP	06	43.00	89kmX				e	45	12.00										
TIK	84.86	347	Pd	06	02.70	-0.2	STV	88.09	44	P	06	19.00	-0.3	PRT	90.71	43	P	06	33.50	2.0									
			epP	06	26.50	89kmX	BRN	88.09	35	iPd	06	20.20	1.2				ipP	06	58.00	91kmX									
			esP	06	30.00					i	10	15.20					iPP	09	12.00										
			eS	16	21.50		GRF	88.21	38	iPd	06	20.40	0.7				iS	17	35.50										
LBF	84.87	42	iP	06	03.60	0.1		3.7s	8090.00nm			7.3mb X		MOA	90.85	39	ePd	06	32.00	-0.1									
	1.4s	836.00nm			6.6mb			Z 19s	41.40um			6.9Msz					i	06	34.00										
SMF	84.91	43	iP	06	03.60	0.0				e	06	45.00					i	07	02.00										
	1.5s	530.00nm			6.4mb					ePP	09	48.00					e	15	09.00										
WLF	85.22	39	ePd	06	08.00	2.9X				eS	17	06.00					S	17	19.00										
			sP	06	31.00		HOF	88.31	37	iPd	06	20.40	0.2				SP	18	30.00										
			PP	09	31.00			1.4s	560.00nm			6.6mb		FIR	90.86	43	P	06	33.00	0.8									
			pPP	09	53.00			Z 21s	63.00um			7.0Msz					iS	17	28.00										
			ScS	16	36.00					i	06	44.50		KIC	91.30	83	iP	06	34.50	-0.2									
			PPS	17	58.00					i	17	08.00					S	17	34.50										
			SS	21	56.00		SUF	88.35	22	iP	06	20.30	0.2	YAK	91.51	340	Pd	06	36.10	1.2									
BNS	85.33	38	iPd	06	06.00	0.4	ROB	88.43	44	P	06	21.00	0.1				S	17	33.40										
	9.0s	22.50nm			4.2mb X		CLL	88.49	36	iPd	06	21.30	0.3	TRI	91.56	41	iPd	06	35.30	-0.1									
			e	16	06.80					i	06	23.00					ePP	10	14.00										
UME	85.54	23	Pd	06	06.00	-0.4				i	06	28.00					i	16	44.00										
			i	06	31.40					sP	06	46.00					e	17	12.80										
			iS	16	38.70					e	07	34.00					iS	17	36.00										
SOD	85.61	19	P	06	06.30	-0.4				PP	09	48.00		PUL	91.80	23	Pd	06	36.00	-0.2									
			ipP	06	30.00	88kmX				e	13	50.00					isP	07	00.00										
			ePP	09	25.00					S	17	06.00					eS	17	26.00										
			eS	16	38.00					sS	17	40.00		VKA	91.85	37	iPd	06	37.20	0.5									
SKR	85.64	322	Pd	06	06.00	-1.1				PS	18	36.00					pP	07	02.00	92kmX									
			epP	06	28.40	83kmX				RRPKP	52	58.00					sP	07	16.00										
			isP	06	32.80		FUR	88.92	39	iPd	06	24.00	0.8				PP	10	17.00										
			eS	16	39.00					iS	17	13.00					pPP	10	38.00										
SSB	85.86	44	ePd	06	08.90	0.5	VG1	88.96	43	P	06	25.40	2.1				S	17	37.00										
HAU	85.98	41	iP	06	09.10	0.1	NUR	89.14	25	Pd	06	24.20	0.3				RRPKP	52	46.00										
	1.2s	572.00nm			6.5mb					ipP	06	44.70	74kmX	PRO	91.86	42	P-	06	40.00	3.2X									
COP	86.18	32	iPd	06	10.00	0.3				ePP	09	58.00		LJU	91.88	40	eP	06	37.00	0.1									
	1 0s	240.00nm			6.3mb					epPP	10	20.00					i	06	38.90										
			ipP	06	33.00	85kmX				eSKS	17	00.00					ePP	09	56.50										
			ipPP	10	00.00					eS	17	16.00					eSKS	17	12.00										
			iSKS	16	22.00		BRG	89.22	36	iPd	06	24.70	0.2				eS	17	38.00										
			iS	16	45.00			1.5s	525.00nm			6 6mb		VIE	91.88	37	iPd	06	37.50	0.7									
BSF	86.33	41	iP	06	10.70	-0.1		Z 18s	54.00um			7.0Msz					pP	07	02.00	90kmX									
	1.4s	375.00nm			6.3mb			N 18s	23.00um								PP	10	22.00										
TNS	86.37	38	eP	06	11.20	0.3		E 18s	43.00um								PS	18	47.00										
			i	06	12.70					iS	17	15.00					PKKP	23	51.00										
			e	06	36.60		PCN	89.28	42	P	06	30.00	5.2X				e	54	00.00										
			e	17	47.70					iS	17	04.00		PRG	91.90	43	P	06	39.00	1.9									
			e	18	16.00		KEP	89.29	149	eP	06	34.00	9.5X				e	17	31.00										
CDF	86.39	40	iP	06	11.30	0.2	OGA	89.34	40	eP	06	25.80	0.4	SOP	92.28	38	ePd	06	37.00	-1.7									
	1.8s	381.00nm			6.2mb		WET	89.43	38	iPd	06	25.80	0.3	MNS	92.41	44	P-	06	39.30	0.0									
ECH	86.40	40	P-	06	11.50	0.5	VUN	89.46	251	eP	06	27.90	1.8				ipP	07	10.00	117kmX									
			eSKS	16	28.00		SVA	89.50	251	eP	06	27.00	0.8	NRI	92.50	358	Pd	06	38.60	-0.6									
			eS	16	44.00		SAL	89.58	42	P	06	26.20	0.0				isP	07	03.00										
			eSP	17	38.00					i	06	51.00		RMP	92.69	44	P	06	41.00	0.3									
BAF	86.45	41	P-	06	11.60	0.2				e	17	26.00					iPP	10	40.00										
UPP	86.59	27	iP	06	12.20	0.6	CVF	89.80	45	eP	06	28.60	1.2				iS	17	50.00										
	1.3s	1300.00nm			6.9mb			1.3s	122.00nm			6.0mb					iPS	19	24.00										
			i	06	35.90		KHC	89.84	38	iP	06	27.50	0.0	AQU	92.90	44	P	06	42.00	0.3									
			iPP	10	02.00					i	06	29.00					ePP	11	09.00										
			iSKS	16	23.00					i	06	52.00		KRA	92.94	35	ePd	06	41.30	-0.3									
			iS	16	49.00					i	08	05.00			1.2s	429.00nm			6.8mb										
CDR	87.28	45	P	06	15.80	0.5				i	09	12.00			Z 31s	130.00um			7.2MszX										
DIX	87.41	42	P	06	15.20	-1.1				i	09	33.00					i	06	43.30										
STU	87.41	39	i(P)d	06	16.00	0.1				i	10	25.00					i	06	45.80										
	3.0s	5200.00nm			7.2mb					S	17	19.00					i	06	51.30										
	Z 20s	42.60um			6.9Msz					e	23	30.00					i	07	10.80										
APA	87.42	17	Pd	06	15.00	-0.6	PRA	89.88	36	iPd	06	27.00	-0.6				i	10	22.00										
			isP	06	44.00					pP	06	53.00	97kmX				i	15	28.00										
			iS	16	42.00					PP	10	00.00					i	17	42.00										
ZUL	87.46	41	P	06	15.80	-0.4				e	10	30.00					e	32	01.60										

24d 15h

			e	32	07.30		BUC	99.61	37	eP	07	06.00	-6.1X				PP	13	26.00				
KUR	93.01	320	Pd	06	42.00	0.0	WEL	99.63	230	P	07	14.00	1.9				SKS	19	36.00				
			isP	07	06.00					pP	07	36.00	80kmX				SKKS	20	51.00				
			eS	17	48.00					e	08	17.00					eSS	29	47.00				
SRO	93.23	37	iP	06	43.60	0.6				PP	11	22.00		TLG	118.68	4	ePdiff	08	38.00	0.9			
	N 26s	43.30um								SKS	17	51.00		NJ2	118.69	324	Pdiff	08	40.00	2.7X			
	E 26s	83.30um								ScS	18	53.00					PP	13	33.00				
			i	07	11.70					SP	20	06.00					SKS	19	10.00				
			i	07	11.70					PPS	20	35.00		CAN	118.70	239	PKP	12	28.20	11.0X			
			i(PP)	10	37.00					PKKS	25	39.00		WAM	118.83	238	PKP	12	22.40	5.1X			
			e	17	21.00		PVL	99.83	38	Pd	07	13.00	-0.2	FRU	118.89	6	ePdiff	08	39.00	1.0			
			i(S)	17	46.80		MIZ	100.47	317	ePdiff	07	18.00	2.0	DRV	118.99	203	PKP	12	15.00	-1.6			
NIE	93.49	35	iPd	06	46.30	2.1				(SKS)	10	43.00					ePP	13	36.00				
SPC	93.58	35	eP	06	46.30	1.4	DIM	100.73	39	ePdiff	07	20.00	2.9X				eSP	23	22.00				
	Z 18s	124.00um				7.4Msz	KDZ	100.83	39	Pdiffd	07	17.00	-0.6	TEH	119.08	28	ePKP	12	15.00	-3.0X			
			i	06	48.80		ATH	101.92	43	iPdiff	07	24.00	1.5	YOU	119.15	240	PKP	12	19.60	1.6			
			i(pP)	07	09.70	86kmX				iS	11	12.00		CTA	119.44	257	ePdiff	08	40.00	-0.9			
			ePP	10	33.70					iPP	11	36.00		CTA	119.44	257	iPKP	12	17.40	-1.5			
BUD	93.81	37	ePd	06	47.00	1.3	EZN	102.50	41	Pdiff	07	26.30	1.2				iPP	13	48.00				
			epP	07	10.00	84kmX	EDC	103.13	39	Pdiff	07	29.00	1.1				iSKP	15	44.20				
DUI	93.92	44	P	06	45.00	-1.3	ARU	103.14	13	Pdiffd	07	26.80	-0.7				iSKS	19	08.00				
			ePP	10	14.50		SVE	103.17	12	Pdiffd	07	28.00	0.4				iSKKS	20	33.00				
SGG	94.00	44	P	06	47.00	0.2	IST	103.37	38	Pdiff-	07	29.20	0.3				iPKKP	22	32.00				
JOS	94.12	36	eP	06	48.00	0.9				S	18	24.00					iPS	23	28.00				
	1.8s	440.00nm				6.6mb	ISK	103.39	38	Pdiff	07	35.00	6.0X	PRZ	119.52	3	ePdiff	08	31.00	-10.0X			
BLY	94.14	40	iP	06	49.00	1.7	MAT	103.84	316	Pdiff+	07	32.00	0.8	WIN	119.60	106	ePdiff	08	52.00	10.2X			
OVO	94.28	45	P	06	49.00	0.9	IZM	103.94	41	Pdiff	07	33.00	1.4		1.2s	56.20nm							
UZH	95.01	35	Pd	06	51.00	-0.2	HNR	104.08	265	ePdiff	07	40.00	7.3X		Z 18s	17.80um				6.7Msz			
			eS	17	57.00		ALT	105.29	39	Pdiff	07	38.60	0.9				i	12	19.60				
YSS	95.13	323	Pc	06	52.00	0.2	ANTO	106.34	37	ePdiff	07	44.00	1.7	TAS	119.63	11	ePdiff	08	40.00	-1.3			
			epP	07	14.00	80kmX		3.0s	256.00nm			6.8mb		SHD	120.00	25	ePKP	12	21.00	1.3			
			esP	07	18.00		CN2	106.48	329	Pdiff	07	43.00	0.3	TAU	120.02	231	ePdiff	09	12.00	29.0X			
			iS	17	54.00					e	11	52.00		TAU	120.02	231	ePKP	12	21.00	1.7			
LVV	95.25	33	Pd	06	52.70	0.4				PP	12	13.80					ePP	13	42.00				
			iS	18	00.00		BCK	106.59	40	Pdiff	07	44.00	0.6				eSKS	19	16.00				
GIB	95.36	47	P	06	53.00	-0.2	KVT	107.33	35	Pdiff	07	51.00	4.4X				e	20	46.00				
			i	10	24.00		SPA	108.11	180	iPdiff	08	01.10	11.5X				e	22	28.00				
KUK	95.47	82	P	06	54.00	0.1		0.5s	33.50nm								e	23	20.00				
CEI	95.64	36	eP	06	50.00	-4.1X		Z 20s	38.20um			7.0Msz					eSS	30	08.00				
TIM	96.03	38	eP	06	58.00	2.1	SHK	108.65	317	ePdiff	07	54.50	1.9				eSSS	33	38.00				
BEO	96.08	39	P	06	56.60	0.4	SBA	108.76	193	Pdiff	08	14.00	21.9X	JAY	120.27	278	ePKP	12	19.00	-1.7			
			iPP	10	38.20					e	09	10.00		ANR	120.67	8	ePdiff	08	48.00	2.0			
			eSKS	17	37.00					e	11	43.00		SAM	120.77	13	ePdiff	08	45.00	-1.5			
			e	18	05.00					PP	12	24.00		TOO	121.57	237	ePKP	12	21.00	-1.5			
BRT	96.11	44	P+	06	53.50	-2.9				SKS	18	32.00					eS	26	05.00				
BMR	96.22	35	eP	07	00.00	3.2X				e	20	14.00		MAIO	121.81	21	Pdiff	08	54.10	2.9X			
SSR	96.82	38	eP	07	00.00	0.4				PS	21	40.00					i	12	23.20				
DEV	96.92	37	eP	07	00.00	0.0				SP	22	20.00					i	13	57.30				
GZR	97.13	38	eP	07	02.00	1.0				SS	27	28.00					eS	22	34.80				
MOS	97.42	23	Pd	07	02.00	0.0				e	45	20.00		LZH	122.10	339	Pdiff	08	51.50	-1.1			
OBN	97.45	24	Pd	07	02.00	-0.1	UER	109.68	352	ePdiff	07	55.00	-1.7				PP	13	56.50				
TIR	97.59	42	P	07	05.20	2.1	RAB	109.94	272	ePdiff	08	04.00	5.2X	DSH	122.21	12	Pdiffd	08	55.00	2.1X			
KMU	97.60	319	eP	07	03.20	0.1		Z 20s	35.50um			6.9Msz		WHN	122.28	327	Pdiff	08	58.00	4.7X			
KRP	98.13	233	eP	07	06.00	0.7	GUA	110.23	292	e(Pdif	08	01.00	1.0				PP	13	57.00				
			e	07	24.00		GUMO	110.25	292	e(Pdif	08	01.00	0.9	KSH	122.37	5	Pdiff	08	56.00	2.3X			
			PP	11	04.00		GRO	110.33	27	ePdiff	08	00.00	0.2				e	12	23.00				
			PKKP	23	34.00		BKR	110.62	30	Pdiffd	08	02.00	0.6				PP	14	02.00				
			e	24	08.00		LEN	111.53	30	ePdiff	08	08.00	2.5X				eSKS	19	35.00				
			e	24	34.00		SEM	111.66	1	ePdiff	08	07.00	1.4				eSKKS	21	03.00				
			PcPP'	27	04.00		HLW	111.82	46	iPdiff	08	09.00	2.2X	KHI	123.44	23	iPKPc	12	26.00	-0.4			
			e	27	26.00			Z 22s	24.00um			6.7Msz		TTN	123.99	315	PKP	12	28.20	0.7			
SAP	98.15	320	eP	07	05.00	-0.5				iS	13	00.00		QZH	124.10	319	Pdiff	09	05.00	3.4X			
SKO	98.24	41	iPd	07	06.00	0.0	ERE	112.30	30	Pdiff	08	11.00	2.2X				e	12	22.00				
			i	07	08.30		KRV	112.78	29	ePdiff	08	13.00	2.2X				PP	14	04.80				
			i	07	31.00		NVL	113.65	160	ePdiff	08	21.00	7.0X				eSKS	19	43.50				
			iPP	11	05.00		GRS	113.70	29	Pdiffd	08	11.00	-4.2X				SKKS	20	51.00				
			i	11	30.00		BNG	113.74	77	iPdiff	08	17.50	1.8	SHI	124.66	31	ePKPd	12	28.00	-0.9			
			iPPP	13	04.00			1.2s	22.10nm					TGI	124.70	23	ePKP	12	28.40	-0.5			
			i	15	07.00		BJI	113 77	332	ePdiff	08	15.00	-0.2	HEN	124.77	315	ePKP	12	32.00	3.0X			
			iSKKS	18	01.00			Z 23s	50.00um			7.1MszX		ISQ	125.74	257	PKPc	12	30.60	-0.5			
			i(PS)	20	27.00			N 23s	37.00um					KAAO	126.14	13	ePKP	12	31.00	-0.8			
OHR	98.31	42	iP	07	06.10	-0.3				ePP	13	00.00			2.0s	290.00nm							
			i	07	31.50		EIL	114.44	44	Pdiff	08	21.00	2.5X				i	12	59.00				
CMP	98.50	37	ePc	07	08.00	0.9	TAB	114.84	30	ePdiff	08	23.00	2.8X	KBL	126.14	13	e(Pdif	09	19.00	8.2X			
IAS	98.71	34	eP	07	09.00	1.0				e	12	13.00		CDU	126.91	336	PKP	12	32.00	-1.1			
BAC	98.74	35	eP	07	10.00	1.9				e	12	55.00					PP	14	27.00				
MLR	98.87	36	eP	07	10.00	1.0				i	13	04.00					ePKS	16	14.60				
MNG	98.93	230	eP	07	12.00	3.0X	BTO	115.86	336	Pdiff	08	26.00	1.3				SKS	19	38.00				
SOF	99.00	40	Pd	07	07.00	-2.5				PP	13	16.50		ADE	127.13	240	PKP	12	33.00	-0.4			
VRI	99.08	35	eP	07	10.00	0.3	TIA	116.38	329	Pdiff	08	28.00	1.0	CNP	127.84	303	ePKPd	12	35.00	-0.2			
VAY	99.31	41	eP	07	11.00	0.2				PP	13	19.00					eS	14	38.00				
			i	07	36.00		BHD	117.56	35	ePKP	12	18.00	3.1X	LGP	128.21	304	ePKPd	12	35.70	-0.1			
ODB	99.32	35	eP	07	13.00	2.2	WMO	118.03	355	Pdiff	08	35.80	1.6	GRM	128.59	118	iPKPc	12	36.00	-0.2			
BIR	99.32	35	eP	07	08.00	-2.8				PP	13	27.80			2.1s	293.00nm							
KIS	99.51	34	Pd	07	11.00	-0.6				SKKS	20	24.80			Z 22s	22.00um				6.8Msz			
			isP	07	35.00		SSE	118.06	322	Pdiff	08	36.00	1.5				e	24	56.00				
BOD	99.59	343	Pd	07	11.30	-0.5				e	12	10.00		BAG	128.60	310	PKPd	12	34.00	-2.8X			

24d 15h

			e	14	30.00				1.0s	115.00nm					KIPM	1.56	145	iPc	27	58.69	-1.9
GZH	128.66	322	PKP	12	34.90	-1.6				eS	26	03	00		KCPM	1.62	149	iPd	27	59.71	-1.8
			PP	14	41.40		BDT	140.90	333	iPKPd	12	07	.60	-52.0X	KBNM	1.63	137	iPc	28	00.01	-1.6
			PKS	15	58.90			1.3s		716.00nm					WDC	1.67	107	iPc	28	00.40	-1.8
HKC	128.77	321	PKP	12	36.00	-0.7	MKS	141.02	285	ePKPd	13	00	.00	0.0	KFPM	1.72	147	ePc	28	00.76	-2.1
KSR	128.84	109	iPKPc	12	37.00	-0.1	KLG	142.01	243	ePKP	12	54	.00	-7.3X	KSPM	1.80	151	ePd	28	01.37	-2.6
MAW	129.17	171	ePKP	12	35.00	-1.1	BOM	142.07	14	PKP	12	59	.00	-2.7X	LGBM	1.87	81	iPc	28	03.91	-1.3
MAN	129.34	308	ePKP	12	39.60	1.6	POO	142.64	12	PKP+	12	59	.00	-3.7X	KRKM	1.89	143	iPc	28	03.29	-2.1
			eS	14	45.00		MBL	144.13	259	PKPc	13	00	.90	-4.2X	GCBM	1.91	153	ePd	28	02.57	-3.0
QCP	129.36	308	PKP	13	28.10	50.1X	VIS	144.25	358	PKP	13	08	.00	2.6X	GBDM	1.94	148	iPd	28	03.86	-2.1
GYA	129.45	331	PKP	12	35.60	-2.5X	HYB	144.44	5	PKP	13	02	.50	-3.3X	GRNM	2.08	156	iPd	28	05.28	-2.7
			PP	14	49.60					pP	16	09	.50		GHMM	2.09	141	iPc	28	05.65	-2.6
			PKS	15	59.60					SKS	19	38	.00		LBFM	2.09	82	iPc	28	07.34	-1.1
AAE	129.62	61	ePdiff	09	30.00	3.1X	NWAO	145.04	238	PKPd	13	04	.10	-2.3	LTCM	2.11	114	iPc	28	06.51	-1.9
QUE	129.79	17	PKP	12	26.60	-12.2X	MEK	145.12	249	ePKP	13	04	.00	-2.8X	GWRM	2.14	151	iPd	28	06.60	-2.4
BUL	129.90	101	ePKPc	12	38.00	-1.2	GOA	145.59	14	PKP	13	03	.00	-4.7X	LPDM	2.23	86	iPc	28	08.84	-1.5
	Z 20s		36.90um			7.1Msz				PP	16	15	.00		VCMM	2.23	62	iPc	28	09.37	-1.1
	N 20s		16.30um				MUN	146.13	239	ePKP	13	08	.00	-0.3	GCWM	2.29	148	iPd	28	08.93	-2.3
	E 20s		19.10um				SWV	146.27	240	ePKP	13	08	.00	-0.5	LMHM	2.30	77	iPc	28	10.00	-1.5
PRE	130.00	109	ePKP	12	38.20	-1.0	AVY	147.72	97	iPKPd	13	11	.70	0.3	GAFM	2.35	158	iPd	28	09.01	-3.0
	2.3s		309.00nm				GBA	148.08	8	PKP	13	11	.00	-0.8	GHLM	2.39	148	iPc	28	10.13	-2.5
			i	24	54.20		NAU	148.17	256	PKPd	13	13	.10	1.4	LMZM	2.40	102	iPc	28	10.85	-1.8
DAV	130.02	296	PKPd	12	38.00	-1.4	TRT	148.24	285	iPKPc	13	12	.20	0.1	GHGM	2.40	144	iPc	28	10.35	-2.4
			eS	14	56.00			1.2s		556.00nm					GSNM	2.42	152	iPd	28	10.44	-2.5
KRI	130.35	97	ePKP	12	38.00	-2.1	PBA	148.41	339	PKP	13	19	.00	6.7X	MIN	2.43	107	iPc	28	10.67	-2.5
BHK	130.37	6	PKP	12	42.40	2.8X				PP	17	13	.00		LCFM	2.44	103	iPc	28	11.39	-1.9
WB2	130.48	259	PKP	12	21.20	-18.9X				SKKS	23	53	.00		LSLM	2.45	104	iPc	28	11.41	-2.0
			i	12	39.30		SNG	148.67	322	ePKP	13	14	.00	1.2	LRDM	2.50	103	iPc	28	12.26	-1.8
			i	12	59.50			1.9s		61.00nm					OCHM	2.51	118	iPc	28	11.24	-2.9
			i	15	12.70					eS	27	00	.00		GMKM	2.55	145	ePc	28	11.57	-3.3
ASP	131.26	254	ePKP	12	24.00	-17.6X	MDR	148.93	3	PKP	13	18	.00	4.9X	LCMM	2.56	111	iPc	28	12.67	-2.4
			eS	16	04.00		IPM	150.46	318	ePKPd	13	14	.10	-1.4	GDCM	2.56	155	iPd	28	12.20	-2.7
ARO	131.50	55	iPKPd	12	43.50	1.3		1.7s		360.00nm					VSCM	2.57	27	iPd	28	13.21	-1.9
			e	14	52.10		KGM	150.79	311	ePKPc	13	16	.80	0.8	GMCM	2.57	153	iPd	28	12.39	-2.7
			i	15	02.00			1.6s		455.00nm					GPMM	2.59	149	iPd	28	13.24	-2.2
			i	16	36.50		KOD	151.40	9	ePKP	13	17	.00	-0.3	VCLM	2.60	46	iPd	28	14.55	-1.1
KKR	131.85	6	PKP	12	44.00	1.6				e	13	30	.00		GGLM	2.62	146	iPd	28	13.92	-1.9
MTN	132.29	269	ePKP	12	44.00	0.4				e	13	31	.00		GWKM	2.62	140	iPc	28	13.57	-2.3
KMI	132.33	334	PKP	12	32.00	-11.8X				PKS	16	56	.00		GRTM	2.63	144	ePc	28	13.26	-2.7
			e	12	43.00					ePP	17	02	.00		GCVM	2.63	151	iPd	28	13.47	-2.5
			PKP	12	46.00					SKS	20	23	.00		LHKM	2.64	103	iPc	28	14.57	-1.7
			pPKP	13	02.00					PPP	20	36	.00		GMOM	2.64	154	iPd	28	12.72	-3.4
			sPKP	13	09.00					SKSP	27	12	.00		GBOM	2.65	148	ePc	28	13.67	-2.6
			PP	15	00.00					LQ	04	59	.00		GSGM	2.67	146	iPc	28	14.60	-1.9
			PKS	16	12.00		LEM	152.42	291	iPKPc	13	19	.00	0.4	GFTM	2.68	148	iPd	28	14.35	-2.4
AAI	132.38	282	e(PKP)	12	31.50	-12.4X		2.0s		588.00nm					GDXM	2.68	147	iPd	28	14.77	-2.0
NAI	132.75	74	ePKP	12	47.00	2.1	TSI	152.82	321	ePKPd	13	20	.10	1.1	SKG	2.69	152	iPd	28	14.15	-2.7
	2.0s		588.00nm				TRD	153.03	11	PKP	13	18	.00	-1.2	GGPM	2.70	149	iPd	28	14.65	-2.4
CIR	132.76	102	PKP+	12	46.00	1.6	PSI	153.23	319	ePKPd	13	19	.00	-0.5	GCMM	2.70	147	iPd	28	15.05	-2.0
NDI	133.16	6	ePKP	12	45.00	0.0		1.5s		800.00nm					GHCM	2.72	155	iPd	28	14.10	-3.1
	Z 20s		21.30um			6.9Msz	PPI	154.59	312	ePKP	13	20	.10	-1.3	GSMM	2.72	148	iPd	28	15.00	-2.3
	N 20s		23.40um					1.2s		190.00nm					OGOM	2.72	121	iPc	28	13.78	-3.5
	E 20s		17.70um					S.D. = 1.1 on 457 of 540 obs.							GBGM	2.73	146	iPd	28	15.74	-1.7
			ePP	15	12.00										GCRM	2.75	147	iPd	28	15.53	-2.1
MNI	133.37	290	ePKP	12	46.50	0.7	& NOV 08, 1980 10h 27m 33.03s								GAXM	2.78	148	iPd	28	15.82	-2.3
TOC	133.56	344	PKP	12	56.00	10.3X	41.088 N 124.643 W								OSUM	2.80	129	iPc	28	15.42	-2.9
CNG	133.61	109	ePKP	12	44.00	-1.9	DEPTH = 12.8km (geophysicist)								FTR	2.80	156	ePd	28	15.51	-2.9
	2.0s		199.00nm				6.2mb (52 obs.) 7.3Msz (12 obs)								OTBM	2.82	122	iPc	28	15.32	-3.2
			e	15	17.00		NEAR COAST OF NORTHERN CALIF. (35)								OBHM	2.82	120	iPc	28	15.76	-3.0
			e	15	56.00		<GS>. Six people injured and								NHBM	2.83	151	ePd	28	16.08	-2.7
			e	16	12.00		damage (VII) in the Fields								NMTM	2.84	143	ePd	28	16.73	-2.1
			e	17	34.00		Landing area. One person injured								ORV	2.85	121	iPc	28	15.85	-3.2
			e	17	46.00		at Fortuna. Slight damage (VI)								NMHM	2.87	147	iPd	28	17.17	-2.2
			e	24	40.00		at many communities along the								OSTM	2.90	125	iPc	28	16.63	-3.0
TET	133.98	95	ePKP	12	50.00	3.2X	coast from Rio Dell, California								PAM	2.90	123	iPc	28	16.52	-3.1
			e	13	12.00		to Brookings, Oregon. Total								OWYM	2.92	123	ePc	28	17.00	-2.9
			e	15	39.00		damage estimated at 1.75 million								MAC	2.93	149	iPd	28	17.67	-2.5
PPR	134.15	304	ePKP	12	50.00	2.8X	dollars. Small landslides and								VHYM	2.94	65	iPc	28	18.52	-1.9
KNA	135.11	266	ePKP	12	38.00	-10.9X	liquefaction occurred along the								VGMM	2.95	31	ePd	28	19.20	-1.3
AJM	135.18	9	PKP	12	49.00	0.2	Eel River and the Big Lagoon								ORAM	2.95	122	iPc	28	17.65	-2.8
			PP	15	24.00		sand spit. Felt in an area of								NWRM	2.96	152	iPd	28	17.78	-2.7
CLK	135.23	94	PKP+	12	50.00	0.7	approximately 97,000 sq. km.								KPK	2.96	119	iPc	28	18.00	-2.6
SHL	135.38	347	PKP	12	35.00	-14.5X	from northern Oregon to the San								OHCM	2.99	125	iPc	28	17.72	-3.2
VAR	136.72	358	PKP	12	52.00	0.2	Francisco Bay area, as well as								VHBM	2.99	54	iPc	28	19.81	-1.3
			PP	15	34.00		in parts of western Nevada.								NSHM	3.01	148	iPc	28	18.92	-2.3
AGT	137.15	347	PKP	12	54.00	1.4									NBPM	3.07	141	ePc	28	20.00	-2.0
			PP	15	39.00		FHC	0.57	120	iPc	27	44	.30	-0.2	NTMM	3.09	150	iPd	28	19.72	-2.7
BOK	138.02	355	PKP	12	54.90	0.6	KBRM	0.63	124	iPc	27	45	.12	-0.4	VWMM	3.10	44	iPd	28	21.63	-1.2
			PKS	16	23.90		KCTM	0.65	159	iPd	27	45	.62	-0.2	AOHM	3.11	122	iPc	28	20.08	-2.6
KUPT	138.77	275	ePKP	12	57.50	1.6	WKC2	0.75	159	iPd	27	46	.80	-0.6	ABRM	3.11	128	ePc	28	19.50	-3.1
CAL	138.99	351	PKP	13	07.00	11.0X	KMPM	0.78	149	iPd	27	47	.26	-0.7	NCFM	3.11	152	iPd	28	19.96	-2.7
			PP	16	37.00		KGMM	0.80	114	iPc	27	47	.92	-0.6	NDHM	3.13	137	ePc	28	20.87	-2.0
NPA	139.18	92	ePKP	12	49.00	-7.6X	KCRM	0.91	136	iPc	27	49	.26	-1.0	NTBM	3.13	154	ePd	28	19.91	-3.0
			e	13	01.00		KBBM	1.08	146	iPc	27	51	.92	-1.1	CRD	3.19	148	iPd	28	21.51	-2.4
			e	15	53.00		KPPM	1.22	127	iPc	27	54	.03	-1 6	BBR	3.25	150	iPd	28	22.18	-2.6
NHA	139.43	316	PKP	12	59.00	2.0	KKPM	1.37	133	iPc	27	55	.10	-2.8	ABJM	3.27	125	iPc	28	22.23	-2.8
CHG	139.52	335	ePKP	12	48.50	-8.7X	KBSM	1.42	145	iPc	27	56	.73	-1.8	LOC	3.29	152	iPd	28	22.18	-3.1

08d 10h

AARM	3.31	122	iPc	28	23.43	-2.2	VTCM	4.40	29	iPd	28	31.37	-9.8	PRS	5.39	151	iPnd	28	51.30	-3.8
AVRM	3.31	127	iPc	28	22.40	-3.1	SVC	4.40	149	ePd	28	38.47	-2.6	LRV	5.45	148	ePd	28	52.76	-3.2
MIX	3.33	142	ePc	28	23.83	-2.1	MHC	4.41	147	iPnd	28	38.80	-2.5	LHV	5.52	119	ePd	28	55.12	-1.7
NPRM	3.33	157	ePd	28	23.05	-2.8	VGTM	4.42	22	iPd	28	39.51	-1.8	BPPM	5.54	151	ePd	28	52.94	-4.4
SNT	3.36	149	iPd	28	23.43	-2.8	LT15	4.42	152	ePd	28	37.57	-3.8	LMCR	5.54	125	ePd	28	56.57	-0.9
ALNM	3.36	129	ePc	28	23.43	-2.8	CRH	4.43	132	ePc	28	39.12	-2.3	HCK	5.56	121	ePc	28	55.72	-1.7
NOLM	3.36	154	ePd	28	23.55	-2.7	SOS	4.44	151	ePd	28	38.37	-3.4	HVC	5.58	146	ePd	28	54.52	-3.2
GVR	3.37	145	iPd	28	24.30	-2.1	ARN	4.45	146	iPd	28	39.31	-2.4	BTW	5.58	147	ePd	28	54.80	-3.0
AFRM	3.42	131	ePc	28	23.73	-3.3				eS	29	34.65		LRC	5.59	149	ePd	28	54.17	-3.8
ARWM	3.42	127	iPc	28	24.04	-3.0	JSTM	4.46	149	ePd	28	38.51	-3.4	FRI	5.61	135	iPc	28	56.11	-2.1
APRM	3.44	129	iPc	28	24.27	-3.0	COE	4.47	148	ePd	28	39.50	-2.5	MNV	5.66	116	ePd	28	56.23	-2.8
VSBM	3.45	44	iPd	28	26.50	-1.2	MOYM	4.48	134	ePc	28	39.43	-2.7	BMN	5.67	94	ePnc	28	55.50	-3.7
VMHM	3.47	28	iPd	28	25.80	-2.0	AMC	4.49	150	ePd	28	38.74	-3.5	PJLM	5.69	150	ePd	28	54.95	-4.3
ARRM	3.54	130	iPc	28	25.51	-3.2				S	29	32.82					iS	30	00.30	
NLHM	3.54	146	iPd	28	26.58	-2.2	JAS	4.52	133	ePc	28	40.81	-1.9	CLKR	5.70	126	ePc	28	59.16	-0.6
AHRM	3.54	128	iPc	28	26.11	-2.7	VIPM	4.52	40	iPd	28	41.18	-1.7	MOP	5.72	147	ePd	28	56.72	-3.1
ADC	3.54	126	iPc	28	25.96	-2.9	JHLM	4.53	150	ePd	28	39.52	-3.5	PRCM	5.76	146	ePd	28	57.55	-2.7
NTPM	3.55	152	iPd	28	25.30	-3.6	CMPM	4.54	144	iPd	28	41.17	-1.8	PAPM	5.77	152	ePd	28	56.30	-4.2
AFHM	3.59	123	iPc	28	27.42	-2.3	GCC	4.55	152	iPnd	28	39.40	-3.7	ORC	5.78	125	ePc	28	59.33	-1.4
AGIM	3.60	127	iPc	28	26.85	-2.8	JRGM	4.55	152	iPd	28	39.60	-3.6	BONR	5.82	120	ePc	28	59.15	-2.2
NFIM	3.62	159	iPd	28	26.80	-3.1	JUCM	4.55	153	ePd	28	39.44	-3.7	PRI	5.84	146	iPnd	28	59.10	-2.4
CDSM	3.62	149	iPd	28	28.55	-1.5	VBEM	4.56	28	iPc	28	41.54	-1.8	PTV	5.84	147	ePd	28	58.99	-2.5
VPMM	3.63	53	iPc	28	28.81	-1.4	MSTM	4.57	133	ePc	28	41.17	-2.2	PSAM	5.85	149	ePd	28	57.79	-3.7
VWBM	3.63	38	iPd	28	28.95	-1.3	ADR	4.57	148	ePd	28	40.65	-2.8	PARM	5.89	144	ePd	29	00.39	-1.7
COR	3.63	15	iPnd	28	27.00	-3.1	MMWM	4.58	130	ePc	28	41.94	-1.8	PSMM	5.93	146	ePd	29	00.44	-2.3
AGC	3.65	151	iPd	28	27.54	-2.8	CBO	4.59	149	ePd	28	40.14	-3.5	PBYM	5.96	151	ePd	28	58.77	-4.3
HMR	3.66	142	ePd	28	29.53	-1.0	JTGM	4.59	151	ePd	28	40.23	-3.5	PCRM	5.98	145	ePd	29	00.90	-2.4
DUC	3.67	145	ePd	28	29.40	-1.3	EUC	4.59	150	ePd	28	40.44	-3.4	PIVM	6.03	148	ePd	29	00.55	-3.6
JPRM	3.69	152	ePd	28	27.98	-3.0	JRRM	4.62	150	ePd	28	40.65	-3.6	PHCM	6.05	152	ePd	29	00.38	-4.0
BKS	3.71	149	iPnd	28	28.30	-3.0	JBZM	4.63	150	ePd	28	41.23	-3.1	PANM	6.06	150	ePd	29	00.53	-3.9
ARJM	3.71	129	iPc	28	28.57	-2.8	PEV	4.65	151	iPd	28	41.18	-3.4	TRC	6.09	146	ePd	29	02.29	-2.6
VGPM	3.72	23	iPd	28	29.25	-2.2	HSPM	4.65	147	iPd	28	41.91	-2.8	PHGM	6.14	147	ePd	29	02.73	-2.9
BKC	3.72	147	iPc	28	29.53	-1.9	VJYM	4.67	34	iPd	28	42.45	-2.4				iS	30	18.10	
ALAM	3.79	130	ePd	28	29.65	-2.8	HGWM	4.68	149	ePd	28	41.42	-3.7	PKF	6.17	146	ePd	29	03.30	-2.7
CRPM	3.81	145	ePd	28	29.88	-2.8	GHS	4.70	147	iPd	28	42.51	-2.9	WKR	6.18	147	ePd	29	02.72	-3.5
CMCM	3.81	149	ePd	28	30.11	-2.6	HCZM	4.72	151	ePd	28	42.15	-3.5	PADM	6.20	150	ePd	29	02.25	-4.2
BGC	3.83	148	iPd	28	30.72	-2.3	PKC	4.72	150	ePd	28	42.48	-3.2	PHAM	6.21	146	ePd	29	03.73	-2.9
MGA	3.83	153	ePd	28	29.79	-3.2	HCPM	4.73	144	iPd	28	44.10	-1.6	PBRM	6.22	152	ePd	29	02.05	-4.7
AODM	3.90	128	iPc	28	31.80	-2.1	CDC	4.74	148	iPd	28	42.94	-3.0	GHC	6.23	146	ePd	29	03.92	-3.0
LKC	3.90	148	iPd	28	31.45	-2.4	MBFM	4.75	134	ePc	28	43.52	-2.5	PSRM	6.24	145	ePd	29	04.22	-2.9
SAC	3.90	153	ePd	28	30.45	-3.5	CBC	4.76	150	ePd	28	42.62	-3.5	PPRM	6.25	149	ePd	29	03.11	-4.1
CRAM	3.92	147	iPd	28	32.59	-1.6	VHEM	4.76	26	iPc	28	44.44	-1.9	PMCM	6.32	147	ePd	29	04.86	-3.3
MTC	3.94	145	ePd	28	32.43	-2.1	CSR	4.76	149	ePd	28	42.33	-3.9				eS	30	21.90	
ADWM	3.94	131	ePc	28	31.93	-2.6	HCOM	4.78	150	ePd	28	42.84	-3.6	PMRM	6.32	145	ePd	29	05.29	-3.0
JEGM	3.95	154	ePd	28	31.30	-3.3	PCL	4.80	146	ePd	28	44.38	-2.3	PAGM	6.36	146	ePd	29	05.97	-2.8
CSH	3.97	149	ePd	28	32.60	-2.3				eS	29	41.10		PSHM	6.41	147	ePd	29	05.82	-3.7
PCC	3.99	153	iPnd	28	31.70	-3.4	SFL	4.81	147	ePd	28	43.90	-3.0	PCGM	6.43	150	ePd	29	05.56	-4.2
VSMM	3.99	16	iPd	28	33.90	-1.3	ANZ	4.82	149	ePd	28	43.28	-3.8	PTRM	6.44	146	ePd	29	07.08	-2.9
DOO	4.00	146	ePd	28	33.41	-1.9	OCR	4.83	149	ePd	28	43.72	-3.4	TNP	6.47	115	ePnc	29	07.60	-2.9
CBSM	4.02	144	ePd	28	34.20	-1.4	VLMM	4.84	22	iPd	28	45.47	-1.8	PMGM	6.51	149	ePd	29	06.61	-4.3
PLC	4.03	148	iPd	28	33.39	-2.4	DIL	4.85	150	ePd	28	43.45	-3.9	GMW	6.59	11	ePn	29	09.10	-2.9
CPNM	4.05	147	ePd	28	34.66	-1.4	HSLM	4.86	144	iPd	28	46.71	-0.9	EUR	6.82	101	iPn	29	13.10	-2.4
JHPM	4.07	153	ePd	28	32.38	-3.9	VMNM	4.87	31	iPd	28	45.24	-2.4	WASM	7.16	136	ePc	29	18.22	-2.0
CVLM	4.08	147	iPd	28	34.92	-1.6	HFHM	4.87	148	ePd	28	45.05	-2.6	CFWM	7.18	131	ePc	29	19.77	-0.6
CSAM	4.10	145	ePd	28	35.39	-1.3	HBTM	4.87	149	ePd	28	44.11	-3.6	WKTM	7.18	135	ePc	29	18.53	-1.8
CTLM	4.14	145	iPd	28	35.42	-1.9	HJGM	4.91	150	ePd	28	44.28	-3.9	CPTM	7.31	131	ePc	29	21.62	-0.5
WCN	4.14	114	ePn	28	35.50	-2.0	PKH	4.92	148	ePd	28	46.07	-2.3	WHFM	7.31	135	ePc	29	20.40	-1.7
SFT	4.15	152	ePd	28	33.96	-3.4	HSFM	4.92	149	ePd	28	45.06	-3.4	WCHM	7.32	133	ePc	29	21.60	-0.8
			iS	29	25.23		LTR	4.94	147	ePd	28	45.62	-3.0	RVCM	7.33	132	ePc	29	20.70	-1.7
BGH	4.15	154	ePd	28	33.58	-3.8	MTR	4.95	154	iPd	28	44.54	-4.2	HWSM	7.33	131	iPc	29	22.05	-0.5
VFBM	4.15	50	iPd	28	35.98	-1.7	FRP	4.98	149	ePd	28	45.18	-4.1	CGSM	7.35	129	ePc	29	21.60	-1.2
MSJ	4.16	148	iPd	28	35.36	-2.3	SAO	4.98	149	iPnd	28	46.10	-3.2	WHVM	7.36	137	ePc	29	21.28	-1.6
MNHM	4.17	134	ePc	28	34.70	-3.0	HJSM	5.00	147	ePd	28	46.11	-3.4	WORM	7.36	135	ePc	29	21.60	-1.3
VBPM	4 18	30	iPd	28	35.77	-2.3	BVYM	5.01	149	iPd	28	46.04	-3.7	WBMM	7.37	138	ePc	29	21.28	-1.9
LTW	4.18	152	ePd	28	34.60	-3.3	BSLM	5.01	148	iPd	28	46.67	-3.0	CSSM	7.39	131	ePc	29	22.66	-0.6
VHOM	4.18	9	ePd	28	34.65	-3.3	BSRM	5.04	150	ePd	28	46.22	-3.9	WWPM	7.42	134	ePc	29	21.98	-1.7
MNR	4.20	145	iPd	28	36.15	-2.0				iS	29	44.93		WLPM	7.42	137	ePc	29	21.90	-1.9
CDVM	4.20	146	ePd	28	36.13	-2.1	VTHM	5.07	35	iPd	28	48.25	-2.2	WNMM	7.44	133	ePc	29	22.05	-1.9
JBMM	4.23	152	iPd	28	35.06	-3.7	BCGM	5.07	148	ePd	28	47.63	-2.9	WJPM	7.46	137	ePc	29	21.66	-2.6
SJH	4.24	151	ePd	28	35.90	-2.9	VTDM	5.07	27	iPd	28	48.34	-2.2	RCWM	7.51	131	ePc	29	24.23	-0.7
CVR	4.25	148	iPd	28	36.30	-2.6	BPCM	5.09	152	ePd	28	46.42	-4.4	WBSM	7.54	135	ePc	29	24.80	-0.7
			eS	29	28.67		BLRM	5.14	148	ePd	28	48.26	-3.2	WSCM	7.55	133	ePc	29	24.60	-0.9
LT3	4.26	153	ePd	28	35.09	-3.9	EKH	5.18	147	ePd	28	49.08	-3.0	MCW	7.70	9	ePn	29	24.30	-3.2
MRFM	4.26	130	ePc	28	37.37	-1.8	BSCM	5.18	148	ePd	28	48.76	-3.4	WCXM	7.71	132	ePc	29	26.37	-1.3
PSD	4.27	155	ePd	28	35.75	-3.5				iS	29	51.40		NEW	8.95	34	eP	29	42.00	-2.9
SEC	4.27	152	ePd	28	35.60	-3.6	BRMM	5.19	144	iPd	28	50.32	-1.9	DUG	9.04	92	eP	29	43.50	-2.8
VHHM	4.29	13	ePd	28	36.50	-2.9	JHC	5.20	150	iPd	28	48.23	-4.1	LAC	9.33	133	ePc	29	49.50	-0.8
CMLM	4.29	146	iPd	28	37.37	-2.2	EMT	5.21	147	ePd	28	49.57	-3.0	MSO	9.61	50	iPc	29	51.80	-2.4
VRBM	4.30	34	iPd	28	37.44	-2.2	VGB	5.25	31	iPd	28	51.06	-2.0		1.7s		1050.00nm			6.9mb
JSMM	4.32	153	ePd	28	36.01	-3.9	BVL	5.25	148	ePd	28	49.92	-3.2	BEI	9.69	80	iPc	29	53.80	-1.5
MHR	4.35	148	iPd	28	37.62	-2.7	BHSM	5.31	152	ePd	28	49.56	-4.4	PHC	9.81	350	iPd	30	57.50	60.8
CMMM	4.37	145	iPd	28	38.78	-2.0	LLA	5.32	146	iPnd	28	51.20	-2.9		0.5s		926.00nm			
COSM	4.38	144	iPd	28	38.63	-2.2	BPIM	5.33	148	ePd	28	50.39	-3.9	LDM	9.90	39	iP	29	55.60	-2.5
LXR	4.40	151	ePd	28	37.21	-3.8	BPFM	5.35	154	ePd	28	49.77	-4.7	MSU	9.93	101	iPc	29	57.10	-1.6
JBLM	4.40	153	ePd	28	37.15	-3.9	BMSM	5.35	145	ePd	28	52.29	-2.2	BCM	10.01	58	ePc	29	56.80	-2.9
			eS	29	28.40		SBT	5.35	147	iPd	28	51.57	-3.0	YKM	10.02	36	iPc	29	56.80	-2.9
MCUM	4.40	134	ePc	28	38.30	-2.7	SHW	5.39	18	eP	28	52.30	-2.9	KNB	10.05	110	eP	29	58.50	-1.8

08d 10h

BUT	10.05	57	ePc	29 58.50	-1.8	JSC	34.72	87	eP	34 20.40	-4.3				iS	46 35.00							
RXF	10.29	38	iP	30 00.00	-3.4	HBF	35.96	89	eP	34 31.50	-3.7	NEM	63.27	305	P	38 06.00	2.6						
IMW	10.50	70	iPc	30 05.70	-0.9	ADK	36.68	305	eP	34 40.00	-1.1	GUV	63.56	103	eP	38 06.20	0.5						
GCA	10.95	108	ePc	30 11.90	-0.6	PNY	37.07	67	iPc	34 41.80	-2.6	KMU	65.48	305	eP	38 17.80	0.0						
GLA	11.21	133	ePc	30 13.50	-2.5	GPD	37.41	73	eP	34 45.00	-2.4	URA	65.64	305	P	38 27.00	8.2						
			e	30 16.80		DVT	38.00	66	eP	34 50.40	-1.9	SAP	66.02	307	P	38 28.00	6.8						
BDW	11.36	76	iPc	30 16.20	-2.0	MD4	38.67	72	eP	34 56.10	-1.8	TRO	66.40	13	iP	38 22.20	-1.1						
TUC	14.14	124	iPc	30 54.90	-0.3	MD2	38.72	72	eP	34 56.90	-1.4	NRI	67.21	348	Pd	38 26.80	-1.7						
LD3	14.19	61	iPc	30 51.20	-4.6	BNH	38.72	66	eP	34 56.50	-1.9	KEV	67.53	10	iP	38 28.20	-2.3						
GOL	14.75	89	iPc	31 00.70	-2.7	ILT	39.29	331	Pd	35 03.60	0.9		1.3s	*******	nm	7.9mb X							
GLD	14.86	89	eP	31 01.10	-3.6				isP	35 06.70					i	38 35.50							
MSA	15.09	100	iPc	31 07.30	-0.6				ipP	35 09.00	18kmX				ePP	41 48.00							
SVM	15.46	117	iP	31 12.90	0.3	SCH	39.95	50	iPd	35 06.70	-1.7				eS	47 28.00							
ANMO	15.58	107	eP	31 12.20	-1.9	MIM	40.09	65	eP	35 07.80	-1.8	KIR	68.24	14	Pd	38 33.00	-2.0						
ALQ	15.58	107	ePc	31 12.40	-1.7	CBM	40.31	62	eP	35 09.20	-2.3				iS	47 42.00							
SIT	17.41	340	ePd	31 37.10	0.2	BPM	40.42	66	eP	35 10.70	-1.6	MIZ	68.39	303	ePc	38 44.00	7.6						
LUB	19.57	105	eP	31 58.00	-5.6	PQ0	41.23	65	eP	35 17.60	-1.4				S	47 43.00							
HQN	20.43	339	eP	32 12.10	-0.3	EMM	41.28	65	eP	35 18.60	-0.8	LM2	68.75	129	eP	38 38.60	-0.1						
CMTX	20.59	105	eP	32 09.60	-4.8	SMY	42.20	307	e(P)	35 29.00	2.2	NNA	68.79	129	P+	38 36.50	-2.6						
YKA	22.26	12	P	32 31.60	0.6	Z	20s	145.00um		6.9Msz					eS	46 40.00							
JCT	22.69	110	iP	32 31.90	-3.6	GDH	45.66	28	iPd	35 54.30	-0.3	SOD	69.68	11	P	38 41.70	-2.1						
SIO	22.78	94	iPc	32 31.50	-4.8		1.2s	937.00nm		6.6mb		PT02	69.79	129	eP	38 44.10	-1.1						
RLO	23.59	92	iPc	32 40.10	-4.1				iS	42 30.00		BOD	69.88	331	eP	38 44.00	-1.1						
KDC	24.36	323	ePd	32 54.10	2.7	PET	51.19	311	eP	36 37.00	-0.7	AFI	69.94	229	eP	38 46.00	-0.1						
TOA	24.70	336	ePd	32 57.20	2.4				eS	43 58.00					PcS	42 42.00							
PMR	25.32	332	ePd	33 02.00	1.5	SEY	51.36	324	Pd	36 38.60	-0.3				PPP	43 00.00							
Z	18s	600.00um		7.2Msz		GAL	52.75	110	iP	36 53.50	3.6				S	48 02.00							
TYS	26.21	84	eP	33 06.00	-3.1	MGD	52.95	321	ePd	36 51.00	0.1				SS	52 20.00							
FVM	26.47	85	iPc	33 06.90	-4.7				epP	36 52.00	3kmX				SSS	55 32.00							
Z	18s	100.00um		6.4Msz					esP	36 56.00					e	59 00.00							
POW	26.50	90	eP	33 07.50	-4.3				eS	44 24.00		RAR	70.04	215	P	38 50.00	3.5						
DON	27.10	87	eP	33 12.40	-4.9	SKR	53.51	309	eP	36 56.00	0.9				S	48 01.00							
JHP	27.21	90	eP	33 20.60	2.3				eS	44 26.80					e	55 00.00							
WLA	27.21	91	eP	33 14.60	-3.7	DAG	53.88	16	iPd	36 55.50	-2.0	APA	70.41	9	Pd	38 47.50	-0.7						
COL	27.30	339	eP	33 19.00	0.1		1.5s	861.00nm		6.5mb					iS	47 57.00							
			e(S)	37 50.00		SJG	54.69	96	iP	37 02.30	-1.9	TSK	70.78	301	eP	38 52.80	1.7						
FBA	27.30	339	ePd	33 19.00	0.1				i	37 10.00		BER	70.91	24	iP	38 50.30	-1.1						
SDN	27.46	313	eP	33 24.00	3.7				iS	44 56.00		PT03	71.00	129	eP	38 51.30	-1.2						
LST	27.47	88	eP	33 17.00	-3.6	TIK	56.43	339	Pd	37 14.00	-2.1	DMU	71.36	34	eP	38 52.40	-1.8						
SVW	27.50	327	ePd	33 21.20	0.5				eS	45 03.00			1.3s	410.00nm		6.4mb							
ELC	27.59	86	eP	33 17.00	-4.8	TOV	57.35	107	iPc	37 22.70	-0.7	KYS	71.37	301	eP	39 02.50	7.9						
INK	27.68	353	iPc	33 21.30	-0.9		0.6s	58.80nm		5.8mb		DDR	71.50	302	eP	38 57.80	2.3						
	0.5s	298.00nm		6.3mb		SDV	57.36	108	iPd	37 23.30	-0.3	DCN	71.60	34	eP	38 53.40	-2.3						
GRT	27.79	88	eP	33 19.70	-3.9		0.9s	222.00nm		6.2mb			1.3s	920.00nm		6.7mb							
MPH	27.83	91	eP	33 20.60	-3.3	FUQ	57.55	114	iP	37 23.00	-2.2	PT04	71.65	130	eP	38 56.10	-0.3						
MET	27.83	91	iPc	33 20.60	-3.4	KBS	57.58	9	iPd	37 23.60	-0.6	SRY	71.69	301	eP	38 59.00	2.5						
			S	38 14.00		BOG	57.93	115	iP	37 27.50	-0.3	UME	71.79	16	Pd	38 46.80	-9.8						
EBZ	28.26	91	eP	33 24.50	-3.4	BOCO	57.98	115	iPc	37 27.30	-0.9	MAT	71.80	303	iPd-	38 56.20	-1.0						
TTA	28.67	330	e(P)	33 30.10	-1.2	KHE	58.54	359	Pd	37 29.00	-1.9		1.1s	122.00nm		5.9mb							
ACM	28.76	74	eP	33 29.50	-2.8				eS	45 32.00					eS	48 06.00							
IMA	29.85	337	ePd	33 42.00	0.0	OAQ	58.58	122	iPc+	37 32.00	-0.4	OYM	71.82	301	eP	38 59.50	2.1						
AN11	30.06	78	ePc	33 39.80	-4.2	NCE	58.92	123	iP	37 35.80	0.8	EKA	71.84	31	P	38 56.00	-1.0						
AN10	30.24	78	eP	33 41.90	-3.7	CAR	58.96	104	iPc	37 33.00	-1.7		1.3s	188.00nm		6.0mb							
IIC	30.32	127	eP	33 46.00	-0.8		0.5s	76.10nm		6.1mb		DLE	71.95	34	eP	38 55.10	-2.6						
AN12	30.34	77	ePc	33 42.30	-4.1	REY	58.98	30	iP	37 33.10	-1.0		1.3s	430.00nm		6.4mb							
AAM	30 42	74	ePc	33 43.70	-3.4	AKU	59.54	27	iPd	37 37.00	-1.0	DDK	71.97	34	eP	38 55.10	-2.7						
UTO	30.62	75	iPd	33 46.50	-2.3		1.4s	1550.00nm		6.9mb			1.5s	520.00nm		6.4mb							
TAC	30.63	127	eP	33 45.00	-4.5	TPT	59.71	206	iP	37 40.50	0.9	NB2	72.07	21	P	38 57.40	-1.0						
			eS	38 58.50			1.2s	35.00nm		5.4mb			1.3s	632.00nm		6.5mb							
IIM	30.70	127	iP	33 51.00	0.9				ipP	37 44.90	14kmX	PDA	72.21	55	P	39 03.00	3.5						
AN3	30.71	77	ePc	33 45.80	-3.9	PMO	59.82	206	iP	37 41.20	0.8	KON	72.77	22	iP	39 01.60	-0.9						
IIP	30.84	127	eP	33 51.00	-0.4		1.2s	35.00nm		5.4mb		KONO	72.77	22	eP	39 01.50	-1.0						
III	31.26	129	iP	33 53.60	-1.4				ipP	37 45.70	15kmX	KJF	72.80	12	Pd	39 01.60	-1.0						
BETH	31.33	82	eP	33 50.70	-4.4	RUV	59.83	206	iP	37 41.40	1.0				i	39 08.00							
IIT	31 46	126	eP	33 56.60	-0.2		1.2s	110.00nm		5.9mb					ePP	41 48.00							
ORT	31.79	86	eP	33 55.70	-3.5				ipP	37 45.80	14kmX				eS	48 28.00							
NKI	31.89	307	eP	34 01.00	1.1	VAH	59.95	206	iP	37 42.00	0.7	ECP	72.82	35	eP	38 56.30	-6.6						
CLE	32.15	75	iPd	33 59.50	-2.8		1.2s	80.00nm		5.7mb			1.7s	390.00nm		6.2mb							
			S	39 16.00					ipP	37 46.50	15kmX				eS	48 28.00							
TKL	32.28	86	eP	33 59.10	-4.4	AMN	60.54	198	iP	37 50.00	4.8	HFS	73.49	20	iP	39 05.10	-1.6						
ANM	33.08	329	eP	34 10.40	0.2		1.3s	345.00nm		6.3mb			1.3s	565.00nm		6.5mb							
HIL	33.54	240	P	34 14.00	-0.6	OTP	60.84	198	iP	37 50.80	3.5	Z	19s	473.00um		7.8Msz							
HKL	33.60	242	P	34 19.00	3.9		1.3s	315.00nm		6.3mb		SUF	73.92	14	iP	39 08.20	-0.9						
MKH	33.71	240	P	34 17.00	0.9	KUR	60.88	306	eP	37 49.00	1.6	ABU	74.52	303	ePd	39 16.00	2.9						
MRG	33.80	77	iPd	34 14.90	-1.8	YAK	61.24	329	iPd	37 49.00	-0.6	CN2	74.62	315	Pd	39 12.80	-0.7						
			eS	39 41.00			2.0s	1620.00nm		6.8mb					PP	42 02.50							
HVO	33.89	240	iP	34 22.00	4.2	PPN	62.69	207	iP	38 00.10	0.3				iS	48 51.00							
			iS	39 04.00			1.2s	80.00nm		5.8mb		OSK	74.62	303	P	39 21.00	7.2						
PRM	33.97	88	eP	34 14.00	-4.2	PPT	62.78	207	iP	38 00.80	0.5	UPP	74.72	19	Pd	39 12.40	-1.4						
MOK	34.11	245	P	34 23.00	3.5		1.2s	110.00nm		5.9mb					i	39 17.80							
KKH	34.18	241	P	34 22.00	1.8	AFR	62.82	207	iP	38 00.90	0.3				iPP	42 08.00							
BLA	34.24	82	iPc+	34 17.60	-3.0		1.2s	110.00nm		5.9mb					iS	48 48.00							
	1.2s	988.00nm		6.6mb		PAE	62.86	207	iP	38 01.20	0.3	ARE	75.49	128	Pc	39 18.50	-0.7						
			eS	39 42.80			1.2s	75 00nm		5.7mb					iS	48 56.00							
DHN	34.25	71	eP	34 13.50	-7.1	TVO	62.87	206	iP	38 01.40	0.4	NUR	75.68	15	Pd-	39 18.30	-1.0						
KIP	34.32	245	eP	34 25.00	3.7		1.2s	85.00nm		5.8mb					i	39 36.50							
HON	34.38	245	P	34 24.00	2.1	YSS	63.02	310	Pc	38 02.00	0.2				ePP	42 16.00							

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			eS	49 00.00	
SHK	76.56	304	eP	39 25.20	0.5
COP	76.93	23	iPd	39 26.00	-0.4
	1.0s	300.00nm			6.3mb
			i	41 55.00	
			iPP	42 24.00	
			iPPP	44 15.00	
			iS	49 15.00	
ZOBO	77.39	125	P	39 27.50	-2.7
PUL	77.40	13	Pd	39 29.00	0.1
WIT	77.44	28	iPd	39 30.10	0.9
			e	39 37.00	
			ePP	42 23.00	
DBN	77.48	29	iPd	39 30.00	0.5
Z	20s	141.00um			7.3Msz
			i	39 48.00	
			i	42 01.00	
			iPP	42 28.00	
			iS	49 24.00	
LPB	77.61	125	Pc	39 30.80	-0.4
	0.9s	75.60nm			5.8mb
			i	39 44.00	
			SKS	49 24.00	
IRK	77.79	332	ePc	39 29.00	-2.2
			eS	49 26.00	
FLN	77.88	34	iPd	39 31.20	-0.5
	1.1s	99.40nm			5.8mb
GRR	78.00	34	iPd	39 32.10	-0.3
WTS	78.16	28	iPd	39 33.00	-0.2
			e	39 37.50	
			i	42 28.70	
SSC	78.17	34	iPd	39 32.60	-0.8
	1.3s	142.00nm			5.9mb
LPF	78.20	35	iPd	39 33.00	-0.5
UCC	78.22	30	Pd	39 32.80	-0.8
			PcP	39 42.80	
			e	42 28.00	
			sPP	42 53.00	
			S	49 30.00	
			SKS	49 49.00	
			SS	54 30.00	
STS	78.49	42	eP	39 34.50	-0.7
FKK	78.62	305	P	39 40.00	3.9
HEE	78.76	29	iPd	39 36.60	0.1
			i	39 43.80	
			ePP	42 33.00	
DOU	78.88	31	Pd-	39 36.90	-0.3
			S	49 38.00	
MEM	79.00	30	P	39 38.30	0.5
BNS	79.14	29	iPd	39 38.20	-0.4
MOY	79.44	333	Pd	39 41.00	0.8
MFF	79.69	35	iPd	39 41.20	-0.5
	1.1s	75.10nm			5.6mb
ZAK	79.71	331	Pd	39 42.20	0.6
			eS	49 52.60	
PTO	79.72	44	Pd	39 41.00	-0.9
			iS	49 44.00	
			SS	55 02.00	
			SSS	58 26.00	
WLF	79.82	30	ePd	39 43.00	0.7
			e	40 03.00	
			PP	42 49.00	
			SKS	49 52.00	
			e	54 45.00	
			SS	55 03.00	
BRN	79.96	25	ePd	39 43.00	0.0
TNS	80.21	28	iPd	39 44.60	0.1
			ePP	42 45.10	
			eS	49 50.00	
COI	80.49	44	P	39 46.00	-0.1
TPL	80.63	130	P	39 47.00	0.1
MTE	80.81	44	P	39 46.00	-1.9
CLL	80.85	25	iPd	39 47.10	-0.6
			i	39 54.00	
			i	40 03.00	
			e	40 16.00	
			PP	43 08.00	
			S	49 57.00	
			P'P'	06 35.00	
LOR	80.86	33	iPd	39 47.30	-0.6
SSF	80.88	33	iPd	39 47.40	-0.6
GWF	80.94	30	P	39 48.00	-0.3
TCF	80.95	34	iPd	39 47.50	-0.9
	1.4s	288.00nm			6.1mb
MOX	80.96	26	iPd-	39 48.00	-0.4
	1.6s	605.00nm			6.4mb
Z	15s	248.00um			7.7MszX

N	16s	215.00um			
AVF	81.03	33	iPd	39 47.80	-1.0
LBF	81.13	33	iPd	39 48.50	-0.9
MZF	81.16	34	iPd	39 48.60	-0.9
LIS	81.18	46	P	39 49.70	0.0
			iPcP	39 57.80	
			S	50 00.00	
			LR	02 12.00	
HAU	81.25	31	iPd	39 49.40	-0.6
	1.1s	94.90nm			5.7mb
CDF	81.27	30	iPd	39 49.70	-0.4
HOF	81.33	27	iPd	39 49.90	-0.4
	1.5s	477.00nm			6.3mb
SMF	81.35	33	iPd	39 49.60	-0.9
LFF	81.37	36	iPd	39 50.10	-0.5
ECH	81.39	30	P-	39 50.00	-0.7
			ePP	42 52.00	
			eS	50 00.00	
			eSS	55 20.00	
RJF	81.43	35	iPd	39 50.00	-0.9
NVS	81.45	344	Pd	39 50.20	-0.6
			eS	50 01.90	
BRG	81.53	25	iPd	39 50.90	-0.4
			e	40 22.00	
			PP	43 08.00	
			(SKS)	50 12.00	
			SS	55 22.00	
			P'P'	06 24.00	
			e	19 00.00	
BSF	81.56	31	iPd	39 51.10	-0.6
PJG	81.57	281	eP	39 53.00	0.9
GUMO	81.57	281	eP	39 53.00	0.9
	1.5s	1510.00nm			6.8mb
GRFO	81.63	27	iPd	39 52.20	0.3
GRF	81.63	27	iPd	39 52.20	0.3
	1.6s	1340.00nm			6.8mb
Z	14s	283.00um			7.8MszX
			iS	50 07.60	
BAF	81.64	31	P	39 51.50	-0.6
STU	81.69	29	iPd-	39 52.00	-0.2
	1.5s	306.00nm			6.1mb
Z	20s	163.00um			7.4Msz
PYM	81.71	34	P	39 51.80	-0.7
UER	81.75	337	Pd	39 52.00	-0.4
			iS	50 06.00	
ANT	81.76	131	iP	39 53.60	0.8
LPO	81.77	36	iPd	39 51.90	-0.8
	1.3s	91.30nm			5.7mb
LGR	81.79	39	iPd	39 53.60	0.7
			iPcP	39 59.60	
			iS	50 06.60	
CAF	81.96	35	iPd	39 52.70	-1.0
BJI	82.15	317	ePd-	39 54.00	-0.7
	2.3s	177.00nm			5.8mb
KSP	82.29	24	iPd	39 55.00	-0.3
BUB	82.32	30	Pd	39 54.80	-0.8
ELT	82.32	342	Pd	39 54.10	-1.3
			eS	50 11.00	
GUD	82.36	41	iP	39 56.00	0.0
SVE	82.37	357	ePd	39 54.00	-1.5
MOS	82.37	10	Pd	39 55.00	-0.6
			isP	40 00.00	
PRA	82.38	25	iPd	39 55.10	-0.7
			(SKS)	50 16.00	
WAR	82.39	20	eP	39 50.00	-5.7
			e	43 11.00	
			e	50 16.00	
ZUL	82.46	30	Pd	39 55.50	-0.8
PRU	82.49	25	iPd	39 56.50	0.2
			i	42 22.00	
			PP	43 07.00	
			(SKS)	50 15.00	
			i	00 11.00	
WET	82.67	27	iPd	39 56.50	-0.8
	1.8s	455.00nm			6.3mb
EPF	82.68	37	iPd	39 56.80	-0.7
	1.3s	131.00nm			5.9mb
SSB	82.74	33	ePd	39 57.10	-0.7
OBN	82.79	11	Pd	39 58.00	0.3
			iS	50 16 00	
ARU	82.84	358	eP	39 55.00	-3.0
			esP	40 01.20	
			eS	50 17.00	
KHC	82.91	26	iPd	39 58.60	0.0
	1.5s	338.00nm			6.3mb
Z	20s	101.00um			7.2Msz
N	18s	97.90um			

E	22s	127.00um			
			e	40 04.00	
			e	40 15.50	
			e	40 48.40	
			e	43 04.20	
			S	50 20.00	
FUR	82.95	28	iPd	39 59.20	0.4
	1.5s	581.00nm			6.5mb
			eS	49 29.00	
TOL	82.99	42	iPd	39 59.00	-0.1
	1.2s	15.00nm			5.0mb X
			i	40 18.00	
			iS	50 20.00	
MLS	83.08	37	e(P)d	39 57.80	-1.7
DIX	83.25	31	P	40 00.00	-0.7
ORO	83.85	31	P-	40 03.80	0.3
BHG	83.89	27	iPd	40 03.50	-0.1
KMR	84.03	26	iPd	40 04.00	-0.3
KRA	84.06	22	iPd	40 04.50	0.1
			iPcP	40 09.20	
			ePP	43 40.00	
			iS	50 29.00	
PNI	84.16	32	P	40 05.00	-0.1
TEN	84.24	57	Pd	40 06.90	1.3
			PP	43 23.40	
			S	50 44.40	
			SS	54 49.40	
MOA	84.25	26	iPd	40 05.20	-0.2
			i	40 12.00	
			e	41 08.00	
			e	04 10.00	
			P'P'	06 26.00	
			i	24 50.00	
SFS	84.42	45	iPd	40 05.00	-1.4
			i	40 40.00	
			iPP	44 42.00	
			iPPP	46 48.00	
			iS	50 34.00	
			iSP	51 33.00	
EBR	84.48	39	iP	40 06.70	0.1
			eS	50 33.70	
TIA	84.50	314	Pd	40 07.50	0.7
			PP	43 27.00	
			S	50 31.00	
VKA	84.56	25	iPd	40 07.00	0.0
			i	40 14.00	
			i	43 23.00	
			PP	43 28.00	
			(SKS)	50 28.00	
VIE	84.59	25	Pd	40 08.00	0.9
			e	21 00.00	
STV	84.73	32	P	40 07.20	-0.7
NIE	84.74	22	iPd	40 08.50	0.6
			i	40 25.50	
BTO	84.75	321	Pd	40 09.00	0.8
SAL	84.84	30	iPd	40 08.70	0.4
	1.0s	0.82nm			3.9mb X
			e(PP)	43 34.50	
VG1	84.86	31	P-	40 09.50	1.1
CTI	84.88	29	iPd	40 08.50	-0.2
	1.3s	0.59nm			3.7mb X
			ePP	43 23.00	
ROB	84.90	32	P	40 07.00	-1.8
LRG	84.98	33	iP	40 09.00	-0.1
PCN	84.98	31	P	40 11.00	2.0
LMR	85.14	33	iPd	40 09.60	-0.3
SOP	85.15	25	Pd	40 09.70	-0.2
			ipP	40 16.00	20kmX
			i	41 00.00	
			ePP	43 24.00	
MAL	85.18	44	iPd	40 11.00	0.8
	1.1s	26.50nm			5.4mb
			i	40 29.00	
			iS	50 37.00	
GEN	85.22	31	P	40 10.20	-0.1
CRT	85.25	43	iP	40 11.70	1.0
			i	41 14.20	
			i	42 17.00	
			i	43 34.10	
			e	46 35.50	
			i	50 48.00	
PVC	85.26	242	Pc	40 15.00	4.3
HNR	85.34	253	eP	40 16.00	4.8
LVV	85.38	20	Pd	40 11.00	0.0
			iS	50 40.00	
SLA	85.40	128	Pd	40 11.50	-0.1
SRO	85.59	24	eP	40 14.00	1.9

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				(SKS)	50	30.00						eS	51	24.00			E	22s	42.60um				
				ScS	50	47.00		SSR	89.28	23	eP	40	29.00	-1.1	ISK	94.82	20	P	40	53.00	-2.6
JOS	85.64	22	Pd	40	12.50	0.2	SAN	89.29	137	P	40	30.50	0.5	IST	94.82	20	P-	40	54.60	-1.0
			iPcP	40	18.00					epP	40	36.00	17kmX				S	51	32.00	
			i	40	46.00					ePP	44	15.00		GNZ	95.03	221	eP	41	05.00	8.7
			i	42	13.00					eSKS	50	55.00		JAY	95.15	271	eP	41	01.00	3.4
LJU	85.91	27	iPd	40	13.20	-0.5				eS	51	15.00		EDC	95.18	21	P	40	57.10	-0.2
	1.5s	1610.00nm			7.0mb					eSPP	53	10.00		HRT	95.20	19	P	40	56.50	-1.0
			i	40	18.50					eSSS	00	47.00		EZN	95.24	22	P	40	56.20	-1.4
			e	42	17.00					e	03	52.00		GRO	95.49	7	Pc	41	06.00	7.3
			ePP	43	31.50					e	08	14.00		KAS	95.62	16	P	40	59.30	-0.2
			eS	50	38.00		LNV	89.31	138	eP	40	30.00	0.0	CDU	95.63	319	Pd	40	59.00	-0.6
SSE	85.93	308	Pd	40	14.30	0.3	DUI	89.69	29	iPd	40	31.50	-0.5	BKT	95.71	20	P	40	58.00	-2.0
	1.8s	1440.00nm			6.9mb			1.5s		0.13nm			3.0mb X	NRN	95.76	345	iPd	41	00.00	-0.4
	Z 17s	84.40um			7.2MszX		NOU	89.72	240	Pd	40	34.50	2.3		8.0s	6360.00nm			7.1mb X	
	N 17s	55.80um					VRI	89.72	20	eP	40	31.00	-1.1	GPA	95.86	19	P	40	59.70	-0.8
	E 18s	41.30um								ePP	43	01.00		MAK	95.97	6	eP	40	58.00	-2.9
			sP	40	26.70		MOM	89.78	267	eP	40	34.00	1.2	SZP	96.17	299	eP	41	05.20	3.0
			PP	43	31.00		CMP	89.84	21	ePd	40	31.00	-1.7	ATH	96.17	25	eP	41	01.00	-0.9
			S	50	49.00		MLR	89.88	20	eP	40	32.00	-1.0				ePP	45	12.00	
TRI	85.93	28	iPd	40	13.30	-0.5				ePP	43	35.00					eSKS	51	44.00	
			iPP	43	39.00					eS	50	59.00					eS	52	32.00	
			ePPP	45	27.00		KOU	89.93	242	Pc	40	34.70	1.5	KVT	96.36	15	P	41	02.50	-0.3
			i	49	44.00		ANP	89.99	304	Pc	40	43.00	9.2	HKC	96.63	307	P	41	16.00	11.8
			iS	50	39.10					S	51	20.00					S	52	00.00	
ALI	85.93	41	iPc	40	14.50	0.6	WHN	90.28	312	Pd	40	35.50	0.6	BAA	96.77	131	P	41	12.00	7.7
			eS	50	43.50					iS	51	21.00					PP	45	05.30	
UZH	86.01	21	Pd	40	15.00	0.9	BAO	90.41	110	eP	40	35.50	-0.2				S	52	26.90	
			isP	40	21.00		XAN	90.46	318	Pd	40	36.50	0.7				PPS	54	27.70	
			iS	50	43.00		WMQ	90.61	337	Pd	40	37.20	0.9				LQ	08	27.70	
BUD	86.10	24	Pd	40	15.00	0.4				PP	44	14.50					LR	14	37.70	
			ePcP	40	20.00		HWA	90.80	303	P	40	35.30	-2.1	IZM	96.83	22	P	41	03.40	-1.6
			e	42	31.00					eS	51	20.00		ANTO	96.85	17	iPd	41	05.00	-0.1
			ePP	43	32.00		TCA	90.91	132	Pd	40	36.80	-0.9	BKR	96.87	9	Pd	41	04.60	-0.6
ALM	86.10	43	ePd	40	14.30	-0.5	SOB4	90.96	101	P	40	37.10	-1.1				iS	52	32.40	
	2.2s	4.20nm			4.2mb X					e	40	44.50		CNP	96.89	293	eP	41	14.00	8.6
			eS	44	28.80					e	40	51.50		BAG	96.91	299	P	41	08.00	2.3
SEM	86.31	344	Pd	40	15.10	-0.5	SOB	91.16	101	P	40	38.70	-0.4				e	44	19.00	
PRT	86.52	30	P-	40	16.50	-0.2				e	40	44.30		ALT	96.98	20	P-	41	04.50	-1.2
			ipP	40	45.00	109kmX				e	40	52.50		TAS	97.00	349	Pd	41	10.50	4.9
			i	42	34.00		TLB	91.25	19	eP	40	37.00	-2.1	LGP	97.08	294	eP	41	16.00	9.7
			iS	50	42.00		LZH	91.25	323	Pd	40	40.40	0.8	ANR	97.09	347	ePc	41	02.00	-4.1
NJ2	86.60	310	Pd	40	17.00	-0.3	BRT	91.37	28	P-	40	39.00	-0.7	LPA	97.32	130	ePc	41	12.00	5.2
			PP	43	43.00		SOB3	91.40	102	P	40	40.00	-0.2		Z 20s	95.00um			7.3Msz	
			iS	50	52.00					e	40	46.40					eSKS	51	44.00	
ZAG	86.60	26	ePd	40	17.50	0.4				e	40	56.30		KSH	97.66	344	P	41	09.00	0.2
			iS	51	06.10		SOF	91.74	23	P	40	41.00	-0.5				PP	45	04.00	
TLL	86.62	136	P	40	18.20	0.6	SKO	91.81	25	iPd	40	41.00	-0.8	GYA	97.67	315	P	41	09.00	0.0
FIR	86.67	30	P-	40	18.00	0.6				ipP	41	00.00	68kmX	MAN	97.83	297	eP	41	20.50	10.9
			i	40	27.00					iPP	44	25.50		KDS	98.05	66	iP	41	09.90	-0.8
			iS	51	06.00					i	44	51.00					e	45	11.40	
CVF	86.75	32	iPd	40	17.10	-0.8				e(SKS)	51	18.00					i	03	27.30	
	1.2s	118.00nm			6.0mb					iS	51	44.00		KRV	98.23	7	Pd	41	10.00	-1.2
BMR	87.21	21	eP	40	20.00	-0.1				iPS	52	58.00		YER	98.30	22	P	41	09.70	-1.9
RAB	87.60	262	ePc	40	22.00	-0.4				iSS	58	11.00		SHE	98.43	5	eP	41	05.00	-7.0
	N 17s	56.50um					ORI	91.83	29	P-	40	42.00	0.1	ERE	98.51	8	Pd	41	13.00	0.5
BLY	87.94	26	iP	40	23.60	0.0	PVL	91.84	22	P	40	41.00	-0.9	RDJ	98.58	113	Pc	41	12.00	-0.7
CLU	88.10	21	eP	40	20.00	-4.3	TIR	91.86	26	Pc	40	40.60	-1.4	BCK	98.61	20	P	41	11.50	-1.5
CJR	88.12	21	eP	40	20.80	-3.7	QZH	91.97	306	P	40	44.60	1.8	WEL	98.66	222	eP	41	19.00	6.3
TIM	88.33	23	eP	40	23.00	-2.5	LCI	92.12	28	P	40	43.00	-0.2				PP	45	14.00	
ALP	88.39	29	P+	40	31.20	5.4	ESA	92.24	259	Pd	40	49.20	5.2				PPP	46	38.00	
MNS	88.39	30	iPd	40	24.50	-1.3	SIM	92.25	15	eP	40	44.00	0.2				PS	54	22.00	
	0.9s	0.08nm			3.0mb X					esP	40	50.00					SS	59	10.00	
			e(PP)	43	51.50		OHR	92.38	25	iP	40	43.80	-0.7	BAK	98.76	4	Pc	41	20.00	6.5
DEV	88.69	22	P	40	27.00	-0.2				i	44	19.10		SAM	98.92	351	Pd	41	14.50	0.1
AQU	88.70	30	iPd	40	27.20	-0.2	GIB	92.71	32	P	40	45.00	-1.1	SYT	99.08	19	P	41	14.00	-1.3
	1.0s	0.11nm			3.1mb X		VAY	92.75	24	iP	40	45.20	-0.9	GAR	99.13	348	eP	41	15.00	-0.4
			i(PP)	43	53.80		DIM	92.97	22	eP	40	47.00	-0.1	GRS	99.37	7	P	41	15.20	-1.4
ROM	88.75	31	P	40	18.00	-9.5	RCI	93.23	30	P	41	03.20	14.8	DSH	99.79	349	Pd	41	18.10	-0.3
			S	51	06.00					e	49	10.20		DAV	100.00	289	Pdiff	41	27.00	7.5
CEN	88.82	135	eP	40	29.00	1.1				e	52	18.20		KAT	100.09	359	ePdiff	41	10.00	-9.4
MDB	88.86	21	eP	40	28.00	0.0				e	05	20.20		KUL	100.30	348	Pdiffd	41	20.70	0.3
RMP	88.90	30	iPd	40	28.00	-0.3	KDZ	93.28	22	P	40	49.00	0.4	KHO	100.42	347	ePdiff	41	13.00	-8.2
	1.1s	2.00nm			4.3mb X		MBO	93.49	68	eP	40	56.40	6.6	TAB	100.79	7	ePdiff	41	22.00	-0.8
			iPP	43	54.00					i	41	12.10		KMI	100.81	317	Pdiff	41	23.00	-0.2
			iS	51	20.00					e	41	42.30		ASH	101.29	358	ePdiff	41	24.00	-0.8
			iPS	52	28.00					i	44	36.40					eS	53	00.60	
BEO	88.93	24	P	40	28.50	0.2				i	44	39.90		LSA	102.17	329	Pdiff	41	30.80	1.3
			iPP	44	08.00					i	45	24.00		CTA	102.26	254	Pdiff	41	31.00	1.5
			iS	51	07.00		TLG	93.71	344	P	40	50.80	0.2				iPP	45	48.00	
GZR	89.10	22	eP	40	28.00	-1.3	PRZ	94.24	343	eP	40	53.00	-0.2				iSKS	52	08.00	
CFA	89.12	135	Pd	40	29.30	0.0	SOC	94.54	11	Pd	40	54.50	0.2	MAIO	102.89	357	Pdiff	41	30.80	-1.3
			S	51	08.80		PYA	94.54	9	Pc	40	54.60	0.2				i	45	17.70	
			SS	57	00.00		CTT	94.58	20	P	40	53.40	-1.2	PPR	102.91	295	ePdiff	41	42.40	9.9
			pP	40	00.00		FRU	94.67	346	ePd	40	55.00	0.0	KBL	103.70	348	ePdiff	41	35.50	-0.4
KIS	89.17	18	Pd	40	28.00	-1.4				iS	52	02.00		SHL	105.52	326	Pdiff	41	43.00	-1.1
			isP	40	33.00		PMG	94.76	262	eP	40	58.00	2.4				SKS	52	26.00	

08d 10h

DDI	105.91	340	Pdiff	41	48.60	3.0	NAI	136.96	28	ePKP	46	56.00	-2.0	KBN	4.18	92	Pn	35	59.60	0.9
HLW	105.99	22	ePdiff	41	46.00	0.1		1.5s	139.00nm					FIR	4.18	315	Pn-	36	02.50	3.8X
			eS	45	28.00		SNA	138.84	154	e(PKP)	46	50.00	-9.5				iSn	36	47.20	
EIL	107.22	19	Pdiff	41	56.50	5.1	WIN	142.98	72	iPKPd	47	03.00	-5.6	PRT	4.33	315	Pn	36	03.50	2.6
NHA	107.36	304	Pdiff	42	05.00	12.8		0.9s	26.10nm								iP*	36	12.00	
ISO	107.56	258	ePdiff	42	03.00	9.9		Z 17s	9.86um			6.6MszX					iPg	36	18.30	
			e	45	31.00		KRI	147.19	50	PKP-	47	15.00	-0.7				iSn	36	54.50	
KIC	107.61	65	ePdiff	41	51.90	-1.5				eP'P'	07	22.00		SKO	4.72	75	iPnc	36	06.00	-0.5
			e	46	02.80		MTD	148.27	47	PKPd	47	17.00	-0.3				iSn	37	02.60	
NDI	107.69	340	Pdiff	42	08.00	14.5				ePP	50	51.00		CGL	4.86	254	Pn	36	03.00	-5.6X
			ePP	45	28.00					eP'P'	07	22.00		CEY	4.90	353	iPn	36	08.10	-0.8
			ePPP	48	36.00		TET	148.82	44	iPKPd	47	20.00	1.9	ZAG	4.95	5	ePnc	36	08.60	-1.1
			eSS	05	44.00					e	50	52.00					eSn	37	04.30	
			eSSS	11	20.00		BUL	149.13	56	iPKPd	47	18.30	-0.4	TRI	4.95	347	Pn	36	08.00	-1.7
CHG	107.98	317	ePdiff	42	07.00	12.0		1.1s	296.00nm								iPgPg	36	29.20	
			eS	52	45.00			Z 22s	80.70um			7.5Msz					iSn	37	07.00	
MTN	109.02	269	ePdiff	42	06.00	6.4		N 21s	55.20um					CVF	5.12	291	Pn	36	10.50	-1.5
KUK	110.68	61	PKP	46	03.00	-4.5		E 22s	79.30um								Sn	37	08.50	
WB2	110.96	261	Pdiff	42	15.00	6.8	CLK	149.13	41	PKP-	47	19.00	0.3	LJU	5.19	354	iPnc	36	12.10	-0.9
			e	45	54.00					eP'P'	07	26.00					i	36	15.30	
WB2	110.96	261	PKP	46	06.20	-1.7	NPA	150.56	33	ePKP	47	22.00	1.2				i	36	38.90	
			i	46	15.00					e	47	27.00					eS	37	37.50	
			e	46	49.70					e	47	34.00		BEO	5.45	42	Pn	36	16.60	-0.1
			e	49	17.10					e	48	04.00					iPg	36	41.60	
WRA	110.97	261	Pdiff	42	17.00	8.7	CIR	151.60	52	PKP-	47	22.00	-0.3				iSn	37	26.00	
	1.0s	2.40nm								ePP	51	21.00					iSg	38	01.00	
WRA	110.97	261	PKPc	46	14.40	6.5	PRE	152.80	64	iPKPc	47	25.20	1.2	VAY	5.49	83	iPn	36	15.00	-2.3
	0.7s	3.40nm						1.0s	44.00nm					MBZ	5.56	222	iPn	36	16.50	-1.8
MKS	112.82	284	e(PKP)	46	18.00	6.4				i	47	46.50		SBS	5.58	226	iPn	36	18.00	-0.6
KUPT	112.98	277	e(PKP)	46	26.00	14.2	MAW	153.11	186	ePKP	47	23.00	0.1	CTI	5.81	334	Pn+	36	20.80	-1.1
TOO	113.34	240	ePKP	46	07.00	-5.0	GRM	155.87	81	iPKPd	+47	37.50	9.6	PCN	5.88	317	Pn+	36	25.00	2.3
ASP	113.53	259	ePKP	46	19.00	6.2		1.2s	46.90nm								iSn	37	36.20	
TAU	115.16	234	ePdiff	42	30.00	3.7		Z 22s	57.00um			7.4Msz		SAL	5.88	325	Pn+	36	22.00	-0.7
			e	47	20.00					i	51	48.00		GEN	5.89	309	Pn	36	25.60	2.7
			e	55	12.00		AVY	156.96	19	iPKPd	47	35.60	5.7				eSn	37	39.20	
			e	55	32.00			828 obs. associoted						ZGN	6.08	224	iPn	36	23.30	-2.3
			e	02	32.00									VG1	6.10	314	Pn	36	29.50	3.6X
			e	07	00.00			NOV 23, 1980 18h 34m 53.28± 0.08s						SSR	6.17	48	ePn	36	25.00	-1.8
			e	10	40.00			40.884 N ± 1.4km 15.325 E ± 1.0km						SOF	6.25	71	iPn	36	28.50	0.4
ADE	116.45	246	PKP	46	24.00	5.9		DEPTH = 8.0km (10 depth phases)						ROB	6.47	304	Pn	36	31.00	-0.2
SNG	116.53	308	ePdiff	42	44.00	10.9		6.1mb (54 obs.) 6.8Msz (19 obs.)									eSn	37	51.00	
			e	47	28.00			SOUTHERN ITALY					(390)	TIM	6.48	40	ePn	36	30.00	-1.2
			eS	53	16.00			Over 3000 people killed, obout						OGA	6.74	334	iPnd	36	33.60	-1.5
HYB	117.94	335	ePdiff	42	49.00	9.6		1900 missing, 7750 injured,						STV	6.79	302	Pn	36	37.00	1.2
HYB	117.94	335	ePKP	46	19.00	-2.3		250,000 homeless and extensive						SOP	6.85	7	Pn	36	35.00	-1.5
			eSKS	55	28.00			damage.									e	36	38.00	
POO	118.25	340	ePdiff	42	52.50	11.8								FRF	6.97	295	Pn	36	35.60	-2.6
WBN	120.37	261	ePKP	46	24.00	-1.7	OVO	0.71	266	Pg	35	07.50	0.1	LMR	7.00	293	Pn	36	35.80	-2.7
BSI	120.96	312	ePKP	46	40.50	13.4	SGG	0.87	305	Pg	35	11.70	1.4	MOA	7.00	354	iPnc	36	37.90	-0.7
PSI	121.10	306	iPKPc	46	25.20	-2.2	DUI	1.01	320	ePg	35	14.50	1.9				i	36	42.00	
	1.0s	27.60nm					BAI	1.19	78	Pg	35	16.00	0.4				S	38	00.00	
MDR	121.49	331	PKP	46	35.00	6.9	ORI	1.20	134	P*	35	14.50	-1.2	BHG	7.06	346	ePn	36	38.60	-0.7
GBA	121.87	335	PKPd	46	25.20	-3.6				iSg	35	33.00					i	36	41.60	
LEM	122.46	291	e(PKP)	46	18.50	-11.7	BRT	1.42	90	Pn+	35	17.00	-2.4	BUD	7.11	21	Pn	36	40.00	-0.1
			e(S)	54	02.00		ACI	1.67	156	Pn	35	21.00	-2.0				e	36	42.00	
PPI	122.64	303	ePKP	46	27.00	-3.3	AQU	2.06	316	Pn	35	30.60	2.0				e	36	52.00	
BCAO	123.58	46	ePKP	46	30.00	-2.2	RMP	2.18	296	Pn	35	30.50	0.1	ATH	7.12	111	iPnc	36	41.00	0.8
BNG	123.58	46	ePKP	46	48.50	16.3	LLI	2.45	187	Pn	35	33.50	-0.7				eSn	38	04.00	
KOD	125.01	333	ePKP	46	35.00	-0.3	ACL	2.46	198	Pn	35	31.00	-3.4X	PNI	7.13	307	Pn	36	41.00	0.6
			ePP	48	20.00		MNS	2.49	308	Pn	35	35.50	0.8	LRG	7.14	294	Pn	36	38.30	-2.2
			SKS	53	40.00		VPL	2.52	186	Pn	35	34.00	-1.1	ORO	7.15	314	Pn-	36	40.00	-0.8
			SKKS	54	16.00		MES	2.69	176	Pn	35	34.80	-2.8	KMR	7.22	354	iPnc	36	42.40	0.8
			SKKKS	55	21.00		OII	2.74	174	Pn	35	35.40	-2.9				i	36	44.00	
			PS	58	08.00		NOV	2.86	183	Pn	35	38.00	-2.0				i	37	07.00	
			SS	05	32.00		GIB	3.07	200	Pn-	35	42.20	-0.8	SRO	7.25	16	iPn	36	43.40	1.4
			SSS	09	52.00					e	36	18.70		GAP	7.27	337	ePn	36	41.90	-0.4
SBA	125.55	194	iPKP	46	33.30	-0.9	PRG	3.11	316	Pn	35	45.00	1.5				i	36	44.10	
			PP	48	37.00					iSn	36	33.00					i	36	56.30	
			PKS	50	00.00		VLO	3.20	96	Pnd	35	45.40	0.6	HRB	7.28	15	ePn	36	51.60	9.1X
			PS	58	33.00					()	36	08.30					eSn	38	20.00	
			e	02	34.00		TTG	3.33	61	ePn	35	45.00	-1.7	VIE	7.40	5	Pnc	36	44.00	-0.1
			SS	05	34.00		SDA	3.33	69	Pn	35	48.00	1.3				Pn	36	46.00	
			LQ	20	00.00					()	36	28.80		VKA	7.41	5	iPnc	36	43.30	-1.0
			LR	25	00.00		CAT	3.37	183	Pn	35	47.50	0.3				Pn	36	46.00	
ARO	126.39	15	ePKP	46	42.90	5.2	TIR	3.46	81	Pn	35	48.00	-0.5				e	39	00.00	
			i	48	30.70					()	36	06.50		DEV	7.44	45	Pnd	36	45.00	0.2
KLG	126.65	259	ePKP	46	43.00	5.3	PRO	3.52	330	Pn	35	50.30	1.1	DRA	7.58	57	Pn	36	47.00	0.3
AAE	127.84	21	ePKP	46	53.00	12.2	PUK	3.62	70	Pnc	35	50.00	-0.8	KDZ	7.59	81	Pn	36	47.00	0.1
DRV	128.94	211	PKP	46	40.50	-0.4	SRN	3.71	104	Pn	35	53 70	1.6	PVL	7.67	70	Pnd	36	47.00	-1.0
NWAO	130.83	259	ePKP	46	42.00	-3.6				()	36	42.70		DIX	7.75	315	Pnd	36	49.50	0.2
SPA	130.90	180	ePKPd	46	45.00	0.2				()	37	06.20		DIM	7.79	78	ePn	36	49.00	-0.7
	0.9s	35.30nm					SAR	3.77	37	iPn	35	54 00	1.0	FUR	7.83	340	iPnc	36	49.80	-0.4
	Z 20s	70.90um			7.4Msz		KMA	3.94	68	Pnd	35	55.30	0.0	ZUL	8.26	325	Pd	36	54.50	-1.8
MUN	131.14	260	ePKP	46	54.00	7.8	PHP	3.94	77	Pnc	35	54.70	-0.6	KHC	8.34	352	Pc	36	54.90	-2.4
	Z 22s	80.00um			7.4Msz					()	36	37.20					S	38	30.00	
	N 22s	200.00um					KKS	4.00	71	Pn	35	55.40	-0.8	CJR	8.35	43	ePd	36	57.30	-0.2
	E 22s	110.00um					OHR	4.15	85	iPn	35	57.50	-0.8				e	38	40.50	

23d 18h

CMP	8.35	55	eP	37	00.00	2.5				e	40	28.00		SFS	17.37	262	iPd	38	56.00	-1.5
BUB	8.38	327	P	36	55.00	-2.9				Sg	40	42.00					iPcP	39	36.00	
CLU	8.40	43	ePd	36	57.00	-1.1	BGF	10.66	306	P	37	29.50	0.2	COI	18.05	276	P	39	09.00	3.0X
MDB	8.42	48	eP	37	00.00	1.6	MZF	10.67	304	P	37	29.50	0.1	PTO	18.05	279	eP	39	03.00	-3.0
WET	8.44	349	iPd	36	55.30	-3.4X	YER	10.75	106	P-	37	29.60	-1.1				iS	42	09.00	
JOS	8.47	24	iPc	36	58.80	-0.2	MLS	10.82	286	eP	37	28.50	-3.0	SOC	18.25	73	Pc	39	08.40	0.0
	2.0s	570.00nm			6.5mb		IAS	10.83	50	eP	37	33.00	1.5	TBZ	18.46	82	iPc	39	11.00	0.0
EZN	8.47	94	P	36	56.20	-2.9	WLF	10.89	327	ePd	37	33.00	0.6	ECP	18.64	315	iPd	39	12.70	-0.4
CEI	8.51	35	P	37	00.00	0.4				S	39	43.00			7.0s	*******	nm			6.7mb X
BUC1	8.62	63	iP	37	04.00	2.8	TCF	10.93	304	P	37	33.40	0.3	LIS	18.92	271	Pc	39	18.30	1.7
BUC	8.69	62	eP	37	00.00	-2.1	RJF	11.02	298	P	37	33.60	-0.6				iPP	39	27.10	
BMR	8.96	38	eP	37	08.00	2.1	LPO	11.06	295	P	37	34.10	-0.7				S	42	23.00	
SPC	9.00	21	eP	37	09.30	2.7	EBR	11.24	275	eP	37	36.00	-1.2				LR	43	04.00	
STU	9.01	333	ePc	37	04.00	-2.5				eS	39	48.00		EKA	18.92	326	P	39	17.00	0.5
	1.0s	340.00nm			6.7mb		LSF	11.35	303	P	37	39.00	0.3		0.9s	303.00nm			5.5mb	
MLR	9.02	56	Pc	37	05.80	-1.0	EPF	11.36	286	P	37	36.20	-2.8	UPP	19.05	4	iPc	39	17.30	-0.8
PRU	9.12	357	P	37	05.20	-2.9	GPA	11.41	88	P	37	38.30	-1.3		1.0s	1400.00nm			6.2mb	
	1.0s	932.00nm			7.1mb X		LFF	11.44	296	P	37	40.20	0.3				i	39	24.00	25kmX
			S	38	49.80		ALT	11.49	94	P	37	41.30	0.5				i	39	29.30	
BAF	9.15	322	eP	37	06.40	-2.2	KIS	11.52	53	Pc	37	40.40	-0.6				iS	42	51.00	
UZH	9.20	30	Pd	37	09.40	0.3	BNS	11.56	333	P	37	40.30	-1.2	DKM	19.13	318	iPd	39	19.30	0.2
			iS	38	49.00			2.3s	19.20nm			5.0mb X			0.9s	610.00nm			5.8mb	
PRA	9.21	356	iPc	37	07.00	-2.2	BRN	11.63	354	ePc	37	44.00	1.6	KON	19.13	351	eP	39	18.00	-1.0
BSF	9.25	322	P	37	07.70	-2.2	MEM	11.69	329	P	37	45.60	2.4	DDK	19.23	318	eP	39	20.40	0.1
			Sn	38	48.60		DOU	11.89	324	P	37	46.40	0.5		1.3s	1180.00nm			6.0mb	
ISR	9.25	59	eP	37	09.00	-1.0				e	37	49.50		DLE	19.29	317	ePd	39	20.20	-0.8
GRF	9.27	343	iPc	37	07.20	-2.9				S	40	02.30			0.9s	380.00nm			5.7mb	
			eSn	38	47.20					PcP	43	30.00		HFS	19.30	358	P	39	20.00	-1.2
BUH	9.28	329	eP	37	07.70	-2.6	HEE	11.92	330	iPd	37	47.20	0.8		1.0s	802.00nm			5.9mb	
ECH	9.36	324	eP	37	08.90	-2.5	WAR	12.01	17	ePc	37	50.00	2.4	Z	12s	417.00um				
DMK	9.40	80	P	37	09.20	-2.8				e	38	04.00		EIL	19.57	119	P	39	23.00	-1.6
CDF	9.46	325	P	37	10.20	-2.6				e	38	16.00		DCN	19.69	317	eP	39	26.90	1.2
			Sn	38	52.40					e	38	24.00			1.1s	1140.00nm			6.1mb	
IZM	9.54	101	P	37	12.60	-1.3				e	40	00.00		DMU	19.79	319	eP	39	26.80	0.1
EDC	9.55	89	P	37	12.20	-1.9	ATE	12.13	286	eP	37	48.30	-1.0		1.2s	970.00nm			6.0mb	
HAU	9.58	321	P	37	12.10	-2.4	BCK	12.33	101	P-	37	51.50	-0.6	OBN	20.05	37	Pd	39	27.40	-2.0
			Sn	38	57.70		ZGT	12.40	82	P	37	52.00	-0.9				iS	43	04.00	
VRI	9.68	55	eP	37	15.00	-0.8	ALI	12.45	263	iPc	37	56.00	2.4	NAO	20.16	354	P	39	30.40	-0.1
KRA	9.73	18	eP	37	16.70	0.3				e	40	43.00			1.0s	389.00nm			5.7mb	
	2.0s	3190.00nm			7.4mb X		UCC	12.51	326	Pc+	37	54.90	0.7	NUR	20.48	13	P	39	31.20	-2.7
			i	37	18.20					e	38	00.60					i	39	32.20	4km
			i	37	21.20					S	40	21.00					i	39	47.00	
			i	37	27.20		MFF	12.56	302	P	37	57.00	2.0				eS	43	25.00	
			i	37	32.30		WTS	12.56	335	iPc	37	54.80	-0.1	BER	20.49	346	iP	39	34.40	0.5
			iS	39	17.00		MGN	12.76	84	P	37	55.80	-2.0	PYA	20.66	72	P	39	36.00	0.0
			e	56	43.20		HAM	13.11	346	iPd	38	05.40	3.2X				iS	43	26.00	
			i	56	47.70		DBN	13.20	332	iPd	38	07.00	3.5X	VAL	20.70	311	iPd-	39	35.80	-0.4
BRD	9.73	58	eP	37	17.00	0.4				e	39	06.00					S	43	25.00	
HOF	9.73	347	eP	37	13.80	-2.7				eS	40	49.00					LR	45	14.00	
GWF	9.76	329	eP	37	14.80	-2.1	WIT	13.31	337	eP	38	07.50	2.6	MOS	20.86	37	Pc	39	37.00	-0.8
ODB	9.84	56	eP	37	22.00	3.9X	SYT	13.34	100	P+	38	06.50	0.9				S	43	22.00	
KSP	9.98	4	eP	37	18.50	-1.5	ANTO	13.36	89	eP	38	06.00	0.2	PUL	21.09	21	eP	39	38.00	-2.2
			i	37	21.30			0.9s	26.00nm			5.3mb					isP	39	41.00	
BRG	10.04	355	iPd	37	17.90	-2.8				i	38	14.00					iS	43	27.00	
TLB	10.05	64	eP	37	08.00	-13.0X	SSC	13.39	310	P	38	06.60	0.6				isS	43	28.00	
MOX	10.10	346	iPd	37	19.30	-2.3	LGR	13.42	283	iPc	38	06.70	0.1	BKR	21.16	78	P	39	42.00	0.7
	1.2s	956.00nm			7.1mb X			1.6s	1.91nm			3.9mb X		LEN	21.55	81	Pc	39	48.00	2.8
Z	15s	779.00um								iPP	38	16.70		ERE	22.15	82	Pc	39	53.00	1.9
E	20s	1400.00um								iS	40	32.70		GRO	22.60	74	Pc	39	59.00	3.6X
SMF	10.10	309	P	37	21.30	-0.4	LPF	13.68	307	P	38	09.90	0.0				iS	44	07.00	
BAC	10.12	52	eP	37	23.00	1.2	FLN	13.69	310	P	38	11.50	1.5	SUF	22.81	13	iP	39	56.60	-0.7
LBF	10.20	310	P	37	21.30	-1.7	GRR	13.73	309	P	38	10.80	0.3	UME	23.15	6	P	40	00.40	-0.2
PYM	10.21	303	P	37	23.50	0.3	KAS	13.91	82	P-	38	14.20	1.1	GRS	23.67	83	Pd	40	07.00	0.9
			Pg	38	10.30		SIM	14.35	67	Pc	38	18.20	-0.5				isP	40	08.80	
			Sn	39	26.50					iS	40	55.40					iS	44	16.00	
			Sg	40	31.10		ALM	14.43	260	iPd	38	21.70	2.0	MAK	23.90	74	Pc	40	11.40	3.3X
CFR	10.33	61	eP	37	22.00	-2.7	N	12s	73.00um					TAB	24.03	87	eP	40	09.00	-0.6
ISK	10.39	85	P	37	23.70	-1.9				iPP	38	32.70					i	40	12.50	12km
BIR	10.42	55	eP	37	29.00	3.0X				iS	41	36.30		BHD	24.32	99	iPd	40	13.00	0.8
LOR	10.42	312	P	37	25.10	-1.0	GUD	14.77	275	iPd	38	21.70	-2.6	Z	10s	32.50um			6.1MszX	
CIN	10.43	104	eP	37	27.00	0.9	TOL	14.80	272	Pc	38	24.00	-0.7				iPP	40	43.00	
			i	37	32.00					i	38	38.00					iPPP	41	12.00	
			iSg	37	56.00					iS	41	13.00					iPcP	43	39.00	
AVF	10.47	308	P	37	27.20	0.6	COP	14.93	354	iPd	38	27.00	0.9				iS	44	29.00	
TNS	10.50	335	eP	37	24.60	-2.6		1.4s	949.00nm			6.1mb					i	51	43.00	
			eS	39	14.30					iS	41	33.00		KJF	24.45	13	iP	40	12.70	-0.5
SSF	10.51	310	P	37	27.60	0.3	CRT	15.16	262	iPc	38	32.10	2.7		1.4s	1600.00nm			6.5mb	
CLL	10.55	352	iP	37	24.90	-2.8				i	41	10.20					i	40	27.80	64kmX
			i	37	28.00					e	46	08.00					iS	44	35.20	
			i	37	37.00		KVT	15.65	82	P	38	36.50	0.7	SHE	25.15	80	Pc	40	22.00	1.8
			i	37	42.00		MAL	15.93	261	iPd	38	45.70	6.4X				iS	44	34.00	
			i	37	47.00					iS	41	24.00		BAK	26.15	80	P	40	35.00	5.5X
			i	37	55.00		HLW	17.05	125	iPc	38	50.00	-3.5X				S	44	54.00	
			Pg	38	23.00			3.0s	800.00nm			5 3mb		KIR	27.15	4	Pc	40	37.40	-1.1
			S	39	20.00					iS	43	20.00					i	40	40.40	11km
			i	39	38.00		MTE	17.35	276	P	38	59.00	1.6	SOD	27.26	10	P	40	39.80	0.3
			i	40	11.00					S	42	14.10					eS	45	16.00	

23d 18h

APA	28.48	14	Pd	40 52.00	1.5
			isP	40 54.00	
			iS	45 33.00	
TEN	28.61	254	Pc	40 52.70	0.7
			S	45 51.80	
TRO	28.88	3	iP	40 54.20	0.2
KEV	29.58	8	Pc	41 01.20	0.9
			eS	45 52.00	
SHD	31.07	85	eP	41 16.70	2.6
AKU	31.19	334	iP	41 16.30	1.7
	1.2s		3400.00nm		7.1mb X
Z	19s		100.00um		6.5Msz
			i	41 20.10	13km
KAT	31.19	79	Pd	41 18.00	3.1X
			eS	46 27.00	
REY	31.71	330	iP	41 20.20	1.0
ARU	31.91	46	eP	41 19.00	-2.1
			eS	46 35.00	
SHI	32.16	99	eP	41 24.00	0.3
SVE	33.09	46	ePd	41 31.00	-0.3
			isP	41 36.00	
			iS	46 48.00	
KHI	34.73	87	iPc	41 45.80	-0.3
TGI	35.65	88	eP	41 53.40	-0.5
BCAO	36.40	175	eP	41 56.50	-3.6X
	1.1s		66.00nm		5.4mb
BNG	36.40	175	iPd	41 56.80	-3.3X
	0.7s		24.90nm		5.1mb
KDS	37.12	228	iP	42 05.40	-0.7
KUK	37.29	206	P	42 06.50	-1.1
TDD	37.76	132	eP	42 12.40	0.9
AAE	37.93	140	e(P)	42 13.50	0.2
ARO	37.96	133	iPd	42 14.90	1.7
			ePP	43 52.00	
			eSS	50 59.20	
KBS	38.17	359	iP	42 15.70	1.4
ATA	38.22	132	eP	42 17.60	2.3
MBO	38.54	236	iP	42 20.40	2.4
			i	42 21.80	5km
			i	42 24.00	
			i	42 33.00	
			i	42 45.00	
			i	43 33.00	
KIC	38.77	213	eP	42 18.30	-1.7
DAG	38.82	348	iPc	42 19.00	-0.8
	1.2s		453.00nm		6.0mb
			iPPP	43 56.00	
			iS	48 20.00	
SAM	38.96	74	ePc	42 21.00	-0.5
			isP	42 24.00	
TAS	40.11	71	ePc	42 31.00	0.1
			eS	48 41.00	
DSH	40.65	75	Pd	42 37.00	1.6
GAR	41.62	74	eP	42 43.00	-0.5
			epP	42 43.60	2km
			eS	49 07.60	
KAAO	42.41	81	eP	42 50.30	0.2
	1.0s		42.00nm		5.1mb
KBL	42.41	81	iPc	42 50.00	-0.1
ANR	42.49	71	ePd	42 51.00	0.6
			eS	49 21.00	
KHE	42.73	9	ePd	42 54.00	2.1
			iS	49 17.00	
QUE	42.80	88	eP	42 53.10	-0.2
			eS	49 22.00	
KHO	43.07	76	P	42 55.70	0.2
			S	49 22.70	
FRU	43.41	67	ePd	42 58.00	0.1
			isP	43 01.50	
			iS	49 33.60	
GDH	45.04	332	iPd	43 11.50	0.8
	0.8s		313.00nm		6.3mb
			iPcP	45 00.00	
			iS	49 45.00	
TLG	45.19	65	Pc	43 12.00	-0.3
			epP	43 13.00	3km
			iS	49 58.00	
KSH	45.54	71	Pd	43 17.00	1.7
			iS	49 59.00	
NVS	45.85	48	P	43 16.60	-0.7
			iS	50 01.80	
PRZ	46.15	66	eP	43 21.00	0.9
NAI	46.29	150	eP	43 24.00	2.5
	3.0s		1600.00nm		6.5mb
BHK	49.34	81	P	43 47.00	2.0
			S	50 52.20	
AJM	50.43	88	P+	43 52.00	-1.3
DDI	51.10	81	P	44 07.90	9.4X
			S	51 30.60	
NDI	51.30	83	eP	44 01.50	1.6
Z	20s		62.40um		6.6Msz
N	20s		44.00um		
			eS	51 20.00	
WMQ	51.97	61	Pd	44 06.10	1.2
			PP	46 12.00	
UER	53.01	50	Pd	44 14.40	1.9
BOM	53.44	96	P+	44 14.80	-1.2
			PP	46 20.00	
			S	51 43.80	
			PPS	52 20.00	
			SS	56 00.00	
POO	54.44	96	P+	44 22.50	-0.9
			PP	46 24.00	
			PPP	47 36.50	
			PS	52 18.50	
			ScS	54 09.00	
GOA	56.29	99	P	44 34.70	-2.1
VAR	57.48	83	P-	44 45.20	0.0
			PcP	45 37.20	
			PP	46 52.20	
			PPP	48 14.20	
			PS	52 46.20	
			PPS	52 56.20	
			PPS	53 04.20	
			ScS	54 28.20	
			SS	56 30.20	
IRK	58.49	46	iPd	44 52.00	0.0
TIK	58.51	20	Pd	44 52.00	0.2
			epP	44 53.00	3km
			esP	44 56.00	
HYB	58.67	94	eP	44 50.00	-3.7X
			eS	52 56.00	
			eP'P'	14 42.00	
ZAK	58.79	48	eP	44 55.00	1.0
			eS	53 02.50	
KRI	58.93	164	P-	44 52.00	-3.5X
			eP'P'	14 44.00	
CLK	59.16	158	P-	44 54.00	-3.0
			eP'P'	14 42.00	
TET	59.21	159	eP	44 57.00	-0.2
	1.5s		0.62nm		3.5mb X
			e	45 40.00	186kmX
			e	47 09.00	
			e	48 22.00	
			e	10 12.00	
MTD	59.32	162	eP	44 52.00	-6.1X
NPA	59.95	153	eP	45 01.00	-1.3
			e	45 36.00	148kmX
GBA	60.18	98	Pd	45 00.60	-3.5X
	1.4s		131.00nm		5.9mb
BOK	60.39	83	P	45 04.20	-1.3
BOD	60.76	37	eP	45 07.00	-0.5
LSA	61.12	74	Pd	45 11.30	0.4
			S	53 21.30	
BUL	61.96	166	P-	45 14.00	-2.1
			eP'P'	14 28.00	
VIS	62.08	90	P	45 20.00	3.0X
			S	53 47.00	
MDV	62.25	305	P	45 17.50	-0.3
KOD	62.37	101	Pd	45 19.00	-0.2
			PcP	45 54.00	
			PP	47 40.00	
			PPP	49 10.00	
			PS	54 04.00	
			PPS	54 15.00	
			SSS	00 40.00	
			LQ	01 12.00	
			LR	03 58.00	
WNY	62.47	306	P	45 18.30	-1.0
MDR	62.63	97	P	45 20.70	0.1
			S	53 48.00	
CAL	63.07	83	P-	45 26.00	2.6
			S	53 54.00	
APH	63.14	306	P	45 24.00	0.3
SHL	63.96	78	P-	45 30.00	0.5
			S	54 06.00	
GPD	64.63	303	P	45 31.00	-2.5
YAK	64.71	28	Pd	45 33.20	-0.4
			isP	45 39.20	
			iS	54 09.70	
PRIN	65.15	303	P	45 37 00	0.2
LZH	66.53	62	Pd	45 45.70	-0.3
AVY	66.68	146	ePd	45 44.90	-2.1
KSR	67.27	169	iPd	45 48.50	-2.1
	0.7s		28.80nm		5.6mb
			e	53 14.30	
PRE	67.37	167	iPd	45 49.20	-1.9
	1.3s		138.00nm		6.0mb
Z	17s		52.00um		6.8MszX
			S	54 50.00	
BTO	67.95	55	Pd	45 53.00	-1.8
			S	54 43.00	
CNG	68.64	164	eP	45 59.00	0.1
	1.4s		500.00nm		6.5mb
			e	46 21.00	85kmX
INK	68.66	348	iP	45 57.00	-1.6
	1.0s		183.00nm		6.2mb
CLE	68.76	307	iPc	45 59.50	-0.2
			S	55 12.00	
MRG	68.88	304	iPc	46 04.00	3.6X
YKC	69.39	338	ePd	46 03.30	0.1
	0.8s		59.00nm		5.8mb
			pP	46 43.30	166kmX
YKA	69.42	338	P	46 03.90	0.5
AAM	69.55	309	eP	46 04.60	0.1
			S	55 14.40	
CDU	69.77	67	Pd	46 04.00	-2.1
			PP	48 47.00	
			S	55 03.00	
UTO	69.89	308	iPd	46 06.30	-0.2
FDF	70.35	273	eP	46 11.10	1.3
AN7	70.56	307	eP	46 10.00	-0.7
AN12	70.70	308	eP	46 10.90	-0.6
SEY	71.01	19	ePd	46 13.00	-0.1
			isP	46 17.90	
			eS	55 32.90	
ILT	71.02	6	Pd	46 13.80	0.8
			isP	46 17.60	
XAN	71.11	61	Pd	46 14.50	0.3
FYU	71.85	352	eP	46 18.90	0.9
BJI	72.05	52	Pd-	46 20.00	0.4
	1.8s		1370.00nm		6.7mb
			eS	55 44.00	
CHI	72.13	310	P	46 20.00	-0.1
KMI	72.16	72	P	46 21.00	0.2
			PP	49 09.00	
SOB3	72.45	240	P	46 24.90	2.6
			e	46 29.20	14km
			e	46 35.90	
			e	46 57.50	
			e	47 02.10	
MGD	72.94	22	ePd	46 26.00	1.5
			isP	46 30.00	
			iS	55 55.00	
IMA	73.04	355	eP	46 25.00	-0.2
TRN	73.09	270	eP	46 27.90	1.8
	1.2s		94.70nm		5.8mb
CHG	73.21	80	iPd	46 24.50	-2.3
	1.4s		336.00nm		6.2mb
Z	22s		31.50um		6.6Msz
N	22s		27.80um		
E	22s		33.30um		
			eS	55 58.00	
CHTO	73.21	80	iPc	46 24.50	-2.3
	0.9s		122.00nm		6.0mb
			i	46 47.00	86kmX
COL	73.73	353	iP	46 30.30	1.3
	1.3s		399.00nm		6.3mb
Z	19s		43.10um		6.8Msz
			eS	56 06.00	
FBA	73.73	353	iPd	46 30.10	1.1
ORT	73.87	304	eP	46 28.80	-1.6
GYA	74.15	69	Pd	46 33.30	1.0
			PP	49 17.30	
CN2	74.88	45	Pd	46 36.50	0.4
			S	56 16.00	
TIA	75.04	55	Pd	46 37.00	-0.2
CUM	75.31	271	iPc	46 47.80	8.8X
	1.0s		115.00nm		5.9mb
FVM	76.29	308	ePd	46 43.00	-1.3
Z	18s		48.00um		6.9Msz
WHN	76.87	61	Pd	46 48.00	0.4
PMR	77.10	352	ePd	46 49.10	0.8
Z	20s		30.00um		6.6Msz
CAR	77.37	273	eP	46 52.00	1.3
	1.5s		133.00nm		5.8mb
Z	20s		29.40um		6.6Msz
N	20s		20.70um		
E	20s		9.75um		
PCT	77.63	81	eP	46 51.20	-0.7
	1.0s		72.80nm		5.7mb

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SVW	78.09	356	eP	46	55.00	1.2				eS	58	08.00		IIC	94.47	301	eP	48	18.60	2.7
LD3	78.69	323	iPd	46	58.80	1.4	ANP	85.16	61	Pc	47	39.00	7.5X	III	95.60	300	eP	48	21.30	0.3
	1.5s	572.00nm			6.4mb					S	58	02.00		ZOBO	95.65	254	eP	48	20.20	-1.3
VLA	78.71	42	Pd	46	57.60	0.1	TATO	85.28	61	eP	47	36.00	4.0X		1.5s	6.50nm			4.9mb X	
NJ2	78.83	57	Pd	46	59.00	0.7		1.5s	2.00nm		4.1mb X			LPB	95.80	253	Pc	48	22.00	0.0
SIT	79.34	344	eP	47	03.10	2.5	SHK	85.39	47	eP	47	33.20	0.8				PP	52	16.00	
TOV	80.00	274	eP	47	07.00	2.0				eS	57	51.80					SKS	59	09.00	
BBJ	80.11	286	eP	47	06.30	0.8	MSA	85.81	317	P	47	36.80	1.8				e	20	20.00	
RLO	80.23	310	eP	47	05.50	-0.3	LUB	86.00	312	eP	47	36.00	0.4	CNP	96.02	68	ePc	48	22.70	0.1
			i	47	07.30	6km	MIZ	86.28	39	iPc	47	41.20	4.5X	LEM	96.15	94	ePc	48	23.00	-0.3
RXF	80.51	329	iP	47	08.10	0.8				S	58	16.00			1.6s	133.00nm			6.2mb	
YKM	80.74	330	iP	47	09.30	0.8	BOG	86.55	273	eP	47	38.50	-0.4				iS	52	35.00	
YSS	80.77	33	ePd	47	09.00	0.6				eS	58	21.00		PLP	97.17	69	eP	48	34.00	6.2X
			ipP	47	10.00	3km	PPI	86.56	94	eP	47	39.00	0.5	ARE	98.23	255	eP	48	30.00	-2.8
			iS	57	21.00			1.0s	56.60nm		5.7mb						ePP	52	30.00	
LGN	80.88	275	eP	47	09.00	-0.6	ABU	86.74	45	ePc	47	41.00	1.9				eS	59	20.00	
LDM	80.92	329	iP	47	10.50	1.1	HEN	86.81	64	eP	47	47.00	7.4X				ePS	01	36.00	
SSE	80.95	57	Pd	47	10.00	0.3	MAT	86.85	43	eP	47	40.00	0.4				eSS	06	22.00	
			PP	50	11.00			1.9s	584.00nm		6.5mb						e	16	00.00	
			S	57	13.00					eS	58	14.00		HUA	98.25	261	eP	48	36.50	3.4X
GZH	80.98	67	Pd	47	11.00	1.1	JCT	87.07	308	eP	47	43.00	2.2	CGP	98.83	71	eP	48	33.60	-1.6
			PP	50	24.00		Z	20s	78.00um		7.1Msz						eS	51	44.00	
BAO	81.17	241	eP	47	11.00	-0.2				eS	58	12.00		NNA	99.36	262	P	48	36.00	-1.6
KDC	81.20	353	eP	47	11.10	0.6	COR	87.16	332	iPd	47	42.00	1.1				eS	59	24.00	
SDV	81.21	274	eP	47	11.30	-0.3	KGM	87.17	90	eP	47	41.00	-0.5	PPH	100.31	70	ePdiff	48	43.20	1.2
PET	81.25	21	eP	47	10.00	-0.9		1.6s	548.00nm		6.6mb			DAV	100.40	71	Pdiff	48	48.00	5.6X
			esP	47	14.80		ALQ	87.50	316	eP	47	41.70	-1.3				eS	52	47.00	
			eS	57	10.00		Z	19s	69.40um		7.1Msz			LPA	101.06	233	ePdiff	48	46.00	1.1
SOR	81.39	293	Pd	47	12.00	-0.2	CHN	87.50	274	iP	47	45.00	1.8		Z 19s	45.10um			7.0Msz	
MSO	81.69	328	iPd	47	14.60	1.1	MSU	87.58	321	P	47	45.20	1.8	BAA	101.19	234	Pdiff	48	47.90	2.4X
	1.6s	560.00nm			6.4mb		DDR	87.77	42	eP	47	45.50	1.4				PP	52	59.90	
	Z 20s	59.30um			6.9Msz		TSK	88.07	42	eP	47	45.80	0.3				PS	01	58.90	
			PcP	47	43.50		BMN	88.29	326	iPd	47	47.80	1.1				SS	07	39.90	
			eS	57	29.60			1.5s	227.00nm		6.3mb						LR	22	29.90	
NEW	81.77	330	iPd	47	15.10	1.3	EUR	88.53	324	iP	47	48.50	0.5	CYA	101.88	243	Pdiff	48	40.50	-8.3X
	Z 18s	86.00um			7.2Msz			1.1s	16.40nm		5.2mb						PP	53	30.00	
	N 18s	45.00um					PIP	89.21	66	eP	47	53.00	1.9				SKS	59	00.00	
	E 18s	75.00um					MIN	90.17	329	iP	47	56.00	0.5				S	19	40.00	
			e	47	29.00	48kmX	WCN	90.29	327	P	47	57.80	1.6	ANT	102.07	249	ePdiff	48	52.00	2.4X
			e	47	34.00		WDC	90.33	329	iPd	47	56.10	0.0	VCA	103.70	244	Pdiffd	49	05.20	8.2X
UAV	81.77	274	eP	47	15.00	0.5				PKKP	05	29.00					SKS	59	54.00	
	0.6s	28.60nm			5.5mb					i	47	00.00		CFA	105.52	242	Pdiffc	49	12.00	7.1X
SNG	81.80	88	iPc	47	16.00	1.6	BAG	90.48	68	Pd	47	57.00	-0.3	GUMO	108.49	52	e(Pdif	49	19.50	1.2
	1.4s	15.00nm			4.9mb X					eS	57	34.00		GUA	108.56	52	e(Pdif	49	19.30	0.6
			eS	57	20.00		FHC	90.69	330	iP	47	59.30	1.5	KUPT	110.38	86	e(PKP)	53	24.50	-3.5X
BCM	81.90	326	iPd	47	15.90	1.2	ORV	90.80	328	iPd	47	58.30	0.0	NVL	111.37	181	ePdiff	49	37.00	7.1X
			e(pP)	47	54.80	156kmX				PKKP	05	27.00		MAW	113.96	162	ePKP	53	34.00	0.7
HKC	82.07	68	P	47	18.00	2.4	PSO	91.24	273	eP	48	01.00	-0.1	MEK	116.47	103	ePKP	53	39.00	-0.4
			pP	47	36.00	65kmX	LPS	91.37	290	eP	48	02.50	1.2	MUN	117.73	109	ePKP	53	42.00	0.4
			pPP	50	46.00			1.2s	141.00nm		6.2mb			JAY	117.84	67	e(PKP)	53	41.00	-1.4
			()	52	18.00					eS	58	50.00		NWAO	118.97	110	ePKP	53	43.00	-0.9
			S	57	32.00		JAS	91.73	327	iPd	48	03.80	1.2	WBN	122.19	98	ePKP	53	50.00	-0.3
YMC	82.10	325	P	47	17.40	1.6				i	48	07.00	10km	WRA	124.55	87	PKPd	53	54.00	-1.0
SKR	82.58	24	Pc	47	20.00	2.1				PKKP	05	26.00			1.5s	98.30nm				
TSI	82.61	92	ePc	47	10.80	-7.8X	TUC	91.81	317	ePd	48	04.00	0.8	WB2	124.55	87	ePKP	53	52.50	-2.5X
	0.9s	326.00nm			6.5mb		MAN	92.02	69	eP	48	05.50	1.3				e	53	54.20	
BDW	83.00	323	iPd	47	21.00	0.5				eS	51	52.00					ePP	55	35.10	
	1.5s	446.00nm			6.4mb		FRI	92.23	326	iP	48	05.80	0.9	LML	125.22	65	ePKP	53	57.00	0.6
GLD	83.21	318	P	47	23.20	1.6				i	48	10.00	13km	ASP	126.36	91	ePKP	53	57.00	-1.5
	Z 18s	73.00um			7.1Msz					PKKP	05	25.00		RAB	126.80	58	ePKP	54	00.00	0.4
SAP	83.29	37	eP	47	23.00	1.4	BKS	92.53	328	eP	48	07.10	0.8	PMG	127.22	67	iPKPd	-54	02.00	1.7
			eS	57	42.00			2.0s	710.00nm		6.7mb				1.0s	92.00nm				
GOL	83.33	318	iP	47	23.20	0.9		Z 20s	100.00um		7.3Msz				Z 20s	16.30um			6.7Msz	
	1.5s	402.00nm			6.4mb			N 20s	24.00um					LMG	127.56	66	ePKP	54	02.00	0.9
	Z 18s	48.00um			6.9Msz			E 20s	93.00um					ISQ	128.94	84	ePKP	54	05.00	1.5
QZH	83.37	63	Pd	47	22.50	0.2				e	48	50.00	170kmX	SPA	130.69	180	iPKPd	54	06.00	0.5
			PP	50	43.00		ARN	92.69	327	eP	48	06.00	-1.1		1.0s	45.00nm				
			eS	57	40.00		MHC	92.75	327	iPd	48	08.80	1.4		Z 20s	22.00um			6.9Msz	
PSI	83.40	92	ePc	47	21.10	-1.6				e	48	13.00	13km	CTA	133.59	79	PKP	54	03.60	-8.7X
	1.4s	491.00nm			6.5mb					PKKP	05	24.00					i	54	12.50	
			i	47	23.80	9km	OAQ	93.04	272	iPd	48	13.00	3.6X				iPP	56	40.00	
GAL	83.48	279	iP	47	10.50	-12.5X				iS	59	18.00					iPKS	57	42.00	
RDJ	83.53	232	Pd	47	24.40	1.4	SAO	93.16	327	eP	48	10.00	0.8	ADE	135.61	101	PKPc	54	17.50	1.7
			ePP	50	38.00		GLA	93.25	320	iP	48	10.30	0.6	HNR	135.73	55	ePKP	54	18.00	1.5
			eS	57	48.40		NCE	93.33	272	eP	48	13.50	2.6				eS	07	08.00	
PGC	83.69	334	eP	47	24.40	0.8	PRI	93.36	326	iP	48	11.90	1.6	DRV	140.35	149	PKP	54	22.00	-1.4
IPM	83.78	89	ePd	47	24.10	-0.5				PKKP	05	23.00		SBA	141.10	171	iPKP	54	27.00	2.4X
	1.1s	91.80nm			5.9mb		PPR	93.63	74	ePc	48	14.30	2.7				PP	57	24.00	
SDN	84.08	358	eP	47	27.20	1.8		1.2s	95.00nm		6.1mb						e	33	00.00	
KUR	84.31	32	Pc	47	30.40	3.6X	PAS	93.93	323	eP	48	13.00	0.2	TOO	141.67	102	ePKP	54	22.00	-4.8X
			iS	57	55.00			2.0s	399.00nm		6.4mb			CAN	143.46	97	ePKP	54	26.60	-3.4X
GMW	84.42	333	P	47	29.00	1.6		Z 20s	40.00um		6.9Msz						ePP	57	46.70	
LON	84.76	332	iPd	47	30.40	1.2		N 20s	39.00um					TAU	144.59	110	ePKP	54	28.00	-3.6X
	1.8s	1300.00nm			6.9mb			E 20s	45.00um								e	16	44.00	
SMY	84.97	13	e(P)	47	31.70	1.8				ePP	52	03.00		KOU	146.76	62	PKPc	54	36.10	0.3
	Z 18s	20.00um			6.5Msz					eS	59	48.00		PVC	147.27	53	PKPc	54	35.50	-1.2
NHA	85.02	78	P	47	32.00	1.2				eP'P'	13	29.00		AMN	149.24	311	iPKP	54	46.10	6.3X

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	1.5s	1440.00nm					YAM	1.99	259	P-	17 59.70	1.8		MAI	6.75	244	P	19 07.00	2.0
RKT	149.42	296	iPKP	54 46.50	6.5X					S	18 24.20						eS	20 23.10	
	1.3s	570.00nm					FKS	2.06	245	P	17 58.70	-0.1		KYO	6.75	240	P	19 07.50	2.5
NOU	149.42	62	PKPd	54 40.50	0.5					eS	18 28.00						iS	20 21.80	
OTP	149.49	311	iPKP	54 46.70	6.5X		HAC	2.13	332	P	18 01.60	1.8		NAR	6.88	237	P	19 11.00	4.2X
	1.5s	920.00nm								iS	18 26.60			OSK	7.04	237	P	19 11.00	2.0
NAE	149.58	310	iPKP	54 46.90	6.6X		SKH	2.25	276	P	18 01.00	-0.5					S	20 30.00	
	1.5s	1040.00nm					YAMJ	2.25	259	P+	18 01.30	-0.2		OWA	7.04	232	P	19 10.00	0.9
FRT	149.60	311	iPKP	54 46.90	6.6X		ONA	2.29	223	P	18 01.00	-1.0					S	20 20.90	
	1.5s	680.00nm								iS	18 26.80			TYK	7.12	247	P-	19 11.60	1.5
TPT	150.23	325	iPKP	54 48.80	7.5X		AKI	2.38	298	P	18 04.00	0.7					iS	20 36.60	
	1.5s	1600.00nm								S	18 36.00			WKYJ	7.32	235	P	19 12.00	-1.1
RUV	150.31	325	iPKP	54 48.80	7.3X		SHR	2.57	234	P	18 05.00	-1.1		TOTJ	7.54	248	P	19 17.00	0.9
	1.5s	960.00nm					AOM	2.68	324	P	18 10.00	2.4		HIM	7.56	242	P	19 23.00	6.7X
PMO	150.37	326	iPKP	54 49.00	7.5X		AOMJ	2.69	316	P	18 10.00	2.2					S	21 00.90	
	1.5s	960.00nm					MIT	2.94	220	P+	18 12.90	1.5		KUR	7.57	28	Pc	19 11.40	-5.0X
VAH	150.46	325	iPKP	54 49.00	7.3X					eS	18 49.00						eS	20 36.00	
	1.5s	800.00nm					UTS	3.16	229	P	18 14.00	-0.4		WKY	7.59	237	P	19 16.70	-0.1
AFI	152.42	15	PKP	54 44.00	-0.7		NIIJ	3.34	246	P	18 18.00	1.0					eS	20 43.50	
			PP	58 29.00			URA	3.51	359	P	18 19.00	-0.4		TOT	7.59	248	P	19 17.90	1.1
			PPP	02 10.00						eS	19 02.00			SUM	7.70	238	P	19 19.00	0.7
			SKSP	08 36.00			KMU	3.59	2	eP	18 17.90	-2.6		SHJ	7.73	230	P	19 19.00	0.4
			SKKS	11 17.00			AIK	3.67	262	P	18 25.60	3.9X					eS	20 44.00	
			SSP	18 44.00						eS	19 18.80			SAI	7.94	255	P+	19 20.70	-0.9
			SSS	23 25.00			KMG	3.71	229	P	18 22.00	-0.3					S	20 57.50	
			LQ	35 00.00						eS	19 13.00			TKS	8.08	238	P	19 21.50	-2.0
PPN	153.28	326	ePKP	54 51.00	5.3X		MAE	3.74	234	P	18 23.00	0.2					()	21 03.50	
	1.5s	330.00nm								S	19 08.90			OKA	8.19	244	P-	19 25.90	0.9
PPT	153.37	326	ePKP	54 51.00	5.1X		TOK	3.84	221	P	18 22.00	-2.2					S	20 59.40	
	1.5s	520.00nm								eS	19 09.00			YONJ	8.26	248	P	19 27.00	1.0
TVO	153.42	326	iPKP	54 50.80	4.7X		DDR	3.93	229	eP	18 23.80	-1.6		TKM	8.28	241	P	19 25.50	-0.8
	1.5s	720.00nm					TKD	3.94	248	P	18 27.80	2.3					eS	21 07.00	
AFR	153.43	327	ePKP	54 51.00	5.0X		MRRJ	4.00	341	P	18 27.00	0.6		YSS	8.36	359	Pc	19 24.00	-3.4X
	1.5s	520.00nm					CHJJ	4.01	231	P	18 25.00	-1.6					iS	20 57.00	
PAE	153.46	326	ePKP	54 51.00	5.0X		NGN	4.18	243	P	18 30.50	1.5		MTS	8.43	251	P	19 29.00	0.7
	1.5s	560.00nm								iS	19 23.70						S	21 03.10	
MSZ	159.57	110	ePKP	55 04.00	11.1X		MAT	4.23	242	P	18 30.00	0.3		TKSJ	8.48	239	P	19 28.00	-1.1
			e	55 37.00						S	19 23.00			MRT	8.85	235	P	19 35.00	0.9
RAR	159.95	347	ePKP	55 01.00	7.0X		TMS	4.44	214	P	18 31.00	-1.5					S	21 22.00	
RHP	161.13	108	iPKP	54 56.50	1.8		KUS	4.48	15	P	18 31.00	-2.1		KOC	9.08	239	P	19 41.00	3.7X
			PP	55 44.00						eS	19 19.00						S	21 32.30	
			e	56 19.00			MTMJ	4.49	244	P	18 35.00	1.6		SHK	9.14	246	ePd	19 38.40	0.2
			e	59 31.00			KOF	4.53	230	P	18 37.00	3.1X		HIR	9.40	246	P	19 43.00	1.3
COB	162.94	98	iPKP	54 50.80	-5.7X					eS	19 30.00			HMD	9.41	250	P	19 41.00	-0.9
KRP	164.42	85	iPKP	54 54.80	-3.2X		SAP	4.55	346	P	18 35.00	1.0					S	21 34.00	
WEL	164.49	98	PKP	54 54.00	-4.0X					eS	19 27.00			MTY	9.43	242	P	19 41.00	-1.1
			PP	58 56.00			MTM	4.55	240	P	18 40.00	5.8X					eS	21 30.00	
			PPP	03 32.00			SUT	4.58	335	P	18 39.00	4.5X		UWA	9.93	240	P	19 47.00	-2.0
			PcPP'	05 05.00			KUSJ	4.67	17	P	18 32.00	-3.7X		ASZ	9.94	236	P	19 53.00	4.0X
			SKKS	07 34.00			AJI	4.68	221	P	18 37.00	1.1					eS	21 42.00	
			SKSP	12 25.00						S	19 33.50			SHNJ	10.47	248	P	19 59.00	2.6
			SS	20 30.00			MIS	4.72	223	P	18 41.50	5.1X		OIT	10.57	243	P	20 01.00	3.3X
			SSS	27 06.00						eS	19 39.00						eS	22 01.00	
GNZ	166.50	86	iPKP	55 04.50	4.8X		KTJ	4.77	220	P	18 34.20	-2.9X		SHN	10.68	248	P-	19 59.40	0.2
S.D. = 1.4			on 432 of 504 obs.				OSH	4.77	217	P	18 35.80	-1.4					S	22 11.90	
							WAJ	4.85	257	P	18 40.40	2.0		NOB	10.90	240	P	20 06.00	3.8X
JAN 18, 1981 18h 17m 26.03± 0.25s										eS	19 34.00						eS	22 11.00	
38.649 N ± 1.4km 142.836 E ± 2.0km							TOY	4.87	248	P	18 41.00	2.5		ASJ	11.15	242	P-	20 05.10	-0.6
DEPTH = 48.2 ± 2.1 km							IIDJ	5.05	233	P	18 41.00	-0.3					eS	22 14.00	
6.2mb (66 obs.) 7.0Msz (11 obs.)							IID	5.08	233	P-	18 47.80	6.2X		FKK	11.27	247	P	20 10.00	2.8
NEAR EAST COAST OF HONSHU, JAPAN(228)										eS	19 44.00						eS	22 19.00	
Felt (IV JMA) at Miyako, Sendai							TKY	5.09	242	P	18 46.30	4.4X		KUM	11.44	243	P-	20 11.50	2.0
and Morioka; (III JMA) at										eS	19 40.70						eS	22 24.00	
Ofunoto, Ishinomaki, Fukushimo,							SHZ	5.11	225	P	18 44.00	2.0		MYZ	11.48	238	P	20 11.00	0.9
Hachinohe, Onahama, Akita,										S	19 42.00						eS	22 38.00	
Shirakawo, Sakata and							NEM	5.12	23	P	18 38.00	-4.1X		SAG	11.49	246	P	20 09.00	-1.2
Utsunomiya; (II JMA) at Urakawa,										eS	19 33.00						eS	22 31.00	
Maeboshi, Tokyo, Tateyama,							ASA	5.13	356	P	18 42.00	-0.3		KUMJ	11.52	242	P	20 12.00	1.5
Yokohama and Kofu. Local tsunami										eS	19 51.00			CBI	11.54	183	P	20 06.00	-4.8X
generated with maximum wave							KAN	5.34	249	P	18 47.00	1.7					eS	22 12.00	
heights (peak to trough) 20 cm.							ASAJ	5.47	359	P	18 46.00	-1.0		IZU	11.77	252	P	20 15.00	1.0
at Urakawa and Ofunoto, 15 cm.							HMM	5.69	228	P	18 51.00	0.9		UNZ	11.79	244	P	20 13.50	-0.8
at Aikawa, 14 cm. at Hachinohe,										iS	20 04.20			NGS	12.08	245	P	20 18.00	0.0
13 cm. at Hiroo and 12 cm. at							TK04	5.84	225	P	18 52.00	-0.1		KAG	12.28	239	P	20 20.00	-0.7
Miyako and Ofunoto.							GIF	5.84	238	P	18 52.00	-0.3					eS	22 45.00	
										eS	20 03.00			KAGJ	12.30	236	P	20 20.00	-1.1
OFU	0.97	296	P-	17 42.30	-1.1		NAG	5.85	235	P	18 53.00	0.7		TAJ	12.53	234	P	20 23.00	-1.0
			iS	17 56.60						eS	20 12.00						eS	22 53.00	
OFUJ	1.01	296	P	17 42.00	-2.0		FUK	5.87	246	P	18 53.00	0.4		FKJ	12.83	247	P	20 32.00	3.9X
MIY	1.20	326	P-	17 44.60	-2.1					S	20 08.90						eS	23 03.00	
			S	18 02.90			HJJ	6.06	205	P	18 54.00	-1.4		CN2	14.06	297	P	20 45.00	0.9
ISN	1.22	260	P-	17 46.00	-1.0					S	20 04.80			NZJ	15.11	231	P	20 55.00	-2.8
			iS	18 01.60			TK02	6.23	223	P	18 56.00	-1.5					eS	23 49.00	
SEN	1.57	256	P+	17 51.20	-0.7		HIK	6.26	239	P	19 01.30	3.2X		SKR	15.25	34	eP	20 59.00	-0.6
			S	18 10.40						eS	20 22.40						eS	23 39.60	
MRK	1.67	309	P	17 53.00	-0.3		TSRJ	6.30	243	P	18 58.00	-0.7		MVI	16.10	221	P	21 23.20	12.7X
			eS	18 18.00			TK01	6.46	223	P	18 59.00	-1.6					eS	24 06.00	

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NGO	17.33	230	P	21 22.50	-3.5X
			eS	24 34.50	
NAH	17.78	230	P	21 28.00	-3.6X
			eS	24 49.70	
PET	18.05	32	eP	21 38.00	3.3X
SSE	19.27	254	P	21 46.00	-3.5X
TIA	20.54	271	Pc	22 00.00	-2.9X
NJ2	20.61	259	Pc	22 00.00	-3.6X
BJI	20.64	282	Pc	22 01.00	-2.9X
MGD	22.06	11	eP	22 03.00	-14.9X
			isP	22 08.00	
			eS	26 22.00	
TATO	22.62	239	eP	22 22.00	-1.7
HWA	23.22	237	P	22 26.20	-3.4X
			eS	26 36.50	
TCU	23.72	239	P	22 22.10	-12.3X
			S	28 07.30	
QZH	24.63	243	Pc	22 41.00	-2.3
WHN	24.73	260	Pc	22 43.00	-1.2
SEY	24.97	10	Pd	22 44.40	-1.8
GUA	25.08	175	e(P)	22 53.00	5.4X
	1.9s	3960.00nm			6.6mb
			e(S)	27 14.00	
SMY	25.74	47	eP	22 58.50	5.0X
XAN	27.61	271	P	23 09.00	-1.8
SZP	28.70	229	iPc	23 22.00	1.4
	1.0s	36.00nm			5.0mb X
			iS	28 26.00	
HKC	29.43	245	P	23 28.00	0.8
BAG	29.52	228	eP	23 28.00	-0.3
			eS	28 21.00	
GZH	29.53	247	Pc	23 27.30	-0.8
IRK	29.87	310	Pc	23 29.00	-2.0
			eS	28 20.00	
ZAK	30.19	306	Pc	23 33.00	-0.7
LGP	30.52	219	ePc	23 39.80	2.8
MAN	30.65	225	iP	23 38.00	-0.1
QCP	30.67	225	eP	23 26.10	-12.1X
LZH	30.94	278	Pc	23 40.00	-0.7
			S	28 33.00	
ADK	30.99	51	eP	23 44.70	4.0X
PLP	31.67	215	ePc	23 45.50	-1.6
GYA	32.62	259	Pc	23 55.00	-0.4
			S	29 05.00	
CDU	32.73	268	P	23 56.00	-0.2
			eS	29 06.00	
TIK	33.82	352	eP	24 03.00	-2.2
			eS	29 19.00	
CGP	34.21	213	ePc	24 06.20	-2.9X
DAV	35.08	211	P	24 15.00	-1.5
BGV	35.83	252	P	23 23.00	-59.9X
PPR	35.96	223	ePd	25 24.50	60.5X
ILT	36.13	24	Pc	24 21.60	-3.3X
			eS	30 03.00	
KMI	36.33	260	Pc	24 25.50	-1.9
			S	30 02.00	
NHA	39.81	238	P	24 57.70	1.4
			eS	31 00.00	
MOM	40.71	173	eP	25 03.00	-0.6
ELT	40.85	310	Pc	25 03.90	-0.5
			eS	31 15.00	
JAY	41.01	183	ePc	25 06.70	0.6
	1.0s	62.30nm			5.3mb
WMQ	41.14	295	Pc	25 07.00	0.0
			iS	31 20.00	
NRI	42.12	334	Pc	25 12.00	-2.6
			iS	31 35.00	
CHTO	42.79	255	eP	25 20.00	-0.7
LSA	43.20	274	Pc	25 23.20	-1.3
			S	31 48.00	
TTA	43.45	36	e(P)	25 27.40	1.7
RAB	43.49	166	P	25 25.00	-1.4
SVW	43.54	38	eP	25 27.10	0.7
MDG	43.76	176	eP	25 30.00	1.5
WAB	43.93	179	eP	25 30.00	-0.2
AAI	44.25	201	ePc	25 34.20	1.7
	0.8s	115.00nm			5.7mb
IMA	44.73	31	eP	25 36.00	0.0
SEM	44.87	306	Pc	25 35.90	-1.3
			eS	32 09.40	
KDC	45.20	43	eP	25 39.30	-0.4
BKB	46.39	217	ePd	25 52.70	3.2X
PMR	46.66	38	eP	25 50.20	-0.9
	1.1s	281.00nm			6.1mb
FBA	47.14	33	eP	25 54.80	-0.1
PMG	47.98	174	eP	26 02.00	0.0
	Z 20s	5.50um			5.5MszX
PRZ	48.05	296	eP	26 02.00	-0.6
			eS	33 02.00	
ESA	48.71	170	P	26 08.50	0.9
MKS	48.72	212	ePc	26 10.50	2.8
NRN	50.09	296	eP	26 19.00	0.6
			eS	33 35.00	
HNR	50.42	158	eP	26 18.00	-2.7
FRU	50.58	298	ePc	26 20.00	-1.8
			iS	33 27.00	
KSH	50.81	293	Pc	26 24.00	0.3
IPM	50.87	239	iPd	26 23.50	-0.7
	1.5s	46.00nm			5.3mb
KGM	51.29	235	ePd	26 26.50	-0.9
	1.4s	327.00nm			6.2mb
KHE	51.30	348	ePc	26 26.00	-0.8
			eS	33 43.00	
KUPT	51.76	204	ePd	26 42.00	11.1X
MTN	52.38	194	eP	26 33.00	-2.5
INK	52.45	28	eP	26 34.00	-1.5
	1.0s	184.00nm			6.1mb
MUR	52.70	293	P	26 38.00	-0.4
ANR	52.90	296	Pc	26 39.30	0.0
			iS	34 11.00	
TSI	53.32	240	e(P)	26 43.00	0.4
TRT	53.99	218	ePc	26 47.80	0.4
BSI	54.15	245	e(P)	26 48.00	-0.7
NDI	54.48	280	P	26 49.50	-1.5
			iS	34 27.00	
MBC	54.66	17	eP	26 49.00	-2.7
	1.0s	281.00nm			6.2mb
SVE	54.70	318	Pc	26 51.60	-0.7
			ipP	26 52.00	1kmX
			iS	34 28.00	
KHO	54.79	293	Pc	26 52.90	-0.6
TAS	54.81	298	Pc	26 52.00	-1.4
MNL	55.04	287	eP	26 56.00	0.9
PPI	55.04	235	eP	26 56.00	0.8
NIL	55.19	288	eP	26 55.50	-0.7
KNA	55.69	196	eP	26 58.00	-1.8
KUL	55.90	294	Pc	27 00.30	-0.9
DSH	56.31	295	Pc	27 03.00	-1.3
			iS	34 50.50	
PSH	56.41	289	eP	27 04.00	-1.0
SAM	57.09	297	Pc	27 08.20	-1.6
			iS	35 05.20	
KAAO	57.90	291	eP	27 14.40	-1.3
ALE	58.45	4	eP	27 17.00	-1.7
	1.3s	525.00nm			6.5mb
CTA	58.51	176	P	27 21.90	2.2
WB2	58.82	189	P	27 19.30	-2.6
			i	27 24.80	
			eS	35 20.60	
WRA	58.82	189	Pd	27 19.50	-2.4
	0.9s	45.20nm			5.6mb
KBS	59.27	350	iPc	27 23.30	-1.1
HYB	59.37	268	Pc+	27 24.90	-1.1
			e	30 57.00	
			eS	35 29.60	
			eSS	39 36.00	
RES	60.76	15	eP	27 33.00	-1.6
	0.7s	206.00nm			6.4mb
PVC	60.96	152	Pc	27 35.30	-1.2
PHC	61.16	47	eP	27 44.50	6.9X
QUE	61.54	287	iPc	27 39.30	-1.5
			eS	35 56.00	
APA	61.71	336	Pc	27 39.20	-2.0
			iS	35 59.00	
YKC	61.91	31	eP	27 41.00	-1.5
	1.1s	177.00nm			6.1mb
KOU	62.24	157	Pc	27 44.40	-0.7
KEV	62.33	339	Pc	27 45.60	0.3
			i	27 53.60	
			eS	36 12.00	
			eSS	40 12.00	
POO	62.42	272	iPc	27 45.80	-0.8
			iPcP	28 31.00	
			iPP	30 11.50	
			iS	36 14.00	
			iPPS	36 37.50	
			iScS	37 30.00	
GBA	62.46	266	Pd	27 46.50	-0.3
	0.9s	253.00nm			6.3mb
SOD	63.92	337	eP	27 54.00	-1.7
KAR	64.12	282	e(P)	27 56.00	-1.6
DAG	64.27	355	iPc	27 56.00	-1.9
	1.0s	190.00nm			6.1mb
			iS	36 33.00	
PGC	64.41	47	eP	28 04.50	5.3X
TRO	64.55	341	iP	27 58.40	-1.4
NOU	64.55	156	Pc	27 58.00	-2.3
KIR	65.40	339	P	28 03.90	-1.5
			ipP	28 13.50	31kmX
VUN	65.51	142	eP	28 06.20	-0.3
	1.3s	247.00nm			6.1mb
KJF	65.56	334	P	28 05.40	-0.9
			i	28 14.00	
			eS	36 50.00	
			eSS	41 00.00	
KHI	65.60	295	eP	28 07.80	0.5
TGI	65.81	294	eP	28 07.50	-1.2
NAU	66.05	208	eP	28 08.00	-1.9
WBN	66.22	196	Pd	28 09.70	-1.3
PNT	66.23	45	eP	28 10.00	-1.0
	1.0s	300.00nm			6.3mb
			pP	28 28.00	67kmX
MOS	66.63	324	Pc	28 12.00	-1.3
			iS	37 01.00	
SUF	67.05	333	P	28 14.90	-1.0
AFI	67.33	131	eP	28 16.00	-2.3
			S	37 12.00	
			SS	41 00.00	
			LQ	45 00.00	
			LR	48 00.00	
PUL	67.38	330	Pc	28 17.00	-0.9
			iS	37 10.00	
EDM	67.38	39	eP	28 17.60	-0.6
	1.6s	1030.00nm			6.6mb
OBN	67.43	323	Pc	28 18.00	-0.4
			iS	37 16.00	
FHC	68.17	55	iP	28 24.70	1.4
NEW	68.19	45	eP	28 23.00	-0.4
	Z 19s	35.00um			6.6Msz
	N 19s	30.00um			
	E 19s	20.00um			
			e	28 40.00	
UME	68.27	336	P	28 21.70	-1.8
			ipP	28 31.90	33kmX
MAK	68.36	308	P	28 22.00	-2.4
YKM	68.63	44	iPc	28 27.10	0.9
MEK	68.79	203	eP	28 27.00	-0.1
RXF	68.95	44	iPc	28 28.70	0.6
NUR	69.05	332	Pc	28 27.00	-1.4
	Z 18s	265.00um			7.5Msz
			i	28 37.80	
			eS	37 32.00	
			eSS	41 52.00	
LDM	69.08	44	iPc	28 30.30	1.5
WDC	69.21	54	iPc	28 30.50	0.8
GRO	69.25	309	eP	28 30.00	0.1
MIN	69.93	54	iP	28 34.30	0.0
SES	70.20	41	eP	28 34.00	-1.6
	1.3s	768.00nm			6.5mb
KRV	70.36	307	P	28 35.00	-1.7
PYA	70.43	311	eP	28 36.00	-1.1
			iS	37 48.00	
ORV	70.44	55	iPc	28 37.30	0.0
MTA	70.72	308	Pc	28 47.20	8.4X
MSO	70.78	45	iPc	28 42.00	2.7
	1.3s	166.00nm			5.8mb
BKS	70.91	57	P	28 42.00	1.9
	E 20s	24.00um			
			S	37 59.00	
			LQ	45 51.00	
			LR	49 46.00	
GRS	71.01	306	Pc	28 39.60	-1.3
			ipP	28 40.40	3kmX
BKR	71.48	309	Pc	28 44.40	0.7
			iS	37 56.40	
MHC	71.60	57	iP	28 45.00	0.5
GDH	71.74	6	iP	28 40.00	-4.5X
	1.0s	84.00nm			5.6mb
			iS	38 02.00	
FFC	71.74	34	eP	28 44.00	-0.8
	1.1s	273.00nm			6.1mb
ERE	71.77	307	Pc	28 45.00	-0.4
			iS	38 06.00	
LEN	71.84	308	Pc	28 46.00	0.2
UPP	71.99	334	iP	28 45.60	-0.6
	1.3s	1100.00nm			6.6mb
			i	28 53.80	
			iS	38 04.10	
JAS	72.04	56	iPc	28 47.70	0.8
SHI	72.40	294	P	28 50.00	0.7
NUE	72.50	133	eP	28 59.00	9.4X

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BMN	72.63	52	eP	28 51.00	0.5
SOC	72.66	312	Pc	28 49.40	-1.0
			iS	38 18.00	
APO	72.69	336	P	28 49.34	-1.0
YOU	72.74	175	P	28 49.90	-0.9
			i	28 56.90	
SLL	72.93	336	P	28 50.99	-0.7
PRI	72.93	57	iP	28 53.30	1.0
FRI	73.07	56	iP	28 53.70	0.8
HFS	73.08	336	eP	28 51.80	-0.8
	0.8s	172.00nm			6.0mb
	Z 18s	225.00um			7.5Msz
NB2	73.13	338	P	28 52.30	-0.6
	0.8s	126.00nm			5.9mb
MNV	73.22	54	iP	28 54.80	0.8
ADE	73.35	184	P	28 56.00	1.7
TBY	73.39	336	P	28 53.46	-0.9
CAN	73.82	175	P	28 57.30	0.2
EUR	73.96	52	iP	29 00.10	1.7
	0.3s	8.08nm			5.1mb X
WAM	74.68	175	P	28 05.60	-56.4X
KON	74.73	337	iP	29 01.50	-0.6
			S	38 40.00	
AKU	74.95	352	iPc	29 04.70	1.5
	1.3s	1900.00nm			6.9mb
	Z 21s	30.00um			6.6Msz
SIM	74.96	316	Pc	29 03.40	-0.3
			iS	38 39.40	
LD3	74.98	42	eP	29 03.00	-0.9
NWAO	75.08	202	P	29 04.00	-0.4
BER	75.34	340	eP	29 00.00	-5.6X
			i	29 06.00	
BDW	75.73	46	e(P)	29 08.00	-0.5
PAS	75.76	58	eP	29 09.00	0.5
	2.6s	1700.00nm			6.5mb
	Z 20s	36.00um			6.7Msz
	N 20s	34.00um			
	E 20s	32.00um			
			ePP	31 54.00	
			iS	38 46.00	
TOO	75.88	178	eP	29 13.00	4.1X
BHD	75.92	301	Pd	29 09.00	-0.4
			iS	38 52.00	
WAR	76.31	327	ePc	29 12.00	0.8
	Z 20s	140.00um			7.3Msz
			e	38 56.00	
KVT	76.34	312	iP	29 12.10	0.4
KIS	76.35	320	Pc	29 11.00	-0.6
			isP	29 13.50	
			iS	38 55.00	
LVV	76.73	324	Pc	29 13.00	-0.7
			iS	38 59.00	
REY	76.84	353	iP	29 17.30	3.4X
IAS	76.89	321	eP	29 15.00	0.5
			iPP	32 08.00	
			eS	39 00.00	
COP	76.99	334	iPd	29 15.00	0.1
	0.8s	328.00nm			6.4mb
			iPcP	29 25.00	
			iPP	32 08.00	
			iS	39 00.00	
			iSS	43 25.00	
KAS	77.47	313	iPd	29 19.70	1.7
BIR	77.49	320	eP	29 18.00	0.1
			ePP	32 15.00	
BAC	77.65	321	eP	29 21.00	2.3
CFR	77.97	319	eP	29 21.00	0.5
			ePP	32 18.00	
			eS	39 08.00	
FOC	78.11	320	eP	29 22.00	0.7
			iPP	32 19.00	
			eS	39 08.00	
ODB	78.12	320	eP	29 19.00	-2.3
			ePP	32 18.00	
VRI	78.22	320	eP	29 21.00	-0.9
			iPP	32 18.00	
			iS	39 08.00	
UZH	78.38	324	Pc	29 19.40	-3.3X
KRA	78.38	326	eP	29 22.60	-0.1
	1.5s	1220.00nm			6.7mb
			i	29 24.10	
			i	29 25.10	
			i	29 30.60	
			i	29 35.10	
BMR	78.51	323	eP	29 25.00	1.5
ZGT	78.55	314	eP	29 23.00	-0.8
GLA	78.63	57	eP	29 25.00	0.5
MGN	78.66	314	eP	29 26.00	1.5
NIE	78.68	326	iPc	29 24.80	0.4
	1.5s	567.00nm			6.3mb
			i	29 42.50	
ISR	78.82	320	eP	29 27.00	1.7
			ePP	32 30.00	
MLR	78.88	320	eP	29 26.00	0.3
			iPP	32 32.00	
			eS	39 25.00	
			eS	39 26.00	
SPC	78.89	326	iP	29 25.70	-0.1
	Z 14s	215.00um			7.6MszX
			i	29 32.20	
			e(PP)	32 26.00	
RBN	78.95	327	eP	29 26.00	0.2
			epP	29 27.00	3kmX
			eS	39 25.00	
CEI	78.99	324	eP	29 27.00	0.9
RAC	79.11	327	eP	29 28.00	1.3
			isP	29 30.00	
			epP	29 31.00	10kmX
MDB	79.19	322	eP	29 30.00	2.8
BRL	79.22	331	ePc	29 29.50	2.3
JOS	79.27	325	Pc	29 27.80	0.2
			iPcP	29 37.00	
			e	30 26.00	
			e	33 56.00	
BRN	79.30	331	iPc	29 28.50	0.9
KSP	79.32	329	iPc	29 28.00	0.2
	1.5s	940.00nm			6.5mb
BUC	79.56	319	eP	29 30.00	0.8
			iPP	32 35.00	
			iS	39 32.00	
HAM	79.64	334	iPc	29 31.90	2.4
PSZ	79.99	325	P	29 32.00	0.4
DEV	80.09	322	eP	29 33.00	1.0
			ePP	32 37.00	
			eS	39 36.00	
GOL	80.13	47	eP	29 34.50	1.8
GPA	80.15	314	eP	29 31.80	-0.7
GLD	80.18	47	eP	29 35.00	2.1
RAR	80.21	127	eP	29 40.00	7.1X
			pP	29 49.00	29kmX
			PP	32 29.00	
			(SKS)	39 39.00	
			LQ	50 08.00	
			LR	53 56.00	
BRG	80.23	330	iPc	29 32.60	-0.1
			i	29 42.00	
			PP	32 45.00	
			S	39 35.00	
			P'P'	56 36.00	
CLL	80.25	331	iPc	29 32.80	0.0
			i	29 41.00	
			i	29 46.00	
			i	30 06.00	
			S	39 36.00	
DRA	80.29	321	eP	29 34.00	0.9
ISK	80.31	315	eP	29 34.00	0.7
DMK	80.50	317	iP	29 34 60	0.3
CTT	80.60	316	eP	29 35.00	0.2
PRA	80.67	329	iP	29 34.00	-1.0
PRU	80.69	329	iPc	29 35.00	-0.1
SRO	80.77	326	eP	29 38.00	2.4
	Z 16s	658.00um			8.1MszX
			e(PP)	32 58.00	
BKT	80.90	315	eP	29 37.00	0.3
ALT	81.10	313	iP	29 38.70	1.1
TAU	81.28	177	eP	29 45.00	7.0X
VIE	81.29	327	Pc	29 39.00	0.7
			(SKS)	39 48.00	
			e	10 00.00	
WIT	81.29	335	eP	29 40.00	1.8
VKA	81.29	327	iPc	29 38.60	0.3
			i	29 48.00	
			i	32 23.00	
			PP	32 50.00	
			(SKS)	39 48.00	
MOX	81.31	331	iPd	29 39.00	0.6
	1.8s	877.00nm			6.4mb
	Z 15s	158.00um			7.5MszX
	N 17s	201.00um			
	E 18s	194.00um			
			iS	39 48.00	
SSR	81.39	322	eP	29 39.00	0.1
EDC	81.46	316	iP	29 39.50	0.1
HOF	81.48	331	iPc	29 39.40	0.1
	1.8s	1530.00nm			6.7mb
			iS	39 50.00	
DIM	81.49	318	eP	29 40.00	0.5
DST	81.56	315	eP	29 40.60	0.7
KHC	81.75	329	Pc	29 41.00	0.2
	0.9s	99.00nm			5.8mb
	Z 20s	222.00um			7.5Msz
	N 17s	96.60um			
	E 19s	155.00um			
			e	29 49.00	
			e	29 54.50	
			e	32 56.20	
			S	39 53.60	
LHC	81.75	32	eP	29 39.00	-1.7
	1.2s	253.00nm			6.1mb
KDZ	81.90	318	Pc	29 43.00	1.4
BCK	81.91	312	eP	29 41.00	-0.8
KRP	81.93	154	iP	29 44.10	2.6
			PcP	29 49.00	
			pP	29 55.00	35kmX
WTS	81.93	334	ePc	29 41.00	-0.5
			eSP	40 38.00	
EKA	81.98	341	P	29 43.00	1.2
	1.0s	81.40nm			5.7mb
ESK	82.01	341	eP	29 44.50	2.6
WET	82.02	329	iPc	29 42.10	0.0
BEO	82.04	323	P	29 41.50	-0.8
			iPP	32 52.20	
			eS	39 57.20	
SOF	82.19	320	Pc	29 45.00	1.8
GRF	82.23	331	iPc	29 43.80	0.6
	Z 16s	187.00um			7.5MszX
			i	29 46.10	
			e	29 48.70	
			e	29 56.70	
			e	30 07.90	
			eS	40 22.80	
GRFO	82.23	331	eP	29 43.60	0.4
KMR	82.37	328	iPc	29 44.20	0.2
			e	09 00.00	
MOA	82.48	328	iPc	29 43.30	-1.3
			i	30 20.00	
			i	41 04.00	
			e	09 27.00	
			e	11 11.00	
BNS	82.67	334	P	29 56.00	10.6X
ALQ	82.69	51	eP	29 46.00	-0.1
	1.0s	42.50nm			5.4mb
	Z 22s	40.70um			6.8Msz
ELL	82.79	312	iP	29 46.40	-0.1
TNS	82.83	332	eP	29 46.90	0.5
ZAG	83.33	326	e(P)	29 55.50	6.6X
			i	40 05.60	
MEM	83.37	334	Pc	29 50.60	1.6
GNZ	83.43	153	P	29 59.00	9.7X
FUR	83.44	330	iPc	29 49.80	0.3
	1.8s	1800.00nm			6.8mb
			eS	40 11.00	
VAY	83.58	319	P	29 51.40	1.1
SKO	83.67	320	Pc	29 51.40	0.6
			iS	40 13.30	
STU	83.75	331	ePd	29 51.50	0.5
	1.0s	160.00nm			6.0mb
UCC	83.76	335	Pd-	29 51.70	0.7
			PP	33 06.00	
			PPP	35 10.00	
			S	40 14.00	
LJU	83.79	327	iP	29 50.90	-0.4
			ePP	32 57.50	
			eS	40 10.00	
PMO	83.81	115	iP	29 59.60	7.9X
	1.5s	480.00nm			6.3mb
THE	83.88	318	P	29 52.00	0.2
COB	83.92	158	P	29 53.00	1.3
			pP	30 01.00	25kmX
TPT	83.99	114	iP	30 01.00	8.4X
	1.5s	500.00nm			6.3mb
WLF	84.11	333	ePc	29 55.00	2.2
			PP	33 12.00	
			S	40 21.00	
			SS	45 31.00	
VAH	84.15	115	iP	30 01.40	8.0X
	1.5s	250.00nm			6.1mb
GWF	84.16	332	P	29 54.20	1.1
BUH	84.19	332	eP	29 52.00	-1.3
DMU	84.20	343	eP	29 54.40	1.2
	1.9s	1100.00nm			6.6mb

AFR	84.20	118	iP	29 59.00	5.4X
	1.4s	410.00nm			6.3mb
DOU	84.28	334	Pd+	29 54.40	0.7
			PP	33 11.00	
			S	40 19.00	
RUV	84.30	114	iP	30 01.40	7.3X
	1.5s	425.00nm			6.3mb
MNG	84.34	156	iP	29 55.00	1.1
			i	30 58.00	
			pP	31 04.00	291kmX
PPT	84.36	118	iP	29 59.10	4.6X
	1.4s	320.00nm			6.2mb
TRI	84.38	327	ePc	29 52.50	-1.7
			i	29 54.10	
			iPP	33 11.00	
			e	40 10.00	
			iS	40 16.00	
			iSS	45 23.00	
			iSSS	48 50.00	
PAE	84.43	118	iP	30 00.00	5.3X
	1.4s	250.00nm			6.1mb
PPN	84.44	117	iP	30 00.00	5.2X
	1.4s	310.00nm			6.2mb
DDK	84.53	342	eP	29 55.70	0.9
	1.9s	840.00nm			6.5mb
OHR	84.63	320	iP	29 55.30	-0.4
DLE	84.67	342	eP	29 55.80	0.2
	1.9s	790.00nm			6.5mb
WEL	84.72	156	P	30 03.00	7.3X
			PP	33 23.00	
			(SKS)	40 04.00	
			SS	45 56.00	
			SSS	49 34.00	
			LQ	52 00.00	
			LR	57 00.00	
TVO	84.74	118	iP	30 04.90	8.5X
	1.4s	670.00nm			6.6mb
CDF	84.76	332	eP	29 56.70	0.5
	1.0s	78.20nm			5.8mb
DCN	84.80	343	eP	29 56.40	0.2
	1.9s	1130.00nm			6.7mb
ECH	84.97	332	P+	29 58.00	0.8
			ePP	33 10.00	
			ePPP	35 02.00	
			eS	40 25.00	
CTI	85.00	328	P	29 57.50	0.0
			i	30 10.00	
			e	33 41.00	
ZUL	85.12	331	P	29 57.30	-0.7
BAF	85.35	332	P	30 00.00	0.8
BSF	85.42	332	eP	29 59.30	-0.3
	1.0s	29.20nm			5.4mb
HAU	85.44	332	eP	29 59.60	0.0
	0.8s	47.50nm			5.7mb
BBS	85.47	331	P	29 59.20	-0.5
ECP	85.65	342	eP	29 59.50	-0.9
	2.0s	1260.00nm			6.8mb
SAL	85.82	329	P	30 02.00	0.6
			i	30 14.00	
RHP	85.97	161	P	30 04.00	2.0
NEC	86.06	331	P	30 02.00	-0.7
CMZ	86.19	159	iP	30 15.10	12.1X
PCN	86.62	329	P	30 08.00	2.6
			eS	40 48.00	
HLW	86.63	306	P	30 07.00	1.3
DIX	86.66	331	P	30 05.90	0.0
VAL	86.78	344	iP	30 05.00	-1.0
			iS	40 31.00	
ORO	86.82	330	P	30 06.50	0.0
			ePP	34 47.00	
			eS	40 42.00	
FOG	86.93	323	P	30 10.00	3.1X
VG1	86.95	329	P	30 09.50	2.5
LOR	86.96	333	iP	30 06.80	-0.2
PRT	86.98	327	P	30 17.00	9.9X
			ipP	30 41.00	89kmX
			iPP	33 03.50	
			iS	40 46.00	
FIR	87.00	327	P	30 07.00	-0.2
			iS	40 30.00	
PRG	87.05	326	P	30 00.00	-7.6X
			e	40 10.00	
FLN	87.09	337	iP	30 07.40	-0.2
	1.0s	57.60nm			5.8mb
SSC	87.13	336	iP	30 07.70	-0.1
	1.1s	55.40nm			5.7mb
LBF	87.16	333	iP	30 07.90	-0.1
AQU	87.20	325	P	30 10.00	1.7
			i	33 37.00	
SSF	87.26	334	iP	30 08.50	0.0
DUI	87.27	324	P	30 07.30	-1.3
GEN	87.44	329	P	30 17.50	8.2X
SMF	87.50	333	eP	30 09.80	0.2
MNS	87.50	325	P	30 11.50	1.9
			i	33 38.00	
SGG	87.52	324	P	30 11.30	1.4
			eS	33 37.00	
GRR	87.54	337	iP	30 10.00	0.2
AVF	87.54	333	eP	30 09.90	0.1
PNI	87.67	330	P	30 17.50	7.0X
SGO	87.74	323	P	30 11.00	0.2
MSC	87.87	324	P	30 11.90	0.4
ROI	87.90	321	P	30 09.00	-2.7
LPF	87.91	337	iP	30 12.00	0.5
RMP	87.95	325	P+	30 12.00	0.1
			ePP	33 40.50	
			iS	40 42.00	
			iPPS	42 10.00	
ROM	87.96	325	P	30 07.00	-4.9X
ROB	87.97	329	P	30 11.00	-1.0
TUL	88.15	44	iPd	30 15.40	2.5
	1.1s	109.00nm			6.0mb
	Z 19s	36.30um			6.8Msz
SGR	88.16	336	eP	30 13.70	1.0
STV	88.23	330	P	30 27.00	13 7X
MZF	88.31	334	iP	30 14.00	0.4
RLO	88.37	43	eP	30 14.50	0.5
			e	30 24.20	
TCF	88.37	334	iP	30 14.20	0.3
SSB	88.41	332	iPd	29 15.10	-59.0X
LSF	88.64	334	iP	30 15.20	0.1
MFF	88.89	335	iP	30 17.10	0.8
	1.0s	65.70nm			5.9mb
LMR	89.31	330	eP	30 18.20	-0.1
OTT	89.44	26	eP	30 18.00	-0.9
	1.0s	154.00nm			6.3mb
RJF	89.47	334	iP	30 19.40	0.3
	0.9s	38.80nm			5.7mb
ROG	89.48	331	ePd	30 19.90	0.8
			i	30 28.80	
UTO	89.58	33	ePd	30 33.50	13.9X
CAF	89.61	333	iP	30 20.20	0.4
JCT	89.82	50	iP	30 21.80	0.8
	Z 22s	53.70um			6.9Msz
			i	30 32.00	
			eS	41 00.00	
MNT	90.04	25	eP	30 21.50	-0.2
	1.0s	96.00nm			6.1mb
CIZ	90.05	152	eP	30 35.00	13.6X
LFF	90.06	334	iP	30 22.40	0.6
	0.8s	62.60nm			6.0mb
LPO	90.13	334	iP	30 22.30	0.2
	0.9s	28.80nm			5.6mb
ARO	90.55	285	iPc	30 25.90	1.3
			eS	34 03.20	
CLE	90.58	32	iPc	30 25.20	0.9
			(SKS)	40 58.00	
DVT	90.99	24	eP	30 26.30	0.2
HNME	91.16	21	eP	30 27.20	0.3
MLS	91.67	333	iPd	30 32.10	2.8
MIM	91.70	22	eP	30 29.90	0.6
	1.0s	48.50nm			5.9mb
EPF	91.87	333	iP	30 30.00	-0.3
	0.9s	24.40nm			5.6mb
IVT	91.99	25	eP	30 31.20	0.5
TRM	92.22	23	eP	30 32.30	0.5
LGR	93.34	335	iPd	30 40.50	3.5X
			iPP	34 15.00	
			iS	41 31.50	
EBR	93.75	332	eP	30 38.00	-0.9
			(PP)	34 34.00	
ORT	93.97	37	eP	30 40.00	0.0
BLA	94.63	33	eP	30 43.60	0.5
SET	95.78	327	P	30 58.00	9.6X
TOL	96.17	335	eP	30 56.00	5.9X
			iS	42 02.00	
			iSS	48 30.00	
			iSSS	52 50.00	
ALI	96.28	332	iPc	30 47.50	-3.0X
MTD	116.77	269	ePKP	36 01.00	-6.2X
			iPP	37 16.00	
KRI	118.34	271	ePKP	36 09.00	-1.2
			ipPKP	36 21.00	
			iPP	37 35.00	
BUL	120.98	268	PKP	36 14.80	-0.4
	Z 22s	34.80um			7.0Msz
	N 22s	20.70um			
	E 21s	20.10um			
			ipPKP	36 26.00	
			iPP	37 46.00	
FDF	122.34	28	PKP	36 23.80	6.1X
CAR	123.77	36	ePKP	36 33.00	12.3X
			iPP	38 04.00	
KUK	123.84	314	PKP	36 25.50	4.8X
MBO	123.95	336	PKP	36 20.30	-0.5
KIC	126.05	319	ePKP	36 22.40	-2.6X
			e	38 19.00	
NNA	135.89	64	ePKP	36 45.60	1.9
	1.0s	22.00nm			
			eS	39 18.00	
HUA	136.99	62	ePKP	36 46.90	0.6
ZOBO	144.89	59	PKP	36 59.40	-1.1
LPB	145.10	60	PKP	37 01.00	0.4
			e	27 00.00	
ANT	148.09	72	ePKP	37 08.00	3.3X
SOB3	151.01	8	ePKP	37 14.40	4.9X
			e	37 16.40	
			e	37 17.90	
LNV	152.11	91	ePKP	37 15.00	4.5X
PEL	152.39	89	PKP	37 17.50	6.4X
VCA	152.46	78	PKPd	37 22.00	10.5X
SAN	152.52	90	ePKP	37 19.00	7.8X
LPA	162.95	84	PKPc	37 22.00	-1.5
			e	38 20.00	
			PP	42 04.00	
			SKKS	48 40.00	
			SKSP	52 19.00	
			SS	02 24.00	
RDJ	163.46	20	PKP	37 23.00	-1.3

S.D. = 1.2 on 416 of 509 obs.

JAN 23, 1981 21h 13m 48.12± 0.08s
30.967 N ± 1.8km 101.134 E ± 1.6km
DEPTH = 10.0km (geophysicist)
5.8mb (71 obs.) 6.8Msz (9 obs.)
SICHUAN PROVINCE, CHINA (307)
About 150 people killed, 300 injured and extensive damage in the Dowu area.

CDU	2.49	96	Pd	14 28.60	-0.8
LZH	5.58	23	Pc	15 12.50	-0.9
			Pg	15 33.50	
KMI	5.99	166	Pc	15 19.50	0.3
			Pg	15 45.00	
			eSn	16 31.00	
GYA	6.61	131	Pd	15 28.00	0.1
			S	16 44.00	
XAN	7.26	63	eP	15 26.00	-10.8X
LSA	8.72	264	P	15 57.00	-0.7
			S	17 38.00	
SHL	9.77	239	iP	16 10.00	-1.8
			eS	18 00.00	
BGV	10.66	153	P	16 22.00	-1.9
WHN	11.38	89	P	16 29.20	-4.5X
			iS	18 31.00	
CHG	12.26	190	iPc	16 46.90	1.2
	1.8s	750.00nm			6.7mb
			eS	20 30.00	
GZH	13.41	123	Pd	16 56.00	-4.9X
			eS	19 18.00	
BDT	13.80	189	iPc	17 06.60	0.5
TIA	14.31	64	P	17 11.60	-1.2
			eS	19 48.00	
HKC	14.49	123	P	17 13.00	-2.2
			S	19 44.00	
NJ2	15.16	81	Pd	17 21.40	-2.5
			S	20 10.00	
			i	20 36.00	
BJI	15.21	49	P	17 26.00	1.5
			eS	20 18.00	
PCT	16.21	179	iP	17 38.00	0.4
	1.0s	98.30nm			4.9mb
QZH	16.54	107	Pd	17 38.00	-3.7X
			eS	20 40.00	
WMQ	16.66	324	Pd	17 41.50	-1.8
			eS	20 50.00	
SSE	17.19	84	Pd	17 48.00	-1.9
			S	20 58.00	
			i	21 15.00	
TCU	18.60	107	P	18 10.60	3.2X

23d 21h

			S	23	42.70		DAV	32.98	131	eP	20	26.00	0.6				iS	30	36.00				
ANP	18.88	103	Pd	18	11.00	0.1		1.6s	1070.00nm			6.5mb		KNA	53.51	146	eP	23	09.00	-2.1			
			S	21	49.80					eS	25	48.00		PUL	54.24	324	Pc	23	16.00	0.1			
HWA	19.45	106	P	18	14.20	-3.6X	SAP	33.98	58	eP	20	30.00	-3.8X				ipP	23	27.00	37kmX			
			eS	22	05.50					eS	25	43.00					eS	30	54.00				
TTN	19.62	110	P	18	23.60	3.9X	KMU	35.10	59	eP	20	43.20	-0.3	MOM	54.88	118	eP	23	22.00	0.7			
HEN	19.68	112	eP	18	22.00	1.7	BKB	35.38	152	ePd	20	47.50	1.5	NAU	54.96	164	eP	23	21.00	-0.7			
			Sn	24	07.80		TGI	35.47	284	eP	20	46.00	-1.0	ANTO	55.19	299	iPd	24	28.00	64.7X			
NHA	20.10	156	P	18	23.00	-1.9	YSS	35.61	51	Pd	20	50.00	2.3	MGN	55.40	301	eP	23	26.90	2.1			
NDI	20.87	270	iPd	18	29.80	-3.0				epP	21	02.20	45kmX	KJF	55.41	329	Pc	23	24.00	-0.5			
	0.5s	352.00nm			6.0mb					eS	26	22.00					e	24	06.00				
	N 18s	45.40um					ASH	35.72	293	eP	20	49.00	0.2				eS	31	08.00				
	E 18s	29.20um					KHI	35.77	287	eP	20	49.20	-0.3				eSS	35	00.00				
			iS	22	16.00		YAK	36.17	22	Pc	20	52.30	0.0	MDG	55.80	122	eP	23	28.00	0.1			
UER	21.23	348	Pc	18	34.90	-1.3				iS	26	29.60		KEV	55.82	336	iP	23	26.80	-0.6			
IRK	21.42	5	ePc	18	36.00	-2.1	KAT	37.31	295	P	21	04.00	1.8		0.9s	2960.00nm				7.3mb X			
			eS	22	30.00					iS	26	54.00					ePP	25	36.00				
PRZ	21.48	309	eP	18	39.00	0.0	LEM	38.09	170	iPc	21	10.50	1.5				eS	31	14.00				
			eS	22	29.00			1.0s	20.00nm			4.8mb					eSS	35	02.00				
PIP	21.68	121	iPd	18	41.00	0.0				iS	27	06.00		SOD	55.88	333	P	23	25.40	-2.5			
	1.0s	442.00nm			5.8mb		SVE	38.11	325	Pc	21	08.20	-0.4	SMY	55.98	45	e(P)	23	29.50	0.8			
SZP	22.06	123	ePd	18	50.50	5.7X				isP	21	25.00		SUF	56.15	328	P	23	27.50	-2.4			
KSH	22.18	299	Pd	18	48.00	2.0				iS	27	03.00		KIS	56.47	309	eP	23	32.00	-0.3			
			iS	22	53.00		KUR	38.89	55	eP	21	17.00	1.6				isP	23	48.00				
TLG	22.48	310	P	18	49.90	0.9	ARU	38.97	323	eP	21	16.00	0.1				eS	31	18.00				
LAH	22.90	278	e(P)	18	49.00	-4.1X				esP	21	34.00		GPA	56.93	300	eP	23	34.90	-0.9			
BAG	22.90	125	ePc	18	55.00	1.6				eS	27	15.00		NUR	57.03	325	P	23	36.20	0.1			
	2.1s	3330.00nm			6.5mb		NRI	39.19	353	Pd	21	16.00	-1.5				i	23	41.60				
			iS	23	00.00					iS	27	11.00					eS	31	28.00				
CN2	23.08	49	P	18	56.00	1.2	TRT	40.00	162	iPd	21	24.90	0.1				eSS	35	14.00				
			iS	23	08.00			0.4s	128.00nm			5.9mb		ARO	57.03	264	eP	23	32.60	-4.3X			
MNL	23.29	283	eP	18	52.10	-4.8X	MKS	40.02	151	ePc	21	31.00	6.0X	IAS	57.31	309	eP	23	37.00	-1.3			
SNG	23.67	181	iPc	19	02.00	1.3	TEH	41.47	290	eP	21	45.00	8.0X	CFR	57.33	307	eP	23	37.00	-1.4			
	1.8s	96.00nm			5.1mb		SHI	41.72	281	P	21	38.00	-1.1	BIR	57.46	308	eP	22	46.00	-53.4X			
			eS	25	11.00					S	28	00.00		ISK	57.66	302	eP	23	40.00	-0.8			
NIL	23.69	284	eP	19	00.20	-0.6	AAI	43.06	138	ePc	21	51.70	1.8	IST	57.71	302	eP	23	40.00	-1.1			
FRU	24.18	307	Pc	19	06.40	0.9		0.7s	299.00nm			6.1mb		BAC	57.88	308	eP	23	40.00	-2.3			
			eS	23	14.00		TIK	43.40	12	ePd	21	50.00	-2.0	ODB	57.95	307	eP	23	44.00	1.2			
			isS	23	30.00					eS	28	17.00		ILT	58.03	26	Pd	23	43.00	-0.1			
MAN	24.46	127	iP	19	10.00	1.7				esS	28	38.00					ipP	23	52.30	31kmX			
QCP	24.47	127	P	19	14.00	5.6X	GUMO	43.69	103	eP	21	57.00	1.9				isP	24	02.00				
HYB	24.56	242	ePd	19	09.00	-0.3	GUA	43.76	103	e(P)	21	56.50	0.9				iS	31	40.00				
			e	19	19.50			0.9s	249.00nm			6.0mb		VRI	58.16	308	eP	23	47.00	2.7			
			eS	23	24.00					e(S)	28	25.00					iPP	26	00.00				
ELT	24.75	338	Pc	19	10.30	-0.5	MGD	43.81	33	Pc	21	56.40	0.9	KIR	58.25	334	P	23	42.00	-2.7			
SEM	24.91	327	eP	19	10.00	-2.4				ipP	22	07.00	37kmX				i	23	44.10				
			epP	19	20.10	37kmX				iS	28	22.00		DST	58.36	300	iP	23	45.40	-0.4			
			eS	23	36.30		MAK	43.86	301	Pd	22	04.00	7.8X	ISR	58.45	307	eP	23	47.00	0.6			
ANR	25.19	301	eP	19	15.00	-0.2	SKR	44.87	48	eP	22	08.00	3.8X	TRO	58.64	336	iP	23	47.10	-0.3			
PSH	25.20	285	eP	19	14.00	-1.4				eS	28	36.00		MLR	58.78	307	Pd	23	51.00	2.2			
WRS	25.21	285	iPc	19	14.20	-1.2	GRS	44.97	297	Pc	22	05.80	0.3	BUC	58.93	306	eP	23	56.00	6.3X			
KHO	25.26	293	Pd	19	15.90	-0.2				eS	28	45.60		LVV	59.05	313	eP	23	50.00	-0.5			
BSI	25.92	193	ePd	19	21.50	-0.7	GRO	45.12	302	Pc	22	06.00	-0.4				iS	31	59.00				
	1.0s	250.00nm			5.9mb					iS	28	37.00		HLW	59.25	288	iPc	23	50.00	-2.1			
GAR	26.40	296	eP	19	24.00	-2.6	SEY	45.47	30	ePd	22	09.00	0.2				iS	32	05.00				
			eS	24	03.60					S	28	46.70		CMP	59.45	307	ePd	23	56.00	2.7			
PPR	26.69	138	ePc	19	27.00	-2.3	KUPT	46.22	149	eP	22	15.80	0.6	MEK	59.62	162	eP	23	53.00	-1.7			
	1.1s	208.00nm			5.7mb			0.9s	243.00nm			6.2mb		PMG	59.64	125	eP	23	55.00	0.0			
KUL	26.71	294	eP	19	29.00	-0.4	ERE	46.29	298	Pd	22	17.00	1.2		Z 18s	34.40um				6.5Msz			
NVS	27.09	337	P	19	32.20	-0.4	PET	46.63	45	eP	22	20.00	1.9	MDB	59.68	308	eP	23	57.00	2.2			
			eS	24	11.00					eS	29	04.00		KBS	59.69	347	iP	23	54.40	-0.2			
KAAO	27.16	286	iP	19	32.20	-1.6	LEN	46.71	299	Pd	22	21.00	1.8	WRA	59.83	143	Pc	23	53.10	-3.1X			
VLA	27.23	55	P	19	33.20	-0.8	BKR	46.85	300	Pd	22	21.80	1.5		0.8s	176.00nm				6.2mb			
LGP	27.34	125	ePd	19	35.00	-0.2	PYA	46.98	303	Pc	22	21.20	0.1	WB2	59.84	143	P	23	52.60	-3.6X			
TSI	27.43	186	ePd	19	35.50	-0.5				iS	29	12.00					i	23	56.10				
	1.1s	970.00nm			6.4mb		BHD	47.61	288	Pd	22	27.00	0.9				eS	32	20.00				
DSH	27.54	295	Pd	19	37.80	0.8				eS	27	27.00					e	53	19.70				
POO	27.62	250	iPc	19	39.50	1.7				e	46	08.00		BMR	59.89	310	eP	23	57.00	0.8			
			iPPP	20	41.50		RAM	49.14	295	eP	22	41.00	2.9	RAB	59.90	116	Pd-	23	58.00	1.2			
			iS	24	20.50		SOC	49.43	303	eP	22	40.00	-0.1	PVL	59.91	305	Pc	23	57.00	0.6			
			iSS	25	28.50					iS	29	50.00		DIM	59.92	304	eP	24	00.00	3.5X			
GBA	27.82	237	Pc	19	38.90	-0.7	TBZ	49.74	299	iP	22	43.00	0.5	DRA	60.14	307	eP	23	57.00	-1.0			
	1.4s	59.60nm			5.2mb		JAY	50.27	124	e(P)	22	46.00	-0.9	KDZ	60.20	303	Pd	23	58.00	-0.4			
BOD	28.35	15	eP	19	44.00	0.0	MOS	50.29	319	Pc	22	47.00	0.5	UZH	60.43	312	Pc	24	00.00	0.1			
KGM	28.87	175	ePc	19	48.00	-1.0				isP	23	02.00					isP	24	16.00				
	1.3s	438.00nm			6.1mb					eS	30	00.00					iS	32	16.00				
SAM	29.04	297	eP	19	51.00	0.5	OBN	50.86	318	Pc	22	56.00	5.2X	UPP	60.59	325	iP	23	58.60	-2.3			
			eS	24	37.90					esP	23	12.00			1.3s	500.00nm				6.5mb			
			esS	24	52.70					iS	30	08.00					iS	32	17.00				
ABU	29.09	73	ePd	19	51.00	0.1	MTN	52.23	142	eP	23	00.00	-1.7	DEV	60.74	308	ePc	24	03.00	0.9			
PLP	29.60	127	ePd	19	55.00	-0.6	KVT	52.51	300	iP	23	04.80	1.2	SOF	61.33	305	eP	24	12.00	5.8X			
KAR	30.54	267	e(P)	20	05.00	1.0	KHE	52.55	352	ePc	23	04.00	0.6	NIE	61.49	313	iPc	24	08.00	0.8			
MAT	31.19	70	eP	20	07.00	-2.6				eS	30	32.00			0.8s	100.00nm				6.0mb			
	1.7s	431.00nm			6.1mb		SIM	53.23	305	eP	23	08.00	-0.8				ipP	24	20.60	44kmX			
			eS	25	16.00					esP	23	25.00		KRA	61.56	314	iPc	24	07.40	-0.2			
PPI	31.26	181	eP	20	09.00	-1.3				iS	30	41.00			0.7s	69.30nm				5.9mb			
PPH	32.81	129	eP	20	21.00	-2.9	APA	53.32	334	Pc	23	09.60	0.5		Z 25s	31.80um				6 4MszX			

23d 21h

	N	25s	51.80um								e	40	30.00			UCC	70.65	318	Pd	25	06.90	1.2
	E	25s	25.60um					MOA	65.79	312	iPc	24	35.40	-0.1					e	25	10.70	
			i	24	11.90						PcP	25	06.00							e	25	16.00	
			i	24	17.70			KMR	65.81	313	eP	24	38.00	2.5						S	34	30.00	
			i	24	32.90			WET	66.21	314	iPc	24	38.20	0.0		COL	70.65	25	iP	25	04.80	-0.7
			iS	32	33.00				1.2s		96.00nm			5.9mb						iS	34	23.00	
JOS	61.60	312	P	24	08.00	0.1		LJU	66.24	311	eP	24	38.50	0.1		FBA	70.65	25	eP	25	04.00	-1.5
			i	24	12.00			DAG	66.45	347	iPc	24	38.00	-1.2			1.0s		125.00nm			6.0mb
			i	25	07.00				1.1s		175.00nm			6.2mb		HAU	70.66	315	eP	25	05.40	-0.4
			ePP	26	32.00						iS	33	25.00			DIX	70.81	313	P	25	07.00	-0.1
SPC	61.60	313	eP	24	08.40	0.3					iSS	37	55.00			DOU	70.81	317	P	25	06.60	-0.1
AAE	61.75	263	eP	24	12.00	2.2		MOX	66.46	316	iP	24	39.50	-0.2					e	25	10.40	
WBN	61.78	154	Pc	24	10.60	1.2			2.0s		177.00nm			5.9mb					pP	25	17.40	35kmX
SSR	61.81	308	eP	24	08.00	-1.4		Z	15s		40.80um			6.8MszX					S	34	34.00	
TIM	61.91	309	eP	24	04.00	-6.0X		N	24s		177.00um					CVF	71.34	309	eP	25	09.20	-0.9
KNT	62.10	303	e(P)	24	12.40	1.0		E	24s		119.00um						0.8s		50.30nm			5.7mb
PSZ	62.17	311	P	24	13.20	1.3		ALE	66.48	358	eP	24	40.00	0.6		AVY	71.35	233	eP	25	09.60	-1.0
THE	62.22	303	e(P)	24	20.00	7.9X			1.2s		222.00nm			6.2mb		PNI	71.36	312	P	25	08.00	-2.2
			e(S)	32	41.60			BHG	66.71	313	iPc	24	41.80	0.4		STV	71.64	311	P	25	11.70	-0.2
APO	62.24	326	P	24	10.05	-2.0		CTA	66.74	134	P	24	40.70	-1.1		PMR	71.88	28	eP	25	11.40	-1.5
VAY	62.29	303	eP	24	12.00	-0.6					iS	33	34.00				1.0s		125.00nm			6.0mb
HFS	62.45	326	P	24	12.00	-1.5		TRI	66.87	310	eP	24	41.50	-0.8		Z	20s		80.00um			7.0Msz
	0.5s		22.00nm			5.6mb					e	26	52.00			N	20s		210.00um			
			e	53	00.00						iS	33	36.00			E	20s		135.00um			
ESA	62.49	122	P	24	16.20	1.9					iSS	38	00.00			EGL	72.14	325	eP	25	16.00	1.5
GRG	62.52	303	e(P)	24	11.60	-2.6					i	40	32.00				1.4s		126.00nm			5.8mb
SLL	62.55	326	P	24	12.54	-1.6					i	44	54.00			NYA	72.17	274	P-	25	14.90	-0.6
BEO	62.70	308	P	24	14.20	-1.1		GRF	67.03	315	iPc	24	44.10	0.7		ELO	72.32	326	ePc	25	17.20	1.6
			eS	32	44.40				1.1s		57.00nm			5.7mb			1.1s		82.00nm			5.7mb
ASP	62.76	146	eP	24	15.00	-1.0		Z	14s		35.00um			6.7MszX		EBL	72.33	325	ePc	25	17.20	1.5
SKO	62.89	304	iPc	24	16.00	-0.6		SGO	67.71	305	P	24	48.00	0.3			1.1s		88.00nm			5.8mb
			iS	32	50.00			DUI	67.89	306	P	24	49.20	0.4		KDC	72.40	33	eP	25	17.00	1.0
			iSS	37	08.00			IMA	67.94	25	eP	24	47.50	-1.5		LOR	72.49	315	eP	25	16.10	-0.8
SRO	63.22	311	eP	24	22.00	3.3X		OGA	68.20	312	iPc	24	50.60	-0.4			1.0s		15.40nm			5.0mb
	N	20s	58.40um						1.0s		113.00nm			6.0mb		EAU	72.50	325	eP	25	18.10	1.4
	E	20s	43.20um					AQU	68.35	307	P-	24	52.50	0.6			1.0s		147.00nm			6.0mb
			iS	32	58.00			OII	68.36	302	P	24	52.00	0.2		LBF	72.55	315	eP	25	16.70	-0.5
ISO	63.26	139	eP	24	19.00	-0.3		WIT	68.51	319	ePc	24	54.00	1.5			1.0s		25.90nm			5.3mb
NB2	63.39	327	P	24	19.20	-0.6					e	25	04.50			LMR	72.57	310	eP	25	17.10	-0.2
	0.9s		18.90nm			5.3mb		STU	68.61	315	ePc	24	52.70	-0.6		LRG	72.61	310	eP	25	17.60	0.0
OHR	63.62	304	eP	24	21.20	-0.3			1.0s		60.00nm			5.7mb			1.4s		64.30nm			5.5mb
TIR	64.21	304	P	24	23.80	-1.5		WTS	68.76	319	iPc	24	54.50	0.4		ESK	72.63	325	eP	25	21.00	3.5X
MUN	64.21	166	eP	24	24.00	-1.3					e	25	04.00				0.6s		56.00nm			5.8mb
VIE	64.33	312	P	24	30.00	4.0X		MNS	68.84	307	P+	24	54.20	-0.5		SMF	72.78	314	eP	25	18.40	-0.2
			PP	26	51.00						P	14	08.00			TOA	72.78	27	eP	25	20.00	1.6
			i	28	36.00						eS	20	55.00			SSF	72.80	315	eP	25	18.20	-0.4
			e	33	25.00			NAI	68.86	255	eP	24	43.00	-12.5X			1.0s		29.90nm			5.3mb
			e	33	43.00				2.0s		294.00nm					CDR	72.90	311	Pc	25	19.50	0.2
			e	54	00.00			BNS	68.95	317	eP	24	56.60	1.3		SSB	72.97	313	eP	25	19.50	-0.2
COP	64.34	321	eP	24	26.00	0.1		SAL	69.01	311	P	24	56.00	0.3		AKU	73.00	338	iP	25	23.90	4.5X
	0.7s		76.70nm			6.0mb		RMP	69.05	307	P	25	04.00	7.9X			1.5s		1150.00nm			6.7mb
			iS	33	07.00						eS	34	04.00			AVF	73.02	315	iP	25	19.70	-0.2
VKA	64.36	312	iPd	24	26.20	0.0		ROM	69.14	307	P	24	59.00	2.4		INK	73.13	18	eP	25	19.00	-1.1
			e	24	35.00						S	34	07.00				0.6s		92.00nm			6.0mb
			PP	26	51.00			HNR	69.17	115	eP	24	57.00	-0.2		ROG	73.19	311	eP	25	21.30	0.3
KLG	64.37	161	eP	24	25.00	-1.4					eS	34	04.00			PYM	73.71	314	P	25	24.50	0.4
KON	64.57	326	iP	24	27.00	-0.4		BUH	69.24	315	ePc	24	57.00	-0.2		MZF	73.75	314	eP	25	24.50	0.3
BRL	64.86	318	eP	24	31.00	1.7		FIR	69.25	309	P	24	59.00	1.8			1.4s		57.20nm			5.4mb
PRU	64.91	315	P	24	29.80	0.0					iS	34	07.00			TCF	73.95	315	eP	25	25.50	0.1
	Z	19s	56.30um			6.8Msz		PRT	69.32	309	P	25	01.00	3.3X			1.0s		38.70nm			5.4mb
	N	20s	43.50um								ipP	25	24.00	89kmX		RES	74.09	4	eP	25	26.00	0.4
	E	20s	45.90um								iPP	28	09.50				1.0s		120.00nm			5.9mb
			i	24	34.00						iS	34	10.00			SSC	74.24	317	eP	25	27.10	0.2
			S	33	14.00			SVW	69.39	30	eP	24	58.60	0.7		FLN	74.37	318	eP	25	27.90	0.2
PRA	64.95	315	iP	24	30.00	0.0		GWF	69.48	315	P	24	59.50	0.8		LSF	74.38	315	eP	25	27.80	-0.1
			e	24	35.00			ZUL	69.62	314	P	24	58.50	-1.0		ADE	74.51	149	Pc	25	30.10	1.4
			S	33	14.00			DBN	69.64	319	eP	24	58.00	-1.4		CAF	74.68	313	eP	25	30.10	0.4
BRG	64.99	316	iPc	24	30.50	0.3		Z	20s		20.00um			6.4Msz		GRR	74.77	317	eP	25	30.10	0.1
	1.6s		132.00nm			5.9mb					eS	34	13.00				0.8s		26.60nm			5.3mb
	N	24s	150.00um								e	35	15.00			RJF	74.84	314	eP	25	31.30	0.8
	E	24s	74.00um								e	36	32.00				1.3s		43.80nm			5.3mb
			eS	33	13.00						eSS	38	43.00			NPA	75.01	242	eP	25	33.00	1.1
CDY	65.08	29	eP	24	31.50	0.8					eSSS	41	54.00						e	26	28.00	
NWAO	65.35	165	eP	24	32.00	-0.6		MEM	69.78	317	P	25	07.00	6.7X		LPF	75.05	317	eP	25	32.20	0.6
CLL	65.41	316	iPc	24	32.80	-0.1					pP	25	11.20	14kmX			1.0s		20.00nm			5.1mb
			i	24	37.00			PCN	69.79	311	P	25	00.00	-0.5		SGR	75.14	317	eP	25	34.70	2.6
			pP	24	42.00	30kmX		CDF	69.92	315	eP	25	01.30	-0.1		DDK	75.20	324	iPc	25	39.90	7.5X
			PPP	28	32.00			BVT	69.94	310	P	25	02.50	1.0			1.1s		65.00nm			5.6mb
			S	33	18.00			ECH	70.07	315	P	25	02.00	-0.3		DMU	75.21	324	iPc	25	40.30	7.8X
			e	33	29.00						iS	34	12.00				1.0s		78.00nm			5.7mb
			PS	33	43.00			MBC	70.08	10	eP	25	01.00	-0.8		MFF	75.23	316	eP	25	32.70	0.0
			SP	33	51.00				0.8s		110.00nm			6.0mb			1.0s		28.20nm			5.3mb
			SS	37	24.00			BBS	70.17	314	P	25	01.50	-1.4		DKM	75.23	324	iPc	25	40.10	7.5X
			SSS	40	37.00			BAF	70.33	314	P	25	03.50	-0.4			1.1s		65.00nm			5.6mb
KHC	65.79	314	iP	24	35.70	0.2		BSF	70.46	315	eP	25	04.30	-0.4		LPO	75.35	313	eP	25	33.80	0.4
			i	24	40.00				1.0s		34.60nm			5.4mb		DLE	75.35	324	iPc	25	40.80	7.5X
			S	33	27.00			ORO	70.63	312	P	25	05.00	-0.9			1.2s		100.00nm			5.7mb

23d 21h

LFF	75.51	314	eP	25	35.10	0.8		E	20s	35.00um								eS	10	57.00		
	1.2s		30.20nm			5.2mb	SES		94.13	20	eP	27	10.00	1.8	VUN	7.70	57	ePc	10	21.60	-4.1X
DCN	75.70	324	iPc	25	43.20	8.0X	MSO		96.34	23	eP	27	23.00	4.5X		1.5s	1210.00nm				6.3mb	
	1.4s	170.00nm				5.9mb			1.2s	26.00nm				5.6mb				eS	10	54.60		
MLS	76.26	312	iPd	25	38.50	-0.1	WIN		96.48	248	iPc	27	22.00	2.6	RAO	11.63	128	P	11	19.00	0.8	
SET	76.61	304	P	25	40.00	-0.8			1.0s		19.00nm			5.6mb	CRZ	12.09	176	eP	11	23.00	-1.1	
EPF	76.69	312	eP	25	41.30	0.2	HRY		97.15	22	eP	27	27.00	4.9X				S	13	36.00		
EBR	77.70	310	eP	25	42.00	-4.6X	HRF		97.18	22	eP	27	27.50	5.2X	GBZ	14.23	167	eP	11	51.00	-0.8	
			eS	35	43.00		CMT		97.29	22	eP	27	28.10	5.3X	KRP	15.89	169	iPd	12	13.90	1.1	
GDH	78.36	351	iPc	25	50.00	0.3	WDC		98.13	32	eP	27	30.00	3.5X				S	15	15.00		
	0.8s	24.00nm				5.3mb					e	31	24.00		WTZ	16.26	165	eP	12	17.00	-0.3	
			iS	35	45.00		MIN		98.74	32	iP	27	32.50	3.1X	HNR	17.06	317	eP	12	27.00	-0.4	
			iPS	36	10.00						e	31	28.00		GNZ	17.15	163	iPc	12	27.80	-0.4	
			iSS	40	32.00		LD3		98.91	19	(P)	27	34.20	4.2X	SVO	17.36	317	eP	12	33.00	1.9	
YOU	78.71	142	P	25	52.00	-0.2					PP	31	34.50		AFI	17.81	65	P	12	35.00	-1.7	
			e	26	31.40		ORV		99.43	32	eP	27	35.00	2.6				S	15	48.00		
LGR	78.79	313	eP	25	55.80	3.2X					e	31	33.00		BRS	17.87	250	Pc	12	39.30	2.1	
KOU	79.35	122	Pc	25	57.80	1.9	BRK		100.43	34	iPdiff	27	43.50	6.8X				eS	15	43.00		
ALI	79.61	308	eP	25	57.00	-0.1	LHC		100.43	7	ePdiff	27	43.00	6.5X				e	16	08.00		
			eS	36	07.00		BKS		100.43	34	ePdiff	27	43.50	6.7X				e	19	16.00		
TOO	79.80	146	eP	25	58.00	0.0		Z	20s	15.00um				6.5Msz				e	21	02.00		
CAN	79.83	142	P	25	58.30	0.0		N	20s	11.00um								e	25	36.00		
			e	26	36.40			E	20s	19.00um					MNG	18.51	171	iPd	12	43.30	-1.1	
TET	80.00	244	iPc	26	01.00	1.5	JAS		101.22	32	ePdiff	27	49.00	8.7X	WEL	19.08	173	iPd	12	47.80	-2.5	
	1.0s	0.12nm				2.8mb X	GLA		107.82	31	(Pdiff	28	28.80	19.0X				pP	12	58.00	42kmX	
			e	27	57.00						e	32	24.40					S	16	33.00		
WAM	80.43	143	P	26	03.30	1.9					e	32	45.00					PcS	20	47.00		
			e	26	33.10		ALQ		109.48	24	e(Pdif	28	18.00	0.6				ScS	24	16.00		
TOL	81.15	311	eP	26	06.00	0.7	TUC		110.19	28	(PKP)	32	13.00	-9.1X	SNZO	19.09	173	eP	12	48.20	-2.3	
			iS	36	20.00		FVM		110.56	10	(PKP)	32	23.00	0.5	COO	19.50	241	eP	12	56.00	1.1	
			iSS	41	36.00			Z	20s	38.90um				7.0Msz	RIV	21.37	233	Pd	13	07.10	-6.6X	
			iSSS	44	58.00		RLO		111.52	14	ePKP	32	25.50	1.1				e	17	17.00		
BNG	81.38	270	iPc	26	07.40	0.4	SBA		115.17	168	PKP	33	38.00	67.8X	RHP	21.75	183	P	13	18.00	0.5	
	1.0s	23.70nm				5.2mb					PS	44	08.00		MSZ	22.49	187	iP	13	26.00	1.4	
BCAO	81.39	270	eP	26	06.00	-1.0					SS	49	45.00		ESA	23.59	299	Pc	13	36.50	1.0	
MTD	81.92	245	P+	26	09.00	-0.7					e	51	12.00		CAN	23.64	232	Pd	13	37.00	1.1	
TEC	81.99	306	P	26	13.00	3.3X					LR	03	39.00		YOU	23.65	235	Pd	13	46.50	10.5X	
NOU	82.01	122	Pc	26	10.50	0.6	JCT		115.73	20	ePKP	32	31.50	-1.2	CTA	23.79	271	P	13	38.50	1.1	
CRT	82.32	309	eP	26	27.00	15.5X			0.8s	37.30nm								iS	17	48.00		
YKA	82.55	16	P	26	12.50	0.4		Z	20s	39.00um				7.0Msz	WAM	24.13	230	Pd	13	41.90	1.4	
YKC	82.59	16	eP	26	12.00	-0.3					i	33	42.00		RAB	26.12	311	Pc	13	58.00	-1.2	
	1.1s	118.00nm				5.9mb	VHO		129.09	22	iPKP	33	05.00	6.2X				iS	18	46.00		
MAL	83.11	309	eP	26	24.00	8.5X	TRN		135.36	335	ePKP	33	13.80	3.3X	PMG	26.80	295	Pc+	14	05.10	-0.3	
			iPP	29	14.00				1.1s	139.00nm					TOO	27.18	230	Pd	14	09.00	0.3	
			iS	36	33.00		CAR		137.20	343	ePKP	33	15.40	1.2				e	18	38.00		
			iPS	37	22.00			Z	20s	17.60um				6.8Msz				e	24	50.00		
			iSS	41	34.00		TOV		138.56	346	ePKP	33	18.80	2.1X	KVG	28.23	311	Pc	14	16.20	-2.1	
TAM	83.13	292	P	26	15.20	-0.8	SDV		139.60	347	ePKP	33	12.50	-6.2X	STK	28.34	244	Pc	14	19.60	0.4	
PTO	83.31	314	P	26	19.20	2.7	BOG		144.32	352	ePKP	33	25.50	-1.7	LML	28.39	299	eP	14	19.00	-0.8	
			eS	36	36.00		BOCO		144.35	352	iPKP	33	26.20	-1.1	TAU	28.83	219	eP	14	24.00	0.5	
			SS	42	06.00		AAS		146.10	197	ePKP	33	32.00	3.7X				eS	18	44.00		
			SSS	48	16.00		RDJ		147.33	275	PKP	33	29.00	-2.5X	BFD	29.15	233	eP	14	26.00	-0.4	
KRI	83.49	246	eP	26	17.00	-0.8					ePP	37	03.20		CBZ	30.23	183	P	14	38.00	2.3	
SFS	84.46	309	eP	26	31.00	8.6X					ePPP	40	20.40					PcP	17	34.00		
			ePP	29	40.00						ePS	47	46.80		MDG	30.25	300	Pc	14	36.20	-0.1	
			eS	36	50.00		PSO		147.99	357	ePKP	33	45.00	11.7X	KKI	30.51	302	P	14	38.00	-0.6	
			ePS	38	12.00		OAO		149.42	359	PKP	33	42.50	6.9X	MOM	31.03	307	Pc	14	42.70	-0.4	
			eSS	42	16.00		VAO		150.56	278	PKP	33	40.00	3.4X	ADE	31.40	239	Pc	14	46.50	0.2	
			e	48	30.00						e	33	44.20		TBL	31.55	301	P	14	48.00	0.3	
TAU	84.86	148	eP	26	27.00	3.0X					e	33	49.30		WAB	31.77	298	Pc	14	51.00	1.1	
			eS	36	48.00						e	33	55.80		MCO	33.52	193	eP	15	06.00	1.6	
LIS	85.07	313	P	26	37.00	11.6X					e	34	03.30		ASP	34.73	260	Pc	15	14.30	-0.9	
			LR	58	12.00		ZOBO		162.39	324	PKP	33	53.90	1.8X	WB2	34.83	267	Pc	15	14.20	-1.9	
FRB	85.26	355	iPc	26	26.10	0.3	LPB		162.59	323	PKP	33	55.00	2.9X				e	47	38.20		
			pP	26	30.00	12kmX			1.0s	20.00nm					WRA	34.84	267	Pc	15	14.80	-1.4	
BUL	86.15	244	iPc	26	30.00	-1.1					SS	56	08.00			0.8s	281.00nm				6.1mb	
	1.1s	185.00nm				6.2mb	ARE		164.07	333	PKP	33	55.00	1.5	JAY	35.94	299	ePc	15	25.20	-0.3	
			ipP	26	43.00	43kmX					ePPS	52	44.00					eS	20	59.00		
			iS	37	07.00						eSS	05	56.00		AFR	36.49	90	iP	14	32.60	-57.4X	
CNG	87.05	237	eP	26	37.00	1.8					e	21	56.00			0.8s	120.00nm					
	1.0s	80.00nm				5.9mb		S.D. = 1.2 on 306 of 383 obs.							PAE	36.64	90	iP	14	33.50	-57.8X	
			e	27	13.00											0.8s	75.00nm					
PHC	88.07	28	eP	26	47.50	7.7X	JUL 06, 1981 03h 08m 34.91± 0.29s								PPT	36.67	90	iP	14	34.20	-57.3X	
FCC	89.71	8	eP	26	48.00	0.5	22.333 S ± 1.8km 171.670 E ± 1.7km									0.8s	145.00nm					
KSR	90.68	240	eP	26	50.00	-2.7	DEPTH = 123.1 ± 2.6 km								PPN	36.81	90	iP	14	35.10	-57.6X	
PRY	90.85	239	eP	26	54.00	0.6	6.5mb (39 obs.)									0.8s	70.00nm					
EDM	90.96	20	ePd	26	55.00	1.5	LOYALTY ISLANDS REGION (189)								TVO	36.92	90	iP	14	35.90	-57.8X	
PGC	91.29	28	eP	27	00.50	5.5X	Felt (IV) at Noumeo and (II) at									0.8s	95.00nm					
PNT	92.22	25	eP	27	04.00	4.7X	Koumoc, New Caledonio. Probable								PMO	38.90	86	iP	15	48.80	-1.4	
	1.4s	175.00nm				6.2mb	multiple event. Strong phase									0.8s	30.00nm				5.1mb X	
FFC	92.36	13	eP	27	01.00	1.1	observed on mony stations about								VAH	39.08	87	iP	15	50.30	-1.4	
	1.1s	103.00nm				6.1mb	11 seconds after P.									0.8s	45.00nm				5.3mb X	
BLF	93.01	238	eP	27	04.50	1.2									TPT	39.16	86	iP	15	51.20	-1.2	
SCH	93.94	353	eP	27	07.00	-0.1	NOU		4.83	269	P	09	46.50	-0.2		0.8s	60.00nm				5.4mb X	
NEW	94.00	25	eP	27	13.00	5.4X	PVC		5.55	325	Pc	09	58.10	1.6	RUV	39.32	87	iP	15	52.60	-1.1	
	Z 20s	52.00um				7.0Msz	NDF		7.09	51	eP	10	17.00	-0.5		0.8s	80.00nm				5.6mb	
	N 20s	40.00um					SVA		7.63	58	eP	10	24.70	-0.1	MTN	39.67	277	Pc	15	55.50	-1.1	

KNA	40.98	271	Pd	16	07.00	-0.3	SAP	70.81	337	eP	19	41.00	1.2	CD2	83.91	307	P	20	52.60	0.2
WBN	41.14	255	Pc	16	08.60	0.0				eS	28	50.00					iS	31	09.00	
GUA	44.26	321	e(P)	16	34.40	0.4	KGM	70.84	280	ePc	19	40.50	-0.1	BTO	84.84	318	P	20	57.50	0.6
	1.8s	6040.00nm			7.0mb			1.4s	4490.00nm			7.1mb		KDC	85.21	18	eP	20	58.60	0.4
			ePP	16	45.60					i	19	53.00		NVL	86.08	187	Pd	21	05.00	2.5
			eS	23	27.00					e(S)	22	12.00					ipP	21	11.00	19kmX
GUMO	44.33	321	e(P)	16	34.00	-0.5				e	28	55.00		SAO	86.17	48	iP	21	03.40	-0.1
PJG	44.33	321	eP	16	34.30	-0.2	HKC	71.45	305	P	19	45.00	1.0				i	21	17.00	
			ePP	16	46.30					S	29	00.00					P'P'	47	17.00	
			e	21	21.80		SSE	71.87	316	iPc+	19	46.00	-0.3	BKS	86.22	46	ePc	21	04.40	0.7
			e	22	11.50			Z 22s		72.20um		6.9Msz			1.3s	1400.00nm			6.7mb	
KLG	45.39	248	Pc	16	42.10	-0.7		N 23s		84.40um					Z 20s	61.00um			7.0Msz	
AAI	46.00	287	ePd	16	47.30	-0.5		E 22s		59.00um					N 20s	36.00um				
	1.7s	5510.00nm			7.0mb					PP	20	24.00			E 20s	44.00um				
KUPT	47.52	277	eP	17	01.50	1.7				SP	20	38.00					eS	31	34.50	
	1.2s	6350.00nm			7.3mb					PP	22	26.00					eSS	37	18.00	
MBL	47.97	261	iPc	17	02.80	-0.4				PPP	24	12.00					eSSS	41	08.40	
	1.0s	780.00nm			6.4mb					S	28	50.50					e	47	24.00	
MEK	48.26	254	iPc	17	04.40	-1.0				SKS	29	34.00		SEY	86.31	351	Pc	21	03.00	-0.5
DRV	48.66	196	P-	17	06.60	-1.3				PS	29	42.00					ipP	21	14.80	38kmX
			ePP	19	00.80		GZH	72.52	305	Pc	19	51.00	0.7				iS	32	08.00	
			eS	24	03.80					iS	29	05.00		MHC	86.34	47	iP	21	05.00	0.5
			e	30	00.00		PPI	72.53	277	eP	19	49.50	-1.1				i	21	19.00	
NWAO	48.91	245	Pc	17	10.10	-0.2	YSS	73.81	340	Pc	19	58.00	0.7				P'P'	47	13.00	
RKT	48.99	102	iP	17	10.00	-1.0				epP	20	05.00	22kmX	PRI	86.39	49	iP	21	05.50	0.8
	0.8s	35.00nm			5.2mb X					iS	29	24.40					i	21	19.00	
MUN	49.82	246	Pc	17	17.10	-0.2	SKR	73.97	350	Pc	19	57.60	-0.6				P'P'	47	15.00	
MNI	51.41	291	eP	17	29.00	-0.5				eS	29	26.00		ARN	86.42	47	iP	21	07.00	2.3
			eS	24	42.20		IPM	73.98	282	ePc	19	58.40	-0.7				e	25	03.50	
NAU	51.64	258	eP	17	31.00	-0.2				i	20	34.20		LZH	86.47	311	Pc	21	06.30	1.1
KIP	52.59	36	eP	17	39.00	0.9				i	20	53.50					SKS	31	22.00	
			eS	25	00.00					i	21	03.20					S	31	34.00	
MKS	53.18	281	iPd	17	43.30	0.6				i	21	29.50		FHC	86.65	43	iP	21	06.60	0.8
	1.0s	943.00nm			6.7mb					i	22	42.30		AAS	86.85	159	iP	21	07.70	1.3
PPH	53.71	299	ePc	17	47.60	1.1				i	23	13.40			1.0s	720.00nm			6.6mb	
	0.8s	839.00nm			6.7mb					i	41	25.80					i	21	15.90	
			i	17	58.00		NJ2	74.00	315	Pc	19	58.00	-0.8	PAS	87.16	51	iPc	21	09.00	0.7
			eS	25	10.50					iS	29	24.00			1.2s	900.00nm			6.6mb	
DAV	53.78	298	Pc	17	46.00	-1.0				ScS	30	00.00			Z 20s	27.00um			6.7Msz	
CGP	55.27	298	ePd	17	57.00	-0.8	ADK	74.60	7	eP	20	01.70	-0.1		N 20s	6.00um				
	1.0s	628.00nm			6.5mb		VLA	74.71	331	Pc	20	00.40	-2.2		E 20s	22.00um				
SBA	55.62	181	iPd	17	59.80	0.2	SMY	74.77	2	eP	20	02.60	-0.1				ePP	21	22.00	
			S	25	43.00		PSI	75.13	279	ePd	20	05.10	-0.5				ePP	24	36.00	
PLP	56.60	301	eP	18	06.70	-0.7		1.5s	1070.00nm			6.4mb					eSKS	31	24.00	
TRT	58.50	275	iPd	18	21.30	0.5	SNG	75.44	284	iPc	20	08.30	0.9				iS	31	45.00	
			iS	21	54.50			1.2s	103.00nm			5.5mb					eSS	32	08.00	
LGP	58.75	302	ePd	18	21.00	-1.4				eS	29	41.30					e	47	05.00	
	1.0s	763.00nm			6.7mb		TSI	75.78	280	ePd	20	07.00	-2.3	SVW	87.24	15	eP	21	08.10	-0.1
KKM	61.14	291	iPc	18	39.10	0.2	PET	75.88	352	Pc	20	08.00	-1.0	WDC	87.46	44	iPc	21	10.00	0.4
	1.5s	3260.00nm			7.1mb					S	29	44.00					i	21	21.00	
			I	20	11.90		WHN	76.10	312	P	20	10.50	-0.3				P'P'	47	17.00	
PGP	61.15	301	eP	18	39.90	1.1				PP	22	58.00		JAS	87.47	47	iPc	21	09.90	0.2
OCP	61.70	302	P	18	41.00	-1.5				S	29	44.00					i	21	23.00	
MAN	61.71	302	eP	18	43.00	0.4				SKS	30	08.00					P'P'	47	14.00	
			eS	19	11.50		MAW	76.43	202	eP	20	12.00	-0.1	FRI	87.48	48	iP	21	09.90	0.1
BAG	63.12	303	Pc	18	49.00	-3.1X				e	29	50.00					P'P'	47	14.00	
SZP	63.89	304	ePd	18	59.00	2.1	TIA	77.75	318	Pc	20	19.70	-0.1	SNA	87.51	182	iPd	21	08.50	-0.9
PIP	64.23	305	iPc	19	02.00	3.0X				S	30	04.00			1.0s	2.60nm			4.2mb X	
KYS	64.56	332	eP	19	02.50	1.6	PCT	78.02	291	eP	20	22.80	1.1				e	31	32.00	
OYM	65.14	331	eP	19	03.70	-1.0		0.8s	143.00nm			5.8mb		ORV	87.59	45	iPc	21	10.50	0.2
MIR	65.23	206	Pd	19	03.50	-1.3	CN2	78.27	328	Pc	20	22.00	-0.5	MIN	87.94	45	iP	21	11.90	-0.2
			iS	27	39.00		GYA	79.44	304	P	20	30.20	0.8	TTA	88.73	14	eP	21	15.70	0.4
SRY	65.29	331	eP	19	04.60	-1.0				S	30	24.00		GLA	89.10	54	iPc	21	18.30	0.6
TSK	65.43	332	eP	19	05.40	-1.1				ScS	31	21.00					e	23	56.80	
DDR	65.65	331	eP	19	07.40	-0.6	BJI	80.76	320	Pc+	20	36.50	0.6	COR	89.14	40	iPc	21	21.00	3.5X
HEN	66.36	308	eP	19	15.00	2.3		Z 19s		44.20um		6.8Msz		MNV	89.27	48	iP	21	18.20	-0.3
ABU	66.40	328	ePc	19	12.00	-0.7		N 22s		57.00um				PMR	89.35	18	eP	21	16.50	-1.6
TTN	66.54	309	P	19	17.00	3.2X				eS	30	37.00		EAM	89.57	9	eP	21	21.20	2.0
MAT	66.54	331	iPc	19	12.00	-1.6	SDN	80.93	16	eP	20	36.40	0.0	PHC	90.30	34	eP	21	24.00	1.3
	1.6s	1730.00nm			6.7mb		BDT	81.24	293	eP	20	43.20	4.4X		1.0s	821.00nm			6.8mb	
			eS	27	56.00			1.4s	1700.00nm			6.6mb					PP	21	37.00	
HWA	66.97	310	P	19	13.20	-3.3X	TIY	81.64	316	Pc	20	41.30	0.7	YAK	90.48	342	Pc	21	22.10	-1.2
			eS	28	04.80					S	30	46.00					ipP	21	31.90	31kmX
SHK	67.61	326	iPc	19	19.40	-1.0	KMI	81.82	301	Pc	20	42.80	0.7	TOA	90.61	18	eP	21	23.10	-0.9
			Sn	28	10.70					PP	23	57.00		AGT	90.63	295	P	21	20.00	-4.8X
TATO	67.70	311	eP	19	20.00	-1.1				S	30	49.00					SKS	31	42.00	
TCU	67.74	310	P	19	21.20	-0.2	XAN	81.86	312	Pc	20	42.30	0.4	SHW	90.64	39	eP	21	25.30	0.7
SPA	67.80	180	iPc	19	20.40	-1.0				PP	23	55.00					e	21	57.40	
	1.0s	485.00nm			6.3mb					S	30	48.50					ePP	25	07.50	
Z	20s	82.60um			7.0Msz		CHG	81.99	294	iPc	20	44.00	1.2	SIT	90.69	26	eP	21	25.10	0.8
ANP	67.81	311	P	19	21.00	-0.9		1.4s	823.00nm			6.3mb		SHL	90.79	297	P+	21	26.00	0.2
			S	27	50.00					eS	30	48.00					SKS	31	54.00	
SHO	69.72	341	Pc	19	32.00	-1.1	AIA	82.86	159	iP	20	45.80	-0.6	BMN	90.87	46	iP	21	27.00	1.2
QZH	69.73	309	Pc	19	33.00	-0.6				e(S)	30	57.00			1.1s	307.00nm			6.4mb	
			iS	28	31.00		MGD	83.89	350	ePc	20	49.00	-2 6				iPP	25	14.50	
KUR	70.65	342	Pc	19	39.00	0.2				epP	21	01.00	39kmX				e	38	42.20	
			iS	28	49.00					iS	31	03.00		GTA	90.89	313	Pc	21	26.40	0.5

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			iSKS	31	47.00					ePS	35	12.00			QUE	113.12	294	ePdiff	23	07.00	0.8
			iS	31	58.00					eSS	40	28.00			DSH	113.36	304	Pdiffc	23	07.30	0.4
PCA	90.97	22	eP	21	25.40	-0.4				eSSS	43	28.00			TAS	113.45	307	ePdiff	23	09.00	1.9
LON	91.18	39	iPd	21	27.50	0.5	JCT	99.80	61	eP	22	06.50	-0.2		TKL	114.13	60	iPKPd	27	03.10	1.6
	1.2s	320.00nm			6.4mb			Z 20s	21.60um			6.7Msz						eS	36	44.70	
PGC	91.27	37	eP	21	26.60	-0.6	UER	99.84	322	Pc	22	05.00	-1.2					i	37	54.70	
EUR	91.27	48	iP	21	27.80	0.0	MDZ	100.33	132	e(Pdif	22	12.40	3.3X		BOG	114.18	95	ePdiff	23	16.00	4.6X
	0.5s	41.20nm			5.9mb		TLL	100.47	129	Pdiff	22	13.00	2.9X		SAM	114.92	305	ePdiff	23	14.00	0.3
TUC	91.83	56	iPd	21	32.30	1.9	WMO	100.97	313	Pdiffc	22	11.50	-0.3		UTO	115.27	53	ePKPd	28	10.00	66.5X
Z	18s	2.92um			5.8MszX		CFA	101.48	131	Pdiff	22	17.40	3.1X		GRM	115.43	212	ePdiff	23	15.00	-1.1
		ePP	25	12.00			YKA	102.36	27	Pdiff	22	24.50	7.2X			1.1s	190.00nm				
IMA	91.96	13	eP	21	21.20	-9.1X	YKC	102.41	27	ePdiff	22	22.00	4.4X		Z	18s	17.00um			6.7Msz	
COL	92.38	16	iP	21	30.30	-1.8		1.6s	113.00nm			6.4mb						i	27	04.50	
Z	19s	56.30um			7.0Msz		SEH	102.47	290	Pdiff+	22	16.00	-2.7X		KHE	115.69	350	ePdiff	23	20.00	3.8X
		eS	32	24.00			GOA	102.84	282	Pdiff	22	17.00	-3.5X		FDA5	116.22	137	PKP	27	09.30	3.4X
FBA	92.38	16	eP	21	30.00	-2.1				SKS	32	46.00						e	27	23.00	
CAL	92.53	293	P	21	38.00	4.4X	VCA	103.14	129	Pdiffd	22	27.00	5.1X					e	27	32.10	
		PP	25	30.00			LPS	103.63	80	Pdiff	22	26.00	1.8		CLE	116.77	54	iPKPd	27	08.30	2.0
		SKS	32	00.00						PP	27	09.00						(SKS)	36	02.00	
BOD	93.05	333	eP	21	34.00	-1.2				SKS	33	20.00			CNG	117.74	221	ePKP	27	08.00	-0.6
LSA	93.07	301	Pc	21	37.90	1.3				SKKS	34	12.00						e	28	22.00	
		SKS	32	02.90			POO	103.82	285	Pdiff+	22	26.50	1.6					e	38	12.00	
PNT	93.77	38	eP	21	39.00	0.2				SKS	32	59.00			UAV	118.33	92	ePKP	27	11.10	0.8
	1.2s	413.00nm			6.6mb		NDI	104.10	295	iPdiff	22	25.00	-0.9		CER	118.67	206	e(PKP)	27	10.00	-0.2
		PP	21	05.90			Z	21s	26.90um			6.8Msz			SDV	118.90	92	iPKPc	27	13.60	2.2
ZAK	94.12	323	Pc	21	40.50	0.2				iS	32	53.50				0.9s	139.00nm				
TMU	94.53	135	eP	21	39.00	-3.7X				iSSS	41	35.00			BLF	119.00	215	e(PKP)	27	11.00	-0.2
IRK	94.53	325	ePc	21	41.00	-1.2	ANT	104.26	123	Pdiff	22	27.00	0.3		SVE	119.89	324	ePdiff	23	37.00	1.7
		epP	21	53.00	39kmX					pP	23	07.00			TOV	119.99	91	iPKPc	27	15.70	2.4
		esP	21	55.00						PP	26	45.00				1.0s	489.00nm				
		eS	32	43.00						i	27	15.00			PRY	120.02	217	e(PKP)	27	13.00	-0.2
NEW	94.69	39	eP	21	43.00	-0.1				PPP	29	09.00						e	37	23.00	
Z	19s	30.00um			6.8Msz					SKS	32	43.00			TGI	120.14	296	ePKP	27	14.00	0.7
N	19s	13.00um								SP	35	53.00			NPA	120.37	236	ePKP	27	17.00	3.1X
E	19s	18.00um								SSP	36	33.00						e	28	21.00	
CHA	95.19	297	P-	21	48.30	2.5				SS	41	33.00			KHI	120.76	297	ePKP	27	14.00	-0.4
BOK	95.21	293	P	21	45.70	-0.2				SSS	45	37.00			ARU	121.05	323	ePdiff	23	42.00	1.6
		PP	25	30.70			SIO	104.26	57	e(Pdif	22	28.90	2.5X		OTT	121.26	50	ePKP	27	14.00	-0.7
		SKS	32	10.00			TUL	104.71	57	e(Pdif	22	32.50	4.1X			0.9s	77.00nm				
CON	95.27	133	P	22	49.00	62.9X		1.5s	58.40nm			6.4mb						PP	27	56.00	
YKM	95.80	39	iP	21	51.40	3.1X		Z 18s	17.40um			6.6Msz			VAN	121.60	302	ePdiff	23	45.00	1.6
LDM	95.84	40	iP	21	51.70	3.3X	BOM	104.87	285	Pdiff	22	34.00	4.6X		CIR	121.93	225	ePKP	27	17.00	0.2
MSO	95.95	42	iPc	21	50.30	1.3				SKS	33	04.00						ipPKP	27	29.00	
	1.5s	143.00nm			6.2mb		ELT	104.92	322	Pdiff	22	27.20	-1.7					ePP	29	07.00	
MOY	96.03	324	Pc	21	48.30	-0.7	CYA	105.04	130	Pdiff	22	32.60	2.5X					iPKKP	37	19.00	
RXF	96.15	39	iP	21	51.20	1.4	RLO	105.38	57	ePdiff	22	36.20	4.8X		KBS	122.60	355	iPKP	27	16.70	0.4
ALQ	96.19	55	eP	21	49.20	-1.3	BHK	105.57	298	Pdiff	22	30.00	-2.4X		MNT	122.73	49	iPKPd	27	17.00	-0.5
	1.0s	66.30nm			6.1mb					SKS	33	03.00						PP	28	00.50	
Z	18s	32.60um			6.8Msz		FFC	105.88	37	ePdiff	22	37 00	3.9X		CAR	122.88	92	iPKPc	27	20.80	1.9
		e	22	03.00				1.1s	18.00nm			6.1mb				0.7s	35.60nm				
MDR	96.19	281	P	21	51.80	1.3	LPA	106.14	139	Pdiffd	22	35.00	0.2		CAR	122.88	92	ePdiff	24	02.00	12.3X
		SKS	32	07.80			LPA	106.14	139	PKP	26	47.00	0.7		FRB	122.88	27	iPKPd	27	16.60	-0.6
ANMO	96.19	55	eP	21	51.00	0.5				PP	27	00.00				1.5s	271.00nm				
AMM	96.24	43	ePd	21	50.90	0.5				PPP	29	17.00			KAT	123.12	303	PKPc	27	19.50	1.0
BUT	96.45	43	ePd	21	54.30	3.0X				SKS	33	14.00			CLK	123.20	232	PKP-	27	20.00	0.6
BDW	97.05	47	iPc	21	55.20	1.0				SP	36	08.00						ipPKP	27	31.00	
	1.5s	162.00nm			6.3mb		MBC	106.70	13	ePdiff	22	40.00	3.7X					iPP	29	11.00	
		e	24	16.50				0.9s	28.00nm			6.4mb						iPKKP	37	14.00	
		iPP	25	53.60			ARE	107.14	116	ePdiff	22	47.00	7.0X		RDJ	123.65	141	Pdiff	23	57.00	4.2X
YTC	97.23	45	(P)	21	57.50	2.5				ePP	27	38.00						i	24	34.00	
TRD	97.51	276	P+	21	58.50	2.0				eSKS	33	08.00			RDJ	123.65	141	ePKP	27	18.00	-2.0
		SKS	32	32.50						ePS	36	20.00						ePP	29	06.00	
VHO	97.81	75	iP	22	02.00	4.0X	LAH	107.32	298	ePdiff	22	45.00	4.9X		SHD	124.00	300	iPKPc	27	22.00	1.4
TIK	98.22	347	eP	21	57.00	-1.5	SLA	107.42	127	Pdiffd	22	40.80	-0.1		BUL	124.47	223	ePKP	27	23.00	1.1
		epP	22	08.00	35kmX		MNL	108.22	299	ePdiff	22	43.70	-0.4					ipPKP	27	34.00	
		eS	33	12.00			NRN	108.53	308	ePdiff	22	46.00	0.3					iPP	29	20.00	
SAN	98.75	131	eP	22	04.00	2.0	NIL	108.75	299	ePdiff	22	47.50	1.0					iPKKP	37	08.00	
INK	98.76	18	ePc	22	00.30	-0.7	FVM	109.40	56	(Pdiff	22	52.30	3.1X		MTD	124.88	229	ePKP	27	23.00	0.3
	2.0s	724.00nm			6.9mb		Z	18s	6.50um			6.2Msz						ipPKP	27	34.00	
		PP	22	36.00						e	38	21.50						iPP	29	20.00	
GOL	98.79	51	eP	22	02.70	0.6	LPB	109.90	118	Pdiff	22	57.00	4.6X					iPKKP	37	06.00	
	1.2s	52.60nm			6.0mb					SKS	33	21.00			CUM	125.42	93	ePKP	27	32.00	8.4X
Z	20s	65.20um			7.1Msz					PS	37	31.00			BAO	125.84	131	e(PKP)	26	52.00	-32.6X
		e	22	14.40						e	00	24.00			SJG	125.85	83	iPKP	27	24.00	-0.5
GBA	98.90	281	Pc	22	03.30	0.6	ZOBO	110.01	118	Pdiff	22	58.60	5.5X					iPcP	28	06.20	
	2.0s	874.00nm			7.0mb		PSH	110.29	299	ePdiff	22	56.00	2.7X					ePP	29	42.00	
PEL	98.91	131	P+	22	03.00	0.3	WRS	110.35	299	ePdiff	22	51.50	-2.0		MIM	125.97	50	iPKP	27	23.50	-0.4
GLD	98.92	51	eP	22	04.00	1.4	KHO	111.01	303	Pdiff	22	50.00	-6.6X					e	28	06.00	
Z	18s	20.90um			6.7Msz		ANR	111.07	307	ePdiff	22	57.00	0.4					e	28	17.10	
		e	22	15.70			AVY	111.57	238	iPKPc	26	57.30	0.1		SCH	126.05	38	ePKP	27	23.00	-0.8
EDM	99.07	36	eP	22	02.50	-0.3	GAR	112.26	304	ePdiff	23	03.00	0.9			0.9s	78.00nm				
SES	99.20	39	eP	22	03.00	-0.5	LHC	112.27	45	ePdiff	23	12.00	10.4X		KRI	126.20	227	ePKP	27	24.00	-1.3
	1.4s	295.00nm			6.7mb		RES	112.27	17	ePdiff	23	06.00	4.9X					ipPKP	27	35.00	
HYB	99.23	285	eP	22	04.00	-0.3		1.2s	32.00nm									iPP	29	29.00	
		ePP	26	04.00			KAAO	112.35	299	e(Pdif	23	03.00	0.3					iPKKP	37	00.00	
		eSKS	32	33.50			KBL	112.35	299	e(Pdif	23	04.10	1.4		TEH	126.84	299	ePKP	27	29.00	2.9X
		eS	33	30.00			KUL	112.48	303	ePdiff	23	03.00	0.1		APA	127.92	341	ePdiff	24	13.00	2.4

06d 03h

TRN	128.04	94	ePKP	27	27.10	-1.6	KIS	141.28	319	PKP	27	42.00	-10.5X		1.0s	241.00nm							
	1.0s	200.00nm					CFR	142.52	316	ePKP	27	51.00	-3.8X	ESK	146.84	355	iPKPc	28	03.00	1.3		
BAK	128.04	304	PKPc	27	32.00	4.1X	WAR	142.58	330	iPKP	27	49.00	-5.6X		1.5s	1000.00nm							
KEV	128.10	345	ePdiff	24	12.00	0.6				ePP	31	06.00		PRA	147.04	333	iPKPc	28	02.00	-0.2			
KEV	128.10	345	ePKP	27	28.00	0.8	GPA	142.80	308	ePKP	27	51.50	-4.0X				PP	31	25.00				
			i	27	42.20		ODB	142.95	318	ePKP	27	52.00	-3.5X				e	42	28.00				
			ePP	29	25.00					i	28	08.00		PRU	147.06	333	PKPc	28	02.00	-0.2			
MAK	129.71	308	ePdiff	24	22.00	2.8X	VRI	143.12	318	ePKP	27	52.00	-3.8X		Z 27s	127.00um				7.6MszX			
ATA	129.73	266	iPKP	27	34.80	2.9X	COP	143.29	340	iPKP	27	52.00	-3.7X		N 26s	82.20um							
OBO	129.82	267	iPKP	27	35.60	3.5X				i	28	43.00			E 26s	63.60um							
SOD	129.94	343	ePKP	27	28.00	-2.7X				iPP	31	06.00					PP	31	30.00				
			i	27	41.30		ALT	143.30	306	iPKPc	27	53.20	-3.3X				SKS	35	22.00				
			ePP	29	40.00		BCK	143.33	303	iPKP	27	53.30	-3.2X				e	39	00.00				
			eSKP	30	42.00		ISK	143.46	310	iPKP	27	53.80	-2.7X				PS	41	56.00				
			e	31	12.00		ISR	143.56	317	ePKP	27	53.00	-3.7X				SS	51	10.00				
TRO	129.95	348	ePKP	27	37.00	6.3X	BKT	143.70	308	iPKP	27	56.60	-0.6	ZST	147.17	328	iPKP	28	00.90	-1.6			
ARO	130.08	266	iPKP	27	35.70	3.0X	MLR	143.78	318	ePKP	27	55.00	-2.1		Z 22s	97.60um				7.5Msz			
NAI	130.14	248	ePKP	27	35.00	2.0				iPP	31	10.00					i	28	07.00				
	2.0s	1410.00nm								eSKKS	38	06.00					i	28	45.70				
KER	130.30	297	ePKP	27	32.00	-0.7				ePPS	43	40.00					i	31	50.00				
DAF	130.40	266	iPKP	27	36.60	3.4X	CTT	143.89	310	iPKP	27	54.60	-2.7X	SRS	147.27	312	PKP	28	02.20	-0.7			
KRV	130.74	305	ePKP	27	19.00	-14.1X	ELL	144.02	302	iPKP	27	55.00	-2.8X	OUR	147.33	311	PKP	28	02.80	-0.2			
GRS	130.82	303	PKPc	27	34.40	0.9	BMR	144.11	323	ePKPd	27	56.00	-1.4	BEO	147.45	320	PKP	28	02.20	-0.8			
TAB	130.90	302	ePKP	27	32.00	-1.7	DMK	144.12	311	iPKP	27	54.40	-3.2X				i	31	33.00				
			e	27	34.00		BUC	144.18	316	ePKP	27	56.00	-1.6	WIT	147.47	343	ePKP	28	04.50	1.7			
GRO	130.94	309	PKPc	27	34.00	0.6				ePP	31	10.50					i	28	09.50				
KIR	131.11	346	PKP	27	33.60	0.6	UZH	144.22	325	PKPc	27	58.00	0.4				e	28	18.00				
			iPP	29	54.30		DST	144.24	307	iPKP	27	55.60	-2.4	VIE	147.49	329	iPKP	28	02.50	-0.5			
MTA	131.79	307	ePKP	27	21.00	-14.0X	BUC1	144.25	316	ePKP	27	56.00	-1.7				i	28	08.00				
KJF	131.86	340	iPKP	27	31.70	-2.8X	MDB	144.41	320	ePKP	28	00.00	2.0				PP	31	29.00				
			i	27	36.90					i	28	14.00					e	35	22.00				
			ePP	29	52.00		CMP	144.44	318	ePKPc	27	53.00	-5.1X	VKA	147.50	329	ePKPc	28	01.00	-2.0			
			iPKS	31	00.20		KRA	144.53	328	iPKPc	27	55.60	-2.5				i	28	04.00				
			i	31	19.10			1.5s	1100.00nm								pPKP	28	18.00				
			PS	39	54.00					e	27	56.50					PP	31	30.00				
MOS	132.50	327	ePdiff	24	34.00	2.7X				i	28	04.50		PAIG	147.70	310	PKP	28	04.30	0.7			
BHD	132.55	295	PKP	27	28.00	-8.7X				i	28	08.20		MOX	147.72	336	iPKP	28	03.00	-0.3			
			ePP	27	39.50					i	31	36.00					i	28	18.00				
			ePPP	27	51.00					e	37	00.00					e	29	18.00				
			e	29	16.00		EDC	144.56	309	iPKP	27	56.70	-1.7				SKSP	42	00.00				
			i	30	09.00		CEI	144.68	323	ePKP	27	58.00	-0.4				e	23	18.00				
			iPcP	30	56.00					i	28	10.00		KNT	147.73	313	PKP	28	03.30	-0.3			
			iS	31	18.00		NIE	144.76	327	iPKPc	27	57.00	-1.5	HOF	147.89	335	ePKP	28	03.90	0.3			
			e	33	25.00					i	28	08.50		THE	147.91	312	PKP	28	03.70	-0.2			
			eLQ	35	49.00		MFT	144.83	310	iPKP	27	56.80	-2.2	HPK	148.02	353	PKP	28	04.00	0.4			
			eLR	36	46.00		GET	144.85	309	ePKP	27	56.00	-3.0X	KHC	148.12	332	PKP	28	04.00	0.0			
LEN	132.61	305	ePKP	27	36.00	-0.9	SPC	144.94	327	iPKP	27	57.70	-1.4		Z 32s	95.00um				7.4MszX			
PYA	132.72	310	ePdiff	24	32.00	-0.6		Z 19s	57.10um			7.4Msz			N 32s	71.00um							
BKR	132.74	307	ePKP	27	29.00	-8.1X				i	28	10.30			E 32s	74.00um							
AAE	132.96	261	ePKP	27	39.20	0.7				i	28	32.70					i	28	07.60				
OBN	133.28	326	ePdiff	24	36.00	1.3	DRA	145.22	318	ePKP	27	57.00	-2.4				e	31	50.50				
SUF	133.39	339	ePKP	27	24.00	-13.4X	JOS	145.23	326	PKPc	27	59.40	0.1				e	42	28.00				
PUL	133.77	334	ePdiff	24	38.00	1.2				e	28	00.00		GRG	148.15	313	e(PKP)	28	03.40	-1.0			
SOB3	134.61	131	PKP	27	38.00	-3.2X				e	29	05.00		WTS	148.16	342	ePKP	28	04.00	0.1			
			e	27	42.90					e	35	40.00					i	28	08.80				
SOB4	134.76	131	ePKP	27	37.80	-3.7X	PVL	145.34	315	PKPc	27	59.00	-0.6				e	28	19.00				
SOB2	134.96	131	PKP	27	34.60	-7.2X	DIM	145.53	313	ePKP	27	59.00	-1.0	ATH	148.40	307	iPKPc	28	01.60	-3.2X			
SOC	135.18	310	ePdiff	24	42.00	-1.5	IZM	145.62	306	iPKPc	27	59.90	-0.5	WET	148.40	333	ePKP	28	02.50	-2.0			
NUR	135.45	337	ePdiff	24	44.00	-0.2	BRL	145.63	336	ePKP	28	00.50	0.7	LIT	148.46	311	PKP	28	04.70	-0.2			
NUR	135.45	337	iPKP	27	40.90	-0.5	KSP	145.67	332	iPKPc	27	59.70	-0.3	DMU	148.46	358	ePKP	28	05.70	1.3			
			i	28	08.50		BRN	145.71	336	iPKPc	28	00.20	0.3		1.7s	980.00nm							
			ePP	30	08.00		EZN	145.85	309	iPKP	28	00.30	-0.3	BNG	148.48	240	iPKPd	28	05.00	-0.6			
			ePKS	31	10.00		KDZ	145.85	312	ePKP	28	00.00	-0.6		1.7s	81.80nm							
AKU	136.19	6	ePKP	27	43.70	1.1	PSZ	145.93	325	PKP	28	00.00	-0.6	DBN	148.51	344	ePKPc	28	06.00	1.6			
	1.0s	500.00nm					HAM	145.95	340	iPKPc	28	01.20	0.9		Z 20s	1.00um				5.6MszX			
			i	27	54.10		BRG	146.63	334	iPKPc	28	01.90	0.4				ePP	31	38.00				
			i	30	21.30					PP	31	21.00					ePPP	35	02.00				
STJ	136.55	44	ePKP	27	49.80	5.9X				e	44	36.00					S	42	20.00				
REY	137.24	9	ePKP	27	46.80	2.1	BUD	146.66	325	PKP	28	01.00	-0.7	GRF	148.64	335	iPKPc	28	02.90	-1.9			
			i	30	30.70					e	28	05.00			Z 22s	46.00um				7.2Msz			
UPP	138.27	341	PKP	27	43.70	-3.0X				e	28	14.00					e	28	09.40				
			i	28	04.30					ePP	31	28.00		KMR	148.67	330	iPKPc	28	03.80	-1.1			
			iPP	30	38.00		SSR	146.66	320	PKP	28	01.10	-0.7				i	28	16.00				
KVT	138.38	307	ePKP	27	38.00	-9.6X				iPP	31	20.00					i	28	25.00				
HFS	139.17	343	PKP	27	39.10	-9.3X	CLL	146.66	335	iPKPc	28	01.20	-0.4				i	31	41.00				
	0.8s	14.00nm								i	28	06.00					e	31	27.00				
			e	26	00.00					PKP	28	15.00		DDK	148.96	358	ePKP	28	04.80	-0.3			
UNJ	139.75	294	PKP	27	45.00	-5.4X				i	28	27.00			1.6s	500.00nm							
KAS	139.98	308	ePKP	27	44.30	-6.2X				i	28	37.00		BNS	148.97	341	iPKPc	28	05.80	0.6			
			i	27	52.30					PP	31	34.00					iPP	31	44.00				
			i	28	04.80					PKS	31	48.00					iSS	42	17.50				
KON	140.61	346	ePKP	27	43.00	-7.9X				(SKS)	35	20.00		DCN	149.03	359	ePKP	28	06.50	1.2			
			i	27	48.00		SRO	146.81	326	ePKP	28	01.00	-0.9		1.6s	1040.00nm							
BER	140.78	349	iPKP	27	46.70	-4.5X				i	28	22.00		DLE	149.07	358	ePKP	28	06.40	1.1			
ANTO	141.08	306	ePKPd	27	47.00	-5.6X				i	28	51.00			1.7s	620.00nm							
	1.5s	56.80nm								e	29	30.00		DKM	149.09	358	ePKP	28	06.50	1.1			
MGN	141.25	308	iPKP	27	49.60	-3.2X	EKA	146.82	355	PKPd	28	04.30	2.6X		1.6s	370.00nm							

06d 03h

TTG	149.49	318	PKP	27	05.00	-61.3X	PNI	154.07	334	PKP	28	11.50	-1.4		31.363 S ± 3.4km			110.694 W ± 3.2km							
			S	34	25.00		ROB	154.34	332	PKP	28	12.00	-1.4		DEPTH = 10.0km (geophysicist)										
BHG	149.49	331	ePKP	28	06.00	-0.2	MZF	154.58	342	iPKPc	28	14.10	0.6		6.1mb (10 obs.) 6.3Msz (13 obs.)										
ENN	149.51	342	ePKP	28	06.50	0.5	TCF	154.61	343	iPKPc	28	13.60	0.0		EASTER ISLAND REGION										(685)
			i	28	12.10		STV	154.62	333	PKP	28	13.30	-0.4												
BGG	149.58	340	ePKP	28	06.50	0.3	LSF	154.83	344	iPKPc	28	13.90	0.1	SAN	33.72	104	P	41	00.50	-0.2					
TIR	149.66	315	PKPc	27	58.60	-8.0X	PYM	154.87	341	PKP	28	13.50	-0.5	PEL	33.74	104	Pc	41	00.30	-0.6					
FUR	149.83	333	iPKPc	28	06.50	-0.2	MFF	154.90	347	iPKPc	28	14.20	0.3				eS	46	32.00							
			i	28	13.10		CVF	155.24	329	iPKPc	28	14.40	-0.1				eScP	47	16.00							
			i	28	20.50		GIB	155.26	314	PKP	28	12.50	-2.3				eSS	48	45.00							
			e	42	45.00					e	36	21.00					eSSS	49	24.00							
UCC	149.91	344	PKPc	28	07.40	0.8	LRG	155.66	333	iPKPc	28	15.30	0.2				e	49	50.00							
			e	28	12.50		LMR	155.70	333	iPKPc	28	15.20	0.1	TLL	34.17	99	P	41	05.50	0.6					
			e	28	23.90		RJF	155.71	343	iPKPc	28	15.50	0.4	CEN	35.61	102	eP	41	17.00	0.0					
			PP	31	54.00		CDR	155.72	335	PKP	28	15.00	-0.2	CFA	36.04	102	Pc	41	20.00	-0.5					
			PPP	35	10.00		ROG	155.89	335	ePKP	28	15.50	0.1				PP	42	52.00							
			e	42	20.00					i	28	40.00					S	47	12.00							
LJU	149.92	327	iPKP	28	07.30	0.4				i	28	43.30		PT03	36.34	70	eP	41	25.50	2.3					
			i	28	17.00					i	29	34.00		ANT	36.37	88	P	41	22.00	-1.3					
			i	28	43.10					iPP	32	23.60					PP	42	48.00							
STU	150.16	336	ePKPc	28	07.00	-0.1				i	32	32.00					S	46	40.00							
	2.0s	235.00nm					CAF	155.90	342	iPKPc	28	16.00	0.6	NNA	36.68	66	iP	41	26.00	0.0					
ECP	150.17	358	iPKPc	28	08.40	1.4	LFF	156.26	344	iPKPc	28	16.20	0.4				iS	42	56.00							
	2.0s	2760.00nm					LPO	156.37	343	iPKPc	28	16.50	0.5	VCA	36.71	97	P	41	27.50	1.1					
VAL	150.41	2	PKPd+	28	06.00	-1.3	MLS	157.99	341	ePKP	28	19.50	1.4	HUA	37.84	67	P	41	39.40	3.2X					
			PP	31	48.00		EPF	158.13	343	iPKPc	28	18.50	0.2				eP	43	25.40							
			(SKS)	39	22.00		ESCF	158.33	344	ePKP	28	18.80	0.3				eP	47	43.90							
			SS	45	07.00		STS	159.50	0	ePKP	28	22.00	2.3				eS	50	09.90							
			LQ	52	48.00		EBR	160.12	340	ePKP	28	21.00	0.6	ARE	38.56	77	eP	41	44.00	1.8					
			LR	57	13.00					PP	32	39.00					ePP	43	20.00							
DOU	150.48	343	ePKPc	28	08.00	0.5	TOL	162.13	349	iPKPc	28	23.00	0.5				eS	47	48.00							
			e	28	13.00					e	28	34.00					eLQ	50	36.00							
			e	28	27.00					iPKKP	29	11.50					eLR	52	06.00							
			PKS	31	49.00					i	29	21.50		TCA	39.14	102	Pc	41	46.00	-0.7					
			PP	32	01.00					iPKS	31	50.00		LPB	41.37	79	Pc	42	06.00	0.5					
			PPP	35	14.00					iPP	32	53.00					S	48	26.00							
			e	42	25.00					iSKS	35	20.00		ZOBO	41.47	79	P	42	07.00	0.5					
TRI	150.54	328	ePKP	28	07.00	-0.8				iPPP	36	20.00		BAA	43.52	109	Pc	42	24.40	2.0					
			i	31	56.00					iSKKS	39	02.00					S	48	52.00							
			SKKS	39	22.00					SKKKS	41	18.00					LR	55	11.00							
			PS	42	22.00					eSKSP	43	06.00		LPA	43.91	109	Pc	42	26.80	1.3					
			(SS)	47	22.00					i	44	00.00					PP	44	08.00							
			SSS	52	58.00					iPPS	46	55.00					iS	49	00.00							
GWF	150.55	338	PKP	28	07.00	-0.7				iSS	53	55.00					SS	52	04.00							
BUH	150.59	337	ePKPc	28	07.70	-0.2				iSSS	59	50.00		AIA	44.11	154	eP	42	31.00	4.2X					
CDF	151.15	338	ePKP	28	08.40	-0.4	KUK	162.20	207	PKPc	28	24.70	1.4				e(S)	53	09.00							
ECH	151.36	338	PKP+	28	08.00	-1.0	LIS	163.65	2	PKP	28	25.90	1.9	RAR	44.84	271	eP	42	27.00	-6.3X					
			e	28	22.00					i	28	36.40					S	49	22.00							
			ePP	31	55.00					LR	31	12.00					LQ	53	00.00							
			eSKS	35	30.00					iPP	33	08.80					LR	54	00.00							
ZUL	151.53	336	PKP	28	07.50	-1.8				SKS	35	16.00		PSO	45.29	51	eP	42	38.00	0.7					
BRT	151.62	317	PKP	28	12.00	2.5X				SPP	46	45.00		CHN	49.24	49	eP	43	09.50	1.5					
BAF	151.74	338	PKP	28	08.80	-0.9				SS	53	57.00		BOCO	49.98	51	iP	43	16.30	2.3					
BSF	151.81	338	iPKPc	28	09.50	-0.3	KIC	163.75	193	ePKP	28	25.90	1.1	BOG	50.00	51	eP	43	16.50	2.4					
HAU	151.81	339	iPKPc	28	09.70	0.0				i	28	37.40					eS	50	38.00							
BBS	151.87	337	PKP	28	09.00	-0.8				i	29	30.00		FUQ	50.84	51	eP	43	27.50	7.0X					
NEC	152.46	337	PKP	28	10.00	-0.6	ALM	164.66	342	iPKPd	28	25.20	0.2	IIT	51.49	15	eP	43	27.10	1.9					
ORI	152.55	316	PKP	28	11.00	0.1		2.0s		3.40nm				FDA5	51.66	100	P	43	28.10	1.7					
			ePP	32	01.00			Z 23s		0.60um				TAC	51.67	14	eP	43	41.00	14.4X					
FLN	152.90	349	iPKPc	28	11.20	0.1		N 27s		2.10um				IIC	52.01	14	eP	43	30.40	1.2					
SSC	153.00	348	iPKPc	28	11.40	0.1		E 20s		4.00um				UAV	54.88	50	eP	43	51.00	0.6					
AQU	153.01	323	PKP	28	11.00	-0.6				iPP	33	11.90		SDV	55.42	51	eP	43	53.90	-0.4					
			iPP	32	02.00					iS	39	28.40		LGN	55.95	49	eP	44	02.00	4.2X					
			e	35	43.00		MAL	165.26	348	iPKPc	28	25.00	-0.5	VAO	56.62	98	P	44	04.40	1.6					
PRG	153.06	325	PKP	28	22.00	10.4X				i	28	38.00					epP	44	07.00	9kmX					
			e	37	26.00					iPP	33	16.00		TOV	56.64	51	eP	44	04.50	1.5					
DIX	153.07	335	PKP	28	10.50	-1.3				iSKKS	39	54.00		SBA	58.02	194	P	44	15.00	3.1X					
FIR	153.17	327	PKP-	28	12.00	0.4				iSKSP	43	46.00					S	52	22.00							
			i	28	38.00		SFS	165.80	353	iPKP	28	14.00	-11.9X				LQ	59	00.00							
PRT	153.17	328	PKP	28	13.00	1.4				e	29	28.00					LR	01	00.00							
			ipPKP	28	22.50					ePKS	31	20.00		AFI	58.31	273	eP	44	15.00	0.2					
			i	28	53.00					iSKS	33	10.00					S	52	28.00							
			iSKS	36	05.00		TAM	167.19	275	PKP	28	31.00	3.3X				SSS	59	02.00							
LOR	153.25	341	iPKPc	28	11.90	0.2	MBO	168.63	133	iPKP	28	34.70	6.2X				LR	01	00.00							
GRR	153.32	349	iPKPc	28	12.00	0.3				i	28	41.80		MNG	58.85	239	iP	44	19.60	1.5					
GRC	153.45	342	iPKPc	28	11.20	-0.7				i	29	07.90		BAO	58.89	90	eP	44	17.00	-1.9					
			i	28	19.40					e	29	10.50		CAR	59.09	52	eP	44	18.10	-2.1					
			i	28	34.60					i	29	51.50			0.6s	29.30nm				5.6mb					
			iPP	32	11.80					e	30	11.70		WEL	59.18	238	iP	44	21.70	1.4					
SIE	153.47	327	PKP	28	24.60	12.5X	KDS	169.61	159	iPKP	28	28.60	-0.5				S	52	24.00							
LBF	153.47	341	iPKPc	28	12.10	0.0	TEN	170.60	48	iPKP	28	33.70	4.4X				SS	56	30.00							
SSF	153.54	342	iPKPc	28	12.20	0.1				i	29	51.30					LQ	58	00.00							
LPF	153.70	349	iPKPc	28	12.50	0.3				iPP	33	41.70					LR	00	00.00							
GEN	153.78	331	PKP	28	11.50	-1.0				ePPP	37	41.70		KRP	59.60	242	P	44	23.00	-0.2					
SMF	153.82	341	iPKPc	28	12.40	-0.1		S.D. = 1.1		on 402 of 515 obs.				RDJ	59.83	100	Pc	44	26.40	1.3					
AVF	153.83	342	iPKPc	28	12.40	-0.1											iPP	46	43.20							
SGR	153.99	349	ePKP	28	14.00	1.4	OCT 28, 1981 04h 34m 17.03± 0.11s										iPPP	48	10.40							

			iS	52	44.40					e	45	58.20			KHE	130.43	2	ePKPc	53	30.00	1.7
RHP	61.68	234	P	44	37.00	-0.5	BLA	73.86	25	iPd	45	54.40	0.7		BSF	130.44	52	ePKP	53	28.20	-1.1
JCT	62.37	11	iP	44	42.00	-0.1				iS	55	34.00			PNI	130.53	56	PKP	53	18.50	-11.0X
Z	18s		44.70um			6.7Msz	IMW	74.90	360	ePc	45	59.40	-0.5		BAF	130.58	52	PKP	53	31.00	1.4
			iS	53	18.00					e	46	05.30			WTS	130.64	46	PKPc	53	32.00	2.7X
BRZ	62.89	231	eP	44	48.00	2.6	KOU	75.50	255	Pc	46	04.80	1.3		ECH	130.72	51	PKP	53	31.80	2.1
MSZ	62.98	232	P	44	44.00	-2.0	COR	76.45	351	iPd	46	15.00	6.7X					eSS	13	20.00	
TRN	63.04	57	eP	44	45.60	-1.2	UTO	76.85	21	ePd	46	20.50	9.9X		DIX	130.72	54	PKP	53	29.00	-1.1
TUC	63.33	360	ePc	44	48.20	-0.3	BUT	77.03	359	ePc	46	12.10	0.4		YAK	130.99	327	ePKP	53	30.00	0.3
			i	44	54.30		TAU	77.24	227	eP	46	17.00	4.0X		GWF	131.07	50	PKP	53	32.40	2.0
SVM	63.83	2	eP	44	52.00	0.0	CLE	77.32	22	iPd	46	19.20	5.9X		CVF	131.36	59	ePKP	53	19.00	-12.1X
GLA	64.19	356	iPc	44	54.20	0.1				S	56	10.00			BUH	131.45	51	ePKP	53	32.20	1.1
			i	45	00.20		MSO	77.88	358	eP	46	16.30	0.0		ZUL	131.50	52	PKP	53	29.00	-2.3
LUB	65.13	8	eP	45	05.00	4.7X		2.0s	588	.00nm			6.3mb		TNS	131.65	49	ePKP	53	30.50	-1.0
SJG	65.18	47	eP	45	02.00	1.2	NEW	79.47	356	ePc	46	25.20	0.3		GRF	133.43	49	ePKP	53	33.90	-0.9
			iS	53	45.00		LDM	79.56	357	iPc	46	25.70	0.3					e	53	39.20	
PAS	65.54	353	eP	45	02.00	-0.7	WAM	79.67	234	P	46	28.20	1.8		MOX	133.67	48	ePKP	53	38.00	2.8X
	2.2s	900	.00nm			6.6mb				e	46	45.10				2.4s	240	.00nm			
Z	20s		28.00um			6.5Msz	RXF	79.96	357	iPc	46	28.00	0.4		Z	18s		6.40um			6.4Msz
N	20s		36.00um				YKM	79.99	357	iPc	46	27.90	0.1		N	16s		2.00um			
E	20s		13.00um				CAN	80.04	235	P	46	21.30	-7.2X		E	18s		3.40um			
			e	46	10.00		COO	80.39	240	eP	46	31.00	0.5		COP	133.76	41	ePKP	53	40.00	4.9X
			ePP	47	19.00		PNT	80.71	354	eP	46	32.00	0.5					iSS	14	00.00	
			iS	53	58.00			1.2s	131	.00nm			5.8mb		CLL	134.51	47	ePKP	53	38.00	1.2
			e	14	07.00		MIR	80.73	189	Pc	46	29.00	-2.4					PP	56	24.00	
SDW	65.89	354	eP	45	05.50	0.4	YOU	81.02	235	P	46	36.20	2.5					e	57	19.00	
			i	45	10.10		MAW	81.22	178	eP	46	33.00	-1.0					e	57	26.00	
ALQ	66.07	4	ePc	45	05.80	-0.6	TOO	81.25	231	eP	46	31.00	-3.8X		KHC	134.99	50	PKP	53	36.60	-1.2
	1.7s	135	.00nm			5.9mb				e	46	37.00			Z	20s		3.60um			6.1Msz
Z	20s		22.50um			6.4Msz	BRS	81.34	243	P	46	35.50	0.0		N	20s		2.70um			
			eS	54	00.00					eSKS	56	50.00			E	20s		2.60um			
PRI	67.80	351	iPc	45	17.50	0.3	BFD	83.42	230	eP	46	44.00	-2.0					e	53	48.00	
GCA	67.98	359	(P)	45	19.80	1.4	EDM	84.26	358	iPc	46	49.50	-0.2		BRG	135.13	48	ePKP	53	39.70	1.7
MSA	68.01	4	eP	45	18.80	-0.1		1.2s	364	.00nm			6.5mb		Z	18s		4.80um			6.3Msz
			e	45	25.30		MIM	85.12	28	(P)	46	53.60	-0.6		N	18s		2.60um			
YMT1	68.08	355	eP	45	19.80	0.8	ADE	87.23	230	Pc	47	07.00	1.9		E	18s		4.00um			
			i	45	25.90		CTA	90.27	246	P	47	21.90	2.2					e	53	28.70	
RMU	68.08	360	eP	45	20.00	1.0				iSKS	57	53.00			NAI	135.22	130	ePKP	53	25.50	-14.0X
TUL	68.37	13	iPc-	45	20.20	-0.5				iS	58	20.00				0.8s		18.70nm			
	1.0s	318	.00nm			6.5mb				iSP	59	22.00			KMR	135.38	52	(PKP)	53	44.00	5.5X
Z	18s		9.14um			6.1Msz				i	04	19.00			UME	135.46	29	PKP	53	35.90	-2.2
			eS	54	22.00		RAB	93.92	263	eP	47	35.00	-1.6		PRA	135.50	49	iPKP	53	42.00	3.3X
			eSS	58	43.50		ISQ	95.08	242	eP	47	40.00	-1.9		PRU	135.57	49	ePKP	53	40.00	1.2
SAO	68.52	351	iP	45	20.40	-1.2	PMG	95.37	256	eP	47	36.00	-7.2X			Z	19s		6.80um			6.4Msz
FRI	68.52	352	iPc	45	20.90	-0.6	ASP	97.45	237	eP	47	54.00	1.4			N	21s		3.60um			
DRV	68.75	204	P	45	23.60	0.9	PMR	97.72	343	eP	47	52.40	-0.3			E	19s		4.10um			
RLO	68.76	14	iP	45	22.50	-0.6				i	47	58.00						e	56	16.00	
ARN	69.10	351	iPd	45	31.50	6.3X	WB2	99.43	240	P	48	01.70	0.1					e	57	00.00	
MHC	69.11	351	iP	45	25.90	0.5				e	49	55.00			UPP	135.63	34	PKP	53	40.20	1.6
TNP	69.35	355	iPc	45	27.80	0.8				e	52	13.70			SOD	136.13	22	ePKP	53	43.00	3.6X
			i	45	33.60					e	52	51.50			KSP	136.62	48	ePKP	53	37.00	-3.8X
JAS	69.55	352	iPc	45	28.00	0.1	WRA	99.44	240	Pc	48	01.80	0.1			1.3s		50.00nm			
BKS	69.72	350	e(P)	45	30.00	1.1		0.7s		3.00nm			5.0mb X					e	56	28.00	
Z	20s		37.00um			6.6Msz	INK	100.80	352	ePdiff	48	05.00	-1.5		PPI	136.76	229	e(PKP)	53	43.90	1.8
N	20s		34.00um				SKR	115.46	315	ePKP	52	40.00	-20.4X		VIE	136.87	51	ePKP	53	40.00	-1.3
E	20s		7.00um				BUL	115.60	137	ePKP	54	04.00	62.2X		TUP	137.53	318	ePKP	53	39.00	-3.4X
			eS	54	49.60		SEY	120.50	328	ePKP	52	59.00	-10.6X		SRO	138.20	52	ePKP	53	40.30	-3.6X
MNV	69.78	354	iPc	45	30.00	0.5	TOL	121.29	60	ePKP	53	17.00	5.1X			Z	18s		3.20um			6.1Msz
NVL	70.35	163	Pc	45	30.00	-2.5				iSS	11	33.00			KJF	138.22	26	ePKP	53	39.00	-4.4X
			iS	54	48.00		LPF	125.24	51	ePKP	53	18.00	-1.2					ePKS	57	22.00	
PRM	70.36	25	eP	45	33.10	0.1	GRR	125.42	50	ePKP	53	18.30	-1.2					eSS	14	40.00	
EUR	70.66	356	iP	45	34.70	-0.2	MFF	125.60	53	ePKP	53	18.60	-1.4		SUF	138.35	28	PKP	53	43.20	-0.5
	0.5s	16	.00nm			5.4mb	FLN	125.72	50	ePKP	53	18.90	-1.2		NUR	138.69	32	iPKP	53	45.10	0.8
GOL	70.87	4	eP	45	36.50	0.2	LFF	125.91	55	ePKP	53	19.70	-0.9			0.8s		10.10nm			
Z	18s		0.30um			4.6MszX	SSC	125.94	50	ePKP	53	18.90	-1.7			Z	21s		7.10um			6.4Msz
			e	45	42.20		LPO	126.18	55	ePKP	53	20.10	-1.1		BUD	138.71	52	PKP	53	38.00	-6.8X
DON	70.90	17	eP	45	33.20	-2.9	RJF	126.52	54	ePKP	53	20.60	-1.2					e	53	49.00	
			i	45	39.50		LSF	126.69	53	ePKP	53	20.90	-1.2					e	53	54.00	
GLD	70.93	4	eP	45	37.20	0.7	CAF	126.84	55	ePKP	53	21.60	-0.9					ePP	56	37.00	
Z	18s		0.80um			5.0MszX	TCF	127.16	53	ePKP	53	21.70	-1.3		KRA	139.03	48	ePKP	53	48.00	2.7X
JSC	70.94	26	eP	45	36.30	-0.1	MZF	127.40	53	ePKP	53	22.30	-1.2			Z	20s		3.80um			6.1Msz
ELC	71.18	18	eP	45	36.90	-0.9	AVF	128.01	53	ePKP	53	23.50	-1.1					e	15	06.00	
DUG	71.22	358	ePc	45	38.20	0.0	SSF	128.15	52	ePKP	53	23.20	-1.6		NIE	139.36	49	ePKP	53	47.00	1.0
			i	45	44.00		SMF	128.32	53	ePKP	53	24.00	-1.2		JOS	139.62	51	PKP	53	42.00	-4.4X
ORV	71.27	351	iPc	45	38.20	-0.1	LOR	128.41	52	ePKP	53	24.00	-1.4					e	53	51.00	
ORT	71.36	22	e(P)	45	38.80	-0.2	LBF	128.46	53	ePKP	53	24.40	-1.1					e	54	33.00	
FVM	71.54	17	iPc	45	39.60	-0.4	TIK	128.95	339	ePKP	53	22.00	-3.6X					ePP	56	48.00	
Z	18s		5.80um			5.9Msz	UCC	129.06	48	PKPc	53	28.20	1.8		BOD	139.62	324	ePKP	53	38.00	-8.1X
			i	45	46.00					e	53	31.80			PSI	140.09	230	ePKPd	53	41.20	-7.1X
BMN	71.69	355	iPc	45	41.40	0.4	DOU	129.16	49	PKP	53	28.40	1.8					e(S)	56	37.00	
	2.3s	971	.00nm			6.5mb				e	53	37.70			OHR	140.13	62	e(PKP)	53	39.30	-8.4X
			e	45	46.30					SS	13	05.00						i	53	50.90	
MIN	72.06	351	iP	45	42.30	-0.9	ENN	130.05	48	ePKP	53	32.50	4.2X		TIA	140.28	290	ePKP	53	50.90	2.9X
WDC	72.42	351	iPc	45	44.70	-0.5				e	53	39.50						PP	56	48.90	
NOU	72.90	254	Pc	45	50.30	1.8				e	55	50.00			NRI	140.44	350	ePKP	53	46.00	-1.2
BDW	73.78	1	iPc	45	52.20	-1.1	MEM	130.10	48	PKP	53	34.60	6.2X		SKO	140.62	61	ePKP	53	52.50	4.1X
	1.3s	160	.00nm			5.9mb	HAU	130.16	52	ePKP	53	27.70	-1.0		UZH	140.76	50	PKPc	53	46.50	-1.9

28d 04h

TSI	140.93	231	e(PKP)	53	50.50	0.7	TAS	170.06	0	ePKP	54	23.00	-2.7X				S	13	23.00				
BJI	141.34	296	PKP	53	53.00	3.3X	KSH	170.26	328	ePKP	54	28.00	2.0	TIY	20.27	340	iPd	09	58.00	0.4			
VAY	141.47	62	e(PKP)	53	35.20	-14.8X				ePP	59	39.00					SP	10	09.00				
			i	53	51.60		ANR	170.31	346	ePKP	54	28.00	2.1				S	13	40.00				
WHN	141.57	281	ePKP	53	50.00	-0.5	SAM	171.50	12	PKPc	54	30.20	3.7X	BKB	20.29	192	iPc	10	00.00	2.1			
LVV	141.68	48	ePKP	54	02.00	11.9X	BHJ	171.91	182	PKP	54	31.00	4.0X		1.0s	721	.00nm			6.0mb			
SNG	142.14	237	ePKP	53	56.40	4.5X				PP	59	37.00		ABU	20.71	36	Pd	10	04.00	1.9			
ATH	142.23	67	ePKP	53	48.00	-3.4X	DDI	172.41	264	PKP	54	26.70	-0.4	CHG	20.72	274	iPd	10	02.00	-0.3			
CMP	143.06	55	ePKP	53	52.00	-0.7	NDI	172.64	251	PKP	54	25.00	-2.2		1.0s	150	.00nm			5.3mb			
KDZ	143.55	61	ePKP	53	52.00	-1.6				iPP	59	44.00					eS	13	56.00				
MLR	143.67	55	ePKP	53	51.00	-2.8X				iSS	21	02.00		CHTO	20.72	274	iPd	10	02.00	-0.3			
			e	57	18.00		DSH	172.81	3	ePKP	54	26.00	-1.1		1.0s	150	.00nm			5.3mb			
DIM	143.71	60	ePKP	53	52.00	-1.8	KKR	173.37	260	PKP	54	37.00	9.6X				eS	13	56.00				
AAE	143.95	121	ePKP	53	53.00	-2.4	KUL	173.47	357	ePKP	54	30.00	2.7X	BDT	20.81	269	iPd	10	04.20	1.0			
TIY	144.15	292	ePKP	53	51.00	-3.8X	KHO	173.62	344	ePKP	54	27.00	-0.6		0.8s	607	.00nm			6.0mb			
VRI	144.16	54	ePKPc	54	06.00	11.5X	NIL	175.96	305	ePKP	54	26.30	-1.8	BJI	21.59	350	Pd	10	11.00	0.0			
IAS	144.49	51	ePKP	53	59.00	4.0X	KAAO	176.82	4	ePKP	55	29.00	60.5X				PP	10	18.00				
BIR	144.71	53	ePKP	53	55.00	-0.4	KBL	176.82	4	ePKP	55	30.30	61.8X				eS	14	04.00				
IZM	145.04	67	PKP	53	55.00	-1.3	PSH	176.87	326	ePKP	54	27.20	-1.1	LZH	22.86	322	iPd	10	25.30	1.5			
KIS	145.40	51	PKPc	53	55.00	-1.5	QUE	177.66	119	ePKP	54	29.00	0.3				SP	10	33.00				
EDC	145.50	63	PKP	53	55.00	-1.9		S.D. = 1.3		on 198 of 284 obs.				OYM	23.27	41	eP	10	26.30	-1.3			
YER	145.80	69	PKP	53	56.00	-1.6								MAT	23.41	37	P-	10	28.00	-0.9			
CTT	145.89	62	PKP	53	59.30	1.7		NOV 22, 1981 15h 05m 22.28± 0.24s									S	14	42.00				
BTO	146.04	297	ePKP	53	57.00	-1.0		18.750 N ± 1.2km 120.829 E ± 1.6km						SRY	23.41	40	eP	10	27.30	-1.6			
PCT	146.27	248	ePKP	53	58.80	0.0		DEPTH = 36.0 ± 2.1 km						AAI	23.45	161	ePc	10	29.50	0.1			
	1.5s	90	.10nm					6.3mb (61 obs.) 6.5Msz (17 obs.)						DDR	23.62	40	eP	10	29.00	-2.0			
BKT	146.48	64	PKP	53	59.30	0.5		LUZON, PHILIPPINE ISLANDS (249)						GUMO	23.64	99	eP	10	31.00	-0.3			
XAN	146.70	285	ePKP	53	58.80	-0.3		Damage in the Bacarro-Laoag						BTO	23.67	339	iPd	10	32.50	0.9			
MOS	147.02	33	ePKP	54	00.00	1.1		area. Felt throughout western						GUA	23.70	99	eP	10	31.70	-0.1			
GYA	147.04	271	PKP	54	02.00	2.0		Luzon.							1.3s	600	.00nm			6.0mb			
IRK	147.05	320	ePKP	53	59.00	-0.1								Z	18s	57	.70um			6.1Msz			
ELL	147.08	70	PKP	54	01.40	1.6	SZP	1.24	197	iPd	05	43.50	0.1				e(S)	15	08.00				
GPA	147.37	63	PKP	54	00.20	0.2	BAG	2.34	186	Pc	05	59.00	-0.3	KYS	23.69	42	eP	10	31.10	-0.6			
HLW	147.39	83	ePKPd	54	05.00	4.7X	HEN	3.23	359	eP	06	13.00	1.1	MKS	23.85	183	iPc	10	33.70	0.3			
BCK	147.65	68	PKP	54	02.20	1.6				S	06	47.00			0.8s	418	.00nm			6.0mb			
ZAK	148.43	317	PKPc	54	03.10	1.8	TTN	3.99	4	P	06	25.00	2.4	KGM	23.90	228	ePd	10	34.50	0.7			
ARO	148.59	123	iPKP	54	04.60	1.9	TWM1	4.07	355	eP	06	23.00	-0.8		1.5s	1690	.00nm			6.3mb			
MGN	148.74	62	PKP	54	09.00	6.8X	MAN	4.07	177	iPd	06	25.60	1.8	IPM	23.93	236	iPd	10	33.20	-0.9			
MOY	149.15	320	ePKP	53	59.00	-3.4X				iS	07	13.00			1.3s	1190	.00nm			6.3mb			
BDT	149.62	249	iPKPc	54	05.60	1.5	OCP	4.10	177	P	06	24.00	-0.2				i	11	02.20				
	1.0s	188	.00nm				TWK	4.50	356	eP	06	29.00	-0.9				e	14	16.90				
KAS	149.87	61	PKP	54	07.00	3.1X	HWA	5.24	8	P	06	41.60	1.3	TSK	24.32	40	eP	10	33.00	-4.7X			
CHG	150.49	252	iPKPc	54	07.80	2.4				iS	07	43.10		KLM	24.38	233	ePd	10	39.40	0.9			
	1.6s	121	.00nm				TWD	5.35	8	eP	06	41.00	-0.8		1.2s	1350	.00nm			6.4mb			
			eS	04	51.00		TCU	5.37	359	P	06	41.90	-0.3	CN2	25.28	8	iPd	10	45.80	-1.0			
CHTO	150.49	252	ePKP	54	07.20	1.8				S	08	03.00					SP	10	56.00				
CD2	150.58	278	PKP	54	07.00	1.7	TWQ	5.50	0	iPd	06	43.00	-0.9				S	15	09.00				
LZH	150.99	289	ePKP	54	09.00	3.1X	TWC	5.91	9	eP	06	49.00	-0.7	TSI	26.53	238	ePd	11	00.00	1.3			
KVT	151.62	61	PKP	54	10.20	3.7X	LGP	6.22	153	ePc	06	54.50	0.3	PSI	26.73	236	ePd	10	59.50	-1.0			
UER	152.80	325	PKPd	54	06.10	-1.7				iS	08	07.00			1.2s	516	.00nm			6.0mb			
SVE	153.85	11	ePKPc	54	12.00	2.9X	TATO	6.22	6	eP	06	54.80	0.6	GTA	27.46	323	iPd	11	07.30	0.1			
ARU	153.87	14	PKPc	54	12.00	2.8X	ANP	6.43	6	Pc	06	58.00	0.8				S	15	48.00				
ELT	154.91	336	ePKP	54	07.00	-3.6X				S	08	04.00		TRT	27.50	198	iPd	11	07.50	0.0			
PYA	155.80	51	PKP	54	16.60	4.4X	HKC	7.17	301	P	07	04.00	-3.5X		0.9s	304	.00nm			6.0mb			
BKR	156.92	56	PKPc	54	17.60	3.7X				S	08	19.00		SHIO	27.61	289	iPd	11	08.70	0.0			
LEN	157.45	58	ePKP	54	22.00	7.4X	CNP	7.22	149	ePc	07	10.60	2.4	PPI	27.70	229	ePd	11	09.50	0.2			
ERE	158.09	59	ePKP	54	14.00	-1.3				iS	08	18.00			1.3s	532	.00nm			6.1mb			
MAK	159.11	50	ePKP	54	34.00	17.8X	PLP	8.54	151	ePc	07	26.50	-0.1	BSI	28.15	245	ePc	11	13.50	0.1			
KRV	159.28	57	ePKP	54	15.00	-1.5				eS	09	01.00		JAY	28.79	135	eP	11	17.80	-1.5			
SEM	159.29	340	ePKP	54	14.00	-2.1	PPR	9.15	193	eP	07	34.00	-1.0				eS	14	28.50				
SHIO	159.34	259	ePKP	54	15.00	-2.2				eS	09	16.00		KUPT	28.85	174	eP	11	18.80	-0.8			
SHL	159.34	259	PKP	54	19.00	1.8	CGP	10.90	159	iPd	08	01.00	2.0		0.5s	72	.00nm			5.6mb			
GRS	159.63	60	PKPc	54	21.00	3.9X	PPH	12.02	154	ePc	08	18.20	4.0X				eS	14	32.00				
TAB	159.99	64	ePKP	54	22.00	4.5X				eS	10	31.00		LSA	29.10	298	iPd	11	22.50	0.1			
GBA	160.81	205	PKP	54	28.00	9.3X	SSE	12.30	1	iPd	08	16.70	-1.1				iS	16	13.50				
	1.2s	13	.90nm				DAV	12.48	158	Pd	08	22.00	1.7	SAP	29.79	31	eP	11	18.00	-9.9X			
CAL	160.89	247	PKP	55	11.00	52.4X	WHN	13.13	335	P	08	28.00	-0.9				eS	16	14.00				
WMQ	160.89	316	PKP	54	19.20	1.0	NJ2	13.36	353	P	08	30.00	-1.9	MTN	33.00	161	eP	11	53.00	-3.3X			
			PP	58	47.00					SP	08	37.50					e	14	40.00				
LSA	161.11	271	ePKP	54	23.20	3.9X	KKM	13.41	200	iPc	08	34.10	1.4	MOM	33.32	126	eP	12	03.00	3.9X			
KER	161.12	75	ePKP	54	23.00	4.2X		0.8s	221	.00nm			6.1mb	YSS	33.42	28	Pd	11	59.80	0.1			
BOK	163.58	247	PKP	55	15.20	53.9X	GYA	15.16	303	Pd	08	55.00	-0.6				pP	12	10.50	38kmX			
HYB	163.77	213	ePKP	54	26.00	4.3X				eS	11	40.00					sP	12	16.00				
			ePP	59	00.00		MNI	17.64	167	ePc	09	29.50	2.4				iS	17	18.00				
			ePPS	12	48.00					eS	09	34.00					esS	17	32.00				
			eSS	19	26.00		TIA	17.70	350	Pd	09	28.70	1.0	KKI	33.92	131	Pc	12	05.60	1.2			
TLG	166.50	334	ePKP	54	23.00	-0.4				eS	12	43.50		ZAK	34.53	340	Pd	12	09.40	0.2			
POO	166.58	199	PKP-	54	28.20	4.1X	KMI	17.93	294	Pd	09	31.00	0.1				eS	17	37.70				
PRZ	166.74	329	ePKP	54	23.00	-0.7				SP	09	40.00		KUR	34.67	34	Pd	12	10.00	-0.4			
KAT	166.80	50	ePKP	54	39.00	15.4X				PP	09	48.00					iS	17	38.00				
KRD	167.17	341	PKP+	54	24.00	0.1				S	12	49.00		KNA	35.16	167	Pc	12	11.40	-3.5X			
			PP	59	04.00		XAN	18.57	327	Pd	09	38.00	-0.4	TUP	35.62	359	Pd	12	18.70	0.3			
BOM	167.19	195	PKP	54	28.00	3.5X				S	13	00.00		IRK	35.87	343	ePd	12	21.00	0.3			
FRU	167.80	341	ePKP	54	24.00	-0.3	SHK	18.93	32	ePc	09	40.00	-2.8				epP	12	30.00	30kmX			
NRN	168.60	334	ePKP	54	23.00	-2.3				eS	13	22.20					eS	17	54.00				
ASH	168.84	51	ePKP	54	21.00	-4.0X	SEO	19.50	15	iPd	09	49.50	0.1	LAT	36.10	132	eP	12	23.00	0.1			
SEH	169.30	222	PKP-	54	20.00	-5.7X	CD2	19.63	311	Pd	09	50.00	-1.0	KVG	36.31	123	eP	12	24.00	-0.7			

22d 15h

WMQ	37.36	319	iPd	12	34.20	0.8	PSH	46.35	299	iPd	13	47.40	0.5	GRS	66.52	306	Pd	16	10.60	-0.5
			S	18	17.50					eS	20	32.20					ipP	16	20.60	32kmX
PMG	38.17	135	ePd	12	38.00	-2.4	MGD	46.54	20	Pd	13	47.00	-1.0				isP	16	25.60	
RAB	38.37	123	Pd-	12	42.00	-0.1				ipP	13	55.00	27kmX				iS	24	57.60	
			iS	13	23.00					iS	20	29.00		TAB	66.67	304	iPd	16	12.00	0.0
LMG	38.49	133	Pc	12	41.80	-1.4	KHO	46.75	304	P	13	51.00	0.8	GRO	66.69	310	Pd	16	13.10	1.3
UER	38.94	333	Pd	12	47.50	1.1				S	20	40.70					iS	25	03.10	
MBL	39.68	181	eP	12	50.00	-2.8	ANR	46.76	309	Pd	13	51.60	1.5	KHE	67.27	351	Pd	16	15.00	0.0
HYB	40.14	275	Pd-	12	56.50	-0.3				esP	14	09.10					esP	16	32.00	
			e	13	01.80					iS	20	45.10					eS	25	06.00	
			e	13	19.00		HNR	47.67	123	ePd	13	58.00	0.5	VUN	67.38	119	ePd	15	16.60	-60.0X
			ePP	14	27.00					eS	20	24.00			1.5s	17.90nm				
			e	14	52.00		GAR	47.95	306	P	14	00.00	0.4	ERE	67.86	307	Pd	16	20.00	0.6
			ePcP	15	02.50					eS	20	49.30					iS	25	18.00	
			e	15	20.00					eS	20	51.30		LEN	68.29	307	Pd	16	23.00	0.8
			ePcS	18	49.00		KUL	48.21	304	Pd	14	02.00	0.5				eS	25	26.00	
			eS	18	56.00					eS	20	59.60		SDN	68.37	37	P	16	20.70	-1.5
			ePS	19	24.00		KAAO	48.38	300	iPd	14	03.40	0.3	PYA	68.53	311	Pd	16	22.00	-1.4
			eSS	21	52.00		DSH	49.07	305	Pd	14	08.30	0.2				iS	25	22.00	
			eScS	23	14.00					eS	21	04.60		BHD	68.87	299	eP	16	16.00	-9.7X
WRA	40.67	160	Pc	12	58.90	-2.1	TAS	49.15	309	Pd	14	10.00	1.4				i	16	25.50	
	0.6s	41.90nm				5.4mb				iS	21	18.00					e	18	06.00	
WB2	40.68	160	Pd	12	57.80	-3.3X	SEY	49.17	18	Pd	14	09.30	0.8				i	20	08.00	
			eS	19	00.70					ipP	14	18.70	31kmX				e	25	27.00	
			eP'P'	44	44.30					iS	21	13.30					i	25	36.00	
ESA	40.94	131	eP	12	08.00	-55.3X	KLG	49.25	179	Pd	14	07.00	-2.4				e	26	10.00	
NDI	40.94	292	iPd	13	01.00	-2.2	QUE	49.95	294	iPd-	14	15.00	-0.2				i	44	40.00	
Z	18s	39.50um				6.3Msz				eS	21	25.00		TTA	70.38	29	ePd	16	34.80	0.4
			ePP	14	42.00		KLB	50.14	183	Pc	14	15.00	-1.2	SVW	70.67	31	ePd	16	36.80	0.6
			eS	19	05.00		SAM	50.60	306	Pd	14	20.40	0.5	MOS	70.92	324	Pd	16	38.00	0.3
			eSSS	22	21.00					isP	14	34.00					eS	25	51.00	
GBA	41.91	270	P	13	12.00	0.7				iS	21	37.20		IMA	71.21	25	ePd	16	39.70	0.2
	0.9s	167.00nm				5.8mb	MUN	50.63	185	eP	14	18.00	-2.0	OBN	71.56	323	iPd-	16	41.00	-0.6
PAA	42.27	123	eP	13	12.00	-2.4	NWAO	51.50	184	Pc	14	25.80	-0.7		1.6s	930.00nm				6.5mb
SKR	42.37	33	Pd	13	15.00	0.4				eS	21	47.00		Z	16s	38.00um				6.8MszX
			ipP	13	21.00	20kmX	TIK	53.10	3	Pd	14	36.00	-2.0	N	14s	10.00um				
			iS	19	34.00					pP	14	43.00	23kmX	E	16s	23.00um				
			esS	19	50.20					sP	14	51.00					ePP	17	05.00	
KOD	42.74	265	Pd	13	18.50	0.1				eS	21	58.00					ePP	19	30.00	
			PP	15	00.00		SMY	53.26	37	P	14	39.30	-0.2				iS	25	56.00	
			PcP	15	12.00		STK	54.14	158	eP	14	43.00	-3.2X				iScS	26	32.00	
			PPP	15	32.00		NRI	54.48	346	Pd	14	46.20	-2.1				iSS	30	44.00	
			eS	19	42.00					iS	22	15.00					iSSS	39	56.00	
			SS	22	40.00		BRS	55.34	145	Pd	14	52.80	-2.3	APA	71.89	336	Pd	16	42.80	-0.5
			LQ	23	00.00					i	14	58.80					ipP	16	50.80	26kmX
			ScS	23	20.00					iPcP	15	55.50					iS	26	03.00	
			SSS	23	30.00					eScP	19	53.00		CRZ	72.30	137	iP	16	49.00	2.7
			LR	25	13.00		ADE	56.06	162	Pd	14	58.60	-1.5	ANN	72.51	312	Pd	16	45.50	-1.9
PRZ	42.91	313	Pc	13	21.60	2.2	MHI	56.25	302	eP	15	02.00	0.2				eS	26	08.50	
UKR	42.95	327	Pd	13	20.00	0.6	KHI	56.96	299	eP	15	06.40	-0.6	KDC	72.60	34	eP	16	47.00	-0.7
ISQ	43.30	154	Pd	13	20.00	-2.6	ASH	57.19	303	Pd	15	09.30	1.0	PMR	73.72	30	ePd	16	53.20	-0.9
YAK	43.67	6	Pd	13	24.70	-0.3				S	23	05.80		Z	20s	10.00um				6.1Msz
			iS	19	48.80		VAN	57.39	303	ePd	15	09.00	-0.7	MIK	73.77	26	Pd	17	11.50	17.1X
LAH	43.67	296	eP	13	25.00	-0.5				S	23	06.50					eS	26	52.00	
KSH	43.75	308	iPd	13	29.00	2.8	COO	57.43	148	eP	15	10.00	0.0	COL	73.78	26	iPd	16	54.20	-0.3
			SP	13	38.00		SVE	58.27	326	Pd	15	15.50	0.0	Z	20s	16.70um				6.3Msz
			S	19	58.00					iS	23	17.00					eS	26	24.00	
TLG	43.88	314	Pd	13	29.50	2.3	ADK	58.53	40	P	15	15.30	-2.1	FBA	73.78	26	P	16	54.10	-0.4
			iS	20	04.50		KAT	58.84	305	Pd	15	20.50	0.7	KEV	73.89	339	iPd-	16	55.00	0.0
ASP	44.06	163	Pd	13	26.30	-2.4				eS	23	28.00			0.6s	1280.00nm				7.1mb
			e	19	55.00		YOU	58.90	153	Pd	15	18.40	-1.8	Z	18s	17.00um				6.4Msz
NRN	44.28	311	Pd	13	31.60	0.9				i	16	10.10					ePP	19	40.00	
			eS	20	05.00		PVC	59.10	125	Pc	15	21.40	-0.4				eS	26	24.00	
POO	44.41	278	iPd	13	31.50	-0.2	ARU	59.27	325	Pd	15	22.40	-0.1				eScS	27	00.00	
			iPP	15	14.50					epP	15	28.00	18kmX				eSS	31	28.00	
			iPPP	15	40.50					esP	15	37.50		AFI	73.90	111	eP	16	53.00	-3.0X
			iPcS	19	12.00					eS	23	29.00					S	26	29.00	
			iS	20	00.00		BFD	59.27	160	eP	15	20.00	-2.7				SS	31	33.00	
			iSS	23	06.00		CAN	60.05	154	Pd	15	26.50	-1.6				SSS	34	09.00	
			iScS	23	24.50					i	16	14.40					LQ	36	00.00	
			iSSS	23	57.00		NOU	60.45	130	Pc	15	29.50	-1.5				LR	40	00.00	
NIL	44.81	299	iPd	13	35.00	0.2	TOO	60.64	158	eP	15	30.00	-2.1	KVT	74.08	308	P	16	56.90	0.1
			eS	20	16.00		WAM	60.75	154	P	15	32.00	-0.8	SOD	74.47	336	Pd	16	58.00	-0.4
WBN	44.97	173	eP	13	35.00	-1.0				i	16	15.90		KJF	74.65	333	Pd-	16	58.80	-0.7
PET	45.02	32	Pd	13	35.50	-0.5	ILT	61.80	22	Pd	15	38.00	-1.6				iPP	19	40.50	
			eS	20	04.00					ipP	15	46.50	28kmX				eS	26	32.00	
SEM	45.09	324	Pd	13	37.00	0.4				iS	23	58.00					eScS	27	00.00	
			eS	20	16.60		NKI	63.41	40	P	15	49.30	-1.2				eSS	31	24.00	
MEK	45.15	183	eP	13	36.00	-1.4	BAK	63.72	306	ePc	15	53.00	0.3	SIM	74.72	313	Pd	16	59.50	-0.8
FRU	45.67	312	Pd	13	42.80	1.4				S	24	31.00					iS	26	35.00	
			eS	20	21.80		MAK	65.43	309	P	16	02.40	-1.4	TOA	75.01	29	ePd	17	02.20	0.5
CTA	45.95	146	iPd-	13	42.00	-1.8				iS	24	47.60		ARO	75.12	277	iPd	17	03.90	0.7
	1.0s	121.00nm				5.8mb	TAU	66.02	159	eP	16	07.00	-0.4	KBS	75.28	349	iP	17	03.60	0.6
			i(PcS)	19	17.00		ANM	66.27	27	ePd	16	09.30	0.5	KIP	75.42	72	eP	17	06.00	1.3
			iS	20	23.00		KRV	66.42	307	Pd	16	10 00	-0.2				eS	26	40.00	
NVS	45.98	331	Pd	13	43.20	-0.4				S	25	01.00		SUF	75.64	332	P	17	04.50	-0.7
			iS	20	16.00		KER	66.47	300	ePd	16	09.50	-1.3	KAS	75.70	309	P	17	05.00	-1.1

22d 15h

KRP	76.27	138	Pd	17 11.00	1.9
TNZ	76.32	140	iP	17 11.80	2.4
KIR	76.66	337	Pd	17 10.60	-0.3
ANTO	76.76	308	iPd	17 12.70	0.6
NUR	76.87	330	iP	17 11.90	-0.2
	1.5s	543.00nm			6.4mb
	Z 16s	70.60um			7.1MszX
			ePP	20 08.00	
			eS	26 56.00	
			eScS	27 26.00	
			eSS	32 08.00	
BRZ	76.91	148	eP	17 13.00	0.5
MGN	76.97	309	P	17 14.20	1.0
RHP	77.06	146	iP	17 13.80	0.3
KIS	77.83	316	Pd	17 17.00	-0.7
			iS	27 06.00	
			iS	27 16.00	
SNZO	77.83	142	eP	17 17.60	-0.1
WEL	77.86	141	iPd	17 18.50	0.7
			PP	20 20.00	
			S	27 13.00	
			SS	33 16.00	
			LQ	40 00.00	
			LR	43 00.00	
MNG	77.87	141	iPd	17 17.50	-0.5
			i	17 59.00	
UME	77.93	334	Pd	17 17.00	-0.9
			iS	26 57.00	
			iSKS	27 36.00	
GNZ	78.27	138	iP	17 21.90	1.7
PCA	78.29	30	P	17 21.10	1.0
IAS	78.65	316	eP	17 23.00	0.8
BIR	78.85	315	eP	17 25.00	1.7
ALT	78.98	308	P-	17 24.00	-0.3
BCK	79.03	306	P	17 23.10	-1.5
ISK	79.22	310	P	17 25.30	-0.2
BAC	79.25	316	eP	17 23.00	-2.5
			eS	27 23.00	
IST	79.28	310	P-	17 25.00	-0.8
			PKP	20 28.00	
BKT	79.41	309	P	17 25.40	-1.4
VRI	79.56	315	P	17 26.10	-1.1
			eS	27 27.00	
CTT	79.66	310	P	17 26.40	-1.5
AAE	79.69	276	eP	17 30.50	1.6
ELL	79.74	305	P-	17 27.00	-1.6
DST	79.94	308	P	17 28.80	-0.7
LVV	80.17	319	Pd	17 31.10	0.7
			iS	27 31.00	
MLR	80.19	315	Pd	17 31.50	0.7
EDC	80.30	309	P	17 30.40	-0.9
BUC	80.40	314	eP	17 32.00	0.3
			iPP	17 33.00	
			iPP	20 30.00	
			iS	27 38.00	
UPP	80.41	330	Pd	17 30.70	-0.7
			i	27 34.00	
BUC1	80.46	314	iPd	17 30 00	-2.0
HLW	80.47	298	iPd	17 33.00	0.6
			iS	27 18.50	
CMP	80.87	315	P	17 35.10	0.9
			eP	17 36.00	
			eS	27 38.00	
YER	80.89	306	P	17 34 50	0.0
AVY	80.92	247	iPd	17 34.00	-1.1
WAR	81.21	322	ePd	17 38.00	2.2
	Z 18s	33.00um			6.7Msz
			ePP	20 42.00	
			eS	27 42.00	
			ePS	28 46.00	
PVL	81.41	313	Pd	17 37.00	-0.1
DIM	81.45	311	eP	17 38.00	0.7
UZH	81.61	318	Pd	17 39.00	1.0
			pP	17 50.00	35kmX
			eS	27 48.00	
DAG	81.68	351	iPd	17 37.10	-0.7
			iS	27 47.00	
			iPS	28 48.00	
KDZ	81.74	311	Pd	17 39.00	0.2
SIT	81.74	32	P	17 39.70	1.3
APO	81.86	331	P	17 38.15	-0.9
DEV	82.11	316	eP	17 36.00	-4.6X
HFS	82.13	331	P	17 39.70	-0.7
	0.9s	114.00nm			5.9mb
			e	55 00.00	
SLL	82.16	332	P	17 39.97	-0.7
NIE	82.58	320	iPd	17 42.00	-1.1
	0.8s	120.00nm			6.0mb
KRA	82.59	320	iPd	17 43.10	0.0
	0.7s	198.00nm			6.3mb
	Z 20s	25.00um			6.6Msz
	N 20s	23.00um			
	E 20s	18.00um			
			ipP	17 50.00	22kmX
			ePP	20 56.00	
			eS	27 56.00	
			eSS	33 24.00	
SPC	82.71	319	iPd	17 43.40	-0.5
	Z 15s	27.70um			6.7MszX
			i(PP)	20 54.00	
JOS	82.76	319	Pd	17 43.80	-0.2
			i	18 35.00	
			i	19 32.00	
			i	21 44.00	
N82	82.86	332	P	17 43.40	-0.9
	0.8s	32.20nm			5.5mb
			PP	20 53.20	
VTS	82.96	312	Pd	17 46.00	0.9
			iS	28 00.00	
OUR	83.13	310	ePd	17 45.30	-0.7
SRS	83.16	311	ePd	17 45.00	-1.2
SSR	83.21	315	P	17 47.10	0.7
TIM	83.26	316	Pc	17 45.40	-1.2
PSZ	83.37	318	P	17 47.30	0.1
SOH	83.43	311	eP	17 47.40	-0.2
PAIG	83.48	310	ePd	17 47.00	-0.8
KNT	83.64	311	ePd	17 47.60	-1.1
THE	83.77	311	iPc	17 48.80	-0.5
			iSn	28 00.00	
VAY	83.82	311	iPd	17 48.80	-0.7
GRG	84.06	311	eP	17 49.60	-1.2
BUD	84.07	318	Pc	17 51.00	0.3
			i	18 23.00	
			i	19 24.00	
			iPP	21 10.00	
ATH	84.09	308	iPd	17 50.00	-0.9
			iS	28 10.00	
BEO	84.09	315	P	17 49.80	-1.0
			iS	28 20.80	
KON	84.20	332	iP	17 50.30	-0.8
LIT	84.29	310	eP	17 50.30	-1.7
SKO	84.40	312	iPd	17 52.00	-0.5
			iPP	21 12.00	
			iS	28 16.50	
			iPS	29 12.00	
			iSS	33 56.00	
			iSSS	37 40.00	
SRO	84.40	319	eP	17 51.60	-0.7
	N 16s	19.70um			
	E 16s	17.80um			
			e	19 20.00	
			i	21 15.60	
			e(S)	28 19.00	
			e	28 27.00	
KSP	84.47	322	eP	17 53.00	0.4
	1.3s	190.00nm			6.1mb
			i	17 54.00	
			i	18 04.50	
			e	28 17.50	
COP	84.61	327	iPc-	17 54.50	1.4
	1.4s	744.00nm			6.7mb
			ePP	21 10.00	
			iSKS	28 17.00	
OHR	85.15	312	eP	17 52.20	-4.1X
			eS	28 19.20	
VIE	85.44	320	Pd	17 59.00	1.5
			i	18 53.00	
			i	19 18.00	
			PP	21 18.00	
			i	22 09.00	
			i	29 30.00	
			e	05 00.00	
BRL	85.52	324	ePd	17 59.00	1.2
SOP	85.54	319	Pd	17 57.00	-1.0
			i	33 41.00	
			i	33 54.00	
			e	36 10.00	
BRN	85.59	324	iPd	17 59.00	0.9
			eS	28 29.00	
BER	85.72	333	iP	17 58.30	-0.3
TIR	85.72	312	P	18 00 60	1.5
TTG	85.75	313	P	17 48.50	-10.7X
BRG	85.82	323	iPd	17 59.50	0.1
			i	18 07.00	
			PP	21 18.00	
			S	28 33.00	
			SP	29 28.00	
			SS	34 08.00	
PRU	85.84	322	iPd	18 00.00	0.5
	1.9s	857.00nm			6.6mb
	Z 18s	19.80um			6.6Msz
	N 15s	28.20um			
	E 20s	13.90um			
			i	18 07.30	
			PP	21 16.00	
			S	28 28.00	
			e	29 23.00	
PRA	85.87	322	iPd	18 00.00	0.4
			PP	21 24.00	
			PS	29 20.00	
CLL	86.18	323	iPd	18 00.90	-0.2
			i	18 08.00	
			PP	21 20.00	
			e	24 40.00	
			SKS	28 16.00	
			S	28 33.00	
			P'P'	44 19.00	
DRV	86.36	172	P+	18 01.90	0.4
KHC	86.77	321	iPd	18 04.40	0.3
	2.0s	635.00nm			6.5mb
	Z 16s	15.70um			6.5MszX
	N 16s	10.50um			
	E 16s	13.90um			
			PP	21 27.00	
			S	28 30.00	
KMR	86.89	320	iPd	18 05.40	0.7
			i	21 31.00	
			e	29 09.00	
			e	02 08.00	
NPA	87.05	253	eP	18 07.00	1.1
WET	87.18	321	iPd	18 05.50	-0.6
	2.5s	15.40nm			4.8mb X
HOF	87.25	323	iPd	18 06.60	0.2
	2.0s	696.00nm			6.6mb
	Z 18s	36.00um			6.8Msz
			eS	28 42.00	
MOX	87.26	323	iPd-	18 06.50	0.1
			PP	21 32.00	
			SKS	28 30.00	
			PS	29 40.00	
RAR	87.26	113	ePd	18 08.00	1.2
			SKS	28 40.00	
			S	29 53.00	
LJU	87.48	318	iPd	18 07.60	0.0
			ePP	21 35.00	
			ePPP	23 47.00	
			eSKS	28 41.00	
MIR	87.56	191	Pd	18 07.00	-0.3
			iS	28 34.00	
BHG	87.79	320	eP	18 09.20	0.1
	2.0s	946.00nm			6.7mb
GRF	87.91	322	ePd	18 09.90	0.3
	2.3s	995.00nm			6.7mb
	Z 14s	33.60um			6.9MszX
			ePP	21 37.00	
YKA	88.09	22	P	18 12.10	1.9
TRI	88.10	318	iPd	18 10.00	-0.5
			iPP	21 25.30	
			iS	28 40.00	
			eSP	29 43.00	
			eSS	34 48.00	
			eSSS	38 18.00	
			i	41 24.00	
MPRI	88.37	319	P	18 14.70	2.8
FUR	88.57	321	iPd	18 13.20	0.4
	2.2s	2000.00nm			7.0mb
			i	21 44.50	
ORI	88.62	312	P	18 15.00	1.9
ROI	88.72	311	P+	18 14.20	0.5
CSI	88.84	312	P+	18 14.60	0.3
TNS	89.25	324	ePd	18 15.90	-0.1
WTS	89.28	326	ePd	18 16.00	0.0
			e	18 28.00	
CTI	89.29	319	P-	18 15.50	-0.9
OGA	89.30	320	iPd	18 16.50	-0.1
	2.0s	913.00nm			6.7mb
DUI	89.34	314	P-	18 16.50	0.0
PRO	89.41	317	P	17 22.10	-54.7X
ALP	89.47	315	P-	18 17.10	0.0
STU	89.51	322	iPd-	18 17.00	-0.2
	2.8s	1430.00nm			6.8mb

22d 15h

	Z	20s	13.50um		6.4Msz		PNI	92.51	319	P	18	28	80	-2.4		LGR	99.81	321	eP	19	06.80	2.3
BNS		89.59	325	iPd	18	18.00	0.5	CVF	92.66	317	eP	18	31	80	-0.1					iPP	23	08.00	
AQU		89.76	315	P	18	18.50	-0.1	LOR	93.37	323	eP	18	34	60	-0.5		SBA	99.94	171	eP	19	05.00	0.8
				e	24	49.50		LBF	93.45	322	eP	18	35	00	-0.5					PP	22	50.00	
MES		90.00	311	P	18	18.70	-0.9	FRF	93.60	318	eP	18	35	90	-0.3					SKS	29	44.00	
DBN		90.09	326	iPd	18	20.00	0.2	SSF	93.68	323	eP	18	36	00	-0.5					S	30	42.00	
	Z	21s	15.80um		6.4Msz			1.6s	161.00nm		6.2mb									SP	32	03.00	
				ePP	21	56.00		SMF	93.71	322	eP	18	36	10	-0.5					SSS	41	52.00	
				eSKS	28	55.00		LMR	93.80	318	eP	18	37	00	-0.1					LQ	50	00.00	
				ePS	30	16.00		LRG	93.83	318	eP	18	37	20	0.0					LR	55	00.00	
PRG		90.11	316	P	18	22.00	1.9	AVF	93.91	322	eP	18	37	10	-0.4		SLR	100.13	246	iPdiff	19	06.70	0.3
				e	22	14.00		MZF	94.67	322	eP	18	40	90	-0.2			1.2s	117.00nm			6.3mb	
BUH		90.12	322	eP	18	19.50	-0.6	PYM	94.68	322	P	18	41	00	-0.2			Z 18s	33.30um			6.9Msz	
SAL		90.19	319	P-	18	21.00	0.6	TCF	94.85	322	eP	18	41	80	-0.1					i	23	10.20	
MNS		90.23	315	P-	18	19.70	-0.9		1.6s	153.00nm		6.2mb					PRI	100.28	46	iPdiff	19	08.20	1.4
				iPP	21	57.00		SSC	94.85	325	eP	18	41	00	-0.8		FRI	100.47	45	iPdiff	19	08.30	0.8
GWF		90.33	323	P-	18	20.80	-0.2	DMU	94.92	332	eP	18	40	10	-1.9		ALI	100.94	317	iPdiff	19	10.00	0.5
ENN		90.38	325	ePd	18	21.00	-0.2		1.7s	430.00nm		6.6mb								iPP	23	16.00	
				e	18	33.00		FLN	94.95	325	eP	18	41	20	-1.1		KSR	101.37	246	iPdiff	19	12.50	0.5
				ePP	21	33.00			1.6s	65.40nm		5.8mb						0.7s	13.70nm			5.7mb	
MEM		90.41	325	Pc	18	24.70	3.4X	DDK	95.00	331	eP	18	41	10	-1.3		EUR	101.49	41	iPdiff	19	13.50	1.2
RMP		90.47	315	P-	18	21.00	-0.8		1.5s	260.00nm		6.4mb						1.2s	21.50nm			5.6mb	
				iPP	21	59.00		DKM	95.05	331	eP	18	41	10	-1.5		TOL	102.29	320	Pdiffd	19	17.00	1.5
				iS	28	52.00			1.7s	230.00nm		6.3mb								iPP	23	24.00	
				iPPS	30	24.00		DLE	95.15	331	eP	18	41	70	-1.4					iPS	32	38.00	
LLS		90.54	320	P	18	22.00	-0.3		2.0s	420.00nm		6.5mb					PAS	103.07	47	ePdiff	19	15.00	-4.1X
FIR		90.55	317	Pd	18	23.50	1.4	LSF	95.26	323	eP	18	43	30	-0.5			Z 20s	13.00um			6.5Msz	
				PP	21	46.00			1.6s	108.00nm		6.0mb						N 20s	18.00um				
				PPP	23	36.00		GRR	95.37	325	eP	18	43	50	-0.7			E 20s	12.00um				
				S	28	06.00		DCN	95.45	332	eP	18	39	00	-5.5X					ePP	23	30.00	
ZUL		90.61	321	Pd	18	21.50	-0.9		1.5s	170.00nm		6.3mb								eSKS	30	00.00	
PRT		90.61	317	P	18	23.00	0.6	FHC	95.63	44	iP	18	47	00	1.4					eS	31	06.00	
				iPP	22	00.00		NEW	95.64	35	eP	18	46	20	0.6					ePS	32	44.00	
				iS	29	01.00		LPF	95.68	325	eP	18	45	00	-0.6					eSS	38	32.00	
				iPS	31	29.50		CAF	95.69	321	eP	18	45	80	0.0					eSSS	42	04.00	
MEI		90.72	310	P	18	22.50	-0.5		1.6s	90.60nm		6.0mb					SFS	105.73	318	ePdiff	19	30.00	-0.8
CDF		90.80	322	eP	18	23.00	-0.3	ECP	95.80	330	eP	18	45	70	-0.4					iPP	23	44.00	
		1.6s	321.00nm		6.4mb			0.9s	40.00nm		5.9mb									eS	31	30.00	
WLF		90.81	324	ePd	18	28.00	4.8X	RJF	95.80	322	eP	18	46	50	0.2					ePS	34	18.00	
				PP	22	06.00			1.4s	170.00nm		6.3mb					ALQ	110.24	40	ePdiff	19	52.00	0.7
ECH		90.97	322	P-	18	23.60	-0.4	CIR	95.87	250	eP	18	47	00	0.1			Z 22s	27.80um			6.8Msz	
				ePP	21	59.00					iPP	22	39	00						e	23	53.00	
				ePPP	24	02.00		MAW	95.88	199	eP	18	46	00	0.1		CHI	114.16	23	PKP	24	52.50	52.7X
				iSKS	28	59.00		MFF	96.02	324	eP	18	47	00	-0.2		SIO	115.38	33	iPKP	24	02.70	0.4
PCN		90.98	319	P	18	26.50	2.5		1.6s	175.00nm		6.3mb					TUL	115.52	32	ePKP	25	03.30	60.8X
				eS	28	34.00		YKM	96.03	34	iPc	18	49	70	2.2			1.5s	70.30nm				
BBS		91.14	321	Pd	18	23.50	-1.3	RXF	96.34	33	iPc	18	50	80	2.0			Z 20s	17.10um			6.7Msz	
BVT		91.18	318	P	18	25.40	0.5	LPO	96.34	321	eP	18	48	80	0.1		RLO	115.71	32	ePKP	24	02.80	-0.1
GIB		91.19	311	P	18	24.00	-1.3	KRI	96.38	254	eP	18	48	00	-1.5		GBO	115.87	32	iPKPd	24	03.50	0.3
UCC		91.21	325	Pd-	18	24.80	-0.2	LFF	96.46	322	eP	18	49	30	0.0		FVM	116.38	27	ePKP	24	03.00	-1.1
				PP	22	03.00		LDM	96.49	34	iPc	18	51	40	2.0		BHO	117 19	33	ePKP	24	05.90	0.2
				SKS	29	01.00		WDC	96.69	43	iPd	18	51	30	0.9			1.4s	160.00nm				
				S	29	26.00		CNG	96.93	245	iPc	18	50	00	-1.5		JCT	117.36	39	iPKPd	24	06.70	0.4
				SP	30	28.00					e	22	51	00				Z 18s	23.00um			6.8Msz	
BAF		91.25	322	P-	18	24.80	-0.6	MLS	97.37	320	eP	18	53	40	0.0					i	25	16.00	
BSF		91.37	322	eP	18	25.40	-0.6	MIN	97.42	43	iP	18	54	00	0.1		SCP	118.26	16	ePKP	24	07.20	-0.4
		1 6s	273.00nm		6.4mb			VAL	97.73	332	Pd	18	56	00	1.2		SNA	118.44	199	e(PKP)	24	08.00	1.0
DOU		91 45	325	ePd	18	26 00	-0.1				PPP	22	52	00			ORT	120.65	24	ePKP	24	12.30	0.0
				PP	22	03.00					PPS	31	40	00			BLA	120.84	20	iPKPc	24	23.10	10.4X
				SKS	29	02.00					SS	36	48	00			KIC	120.84	290	ePKP	24	12.50	-0.8
EDU		91.50	333	eP	18	24.80	-1.5				LQ	49	15	00			KDS	124.22	300	iPKP	24	19.90	0.2
		1.5s	566.00nm		6.7mb						LR	55	20	00			IIC	125.12	48	ePKP	24	22.10	0.3
HAU		91.54	322	eP	18	26.30	-0.4	EPF	97.78	320	eP	18	54	50	-0.8		IIP	125.64	48	ePKP	24	23.50	0.7
NEC		91.69	321	Pd	18	26.50	-0.9		1.4s	18.90nm		5.4mb					III	125.89	49	ePKP	24	23.80	0.6
GEN		91.74	318	P	18	27.00	-0.6	ORV	97.91	44	iPd	18	56	10	0.2		IIT	126.29	48	ePKP	24	24.30	0.3
				eS	43	20.00		SET	98.12	312	P	18	58	00	1.0		MBO	126.95	305	iPKP	24	26.50	1.6
DIX		91.88	320	Pd	18	28.00	-0.5	BUL	98.27	252	P+	18	57	00	-0.9					i	24	33.60	
EBH		91.91	333	eP	18	27.40	-0.7				iPP	23	01	00						i	24	37.00	
		1.5s	350.00nm		6.6mb						iS	29	34	00						i	26	25.10	
PGC		91.92	37	eP	18	20.00	-8.3X	BKS	98.30	45	eP	18	58	80	1.1					e	27	45.10	
EBL		92.00	332	iPc	18	28.30	-0.2		2.2s	390.00nm		6.5mb								e	28	19.30	
		1.4s	291.00nm		6.5mb				Z 22s	23.00um		6.6Msz					LPS	135.83	44	PKP	24	41.00	-1.0
EAU		92.13	332	ePc	18	28.70	-0.5		N 22s	7.00um										PP	27	18.00	
		1.3s	353.00nm		6.6mb				E 22s	26.00um										SKS	28	22.00	
GDH		92.15	358	iPc	18	30.00	1.0				eS	29	41	50			LSP	142.49	12	ePKP	24	41.00	-12.9X
		1.5s	211.00nm		6.3mb						ePS	31	45	50			LCR	142.57	43	PKP	24	51.00	-3.4X
				iPP	22	10.00					eSS	36	40	00			SJG	142.73	11	ePKP	24	49.00	-5.4X
				iSKS	29	00.00					eSSS	40	02	00			GAL	146.63	30	iPKP	25	01.20	0.2
				iSS	35	34.00		EBR	98.93	318	eP	19	01	00	0.6		FDF	146.67	3	ePKP	25	02.40	1.3
ERC		92.19	311	P	18	29.00	-0.7				ePP	23	01	00			LGN	148.91	24	ePKP	24	55.00	-9.6X
EAB		92.31	333	eP	18	29.10	-0.8				eSKKS	30	01	00			TOV	149.77	21	iPKPc	25	08.20	2.1
		1.5s	312.00nm		6.5mb			MHC	98.98	46	iP	19	02	00	1.1		CAR	149.94	15	ePKP	25	06.50	0.1
EKA		92.32	332	P	18	30.00	0.0	ARN	99.05	46	eP	19	02	00	0.9		SDV	150.30	23	ePKP	25	07.90	0.9
		1.6s	417.00nm		6.6mb			AMM	99.22	35	eP	19	03	50	1.5			0.6s	33.30nm				
ESK		92.35	332	eP	18	31.50	1.3	JAS	99.47	45	iPd	19	03	80	0.8		UAV	150.36	25	ePKP	25	07.50	0.4
ROB		92.47	319	P	18	30.00	-1.0				P'P'	43	46	00				1.7s	429.00nm				
REY		92.50	345	iP	18	32.20	1.5	LRM	99.66	35	eP	19	04	20	0.1		CUM	150.55	10	ePKP	25	21.00	13.9X

22d 15h

TRN	150.71	4	ePKP	25	08.50	1.2				eS	25	10 00		IID	8.96	143	P-	23	52.10	-1.3
	1.0s	276.00nm					TOY	7.68	141	P-	23	41.00	0.5				iS	25	35.40	
CHN	151.40	36	ePKP	25	09.00	0.3				eS	25	13.00		SHR	8.97	127	P	23	51.30	-2.2
FUQ	151.98	32	ePKP	25	01.00	-8.8X	TOT	7.70	162	P	23	42.00	1.3	SUM	9.00	160	P	23	54.00	0.2
BOG	152.53	34	iPKP	25	12.50	2.0				iS	25	15.80		IIDJ	9.02	143	P	23	52.20	-1.8
PSO	153.33	44	iPKP	25	13.50	1.8	TOTJ	7.75	161	P	23	42.00	0.8	CHJJ	9.07	136	P	23	52.00	-2.6
LM2	161.53	72	ePKP	25	23.50	2.5X	FUK	7.83	149	P	23	42.00	0.0	MTY	9.10	172	P	23	55.80	1.0
NNA	161.69	71	ePKP	25	22.40	1.2				eS	25	16.00					()	25	38.00	
	1.0s	84.00nm					TYK	7.84	158	P	23	40.00	-2.1	YSS	9.12	59	Pd	23	54.20	-0.8
		e(S)	26	08.10						eS	25	11.00					iS	25	37.00	
SAN	162.11	147	PKP	25	23.00	1.8	YONJ	7.87	167	P+	23	43.50	1.0	TSU	9.14	152	P	23	55.00	-0.2
PEL	162.34	146	PKP	25	22.00	0.6	TKD	7.88	135	P	23	42.00	-0.5				eS	25	39.00	
HUA	163.06	69	PKP-	25	26.00	2.9X				eS	25	17.00		TKSJ	9.15	165	P	23	56.00	0.7
			eP	26	08.00		WAK	7.92	68	P-	23	42.30	-0.6	KOF	9.16	139	P	23	53.00	-2.5
			iS	29	59.00					eS	25	18.00					eS	25	38.00	
LPA	163.87	184	PKPd	25	21.00	-1.8	HMD	8.00	175	P+	23	44.10	0.4	WKY	9.16	159	P	23	57.00	1.5
			e	26	17.00					S	25	20.90					eS	25	43.20	
			PP	30	01.00		HAC	8.04	104	P	23	41.50	-2.6	UTS	9.17	131	P-	23	52.90	-2.6
			SKS	32	26.00					S	25	14.60					S	25	36.40	
			SKKS	36	44.00		MTMJ	8.06	139	P	23	44.00	-0.5	TKS	9.18	162	P	23	56.00	0.4
			e	37	26.00		MAI	8.06	155	P	23	45.00	0.7				eS	25	41.30	
			SKSP	40	16.00		MRK	8.12	110	P	23	42.80	-2.1	KMG	9.20	134	P	23	53.00	-2.8
			PPS	43	34.00					S	25	18.20					S	25	34.80	
BAA	164.21	182	PKPd	25	25.60	2.5	ASA	8.16	80	P-	23	43.90	-1.4	DDR	9.21	136	eP	23	52.90	-3.2X
			PKP	26	19.60					S	25	17.50					eS	25	37.80	
			PKS	29	05.60		TKY	8.16	143	P	23	46.00	0.6	WKYJ	9.29	157	P	23	56.00	-0.8
			PP	29	59.60		YAMJ	8.18	122	P	23	44.00	-1.5	FKK	9.31	184	P+	23	58.10	1.2
TLL	164.48	139	PKP	25	25.90	2.0	NIIJ	8.19	131	P-	23	43.90	-1.7				iS	25	47.90	
RDJ	164.53	252	PKPd	25	25.60	1.9	NGN	8.19	137	P-	23	45.30	-0.4	KOC	9.48	168	P	24	00.00	1.3
			i	26	20.00					S	25	22.20					S	25	45.80	
			iPP	30	08.00		TSRJ	8.20	152	P-	23	45.90	0.2	ONA	9.49	125	P	23	56.10	-2.7
			iSKKS	36	39.60		MAT	8.29	137	P-	23	45.50	-1.2				S	25	40.30	
			iSKSP	40	39.20					iScS	35	31.80		TSK	9.54	131	eP	23	55.50	-3.9X
			iPPS	44	10.00		YAM	8.32	121	P-	23	45.20	-1.8	ABJ	9.55	79	P-	23	58.60	-0.8
CEN	164.57	148	e(PKP)	25	21.00	-2.7X				S	25	22.00					eS	25	44.00	
CFA	164.80	149	PKPd	25	24.50	0.6				eScS	35	35.00					eScS	35	36.00	
ARE	168.03	81	iPKPd	25	29.00	2.0	MIZ	8.36	113	iPd	23	45.60	-1.7	SRY	9.56	137	eP	23	55.90	-3.6X
	2.0s	706.00nm								S	25	23.00		KAKJ	9.58	131	P-	23	56.00	-3.7X
			e	26	37.50		ASAJ	8.38	78	P	23	45.90	-1.6	HMM	9.59	146	P	23	59.00	-0.8
			e	30	20.00					eS	25	24.00					eS	25	45.00	
			e	44	20.00		SHK	8.41	172	iPc	23	48.00	0.2	OWA	9.61	155	P+	23	59.70	-0.3
			e	51	08.00					eS	25	26.80					S	25	44.60	
			e	53	04.00		OKA	8.44	165	P	23	50.00	1.8	MIT	9.63	129	P-	23	56.40	-3.8X
CYA	168.60	149	PKPd	25	28.50	1.7				eS	25	28.00					eS	25	41.00	
FDA5	169.75	223	PKP	25	29.40	1.8	HIM	8.47	160	P	23	50.00	1.6				eScS	35	35.00	
			e	25	37.30					()	25	29.00		OIT	9.63	178	P	24	01.00	0.8
ZOBO	171.11	75	PKP	25	30.80	1.7	HIK	8.53	151	P	23	49.00	0.0				eS	25	52.00	
LPB	171.21	77	PKP	25	31.30	2.3				S	25	27.30		SAG	9.64	185	P+	24	01.60	1.2
	1.8s	955.00nm					URA	8.55	91	P-	23	47.60	-1.6				S	25	53.40	
	Z 23s	16.30um								iS	25	26.30		KUS	9.65	85	P-	23	57.80	-2.6
	S.D. = 1.1	on 435 of 470 obs.					HIR	8.55	173	P+	23	49.70	0.4				S	25	42.40	
										eS	25	30.00		SHZ	9.66	142	P	23	59.00	-1.5
	NOV 27, 1981 17h 21m 45.37± 0.05s									eScS	35	34.00					eS	25	45.00	
	42.877 N ± 1.1km 131.247 E ± 1.2km						KYO	8.60	155	P	23	50.00	0.3	UWA	9.69	173	P	24	01.00	0.2
	DEPTH = 544.2km (47 depth phases)									eS	25	25.00		TOK	9.75	135	P	24	00.50	-0.9
	5.8mb (66 obs.)						SEN	8.67	119	P-	23	48.30	-2.2				S	25	47.50	
	E. USSR-N.E. CHINA BORDER REG. (657)									iS	25	26.50		UGL	9.76	47	Pc	24	01.60	0.1
							A8U	8.69	156	Pd	23	50.50	-0.1				eS	25	43.60	
VLA	0.53	63	Pd	22	51.80	1.6	MIY	8.70	108	P	23	48.20	-2.5	MIS	9.79	140	P+	24	00.70	-1.1
			iS	23	44.00					iS	25	25.30					iS	25	48.40	
CN2	4.33	284	iPc	23	09.60	-0.4	FKS	8.71	123	P-	23	49.00	-1.8	KUSJ	9.87	84	P	24	00.80	-1.9
			iS	24	14.00					iS	25	28.00					eS	25	49.00	
			PcP	29	20.00		SHNJ	8.74	181	P	23	52.00	0.8	MRT	9.89	166	P	24	02.00	-0.9
			iScS	35	27.00		OFUJ	8.75	112	P	23	48.10	-3.1X				()	25	51.00	
SUT	6.61	88	P	23	28.90	-1.2	OFU	8.79	112	P	23	48.50	-3.1X	YOK	9.89	136	P	23	58.00	-4.8X
			S	24	53.50					S	25	26.50					S	25	50.00	
SAI	6.86	166	P+	23	34.20	1.7	O8I	8.79	86	P-	23	49.80	-1.9	AJI	9.92	139	P	24	01.40	-1.8
			eS	24	59.00					eS	25	31.00					S	25	50.20	
WAJ	6.98	140	P-	23	34.50	0.8	TKM	8.83	165	P	23	53.00	1.0	TK04	9.93	146	P	24	03.00	-0.2
			eS	25	00.00					eS	25	32.50		KTJ	10.00	140	P-	24	01.30	-2.7
HAK	7.13	95	P	23	33.20	-1.9	MAE	8.84	134	P-	23	50.50	-1.7				S	25	52.00	
			S	25	01.20					S	25	31.50					ScS	35	35.00	
AIK	7.21	130	P-	23	34.90	-1.0	OSA	8.84	156	P-	23	52.00	-0.2	KUM	10.06	183	P+	24	05.90	1.3
			eS	25	04.00					S	25	35.00					eS	26	01.00	
AOMJ	7.21	106	P	23	34.40	-1.5	ISN	8.84	117	P	23	49.20	-3.0	SHJ	10.06	158	P	24	04.00	-0.6
MRRJ	7.26	90	P	23	34.60	-1.8				iS	25	29.40					()	25	54.00	
AKI	7.38	112	P-	23	36.90	-0.6				eScS	35	34.00		TK03	10.16	147	P	24	05.00	-0.5
			S	25	02.20		HOOJ	8.89	89	P	23	50.40	-2.3	NGS	10.19	187	P	24	07.00	1.1
SAP	7.40	85	P-	23	37.00	-0.8				S	25	31.30					iS	26	03.60	
			iS	25	06.50		NAG	8.89	148	P+	23	52.00	-0.7	ASZ	10.24	172	P	24	01.00	-5.4X
AOM	7.41	103	P	23	37.00	-0.9				S	25	35.00					eS	25	58.00	
			eS	25	06.00		SHN	8.91	182	P	23	54.00	1.1	TK02	10.27	148	P	24	06.00	-0.5
MTS	7.55	169	P+	23	40.10	0.9				eS	25	34.00		NO8	10.28	178	P	24	09.00	2.1
			S	25	12.40		NAR	8.93	155	P	23	53.00	-0.1				eS	26	02.00	
KAN	7.57	145	P-	23	40.20	0.8	OSK	8.94	156	P-	23	53.50	0.2	OSH	10.29	139	P	24	05.00	-1.9
			eS	25	08.00					iS	25	35.50					eS	25	54.40	
RMJ	7.64	78	P-	23	39.00	-1.1				eScS	35	33.00		CHO	10.30	131	P	24	05.20	-1.9

27d 17h

			S	25	54.20					S	30	10.00					eS	34	08.50				
KYS	10.33	135	eP	24	04.00	-3.3X	CD2	24.90	250	Pd	26	26.00	-1.0	FRU	40.83	290	Pd	28	40.70	-0.2			
KUMJ	10.33	182	P	24	08.00	0.6				sP	29	00.00					iS	34	13.00				
FKJ	10.34	191	P	24	09.00	1.6				S	30	09.00					isS	37	11.00				
			S	26	06.50					ScS	36	22.00		ANM	41.09	36	ePc	28	43.80	1.2			
TK01	10.37	149	P	24	06.00	-1.4	HKC	24.97	220	P	26	27.00	-0.5	KSH	41.12	285	iPd	28	44.00	0.7			
TMS	10.38	137	P	24	06.00	-1.9	GYA	25.88	239	Pd	26	34.00	-1.8				PP	30	35.00				
			S	25	57.70					SP	29	11.00					S	34	20.00				
NEM	10.50	83	P	24	07.00	-2.1				S	30	22.00					ScS	37	47.00				
			eS	26	01.00		CVP	26.34	201	ePc	26	40.00	0.3	MNI	41.65	190	ePc	28	48.30	0.8			
MYZ	10.94	179	P	24	14.00	0.4	UER	26.45	302	Pd	26	39.20	-1.1	MUR	43.02	284	P	28	58.90	0.1			
			eS	26	14.00					iS	30	34.20					iS	34	46.70				
TYV	11.15	40	P	24	16.00	0.4	SZP	26.86	203	eP	26	46.00	1.8	ANR	43.16	288	Pd	28	59.30	0.0			
			iS	26	16.80			1.0s	228.00nm			5.7mb					iS	34	47.00				
KAG	11.30	183	P	24	20.50	3.3X				e	28	15.00		NAM	43.56	289	Pd	29	02.40	0.1			
			S	26	36.00		BAG	27.91	202	P	26	51.00	-2.6				eS	34	54.80				
SHO	11.37	80	Pd	24	16.70	-1.2	TIK	28.86	358	Pc	26	59.50	-1.6	FRG	43.71	288	Pd	29	03.20	-0.5			
			iS	26	18.20					esP	29	34.00					epP	29	55.00	246kmX			
BJI	11.66	261	iPd	24	21.00	0.1				eS	31	10.00					S	34	48.70				
			iS	26	24.00		KMI	29.33	242	iPd	27	05.00	-1.0				iS	35	14.00				
			ScS	35	37.00					PP	28	37.00		KHO	45.11	284	Pc	29	14.70	0.0			
KAGJ	11.67	182	P	24	19.00	-2.0				SP	29	42.00					S	35	12.40				
HJJ	11.85	143	P	24	20.00	-2.8				iS	31	19.00		KHE	45.28	347	Pc	29	15.00	-0.3			
			S	26	30.30					SS	34	14.00					iS	35	13.00				
NKL	12.06	28	P	24	24.50	-0.3				ScS	36	38.50		GAR	45.31	287	P	29	15.30	-0.9			
			iS	26	31.50		MAN	29.45	200	eP	27	07.80	1.1				iS	35	17.30				
KUR	12.19	73	Pd	24	27.00	0.8				eS	31	28.50		NDI	45.33	270	iP	29	16.00	-0.2			
			iS	26	38.00		SMY	30.01	56	iPc	27	12.10	0.9		0.8s	478.00nm				6.1mb			
REI	12.30	73	P	24	27.70	0.4	CNP	30.79	193	ePc	27	18.80	0.7		Z 20s	3.55um				5.3Msz			
			iS	26	41.10			0.9s	1070.00nm			6.5mb			N 20s	1.06um							
OKH	13.20	32	Pc	24	35.30	-1.0	ELT	31.31	305	Pd	27	21.40	-0.8		E 20s	2.13um							
			iS	26	55.30					eS	31	40.40					iPP	29	27.50				
TUP	13.76	331	Pd	24	41.70	-0.3	WMQ	31.42	287	iPd	27	23.50	0.1				iPPP	31	14.00				
			S	27	07.20					PP	28	55.50					iS	35	15.00				
SSE	14.23	218	Pd	24	49.00	2.2				S	31	54.00		TTA	45.36	38	iP	29	17.00	0.9			
			S	27	17.00					SS	34	33.00		SVE	45.54	313	Pd	29	17.00	-0.5			
NJ2	14.60	226	iPd	24	51.00	0.5				iScS	36	50.50					epP	30	56.50	539km			
			SP	26	44.00		GUMO	31.47	154	e(P)	27	25.20	1.3				isP	32	00.00				
			iS	27	20.50					e(S)	31	54.00					iS	35	18.00				
			ScP	32	06.00		GUA	31.53	154	e(P)	27	23.50	-0.9	MNL	45.55	278	eP	29	16.90	-1.0			
			ScS	35	46.50			0.7s	115.00nm			5 6mb		NIL	45.66	278	iPd	29	18.20	-0.6			
TIY	15.25	257	iPd	24	58.00	1.0	PLP	32.06	192	eP	27	29.00	0.2	BKB	45.84	200	ePc	29	23.00	2.8			
			iS	27	36.00			0.7s	208.00nm			5.9mb			1.0s	776.00nm				6.2mb			
BTO	16.01	269	iPd	25	05.00	0.5	UKR	32.31	301	eP	27	31.00	0.4	IMA	45.88	33	iPc	29	20.60	0.4			
			SP	27	13.50					iS	32	03.00		LAH	45.92	275	eP	29	17.50	-3.3X			
			S	27	50.00		NVS	33.09	308	Pd	27	36.90	-0.2	JAY	45.98	167	ePd	29	21.50	0.1			
			ScS	35	48.00					iS	32	15.00			1.0s	76.20nm				5.2mb			
WHN	18.26	233	iPd	25	27.50	1.3				iS	32	17.00		KUL	46.19	286	Pd	29	22.10	-0.7			
			SP	27	40.00		NRI	34.52	335	Pd	27	46.60	-2.4				iS	35	27.80				
			iS	28	24.00					isP	30	24.00		AAI	46.43	184	ePc	29	24.50	-0.2			
			iScS	35	55.00					iS	32	33.00		DSH	46.59	287	Pd	29	25.20	-0.7			
BOD	18.44	330	Pd	25	26.90	-0.8	LSA	34.57	261	iPd	27	52.10	1.7				iS	35	35.20				
			S	28	28.40					S	32	44.10		IPM	46.61	224	iPd	29	24.50	-1.6			
SKR	18.66	57	Pc	25	28.60	-1.3	PPR	34.74	202	ePd	27	53.00	1.6		0.9s	484.00nm				6.0mb			
			eS	28	37.50			1.0s	758.00nm			6.3mb					i	30	47.50	422kmX			
YAK	19.19	358	Pc	25	33.60	-1.2	CGP	34.77	191	ePc	27	49.70	-1.8				i	31	07.10				
			iS	28	39.80			1.0s	2170.00nm			6.7mb					i	33	47.80				
ANP	19.38	207	Pc	25	41.00	4.1X	PPH	35.17	189	ePd	27	55.00	0.1	ARU	46.73	313	Pd	29	26.50	-0.1			
			S	28	48.00			0.7s	215.00nm			5.9mb					epP	31	08.00	550km			
XAN	19.54	251	iPd	25	38.20	-0.1	SEM	35.21	300	Pd	27	54.30	-0.6				esP	32	05.50				
			SP	28	00.50					ipP	29	30.70	535km				iS	35	35.50				
			iS	28	46.00					isP	30	30.20		PSH	46.84	280	eP	29	28.00	0.2			
			ScS	35	58.00					eS	32	46.80					eS	35	40.00				
TATO	19.58	207	iP	25	41.10	2.4	DAV	35.99	190	P	28	04.00	2.3	SAM	47.35	289	Pd	29	30.80	-0.8			
IRK	20.35	307	Pd	25	46.00	0.3				eS	33	04.00					iS	35	45.00				
			esP	28	06.00		ILT	36.28	29	Pd	28	03.00	-0.5	KLM	47.57	222	ePc	29	34.90	1.5			
			eS	29	00.00					esP	30	41.00		KGM	47.72	219	ePd	29	35.00	0.5			
ZAK	20.53	301	Pd	25	47.60	0.3				eS	33	03.00			1.0s	27.70nm				4.7mb X			
			S	29	02.00					esS	35	52.00					e	31	16.30	544km			
TCU	20.62	208	P	25	51.40	3.1X	CHG	36.31	239	iPd	28	01.60	-2.7				e	33	55.00				
			S	29	08.50			1.2s	330.00nm			5.8mb		KDC	48.25	44	iPc	29	38.00	-0.1			
QZH	20.70	214	iPd	25	48.50	-0.5				i	33	11.20		KAAO	48.27	282	iPd	29	37.10	-1.8			
			iS	29	03.00					eS	36	28.00					i	31	20.50	558kmX			
PET	20.85	51	Pc	25	50.00	-0.2	CHTO	36.31	239	iPd	28	04.30	0.0	COL	48.51	34	iPc	29	40.90	0.9			
			sP	28	12.00		SHIO	36.46	255	iPd	28	05.20	-0.4				e	31	23.00	547km			
			eS	29	04.00		BDT	37.45	237	iPd	28	14.50	0.9				r	36	03.00				
MGD	20.97	28	Pc	25	51.00	-0.2		0.6s	372.00nm			6.2mb					e	39	06.00				
			iS	29	10.00		PRZ	38.32	288	Pc	28	21 40	0.7	FBA	48.51	34	iPc	29	40.50	0.5			
LZH	22.15	261	iPd	26	03.00	0.6				iS	33	36.60		KVG	48.56	154	eP	29	42.00	1.1			
			SP	28	29.00		TLG	38.77	290	Pd	28	25.40	1.1	PMR	48.80	39	iPc	29	41.80	-0.3			
			S	29	29.00					sP	31	08.00			1.5s	570.00nm				5.9mb			
			iScS	36	11.00					iS	33	45.00					e	34	00.00				
MOY	22.21	304	Pd	26	02.40	-0.1				esS	36	40.00		TSI	48.80	226	ePc	29	44.50	1.8			
SEY	23.56	24	Pc	26	15.40	0.8	KKM	39.02	204	iPd	28	28.90	2 4		0.9s	404.00nm				5.9mb			
			sP	28	43.90			0.9s	411.00nm			6.0mb		BSI	48.92	231	ePd	29	42.00	-1.6			
			iS	29	51.90					e	33	20.40		MKS	49.05	196	iPc	29	44.50	0.0			
GZH	24.70	223	iPd	26	24.60	-0.6	NRN	40.36	287	eP	28	37.00	-0.5	PSI	49.29	225	iPd	29	45.50	-0.8			

27d 17h

	1.0s	366.00nm		5.9mb					iS	38 06.80			KER	63.71	293	iPd	31 23.30	-2.2
MDG	49.68	161	P	29 50.50	1.4	HNR	58.28	146	ePc	30 51.00	1 1					i	31 25.00	6kmX
RAB	50.54	153	Pc	29 50.00	-5.4X		0.9s	151.00nm			5.3mb					i	31 37.40	
HYB	51.17	257	ePd-	29 59.00	-1.2				eS	32 40.00			ISQ	63.73	171	Pd	31 25.20	-0.2
			e	30 16.50		KNA	58.38	183	Pd	30 49.80	-0.6		ANN	63.84	308	Pd	31 24.00	-1.9
			e	30 54.00		BAK	58.53	298	eP	30 50.00	-1.4					ipP	33 17.00	559kmX
			ePcP	31 02.00					S	38 14.00						iS	39 15.00	
			e	31 28.50		OBN	58.60	318	iPd-	30 50.30	-1.3		UPP	64.11	329	P	31 25.70	-1.7
			epP	31 44.00	557kmX		1.0s	670.00nm			5.9mb					i	31 28.60	9kmX
			ePP	32 01.00					ePP	33 05.00						iS	39 19.00	
			esP	32 45.00					eSP	33 40.00						iScS	40 21.00	
			eScP	34 08.00					ePPP	34 40.00			CTA	64.16	164	P	31 28.20	0.1
			esPP	34 44.00					iS	38 11.00						i	32 11.00	
			eS	36 35.00					iScS	39 40.00						ipP	33 22.00	563kmX
			eScS	38 48.00					eSS	41 24.00			CTAO	64.16	164	iP	31 28.10	0.0
			esS	39 40.00					eSS	42 12.00						i	32 11.50	185kmX
			eSS	40 28.00					i	43 24.00			MBL	64.58	192	Pd	31 30.10	-0.6
PPI	51.27	221	eP	30 00.70	-0.1				iSSS	45 38.00			APO	65.00	331	P	31 31.72	-1.3
	1.0s	179.00nm		5.4mb		MAK	58.74	301	Pd	30 50.00	-2.8		SLL	65.26	331	P	31 33.42	-1.3
LAT	51.34	160	eP	30 02.00	0.7				ipP	32 40.20	560kmX		NC3	65.37	333	iPd	31 34.50	-0.8
QUE	52.03	278	iPd	30 05.20	-1.3				iS	38 08.00						e	31 57.90	92kmX
			ePcP	31 04.40		SUF	59.10	329	P	30 53.40	-1.5					e	39 33.00	
			epP	31 49.60	548km	DAG	59.13	352	iPc	30 54.10	-0.9		HFS	65.37	331	P	31 34.00	-1.3
			eS	36 49.20			0.5s	225.00nm			5.8mb			0.5s	231.00nm			6.0mb
			eScS	38 55.00					i	31 15.00	82kmX					e	13 00.00	
TRT	53.12	203	iPc	30 13.30	-0.8				i	31 35.00			NB2	65.60	332	P	31 35.80	-1.0
	1.1s	150.00nm		5.2mb					iS	38 19.00			SIM	65.63	309	Pd	31 35.60	-1.6
KUPT	53.23	189	eP	30 14.00	-0.9	SHE	59.22	299	Pd	30 55.00	-1.0					epP	33 28.00	549km
	0.5s	300.00nm		5.9mb					iS	38 23.00						iS	39 37.30	
			e(S)	36 55.00		GRO	59.66	303	Pd	30 57.00	-1.8		TBY	65.72	331	P	31 35.93	-1.5
PCA	53.39	39	iPc	30 16.20	0.4				iS	38 24.00			ASP	66.27	177	Pd	31 41.00	-0.2
LMG	53.80	159	eP	30 19.00	-0.1	TEH	60.03	292	ePd	31 01.00	-0.6					e	33 35.00	558kmX
POO	53.84	262	iPd	30 18.50	-0.9	LNK	60.11	297	Pd	31 00.50	-1.4		NAU	66.69	196	Pc	31 43.90	0.1
PMG	54.02	160	eP	30 21.00	0.5				eS	38 27.00			KVT	66.83	305	P	31 43.90	-0.8
APA	54.05	332	Pd	30 18.30	-1.9	UME	60.62	332	P	31 03.10	-1.8		KON	67.16	332	eP	31 46.00	-0.3
			isP	33 02.00					iS	38 37.00			KIS	67.26	314	Pc	31 45.50	-1.6
			iS	37 09.50		KRV	60.69	300	eP	31 04.00	-1.8					ipP	33 38.00	545km
ASH	54.12	291	P	30 21.00	-0.1				S	38 38.00						iS	39 55.00	
			S	37 20.00		PYA	60.90	304	Pd	31 05.00	-2.1		IAS	67.84	314	eP	31 49.00	-1.6
MHI	54.16	289	Pd-	30 20.80	-0.7				ipP	32 57.00	563kmX					eS	40 04.00	
			i	34 23.10					iS	38 40.00			LVV	67.94	318	Pd	31 50.70	-0.5
			iS	37 15.80		NUR	60.97	327	iPd	31 06.00	-1.2					iS	40 05.00	
VAN	54.29	291	ePd	30 21.00	-1.3		0.7s	302.00nm			5.8mb		KAS	68.02	306	P-	31 51.50	-0.4
			pP	32 07.20	551km	Z	20s	0.80um			4.9Msz		MCW	68.04	43	iP	31 53.10	1.2
			S	37 18.20					i	31 32.00	105kmX		GDH	68.14	2	iPc	31 50.60	-1.4
GBA	54.52	255	Pc	30 23.20	-0.8				iPcP	31 43.40				0.9s	192.00nm			5.6mb
	0.6s	368.00nm		5.9mb					iPP	33 29.00						iPcP	32 20.00	192kmX
ALE	54.69	2	eP	30 24.00	-0.5				iS	38 39.00						i	32 36.00	
	0.6s	327.00nm		5.8mb					iScS	39 56.00						iS	40 07.00	
KAT	54.92	293	Pd	30 26.50	-0.1				eSS	41 44.00						isS	43 27.00	
			epP	32 14.00	558kmX				e	42 44.00						i	44 39.00	
			esP	33 15.00					eSSS	46 48.00						iSSS	48 07.00	
			iS	37 28.00		MTA	61.09	301	Pd	31 07.20	-1.1		BIR	68.40	314	eP	31 55.00	1.0
			esS	40 40.00					ipP	32 57.00	548km					eS	40 12.50	
KEV	55.07	336	Pd	30 26.00	-1.3				iS	38 40.00			BAC	68.59	314	eP	31 52.00	-3.2X
			i	30 27.90		GRS	61.32	299	Pd	31 08.60	-1.5					eS	40 10.00	
			i	30 38.40					ipP	32 59.00	551km		GMW	68.80	44	iP	31 57.90	1.4
			epP	32 14.00	561kmX				iS	38 47.60			WBN	68.81	185	Pc	31 57.40	0.8
			isP	33 12.20		STE	61.74	301	Pd	31 11.60	-1.1		COP	69.02	328	iP	31 57.00	-0.5
			iScP	34 25.00					ipP	33 01.60	547km			0.9s	538.00nm			6.1mb
			iS	37 26.00					iS	38 51.60						iS	40 19.00	
			iScS	39 13.50		BKR	61.88	302	Pd	31 13.20	-0.4					iScS	41 03.00	
			esS	40 40.00					ipP	33 04.20	553km		VRI	69.13	314	eP	31 57.00	-1.5
			eSS	41 12.00					iS	38 56.20			AKU	69.19	347	eP	32 02.90	4.5X
MTN	55.45	180	Pc	30 29.70	-0.7	AKH	62.08	302	Pc	31 15.00	0.0		MGN	69.23	307	P	31 59.30	0.1
TGI	56.11	286	iPd	30 34.50	-0.8	NAK	62.09	299	Pc	31 16.30	1.5		BFW	69.27	45	iP	32 00.50	1.2
SOD	56.40	333	Pd	30 35.60	-1.0				S	38 54.30			UZH	69.58	318	ePc	31 59.00	-2.0
			iPcP	31 26.60		ERE	62.12	300	Pd	31 15.00	-0.1					iS	40 23.00	
			isP	33 21.90					ipP	33 05.00	545km		KRA	69.75	320	iPd	32 01.30	-0.7
			iScP	34 31.00					iS	38 59.00				1.0s	460.00nm			6.0mb
SIT	57.06	41	iPc	30 42.60	1.4	TAB	62.12	297	iPd-	31 15.00	-0.2			Z 15s	2.00um			5.5MszX
TRO	57.50	337	iP	30 42.70	-1.3	LEN	62.20	301	P	31 16.00	0.2			N 15s	1.70um			
KJF	57.70	330	Pd	30 44.50	-1.0				iS	39 00.00				E 15s	1.20um			
			i	30 46.30		ABS	62.29	302	Pd	31 16.00	-0.1					i	32 03.30	6kmX
			ipP	32 32.00	545km				ipP	33 07.00	551km					i	32 08.70	
			isP	33 31.90					eS	39 00.00						i	32 13.80	
			iScP	34 37.00		ZUG	62.45	304	eP	31 17.00	-0.1					iS	40 24.00	
			eS	38 00.00					iS	39 02 00						e	43 46.00	
			eScS	39 32.00		YKA	62.56	29	P	31 18.20	0.7		MLR	69.79	314	Pd	32 02.50	-0.1
			esS	41 08.00		WRA	62.57	177	Pd	31 17.20	-0.7		SHW	69.97	45	iP	32 04.80	1.2
			e	41 52.00			0.9s	78.10nm			5.1mb					ePP	33 59.00	
MOS	57.80	318	Pd	30 44.00	-2.3	WB2	62.57	177	Pd	31 17 10	-0.8					e	40 36.70	
			ipP	32 32.00	548km				e	33 10.70	568kmX		NIE	70.00	320	iPd	32 03.00	-0.6
			isP	33 31.00					eS	39 09 80				0.9s	336.00nm			5.9mb
			iS	38 00.00		SOC	63.16	305	Pd	31 20 10	-1.5		KOU	70.08	147	iPc	32 05.00	0.8
KIR	58.12	335	P	30 47.00	-1.3				epP	33 11.10	548km		MEK	70.13	192	Pd	32 04.00	-0.4
			i	30 48.70	6kmX				eS	39 08.00			MDB	70.19	315	eP	32 08.00	3.3X

27d 17h

SPC	70.20	319	P	32	04.40	-0.5				ipP	34	07.30	502kmX				iS	41	21.00				
CJR	70.21	316	eP	32	05.00	0.1				i	34	21.00					e	44	40.00				
CMP	70.42	314	ePd	32	06.00	-0.1				isP	35	07.00		BHG	74.68	322	iPd	32	30.80	0.5			
COR	70.47	47	iPc	32	08.00	1.7	VIE	72.69	321	Pd	32	20.00	0.9	AMM	74.68	41	iPc	32	31.80	1.2			
JOS	70.53	319	iPd	32	05.80	-0.8				i	32	22.00	6kmX				i	34	27.50	546km			
	1.4s		90.00nm			5.1mb				i	33	33.00					e	35	19.00				
KSP	70.87	323	eP	32	07.50	-1.1				PP	35	11.00		TNS	74.70	326	eP	32	29.90	-0.6			
			i	32	08.50	3kmX				SP	41	24.00					e	34	24.10	537km			
			iPP	34	56.60					e	07	00.00		EKA	74.78	335	Pd	32	31.10	0.4			
			eS	40	38.00		SOP	73.00	320	Pd	32	21.00	0.1		1.0s		230.00nm			5.6mb			
ISK	70.96	309	P	32	08.00	-1.2				epP	34	21.00	577kmX	ESK	74.81	335	iP	32	31.00	0.1			
BRL	71.00	325	eP	32	10.50	1.3	MOX	73.06	325	iP	32	21.50	0.3	ORV	74.84	50	iPc	32	32.00	0.6			
IST	71.00	309	P	32	08.00	-1.5				i	32	24.00	8kmX	BUT	74.92	40	iPc	32	33.40	1.5			
BRN	71.08	325	ePc	32	10.50	0.8				S	41	00.00					e	34	28.00	538km			
NEW	71.14	41	iPc	32	11.10	0.9				SKS	41	35.00		STK	75.00	171	Pc	32	33.40	1.4			
			ePP	34	03.70					sS	44	30.00					e	34	31.00	557kmX			
			e	59	52.00					SS	46	00.00		FUR	75.06	323	iPd	32	33.10	0.6			
DMK	71.20	310	P	32	09.80	-0.9				e	06	48.00					i	32	35.70	8kmX			
PSZ	71.24	319	P	32	10.50	-0.4				e	08	18.00					eS	41	25.00				
REY	71.24	348	eP	32	12.10	1.7	BEO	73.11	316	P	32	20.90	-0.6	LRM	75.12	40	iPc	32	34.50	1.4			
CTT	71.26	309	P	32	07.00	-4.0X	HOF	73.19	324	eP	32	21.90	-0.1				i	34	29.50	540km			
YKM	71.39	40	eP	32	13.00	1.2				i	32	24.60	9kmX				e	35	26.20				
BKT	71.51	308	P	32	07.00	-5.7X	VTS	73.20	313	Pd	32	22.20	0.1	KLB	75.13	192	eP	32	33.00	0.2			
ALT	71.65	306	P-	32	12.50	-0.9	KHC	73.32	323	iPd	32	22.90	0.1	LJU	75.15	320	eP	32	32.50	-0.4			
RXF	71.67	40	iPc	32	14.30	0.9		1.3s		326.00nm			5.7mb				epP	34	28.50	547km			
PVL	71.76	312	Pd	32	14.00	0.2	N	13s		0.80um							eS	41	24.50				
LDM	71.86	40	iPc	32	15.30	0.8	E	14s		0.80um				ENN	75.30	328	eP	32	33.50	-0.1			
BRG	71.89	324	iPd	32	14.20	-0.3				i	32	25.20	7kmX				e	32	36.00	8kmX			
			i	32	17.00					PP	34	18.00					e	34	30.00				
			PcP	32	31.00					S	41	06.00					e	35	25.00				
			pP	34	09.00	547km	WIT	73.41	329	eP	32	24.00	0.9	MEM	75.39	327	P	32	33.50	-0.6			
			PP	35	04.00					e	32	26.00	6kmX				pP	34	29.60	546km			
			S	40	51.00		WDC	73.56	50	iPc	32	25.50	1.3	HPK	75.44	333	P	32	34.70	0.4			
			ScS	41	26.00		WET	73.62	323	iPd	32	23.70	-0.7	STU	75.50	325	ePd	32	34.00	-0.8			
			sS	44	14.00			1.4s		355.00nm			5.7mb		1.0s		50.00nm			4.9mb			
			SS	45	36.00		MSO	73.68	40	iPc	32	25.60	0.7	COO	75.52	162	eP	32	37.00	2.0			
			P'P'	59	54.00			1.2s		671.00nm			6.0mb				e	34	37.00	570kmX			
BUD	71.97	319	Pc	32	14.80	-0.2	EDU	73.72	336	eP	32	24.60	-0.2	OHR	75.52	313	iP	32	34.40	-0.7			
			ePcP	32	37.00			0.7s		226.00nm			5.8mb				i	35	34.20				
			epP	34	10.00	549km				i	35	16.60					iS	41	28.40				
			ePP	37	46.00		IZM	73.75	307	P	32	24.30	-1.1	BKS	75.58	52	iPc	32	36.90	1.5			
CLL	71.98	324	iPd	32	14.50	-0.4	KLG	73.85	189	Pd	32	25.50	-0.2				pP	34	32.00	540km			
			i	32	17.00		KMR	73.86	322	iPd	32	26.00	0.2	MUN	75.76	193	eP	32	36.00	-0.2			
			pP	34	09.00	545km				i	33	11.00	187kmX	TRI	75.76	320	iP	32	34.70	-1.6			
			PP	35	08.00					i	35	15.00					e	34	32.30	555kmX			
			e	37	32.00					e	41	38.00					e	35	34.00				
			S	40	50.00		RMT	73.94	50	iP	32	28.20	1.9				e	41	39.90				
			SKS	41	16.00		GRF	73.94	324	ePd	32	26.70	0.5				e	44	46.00				
			ScS	41	26.00			0.9s		114.00nm			5.4mb				e	50	00.00				
			sSS	48	31.00			Z 20s		0.50um			4.8Msz	TIR	75.85	314	P	32	33.70	-3.2X			
			SSS	49	07.00					iPP	32	29.40		UCC	75.88	328	Pd	32	37.80	1.0			
			e	52	32.00					eS	41	17.00					i	32	39.10	4kmX			
			e	57	03.00					e	41	46.00					PcP	32	48.30				
			P'P'	59	58.00		MOA	73.95	321	ePd	32	32.00	5.7X	BUH	75.99	325	eP	32	37.40	-0.2			
SRO	72.08	319	iP	32	14.80	-0.8		1.4s		447.00nm			5.8mb	WCN	75.99	49	iP	32	39.40	1.5			
			e	33	11.00					i	32	34.70	9kmX	GWF	76.01	326	P-	32	37.60	0.0			
			pP	34	07.00	531kmX				PP	34	27.70		OGA	76.15	322	iPd	32	38.40	-0.3			
			ı	34	56.00					eS	41	28.30			1.7s		454.00nm			5.6mb			
			S	40	54.00		WTS	73.99	328	iPc	32	26.30	0.0	MHC	76.28	52	iPc	32	40.80	1.3			
TIM	72.08	316	eP	32	15.00	-0.7		0.8s		245.00nm			5.8mb				pP	34	37.00	545km			
			ePP	35	08.40					e	32	28.50	7kmX				sP	35	48.00				
			iS	40	56.40					e	34	22.00		ARN	76.34	52	iP	32	41.90	2.2			
EDC	72.11	309	P	32	14.70	-1.3				e	35	18.00					ePP	34	35.80				
VWMM	72.18	47	iP	32	18.10	1.5	ELO	73.99	336	eP	32	26.40	0.0	DOU	76.35	328	P	32	39.30	-0.1			
PRA	72.26	323	iP	32	17.00	0.4		0.9s		264.00nm			5.8mb				i	32	41.40				
PRU	72.27	323	iPd	32	16.30	-0.4				i	35	18.40					pP	34	35.90	547km			
	1.5s		324.00nm			5.6mb	EBH	74.12	336	iPc	32	27.20	0.1				S	41	39.00				
	Z 12s		1.50um			5.5MszX		0.8s		167.00nm			5.6mb				sS	45	09.00				
	N 14s		0.80um							i	35	18.20		CTI	76.49	321	P-	32	39.00	-1.4			
	E 14s		0.50um				MIN	74.24	49	iPc	32	29.20	1.0				i	34	36.00	549km			
			i	32	18.40	7kmX				pP	34	24.00	541km				e	41	36.00				
			PP	34	15.50		EDI	74.30	335	eP	32	27.80	-0.2	NWAO	76.52	192	eP	32	41.00	0.6			
			iPP	35	07.30			0.6s		45.00nm			5.1mb	JAS	76.55	51	iPc	32	42.30	1.5			
			iS	40	54.00					e	35	20.20					pP	34	38.00	541km			
			SS	44	19.00		EBL	74.38	335	ePc	32	28.80	0.3				sP	35	50.00				
DIM	72.27	311	eP	32	17.00	0.2		0.9s		229.00nm			5.7mb				P'P'	02	10.00				
BCK	72.40	305	P	32	16.10	-1.7				i	35	21.00		BMN	76.58	47	iPc	32	43.00	1.9			
SSR	72.42	315	eP	32	17.00	-0.6	VAY	74.42	312	iP	32	28.00	-1.0				ePP	34	38.90				
NOU	72.52	146	iPc	32	20.00	1.7				i	32	30.40	8kmX				e	37	23.50				
FRB	72.57	9	iPc	32	18.00	-0.1	EAB	74.42	336	iPc	32	28.90	0.2				e	02	09.50				
	0.5s		446.00nm			6.3mb		0.9s		341.00nm			5.8mb	CDF	76.59	325	iPd	32	40.90	0.0			
FHC	72.60	50	iPc	32	20.70	1.9				i	35	21.20					PP	34	37.80				
			pP	34	15.00	542km	EAU	74.44	335	iPc	32	29.00	0.1	ECH	76.79	325	P-	32	41.80	-0.1			
KDZ	72.67	311	Pd	32	19.00	-0.1		0.6s		188.00nm			5.8mb	SAO	76.80	52	iPc	32	43.20	1.1			
BRS	72.68	160	Pd	32	19.90	0.7				i	35	21.40					pP	34	39.00	541km			
			i	32	34.50		SKO	74.58	313	iPd	32	30.00	0.1	ZUL	76.84	324	P	32	41.00	-1.2			
			ePP	32	47.00					i	32	31.80	6kmX	AFI	76.87	123	P	32	43.00	0.2			

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			pP	34	45.00	579kmX	ROB	79.55	322	P	32	55.00	-1.6				ePP	35	41.70										
HLW	76.94	299	iPd	32	41.00	-2.0	GLR	79.56	48	iP	32	58.30	1.4	PTO	88.86	331	P	33	44.00	1.7								
			iS	41	42.00					ePP	34	54.20					eS	43	19.00										
DMU	77.15	336	iPc	32	43.90	0.2	GRR	79.81	330	iPd	32	57.60	-0.2				eSKS	43	40.00										
	0.9s	370.00nm			5.8mb		VAL	79.84	337	iPd	32	59.90	2.0	OTT	88.89	19	iPc	33	42.10	-0.3								
BAF	77.16	325	P-	32	43.90	-0.1	PYR	79.90	52	iP	33	00.20	1.5		0.9s	183.00nm			6.0mb										
BBS	77.23	325	P	32	43.00	-1.3				ePP	34	55.60		MNT	89.26	17	iPc	33	44.60	0.5									
BSF	77.25	325	iPd	32	44.20	-0.3	LPF	80.18	330	iPd	32	59.90	0.2		1.4s	410.00nm			6.2mb										
IMW	77.26	41	iP	32	47.10	2.2	MZF	80.27	327	iPd	33	00.70	0.4	HNME	89.71	13	eP	33	46.60	0.4									
HAU	77.30	326	iPd	32	44.30	-0.4	WAM	80.32	166	Pc	33	02.70	2.3	LUB	89.72	42	eP	33	48.00	1.5									
	0.9s	103.00nm			5.3mb					ePcP	35	04.60		JKM	89.80	15	eP	33	46.60	0.0									
SAL	77.34	322	P	32	44.00	-0.8	TCF	80.36	327	iPd	33	01.10	0.3	QZO	89.87	39	iPc	33	48.00	0.9									
			i	34	50.00	602kmX	CVF	80.44	321	iPd	33	00.90	-0.3		1.5s	505.00nm			6.2mb										
DDK	77.42	336	eP	32	45.00	-0.1		0.8s	91.30nm			5.3mb					ePP	35	47.00										
	1.0s	310.00nm			5.7mb		OBO	80.47	277	iPd	33	03.00	1.3				e	36	43.50										
MNV	77.49	49	iPc	32	47.60	1.5	PAS	80.53	52	P+	33	03.00	1.2	PNY	89.91	17	iP	33	47.30	0.2									
			pP	34	43.00	538km	LSF	80.67	327	eP	33	02.50	0.2	KRP	89.93	146	iPc	33	50.00	3.1X									
DKM	77.51	335	iPc	32	45.60	-0.1	FRF	80.67	323	iPd	33	01.90	-0.5				pP	35	51.00	548km									
	0.7s	240.00nm			5.7mb		TDD	80.87	278	iPd	33	05.10	1.3				(SKS)	43	27.00										
DLE	77.57	336	iPc	32	46.00	0.1	ATA	80.88	277	iPd	33	05.10	1.2	DVT	90.08	16	eP	33	48.50	0.6									
	0.8s	320.00nm			5.8mb		LRG	80.88	323	eP	33	03.30	-0.1	CRT	90.34	326	iPc	33	51.40	2.1									
FRI	77.64	51	iPc	32	47.90	1.3	LMR	80.91	323	iPd	33	03.30	-0.3				iS	43	25.50										
			pP	34	44.00	541km	MFF	81.03	328	iPd	33	04.40	0.2	IN1	90.44	27	iPc	33	50.50	1.0									
			sP	35	59.00					PP	35	03.00		SIO	90.53	37	iP	33	51.90	1.8									
PRI	77.68	52	iPc	32	49.10	2.1	ARO	81.10	277	iPd	33	06.80	1.7				ePP	35	52.70										
			pP	34	45.00	540km				i	35	04.00	541km	WTZ	90.58	146	eP	33	50.00	0.1									
			sP	36	00.00		TOO	81.11	169	eP	33	06.00	1.5	TUL	90.62	36	iPc+	33	51.90	1.4									
DCN	77.74	336	iPc	32	47.20	0.3				e	35	07.00	563kmX		1.0s	476.00nm			6.4mb										
	0.7s	370.00nm			5.9mb		DAF	81.28	278	iPd	33	07.30	1.4		Z 20s		0.95um			5.2Msz									
ADE	77.77	174	Pd	32	48.70	1.5	SGH	81.31	277	iPd	33	07.80	1.6		N 20s		0.66um												
NEC	77.83	325	P	32	46.50	-1.0	KSU	81.40	278	iPd	33	07.90	1.3		E 20s		0.30um												
EUR	77.93	47	iP	32	50.00	1.5	MEI	81.40	314	P	33	06.00	-0.2				ePP	35	53.00										
PCN	78.15	322	P	32	50.50	1.3	RJF	81.45	327	eP	33	06.80	0.5	BNH	90.63	16	iP	33	51.50	1.1									
BEI	78.17	43	iP	32	51.10	1.4	CAF	81.53	326	iPd	33	07.60	0.8	AN12	90.66	26	iPc	33	51.70	1.1									
TNP	78.26	49	iP	32	52.00	1.8				PP	35	06.10		IN2	90.67	28	iPc	33	51.80	1.2									
DIX	78.36	324	P	32	50.00	-0.6	NUE	81.97	125	P	33	12.00	2.8	RLO	90.74	36	iPc	33	52.30	1.2									
PRG	78.36	319	P	32	53.00	2.6	LFF	82.06	327	eP	33	10.30	0.9				ePP	35	51.90										
			iS	41	59.00		ERC	82.09	316	P	33	10.00	0.3	AN9	90.75	26	iPc	33	52.10	1.1									
YOU	78.37	166	Pc	32	52.20	1.9	LPO	82.09	327	iPd	33	10.40	0.8	AN11	90.82	27	ePc	33	52.30	0.9									
			epP	33	26.20	136kmX	GCA	82.11	46	eP	33	10.60	0.6	AN7	90.85	26	iPc	33	52.50	1.0									
			ePP	33	48.20					ePP	35	09.80		GBO	90.93	36	iPc	33	40.20	-11.8X									
			ePcP	35	51.30		RMU	82.36	46	iP	33	12.30	1.0				ePP	35	53.10										
PRT	78.39	320	P	32	50.00	-0.5				ePP	35	10.80		FVM	91.05	32	iPc	33	53.50	1.0									
			ipP	33	18.50	111kmX				e	02	10.70					ePP	35	53.60										
			iS	42	02.50		GOL	83.15	40	iPc	33	16.80	1.5				e	37	09.30										
			iSS	44	08.00					ePP	35	14.60					e	37	38.30										
FIR	78.39	320	Pc	32	50.50	0.0				eSP	36	11.30					e	43	30.30										
			S	42	00.00					e	36	38.50		AN3	91.12	26	iPc	33	53.70	1.0									
DUI	78.42	317	P-	32	51.20	0.5				e	02	11.70		AN8	91.24	26	iPc	33	54.30	1.0									
			e	34	48.00	544km	GLD	83.18	40	iP	33	17.60	2.2	IVT	91.27	17	eP	33	54.40	1.0									
			e	36	01.00			1.0s	838.00nm			6.2mb		AN4	91.39	26	iPc	33	55.00	1.0									
			eS	42	10.00					ePP	35	15.20		GNZ	91.57	145	iP	33	58.00	3.5X									
AQU	78.43	318	P	32	51.50	0.7	GLA	83.24	51	iP	33	17.40	1.8	COB	91.58	150	iP	33	55.00	0.5									
			i	34	49.00	548km				ePP	35	14.60					pP	35	55.00	540km									
			e	42	40.50		MLS	83.55	326	eP	33	17.50	0.5	IN3	91.62	28	iPc	33	56.00	1.0									
ECB	78.44	335	eP	32	50.80	0.2				i	33	19.70	7kmX	IN4	91.64	27	iPc	33	55.90	0.8									
	1.0s	45.00nm			4.9mb					eS	42	50.00		DON	91.95	32	iP	33	58.00	1.4									
ECP	78.47	335	eP	32	50.00	-0.7	EPF	83.80	326	iPd	33	19.10	0.9	MNG	92.22	148	iPc	33	57.60	0.2									
	0.8s	25.00nm			4.7mb X					PP	35	17.70					pP	36	58.00										
BVT	78.54	321	P	32	50.50	-0.7	MBZ	84.11	316	eP	33	28.00	8.2X	LNX	92.35	18	eP	33	59.80	1.4									
MNS	78.76	318	P-	32	52.20	-0.2	KCHT	84.14	317	eP	33	20.00	0.0	MSZ	93.11	155	iP	34	08.90	7.5X									
			ePP	35	46.00		ZGN	84.63	316	eP	33	22.00	-0.4				pP	36	13.00	564kmX									
			e	42	08.00		LGR	85.42	328	iPc	33	29.30	3.2X	BCT	93.13	18	eP	34	02.20	0.3									
BDW	78.77	41	iPc	32	53.80	1.0				iS	43	01.00		JCT	93.26	42	iPc	34	04.00	1.2									
			ePP	34	49.30		EBR	85.57	325	eP	33	29.00	2.2				e	36	04.00	540km									
			eSP	35	45.60					e	43	01.00					iS	43	46.00										
			e	37	35.60					eS	43	11.00		RHP	93.30	153	iP	34	04.80	2.4									
			e	42	10.00		TUC	86.06	49	iPc	33	31.10	1.7				pP	36	09.00	564kmX									
			e	02	19.30					ePP	35	29.80		IFR	94.13	325	iP	34	08.50	1.6									
CSI	78.87	315	P	32	53.80	0.7				e	37	04.60					i	36	08.00	537km									
ROI	78.88	314	P	32	54.40	1.2	ALQ	86.34	44	ePc	33	32.50	1.6				i	37	54.00										
LOR	78.90	327	iPd	32	53.00	-0.2		1.5s	375.00nm			5.9mb		ORT	95.14	28	eP	34	12.10	0.9									
			PP	34	50.50					ePP	35	31.00		BLA	95.24	25	iP	34	11.90	0.2									
DUG	79.08	45	iP	32	56.00	1.6	TAU	86.61	168	eP	33	35.00	3.6X				ePP	36	09.40										
LBF	79.08	326	eP	32	53.80	-0.3				e	35	33.00	536km				e	37	30.30										
RMP	79.18	318	P+	32	55.50	0.8				e	35	38.00		AVE	95.27	326	iP	34	12.00	0.2									
			ePP	35	51.00		TOL	88.23	327	iPd	33	42.00	2.5				i	38	25.00										
			iS	42	12.00			1.2s	8.00nm			4.4mb X		TKL	95.55	28	iP	34	13.60	0.5									
SSF	79.21	327	iPd	32	54.80	0.1				i(PP)	34	21.00	538km	PRM	97.47	28	iP	34	22.20	0.4									
PNI	79.31	323	P	32	54.50	-0.8				i	35	41.00					ePP	36	24.80										
FLN	79.36	330	iPd	32	55.20	-0.3				iSKS	43	17.00					e	38	18.30										
SSC	79.37	330	iPd	32	55.00	-0.5				iS	43	36.00		AVY	98.04	252	ePc	34	22.00	-2.7									
SMF	79.41	326	iPd	32	55.60	-0.2				i(PS)	47	13.00		BNG	103.34	289	ePdiff	34	49.00	0.7									
AVF	79.49	327	iPd	32	56.20	0.0				eSS	49	40.00			0.9s	6.90nm			5.4mb										
CAN	79.50	165	Pc	32	58.20	2.0				eSSS	52	50.00		KRI	109.70	265	ePdiff	35	26.00	9.5X									
			ePP	33	39.20		ACO	88.47	38	iPc	33	42.50	1.9	KRI	109.70	265	ePKP	39	17.00	0.9									
			iPcP	35	59.40			1.8s	3440.00nm			6.9mb X					iPP	39	50.00										

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			iPKKP	50	35.00					e	14	41.40			TCA	50.42	229	ePc	18	49.80	-0.8
CIR	110.92	260	ePdiff	35	30.00	8.3X				e	14	46.80			RJF	50.50	21	iPc	18	51.30	0.4
CIR	110.92	260	ePKP	39	20.00	1.8				eS	18	21.00				1.0s	56.60nm			5.5mb	
			ePP	40	03.00		TEN	29.74	10	iPd	16	00.00	0.7		CDR	50.85	26	Pc	18	54.00	0.5
			iPKKP	50	30.00					ePP	17	10.00			LMR	50.90	27	iPc	18	54.30	0.4
LPS	112.11	43	ePKP	38	55.00	-25.6X				iS	21	09.00				0.8s	70.40nm			5.6mb	
BUL	112.53	263	ePdiff	35	32.00	3.0X	RDJ	30.10	222	iPc	16	06.00	3.3X		LRG	50.93	26	iPc	18	54.70	0.6
BUL	112.53	263	ePKP	39	23.00	1.6	AVE	36.69	20	iP	17	00.00	0.5			1.0s	80.00nm			5.6mb	
			iPP	40	14.00					i	18	16.00			GIB	50.95	37	P	18	57.00	2.5
			iPKKP	50	23.00		IFR	37.73	23	iPc	17	10.50	1.9					e	19	55.00	
KDS	115.47	320	ePKP	39	26.00	-1.0				i	17	27.50			MFF	51.06	19	iPc	18	55.40	0.4
SLR	116.20	258	iPKPc	39	27.80	-0.5	FDA5	37.93	226	P	17	12.90	2.7			0.8s	81.80nm			5.7mb	
	0.7s	37.00nm								e	17	19.80			MEI	51.11	38	P	18	56.00	0.5
			i	42	11.40					e	17	21.40			FRF	51.14	26	iPc	18	56.00	0.3
KIC	116.80	309	ePKP	39	28.70	-0.9				e	17	25.90				1.0s	31.00nm			5.2mb	
KSR	117.28	259	ePKP	39	30.40	0.0	SFS	39.97	20	iP	17	31.00	4.1X		ARE	51.23	250	eP	18	55.00	-2.2
	0.5s	16.90nm								i	18	11.00						eS	26	20.00	
			S	59	01.70					iPP	19	13.00			LSF	51.32	21	iPc	18	57.50	0.4
MAW	121.49	205	ePKP	39	39.00	2.1				i	20	10.00				1.0s	114.00nm			5.8mb	
SBA	122.40	172	iPKP	39	39.40	1.0				iS	23	32.00			TCF	51.60	21	iPc	18	59.70	0.5
			i	39	42.00					iSS	26	35.00				0.8s	37.20nm			5.4mb	
WIN	122.46	268	ePKP	39	41.50	1.1				iSSS	29	10.00			SSB	51.64	24	iPc	19	00.00	0.5
TOV	124.18	25	ePKP	39	43.30	-0.5	BNG	40.74	82	iPc	17	34.70	1.0		MZF	51.67	22	iPc	19	00.40	0.7
CAR	124.34	22	ePKPc	39	49.00	4.8X		0.9s	138.00nm				5.7mb			1.0s	80.40nm			5.6mb	
	0.7s	63.00nm					MAL	40.84	22	iPc	17	34.50	0.4		STV	51.98	26	P	19	02.70	0.5
SDV	124.75	27	ePKPc	39	45.50	0.4		0.8s	6.50nm				4.4mb X		LPF	52.04	18	iPc	19	02.50	0.0
	0.5s	115.00nm					LIS	41.17	15	P	17	39.00	2.2			1.0s	40.00nm			5.3mb	
TRN	125.49	15	iPKPc	39	45.70	-0.6				ePP	19	15.00			ANT	52.17	240	Pc	19	03.50	-0.3
	0.8s	72.00nm								eS	23	54.00						iS	26	28.00	
CHN	126.52	34	ePKP	39	48.50	0.0				eSS	26	24.00			ROB	52.27	27	P	19	04.50	0.2
CER	126.95	256	ePKP	39	48.10	-0.5				LR	29	00.00			BOCO	52.41	276	eP	19	05.50	-0.8
	0.6s	61.30nm					CRT	41.55	22	iPc	17	41.50	1.4		GRR	52.42	18	eP	19	05.00	-0.3
			e	42	15.10		ALM	41.70	24	iPd	17	42.30	1.1			1.0s	71.20nm			5.6mb	
BOG	127.45	32	ePKP	39	51.00	0.5		2.0s	2.20nm				3.5mb X		BOG	52.43	277	iP	19	06.00	-0.4
			ePP	42	00.50			N 16s	5.60um						AVF	52.44	22	iPc	19	06.10	0.6
BOCO	127.49	32	ePKP	39	49.50	-1.1		E 11s	22.50um							1.0s	62.00nm			5.5mb	
			e	41	58.00					i	19	26.30			SMF	52.50	22	iPc	19	06.60	0.6
PSO	129.16	38	iPKP	39	54.50	0.7				iPP	20	27.10				1.0s	51.20nm			5.4mb	
SPA	132.68	180	ePKPd	39	54.00	-4.6X				iPPP	22	37.20			PNI	52.51	26	P	19	05.80	-0.3
	1.0s	150.00nm								i	27	19.10			SSF	52.73	22	iPc	19	08.10	0.4
			e	42	34.00					iS	30	40.10			RMP	52.80	32	P+	19	09.00	0.7
NVL	139.40	206	PKPd	40	03.00	-7.8X	FDF	41.86	293	eP	17	44.70	1.9					iPP	21	26.00	
NNA	140.76	47	iPKPd	40	09.30	-5.7X	GUV	42.01	283	iPd	17	45.20	1.1					iS	26	44.00	
	0.8s	97.80nm					PRL	42.22	17	P	17	44.60	-0.9					iPS	26	52.00	
			eS	42	57.00		BBL	42.41	294	eP	17	48.00	0.7		SSC	52.82	18	eP	19	08.20	-0.1
HUA	141.60	45	PKP	40	14.00	-3.0X	COI	42.76	15	P	17	51.30	1.5		LBF	52.84	22	iPc	19	08.90	0.4
			eP	40	44.00		PAG	42.76	295	eP	17	50.00	-0.3			1.0s	111.00nm			5.7mb	
			eP	43	04.00		MTE	43.18	16	P+	17	55.10	1.7		FLN	52.86	18	iPc	19	08.40	-0.2
PT02	141.77	47	iPKPd	40	12.30	-4.4X	CUM	43.57	286	iPd	17	56.50	-0.3			1.0s	41.80nm			5.3mb	
			eS	40	42.80		PTO	43.59	15	P+	18	07.60	11.1X		BUL	52.89	115	P-	19	10.00	0.5
PT03	142.98	47	iPKPc	40	16.60	-2.2	TOL	43.78	20	Pc	17	51.50	-6.7X		LOR	53.03	22	iPc	19	10.20	0.3
SNA	144.05	205	ePKP	40	18.00	-0.9				iPP	19	56.00				1.0s	97.60nm			5.7mb	
SOB3	146.38	347	e(PKP)	40	25.00	0.5	ALI	43.79	24	iPd	18	09.00	10.8X		KRI	53.06	110	P-	19	11.00	0.2
			e	40	26.50		CAR	46.23	285	iPc	18	18.30	0.0		KSR	53.07	122	iPd	19	09.40	-1.4
ARE	147.29	43	iPKPd	40	27.50	1.3		0.8s	98.50nm				5.9mb			0.9s	84.00nm			5.7mb	
			e	42	37.00		EBR	46.29	24	eP	18	19.00	0.9		MNS	53.20	32	P+	19	11.00	-0.2
ZOBO	148.74	38	PKP	40	29.20	0.4				eS	25	11 00			EMS	53.26	25	Pc	19	11.50	-0.3
LPB	148.98	38	PKPc	40	30.20	1.2				(PS)	25	17 00			CFA	53.32	230	ePc	19	11.50	-0.9
			i	40	35.10		LGR	46.61	20	iPc	18	23.00	2.3		CSI	53.46	36	P	19	13.80	0.6
ANT	153.80	50	PKP	40	37.30	2.1				iPcP	19	43.00			PRT	53.47	29	P	19	18.00	4.9X
			i	40	45.20		SJG	47.48	296	iP	18	27.50	-0.5					ipP	19	42.00	98kmX
RDJ	159.55	345	PKP	40	40.00	-2.3				e	25	26.00						iPP	21	35.00	
CYA	160.08	49	PKPc	40	43.00	0.2	ZGN	47.57	35	iP	18	28.70	0.3					eS	27	28.50	
			S	41	28.00		LPA	47.65	221	Pc	18	34.00	5.0X		DIX	53.47	25	Pc	19	13.50	0.0
VAO	160.12	355	PKP	40	45.40	2.4				PP	20	33.00			FIR	53.47	30	P	19	13.00	-0.1
			e	41	28.50					S	25	16.00						PP	21	18.00	
PEL	160.22	68	PKP	40	43.00	0.2	BAA	47.82	222	Pc	18	32.60	2.2					S	26	46.00	
			i	41	28.90					S	25	27.40			ROI	53.50	37	P	19	13.20	-0.3
			i	42	30.50		ZOBO	48.03	249	P	18	32.00	-1.0		AQU	53.56	32	P+	19	14.50	0.6
CFA	160.88	60	PKPc	40	43.10	-0.4	LPB	48.07	249	Pc	18	33.50	0.4		PRG	53.56	31	P-	19	14.00	0.2
TCA	162.94	53	PKPc	40	45.80	0.2				S	25	34.00						iPP	21	00.00	
FDA5	163.17	8	PKP	40	47.70	1.7				e	34	10.00			VAL	53.60	9	ePd	19	32.00	18.1X
			e	40	51.00		EPF	48.12	22	iPc	18	34.00	1.4					S	26	49.00	
			e	41	41.60		MLS	48.34	23	iPc	18	35.60	1.3					SS	30	30.00	
	S.D. = 1.2	on 572 of 611 obs.					TOV	48.87	284	iPc	18	40.00	1.1					LQ	31	56.00	
								0.9s	100.00nm				5.9mb		DUI	53.65	33	P	19	14.50	0.0
	JAN 03, 1982	14h 09m 50.55± 0.09s					SDV	49.54	282	iPd	18	44.70	0.5		BLF	53.65	126	iPd	19	15.10	0.1
	0.945 S ± 2.2km	21.877 W ± 1.8km						0.7s	57.10nm				5.7mb		PCN	53.67	27	P	19	16.50	2.0
	DEPTH = 10.0km	(geophysicist)					LPO	49.85	21	iPc	18	46.70	0.8					iS	27	00.00	
	5.8mb (64 obs.)	6.5Msz (12 obs.)						1.1s	150.00nm				5.9mb		MMK	53.68	25	Pc	19	15.00	0.0
	CENTRAL MID-ATLANTIC RIDGE				(406)		LFF	49.91	21	iPc	18	47.40	1.1		CEN	53.71	231	eP	19	15.00	-0.3
								1.1s	118.00nm				5.8mb		CHN	54.00	277	eP	19	17.00	-0.7
MBO	16.00	18	P	13	32.40	-5.0X	UAV	50.00	282	eP	18	48.90	1.1		NEC	54.02	24	P	19	16.50	-0.7
			iS	14	38.30			1.0s	274.00nm				6.2mb		FOG	54.12	34	P	19	29.50	11.6X
KDS	16.50	35	iP	13	41.70	-2.1	TUH	50.16	134	iPd	18	46.00	-2.4		HUA	54.13	256	eP	19	20.00	1.0
KIC	18.58	67	iP	14	09.50	-0.3	LGN	50.37	284	eP	18	52.00	1.7		SLR	54.21	121	iPd	19	19.40	0.3
SOB3	21.18	245	eP	14	38.40	-0.3	CAF	50.38	22	iPc	18	50.50	0.5			0.9s	242.00nm			6.2mb	

03d 14h

SAL	54.48	28	P+	19	19.50	-1.1		1.0s	75.00nm	5.7mb	BUD	59.96	31	Pc	19	57.80	-1.6
HAU	54.59	23	iPc	19	21.40	0.0		Z 18s	21.40um	6.3Msz				ipP	20	05.00	24kmX
	0.8s	192.00nm			6.2mb				e	19 54.70				i	21	26.00	
BBS	54.61	24	P	19	21.00	-0.6	GRG	57.89	39 P	19 43.60 -1.6				i	24	08.00	
BSF	54.62	23	iPc	19	21.50	-0.2	KMR	57.96	28 iPc	20 44.30 58.8X	TIM	60.02	34	Pc	20	00.00	0.2
	0.8s	130.00nm			6.0mb		WTS	58.03	20 iPc	19 46.20 0.3	KDZ	60.13	39	eP	20	00.00	-0.6
BAF	54.70	23	iPc	19	21.80	-0.5		1.0s	159.00nm	6.0mb	DIM	60.49	39	eP	20	02.00	-1.1
TLL	54.75	233	P	19	22.20	-1.0	THE	58.07	39 P	19 46.00 -0.3	BRN	60.78	24	iPc	20	05.80	1.0
LLS	54.77	26	P	19	21.80	-1.1	ESK	58.13	12 eP	19 50.00 3.5X	PVL	60.83	38	Pc	20	05.00	-0.3
PT03	54.86	254	eP	19	10.90	-13.0X	EKA	58.15	12 P	19 55.00 8.3X	BRL	60.85	24	eP	20	06.00	0.7
RFA	54.90	227	ePc	19	19.60	-4.4X		1.2s	70.60nm	5.6mb	ELL	60.85	46	iPc	20	06.00	0.2
MTD	54.90	110	P-	19	23.00	-1.3	WET	58.19	26 iPc	19 45.70 -1.4	KSP	60.94	27	iP	20	05.00	-1.0
ZUL	54.99	25	Pc	19	23.50	-0.9		1.4s	207.00nm	6.0mb		1.1s	65.00nm				5.7mb
ECH	55.07	23	P+	19	24.40	-0.6	VAY	58.21	38 eP	19 47.00 -0.3	DEV	61.05	34	ePc	20	07.00	0.2
			ePcP	20	35.00		SOH	58.42	39 P	19 49.00 0.1	EDC	61.10	42	eP	20	04.00	-3.3X
			ePP	21	26.00		KHC	58.49	27 iPc	19 48.50 -0.8	AAE	61.21	79	eP	20	09.50	0.7
			iS	27	05.00			1.0s	48.00nm	5.5mb	DST	61.26	43	iPc	20	07.80	-0.6
CDF	55.28	23	iPc	19	26.30	-0.2	Z	12s	14.40um	6.3MszX	JOS	61.39	31	Pc	20	08.80	-0.3
	0.8s	92.60nm			5.9mb		N	13s	12.40um					isP	20	25.00	
STJ	55.31	335	eP	19	31.00	4.4X	E	12s	8.50um					iPcP	21	06.00	
PT02	55.33	255	iPd	19	25.20	-2.1			e	19 58.60				iPP	22	44.00	
CTI	55.34	28	P+	19	26.40	-0.6			S	27 58.00	SPC	61.69	30	iP	20	11.20	-0.2
PT06	55.35	254	eP	19	26.40	-1.0	OUR	58.55	40 P	19 50.00 0.3				e(S)	28	27.00	
PSO	55.49	272	iP	19	28.50	-0.5	HOF	58.64	25 iPc	19 49.50 -0.8	CTT	61.87	41	eP	20	10.90	-1.6
STR	55.61	23	P	19	24.00	-4.8X			eS	28 04.00	NIE	61.88	30	iPc	20	12.40	-0.1
GRM	55.65	131	eP	19	29.00	-0.4	WIT	58.66	20 eP	19 48.50 -1.8		0.9s	64.00nm				5.8mb
	1.3s	539.00nm			6.4mb			1.0s	85.00nm	5.8mb				i	20	22.50	
OGA	55.66	27	iPc	19	28.70	-0.7	NAI	58.67	91 eP	20 00.80 9.5X	CMP	61.92	36	eP	20	16.00	3.2X
	1.5s	214.00nm			6.0mb			2.0s	294.00nm	6.0mb	WES	61.92	320	eP	20	11.70	-1.1
DOU	55.67	20	Pc	19	28.40	-0.8	SRS	58.73	39 P	19 51.00 0.0		1.0s	650.00nm				6.8mb X
			S	27	22.00		MOX	58.79	24 iP	19 50.70 -0.5	HNME	61.96	325	eP	20	11.30	-1.7
CIR	55.80	115	P-	19	30.00	-0.6			i	20 02.00		0.8s	28.50nm				5.5mb
LM2	55.82	256	eP	20	29.00	58.3X			e	23 32.00	ALT	62.02	44	iPc	20	13.40	-0.3
PEL	55.85	230	P+	19	30.30	-0.5			S	28 05.00	BUC	62.08	37	iPc	20	11.00	-2.8
BUH	55.87	24	eP	19	30.00	-0.7			SS	32 12.00	KRA	62.11	29	iPc	20	13.30	-0.6
WLF	55.87	22	ePc	19	39.00	8.4X			LQ	34 25.00		0.9s	84.00nm				5.9mb
			S	27	26.00				e	44 42.00				i	20	23.30	
SAN	55.96	229	P	19	32.00	0.4			e	47 24.00				ePS	22	49.00	
TRI	56.10	29	iPc	19	32.40	0.1	SOP	58.86	29 Pc	19 51.60 -0.2				eS	28	35.00	
			e(PPP)	22	44.00				ipP	19 56.00 14kmX	IST	62.19	42	ePc	20	14.00	-0.6
			i(S)	27	22.00				isP	20 06.00				ePP	24	12.00	
			e	33	12.00				iPcP	20 41.00				eS	28	42.00	
			i(SSS)	34	06.00		BEO	59.03	34 P	19 53.20 0.2	MD3	62.23	319	eP	20	13.40	-1.5
			i	45	12.00		CON	59.15	227 P	19 53.40 -0.6	ISK	62.24	42	eP	20	24.00	9.0X
GAP	56.14	26	eP	19	31.90	-0.7	VIE	59.15	29 P	20 00.00 6.2X	UZH	62.39	31	Pc	20	14.50	-1.3
UCC	56.19	20	Pc+	19	32.50	-0.3			pP	20 17.00 64kmX				isP	20	20.00	
			e	20	48.40				i	21 12.00	BMR	62.44	33	eP	20	16.00	-0.2
			S	27	23.00				PPP	22 02.00	MLR	62.57	36	Pc	20	17.00	-0.3
STU	56.34	24	ePc	19	33.00	-1.0			S	27 58.00	COP	62.98	21	ePc	20	23.00	3.4X
	1 0s	48.00nm			5.5mb				PS	28 21.00				iPP	22	50.00	
	Z 20s	21.30um			6.2Msz				ScS	29 42.00				iPPP	24	27.00	
TIR	56.57	37	P	19	36.50	0.7			SS	31 55.00				iS	28	55.00	
MEM	56.60	21	eP	19	35.00	-0.8			SSS	34 40.00				iSSS	35	42.00	
ENN	56.70	21	iPc	19	36.80	0.2			e	55 14.00	VRI	63.24	36	eP	20	22.00	0.5
	1.1s	186.00nm			6.0mb		HLW	59.21	54 eP	19 54.00 -0.5	GPD	63.32	318	eP	20	21.60	-0.5
LJU	56.72	30	iPc	19	36.90	0.1	ZST	59.48	29 iP	19 55.50 -0.5				e	20	27.30	
FUR	56.75	26	iPc	19	36.50	-0.5			sP	20 11.00	LVV	64.01	31	Pc	20	26.60	0.1
	1.2s	304.00nm			6.2mb				i	20 28.00	WAR	64.06	28	eP	20	36.00	9.3X
			eS	27	34.00		PRU	59.55	26 Pc	19 55.50 -1.0				e	26	48.00	
TTG	56.87	36	P	19	38.30	0.4		2.0s	148.00nm	5.8mb				eS	29	00.00	
			S	27	35.50			Z 13s	20.80um	6.5MszX				e	29	12.00	
OHR	56.99	38	iP	19	38.40	-0.5		N 13s	29.50um		PNY	64.56	322	eP	20	29.60	-0.5
			i	19	50.50			E 14s	20.50um					e	20	35.80	
			i	20	06.80				i	20 06.40	BER	64.69	15	eP	20	36.00	5.3X
ATH	57.12	42	ePc	19	40.00	0.2			iS	28 03.00	REY	64.93	360	eP	20	39.90	7.8X
			iS	27	40.00		PRA	59.56	26 iPc	19 55.00 -1.6	MNT	64.93	322	eP	20	32.00	-0.5
BHG	57.14	27	iPc	19	38.70	-1.1			e	20 02.00	RSNY	65.02	321	eP	20	32.00	-1.2
	0.9s	137.00nm			6.0mb				S	28 14.00				e	20	39.00	
TNS	57.19	23	iPc	19	39.70	-0.5	SSR	59.79	35 P	19 58.10 -0.2	KIS	65.10	36	Pc	20	31.50	-2.1
SAR	57.31	34	P	19	41.20	0.1	SRO	59.82	30 eP	19 58.00 -0.4	KON	65.23	17	i(P)	20	40.90	6.6X
			S	27	16.70				S	28 10.00	INY	65.31	318	eP	20	35.00	-0.1
BNS	57.31	21	eP	19	41.10	0.2			e	52 00.00				S	29	24.00	
			iS	27	44.80		CLL	59.86	25 iPc	19 57.80 -0.8	ARO	65.47	77	eP	20	36.50	-0.1
LIT	57 47	40	P	19	41.20	-1.0			i	20 09.00	KAS	65.55	43	iPd	20	36.00	-0.7
DBN	57.56	19	eP	19	50.00	7.4X			i	20 29.00				i	20	45.50	
	Z 20s	36.00um			6.5Msz				i	21 16.00	JSC	65.64	309	eP	20	37.50	0.2
			iS	27	44.00				PP	22 18.00	BLA	66.00	312	ePd	20	44.80	5.1X
			eSS	31	47.00				e	22 36.00				eS	29	24.80	
			eSSS	33	40.00				S	28 19.00	OTT	66.17	322	eP	20	40.00	-0.5
SKO	57.89	37	iPc	19	45.00	-0.1			e	30 15.00		1.1s	109.00nm				6.0mb
	1.3s	190.00nm			6.0mb				P'P'	49 44.00	PRM	66.44	308	eP	20	41.90	-0.6
			e	19	56.50		YER	59.86	45 iP	19 57.50 -1.5				e	20	48.10	
			i	20	11.50		BRG	59.93	25 iPc	19 58.60 -0.6	AKU	66.54	2	eP	20	44.50	2.1
			iPPP	23	18.50				i	20 09.00		1.3s	231.00nm				6.2mb
			iS	27	51.00				e	22 43.00		Z 18s	26.10um				6.5Msz
GRFO	57.89	25	eP	19	44.10	-0.9			S	28 22.00				i	20	50.20	
GRF	57.89	25	iPc	19	44.50	-0.5			P'P'	49 40.00	TBY	66.55	18	P	20	42.17	-0.5

03d 14h

MRG	66.55	314	iP	20	48.60	5.5X	RLO	77.00	307	iPd	21	45.00	-0.6	MNA	95.51	308	eP	23	16.90	-0.6
NB2	66.83	17	P	20	44.60	0.0	TEH	77.01	53	eP	21	47.00	1.2	POO	95.73	72	eP	23	34.50	15.8X
	1.1s	35.40nm			5.5mb		GBO	77.07	307	ePd	21	44.90	-1.1	PAS	95.74	304	eP	23	16.00	-2.5
HFS	66.87	18	P	20	44.20	-0.5	IIT	77.49	290	iP	21	57.70	8.8X				ePP	27	12.00	
	1.0s	27.50nm			5.4mb		TUL	77.57	307	iPd	21	48.30	-0.4				ePPP	29	24.00	
			e	42	00.00			Z 22s		23.20um			6.5Msz				eSKS	34	00.00	
KVT	67.00	44	iP	20	45.30	-0.7				i	21	54.40					eS	35	00.00	
SLL	67.02	18	P	20	45.30	-0.4	DAG	77.64	1	iPc	21	48.60	0.4				ePS	35	48.00	
APO	67.26	18	P	20	46.41	-0.8		0.8s	18.00nm			5.2mb					eSS	41	12.00	
SIM	67.32	40	eP	20	49.00	1.1				iPP	24	45.00					eSSS	45	00.00	
			eS	29	39.00					iS	31	45.00		NRN	96.54	49	eP	23	22.00	-0.3
UPP	67.96	20	Pc	20	50.90	-0.7				iSSS	40	02.00		FRI	96.83	307	iP	23	30.80	7.5X
			iS	29	54.00		KEV	77.67	16	eP	21	48.00	-0.6	TLG	97.40	47	eP	23	32.00	6.2X
MNK	68.19	29	Pc	20	56.00	2.9		1.1s	55.20nm			5.6mb		PRI	97.66	306	iP	23	35.80	8.6X
			eS	30	00.00					i	21	59.70		NRI	97.83	20	Pd	23	39.00	11.9X
ORT	68.52	309	iP	20	55.30	-0.3				ePPP	26	20.00		ORV	98.03	310	iPc	23	36.70	8.1X
ANN	69.35	41	Pc	20	59.00	-1.4				eS	31	44.00		MIN	98.03	310	iP	23	36.80	8.0X
			eS	29	55.00					eSS	36	40.00		PRZ	98.22	47	eP	23	45.00	15.3X
UTO	69.86	315	ePc	21	04.00	0.4	IIP	78.09	290	iP	21	54.00	1.7	MHC	98.34	307	iP	23	38.40	8.1X
AN10	70.09	314	eP	21	04.60	-0.5	IIM	78.34	290	iP	21	53.00	-0.6	PGC	98.35	319	eP	23	36.50	6.6X
AAM	70.14	316	iP	21	05.50	0.2	TAC	78.36	290	iP	22	02.00	8.3X	NDI	98.43	61	eP	23	44.70	14.0X
AVY	70.42	110	iPd	21	09.70	1.9	IIC	78.45	290	iP	21	55.50	1.2		Z 18s		13.80um			6.5Msz
SNA	70.45	173	e(P)	21	14.00	7.3X	III	78.53	289	iP	21	57.00	2.5				ePP	27	52.00	
SOC	70.46	43	eP	21	06.00	-1.3	JCT	80.08	301	iP	22	02.20	-0.4				eSKS	35	12.00	
			eS	30	18.00			Z 18s		22.70um			6.6Msz				eSS	41	50.00	
IN3	70.67	312	eP	21	08.30	-0.3	KAT	81.41	50	Pc	22	10.50	1.2	SEM	98.45	39	eP	23	30.00	-0.3
			i	21	14.40		FCC	81.65	330	iPc	22	10.10	0.0	WDC	98.72	311	iP	23	38.60	6.9X
BHD	70.84	54	Pc	21	15.00	5.2X		1.5s	612.00nm			6.4mb		BKS	98.76	308	eP	23	35.00	3.0X
			e	21	30.00		KBS	81.68	6	eP	22	13.00	3.0X				e	23	50.00	
			ePP	24	00.00		LUB	82.18	304	eP	22	14.00	0.4				e	28	28.00	
			eSKP	24	41.00		VAN	82.67	52	eP	22	16.00	0.1				e	30	24.00	
			ePPP	26	47.00		TGI	83.02	57	e(P)	22	17.00	-1.1				e	32	04.00	
			eSKKS	30	25.00		MHI	83.60	53	Pc	22	21.40	0.5				eSKS	34	18.00	
			ePS	34	17.00					e	22	30.00					eS	35	20.00	
NUR	70.97	22	Pc	21	09.80	-0.2				iS	32	26.20					e	36	36.00	
			i	21	18.00		FFC	85.05	325	eP	22	27.00	-0.6				e	37	10.00	
			e	22	16.00			1.2s	2.00nm			4.2mb	X				iSS	41	20.00	
			ePP	23	48.00		ALE	85.19	355	eP	22	29.00	1.1				ePP	17	20.00	
			ePPP	25	40.00			1.5s	110.00nm			5.9mb		INK	98.76	340	eP	23	34.00	2.7X
			eS	30	27.00		GLD	85.47	310	eP	22	32.00	1.7	MIR	98.82	158	eP	23	30.00	-1.6
			eSS	34	28.00			Z 21s		26.80um			6.6Msz	RMT	98.89	310	eP	23	31.60	-0.8
AIA	70.99	197	e(P)	21	10.00	-0.1	ARU	85.51	33	Pc	22	31.30	1.5	GBA	99.27	76	P	23	48.00	13.4X
UME	71.68	18	Pc	21	14.20	0.0	ANMO	86.09	305	eP	22	34.00	0.5	NVS	99.47	34	P	23	35.10	0.3
			iS	30	46.00		ALQ	86.09	305	eP	22	34.10	0.6	HYB	100.24	73	ePdiff	23	49.00	9.8X
LEN	72.45	47	Pc	21	20.00	0.5		1.5s	392.00nm			6.4mb					ePP	28	08.00	
			eS	30	40.00			Z 22s		44.40um			6.8Msz				eSKS	34	36.00	
BKR	72.50	46	Pc	21	19.00	-0.8	RES	86.46	345	ePc	22	34.90	0.6				eS	35	20.00	
GRT	72.60	308	e(P)	21	19.00	-1.3		1.3s	153.00nm			6.0mb					eSS	42	24.00	
ELC	72.71	310	eP	21	19.60	-1.3	SVE	86.68	33	Pc	22	36.30	0.7	UKR	101.17	38	ePdiff	23	55.00	12.5X
ERE	72.76	47	eP	21	22.00	0.7	MAW	87.12	158	eP	22	41.00	3.4X	FBA	105.37	339	Pdiff	24	08.50	7.6X
			eS	30	38.00		BDW	88.94	313	eP	22	47.00	-0.2	IMA	106.67	341	(Pdiff	24	16.00	9.1X
CHI	72.81	315	P	21	21.00	-0.4	SPA	89.06	180	iPc	22	50.00	2.9	PMR	107.69	336	(Pdiff	24	25.50	14.2X
PYA	72.89	43	Pc	21	22.30	0.4		0.9s	16.80nm			5.3mb			Z 18s		28.00um			6.9Msz
			S	30	46.40		KHE	89.28	9	eP	22	50.00	2.2	ILT	111.28	351	ePKP	28	31.00	5.2X
SUF	72.93	21	Pc	21	21.70	0.0	SAM	89.72	51	Pc	22	51.80	1.1	SHL	111.77	63	iPdiff	24	48.50	17.9X
NVL	73.08	169	Pc	21	26.00	3 6X				iS	33	41.00		IRK	112.07	32	ePdiff	24	49.00	17.9X
			iS	31	09.00		SES	90.19	320	ePc	22	53.60	1.0	YAK	115.42	14	ePKP	28	41.00	7.0X
DON	73.23	309	eP	21	23.20	-0.7		1.3s	111.00nm			6.0mb		SEY	118.05	3	ePKP	28	51.00	12.0X
GDH	73.26	349	iPd	21	23.50	0.0	LRM	91.07	316	ePc	22	58.00	1.0	TUP	118.18	24	ePKP	28	47.00	7.6X
	0.8s	15.00nm			5.1mb		DSH	91.09	52	Pc	22	59.20	2.1	CHG	119.38	69	ePKP	28	44.00	1.2
			iS	30	55.00		KAAO	91.29	56	e(P)	23	00.10	1.9	PSI	120.81	87	ePKPd	28	54.50	8.8X
KER	73.29	54	eP	21	25.00	0.4	KBL	91.29	56	iPc	22	57.70	-0.5	KMI	121.45	61	ePKP	28	57.00	10.1X
OBN	73.35	31	eP	21	22.00	-2.2	AMM	91.42	316	eP	23	04.50	5.9X		N 20s		6.30um			
			isP	21	24.00		TAS	91.50	49	ePc	23	00.00	1.2				PP	31	24.00	
			iS	30	47.00		EDM	91.64	323	ePc	22	58.20	-1.0				S	37	41.50	
MTA	73.41	46	P	21	25.00	0.1		1.3s	328.00nm			6.5mb		PCT	122.36	73	ePKP	28	50.70	2.2
TAB	73.56	50	eP	21	26.00	-0.1	KUL	91.86	52	eP	23	03.00	2.4	BJI	125.55	39	ePKP	29	04.00	9.9X
FVM	73 81	310	ePd	21	26.10	-1.2	YKA	92.10	332	P	23	01.30	0.3		Z 17s		10.30um			6.6MszX
GRS	73.93	48	Pc	21	27.60	-0.6	GAR	92.30	51	ePc	23	04.00	1.3		E 17s		6.50um			
			isP	21	33.60		MBC	92.70	346	eP	23	05.00	1.4				eSKS	38	32.00	
MOS	74.13	30	eP	21	16.00	-12.7X		1.1s	119.00nm			6.2mb					eS	39	56.00	
KRV	74.23	47	eP	21	29.00	-0.7	GLA	92.99	303	e(P)	23	11.00	5.1X	MUN	128.59	133	ePKP	29	07.00	6.8X
KJF	74.40	20	P	21	30.80	0.6				i	23	15.00		HKC	132.28	60	ePKP	30	00.00	52.6X
			i	21	43.50		KHO	93.28	53	eP	23	03.00	-4.3X	MEK	133.05	129	ePKP	29	03.00	-5.9X
			eS	31	04.00		EUR	93.76	309	iP	23	17.00	7.5X	RAR	133.34	239	ePKP	29	28.00	18.6X
GRO	74.50	44	Pc	21	32.00	0.8		0.6s	8.33nm			5.3mb					PP	31	48.00	
			iS	31	04.00		ANR	93.83	49	eP	23	15.00	5.5X				e	32	23.00	
KIR	74.61	15	Pc	21	31.50	0.1				eS	34	04.40					PKS	32	59.00	
			iS	31	23.00		GLR	93.87	307	e(P)	23	17 40	7.4X				e	49	40.00	
MAK	75.64	45	eP	21	38.00	0.2	NEW	94.20	318	eP	23	15.00	3.9X				SS	50	10.00	
LHC	75.88	321	iPd	21	41.40	2.4		Z 20s		40.00um			6.9Msz				PS	58	15.00	
	1.1s	175.00nm			6.1mb			N 20s		12.00um							LQ	05	16.00	
SHE	75.92	48	eP	21	36.00	-3.4X		E 20s		30.00um							LR	16	00.00	
			iS	31	23.00		BMN	94.68	310	eP	23	13.30	-0.4	SSE	133.95	46	ePKP	29	24.00	13.7X
SOD	76.04	17	Pc	21	40.30	0.7		1.0s	27 00nm			5.6mb			N 16s		6.33um			
			i	21	45.10					e	23	22.20			E 16s		3.70um			
SHI	76.94	59	eP	21	45.00	-0.6	FRU	95.41	47	eP	23	16.00	-0.8				ePP	33	14.00	

03d 14h

		iPPS	46 07.00			
WEL	135.33	198 PKP	30 03.00	50.3X		
		PP	31 51.00			
		SS	50 03.00			
ANP	137.24	53 PKP	30 11.00	54.1X		
SHK	138.99	33 ePKP	29 26.20	6.4X		
PPR	139.85	76 ePKP	29 37.50	15.7X		
ADE	139.92	155 PKP	29 26.20	4.7X		
BAG	139.95	65 PKP	29 27.00	4.8X		
		e	32 18.00			
MAT	140.07	25 ePKP	29 10.00	-11.7X		
	Z 22s	11.10um		6.6Msz		
DDR	140.95	25 ePKP	29 34.80	11.5X		
QCP	140.95	68 PKP	29 10.00	-13.7X		
WAM	142.06	168 PKP	29 33.50	8.3X		
CAN	142.93	168 PKP	29 32.10	5.3X		
		i	29 38.00			
YOU	143.79	166 PKP	29 27.50	-0.8		
		i	29 34.00			
STK	143.79	156 ePKP	29 26.00	-2.3		
		e	29 39.00			
KUPT	143.93	109 ePKP	29 29.40	0.4		
CCP	144.74	73 ePKP	29 35.70	5.4X		
CNP	144.90	69 ePKP	29 39.60	9.0X		
PLP	145.56	72 ePKP	29 39.20	7.5X		
CGP	145.88	76 ePKPc	29 32.50	0.2		
ASP	146.03	138 PKPc	29 33.70	1.3		
KNA	146.59	121 ePKP	29 35.00	1.6		
MNI	146.72	89 ePKP	29 35.50	1.8		
AFI	146.73	243 ePKP	29 47.00	13.3X		
		PP	33 40.00			
		PPP	36 33.00			
		SKKS	45 14.00			
		SS	52 16.00			
		SSS	57 12.00			
		LQ	11 00.00			
		LR	19 00.00			
DAV	146.98	78 PKP	29 43.00	8.9X		
PPH	147.45	77 ePKP	29 38.50	3.7X		
COO	148.10	170 ePKP	29 40.00	4.5X		
WB2	148.79	133 PKP	29 37.20	0.3		
		e	29 40.00			
		i	29 47.00			
		iPP	31 15.00			
MTN	149.92	118 ePKP	29 40.00	1.4		
BRS	151.36	170 PKPc	29 59.80	19.2X		
		iPKP	30 00.80			
		i	30 32.90			
		e	33 38.90			
SVA	152.45	226 ePKP	30 03.00	20.7X		
VUN	152.52	226 ePKP	30 01.80	19.4X		
NOU	155.50	199 PKPd	29 49.00	2.6X		
CTA	156.08	152 PKP	29 45.30	-2.0		
KOU	157.79	195 PKPc	30 09.60	20.2X		
PVC	158.90	208 PKPc	30 29.80	39.1X		
GUMO	161.83	46 e(PKP)	30 10.00	16.2X		
GUA	161.90	46 e(PKP)	30 14.00	20.1X		
TZZ	162.03	110 e(PKP)	30 12.00	17.8X		
PMG	165.00	134 ePKP	30 02.00	5.1X		
LMG	166.05	135 e(PKP)	30 15.00	17.0X		
LAT	166.58	124 ePKP	30 10.00	11.8X		
ESA	167.13	146 PKP	30 15.50	16.9X		
RAB	172.16	131 ePKP	30 08.00	6.6X		
	S.D. = 1.0	on 300 of 414 obs.				

& JAN 09, 1982 12h 53m 51.80s
46.984 N 66.656 W
DEPTH = 10.0km (geophysicist)
5.8mb (57 obs.) 5.4Msz (2 obs.)
NEW BRUNSWICK (451)
<SPEC>. Slight damage (VI) in ports of New Brunswick and at Bridgewater, Caribou, Easton, Haynesville, Monticello, Presque Isle, Oakfield and Stockholm, Maine. Felt in the Maritime Provinces, parts of Quebec and throughout much of New England

UNB	1.03	179 Pg	54 11.50	0.2		
EBN	1.21	298 Pg	54 14.30	-0.1		
HNME	1.23	229 P*	54 14.60	-0.1		
LMN	1.71	131 Pn	54 21.00	-0.8		
GSQ	1.95	351 Pnc	54 24.50	-0.8		
PQ1	2.13	193 Pn	54 26.40	-1.5		
LPQ	2.32	280 Pnc	54 30.00	-0.5		
EMM	2.32	195 Pn	54 29.00	-1.6		
MIM	2.40	224 Pn	54 30.40	-1.4		
BPM	2.79	213 Pn	54 35.90	-1.3		
HKM	3.13	223 Pn	54 40.60	-1.4		
MNQ	3.82	339 Pnc	54 49.30	-2.6		
GNT	3.98	263 Pnc	54 52.40	-1.8		
DVT	4.34	244 Pn	54 57.40	-2.0		
WNH	4.57	229 Pn	54 59.90	-2.6		
ONH	5.05	225 Pn	55 07.80	-1.5		
MNT	5.06	255 Pnd	55 06.70	-2.7		
HNH	5.15	232 Pn	55 07.80	-2.9		
GLO	5.22	215 Pn	55 08.50	-3.2		
PNY	5.27	248 Pn	55 09.90	-2.6		
MDV	5.47	239 Pn	55 11.60	-3.7		
PNH	5.50	227 Pn	55 13.60	-2.1		
BLVT	5.55	231 Pn	55 13.50	-2.9		
WFM	5.56	220 Pn	55 13.50	-3.1		
WNY	5.67	245 Pn	55 14.70	-3.5		
WES	5.67	218 Pn	55 14.90	-3.2		
IVT	5.69	235 Pn	55 14.80	-3.6		
DUX	5.73	212 Pn	55 15.80	-3.1		
BGR	5.80	251 Pn	55 16.90	-3.0		
RSNY	6.02	249 iPnd	55 19.70	-3.3		
QUA	6.09	224 Pn	55 21.20	-2.7		
GAC	6.24	261 Pn	55 22.50	-3.6		
APH	6.35	243 Pn	55 24.10	-3.6		
OTT	6.49	259 Pn	55 26.00	-3.6		
FHO	6.81	261 Pn	55 31.00	-3.1		
HDM	6.92	220 Pn	55 31.50	-4.2		
ECT	7.06	226 Pn	55 32.00	-5.7		
BCT	7.31	224 Pn	55 34.00	-7.1		
SCH	7.84	359 Pn	55 42.60	-6.0		
GPD	8.20	226 ePd	55 49.50	-4.1		
INY	8.34	241 P	55 53.50	-2.1		
JAQ	8.95	323 P	55 57.50	-6.4		
STJ	9.49	81 P	56 06.30	-5.0		
EFO	9.77	251 P	56 09.20	-6.0		
NA2	12.04	227 P	56 43.50	-2.7		
GHV	12.48	227 P	56 50.00	-2.1		
CVL	12.51	228 P	56 50.80	-1.8		
BV4	12.96	233 P	56 56.50	-2.1		
AAM	12.98	255 eP	56 52.40	-6.4		
BLA	14.11	231 P	57 12.00	-1.9		
NAV	14.24	232 iPc	57 13.10	-2.4		
AN10	14.42	250 eP	57 13.30	-4.5		
PUV	14.46	232 P	57 17.00	-1.5		
LHC	15.28	284 P	57 22.00	-7.1		
			Sn	00 04.00		
IN3	15.93	248 eP	57 31.30	-6.1		
CGTN	16.41	237 P	57 41.90	-1.8		
JSC	16.81	226 eP	57 48.40	-0.3		
FRB	16.83	357 eP	57 39.40	-9.4		
ORT	17.21	236 eP	57 52.00	-1.7		
PRM	17.52	228 eP	57 57.50	-0.1		
ELC	19.28	248 eP	58 16.60	-2.7		
FVM	19.64	251 eP	58 20.70	-2.8		
DON	19.80	249 eP	58 28.00	2.9		
PWLA	20.05	241 P	58 27.40	-0.4		
FCC	20.16	316 P	58 24.00	-4.6		
POW	21.22	248 eP	58 38.20	-1.6		
OLY	21.81	247 P	58 44.50	-1.3		
LGAR	21.85	244 P	58 48.10	1.9		
GDH	23.27	12 iPd	58 59.00	-0.9		
	1.1s	152.00nm		5.5mb		
		iS	03 12.00			
FFC	23.40	302 P	58 59.00	-2.3		
RLO	23.69	253 eP	59 03.30	-1.0		
TUL	24.34	254 iPd-	59 10.10	-0.5		
	1.0s	351.00nm		5.9mb		
Z	18s	15.30um		5.5Msz		
		eS	03 35.50			
PCO	24.68	256 eP	59 13.00	-0.9		
	0.9s	225.00nm		5.8mb		
MRO	25.33	255 eP	59 18.40	-1.7		
	1.0s	332.00nm		6.0mb		
ACO	26.13	259 e(P)	59 26.00	-1.6		
	0.8s	214.00nm		5.9mb		
RSSD	26.17	278 eP	59 27.20	-0.9		
RRO	26.30	256 e(P)	59 30.50	1.3		
	1.0s	126.00nm		5.6mb		
QZO	27.25	256 eP	59 35.40	-2.5		
		i	59 38.20			
		e	59 41.70			
GOL	28.85	270 eP	59 50.00	-2.6		
	0.7s	22.00nm		5.1mb		
JCT	30.37	249 iP	00 04.20	-1.8		
BDW	30.41	278 eP	00 03.70	-2.8		
	0.8s	27.00nm		5.2mb		
IMW	30.91	281 eP	00 09.00	-2.0		
LRM	31.26	285 iPc	00 12.30	-1.6		
BUT	31.27	285 eP	00 12.80	-1.1		
AMM	31.50	286 ePc	00 14.00	-2.0		
AKU	31.67	36 iP	00 14.70	-2.2		
	1.0s	72.00nm		5.5mb		
ALQ	32.04	262 ePc	00 19.50	-1.3		
	0.9s	15.80nm		4.9mb		
		eS	05 37.00			
RXF	32.10	292 iPd	00 19.00	-2.1		
LDM	32.34	291 iPd	00 21.00	-2.1		
YKM	32.48	292 eP	00 23.30	-1.1		
LHD	32.54	291 iP	00 23.30	-1.7		
NEW	33.54	291 P	00 30.00	-3.6		
DUG	33.71	276 iPc	00 33.70	-1.6		
RMU	33.97	269 eP	00 36.10	-1.4		
PNT	34.81	294 P	00 42.50	-2.0		
DAG	35.41	17 iPc	00 47.10	-2.1		
	0.8s	51.00nm		5.4mb		
		iPcP	03 17.00			
ALE	35.67	1 P	00 49.50	-1.9		
EUR	36.19	276 iP	00 54.60	-2.0		
MBC	36.20	341 P	00 54.30	-1.6		
VAL	36.21	61 iPd	00 54.90	-1.3		
BMN	36.60	279 ePc	00 58.80	-1.1		
	1.0s	79.38nm		5.5mb		
		i	01 01.70			
TOV	37.16	185 iPd	01 05.70	1.0		
	1.0s	114.00nm		5.6mb		
GLR	37.36	273 eP	01 05.80	-0.5		
		i	01 09.30			
		ePcP	03 25.80			
DCN	37.59	58 iPc	01 05.40	-2.4		
	0.7s	220.00nm		6.0mb		
LPS	37.63	217 eP	01 09.00	0.4		
	1.2s	180.00nm		5.7mb		
DMU	37.66	57 iPc	01 05.80	-2.6		
	0.7s	170.00nm		5.9mb		
YMT1	37.89	273 eP	01 08.70	-2.0		
IIC	37.98	236 eP	01 11.60	-0.2		
DLE	38.03	58 iPc	01 08.90	-2.6		
	0.7s	250.00nm		6.1mb		
IIT	38.05	234 eP	01 12.30	0.0		
SDV	38.12	186 iPd	01 13.00	0.2		
	0.9s	111.00nm		5.6mb		
DDK	38.12	57 iPc	01 08.30	-4.0		
	0.8s	200.00nm		5.9mb		
IIP	38.12	235 eP	01 17.30	4.3		
MNV	38.19	276 iP	01 12.70	-0.6		
MNA	38.19	276 eP	01 11.50	-1.8		
DKM	38.20	58 iPc	01 10.10	-2.8		
	0.8s	270.00nm		6.0mb		
VWMM	38.34	285 eP	01 13.70	-0.8		
EAB	38.54	53 ePc	01 13.20	-2.6		
	0.8s	220.00nm		5.9mb		
VHO	38.66	230 iP	01 17.00	-0.4		
ELO	38.82	52 iPc	01 15.60	-2.5		
	0.8s	284.00nm		6.0mb		
GLA	38.82	267 eP	01 18.50	0.0		
WCN	38.85	278 eP	01 17.80	-1.0		
EBH	38.98	52 iPc	01 16.80	-2.7		
	0.8s	464.00nm		6.2mb		
EAU	39.11	53 iPc	01 17.80	-2.7		
	0.8s	176.00nm		5.8mb		
EDI	39.23	53 iPc	01 19.70	-1.9		
	0.7s	69.00nm		5.4mb		
EBL	39.35	53 eP	01 20.60	-2.0		
	0.9s	112.00nm		5.5mb		
ESK	39.38	54 eP	01 20.50	-2.3		
	1.0s	160.00nm		5.6mb		
EKA	39.40	54 Pd	01 21.30	-1.7		
	0.8s	79.90nm		5.4mb		
SDW	39.47	270 eP	01 22.70	-1.3		
		ePcP	03 31.40			
MIN	39.60	281 iP	01 23.20	-1.8		
ORV	39.91	280 P	01 25.00	-2.4		
		PcP	03 31.00			
LCR	39.94	207 eP	01 28.90	0.9		
FRI	39.99	275 iP	01 25.70	-2.4		
		PcP	03 35.00			
JAS	39.99	277 iP	01 25.90	-2.2		
WDC	40.11	282 iP	01 25.50	-3.6		
		PcP	03 33.00			
PAS	40.48	271 eP	01 33.00	0.8		
		ePP	03 10.00			
		eS	07 46.00			
		e	14 35.00			

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STS	40.53	74	eP	01	31.00	-1.4	IFR	47.68	83	iPc	02	27.50	-2.9	PRA	51.27	55	iP	02	56.00	-1.5
ARN	41.04	277	eP	01	36.30	-0.5				i	02	32.00		NUR	51.27	39	iP	02	54.90	-2.5
			ePcP	03	37.20		SSB	47.78	64	eP	02	28.50	-2.4		0.7s		57.40nm			5.6mb
PRI	41.09	275	eP	01	38.00	0.7	TNS	47.80	57	iPc	02	28.70	-2.3		Z 28s		1.40um			4.8MszX
MHC	41.12	277	eP	01	35.00	-2.5	GWF	47.89	59	iPc	02	29.60	-2.1				i	02	59.10	
BKS	41.25	278	eP	01	39.00	0.6	BSF	47.93	60	iPc	02	29.80	-2.3				iPcP	04	11.10	
			e	07	50.00		CDF	47.95	60	iPc	02	30.10	-2.1				iPP	04	57.00	
			LQ	15	58.00			0.6s	133.00nm			6.2mb					eS	10	15.00	
			LR	18	42.00		UME	47.96	37	P	02	29.00	-2.9				eSS	12	44.00	
SAO	41.29	276	eP	01	37.00	-1.8	ECH	47.97	60	P+	02	29.60	-2.7	PRU	51.37	55	eP	02	56.30	-2.0
PTO	41.30	76	iPd	01	36.90	-1.8				eS	09	32.00			2.0s	156.00nm				5.6mb
LIS	42.12	80	P	01	44.00	-1.5				eSS	13	00.00			Z 15s		1.80um			5.2MszX
			ePP	03	31.00		BAF	48.05	60	iP	02	30.40	-2.6		N 16s		0.30um			
KBS	42.16	16	iPd	01	45.30	-0.1	KEV	48.08	28	P	02	31.00	-1.8		E 16s		1.10um			
	1.0s	68.00nm			5.3mb					ePP	04	24.00					e	04	12.30	
MTE	42.36	77	P	01	45.00	-2.6				eS	09	28.00					eS	10	13.00	
BOG	42.68	191	iP	01	51.50	0.8	ALI	48.09	75	iPd	02	33.00	-0.3	BVT	51.39	63	P	02	55.90	-2.6
			ePS	08	20.00		BUH	48.39	59	eP	02	33.20	-2.4	CTI	51.71	60	P	02	58.00	-3.1
BOCO	42.72	191	eP	01	51.70	0.6	NEC	48.42	61	P	02	33.00	-2.8	KSP	51.91	53	iPc	02	59.50	-2.9
GRR	43.08	63	iPc	01	51.20	-2.0	UPP	48.42	42	P	02	33.00	-2.6		1.0s	93.00nm				5.7mb
LPF	43.11	63	eP	01	51.30	-2.2				iS	09	42.00		KMR	52.12	57	iPc	03	02.60	-1.4
TEN	43.14	97	iPd	01	53.10	-0.8	BBS	48.53	61	P	02	33.80	-2.9	MBO	52.48	111	P	03	05.50	-1.5
			ePP	02	53.40		EMS	48.86	62	P	02	36.00	-3.4	PRT	52.52	63	P	03	08.00	1.0
			eS	06	50.40		STU	48.91	58	ePc+	02	37.50	-2.0				ipP	03	37.00	123kmX
FLN	43.16	62	iPc	01	52.10	-1.8		1.0s	160.00nm			6.0mb		FIR	52.67	63	P	03	05.00	-3.2
SSC	43.46	62	iPc	01	54.50	-1.8		Z 20s		2.84um		5.3Msz		TRI	53.14	60	eP	03	09.70	-1.9
	1.0s	1620.00nm			6.8mb		SOD	48.94	31	P	02	37.40	-2.0	SET	53.19	74	P	03	10.50	-1.7
MFF	44.27	65	iPc	02	00.70	-2.2				i	03	36.00		VIE	53.29	56	Pc	03	10.00	-2.7
KON	44.72	45	iP	02	04.30	-2.1	SLE	48.97	60	P	02	37.00	-3.1				e	11	05.00	
TOL	44.94	75	Pd	02	07.00	-1.5	ZUL	49.05	60	P	02	37.50	-3.2				e	28	32.00	
NB2	45.03	42	P	02	07.60	-1.4	KHE	49.08	10	ePc	02	40.00	-0.4	LJU	53.41	59	iP	03	11.00	-2.7
	1.5s	31.80nm			5.0mb					esP	02	44.00		SOP	53.70	56	P	03	13.00	-2.7
			pP	03	49.20	559kmX	DIX	49.15	62	P	02	39.50	-2.2				e	03	15.00	
DBN	45.14	56	eP	02	09.00	-0.8	CDR	49.34	66	P	02	40.50	-2.4				sP	03	27.00	
UCC	45.20	58	Pd-	02	09.00	-1.3	TTA	49.34	323	P	02	40.40	-2.3				e	04	08.00	
			e	02	12.00		MOX	49.41	55	iPc	02	41.00	-2.3	WAR	53.71	50	eP	03	16.00	0.3
COL	45.23	324	eP	02	09.00	-1.5		1.5s	173.00nm			5.8mb					ePS	11	16.00	
	0.8s	52.20nm			5.5mb					i	02	42.50		PRG	53.74	63	P+	03	14.50	-1.6
FBA	45.23	324	P	02	09.10	-1.4				i	02	45.50		KRA	54.31	52	eP	03	17.00	-3.1
LSF	45.46	65	iPc	02	10.10	-2.4				eS	10	00.00			1.4s	180.00nm				5.9mb
LFF	45.57	67	iPc	02	11.00	-2.4				eSS	13	25.00					ePPS	11	13.00	
DOU	45.63	59	Pd+	02	11.40	-2.4	BRN	49.46	53	iPd	02	43.50	-0.1	MNS	54.31	64	P	03	16.50	-3.7
			i	02	15.50		MMK	49.50	62	P	02	42.50	-1.9	SRO	54.63	55	iPc	03	19.80	-2.7
WIT	45.69	54	eP	02	14.00	-0.2	GRFO	49.63	56	e(P)	02	44.00	-1.1	RMP	54.65	64	P+	03	20.00	-2.8
	1.0s	88.00nm			5.7mb		GRF	49.64	56	iPc	02	43.20	-1.9	ILT	54.73	335	Pc	03	21.00	-2.0
TCF	45.87	64	iPc	02	13.40	-2.3		1.3s	221.00nm			6.0mb					eS	11	00.00	
	1.0s	625.00nm			6.5mb			Z 28s		1.00um		4.7MszX		AOU	54.77	63	P	03	21.00	-2.8
RJF	45.89	66	iPc	02	13.30	-2.6	PNI	49.67	64	P	02	42.90	-2.5	NIE	54.86	53	eP	03	22.00	-2.3
LPO	45.97	67	eP	02	14.20	-2.4	LLS	49.71	61	P	02	43.50	-2.5				i	03	26.50	
WTS	46.11	55	eP	02	15.50	-2.0	HOF	49.71	55	iPc	02	43.00	-2.7	SPC	54.95	53	eP	03	22.60	-2.5
	1.0s	232.00nm			6.1mb		LRG	49.82	66	iPc	02	44.40	-2.2	BUD	55.21	55	Pc	03	24.00	-2.8
TBY	46.11	43	P	02	05.40	-12.0	CLL	49.87	54	iP	02	44.20	-2.6				e	03	26.00	
ENN	46.12	57	iPc	02	15.20	-2.4				pP	02	48.00	13kmX				pP	03	29.00	16kmX
	1.0s	276.00nm			6.2mb					e	05	47.00					PcP	04	27.00	
MZF	46.13	64	iPc	02	15.10	-2.7	FRF	49.95	65	iPc	02	45.00	-2.6	JOS	55.49	54	Pd	03	25.00	-3.8
SLL	46.20	43	P	02	06.23	-11.9	LMR	49.98	66	iPc	02	45.20	-2.6				pP	03	30.00	16kmX
EPF	46.23	69	iPc	02	17.00	-1.7	KDC	50.07	316	P	02	46.70	-1.5				PcP	04	28.00	
	0.6s	28.60nm			5.5mb		ROB	50.33	64	P	02	47.00	-3.5				PP	05	27.00	
AVE	46.25	85	iP	02	16.50	-2.4	FUR	50.41	58	iPc	02	48.80	-2.3	KCHT	55.62	70	P+	03	27.50	-2.5
			i	03	27.00			1.5s	310.00nm			6.0mb		DUI	55.81	64	P	03	29.00	-2.2
SSF	46.31	63	iPc	02	16.20	-3.0	BRG	50.60	54	iPc	02	49.80	-2.6	ZGN	56.16	71	P-	03	30.80	-3.1
AVF	46.34	63	iPc	02	16.80	-2.6				i	02	54.00		UZH	56.38	53	eP	03	33.00	-2.2
CAF	46.41	66	iPc	02	17.50	-2.6				S	10	04.00		LVV	56.64	51	Pc	03	34.80	-2.3
LOR	46.43	62	iPc	02	17.30	-2.9				SS	13	45.00		KDS	56.89	108	iP	03	36.00	-3.2
	1.0s	437.00nm			6.4mb		GAP	50.63	59	eP	02	51.30	-1.5	BEO	57.55	57	P	03	35.50	-8.1
HFS	46.49	43	P	02	08.30	-12.2	KJF	50.76	34	iP	02	51.00	-2.5	GIB	57.70	67	P	03	42.00	-2.8
	0.7s	16.00nm						1.2s	116.00nm			5.7mb		MMN	57.79	64	P	03	41.00	-4.3
			e	20	00.00			Z 17s		2.70um		5.3MszX		CSI	58.04	64	P	03	45.50	-1.6
PSO	46.55	195	eP	02	21.50	-0.3				i	03	53.50		SSR	58.26	57	eP	03	46.00	-2.6
KIR	46.56	31	P	02	19.70	-1.2				ePP	04	48.00		ROI	58.34	64	P	03	45.50	-3.7
PYM	46.61	65	P	02	19.90	-1.8				eS	10	08.00		GZR	58.54	56	iPc	03	50.00	-0.6
LBF	46.63	63	iPc	02	19.00	-2.8				eSS	12	40.00		MEI	58.89	67	P	03	49.00	-4.0
CRT	46.65	78	iP	02	21.40	-0.7	SUF	50.84	36	P	02	51.60	-2.5	HUA	59.26	190	P-	03	56.00	-0.2
SMF	46.70	63	iPc	02	19.60	-2.7	WET	50.85	56	iPc	02	51.20	-3.2				iP	04	14.00	
MLS	46.74	69	ePc	02	20.00	-2.7		1.2s	164.00nm			5.8mb					eP	04	47.00	
PMR	46.92	320	P	02	22.70	-1.1	GEN	50.91	63	P	02	54.50	-0.3				eP	05	04.00	
IMA	47.16	326	P	02	24.70	-1.1	OGA	50.92	60	eP	02	53.40	-1.8	NNA	59.41	192	iPc	03	54.90	-1.9
EBR	47.44	72	eP	02	26.00	-2.1		1.5s	167.00nm			5.7mb			1.2s	109.00nm				5.9mb
			e	09	32.00		PCN	51.03	62	P-	02	56.50	0.7				i	03	56.00	
			e	12	58.00		APA	51.15	29	Pc	02	55.00	-1.3	OBN	59.55	40	Pc	03	54.20	-3.1
HAU	47.59	60	iPc	02	27.00	-2.3	KHC	51.25	56	iPc	02	55.50	-2.0	MOS	59.63	39	Pc	03	55.00	-2.9
	1.0s	275.00nm			6.3mb			1.0s	54.50nm			5.4mb		SKO	59.83	60	iPc	03	56.10	-3.4
COP	47.62	49	iPd	02	28.30	-1.0		Z 14s		0.90um		4.9MszX			1.6s	210.00nm				6.0mb
	0.9s	44.00nm			5.5mb			N 14s		0.80um							i	03	57.80	
			i	02	32.00			E 14s		0.80um							e	11	07.50	
			iS	09	32.00					e	03	12.30					eS	12	03.50	
			iSS	13	07.00		SAL	51.26	61	P	02	56.00	-1.5				iSS	16	07.00	

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CMP	59.88	55	Pd	03	58.00	-1.9	DSH	85.98	33	Pc	06	33.30	-0.2				e	47	52.00				
OHR	59.97	61	iP	03	58.40	-2.2	SHI	86.10	50	eP	06	33.00	-1.3	KRP	26.65	163	iP	38	28.80	-1.7			
MLR	60.25	54	P	04	02.00	-0.5	WMQ	86.78	18	Pc	06	36.50	-0.8				i	38	33.00				
PT02	60.29	191	eP	04	01.10	-1.7				S	17	07.00					ScP	45	35.00				
SOB2	60.78	151	eP	04	04.60	-1.5	KUL	86.93	33	ePd	06	38.00	-0.1				ScS	49	29.00				
			e	04	05.10		MDJ	87.67	348	P	06	41.00	-0.4	YOU	26.88	214	P	38	32.20	-0.5			
KIS	60.89	51	Pc	04	03.00	-3.6				eS	17	22.00		JAY	26.93	290	eP	38	34.50	1.1			
			isP	04	07.50		KSH	87.71	28	P	06	42.50	0.6	WTZ	27.15	161	eP	38	38.00	2.9X			
VAY	60.90	60	eP	04	03.70	-3.1				eS	17	19.00		CAN	27.36	211	P	38	40.20	3.1X			
TIK	61.17	354	ePc	04	06.00	-2.2	KHO	87.95	32	P	06	43.40	0.2				e	42	02.00				
			esP	04	07.50		CN2	88.97	351	P	06	45.50	-2.2	GNZ	28.09	160	eP	38	45.00	1.4			
			eS	12	30.00		KBL	89.61	35	e(P)	06	51.00	-0.2				S	43	27.00				
PT03	61.25	190	eP	04	07.50	-1.8	BTO	92.75	3	P	07	05.60	0.2	WAM	28.10	210	P	38	42.40	-1.4			
PVL	61.27	57	iPd	04	07.00	-2.3	GTA	93.14	10	Pc	07	06.10	-1.2				e	42	03.00				
DIM	62.20	57	eP	04	12.00	-3.6	BJI	93.32	358	eP	07	06.00	-1.9	COB	29.02	169	iP	38	51.50	-0.5			
KDZ	62.32	58	Pd	04	14.00	-2.4		1.5s		52.00nm			5.7mb				i	38	54.00				
NRI	62.45	10	ePc	04	15.00	-1.8	MAT	93.91	340	P-	07	09.60	-1.1				S	43	54.00				
			eS	12	29.00		TIY	95.68	1	P	07	18.20	-0.7				ScP	45	40.00				
ZOBO	62.97	182	P	04	19.30	-2.1	LZH	96.87	8	P	07	24.00	-0.5	MNG	29.16	165	iP	38	47.40	-5.9X			
LPB	63.23	182	Pc	04	21.00	-2.0	TIA	97.11	357	P	07	25.00	-0.3				i	38	56.00				
			S	12	52.00		NDI	97.93	32	P	07	29.00	-0.1				S	43	41.00				
			e	22	34.00		XAN	99.25	4	P	07	33.80	-1.3				ScP	45	41.00				
ARE	63.30	185	eP	04	20.00	-3.3	GBA	111.64	38	PKPc	12	26.20	-2.1				ScS	49	41.00				
DMK	63.59	56	eP	04	21.60	-3.2		0.7s		2.60nm							e	52	47.00				
ATH	63.70	62	eP	04	23.00	-2.5	CHG	113.24	15	ePKP	13	20.10	48.8	STK	29.51	225	eP	38	55.00	-1.6			
CTT	64.41	57	eP	04	26.50	-3.7	PSI	128.93	19	ePKP	13	00.00	-1.5				e	39	01.00				
EDC	64.61	57	iP	04	29.50	-1.9	NOU	130.97	281	PKPc	13	04.00	-1.2				e	45	51.00				
IST	64.80	56	e(P)	04	30.00	-2.6	KOU	131.21	285	PKPc	13	03.80	-1.8				e	48	13.00				
SIM	65.02	50	eP	04	33.00	-1.0	PPI	132.30	18	ePKP	13	05.50	-2.4	WEL	29.62	167	iPc	38	56.00	-1.4			
DST	65.54	58	iP	04	35.10	-2.4	MNG	135.74	255	iPKP	13	14.70	0.9				S	43	36.00				
SEY	66.14	342	eP	04	38.00	-2.9	SPA	136.79	180	iPKPc	13	15.00	-0.1				ScP	45	42.00				
			eS	13	24.70			1.0s		25.00nm							ScS	49	38.00				
KIC	66.39	107	iP	04	40.90	-2.2	CTA	142.10	304	PKP	13	19.60	-6.4	SNZO	29.63	167	e(P)	38	57.50	0.0			
			e	07	05.20		MTN	142.83	330	ePKP	13	21.00	-6.3	TOO	30.90	213	eP	39	07.00	-1.8			
MGN	66.68	55	iP	04	44.50	-0.3	SBA	143.01	196	iPKP	13	22.80	-3.1				e	39	12.00				
ALT	66.76	57	iP	04	43.00	-2.4	BRS	143.49	288	PKPd	13	27.10	-1.1	WB2	31.18	252	P	39	08.00	-3.5X			
KAS	67.25	53	iPc	04	47.50	-0.9	COO	146.17	285	ePKP	13	33.00	0.3				eS	43	20.00				
ARU	67.29	29	Pc	04	46.00	-2.3	KNA	146.32	332	ePKP	13	32.00	-1.2	WRA	31.19	252	P	39	12.00	0.4			
			isP	04	50.00		WB2	148.04	320	PKP	13	33.40	-2.5		0.8s		5.30nm			4.5mb X			
			eS	13	43.00					i	13	36.00		RHP	31.62	174	iP	39	10.20	-4.9X			
SVE	67.63	28	eP	04	48.00	-2.5	WRA	148.05	320	PKPc	13	33.50	-2.4				i	39	19.00				
BCK	68.12	58	iP	04	52.90	-1.0		0.9s		19.70nm							PcP	42	12.00				
ELL	68.20	59	iP	04	53.90	-0.6	YOU	150.79	283	PKP	13	39.30	-0.4				ScP	45	51.00				
KVT	68.70	52	iP	04	56.40	-1.0				i	13	45.00					i	45	57.00				
MGD	68.99	341	ePc	04	56.00	-2.9	CAN	150.98	281	PKP	13	39.30	-0.7				ScS	49	51.00				
PYA	70.23	46	P	05	05.00	-1.7				i	13	44.00		MSZ	32.03	177	P	39	15.00	-3.6X			
ANT	70.44	184	P	05	07.00	-1.0	ASP	151.50	318	ePKP	13	39.00	-2.1				i	39	22.00				
YAK	70.56	352	Pd	05	06.20	-2.1	WAM	151.54	279	PKP	13	45.50	4.7				ScP	45	59.00				
GRO	72.02	45	Pd	05	17.00	-0.5				i	13	49.00		BFD	32.25	217	eP	39	24.00	3.3X			
BKR	72.14	48	Pd	05	17.50	-1.0	STK	153.66	295	ePKP	13	43.00	-0.9	ASPA	32.33	246	eP	39	19.00	-2.6			
PET	73.15	333	eP	05	22.00	-1.9		393 obs. ossocioted						ADE	33.26	223	P	39	29.40	-0.1			
FDA5	74.08	166	P	05	29.70	0.0								GUA	33.30	320	eP	39	33.20	3.3X			
			epP	05	33.50	12kmX	AUG 05, 1982 20h 32m 48.98± 1.79s								1.0s		304.00nm			6.2mb			
KRV	74.37	47	P	05	30.00	-1.2	12.573 S ± 2.7km 165.968 E ± 2.4km							GUMO	33.36	320	eP	39	32.50	2.0			
GRS	75.23	47	Pc	05	34.80	-1.7	DEPTH = 5.0 ± 10.5 km								1.6s		987.00nm			6.5mb			
			isP	05	40.60		6.0mb (30 obs.) 7.1Msz (30 obs.)							RAR	33.83	109	P	39	32.00	-2.5			
NVS	75.37	17	Pc	05	33.80	-2.9	SANTA CRUZ ISLANDS (184)										S	45	00.00				
			eS	15	18.10									MTN	33.97	266	Pd	39	39.00	3.2X			
BOD	75.53	360	Pc	05	36.20	-1.4	PVC	5.61	157	Pnc	34	18.90	3.7X				e	42	14.00				
TAB	76.32	48	eP	05	43.00	0.4				iS	35	28.50					e	48	54.00				
			e	08	33.00		HNR	6.68	297	ePn	34	32.00	1.7	TAU	34.27	205	Pc	39	41.00	2.9X			
ELT	77.51	16	Pc	05	46.80	-1.9	KOU	8.11	191	Pc	34	48.80	-1.4				i	42	20.80				
			eS	15	41.00		NOU	9.69	177	Pd	35	12.60	0.4				eS	45	01.00				
TCA	77.98	178	ePd	05	51.00	-0.6				iS	37	16.50		KNA	36.18	260	eP	39	54.00	-0.7			
SEM	78.87	21	Pc	05	54.60	-1.7	NDF	12.22	116	eP	35	46.00	-0.7	AAI	38.37	280	ePd	40	21.30	8.1X			
			eS	15	55.00		SVA	13.24	116	ePd	36	03.30	2.9X	WBN	39.37	244	eP	40	23.00	1.5			
UKR	79.38	18	Pc	05	56.90	-2.1				eS	45	23.00		KUPT	41.57	269	eP	40	49.50	9.9X			
			eS	16	00.90		ESA	15.13	279	eP	36	31.50	6.3X	MCQ	42.19	186	eP	40	48.00	3.9X			
PEL	79.84	183	P-	06	01.80	0.2	RAB	15.98	300	ePd	36	43.00	6.7X	AFR	42.95	102	iP	40	52.10	1.2			
IRK	80.82	6	eP	06	02.00	-4.7	LMG	17.88	280	eP	37	03.00	2.6		1.2s		380.00nm			6.0mb			
MOY	81.14	8	eP	06	09.00	0.6	KVG	18.01	302	eP	37	02.00	0.1	MNI	43.13	286	eP	40	57.50	5.0X			
			isP	06	10.70		PMG	18.73	278	eP	37	11.00	0.2		0.7s		138.00nm			5.8mb			
ZAK	82.63	6	Pc	06	16.50	0.4				e(S)	40	49.00		PAE	43.14	102	iP	40	53.70	1.3			
YSS	82.92	340	Pd	06	18.00	0.3	BRS	19.24	218	Pd	37	16.10	-0.8		1.2s		230.00nm			5.8mb			
BNG	83.51	90	iPc	06	19.50	-1.8	LAT	19.60	286	P	37	21.50	0.3	PPT	43.14	102	iP	40	53.90	1.4			
	1.2s		52.80nm			5.6mb	CTA	20.33	246	P	37	28.50	-0.5		1.2s		280.00nm			5.9mb			
CON	83.63	185	P-	06	22.60	1.4				iS	41	10.00		PPN	43.28	102	iP	40	54.80	1.2			
TAS	83.75	32	ePc	06	21.00	-1.1	MOM	21.16	298	eP	37	39.00	1.5	TVO	43.45	103	iP	40	55.50	0.4			
MHI	84.07	41	Pd	06	23.90	-0.1	MDG	21.22	288	eP	37	43.00	4.9X	DAV	44.65	294	Pc	41	08.00	3.3X			
FRU	84.21	28	Pc	06	24.20	-0.3	AFI	21.70	96	P	37	43.00	-0.1	PMO	44.81	99	iP	41	06.30	0.3			
SAM	84.33	34	eP	06	25.00	-0.1				S	41	32.00			1.2s		450.00nm			6.3mb			
TLG	84.67	26	Pc	06	26.00	-0.8	COO	22.15	214	eP	37	48.00	0.5	KLG	44.82	239	eP	41	05.00	-1.0			
ANR	85.33	30	ePc	06	29.00	-1.1				e	47	06.00		MBL	44.84	253	eP	41	11.00	4.8X			
TMU	85.50	185	eP	06	30.00	-0.6	RAO	22.36	140	eP	37	51.00	1.5	VAH	45.06	99	iP	41	08.00	0.0			
PRZ	85.68	25	Pd	06	32.00	0.0	CRZ	22.60	165	iP	37	56.00	4 2X		1.2s		385.00nm			6.2mb			
NRN	85.92	27	Pc	06	33.60	0.2	RIV	25.10	210	eP	38	17.00	0.9	TPT	45.08	99	iP	41	08.40	0.2			
			eS	17	10.00		ISQ	26.54	249	eP	38	30.00	0.2		1.2s		320.00nm			6.1mb			

05d 20h

RUV	45.30	99	iP	41 09.90	0.0	KUSJ	58.72	342	P	42 50.00	0.0				eS	53 52.00							
	1.2s	510.00nm		6.4mb		HAK	58.89	338	P	42 57.00	5.8X	CHTO	73.04	294	e(P)	44 21.00	-1.4						
CGP	46.03	295	ePd	41 17.80	2.1	MRRJ	59.31	339	P	42 55.00	0.8	HHC	73.13	320	P	44 21.90	-0.8						
			eS	46 32.00		QZH	59.37	309	P	42 55.10	0.2				S	53 50.00							
MKS	46.46	275	i(P)	41 24.00	4.9X				iS	51 05.00					SKS	54 30.00							
MEK	46.55	245	eP	41 21.00	1.3	KUR	59.82	345	Pc	43 00.00	2.4	MGD	73.45	352	ePc	44 25.00	1.1						
PLP	47.03	298	eP	41 24.00	0.4				iS	51 11.00					eS	53 50.00							
CCP	47.57	297	ePd	41 32.50	4.7X	ASAJ	60.29	341	P	43 02.00	1.2	CD2	73.70	308	P	44 25.30	-0.8						
KLB	48.09	239	eP	41 32.00	0.2	SSE	61.10	316	iPc	43 10.00	3.4X				S	53 58.00							
NWAO	48.81	237	eP	41 35.00	-2.3	Z	19s	37.30um		6.6Msz					SKS	54 26.00							
HON	48.85	47	P	41 40.00	2.3	E	19s	32.20um							SS	58 42.00							
KIP	48.91	47	eP	41 36.00	-2.1				PP	43 30.00		BTO	73.98	319	P	44 27.90	0.4						
			eS	48 56.00					PP	45 29.00					S	53 59.00							
LGP	49.06	300	ePc	41 40.50	1.1				PPP	46 57.00		LZH	75.94	312	Pc	44 38.50	-0.5						
	1.2s	233.00nm		6.1mb					iS	51 30.00					S	54 19.00							
MUN	49.46	239	eP	41 42.00	-0.3	HKC	61.47	304	iP	43 14.00	4.7X				ScS	54 53.00							
Z	20s	203.00um		7.1Msz					iS	51 23.00		SEY	75.97	354	Pc	44 40.10	1.7						
N	20s	91.00um				MCO	61.88	304	iP	43 17.00	4.9X	SPA	77.51	180	ePd-	44 43.00	-4.2X						
E	20s	120.00um				GZH	62.52	304	P	43 16.00	-0.3		1.0s	355.00nm			6.4mb						
PAP	49.77	297	eP	41 48.50	3.6X				iS	51 40.00		KDC	77.92	21	eP	44 52.50	3.2X						
PGP	51.60	299	eP	42 01.50	2.7	YSS	62.87	342	eP	43 15.00	-3.2X	KOI	78.83	301	ePc	44 52.00	-3.1X						
PPR	51.91	293	eP	42 03.30	2.1				isP	43 17.80					iPcP	44 59.00							
	1.3s	160.00nm		5.8mb					iS	51 50.00					ePP	47 50.00							
MAN	52.04	300	eP	42 07.50	5.3X	NJ2	63.26	316	P	43 21.00	0.0				e	54 09.00							
TRT	52.65	270	ePc	42 11.20	4.3X				iS	51 56.00		IMP	79.42	298	P	44 50.20	-8.1X						
KKM	52.79	288	ePd	42 12.70	4.7X	SKR	63.56	353	Pc	43 22.00	-0.7	YAK	79.59	344	eP	44 57.00	-1.4						
	1.5s	386.00nm		6.1mb					iS	52 00.00					iS	54 59.90							
			i	51 26.00		VLA	63.59	333	P	43 22.40	-0.6	GTA	80.27	314	P	45 01.50	-1.2						
BAG	53.32	302	Pc	42 10.00	-1.9				iS	52 04.00					S	55 05.00							
			e	51 26.00		SBA	65.28	180	iP	43 29.90	-3.6X	TTA	80.82	17	eP	45 02.70	-2.3						
TAT	53.38	333	P	42 17.00	5.2X				i	43 38.00		ILT	81.02	6	Pd	45 05.00	-0.8						
KYS	53.44	334	eP	42 13.00	0.7				PcP	44 22.00					iS	55 08.00							
TK02	53.49	331	P	42 16.00	3.7X				i	51 28.00		SHL	81.43	299	P+	45 08.00	-1.2						
KTJ	53.69	333	P	42 11.00	-3.1X				S	52 23.00					S	55 22.00							
SZP	53.99	303	iPd	42 20.00	3.4X				PS	52 56.00		BOD	81.94	335	eP	45 08.00	-2.9						
OYM	54.02	333	eP	42 11.50	-5.1X				ScS	53 35.00		PME	81.97	20	eP	45 09.50	-1.4						
SRY	54.17	333	eP	42 12.00	-5.6X				SS	56 38.00			1.0s	40.00nm			5.5mb						
KAKJ	54.28	334	P	42 16.00	-2.4				LQ	59 42.00		Z	20s	160.00um			7.4Msz						
TSK	54.32	334	eP	42 16.40	-2.3				LR	05 00.00		ZAK	83.07	325	Pc	45 14.70	-2.1						
OWA	54.35	330	P	42 20.00	1.1	WHN	65.57	312	P	43 36.50	0.4				iS	55 40.00							
DDR	54.53	333	eP	42 17.40	-3.0X				iS	52 22.00		TOA	83.27	21	eP	45 14.00	-3.8X						
CHJJ	54.66	333	P	42 19.00	-2.2	PET	65.62	355	Pc	43 37.00	1.0	LSA	83.35	302	P	45 19.50	0.1						
IIDJ	54.67	332	P	42 19.00	-2.4				eS	52 20.00					S	55 39.50							
MRT	54.73	327	P	42 26.00	4.2X	KLM	65.75	279	ePd	43 42.00	4.4X				SS	01 06.50							
WKYJ	54.77	329	P	42 23.00	0.9	MDJ	65.79	332	P	43 36.00	-1.3	MAW	83.40	202	eP	45 15.00	-3.3X						
KAGJ	55.02	323	P	42 27.00	3.0X	ADK	65.93	12	eP	43 38.00	0.0				e	45 23.00							
SHR	55.04	335	P	42 25.00	1.0	PPI	66.08	275	eP	43 42.30	2.6	IRK	83.44	327	eP	45 15.00	-3.8X						
GIF	55.14	331	P	42 29.00	4.3X				eS	52 55.20					eS	55 34.00							
SUM	55.20	329	P	42 27.00	1.8	IPM	66.73	281	ePd	43 45.00	1.1	FHC	83.56	46	iP	45 22.00	2.3						
MYZ	55.24	324	P	42 30.00	4.5X		1.4s	80.20nm		5.7mb		BRK	83.72	49	P	45 21.00	0.5						
TKSJ	55.37	328	P	42 30.00	3.6X				e	53 00.80		BKS	83.74	49	ePc	45 21.50	0.9						
MAT	55.42	333	P+	42 23.50	-3.3X	TIA	66.89	319	P	43 44.00	-0.5		0.8s	115.00nm			6.2mb						
			S	50 09.00		CN2	67.16	329	Pc	43 43.40	-2.6	Z	20s	254.00um			7.6Msz						
NOB	55.59	325	P	42 33.00	5.0X				eS	52 40.00		N	20s	187.00um									
TSRJ	55.63	330	P	42 25.00	-3.3X	BGV	67.62	299	P	43 54.00	4.6X	E	20s	75.00um									
MTMJ	55.64	333	P	42 25.70	-2.7	SNG	67.84	283	iP	43 54.00	3.1X				ePP	48 29.60							
NIIJ	55.66	334	P	42 25.00	-3 4X		1.3s	231.00nm		6.2mb					eS	55 57.60							
ISN	55.73	337	P	42 29.00	0.0				iS	52 56.00					ePPS	56 58.40							
YAM	55.96	336	P	42 31.00	0.4	PSI	68.27	278	ePc	43 43.50	-10.1X				e	59 30.80							
YAMJ	56.02	335	P	42 32 00	1.0	NKI	68.74	16	eP	43 55.10	-0.6				eSS	00 48.00							
KAN	56.13	332	P	42 36.00	4.2X	TSI	68.82	279	ePc	44 01.10	4.1X				eSSS	04 25.20							
OFUJ	56.17	337	P	42 32.00	-0.1	GYA	69.46	305	P	44 01.00	0.1	IMA	83.91	15	eP	45 17.50	-3.6X						
TTN	56.21	308	P	43 36 00	63.4X				S	53 10.00			1.0s	12.50nm			5.1mb						
MIZ	56.42	337	iPc	42 37.20	3.3X				SS	57 48.00		SAO	83.93	50	iP	45 24.40	2.8X						
			S	50 27.00		BJI	69.80	321	iP	44 06.00	3.5X	MHC	83.99	50	iPc	45 21.60	-0.4						
HIR	56.51	327	P	42 39.00	4.4X	Z	23s	96.50um		7.0MszX		RMT	84.16	47	eP	45 21.00	-1.6						
SHK	56.51	327	ePc	42 32.10	-2.6	N	22s	65.90um				PNL	84.24	25	eP	45 22.50	-0.2						
			eS	50 29.00		E	21s	38.10um				PRI	84.31	51	iP	45 24.70	1.0						
HWA	56.54	310	P	42 40.30	5.3X				PPP	48 19.00		SIT	84.50	28	eP	45 25.00	1.1						
			iS	50 37.10					S	53 13.00		WDC	84.50	47	iPc	45 24.00	-0.4						
MIY	56.55	338	P	42 35.00	0.2	TIY	70.83	318	P	44 08.20	-0.7	COL	84.70	18	eP	45 18.00	-6.9X						
YONJ	56.61	328	P	42 34.00	-1.4				iS	53 26.00					eS	56 00.00							
SKH	56.63	336	P	42 39.00	3.6X	XAN	71.31	313	P	44 11.00	-0.9	FBA	84.70	18	P	45 23.00	-1.9						
DRV	56.76	192	P	42 33.00	-3.1X				eS	53 28.00		ORV	84.87	48	P	45 25.00	-1.3						
			eS	50 25.00		MIR	71.78	204	Pc	44 16.00	1.9	MOY	84.96	326	ePc	45 24.00	-2.4						
			eSS	54 18.00					iS	53 37.00					isP	45 26.70							
			e	59 00.00		KMI	72.10	302	Pc	44 16.00	-1.1	JAS	85.09	50	iPc	45 26.60	-0.8						
HJH	56.97	336	P	42 35.00	-2.8	E	18s	27.20um				FRI	85.32	51	iP	45 27.70	-0.8						
MTS	57.02	328	P	42 42.00	3.8X				S	53 22.00		COR	85.47	43	iPc	45 28.00	-1.1						
SHNJ	57.06	326	P	42 42.00	3.5X				SS	53 44.00		PAS	85.59	54	iPc	45 28.00	-2.0						
ANP	57.32	311	iPc	42 45.00	4.3X	BSI	72.46	280	ePd	44 23.00	4.0X		0.8s	5600.00nm			7.8mb X						
			iS	50 42.00			1.3s	481.00nm		6.4mb		Z	20s	44.00um			6.9Msz						
LEM	57.71	270	iPc	42 50.00	6.3X	BDT	72.46	293	eP	44 18.30	-0.6	N	20s	14.00um									
			iS	50 50.00			1.0s	152.00nm		6.1mb		E	20s	20.00um									
AOMJ	57.94	337	P	42 45.00	0.4				e	53 31.00					e	46 32.00							
HOOJ	58.52	340	P	42 53.00	4.3X	CHG	73.04	294	iPc	44 20.70	-1.7				ePP	48 32.00							
NEM	58.67	343	P	42 49.00	-0.7		1.0s	15.00nm		5.1mb					ePPP	50 44.00							

05d 20h

			eS	56	00.00		POO	95.89	288	P+	46	24.50	5.9X				SKP	55	21.50										
			ePPS	57	05.00		YKA	96.22	27	P	46	22.00	2.8X	RSNY	119.67	46	ePKP	51	41.80	-0.1									
			eSS	01	00.00		MOT	96.32	60	P	46	21.00	0.3	MNT	120.09	45	ePKP	51	45.00	2.4X									
			eSSS	05	24.00		PRZ	96.60	312	eP	46	25.00	3.5X	BOG	120.23	92	ePKP	51	53.00	8.7X									
WKTM	85.89	52	eP	45	31.70	0.1				eS	57	50.00		BOG	120.23	92	ePdiff	47	09.00	-58.9X									
BOK	86.23	295	P	45	36.00	2.7X	AJM	96.86	295	P+	46	27.00	4.2X	KIR	120.37	346	PKPc	51	40.60	-1.9									
			S	56	09.00					PP	50	28.80					i	51	43.20										
BFW	86.26	41	eP	45	36.60	3.5X	SEM	96.87	320	ePc	46	18.00	-4.3X	GRO	120.47	313	ePKP	51	46.00	2.6X									
SDW	86.59	54	e(P)	45	35.50	0.4	GOL	96.89	51	e(P)	46	15.60	-7.5X		Z 22s		29.00um			6.9Msz									
VPIM	86.76	44	eP	45	34.20	-1.6		0.9s		9.00nm			5.4mb		N 22s		27.00um												
VHEM	86.82	42	eP	45	37.70	1.7	BOM	96.92	288	P	46	29.00	5.8X		E 22s		45.00um												
VIS	86.94	289	P+	45	43.00	6.1X	SNA	96.92	184	e(P)	46	25.00	2.7X				iPP	53	14.00										
MNA	86.95	50	eP	45	36.00	-0.8	NRI	97.45	340	Pc	46	25.00	0.4				iSP	02	56.00										
TIK	87.61	349	ePc	45	40.00	1.0	TLG	97.48	313	Pc	46	29.00	3.7X	GRO	120.47	313	ePdiff	48	12.00	4.1X									
			eS	56	15.00		KSH	97.86	309	P	46	25.00	-2.2	KRV	120.51	310	PKP	51	45.00	1.4									
YMT1	87.69	52	eP	45	41.20	0.9				PP	50	30.00		KRV	120.51	310	ePdiff	48	07.00	-1.1									
GLA	87.93	56	eP	45	38.80	-2.7				SKS	57	12.00		GRS	120.70	309	iPKP	51	44.40	0.2									
BMN	88.26	48	eP	45	38.80	-4.2X				eS	57	43.00					iPP	53	19.00										
	0.8s		15.00nm			5.4mb	NRN	98.17	311	eP	46	32.00	3.1X	GRS	120.70	309	Pdiffc	48	11.40	2.2X									
EUR	88.89	49	iP	45	46.80	0.6				eS	58	06.00		CNG	120.74	229	ePKP	51	49.00	4.6X									
	1.2s		11.00nm			5.0mb	MBC	98.52	13	eP	46	30.70	1.4	KER	120.76	303	ePKP	51	47.50	3.0X									
VAR	89.05	296	P+	45	51.20	4.3X		1.5s		60.00nm			6.1mb	KJF	120.88	340	ePKP	51	42.00	-1.5									
WMO	90.32	315	Pc	45	50.00	-2.6	IIM	98.58	72	Pd	46	36.00	5.0X		1.0s		78.00nm												
			PP	49	30.50		LUB	98.62	58	eP	46	30.00	-0.7		Z 21s		61.60um			7.2Msz									
			eSKS	56	26.00		KRD	99.17	312	P+	46	17.00	-16.0X				i	51	46.00										
			S	56	41.00		FRU	99.41	312	ePc	46	37.00	2.9X				ePP	52	56.00										
KOD	90.75	280	eP	46	02.00	6.6X				iS	58	07.00					eSKP	54	08.00										
			PcP	46	07.30		ANR	100.80	309	ePdiff	46	44.00	3.6X				ePS	03	04.00										
			PP	49	35.00					eS	58	17.00					e	04	44.00										
			PPP	51	33.00		KHO	101.02	306	Pdiffc	46	41.90	0.2	KJF	120.88	340	ePdiff	48	08.00	-1.2									
			SKS	56	31.00					S	58	20.40		TAB	120.93	307	e(Pdif	48	40.00	29.8X									
			SKKS	56	40.00		GAR	102.15	308	ePdiff	46	49.00	2.4X				e	51	55.00										
			eS	56	50.30					eS	58	27.00		BCT	121.11	49	ePKP	51	48.10	3.4X									
			PS	57	57.00		KUL	102.47	306	ePdiff	46	48.00	0.0	DVT	121.21	45	ePKP	51	45.60	0.8									
			PPS	58	28.00		DSH	103.30	307	ePdiff	46	54.00	2.3X	MOS	121.39	329	ePdiff	48	16.00	4.4X									
			SS	02	48.00		SAM	104.78	308	Pdiffc	47	01.30	3.1X	MOS	121.39	329	ePKP	51	16.00	-28.7X									
			SSS	06	21.00		SVE	108.82	326	Pdiffc	47	18.00	2.3X				iPP	53	19.00										
			LQ	10	02.00		ARU	109.99	326	ePdiff	47	24.00	3.1X				ePPP	55	54.00										
			LR	15	44.00		ARU	109.99	326	ePKP	51	26.00	3.0X				ePS	03	16.00										
NEW	90.76	41	eP	45	54.80	0.4				iPP	51	54.00		MTA	121.45	311	ePKP	51	42.60	-2.7X									
	Z 20s		30.00um			6.7Msz				ePS	01	25.50					ePS	03	11.00										
	N 20s		22.00um							eSPP	02	26.00		MTA	121.45	311	ePdiff	48	16.00	3.8X									
	E 20s		23.00um				MHI	110.56	304	Pdiffc	47	29.40	5.3X	ERE	121.97	310	iPKP	51	50.00	3.5X									
INK	91.27	19	eP	45	58.00	1.7				e	50	38.20					iPP	53	28.00										
HYB	91.28	287	ePc	45	57.00	-0.4				i	52	07.20					iSP	03	15.00										
			e	46	01.50		ASH	111.47	306	ePdiff	47	33.00	5.0X	ERE	121.97	310	ePdiff	48	22.00	7.2X									
			e	46	11.00		VAN	111.67	306	ePdiff	47	37.00	8.1X	PYA	122.17	314	PKP	51	48.60	1.9									
			ePP	49	38.00		KAT	113.07	307	ePdiff	47	39.00	4.0X				iPP	53	26.80										
			e	55	12.50		UTO	113.51	50	iPdiff	47	38.00	1.1				iSP	03	14.00										
			eSKS	56	31.50		CLE	115.05	50	Pdiffc	47	27.70	-16.1X				iSPP	04	40.00										
			eS	57	00.00					eSKS	58	23.00		PYA	122.17	314	ePdiff	48	18.00	2.5X									
			ePS	58	16.00		DAG	115.76	1	ePKP	51	34.00	0.5	OBN	122.17	328	ePKP	51	48.00	1.8									
DUG	91.43	49	eP	45	59.10	1.3				iPP	52	37.00					iPP	53	26.00										
MSU	91.47	51	eP	45	55.60	-2.6				iS	00	33.00					iSP	03	12.00										
GBA	91.50	284	Pd	45	59.70	1.3				iPS	02	13.00					iSPP	04	40.00										
	1.0s		39.90nm			5.7mb	BLA	116.26	55	ePdiff	47	49.20	-0.2				iSS	10	00.00										
MSO	92.40	43	ePc	46	04.00	1.9				eS	02	20.00		OBN	122.17	328	ePdiff	48	18.00	2.9X									
	Z 18s		18.50um			6.6Msz	ARE	116.30	116	iPKP	52	40.00	63.4X	LEN	122.34	310	PKPc	51	50.00	2.7X									
BUT	93.11	44	ePc	46	05.00	-0.5	APA	116.98	342	ePdiff	47	52.00	0.3	BKR	122.38	312	iPKP	51	46.00	-1.3									
LRM	93.13	44	eP	46	08.10	2.4	APA	116.98	342	iPKP	51	39.90	3.9X				iPP	53	21.00										
IMW	93.70	46	ePd	46	09.20	0.8		Z 22s		88.00um			7.3Msz	BKR	122.38	312	ePdiff	48	20.00	3.4X									
HRY	93.77	43	eP	46	09.60	1.1		N 23s		40.00um				SUF	122.39	339	PKP	51	44.50	-1.9									
AIA	93.83	161	e(P)	46	10.00	1.7		E 20s		45.00um				PUL	122.67	335	ePKP	51	48.00	1.0									
SEH	93.85	293	P	46	11.00	1.9				iPP	52	45 00			Z 22s		43.00um			7.1Msz									
UKR	94.20	321	Pc	46	07.80	-2.3				iSP	02	26.00			N 22s		32.00um												
BDW	94.42	47	eP	46	11.80	0.1	LPA	117.06	140	PKPd	51	32.00	-5.2X		E 22s		10.00um												
	1.1s		25.88nm			5.5mb				PP	52	44.00					ePP	53	26.00										
	Z 20s		156.25um			7.5Msz				PKS	55	08.00					ePPP	55	58.00										
DDI	94.47	300	P	46	14.00	2.1				PPP	55	17.00		PUL	122.67	335	ePdiff	48	20.00	2.8X									
			SKS	56	53.00					SKS	58	25.00		EVA	122.87	227	ePKP	51	51.00	2.3X									
NDI	94.85	298	iPc	46	15.40	1.8	KEV	117.33	345	ePdiff	47	48.00	-5.2X	BHD	123.13	302	PKPc	51	53.00	4.2X									
	Z 18s		18.20um			6.6Msz	KEV	117.33	345	ePKP	51	38.00	1.4	BLF	123.21	222	ePKP	51	50.50	1.2									
			iPP	50	14.40			1.0s		52.00nm							i	52	48.00										
			iSKS	56	50.40			Z 20s		61.20um			7.2Msz	MIM	123.27	44	ePKP	51	49.00	0.3									
			iS	57	25.40					i	51	48.50		CBM	123.36	42	ePKP	51	50.60	1.8									
			iPS	58	42.40					ePP	52	48.00		UME	123.49	343	PKP	51	44.90	-3.6X									
			iSS	03	50.40					ePS	02	36.00					i	51	50.50										
NVL	95.00	188	eP	46	15.00	1.4	INY	118.66	48	ePKP	51	30.00	-10.0X	MSL	123.69	305	ePKP	51	45.50	-4.4X									
	1.6s		190.00nm			6.3mb	OTT	118.67	45	ePKP	51	42.00	2.1X	PRY	123.74	225	ePKP	51	47.00	-3.4X									
	Z 21s		96.70um			7.2Msz	YJA	118.86	124	e(PKP)	51	40.00	-1.6				i	51	54.00										
			eS	57	22.00		SOD	119.08	343	ePKP	51	39.00	-1.0	SLR	123.90	227	iPKPd	51	53.20	2.4X									
ALQ	95.13	55	eP	46	13.00	-2.1				i	51	43.80			1.0s		64.00nm												
	1.0s		16.50nm			5.4mb				ePKKP	01	57.00			Z 19s		169.00um			7.7Msz									
	Z 19s		139.00um			7.4Msz	LPB	119.24	117	Pdiffc	48	04.00	0.5	CLK	123.97	241	ePKP	51	53.00	2.0									
ANMO	95.13	55	eP	46	17.00	1.9	LPB	119.24	117	PKP	51	45.00	2.6X	CIR	124.12	234	ePKP	51	53.00	1.8									
GOA	95.32	285	P	46	19.10	3.1X				SKS	58	43.00		SUR	124.24	216	iPKPd	51	54.70	3.4X									
			SKS	56	49.50		ZOBO	119.32	117	PKPc	51	40.60	-2.1		0.8s		50.70nm												

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      Z  17s   162.00um          7.8MszX
NUR   124.41 338 iPKP   51 49.00  -1.4
       0.9s    98.00nm
      Z  22s    54.10um          7.2Msz
                 i      51 54.90
                 ePP    53 32.00
                 eSKP   54 44.00
                 ePS    03 32.00
                 ePPS   05 04.00
                 eSS    10 36.00
NUR   124.41 338 ePdiff48 28.00   3.1X
PO0   124.41  44 ePKP   51 50.20  -0.8
ARO   124.46 275 iPKPc  51 55.40   3.4X
TUH   124.48 214 ePKP   51 52.00   0.5
SOC   124.62 315 ePKP   51 53.50   2.1X
                 iPS    03 40.00
                 iSS    10 36.00
SOC   124.62 315 ePdiff48 29.00   2.6X
KSR   124.80 226 e(PKP)51 55.00   2.5X
TET   124.95 240 ePKP   51 59.00   6.2X
                 e      53 53.00
                 e      55 23.00
ANN   125.86 317 ePKP   51 54.00   0.2
ANN   125.86 317 ePdiff48 37.00   5.2X
AKU   126.88   2 ePKP   51 51.40  -3.7X
       1.0s    52.00nm
      Z  20s    22.70um          6.8Msz
                 i      52 00.20
                 i      01 09.20
                 e      05 09.10
BUL   126.92 233 ePKP   51 57.00   0.2
                 ePP    53 27.00
                 iPKKP  01 10.00
UPP   127.31 341 Pdiff  48 39.00   1.2
UPP   127.31 341 iPKP   51 55.00  -1.0
                 iPP    53 56.00
                 iPKS   55 12.00
NAI   127.71 258 ePKP   52 04.00   5.5X
       1.0s    30.00nm
                 eS     20 48.00
APO   127.90 343 PKP    51 58.55   1.3
KRI   127.91 237 ePKP   51 58.00  -0.7
                 iSKP   55 33.00
                 iPKKP  01 11.00
SIM   127.94 318 ePKP   51 53.00  -4.8X
                 ePP    54 04.00
SIM   127.94 318 ePdiff48 43.00   1.9
KVT   127.97 313 ePKP   51 58.00   0.0
AAE   128.08 272 ePKP   52 03.00   3.7X
SLL   128.13 343 PKP    51 59.25   1.6
REY   128.21   4 ePKP   51 57.20  -0.4
                 i      52 06.10
NB2   128.22 345 PKP    51 51.60  -6.3X
       1.0s    40.10nm
HFS   128.30 343 PKP    51 59.10   1.1
       1.0s    48.00nm
                 e      51 00.00
TBY   128.59 343 PKP    51 59.65   1.2
SJG   129.57  77 ePKP   52 01.50  -0.2
       1.0s    45.00nm
      Z  20s    23.40um          6.9Msz
                 e      55 18.00
KON   129.83 345 iPKP   52 02.50   1.6
KON   129.83 345 ePdiff48 52.00   2.9X
BER   130.18 348 ePdiff49 01.00  10.4X
KIS   130.32 322 iPKP   52 04.00   1.8
      Z  20s    30.00um          7.0Msz
      N  20s    24.00um
      E  20s    18.00um
                 iPP    54 20.00
KIS   130.32 322 ePdiff48 56.00   4.4X
IAS   131.01 323 ePKP   52 04.00   0.5
                 e      55 29.00
WAR   131.45 332 ePKP   52 02.00  -2.2
                 e      52 38.00
PPE   131.47 322 ePKP   52 08.00   3.6X
                 ePKS   55 38.00
LVV   131.51 328 iPKP   52 06.00   1.6
                 iPP    54 28.00
                 iPPP   57 14.00
                 iSKS   59 18.00
                 iSS    12 02.00
LVV   131.51 328 ePdiff49 00.00   3.2X
CFR   131.65 321 ePKP   52 12.00   7.2X
                 ePP    54 36.50
                 ePKS   55 39.50
                 eSKS   55 40.00
                 eSKKS  58 51.00
BAC   131.72 323 ePKP   52 13.00   8.1X
TLB   132.01 320 ePKP   52 08.00   2.5X
                 ePP    54 30.00
                 ePKS   55 34.00
                 eSKKS  55 34.50
VAO   132.14 137 PKP    52 07.10   0.6
                 e      52 09.80
VRI   132.18 322 ePKP   52 07.00   1.2
                 ePP    54 32.00
COP   132.32 340 iPKP   52 11.00   5.3X
      Z  22s    44.00um          7.1Msz
                 iPP    54 27.00
                 iPKS   55 40.00
COP   132.32 340 ePdiff49 02.00   1.8
GPA   132.33 314 ePKP   52 07.00   0.7
ISR   132.66 321 ePKP   52 10.00   3.2X
                 ePP    54 32.00
                 ePKS   55 37.00
                 eSKKS  55 37.50
MUD   132.69 343 ePKP   52 09.00   2.6X
MLR   132.84 322 ePKP   52 06.00  -1.3
                 ePP    54 34.00
                 ePKS   55 36.00
                 eSKKS  01 21.00
                 eSKS   04 50.00
ISK   132.90 315 ePKP   52 09.10   1.8
BMR   133.06 326 ePKP   52 11.00   3.6X
                 ePP    54 40.00
                 ePKS   55 40.00
                 eSKSP  04 51.00
UZH   133.13 327 iPKP   52 10.00   2.5X
      Z  20s    26.00um          6.9Msz
      E  20s    29.00um
                 iPPS   06 38.00
                 SS     12 25.00
                 SSS    17 20.00
UZH   133.13 327 ePdiff49 10.00   5.9X
BUC   133.30 321 ePKP   52 08.00   0.1
                 ePP    54 30.00
                 ePKS   55 40.00
KRA   133.41 330 ePKP   52 02.00  -6.0X
      Z  20s    67.00um          7.4Msz
      N  22s    45.00um
      E  22s    35.00um
                 ePP    54 40.00
                 e      55 38.00
KRA   133.41 330 ePdiff49 11.00   5.7X
MDB   133.42 324 ePKP   52 13.00   4.8X
CMP   133.51 322 ePKP   52 04.00  -4.4X
WIN   133.63 221 ePKP   52 15.10   5.6X
       1.0s    30.00nm
                 e      55 35.50
NIE   133.64 329 ePKP   51 58.00 -10.5X
                 i      52 14.00
                 i      01 23.00
SPC   133.83 329 ePKP   52 04.10  -5.0X
                 iPP    54 37.20
                 e      55 37.00
EDC   134.02 315 ePKP   52 08.00  -1.5
FDF   134.22  82 ePKP   52 03.50  -7.1X
DRA   134.29 322 ePKP   52 06.00  -3.8X
DEV   134.42 324 ePKP   52 09.00  -1.0
                 ePP    54 30.00
PVL   134.52 320 ePKP   52 14.00   3.7X
KSP   134.55 333 ePKP   52 02.00  -8.2X
                 i      52 15.50
                 i      55 43.50
                 i      01 23.50
                 i      04 55.60
RDJ   134.61 141 ePKP   52 08.00  -3.1X
RDJ   134.61 141 PKP    49 14.00 *****X
BRN   134.64 337 ePKP   52 11.00   0.8
HLW   134.66 300 ePKPc  52 14.00   3.0X
                 eS     54 52.00
DIM   134.79 318 ePKP   52 11.00   0.1
KDZ   135.14 318 ePKP   52 01.00 -10.6X
IZM   135.25 313 ePKP   52 04.80  -7.1X
EDU   135.30 351 ePKP   52 11.70   0.3
                 i      55 44.80
EZN   135.31 315 ePKP   52 00.00 -11.9X
TIM   135.46 325 ePKP   52 13.00   1.0
ELO   135.48 352 ePKP   52 12.30   0.5
                 e      55 45.70
BRG   135.53 335 ePKP   52 04.50  -7.5X
      Z  22s    37.00um          7.1Msz
      N  20s    22.00um
      E  20s    35.00um
                 i      52 13.80
BUD   135.56 328 ePKP   52 12.00  -0.1
CLL   135.58 336 ePKP   52 08.00  -4.1X
                 e      52 15.00
                 PP     54 50.00
                 SKP    55 46.00
                 PKS    55 58.00
                 e      59 16.00
EBH   135.67 352 ePKP   52 12.80   0.7
                 e      55 46.00
SSR   135.67 323 ePKP   52 05.00  -7.5X
                 e      52 18.00
SRO   135.70 329 ePKP   52 11.60  -0.8
      N  18s    27.90um
      E  18s    26.00um
                 iPP    54 56.00
EAB   135.84 352 ePKP   52 13.20   0.8
                 e      55 46.60
ESY   135.85 351 ePKP   52 13.00   0.6
                 i      55 46.70
PRA   135.93 334 iPKP   52 05.00  -7.8X
                 e      52 13.00
                 PP     55 06.00
PRU   135.94 334 ePKP   52 07.00  -5.8X
      Z  19s    28.30um          7.0Msz
      N  18s    23.80um
      E  18s    16.70um
                 e      52 15.50
                 PP     54 48.00
                 e      55 54.00
VTS   136.04 320 ePKP   52 08.00  -5.2X
ZST   136.05 330 ePKP   52 14.10   1.0
                 iPP    54 55.70
EAU   136.05 351 ePKP   52 13.30   0.5
EBL   136.06 351 ePKP   52 13.80   1.0
                 e      55 47.40
BAO   136.24 129 e(PKP)52 03.00 -11.5X
VIE   136.37 331 ePKPc  52 06.00  -7.7X
                 i      52 16.00
                 ePP    54 49.00
                 eSP    04 56.00
VKA   136.38 331 ePKP   52 12.00  -1.7
                 e      54 57.00
BEO   136.44 324 PKP    52 08.00  -5.9X
                 iPcP   52 22.60
                 iPP    54 50.00
                 i      55 51.00
                 i      01 17.20
                 iS     01 47.00
ESK   136.52 351 ePKP   52 16.00   2.3X
WIT   136.57 342 ePKP   52 16.50   2.6X
                 e      52 48.50
                 ePP    54 58.50
                 e      55 55.50
MOX   136.65 336 ePKP   52 05.00  -9.2X
      Z  20s    41.50um          7.2Msz
      N  19s    30.40um
                 e      52 16.50
                 ePP    54 59.00
                 e(PKS)55 50.00
                 ePKKP  01 28.00
                 (PKKS)04 10.00
DUR   136.78 349 PKP    53 10.50  56.3X
KHC   137.00 333 ePKP   52 07.00  -7.9X
       1.1s    62.50nm
                 e      52 18.00
                 e      54 47.90
                 e      55 50.90
THE   137.20 318 PKPd   52 04.00 -11.5X
                 ePP    55 02.00
                 eS     01 16.00
WTS   137.24 341 ePKP   52 13.00  -2.2
                 i      52 18.20
                 ePP    55 02.00
WET   137.29 334 ePKP   52 10.40  -5.1X
SKO   137.48 320 iPKPd  52 06.00 -10.0X
                 i      52 15.00
                 i      55 07.00
GRF   137.56 336 ePKP   52 10.00  -5.9X
      Z  20s    48.20um          7.2Msz
                 e      52 19.00
                 ePP    55 01.00
MOA   137.64 332 ePKP   52 09.00  -7.2X
                 e      52 19.00
                 PP     55 04.00
                 e      56 03.00
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05d 20h

DBN	137.64	342	ePKP	52	04.00	-11.9X	LSF	143.94	342	ePKP	52	22.20	-5.2X				iScS	02	01.20				
	Z 20s		22.50um			6.9Msz	MFF	144.11	344	ePKP	52	22.40	-5.2X	OMA	5.50	341	P	48	25.40	0.4			
			e	52	18.00		CVF	144.11	331	ePKP	52	21.30	-6.5X	TMS	5.51	355	P	48	25.10	-0.1			
			iPP	55	03.00		MEI	144.20	318	PKP	52	29.50	1.5				iS	49	25.50				
			iPKS	55	53.00		FRF	144.35	334	ePKP	52	22.40	-5.7X	TAT	5.57	356	Pc	48	24.50	-1.5			
			iSS	13	23.00		GIB	144.43	320	PKP-	52	28.50	-0.1				iS	49	25.50				
			iSSS	18	08.00		LRG	144.55	334	ePKP	52	23.20	-5.2X	KTJ	5.62	349	P	48	25.10	-1.6			
ATH	137.96	314	ePKP	52	04.00	-13.0X	LMR	144.59	334	ePKP	52	23.20	-5.3X	SHJ	5.64	317	P	48	27.10	0.1			
			ePP	55	04.00		RJF	144.79	341	ePKP	52	24.20	-4.6X				iS	49	34.70				
			eSS	13	00.00		CAF	144.95	340	ePKP	52	24.60	-4.6X				ScS	02	05.00				
BNS	138.00	340	ePKP	52	17.80	1.1	SOB3	145.01	128	ePKP	52	28.00	-2.1	AJI	5.72	349	P	48	26.80	-1.2			
OHR	138.35	320	ePKP	52	11.10	-6.6X				e	52	29.60					S	49	30.20				
			i	52	18.80					e	52	31.80		HMM	5.75	337	P	48	28.00	-0.3			
			i	55	27.30					e	52	39.40					eS	49	34.00				
ENN	138.58	341	ePKP	52	14.00	-3.7X	ERC	145.28	322	PKP	52	29.00	-0.8				ScS	02	04.50				
			i	52	22.00					e	01	42.50		KYS	5.77	358	eP	48	26.10	-2.5			
			ePP	55	10.50		LFF	145.37	341	ePKP	52	25.80	-4.0X	SHZ	5.79	344	P-	48	28.70	-0.2			
KBA	138.63	332	ePKP	52	11.00	-7.2X	LPO	145.45	341	ePKP	52	26.20	-3.8X	MIS	5.82	348	P-	48	28.60	-0.6			
			e	52	15.40		BNG	146.81	259	iPKPc	52	31.40	-1.7				S	49	35.10				
			e	55	00.00			1.0s		31.60nm				OWA	5.86	323	P-	48	30.20	0.4			
FUR	138.73	334	ePKP	52	11.30	-6.8X	BCAO	146.82	259	e(PKP)	52	31.00	-2.2				eS	49	37.00				
	Z 18s		38.00um			7.2Msz	PTO	151.15	351	iPKP	52	41.00	2.0				eScS	02	03.00				
LJU	138.80	330	ePKP	52	15.60	-2.7X	TOL	151.41	344	PKPc	52	45.00	5.5X	YOK	6.04	354	P	48	31.50	-0.6			
			ePP	55	12.00					iPP	55	38.00					eS	49	37.00				
			ePKS	55	50.50					iPKS	57	10.00		OYM	6.07	351	iPd	48	31.20	-1.4			
			ePPP	58	14.50					iSS	16	30.00		TSU	6.21	329	P-	48	35.70	1.3			
TIR	138.81	320	PKP	52	17.00	-1.4	ALI	151.63	337	iPKPd	52	42.00	2.2X				S	49	46.00				
UCC	139.03	342	ePKP	52	11.00	-7.5X	PDA	152.86	21	PKP	52	53.50	11.9X	FUN	6.22	348	P	48	35.00	0.4			
			PKP	52	19.50		YND	153.35	253	PKP+	52	47.90	4.8X	SRY	6.25	352	iPd	48	32.70	-2.2			
TRI	139.42	330	iPKP	52	19.30	-0.1	LIS	153.60	351	PKP	52	46.00	3.4X	TOK	6.28	355	P-	48	34.20	-1.1			
			iPP	55	16.20					i	53	07.60					iS	49	43.50				
			i	56	50.00					LR	54	24.00		WKYJ	6.30	321	P-	48	36.60	1.0			
			eSKS	59	22.00					ePP	56	30.00		CHO	6.30	3	P	48	33.20	-2.4			
WLF	139.45	340	ePKP	52	13.00	-6.3X				eSKS	59	33.00					iS	49	40.30				
			PP	55	20.00		CRT	153.76	341	ePKP	52	45.50	2.5X	IIDJ	6.40	341	P-	48	36.60	-0.4			
			PPS	07	38.00		ALR	154.71	339	iPKP	52	47.00	2.9X	KOF	6.42	346	P-	48	36.60	-0.6			
			SS	13	38.00					i	53	05.50					eS	49	49.00				
BUH	139.54	337	ePKP	52	15.50	-4.1X				i	53	15.50		NAG	6.43	334	P-	48	37.80	0.6			
DOU	139.58	342	PKP	52	13.00	-6.5X	TEC	154.99	335	iPKP	52	52.00	7.5X				S	49	48.30				
			PP	55	18.00		SFS	155.19	345	iPKPc	52	49.00	4.2X	IID	6.45	341	P-	48	37.60	0.0			
			SKP	56	00.00					i	53	16.00					S	49	47.80				
			PKKP	01	33.50					iPP	55	21.00		NAR	6.53	325	P	48	39.50	1.0			
			PPS	07	40.00					iSP	07	08.00		WKY	6.54	318	P-	48	40.30	1.5			
			SS	13	40.00					iSS	17	05.00					iS	50	00.00				
CDF	140.11	338	ePKP	52	13.80	-6.9X	TAM	158.80	301	PKP	53	17.00	27.1X	MRT	6.55	307	P-	48	40.60	1.7			
CTI	140.18	332	PKP	52	14.00	-6.9X	KIC	168.95	237	ePKP	53	02.60	3.5X				S	49	58.00				
			e	55	20.00					e	54	15.80		OSK	6.56	323	P-	48	40.20	1.2			
			e	01	35.00					PP	58	01.80					iS	49	59.30				
SLE	140.18	336	PKP	52	14.50	-6.3X	MBO	176.63	57	ePKP	53	03.80	1.9				ScS	02	05.30				
ECH	140.32	338	PKP	52	18.00	-3.0X				e	53	10.70		DDR	6.64	352	iPd	48	38.00	-2.2			
BAF	140.70	338	ePKP	52	17.00	-4.8X				e	53	25.10					e	49	52.80				
LLS	140.70	335	PKPc	52	19.00	-3.0X				e	54	08.90		OSA	6.68	323	P-	48	42.00	1.4			
BSF	140.78	338	ePKP	52	15.00	-6.9X				e	54	50.90					eS	50	04.00				
HAU	140.79	338	ePKP	52	15.20	-6.7X				e	58	38.90					eScS	02	07.00				
SAL	141.02	332	PKP	52	19.00	-3.3X				e	58	57.90		GIF	6.71	334	P	48	41.30	0.4			
			e	56	07.00					e	59	37.90					eS	49	57.00				
PRO	141.12	329	PKP	52	22.50	0.0				e	01	15.00		CHJJ	6.72	350	P	48	39.40	-1.7			
TMA	141.36	334	PKPc	52	13.50	-9.6X				e	01	34.90		KMG	6.77	353	P	48	39.80	-1.9			
NEC	141.41	337	PKP	52	24.50	1.5				e	02	13.00					iS	49	52.80				
MMK	141.78	335	PKP	52	13.40	-10.6X				e	03	10.90		SUM	6.77	318	P-	48	43.10	1.3			
DUI	141.83	325	PKP	52	22.00	-1.9				e	09	27.40					eS	50	00.00				
PCN	141.84	333	PKP	52	30.00	6.3X	S.D. = 1.4 on 257 of 526 obs.							KAKJ	6.77	358	P-	48	38.50	-3.3X			
AQU	141.95	326	PKP	52	21.50	-2.7X								TSK	6.78	358	eP	48	38.20	-3.7X			
PRG	141.96	328	PKP	52	24.00	-0.1	SEP 06, 1982 01h 47m 03.85± 0.20s							TKS	6.79	315	P-	48	43.80	1.8			
DIX	141.98	336	PKP	52	19.40	-5.0X	29.414 N ± 1.4km 140.397 E ± 1.5km										iS	50	04.70				
FIR	142.05	330	PKP	52	18.00	-6.2X	DEPTH = 185.1 ± 1.7 km							HIK	6.82	330	P	48	43.20	0.9			
			iPP	55	40.00		6.5mb (97 obs.)										eS	50	02.00				
			iSKS	59	03.00		SOUTH OF HONSHU, JAPAN (211)										eScS	02	07.00				
PRT	142.05	330	PKP	52	24.00	-0.2	Felt (III JMA) ot Toteyama ond							KYO	6.84	326	P-	48	43.90	1.3			
			i	52	31.60		Fukushimo. Felt (II JMA) on										S	50	03.20				
ORO	142.12	335	PKP	52	21.50	-2.9X	Chichi-jima, Hachijo-jimo ond										eScS	02	05.00				
SSC	142.28	345	ePKP	52	18.00	-6.4X	Oshimo ond ot Yokohoma, Choshi,							KOB	6.87	321	P-	48	44.80	1.7			
LOR	142.29	340	ePKP	52	18.60	-6 0X	Tokyo, Kumagaya, Mito.										eS	50	03.00				
MNS	142.32	327	PKP	52	18.00	-6.7X	Utsunomiyo, Onahama, Kakioka,										eScS	02	05.00				
			i	56	04.50		Sendoi, Morioka, Miyoko ond							MIT	6.95	0	P	48	42.00	-2.0			
LBF	142.50	340	ePKP	52	19.70	-5.3X	Ofunoto.										iS	49	55.00				
SSF	142.59	340	ePKP	52	19.80	-5.2X								MAE	7.06	351	P	48	43.40	-2.1			
GRR	142.65	345	ePKP	52	19.00	-6.1X	CBI	2.80	145	P-	47	43.30	-7.4X				iS	50	01.20				
RMP	142.70	326	iPKP	52	20.00	-5.4X				S	48	18.50		TKSJ	7.07	312	P	48	47.50	1.8			
			iPP	55	28.00		HJJ	3.71	352	P+	48	01.00	-1.0	KAZ	7.08	348	eP	48	46.00	0.1			
			iPS	05	48.00					iS	48	43.90					eS	50	12.00				
SMF	142.84	340	ePKP	52	20.20	-5.3X	TK01	4.95	332	P	48	18 20	0.5	UTS	7.12	357	P	48	42.70	-3.7X			
AVF	142.88	340	ePKP	52	20.20	-5.3X	TK02	5.05	334	P-	48	19.80	0.8				S	49	59.70				
LPF	143.02	345	ePKP	52	20.60	-5.1X	TK03	5.17	337	P-	48	21.40	0.8				eScS	02	05.00				
MZF	143.64	340	ePKP	52	21.30	-5.6X	TK04	5.40	337	P	48	24 40	0.7	ASZ	7.14	299	P-	48	48.30	1.7			
TCF	143.69	341	ePKP	52	21.40	-5.6X	OSH	5.40	351	P-	48	23.10	-0.7				S	50	13.00				
PYM	143.90	340	PKPd	52	25.00	-2.4X				S	49	18.50		KOC	7.17	307	P-	48	49.30	2.3			

06d 01h

			S	50	12.40					eS	50	58.00		SSE	16.69	281	iPd	50	48.00	-0.4
			eScS	02	08.00					eScS	02	08.00			N 17s	197.00um				
HIM	7.25	320	P-	48	49.30	1.2	SAI	9.01	321	P	49	11.00	-0.2				eS	53	58.00	
			iS	50	15.50					S	50	57.20		KUR	16.86	18	Pc	50	52.00	1.6
TKM	7.28	314	P-	48	50.40	1.9	ISN	9.02	5	P+	49	07.70	-3.7X				iS	53	56.00	
			iS	50	17.00					iS	50	39.00		ANP	17.30	260	Pd	50	57.00	1.2
			eScS	02	07.00					eScS	02	08.00					S	54	06.00	
MAT	7.34	346	P-	48	47.80	-1.6	SHNJ	9.19	303	P-	49	15.50	1.8	TATO	17.39	260	iPd	50	56.50	-0.2
			S	50	06.00		SHN	9.24	302	P	49	16.30	2.1	MDJ	17.43	333	Pd	50	54.30	-2.7
MAI	7.38	326	P	48	50.60	0.8				S	51	04.90					S	54	00.00	
			eS	50	18.00					ScS	02	08.70					ScP	58	48.50	
MZH	7.39	326	P	48	50.60	0.6	SAG	9.44	296	P-	49	19.50	2.7				ScS	02	28.00	
			eS	50	18.00					S	51	05.20		HWA	17.63	256	Pd	50	59.70	0.4
NGN	7.46	346	P-	48	49.70	-1.2				eScS	02	10.00					S	54	20.00	
			eS	50	08.20		FKK	9.51	298	P-	49	20.30	2.6	YSS	17.67	5	Pd	50	59.00	-0.6
FUK	7.49	333	P-	48	52.50	1.1				S	51	13.20					iS	54	15.40	
			S	50	15.60					ScS	02	10.50		TCU	18.36	258	P	51	06.90	-0.1
ONA	7.52	3	P	48	48.60	-3.1X	NZJ	9.61	266	P	49	22.00	2.9				S	54	30.30	
			iS	50	06.80					eS	51	13.00		TTN	18.51	253	P	51	09.50	0.9
			ScS	02	04.00		NGS	9.61	293	P	49	21.70	2.6	CN2	18.67	324	Pd	51	08.00	-2.1
OKA	7.60	315	P	48	54.40	1.6				S	51	10.60					S	54	25.00	
			S	50	25.20		OFU	9.69	6	P+	49	16.00	-4.1X	NJ2	18.70	283	Pd	51	10.00	-0.6
			eScS	02	08.00					iS	50	55.60					sP	51	55.00	
TYK	7.70	324	P-	48	55.10	0.9				ScS	02	09.20					iS	54	30.00	
			iS	50	24.30		MIZ	9.71	3	iPd	49	17.80	-2.6				ScP	58	51.00	
			eScS	02	08.00		MRK	10.28	3	P	49	25.00	-2.8				ScS	02	31.00	
UWA	7.71	302	P-	48	56.00	1.8				S	51	10.40		HEN	19.17	252	eP	51	19.00	3.6X
TOY	7.75	341	P	48	55.00	0.3	AKI	10.28	359	P	49	25.00	-2.8				S	54	20.30	
			(S)	50	21.00					eS	51	13.00		QZH	19.90	262	Pd	51	22.30	-0.5
KAN	7.78	337	P-	48	55.30	0.2	MIY	10.29	7	P	49	26.00	-1.9				sP	52	10.00	
			eS	50	15.00					iS	51	08.80					ScS	02	38.00	
MTY	7.85	306	P-	48	58.70	2.6				eScS	02	12.00		CVP	20.60	240	ePd	51	30.00	0.1
			iS	50	31.00		FKJ	10.44	291	P-	49	31.70	1.8				eS	51	40.00	
			eScS	02	07.00					eS	51	37.00		TIA	20.68	295	Pd	51	29.00	-1.6
TKD	7.88	347	P	48	54.50	-1.9	IZU	10.58	300	P-	49	34.00	2.3				PP	51	58.50	
			S	50	20.50					eS	51	29.00					S	55	04.00	
NIIJ	7.89	352	P	48	53.10	-3.5X				ScS	02	14.50					ScP	58	55.20	
TOTJ	7.96	321	P	48	59.50	2.0	HAC	11.12	4	P	49	35.00	-3.8X				ScS	02	37.00	
TOT	8.03	321	P	48	58.50	0.0				eS	51	28.00		SZP	21.73	241	eP	51	40.50	-0.5
			S	50	33.30					eScS	02	12.00					eS	51	46.00	
			eScS	02	09.00		NGO	11.33	259	P	49	43.50	2.0				eS	55	30.50	
MYZ	8.12	290	P	49	02.20	2.6				S	51	55.00		BAG	22.33	239	Pd	51	46.00	-1.1
			eS	50	45.00		AOM	11.38	1	P	49	41.30	-0.8	LGP	22.38	227	iPc	51	48.50	1.2
			eScS	02	10.00					S	51	37.00					eS	52	23.00	
NOB	8.12	295	P	49	00.80	1.2				ScS	02	14.30		BJI	22.49	305	Pd	51	47.00	-1.2
			S	50	44.80		NAH	11.70	257	P	49	47.60	1.4				pP	52	18.00	157kmX
TAJ	8.25	281	P-	49	03.80	2.5				iS	52	03.50					sP	52	36.00	
			S	50	44.40		HAK	12.38	1	P	49	51.60	-3.2X				eS	55	41.00	
			ScS	02	10.10					S	52	02.90					SS	56	40.00	
SHK	8.31	310	iPd	49	03.30	1.2				eScS	02	15.00					ScP	58	55.00	
FKS	8.32	0	P	48	58.00	-4.2X	KMJ	12.41	259	P	49	56.00	0.7				ScS	02	41.00	
			iS	50	29.00					iS	52	19.00		WHN	22.58	279	P	51	49.50	0.3
			ScS	02	06.70		URA	12.86	8	P	49	59.80	-1.2				pP	52	20.00	154kmX
HIR	8.37	308	P	49	04.70	1.8				eS	52	13.00					S	55	38.50	
			S	50	45.00					eScS	02	19.00					SS	56	36.00	
			ScS	02	07.00		MRRJ	13.00	2	P	49	59.00	-3.7X				ScS	02	44.00	
KAGJ	8.41	284	P	49	05.50	2.1	HOOJ	13.15	9	P	50	02.90	-1.7	MAN	23.10	235	eP	52	53.00	58.6X
OIT	8.41	299	P	49	06.40	3.0X	SUT	13.35	359	P	50	06.10	-1.0	QCP	23.12	235	P	51	46.00	-8.5X
			eS	50	56.00					S	52	28.80		SKR	24.30	25	eP	52	05.00	-0.4
WAJ	8.47	341	P	49	03.30	-0.9	SAP	13.64	3	P	50	07.80	-3.0				epP	52	36.00	153kmX
			eS	50	38.00					eS	52	33.00					iS	56	12.00	
NII	8.55	353	P-	49	04.60	-0.6				eScS	02	17.00		HKC	24.61	259	P	52	08.00	-0.5
			eS	50	35.00		OBI	13.67	9	P	50	10.10	-1.1	TIY	24.66	297	Pd	52	08.00	-1.0
MTS	8.64	316	P	49	08.10	1.8				S	52	32.00					sP	52	59.50	
			iS	50	52.30		KUS	13.91	12	P	50	12.10	-2.1				S	56	14.00	
ASJ	8.70	296	P-	49	09.50	2.1				S	52	35.60		GZH	25.04	262	Pd	52	10.60	-1.9
			S	50	54.10		KUSJ	14.09	13	P	50	14.60	-1.8				pP	52	44.60	169kmX
YAMJ	8.74	358	ePc	49	06.00	-1.7	MYK	14.23	255	P	50	20.50	2.3				sP	53	01.60	
			S	50	37.50					eS	53	06.20					iS	56	19.60	
			ScS	02	06.50		ASA	14.41	6	P	50	18.00	-2.5				ScP	59	08.60	
KAG	8.76	287	P-	49	10.50	2.5				S	52	49.50		MCO	25.20	260	iP	52	14.50	0.5
			S	50	50.40		NEM	14.50	15	P	50	19.80	-1.7	CGP	25.54	218	ePd	53	15.60	58.4X
			ScS	02	10.00					iS	52	50.00		HHC	26.08	304	Pd	52	20.50	-1.6
AIK	8.77	349	P	49	04.90	-3.2X	RMJ	14.54	4	P	50	20.00	-2.1				PP	53	08.00	
			eS	50	37.00					S	52	52.50					S	56	38.00	
YAM	8.82	360	P+	49	06.00	-2.7	ASAJ	14.78	6	P	50	22.70	-2.4	DAV	26.23	215	Pc	52	23.00	-0.5
			S	50	37.50		ABJ	14.90	11	P	50	25.80	-0.7	XAN	27.11	288	Pd	52	30.00	-1.4
			ScS	02	06.50					eS	53	00.00					PP	53	21.00	
SEN	8.83	3	P-	49	06.00	-2.9				eScS	02	21.00					PcP	55	53.00	
			S	50	36.20		ISI	15.34	255	P	50	35.70	3.7X				S	56	53.00	
			ScS	02	07.00					S	53	35.00					PcS	59	31.00	
MVI	8.88	248	P	49	08.00	-1.5	WAK	16.01	3	P	50	40.00	-0.1				ScS	03	05.00	
			S	50	48.60					eS	53	31.00		PET	27.13	25	Pd	52	32.00	0.7
HMD	8.92	310	P	49	12.60	2.5	PJG	16.28	164	eP	50	42.20	-1.5				pP	53	06.00	165kmX
			S	50	52.00		GUA	16.34	164	eP	50	42.80	-1.6				iS	56	57.00	
			eScS	02	06.00			0.8s	1580.00nm				6.5mb	BTO	27.14	302	Pd	52	30.00	-1.7
KUM	8.97	295	P	49	13.50	2.8				eS	53	36.00					pP	52	53.00	105kmX

06d 01h

PPR	28.16	230	ePd	52	41.20	0.3				e	57	18.00		VAR	50.70	280	P+	55	45.00	-1.6
			eS	53	16.50					eS	59	54.00		PRZ	50.82	303	Pc	55	46.50	-1.0
TUP	29.07	335	Pd	52	47.20	-1.4				e	01	23.00					eS	02	53.00	
GYA	29.89	273	Pd	52	55.00	-1.3				e	02	14.00		TLG	51.47	304	Pd	55	52.00	-0.3
			sP	53	47.00					e	04	03.50		AAA	51.79	304	Pd	55	54.00	-0.7
			PP	54	03.00		BDT	39.70	262 iPd		54	13.00	-6.6X	SVW	52.19	34	P	55	59.00	1.6
			S	57	39.00			0.8s	514.00nm			6.2mb		TTA	52.26	31	eP	55	58.70	0.8
LZH	31.32	292	iPd-	53	07.00	-1.8	MKS	39.87	214 iPc		54	20.70	-0.3	NRN	52.73	302	eP	56	01.00	-0.9
	6.0s	*******	nm			7.0mb X		0.6s	258.00nm			6.0mb		KSH	53.06	299	Pd	56	04.00	-0.1
N	13s	34.40	um				ESA	40.20	164 iPc		54	22.50	-1.1				sP	56	55.00	
			PP	53	48.00		UER	40.72	316 Pc		54	26.50	-1.1				PcP	57	12.00	
			SP	54	11.00		KHM	41.04	276 eP		54	29.00	-1.8	ASPA	53.14	187	Pd	56	03.00	-1.6
			PP	54	27.00		KUPT	42.54	205 eP		54	41.20	-1.5				eS	03	17.00	
			iPcP	55	58.00					eS	55	33.70		VIS	53.16	271	P-	56	01.00	-4.0X
			S	58	02.00		LSA	42.57	283 Pd		54	43.20	-0.4	DDI	53.44	288	P	56	15.30	8.3X
			ScP	59	04.50					sP	55	35.20		KDC	53.53	38	eP	56	07.20	0.1
			PcS	59	29.00					PP	56	24.20		FRU	53.54	303	Pd	56	06.50	-1.0
			SS	00	27.00					PcS	00	27.20					isP	56	57.40	
			iScS	03	23.00					S	00	52.20					eS	03	30.00	
MGD	31.48	10	Pd	53	09.20	-0.5				ScS	04	25.20		IMA	53.75	28	eP	56	09.70	0.8
			ipP	53	44.00	165kmX	TIK	42.74	355 Pd		54	44.50	0.7	MBL	54.04	204	eP	56	10.00	-1.3
			isP	53	56.00					sP	55	37.00		PVC	54.07	147	Pc	56	12.50	1.0
			iS	57	58.00					eS	00	56.00					i	00	56.20	
			isS	58	54.00					esS	01	57.00					iS	03	34.70	
MNI	31.52	211	eP	53	10.20	-0.2	HNR	42.97	151 eP		54	46.00	-0.3	NDI	54.61	286	P-	56	14.00	-1.4
	0.6s	761.00	nm			6.6mb	NKI	43.69	43 eP		54	51.80	0.1				ipP	57	06.00	234kmX
			eS	58	01.50		WMQ	43.96	304 Pd		54	53.40	-0.8				ePP	58	28.50	
CD2	31.63	282	Pd	53	10.30	-1.1				sP	55	46.00					iS	03	41.50	
			sP	54	03.00					PP	56	37.00					iSS	05	16.50	
			S	58	06.00					PcP	56	40.00		KOU	54.76	152	Pc	56	15.90	-0.5
			sS	59	07.00					ScP	00	13.50					i	00	51.90	
JAY	31.75	179	ePc	53	11.50	-1.0				S	01	10.00					iS	03	44.20	
BGV	31.83	263	P	53	24.00	10.8X				SS	04	20.00					P'P'	26	25.60	
MOM	31.99	167	eP	53	11.00	-3.5X	AGT	44.02	275 P		54	58.50	3.8X	PMR	55.35	33	eP	56	20.00	-0.3
			e(S)	59	28.00		KGM	44.54	239 ePd		54	59.40	0.4	Z	20s	16.00	um			6.1Msz
KKM	32.58	229	ePd	53	19.80	0.0		1.3s	1530.00	nm		6.4mb		ANR	55.55	301	Pd	56	21.00	-1.1
	0.5s	150.00	nm			5.9mb				eS	00	17.00		HON	55.69	83	P	56	24.00	0.7
			e	56	25.30		IPM	44.67	244 iPd		55	00.10	0.1	COL	56.07	29	iPd	56	25.80	0.3
			e	58	25.20					e	00	19.10					iS	04	03.00	
			e	03	23.50					e	01	26.50		FBA	56.07	29	P	56	27.00	1.5
KVG	33.33	161	eP	53	23.00	-3.1X	ILT	45.43	20 Pd		55	05.80	0.5	WBN	56.80	195	eP	56	30.00	-1.0
			eS	59	28.00					ipP	55	40.50	155kmX	KHO	56.88	298	Pd	56	30.00	-1.7
YAK	33.36	351	Pd	53	24.30	-1.6				isP	55	53.00		NAU	56.95	208	eP	56	31.00	-1.0
			iS	58	24.50					iS	01	31.00		NOU	57.22	151	Pc	56	35.50	1.6
TBL	33.62	172	eP	53	29.50	0.9				isS	02	34.00					i	01	08.60	
KMI	33.65	272	iPd-	53	28.00	-1.2	TRT	45.56	220 iPc		55	05.90	-1.0				iS	04	16.50	
	5.0s	27.00	nm			4.2mb X		0.9s	158.00	nm		5.5mb					i	06	13.00	
N	19s	106.00	um							eS	57	06.50					P'P'	26	30.00	
			PP	54	20.00		ELT	45.75	317 Pd		55	05.70	-2.3	HYB	57.42	273	Pd-	56	33.80	-1.8
			SP	54	54.00					iS	01	32.00					epP	57	14.50	177kmX
			PP	54	58.00		KNA	46.28	196 eP		55	11.00	-1.6				ePcP	57	28.50	
			iS	58	38.00					eS	01	41.00					esP	57	37.00	
BOD	33.75	335	Pd	53	30.00	0.6	UKR	46.38	314 P		55	10.80	-2.3				ePP	58	46.00	
SMY	33.98	37	eP	53	33.10	1.8	CAL	46.96	274 P		55	21.00	3.0X				ePPP	00	11.00	
SEY	34.39	10	Pd	53	35.00	0.2	TSI	47.27	245 ePd		55	20.00	-0.5				eScP	01	11.00	
			esP	54	22.70			0.7s	947.00	nm		6.4mb					eS	04	14.00	
			iS	58	46.70					eS	02	05.00					eSP	04	26.00	
TZZ	34.49	179	eP	53	33.00	-3.2X	PSI	47.48	244 ePd		55	21.20	-0.9				esS	05	25.00	
GTA	34.68	298	Pd	53	35.80	-1.9		0.8s	51.80	nm		5.1mb	X				eScS	06	04.00	
			PP	54	54.00		NVS	47.73	319 Pd		55	21.70	-1.8				eSS	08	16.00	
			iS	58	54.00		LEM	47.88	226 iPd		55	25.00	-0.3				eP'P'	26	18.00	
			ScP	59	38 00					iS	01	57.00		GAR	57.46	300	P	56	33.90	-1.7
ZAK	34.84	317	Pd	53	37.60	-1.1	PPI	48.36	239 eP		55	28.00	-0.8				eS	04	22.20	
			esP	54	27.00			1.0s	827.00	nm		6.2mb		TAS	57.71	303	Pd	56	36.00	-1.2
			eS	58	58.00		SDN	48.93	41 eP		55	32.60	-0.1	BRS	57.71	167	P	56	35.00	-2.3
			esS	59	57.60		SEM	49.20	313 Pd		55	32.80	-2.1				i	56	37.40	
MDG	34.85	171	eP	53	39.00	-0.1				eS	02	24.20					ePP	57	09.00	
			eS	58	54.00		WB2	49.41	187 P		55	34.20	-2.6				eS	04	12.00	
AAI	34.93	202	ePd	53	39.70	-0.1				iScP	00	35.00		KUL	58.16	299	Pd	56	39.00	-1.4
			e(S)	54	59.00					iS	02	21.00					iS	04	31.00	
IRK	35.04	321	ePc	53	38.00	-2.4				iScS	05	15.00		DSH	58.74	299	Pd	56	42.80	-1.6
			esP	54	29.00					SKKP	25	47.00					iS	04	37.80	
			eS	59	00.00		WRA	49.42	188 Pc		55	34.40	-2.4	NDF	58.97	138	eP	56	48.00	1.9
RAB	35.27	159	iPc+	53	40.00	-2.7		0.8s	298.00	nm		5.9mb					e	56	53.00	
LAT	36.42	169	eP	53	51.00	-1.2	CTA	49.54	173 P		55	35.80	-1.9				pP	57	22.00	143kmX
MOY	36.68	319	Pd	53	53.00	-1.1				ipP	56	15.00	175kmX	MEK	59.52	203	eP	56	48.00	-1.8
ADK	38.79	42	eP	54	11.30	-0.4				iScP	00	33.00		VUN	59.76	137	iPd	56	52.40	0.9
PCT	38.80	256	eP	54	13.00	0.8				iS	02	24.00			1.0s	392.00	nm			6.2mb
	1.0s	328.00	nm			5.9mb				iScS	05	11.00		SAM	59.80	301	Pd	56	50.00	-1.6
LMG	38.82	168	eP	54	10.00	-2.6	CTAO	49.54	173 eP		55	35.50	-2.2				ipP	57	26.00	152kmX
CHG	39.10	264	iPd	54	14.00	-0.7				e	56	09.00					iS	04	47.90	
	1.2s	359.00	nm			5.9mb	NRI	49.77	338 Pd		55	37.50	-1.4	SVA	59.85	137	iPc	56	54.30	2.2
			eS	03	16.00					iS	02	31.00		KHE	59.93	349	Pd	56	52.00	0.0
PMG	39.14	169	ePc	54	12.00	-3.0X	ISO	49.84	181 eP		55	38.00	-2.0				iS	04	54.00	
			eS	59	51.00					e	56	11.00		GBA	60.01	269	P	56	53.00	-0.4
KOI	39.46	278	P	54	17.00	-0.7				i	00	37.00		SVE	60.44	322	Pd	56	55.00	-0.7
			ePP	55	42.00					e	02	31.00					iS	04	58.00	

06d 01h

COO	60.65	169	eP	56	57.00	-0.5	TAU	72.25	175	Pd	58	12.00	1.8					ipP	59	16.80	180kmX		
			e	57	36.00					ePP	58	45.00						isP	59	42.40			
			e	01	26.00					eS	07	16.00						iPP	01	21.00			
			e	05	06.00		ONE	72.30	152	iP	58	16.20	5.5X					epPP	02	16.00			
STK	60.97	179	Pc	56	56.80	-2.7				pP	58	56.00	164kmX					ePPP	03	16.00			
			e	04	46.00		PGC	72.32	44	eP	58	12.00	1.2					eS	08	00.00			
			e	26	15.00		MAK	72.60	310	P	58	12.00	-0.5					ePS	09	00.00			
			e	29	42.00		TRO	72.65	342	iP	58	12.40	0.0					eSS	13	00.00			
POO	61.06	276	P-	57	00.50	-0.1	TEH	72.76	302	eP	58	15.00	1.2					e	25	52.00			
			PP	59	14.50		MOS	72.91	325	Pd	58	13.00	-1.1					e	28	54.00			
			PPP	00	04.00					isP	59	03.00		WDC	76.41	51	iPd	58	35.60	1.2			
			S	05	12.50					iS	07	27.00		RAR	76.50	124	P	58	39.00	3.9X			
			SS	09	21.50		KJF	73.02	335	iPd-	58	14.80	0.2					S	08	16.00			
KOD	61.51	266	Pd	57	03.00	-0.9		Z 20s		16.40um			6.3Msz	TRZ	76.53	152	iP	58	36.60	1.8			
			PcP	57	51.00					iPP	58	59.00						pP	59	11.00	138kmX		
			PP	59	15.00					iSP	59	09.20		RMT	76.63	52	eP	58	37.50	2.0			
			PPP	00	48.00					ePP	01	00.00		RXF	77.12	41	iPd	58	39.20	0.9			
			PS	05	16.00					ePPP	02	44.00		NWRM	77.14	53	eP	58	39.20	0.8			
			PPS	05	32.00					eS	07	24.00		MIN	77.16	51	iP	58	39.20	0.5			
			ScS	06	50.00					eScS	08	00.00		LHD	77.17	42	iPd	58	40.00	1.4			
			SS	09	16.00					eSS	09	00.00		SNZO	77.20	154	e(P)	58	39.00	0.6			
			SSS	10	32.00		DAG	73.28	355	iPd	58	16.50	0.6	WEL	77.20	154	P	58	36.00	-2.5			
			LQ	11	49.00			2.0s		765.00nm			6.1mb					pP	59	14.00	154kmX		
			LR	14	40.00					iS	07	32.00						PP	01	05.00			
INK	61.60	25	iPd	57	03.30	-0.1	KIR	73.34	340	iP	58	16.70	0.2					S	08	10.00			
	0.4s	201.00nm			6.3mb		GRO	73.63	311	Pd	58	18.00	-0.5					LQ	15	00.00			
ARU	61.62	321	Pd	57	02.20	-1.4				isP	59	10.00						LR	23	00.00			
			epP	57	37.00	146kmX				iS	07	40.00		LDM	77.22	41	iPd	58	40.00	1.3			
			eS	05	12.00		OBN	73.69	325	Pd	58	18.40	-0.2	SOC	77.40	313	Pd	58	39.50	-0.2			
KLG	62.52	198	Pd	57	07.60	-2.3				iS	07	34.00						iS	08	16.00			
			eS	05	20.00		COR	74.13	48	iPd	58	20.00	-1.4	CLX	77.45	42	iPd	58	42.20	2.0			
TRD	62.78	264	P	57	08.00	-3.9X	PNT	74.31	42	iPd	58	23.40	1.0	ORV	77.59	52	iP	58	41.70	0.8			
SIT	62.82	38	eP	57	13.20	1.7		1.2s		1040.00nm			6.4mb	BKS	77.87	53	ePd	58	43.50	1.1			
RIV	63.72	170	eP	57	18.00	0.4	KRV	74.34	308	Pc	58	21.00	-1.7		0.6s		860.00nm			6.7mb			
YOU	63.80	173	P	57	16.10	-2.1				iS	07	42.00			Z 20s		26.00um			6.6Msz			
BAL	63.81	203	eP	57	16.00	-2.3	PUL	74.35	330	Pd	58	23.00	0.7		N 20s		16.00um						
ADE	64.05	182	P	57	18.50	-1.3				isP	59	16.00			E 20s		22.00um						
MBC	64.07	15	iPd	57	19.70	0.2				iS	07	44.00						iPcP	58	55.50			
	0.9s	381.00nm			6.3mb		SUF	74.42	334	P	58	22.80	0.1					iPP	59	35.10			
KLB	64.37	201	eP	57	20.00	-1.9				ePKKP	17	34.00						eSP	00	07.00			
CAN	64.90	172	P	57	24.90	-0.3	KRP	74.62	152	iPc	58	24.10	0.0					iS	08	24.40			
			e	58	05.00					PcP	58	27.00						eSKS	08	38.60			
MUN	65.24	203	eP	57	27.00	-0.4				pP	59	01.00	150kmX	MSZ	77.89	160	iP	58	40.80	-1.4			
NWAO	65.77	201	Pc	57	29.70	-1.2				PP	01	38.00						PcP	58	44.00			
BFD	66.27	178	eP	57	33.00	-0.9				S	07	51.00						i	58	49.00			
MHI	66.46	300	Pd-	57	34.80	-0.7				e	08	23.00						pP	59	28.00	195kmX		
			eS	06	16.00					e	08	32.00						ScS	08	42.00			
ASH	66.76	302	Pc	57	36.50	-0.7				e	10	23.00		RHP	78.04	159	P	58	44.00	0.8			
TOO	66.80	176	eP	57	36.00	-1.3	GRS	74.83	307	Pd	58	25.20	-0.5					pP	59	19.00	140kmX		
			eS	06	14.00					epP	58	59.60	138kmX					S	08	13.00			
VAN	66.94	302	Pd	57	36.60	-1.8				iS	07	49.40						ScS	08	27.00			
			isP	58	32.00		VHEM	74.85	46	iPd	58	27.20	1.5	ANN	78.28	315	P	58	43.50	-1.0			
			iS	06	20.00		PYA	75.05	312	Pd	58	26.00	-0.7					iS	08	22.00			
ALE	67.76	3	ePd	57	43.10	0.3				sP	59	16 40		THP	78.38	159	P	58	44.00	-1.0			
	1.0s	738.00nm			6.4mb					iS	07	50.40						PcP	58	47.00			
KAT	67.86	303	Pd	57	43.50	-0.5	WTZ	75.28	151	iP	58	26.70	-1.1					pP	59	21.00	149kmX		
			esP	58	35.00					PcP	58	30.00						PP	01	18.00			
TGI	67.87	296	ePd	57	42.40	-2.1				pP	59	03 00	147kmX					e	07	39.00			
NUE	67.96	129	eP	57	46.00	1.1				e	01	17.00						ScS	08	18.00			
			pP	58	22.00	149kmX	FHC	75.33	51	iP	58	30.40	2.0					e	08	33.00			
KBS	68.02	351	iP	57	45.10	0.7	TAB	75.46	306	iPd	58	29.00	-0.3					e	09	11.00			
			iS	06	34.10		ECZ	75.71	150	iP	58	32.30	2.0	MSL	78.48	305	iPc	58	46.50	0.7			
PHC	69.14	43	eP	57	53.00	1.3				pP	59	05.00	130kmX					iPcP	58	58.50			
	1.1s	278.00nm			5.9mb		BKR	75.77	310	Pd	58	31.00	0.0					e	59	06.50			
APA	69.34	337	Pd	57	51.80	-0.9				iS	07	59.80						e	01	31.50			
			ipP	58	25.00	135kmX	ERE	75.80	308	Pd	58	31.00	-0.1					e	02	51.00			
			isP	58	40.00					isP	59	23.00						eS	08	25.50			
			iS	06	47.00					iS	08	02.00						ePS	09	34.50			
KEV	70.28	340	Pd-	57	58.50	0.2	EDM	75.90	37	iPd	58	32.60	1.2					e	10	18.00			
Z	18s	19.20um			6.4Msz			1.0s		905.00nm			6.5mb	MHC	78.53	54	iPd	58	47.30	1.0			
			ipP	58	42.50	184kmX	UME	75.91	337	Pd	58	31.00	-0.1	SES	78.60	38	iPd	58	46.60	0.3			
			isP	59	07.50					iS	07	59.00			1.2s		1870.00nm			6.7mb			
			ePPP	02	20.00					i	29	00.70		ARN	78.61	54	eP	58	47.00	0.4			
			eS	06	56.00		LEN	75.98	309	Pd	58	33.00	0.8	KKZ	78.66	156	iP	58	42.20	-4.2X			
			eScS	07	40.00					iS	08	04.00						pP	59	15.00	130kmX		
			esS	08	12.00		VPIM	76.01	48	iPd	58	34.00	1.7	SAO	78.94	54	eP	58	50.00	1.7			
CRZ	70.45	152	iP	58	02.50	2.8	NEW	76.26	42	iPd	58	34.90	1.4	JAS	79.09	53	iPd	58	50.10	1.0			
			pP	58	45.00	177kmX				e	59	20.00		UPP	79.43	334	Pd	58	50.20	-0.2			
			sP	59	39.00		COB	76.27	155	iP	58	32.60	-0.8					iS	08	36.00			
RAO	70.62	142	P	58	02.00	1.1				PcP	58	36.00						i	28	50.30			
			pP	58	42.00	166kmX				pP	59	10.00	151kmX	SCO	79.59	354	iP	58	52.30	1.2			
YKA	70.86	28	P	58	03.10	1.2				PP	02	03.00		PRI	79.79	54	iPd	58	54.20	1.2			
YKC	70.92	28	ePd	58	02.50	0.2				ScS	08	09.00		AMM	79.81	43	ePd	58	53.80	0.7			
	0.7s	421.00nm			6.3mb					e	08	47.00		BMN	80.05	49	eP	58	55.50	1.2			
SOD	71.67	338	P	58	07.00	0.3	GNZ	76.27	151	P	58	36.00	2.6		1.0s		225.00nm			5.9mb			
BAK	71.97	307	P	58	10.00	1.1				e	59	19.00		FRI	80.06	53	iP	58	52.70	-1.5			
			S	07	24.00		NUR	76.29	333	Pd-	58	33.00	-0.3	BUT	80.08	43	iPd	58	56.00	1.5			

06d 01h

HRY	80.14	42	iPd	58	56.10	1.4	COP	84.34	333	iPd-	59	16.10	0.3				SKPP'	28	25.00				
SIM	80.19	316	Pd	58	54.00	-0.8		Z 19s		14.00um			6.4Msz				e	31	55.00				
			eS	08	46.00					i	02	18.00					RRPKP	46	03.00				
LRM	80.25	43	iPd	58	56.80	1.4				iPP	02	35.00		KDZ	87.33	317	Pd	59	31.00	0.1			
APO	80.31	336	P	58	55.22	0.1				iS	09	23.00		SSR	87.37	321	P	59	31.00	0.0			
MNV	80.42	51	iP	58	58.00	1.6				isS	10	42.00		PRA	87.51	329	iPd	59	31.00	-0.5			
SLL	80.57	336	P	58	56.78	0.3				isSS	15	55.00					pP	00	16.00	181kmX			
FFC	80.60	31	iPd	58	57.40	0.7	FRB	84.37	12	iPd	59	17.00	1.1				PP	03	00.00				
			PP	59	41.00			0.4s	236.00nm				6.3mb				pPP	03	48.00				
HFS	80.68	336	P	58	57.20	0.2	MLR	84.65	320	Pd	59	17.00	-0.8				(SKS)	09	44.00				
	0.6s	2670.00nm			7.1mb		UZH	84.66	324	Pc	59	18.50	0.9				e	11	12.00				
			e	32	00.00					ipP	59	57.00	153kmX				e	24	00.00				
NB2	80.88	338	P	58	57.60	-0.5				iS	09	26.00		PRU	87.52	328	iPd	59	31.50	-0.1			
	0.9s	398.00nm			6.1mb		KRA	84.92	326	iPd	59	18.70	-0.2		1.5s	1060.00nm				6.5mb			
TBY	81.02	336	P	58	58.70	-0.1		1.0s	1390.00nm				6.7mb		Z	17s	17.30um				6.5MszX		
GDH	81.10	5	iPd	59	01.20	2.2		Z 22s		23.40um			6.5Msz		N	18s	21.80um						
	1.0s	280.00nm			5.9mb			N 26s		49.70um					E	18s	15.00um						
	Z 22s	14.00um			6.3Msz			E 26s		66.50um							iPP	03	00.00				
			ipP	59	48.00	191kmX				i	59	20.70					iS	09	36.00				
			iPP	02	10.00					i	59	27.20					i	10	56.00				
			iS	09	00.00					i	00	00.00					e	12	00.00				
			iSS	14	12.00					i	02	30.00		ZST	87.55	326	iPc	59	32.40	0.6			
FCC	81.21	25	iP	59	01.50	1.7				i	03	26.00					i(PP)	03	00.70				
	1.2s	529.00nm			6.1mb					iS	09	26.00		EZN	87.84	315	iPd	59	32.20	-1.1			
			PP	59	42.00					e	17	20.20		VIE	87.88	326	Pd	59	34.00	0.7			
EUR	81.36	50	iP	59	02.20	0.9				e	26	15.20					i	59	36.00				
	0.5s	29.00nm			5.3mb X		MCQ	85.09	169	eP	59	22.00	2.6				pP	00	16.00	167kmX			
AFR	81.91	115	eP	59	08.00	3.9X	GPA	85.10	314	eP	59	19.50	-0.5				sP	00	39.00				
	1.4s	640.00nm			6.2mb		MDB	85.12	321	eP	59	20.00	0.0				PP	03	00.00				
			ePP	59	48.00		NIE	85.15	325	iPd	59	16.50	-3.6X				SKS	09	47.00				
PMO	82.01	112	eP	59	05.80	1.2		1.0s	1200.00nm				6.6mb				SP	11	03.00				
	1.4s	425.00nm			6.0mb		CEI	85.18	323	eP	59	21.00	0.8	VKA	87.89	326	iPd	59	33.80	0.4			
			iPP	59	45.80		CJR	85.19	322	eP	59	21.00	0.6				i	59	36.00				
PPT	82.08	115	eP	59	09.00	4.0X	HRT	85.19	315	iP	59	20.90	0.4				PP	03	04.00				
	1.4s	410.00nm			6.0mb		CMP	85.29	320	eP	59	21.00	0.1				(SKS)	09	48.00				
KIS	82.11	320	Pd	59	04.80	0.1	SPC	85.34	325	iPd	59	22.60	1.3	VTS	87.99	319	Pd	59	34.00	0.0			
			isP	59	59.00					i(PP)	02	44.50		CIN	88.06	313	P+	59	34.50	0.1			
			iS	09	07.00					eS	09	42.50		BEO	88.09	322	P	59	33.80	-0.6			
PAE	82.13	115	eP	59	09.00	3.8X	CGN	85.42	319	eP	59	23.00	1.5				iPcP	59	43.20				
	1.4s	410.00nm			6.0mb		ISK	85.43	315	eP	59	22.20	0.6				i	03	00.00				
PPN	82.18	115	eP	59	09.00	3.5X	IST	85.48	315	P-	59	22.00	0.1				i	06	42.00				
	1.4s	380.00nm			5.9mb		GLA	85.51	55	eP	59	23.60	1.4				iS	09	47.60				
			ePP	59	49.00		JOS	85.65	325	iPd	59	24.50	1.9				iScS	10	06.90				
TPT	82.23	112	eP	59	06.70	1.0		1.8s	2420.00nm				6.7mb	IZM	88.12	314	iPc	59	32.80	-2.0			
	1.4s	320.00nm			5.9mb		COZ	85.65	321	eP	59	23.00	0.1	SOP	88.17	326	Pd	59	34.70	-0.1			
			iPP	59	47.00		REY	85.72	352	iP	59	25.10	2.5	MOX	88.35	330	iPd-	59	35.50	-0.1			
KAS	82.31	313	P-	59	06.80	0.8	CTT	85.77	315	iP	59	22.90	-0.4				PP	03	07.00				
VAH	82.36	112	eP	59	07.40	1.0	ALT	85.93	313	iPd	59	23.70	-0.6				SKS	09	50.00				
	1.4s	220.00nm			5.7mb		DEV	86.09	322	Pd	59	25.00	0.2				PS	11	00.00				
			iPP	59	47.40		KSP	86.12	328	iPd	59	24.50	-0.3				SS	16	05.00				
KON	82.45	337	iPd	59	06.40	0.1		1.0s	450.00nm				6.3mb				PKKP	17	22.00				
TVO	82.46	115	eP	59	11.00	4.0X				iPP	02	49.50					e	22	55.00				
	1.4s	675.00nm			6.2mb					eS	09	33.50					P'P'	25	25.00				
RUV	82.53	112	eP	59	08.30	1.0	BRN	86.38	331	iPd	59	26.80	0.8				e	39	48.00				
	1.4s	355.00nm			5.9mb		PVL	86.52	318	iPd	59	28.00	1.1				e	46	24.00				
			iPP	59	48.20		DST	86.55	314	eP	59	26.10	-1.1	HOF	88.48	330	iPd	59	36.30	0.1			
PAS	82.55	55	iPd	59	08.00	0.7	EDC	86.59	315	ePd	59	25.80	-1.5		1.7s	2190.00nm				6.8mb			
	1.0s	300.00nm			6.0mb		CLO	86.65	321	eP	59	27.00	-0.5				eS	09	51.00				
	Z 20s	21.00um			6.5Msz		SRE	86.69	321	eP	59	27.00	-0.7	KHC	88.57	328	iPd	59	36.70	0.0			
	N 20s	10.00um					DIM	86.95	317	eP	59	29.00	0.0		0.9s	309.00nm				6.2mb			
	E 20s	14.00um					HAM	86.96	333	iPd	59	29.70	0.9		Z	19s	8.30um			6.2Msz			
		e	59	45.00			BRG	87.16	329	iPd	59	29.70	-0.1		N	19s	14.00um						
		eS	09	13.00						PP	02	55.00			E	20s	14.20um						
		ePPS	10	20.00						SKS	09	43.00					e	03	10.20				
		eSS	14	40.00						i	10	55.00					S	09	50.00				
		eSSS	18	00.00						SS	15	42.00		SRS	88.69	318	P	59	36.40	-1.0			
CIZ	82.96	150	iP	59	12.10	3.2X				P'P'	25	27.00		WIT	88.73	334	iPd	59	38.30	1.0			
			pP	59	48.00	142kmX				SKPP'	28	34.00					ePP	03	12.00				
WAR	82.98	327	iP	59	10.00	0.9				RRPKP	46	05.00		WET	88.88	329	iPd	59	38.00	-0.2			
			ePP	02	26.00		SRO	87.22	325	iPd	59	30.60	0.4	EDU	88.92	341	iPd	59	38.80	0.6			
			e	03	14.00					i	00	23.00			1.1s	2340.00nm				7.1mb			
			e	06	54.00					iPP	02	59.00					ePP	03	06.40				
			eS	09	14.00					iS	09	42.50		KNT	89.07	318	Pd	59	37.90	-1.3			
LVV	83.04	324	Pd	59	10.00	0.6	CLL	87.26	330	iPd	59	30.00	-0.3	KMR	89.08	327	iPd	59	39.60	0.5			
			sP	00	02.00					i	59	32.00					SS	03	12.00				
			iS	09	16.00					i	59	52.00					i	03	16.00				
DUG	83.05	48	eP	59	11.00	1.1				PP	02	58.00					e	45	00.00				
BER	83.26	339	iPd	59	11.40	1.0				e	03	46.00		MOA	89.16	327	iPd	59	39.40	-0.1			
CLI	83.27	320	eP	59	11.00	0.3				SKS	09	40.00					i	59	42.00				
MII	83.40	321	eP	59	13.00	1.7				S	09	57.00					i	59	44.00				
AKU	83.76	351	iPd-	59	15.40	2.6				e	10	50.00					PP	03	13.00				
	1.9s	5260.00nm			7.0mb					SP	11	05.00					(SKS)	09	55.00				
			e	02	19.00					PPS	11	43.00		VAY	89.16	318	iPd	59	39.00	-0.6			
			iS	09	27.00					SS	15	46.00		ELO	89.19	341	iPd	59	39.80	0.3			
			i	28	42.20					PKKP	17	23.00			2.0s	2560.00nm				6.8mb			
VRI	83.99	320	Pd	59	15.00	0.7				P'P'	25	26.00					ePP	03	08.10				
TLB	83.99	318	iPd	59	15.00	0.7				e	26	06.00		GRF	89.22	330	iPd	59	40.00	0.3			

	Z	20s	7.70um		6.1Msz				e	17	13.00			ORO	93.72	329	P	59	59.30	-1.4
			i	59	42.20		LHC	90.68	31 eP	59	47.00	0.6				ePP	03	49.00	
			ePP	03	16.20		TIR	90.70	320 P	59	46.50	-0.2				eSKS	10	17.00	
			iSKS	09	57.00		STU	90.79	330 iPd-	59	46.50	-0.5		VG1	93.74	328	P-	00	04.00	3.4X
			eS	10	19.30			1.1s	1060.00nm			6.8mb					e	03	37.00	
			iPS	11	21.30			Z 20s	14.20um			6.4Msz		SGO	93.77	321	P	00	00.40	-0.4
WTS	89.31	333	iPd	59	39.50	-0.5	GAP	90.93	328 iPd	59	47.80	0.1		MNS	93.86	324	P	00	00.20	-1.0
	1.0s	854.00nm			6.7mb			1.2s	1740.00nm			7.0mb					e	03	46.00	
			ePP	03	12.00		TRI	90.93	326 eP	59	45.80	-1.8					e	10	17.00	
			eS	09	55.00				e(PP)	03	24.00			LUB	94.01	48	eP	00	04.00	1.8
			e	11	22.00				e(S)	10	02.50						eS	10	26.00	
			e	17	22.00				e	11	39.00			LOR	94.22	332	iPd	00	02.50	-0.3
EBH	89.32	341	iPd	59	40.40	0.3			e(SS)	16	44.00			RMP	94.26	324	P-	00	02.50	-0.6
	2.0s	3080.00nm			6.9mb				e	23	24.00						iPP	03	44.00	
			ePP	03	08.00		UCC	91.20	334 Pd-	59	48.90	0.1					iS	10	24.00	
ESY	89.34	340	iPd	59	40.60	0.4			PP	03	23.00						iPPS	11	32.00	
	1.1s	1380.00nm			6.8mb				SKS	10	06.00			LBF	94.39	332	iPd	00	03.40	-0.3
			ePP	03	08.60				S	10	25.00				1.2s	918.00nm			6.9mb	
THE	89.37	318	Pd	59	38.80	-1.7			SP	11	36.00			SSF	94.53	332	iPd	00	04.20	0.0
SKO	89.40	319	iPd	59	40.70	0.0			pP	59	30.50				1.0s	906.00nm			6.9mb	
			iPcP	59	43.00		BUH	91.28	331 eP	59	45.40	-3.9X		FLN	94.68	335	iPd	00	04.60	-0.3
			iPP	00	35.50		GWF	91.31	331 iPd	59	48.80	-0.6			0.8s	335.00nm			6.6mb	
			iPP	03	16.00		WLF	91.39	332 ePd	59	51.00	1.4		SSC	94.69	335	iPd	00	04.80	-0.1
			iS	09	56.00				PP	03	32.00				0.7s	381.00nm			6.7mb	
			iScS	10	24.00				SKS	10	08.00			SMF	94.72	332	iPd	00	05.00	-0.1
			iPS	11	20.00				S	10	41.00			AVF	94.81	332	iPd	00	05.50	0.0
EDI	89.51	340	iPd	59	41.20	0.3			SP	11	49.00			VAL	94.99	342	iPd	00	06.00	-0.2
	2.0s	1920.00nm			6.7mb				e	16	54.00						PP	03	54.00	
			ePP	03	10.00		OGA	91.39	328 iPd	59	49.80	-0.3					(SKS)	10	24.00	
			iSKS	09	53.80		STR	91.55	331 P-	59	52.00	1.6					PS	12	30.00	
EBL	89.59	340	iPd	59	41.90	0.5			ePP	03	30.00						SS	17	16.00	
	2.0s	4040.00nm			7.0mb				iS	10	30.00			RRO	95.01	44	eP	00	09.80	3.1X
			iPP	03	11.00				e	35	00.00				1.1s	92.00nm			6.0mb	
EAU	89.65	341	iPd	59	42.20	0.6	DOU	91.67	333 Pd-	59	50.70	-0.3		PCO	95.01	43	eP	00	09.00	2.4
	1.0s	1100.00nm			6.8mb				pP	00	34.00	172kmX		GRR	95.13	335	iPd	00	07.10	0.1
			ePP	03	11.00				PP	03	29.50				1.0s	481.00nm			6.7mb	
DBN	89.85	334	eP	59	43.00	0.4			SKS	10	08.00			GZI	95.19	320	P	00	06.00	-1.4
			ePP	00	24.00				S	10	32.00			OII	95.23	319	P	00	07.00	-0.5
			eSP	00	42.00				SP	11	42.00			MES	95.27	320	P	00	06.00	-1.8
			ePP	03	20.00		CTI	91.70	327 P-	59	50.00	-1.4		LPF	95.49	335	iPd	00	09.00	0.4
			ePPP	04	10.00				iPP	03	31.00				1.1s	734.00nm			6.9mb	
			eS	10	00.00				e	10	07.00			OCO	95.50	44	eP	00	10.00	1.1
			eSS	16	28.00				e	25	19.00						e	00	52.10	
BHG	89.91	328	iPd	59	43.10	0.1	CDF	91.89	331 iPd	59	52.10	-0.1		SSB	95.51	330	iPd	00	08.60	-0.2
BNS	89.96	333	iPd	59	42.80	-0.3	ECH	92.09	331 P-	59	52.30	-0.7		MZF	95.58	332	iPd	00	09.20	0.1
			iPP	03	17.30				epP	00	40.00	191kmX			1.2s	900.00nm			7.0mb	
			eS	09	59.50				iPP	03	33.00			CVF	95.63	326	iPd	00	08.10	-1.3
LIT	89.99	317	Pd	59	41.60	-1.9			iSKS	10	07.00				0.7s	230.00nm			6.6mb	
EKA	90.00	340	Pc	59	44.20	1.0	ZUL	92.12	330 Pd	59	52.60	-0.6		TCF	95.68	332	iPd	00	09.60	0.0
	1.2s	588.00nm			6.4mb		DMU	92.33	341 iPd	59	54.30	0.3			1.0s	325.00nm			6.6mb	
TNS	90.01	331	iPd	59	43.50	0.1		1.7s	2440.00nm			7.0mb		DRV	95.77	180	P	00	11.50	2.4
			ePP	03	19.00		BSF	92.55	331 iPd	59	54.80	-0.4					ePP	04	04.00	
			eSKS	10	01.50			0.9s	714.00nm			6.8mb					eS	11	10.00	
			ePS	11	30.50		SAL	92.56	327 P	59	54.00	-1.1					iSP	12	29.00	
ESK	90.03	340	iPd	59	43.50	0.1	HAU	92.60	331 iPd	59	55.10	-0.3		FRF	95.92	328	iPd	00	09.60	-1.0
	1.0s	1080.00nm			6.8mb			0.7s	424.00nm			6.7mb			0.8s	192.00nm			6.5mb	
KBA	90.15	327	iPd	59	43.80	-0.5	DDK	92.62	341 iPd	59	55.40	0.1		LSF	95.98	333	iPd	00	11.00	0.1
	1.1s	400.00nm			6.3mb			2.0s	2400.00nm			7.0mb			1.0s	481.00nm			6.8mb	
			i	59	45.40		DKM	92.72	341 iPd	59	55.80	0.0		LRG	96.13	328	iPd	00	11.00	-0.6
			i	59	48.00			2.0s	2700.00nm			7.0mb			0.8s	343.00nm			6.8mb	
			iPP	03	21.10		DLE	92.77	341 iPd	59	56.10	0.1		LMR	96.16	328	iPd	00	10.80	-0.9
			i	03	25.00			2.0s	2700.00nm			7.0mb			1.2s	481.00nm			6.7mb	
			i	03	26.70		SCH	92.91	15 ePd	59	57.40	0.7		MEI	96.22	319	P	00	11.30	-0.8
ANMO	90.18	49	ePd	59	46.00	1.3	DCN	92.93	341 iPd	59	57.00	0.3		CDR	96.23	329	P	00	11.30	-0.8
			e	00	47.00			1.7s	2540.00nm			7.1mb		TUL	96.25	43	ePd	00	13.00	0.7
ALQ	90.18	49	eP	59	45.50	0.8	ETA	93.19	340 iPc	59	58.60	0.7			1.4s	193.00nm			6.3mb	
	0.8s	98.90nm			5.8mb			1.2s	690.00nm			6.7mb			Z 20s	10.30um			6.3Msz	
	Z 20s	53.20um			7.0Msz		DUI	93.45	323 P-	59	59.20	-0.1			N 22s	5.25um				
			e	00	25.00				iPP	03	42.00				E 19s	6.23um				
LJU	90.31	326	ePd	59	44.00	-0.8			e	10	19.00						e	00	51.40	
			epP	00	32.50	195kmX	PRG	93.49	325 P	00	00.00	0.5					iS	10	36.00	
			eS	09	58.00				eS	10	18.00			GI8	96.29	320	eP	00	11.30	-1.2
FUR	90.32	329	iPd	59	45.20	0.3	ORI	93.49	320 P	00	00.30	0.8		CHI	96.34	34	P	00	13.00	0.4
	0.9s	2370.00nm			7.2mb		AQU	93.51	324 P	59	56.30	-3.4X		MFF	96.35	334	iPd	00	12.70	0.2
			e	03	24.00				i	03	38.50				1.3s	655.00nm			6.8mb	
			eS	10	02.50		FIR	93.56	326 P+	00	00.00	0.2		RKT	96.64	113	eP	00	11.00	-3.0X
OHR	90.32	319	iPd	59	44.00	-1.0			iPP	03	22.00			RJF	96.76	332	iPd	00	14.80	0.4
			iS	09	56.20				iS	10	16.00				1.2s	630.00nm			6.9mb	
ATH	90.59	315	iPd	59	44.00	-2.2	PRT	93.56	326 P	00	03.20	3.4X		CAF	96.84	332	iPd	00	15.20	0.4
			iPP	03	20.00				ipP	00	44.00	161kmX			0.8s	225.00nm			6.6mb	
			iS	10	00.00				iPP	03	48.00			ERC	97.04	321	P	00	15.00	-0.7
ENN	90.61	333	iPd	59	46.00	-0.1			iS	10	18.50			JCT	97.34	49	eP	00	17.50	0.2
	1.0s	721.00nm			6.6mb		DIX	93.63	329 Pd	00	00.20	-0.2			1.0s	45.00nm			5.8mb	
			ePP	03	22.00		ECB	93.65	341 iPc	00	00.50	0.4			Z 20s	26.60um			6.7Msz	
			e	05	20.00			1.7s	1950.00nm			7.0mb					i	00	54.50	
			eS	09	48.00		ECP	93.69	340 iPc	00	00.80	0.6					iS	10	41.00	
			e	11	36.00			1.5s	1450.00nm			6.9mb		LFF	97.38	332	eP	00	17.50	0.3

06d 02h

	0.7s	328.00nm		6.8mb			
LPO	97.40	332	iPd	00	17.60	0.3	
	0.7s	190.00nm		6.6mb			
FVM	97.82	38	eP	00	20.00	0.7	
BHO	97.85	43	eP	00	19.00	-0.5	
OTT	98.62	25	eP	00	23.00	0.2	
			PP	01	04.00		
EPF	99.11	332	iPd	00	26.40	1.2	
	0.6s	31.80nm		6.0mb			
MNT	99.28	23	eP	00	26.00	0.2	
	1.3s	83.00nm		6.0mb			
			PP	01	08.00		
CLE	99.51	31	Pd	00	30.00	3.0X	
			epP	01	22.00	210kmX	
			iSKS	10	48.50		
CBM	99.76	19	eP	00	30.00	2.0	
RSNY	99.78	25	eP	00	27.90	-0.3	
DHN	99.83	28	eP	00	30.80	2.4	
HNME	100.50	20	ePdiff	00	33.40	2.3X	
LGR	100.74	333	iPdiff	00	33.00	0.7	
			iPP	01	31.00		
			iPP	04	35.00		
			iSKS	11	00.00		
			eS	12	14.00		
INY	100.84	27	ePdiff	00	35.00	2.3X	
EBR	100.86	330	ePdiff	00	33.00	0.2	
			e	03	39.00		
			ePP	04	41.00		
			e	10	55.00		
			e	13	25.00		
BNH	100.88	22	ePdiff	00	34.80	1.9	
MIM	101.01	21	ePdiff	00	35.80	2.4X	
AVY	101.30	255	ePdiff	00	34.00	-1.5	
BLVT	101.52	24	ePdiff	00	36.20	0.5	
LNX	102.15	25	ePdiff	00	40.40	1.9	
MIR	102.20	198	ePdiff	00	40.00	1.9	
NAI	102.46	276	ePdiff	00	43.00	2.2	
	2.0s	206.00nm		6.5mb			
STJ	102.46	9	ePdiff	00	40.50	0.8	
ORT	102.60	36	ePdiff	00	41.90	1.2	
MD1	103.13	25	ePdiff	00	44.50	1.6	
ALI	103.31	329	iPdiff	00	45.50	1.8	
			iPP	05	21.00		
TOL	103.54	333	Pdiffd	00	47.00	2.2	
			ipP	01	30.00		
			iPP	05	02.00		
			iS	12	21.00		
PTO	104.16	336	iPdiff	00	47.50	0.1	
			iS	05	08.00		
ALM	105.43	330	iPdiff	00	53.90	0.7	
	1.5s	3.60nm		5.2mb X			
	N 13s	0.40um					
	E 19s	0.40um					
			iPP	04	08.90		
			iPPP	05	13.90		
			iS	11	17.10		
CRT	105.64	331	ePdiff	00	54.00	-0.2	
			e	16	33.50		
SFS	107.35	332	iPdiff	01	05.00	3.3X	
			iPP	05	34.00		
			iSKS	11	28.00		
			iS	12	14.00		
			iPS	14	30.00		
			iSS	18	16.00		
SBA	108.17	174	ePdiff	01	14.00	9.6X	
			e	01	40.00		
			pP	01	53.00		
			sP	02	07.00		
CLK	110.78	263	ePKP	05	15.00	-1.8	
			iPP	06	00.00		
			iSKS	11	44.00		
			ePKKP	16	19.00		
MAW	112.28	204	ePdiff	01	33.00	10.2X	
			e	05	18.00		
			e	11	45.00		
TAM	112.33	315	Pdiff	01	42.00	17.7X	
MTD	114.19	264	PKP+	05	23.00	-0.4	
			iSKP	08	46.00		
			iPKKP	16	08.00		
KRI	115.92	265	ePKP	05	26.00	-0.8	
			iPP	06	18.00		
			iSKP	08	49.00		
			iPKKP	16	02.00		
CIR	115.92	260	ePKP	05	27.00	0.5	
			iPP	06	23.00		
			iSKP	08	48.00		
			ePKKP	16	02.00		
CNG	117.39	254	i(PKP)	05	14.00	-15.1X	
			e(PP)	06	17.00		
			i(SKS)	11	25.00		
JOZ	117.89	253	iPKPc	05	28.50	-1.6	
			e	06	17.50		
BUL	118.13	262	PKP+	05	31.00	0.1	
			iPP	06	54.00		
			iSKP	08	51.00		
			iSKS	12	11.00		
SPA	119.25	180	iPKPc	05	31.00	-0.6	
	1.0s	125.00nm					
EVA	120.08	255	iPKPc	05	35.00	0.5	
			e	06	19.00		
SLR	120.48	256	iPKPc	05	34.40	-0.9	
			i	12	22.00		
YND	120.96	295	PKP	05	36.10	-0.3	
KSR	121.70	256	iPKPc	05	25.20	-12.4X	
			e	05	32.00		
BLF	123.34	253	ePKP	05	39.00	-1.7	
PKR	124.80	252	e(PKP)	05	38.30	-5.2X	
SJG	126.25	32	ePKP	05	46.00	-0.5	
	1.0s	65.00nm					
	Z 20s	7.09um		6.3Msz			
			e	09	12.00		
SUR	128.68	250	iPKPc	05	48.00	-2.9X	
	Z 19s	13.20um		6.6Msz			
ANG	128.97	28	ePKP	05	52.30	0.7	
WIN	128.99	264	e(PKP)	05	26.00	-25.8X	
	Z 22s	27.40um		6.9Msz			
SEG	129.78	28	ePKP	05	53.00	-0.1	
NVL	129.88	200	PKP	05	55.00	3.3X	
PAG	130.05	28	ePKP	05	54.00	0.3	
CER	130.14	250	ePKP	05	35.00	-18.4X	
			e	05	59.00		
			i	09	02.50		
LGN	130.21	43	ePKP	06	00.00	6.0X	
TUH	130.24	250	ePKP	05	31.00	-22.6X	
			e	05	58.50		
MGG	130.30	28	ePKP	05	54.00	-0.1	
KDS	130.60	324	ePKP	05	42.30	-12.4X	
			i	05	55.90		
KIC	131.13	311	ePKP	05	42.00	-13.8X	
			i	05	55.40		
			i	08	09.10		
			i	09	03.00		
MBO	131.27	330	iPKP	05	59.20	3.2X	
			i	08	18.20		
			i	09	08.60		
TOV	131.36	41	ePKP	05	53.50	-2.8X	
CHN	131.38	51	ePKP	05	50.00	-6.5X	
FDF	131.43	28	ePKP	05	57.50	1.1	
			S	09	06.10		
UAV	131.50	44	ePKP	05	57.00	0.2	
CRM	131.51	28	ePKP	05	56.90	0.5	
SDV	131.59	43	ePKP	05	58.50	1.6	
BIM	131.66	28	ePKP	05	56.80	0.0	
MVM	131.70	28	ePKP	05	57.00	0.2	
FUQ	132.27	49	ePKP	06	00.00	1.6	
CAR	132.36	38	iPKP	06	01.50	3.2X	
BOG	132.68	50	ePKP	05	57.50	-1.7	
			ePP	09	12.00		
PSO	132.84	57	ePKP	05	51.50	-8.1X	
SNA	134.02	197	ePKP	06	00.10	0.5	
TRN	134.96	31	ePKP	05	53.30	-9.7X	
	0.6s	19.50nm					
AIA	140.99	164	e(PKP)	06	09.00	-3.6X	
			e(S)	09	34.00		
NNA	141.31	71	ePKP	06	07.30	-7.5X	
	0.6s	115.00nm					
HUA	142.58	70	PKP-	06	14.10	-3.4X	
			iP	06	23.00		
			iP	06	55.10		
			iP	06	07.00		
PT06	142.69	73	iPKPc	06	13.80	-3.3X	
PT03	143.22	73	iPKP	06	16.50	-1.5	
AAS	144.99	165	ePKP	06	18.00	-1.6	
	0.6s	1360.00nm					
ARE	148.04	73	PKPd	06	27.00	0.6	
			eSKKS	16	36 00		
			e	20	00.00		
			esSS	29	32.00		
			e	48	08.00		
LPB	150.89	70	PKP	06	33.20	2.3	
	1.1s	1600.00nm					
	Z 21s	10.40um		6.6Msz			
			SKS	16	53.00		
TMU	151.26	118	ePKP	06	33.00	2.8X	
ANT	151.91	86	PKP	06	34.00	2.4	
			e	07	20.00		
LAV	152.34	106	ePKP	06	34.00	2.0	
OAS	152.36	84	PKP	06	39.00	6.5X	
TLL	152.95	99	PKP-	06	34.70	1.4	
ROCH	152.95	106	PKP-	06	33.00	-0.2	
PEL	153.23	106	PKP-	06	34.00	0.7	
SAN	153.25	107	PKP	06	33.50	0.2	
CHCH	153.25	108	PKP	06	32.20	-1.1	
PCH	153.37	107	PKP-	06	32.50	-1.1	
BACH	153.39	106	PKP-	06	34.50	0.9	
FCH	153.56	106	PKP-	06	35.00	0.8	
CEN	154.82	102	e(PKP)	06	25.00	-10.6X	
RFA	155.02	110	ePKPc	06	31.00	-4.7X	
VCA	155.02	96	ePKPc	06	37.50	1.5	
TCA	158.37	101	ePKPc	06	42.00	1.9	
SOB1	159.86	4	PKP	06	43.10	1.0	
			e	06	52.50		
			e	07	07.80		
			e	07	24.40		
			e	09	22.30		
			eSKP	10	01.70		
			ePKS	10	09.00		
			ePP	11	07.50		
			esPP	12	10.00		
			e	12	46.10		
			e	13	08.50		
BAA	163.18	113	PKPd	06	48.40	3.6X	
			i	08	20.40		
			PP	11	26.40		
			i	18	27.60		
			i	21	38.00		
LPA	163.55	114	PKPd	06	44.40	-0.7	
			pPKP	07	24.00		
			e	07	36.00		
			SKP	10	05.00		
			PP	11	27.00		
			pPP	12	01.00		
			SKSP	21	33.00		
BAO	164.26	31	ePKP	06	48.00	1.5	
VAO	170.81	48	PKP	06	51.50	0.7	
			i	06	57.00		
			e	07	30.60		
			e	08	07.20		
			e	08	13.70		
			e	08	44.90		
			e	09	05.90		
			ePP	12	02.70		
			ePPP	16	16.30		
			epPP	16	32.10		
			e	18	45.00		
RDJ	172.74	27	iPKPd	06	52.40	0.9	

S.D. = 1.3 on 599 of 679 obs.

DEC 13, 1982 09h 12m 48.53± 0.31s
14.707 N ± 1.5km 44.278 E ± 1.6km
DEPTH = 3.2 ± 2.0 km
6.0mb (74 obs.) 5.9Msz (12 obs.)
WESTERN ARABIAN PENINSULA (555)

Unconfirmed reports of 2800 people killed, 1500 injured, 700,000 homeless ond about 300 villoges destroyed or badly damaged in Yemen. Maximum intensity VIII in the Dawran-Risabah area. Felt throughout Yemen and in the Najran area, Saudi Arabia. Landslides accurred in the epicentral area. as well as extensional ground cracks trending north-northwest in zones up to 15 km. in length. This is the first instrumentally located hypocenter in the Dhamor region of Yemen.

OBO	2.87	200	iPn	13	35.10	-0.9	
MKL	3.17	200	iPn	13	39.20	-1.0	
TDD	3.18	205	iPn	13	39.60	-0.8	
ATA	3.39	198	ePn	13	42.50	-1.0	
ARO	3.45	204	iPn	13	43.20	-1.2	
			iS	14	35.20		
DAF	3.52	209	iPn	13	44.10	-1.2	
HLD	3.58	210	iPn	13	45.20	-0.8	
SGH	3.62	206	iPn	13	45.80	-1.0	
KSU	3.64	210	ePn	13	45.50	-1.5	
AAE	7.81	224	ePn	14	48.20	2.1	

13d 09h

NAI	17.52	206	ePd	16	56.00	0.3	KUL	32.28	40	eP	19	21.00	0.2	TAM	37.48	288	P	20	04.00	-1.6			
	3.0s	6800.00nm			6.3mb					eS	24	31.30		VIS	37.55	80	P	20	08.00	2.0			
PRNI	17.75	333	eP	17	01.00	2.6	GRG	32.35	328	Pd	19	20.00	-1.3	BLY	37.74	328	eP	20	08.40	1.1			
BHD	18.49	0	P	17	08.40	1.0	TET	32.43	199	iP	19	21.00	-1.1	VAR	37.77	68	P	20	06.80	-1.0			
			iS	20	44.00					ePP	19	28.00		BUL	37.90	204	P-	20	09.00	-0.1			
			iPcP	22	00.00					e	24	31.00					ipP	20	17.00	27kmX			
			i	22	56.00					i	29	10.00					iPP	21	47.00				
UNJ	18.86	337	P	17	22.00	9.8X				i(S)	30	00.00					iLQ	32	43.00				
HLW	19.23	324	iPd	17	17.00	0.5				i	32	31.00		FRU	38.26	37	ePc	20	14.00	2.2			
			eS	20	47.00		VAY	32.53	329	iP	19	22.40	-0.4				isP	20	16.20				
MSL	21.61	358	ePc	17	41.00	-0.8	TRD	32.57	97	P	19	21.40	-2.1				iS	26	16.00				
			iPP	18	01.50					PP	20	40.40		NRN	38.26	40	eP	20	13.00	0.8			
TEH	21.89	16	eP	17	49.00	4.2X				S	24	45.40					eS	26	09.00				
KHI	23.30	31	eP	18	01.00	2.2	PVL	32.74	334	Pd	19	24.00	-0.7	AQU	38.28	322	P	20	12.00	0.0			
TAB	23.34	4	iPd	18	01.00	1.9	HYB	33.02	81	ePc+	19	27.00	-0.4	UZH	38.37	336	eP	20	12.00	-0.5			
NAK	24.42	2	Pd	18	13.80	4.5X				ePP	20	30.00					iS	26	16.00				
GRS	24.76	4	Pd	18	14.40	1.5				e	21	04.00		RMP	38.39	321	P+	20	14.00	1.2			
			isP	18	17.80					ePcP	22	18.50					ePP	21	53.00				
			iS	22	40.20					eS	24	40.00					iS	26	28.00				
ERE	25.38	0	Pd	18	21.50	2.8X				ePcS	25	59.50					iSS	29	12.00				
ELL	25.42	332	iP	18	19.60	0.5				eSS	26	28.00		LVV	38.71	339	Pc	20	16.50	1.1			
MHI	25.45	30	Pd	18	21.30	2.0	KHO	33.16	42	eP	19	28.00	-0.6	MNS	38.73	322	P	20	15.50	-0.2			
			eS	22	44.70					S	24	39.00		PSZ	38.78	334	Pd	20	15.90	-0.3			
BHJ	25.45	67	P	18	22.80	3.4X	VTS	33.20	331	Pd	19	28.00	-0.6	BUD	38.83	333	P	20	17.00	0.5			
			S	23	01.30		OHR	33.29	327	eP	19	16.40	-13.2X				i	20	22.00				
KRV	25.91	4	eP	18	25.00	1.5				i	19	28.90					isP	20	35.00				
LEN	25.97	359	Pc	18	28.00	3.8X				i	19	55.80					e	22	04.00				
BAK	26.05	10	eP	18	28.00	3.2X	CFR	33.30	339	Pd	19	34.00	4.5X	JOS	38.96	335	Pd	20	17.20	-0.3			
SHE	26.11	8	iPc	18	28.50	3.2X	GAR	33.32	39	eP	19	29.00	-1.0				i	20	18.00				
ASH	26.30	26	P	18	29.00	1.9				eS	24	48.20					ipP	20	25.00	26kmX			
KAT	26.58	21	Pc	18	30.50	0.8	BUC	33.41	336	P	19	30.00	-0.4				isP	20	32.00				
MTA	26.90	1	Pc	18	34.80	2.2	NDI	33.49	60	P-	19	32.20	0.8	SRO	39.40	332	iP	20	23.60	2.4			
TIF	26.92	1	iPc	18	34.80	2.0				iPP	20	46.00					iPP	22	05.50				
BKR	26.94	359	Pd	18	34.00	0.8				iS	24	54.00					eS	26	30.00				
			iS	23	14.00		SKO	33.58	328	iPd	19	31.30	-0.7	SPC	39.63	335	eP	20	23.50	0.2			
ALT	27.28	335	iP	18	36.00	-0.2				i	19	37.00					i	20	28.60				
BNG	27.31	251	iPd	18	36.00	-0.7				i	19	49.50					iPP	22	05.70				
	1.7s	532.00nm			6.0mb					iPP	20	50.00		NIE	39.78	336	iPd	20	24.50	0.1			
BCAO	27.33	251	iPd-	18	36.00	-0.8				iS	25	08.50			2.0s	514.00nm			5.8mb				
			eS	23	05.00					iSS	27	23.00		CEY	39.84	327	eP	20	25.60	0.7			
BOM	27.62	77	P	18	39.20	-0.2	AVY	33.59	174	iPc	19	34.50	2.0				i	20	31.80				
			PcP	21	37.20		MTD	33.70	202	P-	19	33.00	-0.4				ePP	22	03.60				
			S	23	29.20					ipP	19	41.00	27kmX				e	23	46.50				
IZM	27.98	331	iP	18	43.50	0.9				eLQ	30	24.00					eS	26	40.00				
KAS	28.09	343	P+	18	44.10	0.5	ISR	33.84	337	eP	19	35.00	0.7	LJU	39.98	327	eP	20	25.60	-0.5			
GPA	28.26	337	iP	18	45.30	0.2	TIR	33.96	326	P	19	34.20	-1.1				i	20	31.80				
MAK	28.34	5	P	18	48.20	2.5	BRD	33.98	338	eP	19	39.00	3.6X				ePP	22	03.60				
			iS	23	24.00		YND	34.07	255	P-	19	36.30	-0.4				eS	26	40.00				
GRO	28.57	2	Pc	18	50.00	2.3	FOC	34.09	338	P	19	40.00	3.7X	BOK	40.11	70	P	20	33.90	6.5X			
POO	28.57	78	P	18	49.00	0.9	TAS	34.27	34	ePc	19	39.00	1.0	TLG	40.15	38	ePd	20	28.00	0.5			
			PP	19	43.00					eS	25	10.20		TRI	40.17	327	P	20	27.50	-0.1			
			S	23	39.50		MLR	34.37	337	ePd	19	40.00	1.0	PRZ	40.33	40	eP	20	33.00	3.8X			
			SS	25	16.00		DRA	34.37	334	Pc	19	40.00	1.2	FIR	40.39	322	P	20	12.00	-17.4X			
SOC	29.04	353	Pc	18	52.00	0.0	PPE	34.39	339	eP	19	30.00	-8.9X				e	37	00.00				
			iS	23	47.00		VRI	34.40	338	P	19	40.00	0.9	KRA	40.43	336	iPd	20	29.20	-0.5			
PYA	29.25	358	Pc	18	55.00	1.1	KRI	34.52	205	P-	19	40.00	-0.5		1.6s	382.00nm			5.8mb				
EDC	29.30	334	iPd	18	54.10	-0.2				ipP	19	48.00	27kmX		Z 14s	14.90um			6.0MszX				
ISK	29.41	336	eP	18	58.00	2.7				eLQ	30	57.00			N 14s	8.60um							
IST	29.42	336	P	18	55.00	-0.4	CMP	34.53	336	Pd	19	47.00	6.7X		E 14s	9.50um							
ATH	29.47	326	iPc	18	57.00	1.1	CVO	34.56	337	eP	19	42.00	1.5				i	20	32.80				
			iPP	20	00.00		KIS	34.69	341	P	19	40.00	-1.5				i	20	35.30				
			eS	24	07.00					ipP	19	41.00	3kmX				e	22	17.00				
EZN	29.56	331	ePd	18	56.30	-0.4				isP	19	44.00					iS	26	47.00				
CTT	29.73	335	iP	18	58.00	-0.2	DDI	34.69	58	P	19	43.90	2.0				i	26	49.00				
KBL	29.81	44	iPc	18	59.10	-0.2				S	25	22.80		PRT	40.55	322	P	20	32.50	1.8			
MFT	29.91	334	iP	19	00.00	0.1	COZ	34.86	335	Pd	19	43.50	0.3				i	23	08.00				
NPA	30.02	190	iP	19	08.00	7.0X	TTG	35.04	327	P	19	44.70	0.2				e	26	53.00				
			e(PP)	20	13.00					S	25	26.00		VIE	40.61	331	Pd	20	32.00	0.9			
			eS	29	26.00		ORI	35.06	321	P	19	45.50	0.8				i	20	36.00				
DMK	30.57	335	iP	19	05.20	-0.5	MSR	35.26	336	Pc	19	45.00	-1.4				pPP	22	18.00				
ANN	30.66	350	eP	19	05.00	-1.3	CLO	35.31	333	Pd	19	47.50	0.7				e	27	01.00				
PAIG	30.93	328	P	19	09.20	0.4	GIB	35.41	317	P	19	48.50	0.6				e	44	08.00				
OUR	31.08	329	Pd	19	09.70	-0.5	GZR	35.57	334	Pc	19	51.50	2.3	VKA	40.64	331	iPd	20	31.60	0.2			
SIM	31.35	346	ePd	19	12.00	-0.5	SSR	35.61	332	Pd	19	49.00	-0.4				i	20	36.00				
KDZ	31.45	332	Pd	19	14.00	0.6	CEA	35.62	338	iPd	19	51.50	1.8				pPP	22	19.00				
LIT	31.67	327	Pd	19	14.40	-1.0	ANR	35.65	38	eP	19	53.00	3.2X	OBN	40.81	353	Pd	20	32.00	-0.7			
DIM	31.67	333	eP	19	16.00	0.7				eS	25	37.00					eS	26	44.00				
THE	31.82	328	Pd-	19	16.40	-0.2	DEV	35.91	334	P	19	51.00	-0.9	CVF	41.18	319	eP	20	35.90	-0.1			
			e	20	26.00		SGO	36.06	321	P	19	53.50	0.3		1.8s	454.00nm			5.9mb				
SAM	31.86	34	Pc	19	18.00	0.9	BEO	36.18	331	P	19	53.30	-0.9	MNK	41.25	345	P	20	41.00	4.7X			
			eS	24	18.00					i	21	11.80					eS	27	03.00				
SRS	31.87	330	Pd	19	16.40	-0.7	CJR	36.29	336	eP	19	56.00	0.8	MOS	41.27	354	Pd	20	37.00	0.6			
DSH	32.12	38	Pc	19	21.00	1.6	ERC	36.39	316	P	19	57.00	0.9				isP	20	43.00				
			iS	24	40.00		DPS	36.67	321	P	20	03.50	5.1X				eS	26	56.00				
GBA	32.15	88	Pd	19	19.20	-0.7	BMR	37.12	337	Pc	20	03.00	0.9				isS	27	02.00				
	1.2s	125.00nm			5.7mb		DUI	37.24	322	P	20	04.50	1.4	KBA	41.28	328	ePd	20	36.70	-0.2			
KNT	32.25	329	P	19	19.80	-0.6	MSC	37.25	321	P	20	04.60	1.4		1.5s	218.00nm			5.7mb				

13d 09h

			i	20	42.20				2.0s	952.00nm		6.3mb		KIM	47.14	204	iPd	21	26.00	1.8
			i	20	47.10			EMS	44.22	323	Pc	21	00.00	-0.9		1.0s	100.00nm		5.9mb	
			ePP	22	27.30			SLE	44.29	326	Pc	21	00.00	-1.3	KLL	47.14	328	eP	21	23.40	-0.4
			i	22	45.70			CLL	44.32	332	iPd	21	00.00	-1.4	RJF	47.15	319	eP	21	23.40	-0.6
MOA	41.34	329	iPd	20	37.20	0.0					i	21	06.00			1.8s	240.00nm		6.0mb		
			i	20	42.00						PP	22	50.00		TCF	47.16	321	eP	21	23.20	-1.0
CTI	41.53	326	P	20	39.00	0.1					S	27	47.00			1.8s	184.00nm		5.9mb		
WAR	41.79	339	eP	20	43.00	2.3		MOX	44.51	331	iPd	21	02.00	-1.0	ENN	47.41	328	iPd	21	26.00	0.0
			ePP	22	36.00				2.0s	853.00nm		6.3mb			1.3s	88.00nm		5.7mb		
			ePcS	26	28.00			Z	19s	10.80um		5.8Msz					e	21	30.00	
			eS	27	08.00			N	18s	2.80um							e	22	18.50	
SAL	41.89	324	P	20	46.50	4.9X		E	19s	5.60um					LFF	47.49	318	eP	21	26.30	-0.4
BHG	41.95	328	iPd	20	41.60	-0.6					ePP	22	50.00			1.8s	468.00nm		6.3mb		
	1.2s	179.00nm				5.7mb					iS	27	55.00		LSF	47.57	320	eP	21	26.30	-1.0
PCN	42.06	323	P	20	43.50	0.5					eSS	31	00.00		COP	47.67	336	eP	21	30.00	2.1
VG1	42.32	323	P	20	46.00	0.8		STU	44.52	327	iPc	21	02.50	-0.6	WTS	47.69	329	iPd	21	28.00	-0.1
OGA	42.37	326	iPd	20	45.90	0.0			1.0s	100.00nm		5.7mb				1.3s	84.00nm		5.7mb		
	1.7s	786.00nm				6.2mb		Z	20s	10.60um		5.8Msz					i	21	32.10	
CAL	42.38	73	P	20	53.00	7.0X		BBS	44.66	325	Pd	21	03.40	-0.9	DOU	47.73	326	Pd	21	27.80	-0.7
			ScP	26	20.00			NEC	44.72	324	Pd	21	04.00	-0.8			i	21	28.90	
			S	27	21.00			BUH	44.97	327	ePd	21	06.00	-0.8	NUR	47.92	347	iP	21	29.20	-0.6
KSP	42.54	334	iP	20	46.00	-0.9		BRL	45.01	334	eP	21	07.00	0.1		1.2s	162.00nm		6.0mb		
	1.8s	1320.00nm				6.4mb		BRN	45.01	333	eP	21	07.00	0.1	Z	16s	21.10um		6.2MszX		
			eS	27	17.00			BAF	45.16	325	iPd	21	07.20	-1.2			ePP	23	28.00	
KHC	42.54	330	iPd	20	46.20	-0.9		STR	45.17	326	P	21	10.00	1.7			eS	28	30.00	
	1.5s	366.00nm				5.9mb					ePP	22	52.00				e	29	20.00	
Z	13s	2.80um				5.3MszX					iSKS	28	00.00				eSS	32	12.00	
N	12s	2.00um						BSF	45.27	325	eP	21	08.20	-1.1	CRT	47.92	307	eP	21	36.20	5.9X
E	12s	3.10um						ECH	45.28	325	P-	21	08.10	-1.2	UCC	48.25	327	Pd	21	31.80	-0.7
			e	21	10.80						ePP	22	52.00				e	21	36.00	
			PP	22	37.40			CDF	45.33	326	eP	21	08.60	-1.1	WIT	48.26	330	ePd	21	32.50	0.0
			S	27	23.50				1.8s	350.00nm		6.0mb					e	21	37.00	
PRU	42.69	332	iPd	20	47.60	-0.6		GWF	45.47	327	iPd	21	09.80	-1.0	IFR	48.34	302	iP	21	31.50	-2.3
	1.4s	140.00nm				5.5mb		SWZ	45.52	204	iPc	21	11.50	0.0			i	21	34.50	
Z	17s	10.10um				5.8MszX		LSA	45.58	63	P	21	12.80	0.4			i	21	38.50	
N	16s	5.20um									PP	23	11.30		MAL	48.44	306	iPc	21	38.30	4.1X
E	18s	7.50um									S	27	53.30			0.9s	2.50nm		4.3mb	X	
			e	21	15.50						SS	31	21.30		HVD	48.54	202	iPd	21	38.70	3.5X
			PP	22	44.00			HAU	45.61	325	eP	21	10.80	-1.1		1.4s	58.00nm		5.5mb		
			eS	27	21.00				1.8s	285.00nm		6.0mb					i	22	18.40	
PRA	42.80	332	iPd	20	48.00	-1.1		WIN	45.62	216	ePd	21	14.00	1.6	DBN	48.57	329	iPd	21	39.00	4.1X
			e	20	54.00				1.1s	80.00nm		5.6mb			7.0s	23.60nm		4.4mb	X	
			e	30	44.00			VIR	45.76	202	eP	21	14.00	0.7	Z	16s	4.80um		5.6MszX		
WET	42.89	330	iPd	20	48.70	-1.2		SHL	45.77	69	P+	21	13.00	-0.6			iS	29	00.00	
	1.8s	636.00nm				6.0mb					PP	23	06.00		UKR	48.62	33	P	21	35.10	-0.3
			eS	27	32.00						PPP	23	50.00				eS	28	41.10	
ARU	43.03	12	Pd	20	51.20	0.3					S	28	00.00		LGR	48.70	314	iPd	21	36.50	0.3
			isP	20	54.20						SS	30	20.00				ePP	23	33.50	
			ipP	20	56.40	17kmX					SSS	31	31.00				eS	28	40.50	
			eS	27	22.70			TNS	45.79	328	eP	21	11.60	-1.7	MFF	48.76	320	eP	21	35.60	-1.0
FUR	43.06	328	iPd	20	50.50	-0.8		SEM	45.98	32	ePd	21	14.00	-0.6		1.6s	260.00nm		6.0mb		
	1.2s	340.00nm				6.0mb					eS	28	04.60		KIC	48.81	266	iPd	21	37.00	-0.4
LMR	43.06	319	eP	20	50.80	-0.5		EBR	46.02	313	eP	21	16.00	0.9			e	38	41.30	
	1.8s	298.00nm				5.7mb					eS	28	24.00		TOL	48.99	310	Pc	21	38.50	0.0
FRF	43.09	319	eP	20	51.20	-0.3		PUL	46.15	350	Pd	21	15.00	-0.8			i	21	44.00	
	1.8s	479.00nm				5.9mb					isP	21	18.00				ePP	23	30.00	
SLR	43.11	201	iPd-	20	52.50	0.4					eS	28	00.00				iS	29	05.00	
	1.5s	417.00nm				6.0mb					esS	28	05.00		KOI	49.11	67	eP	21	40.00	0.4
Z	17s	59.90um				6.6MszX		BGG	46.35	328	eP	21	13.70	-3.9X	UPP	49.14	343	P	21	36.00	-3.2X
N	19s	25.60um							2.2s	0.82nm		3.4mb	X				ipP	21	37.60	5kmX	
E	19s	60.80um						SMF	46.35	322	eP	21	16.20	-1.5			iS	28	47.00	
			iPcP	22	41.20				1.8s	210.00nm		5.9mb					iSS	32	30.00	
			eS	27	24.00			PYM	46.42	320	Pc	21	18.20	-0.1	MUD	49.51	335	iPd	21	41.90	-0.3
TMA	43.12	324	Pc	20	51.40	-0.6		MLS	46.43	316	iP	21	17.80	-0.6		1.1s	309.00nm		6.2mb		
PRE	43.16	201	iPd	20	54.50	2.0		LBF	46.44	322	eP	21	17.40	-1.0	LDF	49.64	322	eP	21	41.60	-1.7
LRG	43.21	319	eP	20	52.30	-0.3		CAF	46.63	319	eP	21	19.70	-0.3		1.6s	207.00nm		5.9mb		
	1.8s	454.00nm				5.9mb		LOR	46.65	323	eP	21	19.00	-1.1	SUF	49.64	349	P	21	42.40	-0.6
ORO	43.36	323	P	20	52.50	-1.4		AVF	46.71	322	eP	21	19.20	-1.3	SFS	49.79	305	eP	21	48.00	3.4X
EVA	43.55	200	iPd	20	56.80	1.1			1.8s	253.00nm		6.0mb					ePP	23	16.00	
	1.0s	208.00nm				5.9mb		SSF	46.76	322	eP	21	19.60	-1.3			eS	29	10.00	
BRG	43.59	332	iPd	20	54.80	-0.7		BNS	46.88	328	iPc	21	21.70	-0.1	FLN	49.92	322	eP	21	43.70	-1.8
			i	21	21.00				2.0s	0.49nm		3.3mb	X		LPF	49.93	321	eP	21	43.90	-1.6
			e	21	45.00						i	21	26.00			1.6s	389.00nm		6.1mb		
			PP	22	45.00						iPP	23	18.00		GRR	49.98	322	eP	21	44.20	-1.7
BPI	43.60	201	iPc	20	57.50	1.4		MZF	46.90	321	eP	21	21.50	-0.6		1.6s	394.00nm		6.1mb		
MMK	43.61	323	Pc	20	55.00	-1.1		BLF	46.93	202	eP	21	30.00	7.4X	NVS	50.20	28	Pd	21	45.80	-1.6
CDR	43.70	319	Pc	20	55.50	-1.0		WMQ	46.94	43	P	21	21.50	-0.9			iS	29	01.00	
KSR	43.73	203	iPd	20	55.70	-1.5					PP	23	21.00		HFS	50.55	341	P	21	58.30	8.2X
	1.0s	148.00nm				5.7mb					ScP	26	39.50			0.9s	127.00nm		5.9mb		
SVE	43.83	13	Pd	20	57.50	0.1					S	28	16.00				e	39	00.00	
			eS	27	33.00			ALM	46.95	307	iPc	21	28.20	5.6X	ELT	50.67	31	Pd	21	49.20	-1.8
DIX	43.95	323	Pc	20	58.30	-0.5			1.1s	8.40nm		4.8mb	X				iS	29	08.00		
GRF	44.07	329	iPd	20	58.30	-1.1					iPP	23	15.50		KJF	50.75	351	iP	21	50.00	-1.5
	1.7s	261.00nm				5.8mb					iPPP	24	06 00			1.2s	226.00nm		6.0mb		
Z	18s	4.50um				5.4Msz					iS	28	37 60		Z	12s	9.90um		6.0MszX		
			e	21	03.90			LPO	47.09	318	eP	21	23.10	-0.4			ePP	23	48.00	
HOF	44.16	330	eP	20	58.90	-1.3			1.8s	396.00nm		6.2mb					eS	29	08.00	

13d 09h

			eScS	31	52.00					epP	23	00.00	3kmX	SHK		80.52	57	ePc	25	03.90	0.0
APO	50.80	341	P	22	00.39	8.4X				eS	31	13.00				1.4s		930.00nm			6.6mb
SLL	50.94	341	P	22	01.14	8.1X	XAN	61.01	59	Pd	23	04.00	-2.0		Z	20s		5.50um			5.9Msz
BSI	50.97	95	ePd	21	55.20	1.3				PP	25	30.00						ePP	25	07.70	
KON	51.58	338	eP	21	56.00	-1.9				S	31	22.00						eSP	25	11.00	
			e	47	00.00					SS	35	16.50						eS	35	13.00	
UME	51.82	347	P	21	57.80	-1.8	NRI	61.12	16	Pd	23	05.20	-0.8	MBL		82.25	114	eP	25	12.00	-1.1
			i	22	01.80					isP	23	09.00		KUPT		82.40	103	eP	25	18.40	4.5X
			iS	29	24.00		BTO	62.21	52	P	23	13.10	-1.0	BAL		82.87	124	eP	25	16.00	-0.2
NAO	52.01	340	P	22	15.00	13.8X				PP	25	31.00		MEK		82.96	120	eP	25	16.00	-0.8
	1.5s	878.00nm					HHC	63.40	52	P	23	21.40	-0.5	MUN		82.99	126	eP	25	17.00	0.3
CHG	52.34	77	iPc	22	03.00	-1.3	TIY	63.95	55	P	23	24.60	-1.0	MAW		83.20	173	eP	25	18.00	1.0
	1.1s	28.50nm			5.1mb		GZH	65.37	71	Pc	23	36.50	1.6	STJ		83.94	317	eP	25	22.00	0.7
			eS	29	44.00					PP	26	07.00		KLB		84.07	125	eP	25	21.00	-1.3
CHTO	52.34	77	ePc+	22	02.50	-1.8	AKU	65.46	336	iP	23	34.60	-0.1	NWAO		84.14	126	eP	25	22.00	-0.6
	1.1s	29.40nm			5.1mb			1.8s	436.00nm			6.4mb		MAT		84.48	54	eP	25	24.00	-0.3
			iSP	22	09.50		WHN	65.66	63	P	23	35.00	-1.7			1.5s		286.00nm			6.3mb
BDT	52.53	79	eP	22	04.00	-1.7	KBS	66.07	353	iP	23	37.80	-0.7		Z	20s		6.03um			6.0Msz
APA	53.29	355	Pd	22	10.40	-0.2	HKC	66.22	72	iP	23	44.00	3.7X					eS	35	54.00	
			isP	22	12.80					iS	31	34.00		NIIJ		84.93	53	P	25	27.00	0.5
			eS	29	48.00		KHE	66.23	2	Pd	23	39.50	0.0	YSS		85.02	43	ePc	25	27.00	0.3
CER	53.42	206	iPc	22	13.50	1.5				ipP	23	40.00	2kmX					eS	36	00.00	
TUH	53.42	206	eP	22	12.50	0.5				iS	32	34.00		SEY		85.04	26	Pd	25	27.00	0.4
BER	53.65	337	eP	22	11.90	-1.4	REY	66.54	334	iP	23	42.10	0.4					isP	25	30.00	
SOD	53.88	352	P	22	13.80	-1.1	BJI	66.89	53	P	23	43.00	-1.3					eS	35	55.00	
UER	54.06	36	Pc	22	15.10	-1.3				eS	32	41.00		AAI		85.05	95	eP	25	27.00	-0.5
			iS	29	55.30		BOD	66.99	33	eP	23	42.00	-2.6			1.4s		328.00nm			6.4mb
GTA	54.29	52	Pd	22	17.50	-1.0	TIA	67.72	57	P	23	48.60	-1.1	CHJJ		85.22	54	P	25	27.00	-1.0
			S	29	50.50					PP	26	20.00		MGD		85.39	29	ePd	25	27.00	-1.3
			SS	33	28.50					S	32	48.60						iS	36	08.00	
EKA	54.48	329	Pd	22	17.60	-1.9				SS	37	17.00		DDR		85.39	54	eP	25	29.50	0.5
	1.4s	106.00nm			5.7mb		SCO	68.37	341	iP	23	52.20	-0.9	SRY		85.55	55	eP	25	32.40	2.7
ESK	54.49	329	(P)	22	18.00	-1.6		0.9s	78.00nm			5.9mb		OYM		85.58	55	eP	25	33.70	3.8X
TSI	54.61	96	e(P)	22	23.00	1.9	NJ2	69.40	61	P	23	59.00	-1.2	TSK		86.05	54	eP	25	31.10	-1.1
ECP	54.79	324	iPc	22	23.40	1.6				PP	26	40.00		KAKJ		86.10	54	P	25	29.00	-3.4X
	1.5s	405.00nm			6.2mb					iS	33	12.00		KYS		86.35	55	eP	25	37.60	4.0X
ETA	54.91	325	eP	22	13.30	-9.4X				SS	37	33.00		FRB		86.62	336	eP	25	33.00	-1.3
	1.9s	470.00nm			6.2mb		DAG	69.73	347	iPd	23	59.80	-1.6	SOB1		87.69	260	P	25	43.40	2.9X
ECB	55.10	324	iPc	22	21.90	-2.2		0.9s	42.00nm			5.6mb		NVL		88.13	190	P	25	44.00	2.6
	1.3s	250 00nm			6.1mb					iS	33	17.00		MIR		88.61	162	eP	25	46.00	2.3
PCT	55.13	82	iP	22	20.70	-4.1X	TUP	69.81	37	ePd	24	01.00	-1.2					eS	36	20.00	
	1.2s	115.00nm			5.8mb		QZH	69.92	69	Pd	24	03.50	0.1	MBC		88.70	356	iPd	25	44.10	-0.1
PSI	55.17	97	ePd	22	23.30	-1.9				PP	26	40.00				1.6s		376.00nm			6.4mb
	1.5s	169.00nm			5.9mb					eS	33	12.00		KNA		88.77	107	Pc	25	45.20	-0.3
DDK	55.27	326	eP	22	23.90	-1.4				SS	37	32.00		KUR		88.98	43	Pd	25	50.00	3.9X
	2.0s	720.00nm			6.4mb		TRT	71.33	103	iPc	24	13.00	0.9	WBN		89.66	117	eP	25	49.00	-0.6
KIR	55.31	349	P	22	23.20	-2.3		0.7s	58.70nm			5.8mb		SCH		89.75	327	ePd	25	49.20	-0.4
			i	22	27.40		SSE	71.48	62	Pc	24	12.00	-0.8	SNA		90.69	194	e(P)	25	56.00	2.6
DLE	55.34	326	eP	22	25.00	-0.8				PP	26	49.00		SKR		91.97	36	eP	25	57.00	-2.8
	1.8s	910.00nm			6.5mb					eS	33	28.00						eS	37	00.00	
KMI	55.57	69	Pc	22	27.00	-1.3				SS	38	04.00		ILT		91.97	15	eP	26	00.00	0.5
E	17s	6.40um					ANP	72.52	68	Pc	24	26.00	6.8X					eS	37	07.00	
			SP	23	15.00					S	33	56.00		PET		92.31	33	eP	26	04.00	2.7
			PP	24	33.00		TATO	72.52	68	ePc	24	23.00	3.9X					eS	37	08.00	
			S	30	10.00			2.0s	1490.00nm			6.8mb		RDJ		93.36	247	P	26	09.00	2.3
			SS	34	10.00		PPR	72.65	84	eP	24	20.00	0.0					i	26	16.00	
DCN	55.76	325	iPc	22	28.10	-0.8	SZP	72.77	76	ePc	24	29.20	8.6X					iPP	29	52.40	
	1.8s	910.00nm			6.5mb		BAG	73.10	77	P	24	22.00	-0.8					iS	37	36.80	
DMU	55.79	326	iPc	22	27.70	-1.4				eS	33	56.00						isS	37	44.80	
	1.7s	350.00nm			6.1mb		CN2	73.65	48	Pd	24	24.00	-1.4					iPS	38	44.40	
KEV	56.07	353	iP	22	30.50	-0.4				PP	27	09.00						iSS	43	49.60	
	1.1s	154.00nm			5.9mb		PGP	74.01	80	ePc	24	29.90	2.0					eSSS	46	42.40	
Z	12s	10.20um			6.1MszX			1.0s	69.00nm			5.6mb						eLQ	50	40.00	
			i	22	37.80		TIK	74.44	19	ePd	24	27.00	-2.5					eLR	53	35.20	
			ePPP	26	08.00					esP	24	30.00		CBM		93.96	321	e(P)	26	10.00	0.9
			eS	30	24.00					eS	34	04.00						e	26	14.00	
			eScS	32	24.00		YAK	75.00	29	Pd	24	31.60	-1.2	WRA		94.96	109	Pd	26	13.60	-0.5
CD2	56.54	63	P	22	33.00	-2.0				eS	34	09.10				1.2s		57.70nm			5.9mb
			PP	26	04.00		MDJ	76.52	47	Pc	24	41.40	-0.4	WB2		94.98	109	Pd	26	13.70	-0.5
LZH	56.98	56	iPd-	22	37.00	-1.2				PP	27	32.00						iS	29	50.00	
	5.5s	3510.00nm			6.6mb	X				S	34	24.00		ASPA		95.44	113	eP	26	16.00	-0.3
N	17s	6.30um								PS	35	04.00		BAO		96.00	255	e(P)	26	20.00	0.9
E	14s	9.80um								SS	39	18.00		GUMO		96.55	74	e(P)	26	26.00	4.6X
			PP	22	44.00		LGP	76.73	80	eP	24	45.80	2.3					e(S)	37	02.50	
			S	30	30.00		MKS	77.08	99	e(P)	24	44.00	-1.5	INK		97.21	359	eP	26	23.00	-0.5
			SS	30	40.00		ALE	77.67	353	eP	24	47.00	-0.6	ANM		97.79	12	P	26	27.00	0.7
			eSS	34	26.00			1.7s	548.00nm			6.4mb		COL		100.11	5	e(Pdif	26	40.00	3.4X
PPI	57.49	100	eP	22	41.60	-0.2	PLP	78.35	81	eP	24	49.00	-3.4X			2.2s		76.90nm			5.9mb
MOY	58.12	38	ePd	22	44.00	-1.6	VLA	78.39	48	Pc	24	55.00	2.9X		Z	20s		3.90um			5.9Msz
BGV	58.97	74	P	22	51.00	-1.1				eS	34	55.00		FBA		100.11	5	Pdiff	26	39.50	2.9X
GYA	59.08	68	P	22	51.00	-1.9	CGP	78.68	84	eP	24	52.30	-2.0	TTA		101.01	9	Pdiff	26	42.00	1.3
			PP	25	11.00		GDH	79.12	339	eP	24	56.00	0.4	YKC		101.28	350	ePdiff	26	42.00	0.2
			PPP	26	33.00			1.2s	96.90nm			5.7mb		YKA		101.29	350	Pdiff	26	47.00	5.2X
			S	30	54.00					i	35	05.00		RSNT		101.30	350	ePdiff	26	42.30	0.4
ZAK	59.15	40	eP	22	51.00	-1.8	DAV	79.85	85	P	25	04.00	3.4X					ePP	30	47.50	
			eS	31	03.30					eS	35	10.00		PMR		103.21	7	Pdiff	26	50.00	-0.4
IRK	60.26	38	eP	22	59.00	-1.5	PPH	80.26	84	eP	25	02.00	-0.8	PMG		104.70	96	ePdiff	27	00.00	1.8

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CTA	105.95	107	iPdiff	27	07.40		3.7X
	1.2s		21.10nm			6.0mb	
			e	31	27.00		
			i	37	49.00		
			i	40	43.00		
			i	46	47.00		
CTAO	105.95	107	ePdiff	27	07.80		4.1X
	1.1s		23.60nm			6.1mb	
			ePP	31	32.00		
SES	111.65	343	ePKP	31	06.00	-20.3	X
RSSD	114.71	335	(PKP)	31	31.50	-1.1	
			e	42	10.80		
LPB	115.13	258	ePKP	31	35.00	0.6	
	Z 20s		6.38um			6.2Msz	
			SKS	42	15.00		
NEW	115.16	346	ePKP	31	33.00	-0.1	
BOG	115.96	283	ePKP	32	38.50	62.5	X
LRM	116.19	342	ePKP	30	35.40	-60.0	X
RLO	116.45	324	ePKP	31	35.20	-0.7	
TUL	117.07	324	ePKP	31	36.30	-0.7	
	1.2s		44.20nm				
	Z 20s		1.86um			5.7Msz	
			e	31	44.70		
			e	32	43.00		
			e	33	14.50		
BDW	117.96	338	ePKPc	31	38.00	-0.8	
			e	32	44.00		
			e	41	59.00		
ARE	118.34	259	ePKP	31	43.00	2.7	X
			ePP	33	00.00		
			ePS	42	44.00		
			eLR	05	50.00		
			eLR	16	36.00		
GOL	118.93	334	(PKP)	31	39.80	-1.0	
	Z 19s		2.12um			5.8Msz	
PSO	120.12	280	ePKP	31	44.50	0.5	
HUA	121.32	265	PKP	31	46.50	0.3	
BMN	122.51	343	(PKP)	31	47.30	-0.1	
KOU	122.79	105	PKP+	31	48.00	-0.3	
EUR	123.03	342	iPKP	31	47.00	-1.6	
	1.0s		3.46nm				
JCT	123.31	323	ePKP	31	48.00	-1.1	
	1.0s		42.50nm				
	Z 18s		3.44um			6.1Msz	
			e	32	08.00		
			e	33	24.00		
ALQ	123.34	331	ePKP	31	47.00	-2.3	
	Z 20s		3.90um			6.1Msz	
WDC	123.65	348	iPKPc	31	49.00	-0.5	
ORV	124.41	347	iPKPc	31	50.60	-0.4	
MNV	124.64	343	iPKP	31	48.10	-3.5	X
NOU	124.91	107	PKP+	31	49.00	-3.4	X
LPS	125.67	300	ePKP	31	54.20	0.0	
JAS	125.70	345	iPKPc	31	53.80	0.2	
BKS	126.18	347	ePKP	31	55.00	0.5	
			e	32	03.00		
			e	56	20.00		
			e	10	20.00		
PVC	126.34	101	PKP+	31	54.50	-0.8	
FRI	126.41	344	iPKP	31	55.20	0.3	
ARN	126.53	346	ePKP	31	55.80	0.6	
MHC	126.56	346	iPKPc	31	56.20	0.8	
SLD	126.72	346	ePKP	31	56.00	0.4	
PRI	127.46	345	ePKPc	31	58.40	1.3	
GLA	128.48	338	ePKP	31	59.30	0.2	
PAS	128.62	341	ePKP	32	01.00	1.7	
	Z 20s		4.00um			6.1Msz	
			ePP	35	24.00		
			eSKKS	42	30.00		
			ePS	45	44.00		
			ePPS	46	56.00		
			eSSS	57	14.00		
VUN	136.00	101	ePKP	32	16.10	2.4	
AFI	145.08	93	ePKP	32	30.00	-0.1	
			SSP	55	24.00		
NUE	147.02	102	PKP	32	32.00	-1.0	
	S.D. = 1.2 on 372 of 435 obs.						

FEB 13, 1983 01h 40m 11.90± 0.35s
39.994 N ± 2.2km 75.210 E ± 1.5km
DEPTH = 20.1 ± 2.6 km
5.7mb (110 obs.) 6.3Msz (18 obs.)
SOUTHERN XINJIANG, CHINA (321)

Severol people injured ond moderole damage in the Wuqio area. Felt (IV) in the Andizhan-Naryn area, USSR. Felt olso (III) at Frunze and (II) at Tashkent, USSR.

KSH	0.80	132	iPgd	40	27.00	-0.1	
NRN	1.56	22	iPgc	40	36.40	-2.6	
	0.8s	*******	nm				
			eSg	40	56.70		
MUR	1.90	212	ePn	40	46.90	2.8	X
ANR	2.31	290	iPnc	40	51.30	1.8	
			iSg	41	24.30		
SFK	2.41	328	iPg	40	35.40	-15.5	X
			iSg	40	52.00		
FRG	2.65	280	iPn	40	55.60	1.1	
			iSg	41	37.10		
FRU	2.87	351	iPnd	41	00.00	2.5	
			iS*	41	38.00		
NAM	2.88	291	ePn	40	58.40	0.9	
			eS*	41	41.80		
PRZ	3.46	43	iPnd	41	08.20	2.2	
	1.2s	1600.00nm					
			eSn	41	49.20		
AAA	3.52	21	ePn	41	09.40	2.6	X
	2.0s	104.00nm					
			iP*	41	11.30		
			iPg	41	17.80		
TLG	3.65	26	iPnc	41	09.20	0.5	
			iP*	41	17.80		
KHO	3.81	230	iPnc	41	15.40	4.3	X
			eS*	42	06.40		
GAR	3.91	257	iPnc	41	13.60	1.2	
			eSg	42	20.60		
CHL	4.30	33	iPn	41	18.50	0.7	
			iP*	41	27.90		
			eS*	42	19.50		
KUU	4.40	15	ePn	41	15.60	-3.6	X
			eSg	42	21.80		
OBG	4.45	255	ePn	41	21.00	1.0	
			eP*	41	31.60		
			iSg	42	36.30		
TAS	4.69	288	iPnc	41	22.30	-1.1	
	1.0s	*******	nm				
	E 14s	2560.00	um				
			eP*	41	36.30		
			eSn	42	22.30		
KUL	4.74	246	ePnc	41	24.50	0.4	
	0.5s	3200.00nm					
			iP*	41	39.80		
			iSg	42	49.90		
URT	4.76	271	iPn	41	24.80	0.5	
			eSg	42	47.30		
CHM	4.82	300	iPn	41	24.80	-0.4	
CGT	4.88	256	iPn	41	26.10	0.2	
LNA	5.01	251	ePn	41	25.50	-2.2	
KRU	5.06	255	iPn	41	28.40	-0.1	
DSH	5.20	256	iPnc	41	30.50	0.0	
			eSn	42	38.00		
DZE	5.36	258	ePn	41	29.10	-3.7	X
DZI	5.69	273	iPn	41	36.30	-1.1	
			eSn	42	45.70		
SAM	6.34	270	iPnc	41	45.60	-1.0	
	2.8s	*******	nm			7.3	mb X
			iP*	42	09.50		
			iSg	43	44.80		
AGL	6.39	272	iPn	41	46.90	-0.3	
NUT	7.31	277	iP	41	57.60	-2.5	
WMQ	10.06	64	iPc	42	36.80	-1.6	
			sP	42	49.00		
			S	44	34.00		
SEM	11.00	17	ePd	42	48.80	-2.3	
	3.4s	1890.00nm				6.8	mb X
			eS	44	55.10		
NDI	11.40	171	iPd	42	54.00	-2.7	X
	0.5s	141.00nm				6.5mb	
QUE	11.89	217	eP	43	00.60	-2.8	X
			eS	45	05.20		
ASH	13.28	267	P	43	18.00	-3.8	X
	2.0s	*******	nm			8.0	mb X
			iS	45	47.00		
VAN	13.47	267	eP	43	18.80	-5.6	X
	1.4s	730.00nm				6.4mb	
	E 28s	228.00	um				
			eS	45	50.30		
KHI	14.45	251	eP+	43	32.30	-5.1	X
KAT	14.63	273	iPc	43	34.50	-5.1	X
KKN	14.75	143	iPc	43	35.70	-5.7	X
DMN	14.83	143	iPc	43	37.20	-5.2	X
PKI	15.00	143	iPc	43	39.40	-5.4	X

ELT	15.25	26	iPc	43	45.60	-1.9	
	2.5s	1760.00nm				5.9mb	
NVS	15.87	17	iPd	43	51.70	-3.8	X
	1.3s	800.00nm				5.7mb	
LSA	16.61	123	Pd	44	06.30	0.7	
			PP	44	21.10		
			S	47	11.10		
UER	17.47	42	iPc	44	16.50	0.8	
	1.6s	1010.00nm				5.7mb	
GTA	18.93	84	iPc	44	33.50	-0.6	
			iS	48	10.50		
TEH	19.27	265	ePc	44	40.00	1.8	
BAK	19.33	279	iPd	44	42.00	3.3	X
	6.0s	8100.00nm				6.2mb	X
	N 10s	92.40um					
	E 10s	81.80um					
SVE	19.34	335	iPd	44	38.20	-0.5	
	2.7s	2900.00nm				6.1mb	
			iS	48	13.00		
ARU	19.71	332	eP	44	42.30	-0.5	
	3.0s	7500.00nm				6.5mb	
			iS	48	22.00		
IR7	19.87	265	eP	44	44.00	-0.9	
SHL	20.04	131	iP	44	43.00	-3.7	X
			iS	48	20.80		
LNK	20.41	275	iPc	44	50.00	-0.3	
	2.0s	18.00nm				4.1mb	X
MAK	20.98	287	iPc	44	46.00	-10.1	X
	6.0s	*******	nm				
	N 22s	49.10um					
	E 22s	24.30um					
			iPP	45	20.00		
			ePPP	45	30.00		
			iS	48	49.00		
			iSS	49	15.00		
			eSSS	49	29.00		
MOY	21.30	48	eP	44	59.20	-0.1	
			i	45	02.50		
			ePcP	49	03.60		
POO	21.42	184	iPd	44	59.00	-1.8	
			iS	48	48.00		
KRV	21.99	281	eP	45	02.00	-4.3	X
			eS	49	07.00		
GRS	22.17	278	iPc	45	07.20	-1.2	
	2.0s	2500.00nm				6.3mb	
			iPP	45	28.40		
			ePPP	45	49.60		
			iS	49	12.60		
ZAK	22.22	53	iPd	45	08.90	0.4	
	1.7s	1140.00nm				6.0mb	
	Z 14s	72.00um				6.2Msz	X
	N 15s	49.90um					
	E 13s	58.10um					
			iS	49	17.00		
GRO	22.26	288	iPc	45	08.00	-0.9	
	2.0s	4200.00nm				6.5mb	
	Z 18s	170.00um				6.5Msz	
	N 18s	280.00um					
	E 18s	300.00um					
			iS	49	13.00		
TAB	22.48	274	iPc+	45	13.00	1.6	
HYB	22.68	172	ePd	45	11.00	-2.4	
	1.0s	430.00nm				5.9mb	
			eS	49	14.00		
LZH	22.84	91	Pc+	45	16.50	1.5	
	7.0s	3600.00nm				6.0mb	X
	E 13s	95.30um					
			sP	45	28.00		
			S	49	19.00		
NAK	22.94	278	iPd	45	16.50	0.8	
			eS	49	28.50		
MTA	23.01	284	iPc	45	16.60	0.2	
			iS	49	29.40		
STE	23.41	283	iPc	45	20.60	0.2	
	1.0s	2.40nm				3.7mb	X
			iS	49	33.00		
			isS	49	38.00		
IRK	23.43	49	eP	45	22.00	1.6	
	2.6s	970.00nm				5.9mb	
	Z 18s	69.70um				6.2Msz	
	N 10s	50.40um					
	E 10s	26.50um					
			ePP	45	50.00		
			eS	49	26.00		
			eS	49	36.00		
ERE	23.44	280	iP	45	21.00	0.3	
	N 12s	25.00um					

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	E	12s		19.00um		
				esP	45 23.00	
				iPP	45 55.00	
				iS	49 33.00	
				iSSS	50 29.00	
LEN		23.84	282	iPc	45 27.00	2.3
		3.0s		1300.00nm		6.0mb
BKR		23.97	285	iPc	45 26.60	0.8
		1.4s		100.00nm		5.2mb
	Z	16s		95.00um		6.4MszX
	N	12s		37.00um		
	E	16s		24.90um		
				iPP	46 00.50	
				iS	49 47.60	
PYA		24.14	290	iPc	45 28.00	0.6
		1.0s		150.00nm		5.5mb
	E	12s		35.70um		
				iPP	45 59.00	
				ePPP	46 18.00	
				iS	49 45.00	
ABS		24.47	285	eP	45 31.00	0.5
		2.5s		2000.00nm		6.3mb
				isP	45 36.00	
				iS	49 50.00	
CD2		24.87	102	eP	45 35.80	1.2
				eS	50 02.00	
ZUG		25.09	287	iP	45 40.50	4.0X
MSL		25.38	272	ePd	45 39.00	-0.3
				iPP	46 22.50	
				iPPP	46 39.50	
				eS	50 07.50	
				iSS	51 13.50	
				iSSS	51 38.50	
				eLQ	54 26.00	
				e	55 58.00	
				i	58 14.50	
BHD		25.55	265	ePd	45 45.20	4.4X
				e	50 15.00	
GBA		26.36	175	P	45 47.00	-1.5
BTO		26.46	77	eP	45 50.80	1.4
SOC		26.58	289	iPc	45 52.00	1.7
		2.5s		400.00nm		5.6mb
	N	20s		74.00um		
	E	15s		39.00um		
				iS	50 27.00	
KMI		27.40	114	Pd-	45 59.00	0.8
	N	10s		26.10um		
				PP	47 40.00	
				S	50 37.00	
XAN		27.46	92	P	45 57.80	-0.7
HHC		27.57	76	eP	46 01.00	1.5
				eS	50 42.00	
ANN		28.22	293	eP	46 04.40	-0.8
	Z	15s		75.00um		6.4MszX
	N	18s		120.00um		
	E	15s		6.50um		
				ePP	46 48.40	
				ePcP	49 21.40	
				eS	50 50.40	
TIY		28.94	82	Pc	46 13.00	1.1
				pP	46 21.00	28kmX
				PP	47 02.00	
				PPP	47 16.50	
				PcP	49 24.50	
				S	50 59.00	
				sS	51 16.00	
MOS		29.28	315	iPd	46 15.00	0.4
		2.0s		960.00nm		6.2mb
	N	16s		310.00um		
	E	18s		64.90um		
				iPP	47 04.00	
				iPPP	47 25.00	
				eS	51 08.00	
CHG		29.38	129	iPd	46 13.90	-2.1
		1.7s		55.80nm		5.1mb
				eS	51 38.00	
CHTO		29.38	129	eP-	46 13.00	-3.0X
		2.0s		58.10nm		5.0mb
				i	46 19.50	
GYA		29.40	108	P	46 17.00	0.8
				pP	46 27.00	35kmX
KVT		29.62	285	eP	46 19.00	1.1
OBN		29.69	314	ePc	46 18.30	0.0
		1.4s		420.00nm		6.1mb
				ePP	47 12.00	
				iS	51 14.00	
NRI		30.26	9	iPc	46 23.60	0.4

		1.8s		280.00nm		5.8mb
	Z	18s		38.00um		6.1Msz
	N	14s		17.00um		
	E	12s		62.00um		
				ePP	47 19.00	
				ePPP	47 32.00	
				iS	51 23.00	
SIM		30.47	293	eP	46 25.00	-0.4
	Z	20s		59.50um		6.2Msz
	N	20s		6.50um		
	E	20s		76.50um		
				ePP	47 29.00	
				ePPP	47 47.00	
				eS	51 29.00	
				eSS	53 01.00	
BOD		30.65	41	eP	46 26.10	-0.7
		1.0s		230.00nm		6.0mb
BJI		31.18	76	eP	46 32.00	0.4
				eS	51 30.00	
				SS	53 00.00	
TIA		32.98	83	eP	46 47.20	-0.2
				pP	46 57.50	37kmX
				ePP	47 58.00	
				eS	52 04.00	
TUP		33.00	49	eP	46 46.70	-0.7
		1.7s		310.00nm		6.0mb
WHN		33.10	94	eP	46 48.00	-0.5
				iS	52 11.00	
				PcS	53 12.00	
JER		33.22	268	eP	46 53.50	3.8X
				eS	52 18.00	
KIS		33.93	298	iP	46 56.00	0.5
	Z	19s		48.40um		6.2Msz
	N	14s		80.00um		
	E	15s		25.00um		
				iPP	48 16.00	
				iPPP	48 31.00	
				iS	52 14.00	
GPA		34.05	285	eP	46 56.00	-0.7
PCT		34.07	130	eP	46 57.20	0.1
		1.2s		46.30nm		5.3mb
PUL		34.15	320	iPd	46 59.00	1.7
		1.2s		400.00nm		6.2mb
	Z	12s		70.00um		6.6MszX
	E	12s		80.00um		
				ePP	48 06.00	
				ePcP	49 34.00	
				iS	52 26.00	
ALT		34.52	283	eP	47 03.00	2.1
BCK		34.63	280	eP	47 01.50	-0.3
IAS		34.80	298	eP	47 10.00	7.0X
PPE		34.87	296	eP	47 15.50	11.8X
CLI		35.06	297	iPc	47 08.00	2.7
FOC		35.24	295	eP	47 11.00	4.2X
BAC		35.32	297	eP	47 08.00	0.5
ELL		35.38	280	iP	47 10.10	1.8
DST		35.47	285	eP	47 07.20	-1.7
VRI		35.54	296	eP	47 12.00	2.6
DMK		35.56	289	eP	47 09.00	-0.6
ISR		35.77	295	eP	47 16.00	4.6X
APA		35.83	334	iPd	47 12.80	1.2
		0.9s		40.00nm		5.3mb
	Z	11s		90.00um		6.8MszX
				isP	47 18.50	
				iS	52 49.00	
EDC		35.84	286	eP	47 11.00	-1.0
NJ2		35.89	89	Pc	47 13.00	0.5
				eS	52 50.00	
MLR		36.13	295	iPc	47 16.00	1.4
BUC1		36.27	293	eP	47 20.00	4.5X
GZH		36.29	106	eP	47 16.50	0.6
KJF		36.61	327	iP	47 18.50	0.4
		0.8s		39.60nm		5.3mb
				eS	53 00.00	
CMP		36.80	295	iPc	47 24.00	4.0X
SUF		36.86	325	iP	47 20.20	-0.1
		0.5s		39.10nm		5.5mb
LVV		36.90	303	eP	47 23.00	2.2
	Z	15s		85.00um		6.7MszX
	N	16s		148.00um		
	E	14s		90.00um		
				ePP	48 45.00	
				ePPP	49 12.00	
				iS	53 07.00	
				isS	53 12.00	
				iSS	55 33.00	
				iSSS	56 05.00	

MCO		37.03	107	iP	47 27.20	5.1X
HLW		37.04	268	eP	47 23.00	0.8
				iS	53 14.00	
NUR		37.08	321	iP	47 21.40	-0.7
		0.9s		89.60nm		5.6mb
	Z	17s		11.40um		5.7MszX
				i	47 24.40	
				eS	53 06.00	
PVL		37.12	292	eP	47 25.00	2.3
CN2		37.13	67	P	47 24.80	2.1
				PP	48 49.00	
				S	53 08.00	
				SS	55 34.00	
COZ		37.27	295	eP	47 28.00	3.8X
KDZ		37.35	289	iPd	47 27.00	2.4
HKC		37.37	106	iP	47 30.50	5.5X
				iS	48 58.00	
DRA		37.45	294	eP	47 28.00	2.5
CJR		37.55	298	eP	47 26.80	0.4
SSE		38.10	89	P+	47 32.00	1.0
	Z	12s		46.00um		6.5MszX
	N	16s		60.80um		
	E	12s		34.90um		
				i	48 48.00	
				eS	53 24.00	
				SS	56 04.00	
SOD		38.10	332	iP	47 27.70	-2.9
UZH		38.15	301	eP	47 33.00	1.7
	Z	13s		50.00um		6.5MszX
	N	14s		130.00um		
	E	14s		50.00um		
				ePP	48 57.00	
				eS	53 25.00	
DEV		38.17	297	ePd	47 35.00	3.5X
VTS		38.66	291	eP	47 35.00	-0.6
BSI		38.82	147	eP	47 34.50	-2.7
KEV		38.89	336	iP	47 40.00	2.8X
		0.9s		71.00nm		5.4mb
				iPP	49 12.00	
				eS	53 36.00	
SSR		39.17	295	eP	47 40.00	0.1
YAK		39.21	37	iPd	47 38.40	-1.5
		0.9s		410.00nm		6.1mb
				iPP	49 12.00	
				iPPP	49 34.00	
				iS	53 39.00	
				iSS	56 19.60	
				iSSS	56 54.00	
JOS		39.33	301	eP	47 41.00	-0.2
TIM		39.35	297	iPd	47 26.00	-15.3X
SPC		39.42	302	eP	47 46.60	4.4X
		6.0s		5.40nm		3.4mb X
VAY		39.45	290	iP	47 41.20	-1.0
KRA		39.51	304	eP	47 39.20	-3.4X
		0.9s		158.00nm		5.7mb
	Z	22s		79.50um		6.5Msz
	N	22s		205.00um		
	E	22s		60.30um		
				e	47 41.10	
				e	47 44.50	
				i	47 47.90	
				i	47 51.10	
				e	49 23.00	
				eS	53 41.00	
ATH		39.62	284	eP	47 52.00	8.3X
				ePP	49 20.00	
				eS	53 40.00	
SNG		39.82	138	eP	47 42.00	-3.5X
PSZ		39.85	300	eP	47 47.00	1.4
MDJ		39.86	65	eP	47 48.00	2.4
				PP	49 24.00	
				eS	53 50.00	
				sS	54 05.00	
TDD		40.01	234	eP	47 50.80	3.7X
SKO		40.08	291	iPc	47 50.80	2.5
				iPP	49 33.00	
				iS	53 56.00	
ARO		40.26	234	eP	47 52.50	3.2X
				i	47 55.00	
DAF		40.40	235	eP	47 55.60	5.3X
SGH		40.46	234	eP	47 54.00	3.1X
UPP		40.49	319	iP	47 43.80	-6.8X
		1.0s		200.00nm		5.8mb
				i	47 52.00	
BUD		40.50	300	eP	47 51.00	0.2
KIR		40.51	331	eP	47 50.00	-0.6
KSU		40.52	235	eP	47 58.80	7.5X

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OHR		40.79	290	iP	47	55.00	1.7				i	48	35.30		WLF		48.32	306	P	48	55.00	1.5
				i	49	29.10					i	48	49.00						PP	50	51.00	
SRO		40.91	300	e(P)	48	02.00	7.8X				i	50	04.50						S	55	51.00	
				e(PP)	49	31.20					i	50	22.10						SS	59	24.00	
				e(S)	53	55.00					(S)	54	18.20		BSF		48.44	303	iPc	48	53.60	-1.1
				i	57	05.00		TRI		44.44	298	eP	48	22.70 -0.3			0.9s		108.00nm			5.9mb
KHE		41.24	356	eP	47	59.00	2.5					i	48	49.50		DIX		48.57	301	ePd	48	54.10	-1.9
		1.3s		410.00nm			6.0mb					ePP	50	05.50		MAT		48.67	73	(P)	48	56.00	-0.5
	Z	14s		78.00um			6.7MszX					iPPP	50	46.00				1.0s		78.00nm			5.7mb
	N	14s		58.00um								iS	54	56.00						eS	55	46.00	
	E	14s		35.00um								iSS	58	22.00		HAU		48.67	303	iPc	48	55.20	-1.2
				iPP	49	40.00		KON		44.56	319	iP+	48	25.70 1.9			0.8s		61.50nm			5.7mb
				iS	54	16.00		PIP		44.57	105	eP	48	27.50 3.2X		PPR		48.92	116	eP	48	57.00	-1.6
				iS	57	06.00		MOX		44.67	306	eP	48	24.00 -0.8		UCC		49.11	308	P+	49	01.30	1.7
ANP		41.26	97	eP+	48	02.00	4.6X			2.2s		438.00nm		6.0mb						e	49	12.00	
				iS	54	25.00			Z	13s		61.90um		6.7MszX						e	49	23.00	
TIK		41.28	23	ePc	47	57.00	0.1		N	16s		132.00um								PP	50	57.20	
		0.9s		210.00nm			5.9mb		E	17s		65.50um								S	56	09.00	
	Z	15s		90.00um			6.8MszX					i	48	32.50						SS	59	32.00	
	N	11s		35.00um								iPP	50	20.00		DOU		49.16	307	Pc	48	59.10	-1.0
	E	15s		87.00um								iS	55	00.00						e	49	09.00	
				ePP	49	37.00						iSS	58	25.00						S	56	09.00	
				ePcP	49	59.00		AAE		44.75	236	eP	48	27.50 1.3						SS	59	53.00	
				ePPP	50	05.00		SZP		44.94	106	eP	48	34.50 7.2X		MGD		49.47	40	eP	49	00.00	-2.3
				eS	54	12.00		GRF		45.12	305	eP	48	28.30 -0.2				1.4s		160.00nm			5.8mb
TATO		41.35	97	P+	48	05.00	7.0X			1.1s		313.00nm		6.2mb			Z	14s		41.00um			6.6MszX
ZST		41.64	301	iP	48	02.30	2.1		Z	16s		78.50um		6.7MszX			E	14s		35.00um			
				e	49	25.80						e	58	32.00						ePP	51	00.00	
				i(PP)	49	40.50		HAM		45.16	310	eP	48	35.50 6.9X						ePPP	51	47.00	
KSP		41.71	305	eP	47	59.50	-1.2	SHK		45.39	78	eP	48	34.40 3.7X						eS	56	10.00	
		1.5s		147.00nm			5.5mb	FUR		45.45	302	eP	48	30.70 -0.4						eSS	59	37.00	
				iPP	49	44.00				1.2s		396.00nm		6.2mb		SEY		49.68	36	ePc	49	04.10	0.2
				e	54	18.00						eS	55	16.50				1.8s		100.00nm			5.5mb
				iS	57	10.00		KGM		45.61	139	ePc	48	32.50 -0.1			Z	13s		31.00um			6.5MszX
VLA		41.84	67	eP	48	02.00	0.1					e	51	12.50			N	11s		42.00um			
				ePP	49	46.00		BAG		45.75	108	eP	48	35.80 1.8			E	18s		37.00um			
TSI		42.03	144	e(P)	48	06.00	2.4			1.7s		308.00nm		6.0mb						ePP	51	06.10	
VIE		42.12	301	eP	48	05.50	1.4					eS	55	20.00						eS	56	09.10	
				e	49	43.00		OGA		45.95	301	eP	48	33.60 -1.7		KKM		49.94	122	ePd	49	07.60	1.0
				e	57	05.00		KBS		45.98	346	iP	48	36.80 1.9				1.1s		59.30nm			5.5mb
				i	03	37.00						iS	55	21.00		CDR		50.49	298	ePc	49	14.90	4.6X
VKA		42.14	301	e(P)	48	06.00	1.7	PPI		46.36	144	ePc	48	37.50 -1.0						i	49	17.00	
				e	50	02.80				0.8s		70.10nm		5.7mb		LOR		50.50	303	iPc	49	08.50	-1.9
IPM		42.25	140	ePd	48	05.00	-0.5					e(S)	55	25.50				0.7s		35.00nm			5.4mb
HFS		42.47	319	eP	48	05.80	-1.0	OKH		46.57	49	iPc	48	40.60 0.8		LBF		50.52	303	iPc	49	08.70	-1.9
		0.8s		128.00nm			5.7mb			6.0s		2600.00nm		6.4mb X				0.9s		25.60nm			5.2mb
	Z	16s		71.70um			6.7MszX		Z	12s		49.90um		6.7MszX		SSF		50.80	303	iPc	49	11.00	-1.6
PSI		42.90	144	ePc	48	08.20	-2.6		N	12s		20.00um						1.0s		44.50nm			5.4mb
		0.6s		24.90nm			5.1mb		E	12s		46.80um				AVF		50.99	303	iPc	49	12.60	-1.5
PRU		42.96	304	eP	48	10.20	-0.7					iS	55	33.40		CNP		51.28	108	eP	49	18.00	1.4
		1.5s		134.00nm			5.5mb					eSPP	55	46.00		MZF		51.69	302	iPc	49	18.30	-1.1
	N	17s		219.00um				BER		46.62	320	iPd	48	43.00 2.9X		SHO		51.86	61	eP	49	20.00	-0.7
	E	17s		68.40um				FIR		46.71	297	eP	48	42.00 1.0				0.6s		0.04nm			2.5mb X
				PP	49	56.00						ePP	50	47.00			Z	15s		81.00um			6.9MszX
				S	54	27.00						iPPP	51	30.00			N	15s		56.00um			
BRG		43.17	306	eP	48	11.90	-0.8					iS	55	27.00			E	15s		58.00um			
		1.4s		190.00nm			5.6mb	TNS		46.74	306	eP	48	43.50 2.2						eSS	00	12.00	
				e	48	17.90						ePP	49	59.00		TCF		51.90	303	iPc	49	19.90	-1.2
				e	49	59.00						e	59	08.00				0.9s		50.40nm			5.4mb
				eS	54	44.00		WIT		47.21	310	eP	48	48.00 3.2X		KUR		52.06	59	iPc	49	33.00	10.8X
				ScS	58	13.10				1.0s		206.00nm		6.1mb				6.0s		2000.00nm			
BRL		43.31	308	eP	48	14.50	0.8	WTS		47.31	309	eP	48	44.50 -1.2			Z	14s		34.50um			6.5MszX
COP		43.40	313	iPc	48	19.80	5.4X			0.8s		85.00nm		5.8mb			N	12s		39.00um			
		0.7s		148.00nm			5.9mb					e	48	48.50			E	12s		38.50um			
				iS	54	45.00						e	48	55.00						eS	56	51.00	
KMR		43.62	302	eP	48	30.00	13.7X	BGG		47.43	306	eP	48	45.50 -1.2		EKA		52.13	315	P	49	20.00	-2.6
CLL		43.68	306	eP	48	15.00	-1.8	ZUL		47.51	302	ePd	48	46.10 -1.3				0.6s		12.10nm			5.0mb
		1.3s		135.00nm			5.6mb	GWF		47.58	304	iPc	48	48.20 0.3		ESK		52.16	315	iP	49	20.60	-2.3
				eS	54	46.00		CDF		47.96	304	eP	48	50.00 -1.0				1.0s		120.00nm			5.8mb
NB2		43.68	321	P	48	14.30	-2.5			0.9s		48.20nm		5.5mb		LSF		52.36	303	iPc	49	22.80	-1.7
		0.8s		106.00nm			5.7mb	YSS		48.09	58	ePc	48	56.00 4.1X				0.8s		36.00nm			5.4mb
KHC		43.74	303	iPd	48	16.90	-0.5			0.8s		30.00nm		5 4mb		CAF		52.50	301	iPc	49	24.70	-0.9
		1.2s		90.00nm			5.4mb		Z	13s		40.00um		6.6MszX				0.8s		39.00nm			5.4mb
	Z	10s		18.50um			6.3MszX		N	13s		39.20um				LDF		52.56	306	eP	49	24.20	-1.8
	E	10s		19.00um					E	13s		21.80um						0.6s		65.50nm			5.7mb
				i	48	20.00						ePcP	50	18.00		RJF		52.72	302	eP	49	26.30	-0.9
				S	54	50.00						ePP	50	44.00				0.8s		35.50nm			5.3mb
LJU		43.83	299	eP	48	17.90	-0.2					eS	55	52.00		FLN		52.73	306	eP	49	25.20	-2.0
				eS	54	52.40		ENN		48.16	307	eP	48	51.00 -1.3		GRR		53.10	306	iPc	49	27.90	-2.0
				eSS	58	12.00				1.0s		87.00nm		5.8mb				0.8s		83.20nm			5.7mb
KLM		43.84	140	ePc	48	19.50	1.1					e	48	55.00		LPO		53.17	301	eP	49	29.30	-1.2
CEY		43.98	298	ePd	48	21.70	2.4					e	49	01.00				0.8s		41.20nm			5.4mb
WET		44.19	303	iPc	48	20.60	-0.4	DBN		48.27	309	eP	48	57.00 3.9X		MFF		53.30	304	eP	49	29.60	-1.9
		1.4s		216.00nm			5.8mb		Z	20s		23.00um		6.2Msz				0.8s		44.80nm			5.5mb
KBA		44.37	300	eP	48	22.00	-0.6					ePP	50	52.00		LPF		53.34	306	iPc	49	29.60	-2.1
		0.9s		56.80nm			5.4mb					eS	55	57.00				0.6s		36.00nm			5.5mb
				i	48	29.30						eSS	59	18.00		LFF		53.37	301	iPc	49	30.70	-1.2

13d 01h

Sta	Dist	Az	Phase	Time	Res/Mag
	0.8s	55.30nm			5.6mb
NAI	54.00	230	eP	49 39.00	1.8
	1.5s	97.20nm			5.6mb
CGP	54.04	112	eP	49 34.50	-2.7
EPF	54.39	299	iPc	49 37.30	-2.3
	0.8s	19.80nm			5.2mb
DDK	54.53	313	iPc	49 38.10	-2.3
	0.7s	150.00nm			6.1mb
DMU	54.67	314	iPc	49 41.00	-0.4
	1.2s	220.00nm			6.1mb
DLE	54.68	313	iPc	49 39.70	-1.8
	0.7s	90.00nm			5.9mb
DCN	55.07	314	iPc	49 42.00	-2.4
	0.7s	120.00nm			6.0mb
SKR	55.17	50	eP	49 44.20	-0.9
	0.6s	50.00nm			5.7mb
	Z 14s	31.60um			6.5MszX
	N 14s	31.60um			
	E 14s	25.30um			
			ePcP	50 42.40	
			eS	57 31.60	
			eSS	01 05.60	
ABA	55.21	291	eP	49 45.50	-0.1
EBR	55.21	297	eP	49 47.00	1.5
			eS	57 26.00	
LEM	55.36	140	ePd	49 48.50	1.5
DAV	55.61	112	eP	49 50.00	1.3
			eS	57 40.00	
AKU	55.65	330	eP	49 48.80	0.5
	1.2s	75.00nm			5.6mb
PET	55.73	47	eP	49 44.00	-5.1X
	Z 14s	17.00um			6.3MszX
	N 14s	23.00um			
	E 14s	15.40um			
			eS	57 34.00	
			eScS	59 40.00	
LGR	56.53	300	iPc	49 57.30	2.2
			i	50 48.30	
VAL	57.29	313	iP	50 02.70	2.5
			iS	57 54.00	
TRT	58.71	135	iPc	50 09.00	-1.5
	0.4s	45.20nm			5.9mb
TOL	58.73	298	eP	50 11.00	0.4
			ePP	52 28.00	
			iPPP	53 53.00	
			iS	58 21.00	
			iSS	02 08.00	
ILT	59.20	25	iPc	50 12.80	-0.6
	1.0s	70.00nm			5.7mb
	Z 18s	50.00um			6.7Msz
	N 20s	32.00um			
	E 20s	45.00um			
			iPcP	51 10.00	
			iPP	52 25.00	
			iS	58 16.00	
			eSP	58 29.00	
			eSSS	04 38.00	
CRT	59.71	295	eP	50 21.00	3.5X
TAM	60.48	276	iP	50 18.50	-4.5X
MAL	60.50	295	iP	50 22.50	-0.3
			iPPP	54 23.00	
			iS	58 28.00	
			iSS	02 38.00	
MKS	60.65	127	e(P)	50 22.00	-2.0
PTO	61.18	301	eP	50 28.00	0.7
			eS	54 22.00	
SFS	61.89	295	eP	50 30.00	-2.2
			ePP	53 22.00	
			eS	57 41.00	
			eSS	02 01.00	
BNG	61.96	251	iPd	50 31.00	-1.9
	1.0s	20.00nm			5.2mb
BCAO	61.97	251	iPd+	50 30.00	-3.0
	1.0s	111.00nm			6.0mb
			eS	58 52.00	
IFR	62.64	292	iP	50 39.50	2.0
MBC	63.67	4	eP	50 41.50	-1.9
	0.8s	195.00nm			6.3mb
AVY	63.97	209	ePd	50 45.10	-1.1
NPA	64.21	219	eP	50 50.00	2.4
AVE	64.38	293	iP	50 50.50	1.8
GDH	64.74	342	iPc	50 50.20	-0.3
	1.0s	20.00nm			5.2mb
			i	59 42.00	
ANM	65.52	24	P	50 55.00	-0.5
GUMO	65.85	92	P+	50 58.00	-0.3
			eS	59 44.00	

Sta	Dist	Az	Phase	Time	Res/Mag
GUA	65.91	92	e(P)	50 48.40	-10.4X
	Z 18s	8.25um			6.0Msz
CLK	66.86	223	eP	51 03.00	-1.7
			eS	59 32.00	
KUPT	67.04	127	eP	51 10.50	4.7X
IMA	67.76	19	ePc	51 08.10	-1.9
TET	67.98	224	iP	51 12 00	0.3
	1.0s	0.11nm			3.0mb X
			e(S)	00 13.00	
TTA	69.56	22	ePd	51 20.90	-0.2
MTD	69.57	225	eP	51 21.00	-0.7
INK	69.91	11	eP	51 22.00	-0.9
	1.2s	167.00nm			6.0mb
COL	70.16	18	eP	51 23.00	-1.6
	Z 19s	22.00um			6.4Msz
FBA	70.16	18	P	51 24.30	-0.3
	0.9s	46.90nm			5.6mb
KRI	70.69	226	eP	51 28.00	-0.6
PMR	72.58	21	ePc	51 38.00	-1.1
	0.8s	25.70nm			5.3mb
	Z 18s	27.00um			6.6Msz
FRB	72.67	344	eP	51 40.00	0.4
TOA	72.91	19	P	51 41.40	0.2
JAY	73.12	108	ePd	51 39.00	-4.0X
BUL	73.93	225	eP	51 50.00	2.3
			iS	01 19.00	
KDC	74.75	24	P	51 51.50	-0.2
PCA	76.08	17	(P)	51 56.70	-2.8
CNG	77.16	219	iP	52 09.00	3.3X
YKA	77.56	5	eP	52 07.30	-0.1
RSNT	77.57	5	P	52 06.40	-1.1
YKC	77.58	5	eP	52 06.50	-1.1
	0.9s	114.00nm			5.9mb
MEK	77.58	141	eP	52 07.00	-1.1
KIC	78.25	268	eP	52 10.10	-2.0
SLR	78.65	222	iPc	52 17.60	3.4X
	1.2s	32.80nm			5.2mb
	Z 18s	5.02um			5.9Msz
PRE	78.72	222	e(P)	52 17.00	2.5
BPI	79.14	222	eP	52 18.00	1.1
PRY	80.04	222	eP	52 20.00	-1.7
MUN	81.06	146	eP	52 27.00	0.2
WRA	81.16	125	Pc	52 26.50	-1.0
	1.3s	46.40nm			5.4mb
WB2	81.16	125	eP	52 26.70	-0.9
FCC	81.20	354	eP	52 29.00	1.8
VIR	81.29	222	eP	52 29.50	1.3
WBN	81.34	135	eP	52 29.00	0.6
	0.5s	14.00nm			5.3mb
SWZ	81.37	224	iPc	52 01.50	-27.2X
	0.6s	57.00nm			
NWAO	82.32	145	eP	52 34.00	0.7
	Z 20s	2.40um			5.6Msz
	N 20s	2.00um			
	E 20s	1.30um			
KLG	82.46	141	eP	52 35.00	0.9
BLF	82.47	222	eP	52 35.00	0.6
PMG	82.47	109	eP	52 27.00	-7.5X
MBO	82.53	282	eP	52 38.50	3.7X
			e	52 50.00	
			e	02 52.00	
			e	03 26.00	
KIM	82.91	223	eP	52 37.00	0.4
	0.9s	50.00nm			5.7mb
HVD	84.03	221	iPd	52 45.20	2.9X
	0.9s	33.00nm			5.6mb
FFC	85.62	358	eP	52 49.50	-0.4
	0.9s	84.00nm			6.0mb
EDM	86.86	5	ePc	52 56.10	0.0
	0.6s	77.00nm			6.1mb
CBM	87.48	336	eP	53 02.00	2.9X
SUR	87.87	224	iPd	53 05.60	4.4X
	0.9s	37.00nm			5.7mb
	Z 19s	10.80um			6.3Msz
RSON	89.01	353	eP	53 05.30	-1.1
			i	53 09.00	
CTA	89.08	117	iPc	53 07.90	0.8
			iSKS	03 37.00	
			i	09 51.00	
CTAO	89.08	117	e(P)	53 05.00	-2.1
	1.1s	40.60nm			5.6mb
EMM	89.22	334	eP	53 14.50	7.0X
SES	89.82	4	eP	53 10.00	-0.3
	0.8s	66.00nm			5.9mb
PNT	90.11	10	eP	53 12.00	0.4
	0.6s	38.00nm			5.8mb
PGC	90.20	12	eP	53 12.10	0.1

Sta	Dist	Az	Phase	Time	Res/Mag
MNT	90.41	339	eP	53 19.00	6.0X
LHC	90.90	350	eP	53 18.00	2.8X
RXF	91.05	7	eP	53 17.00	0.9
OTT	91.08	340	eP	53 20.00	3.9X
GMW	91.38	12	(P)	53 19.00	1.5
LDM	91.44	7	iPc	53 20.50	2.7X
NEW	91.45	8	eP	53 18.20	0.4
RSNY	91.54	339	e(P)	53 20.80	2.5
LHD	91.61	7	eP	53 19.00	0.3
CLX	91.70	7	eP	53 20.70	1.5
APH	92.19	339	P	53 22.00	0.7
SHW	92.79	12	e(P)	53 24.80	0.6
AMM	93.98	6	ePd	53 31.00	1.2
LRM	94.29	5	eP	53 32.40	1.1
ADE	94.80	132	e(P)	53 36.80	3.6X
RSSD	96.27	359	e(P)	53 41.00	0.7
IMW	96.31	4	e(P)	53 42.70	2.1
BDW	97.50	4	e(P)	53 46.00	0.1
	0.9s	7.35nm			5.2mb
			ePP	57 59.30	
BMN	99.16	10	ePDIF	54 00.20	6.9X
	0.9s	17.58nm			5.6mb
DUG	99.86	6	e(P)	53 58.30	1.8
EUR	100.24	9	iPdiff	54 04.00	5.8X
	0.8s	0.74nm			4.3mb X
GOL	100.68	0	e(Pdif	53 47.00	-13.2X
	Z 20s	17.00um			6.6Msz
MNA	101.00	11	(Pdiff	54 02.50	1.1
FVM	101.29	348	e(Pdif	54 04.80	2.3X
ELC	101.78	347	(Pdiff	54 06.00	1.3
RLO	103.68	352	e(Pdif	54 08.00	-5.2X
TUL	104.02	352	ePdiff	54 18.50	3.8X
	0.9s	7.50nm			5.5mb
	Z 19s	5.31um			6.1Msz
ANMO	105.42	1	e(Pdif	54 25.00	3.8X
GLA	106.73	9	(PKP)	58 37.50	0.2
NVL	119.33	200	ePKP	59 10.00	9.9X
KRP	120.05	116	ePKP	59 17.00	14.6X
			ePP	02 04.00	
			eS	04 50.00	
VAO	128.73	271	ePKP	59 22.90	3.2X
SPA	129.80	180	e(PKP)	59 20.00	-0.5
	1.1s	12.70nm			
	Z 20s	7.80um			6.4Msz
ZOBO	140.36	296	ePKP	59 43.50	1.2
	Z 22s	2.69um			6.0Msz
LPB	140.53	296	PKPd	59 44.20	1.8
	1.1s	35.40nm			
	Z 23s	6.44um			6.3MszX
ARE	142.79	299	ePKP	59 44.00	-2.3X
AIA	145.74	209	iPKP	59 53.00	3.6X
TCA	146.45	272	e(PKP)	59 53.00	1.2
ANT	146.84	289	ePKP	59 56.00	3.5X
VBA	146.91	259	ePKPd	59 52.50	0.2
VCA	147.99	279	ePKPd	59 57.00	2.6X
CFA	149.37	274	ePKPd	00 02.00	5.6X
CEN	149.75	275	ePKP	00 03.00	6.0X
RFA	150.81	269	ePKPd	00 02.20	3.7X
JACH	151.63	274	iPKPd	00 07.80	8.0X
FCH	151.66	273	iPKP	00 08.10	7.9X
LQT	151.79	272	iPKPc	00 06.70	6.6X
BACH	151.82	273	ePKP	00 08.00	7.9X
PEL	151.89	273	iPKPd	00 07.70	7.6X
	0.9s	71.40nm			
PCH	151.95	272	iPKPc	00 10.00	9.7X
ROCH	152.07	274	iPKPc	00 04.40	3.8X
LNV	152.77	272	iPKP	00 08.30	7.1X

S.D. = 1.4 on 283 of 389 obs.

APR 03, 1983 02h 50m 02.06± 0.27s
8.699 N ± 1.5km 83.148 W ± 1.5km
DEPTH = 45.9 ± 2.4 km
6.4mb (85 obs.) 7.3Msz (24 obs.)
COSTA RICA (78)

Five people died from heart attacks, one person killed by a collapsing house, and several people injured in southeastern Costa Rica. Also felt strongly in southwestern Panama.

Sta	Dist	Az	Phase	Time	Res/Mag
SJS	1.52	324	iPd	50 26.80	-0.6
SSS	7.73	310	iPc	51 54.40	-0.5
GAL	8.05	74	iP	52 04.50	5.3X
LPS	8.10	314	iPc	52 00.00	-0.1
CHN	8.35	116	iP	52 04.00	0.5
QZG	8.49	315	eP	52 08.60	3.0X

03d 02h

YUP	8.51	311	eP	52	04.30	-1.5	UTO	32.83	359	iPd	56	38.00	4.6X	MHC	44.97	315	ePc	58	16.10	1.2
			eS	53	50.00		GPD	33.10	12	eP	56	36.70	0.9	RFA	45.41	163	ePc	58	18.30	0.1
JMG	8.95	309	eP	52	11.00	-0.9	TPL	33.13	158	eP	56	35.50	-0.7	SOB3	45.56	113	eP	58	18.50	-1.2
MRL	9.00	315	eP	52	13.60	1.0	ALQ	33.74	324	ePc	56	40.00	-1.7				e	58	27.00	
REC	9.20	309	eP	52	13.80	-1.6		0.8s		116.00nm			5.8mb				e	58	30.30	
			eS	54	03.00		Z	18s		206.00um			6.9Msz				e	58	56.00	
SLP	9.21	311	eP	52	15.50	0.0	ANMO	33.74	324	ePc	56	40.60	-1.1	BKS	45.64	316	eP	58	24.80	4.8X
TER	9.25	308	eP	52	14.70	-1.2	DLA	34.05	2	P	56	43.45	-0.5		Z	20s	280.00um			7.2Msz
			eS	54	02.00		INY	34.12	9	iPd	56	45.50	0.9		N	20s	235.00um			
GCG	9.30	310	eP	52	16.00	-0.7	DHN	34.27	6	iP	56	46.30	0.4		E	20s	165.00um			
MMG	9.39	309	eP	52	16.80	-1.2	ELF	34.40	2	P	56	46.20	-0.8				eS	05	11.20	
PSO	9.45	142	iP	52	18.00	-0.9	ANT	34.53	159	eP	56	49.00	0.7	ORV	46.00	318	P	58	23.50	0.7
VLG	9.47	306	eP	52	18.20	-0.6				eS	02	00.00		CON	46.27	169	iP	58	38.20	13.4X
RDG	9.52	312	eP	52	19.70	-0.1				i	02	22.00					iS	05	07.80	
LHG	9.72	307	eP	52	23.50	1.1	WES	35.13	15	eP	56	53.80	0.6	NWRM	46.38	316	ePc	58	26.90	1.2
TP2	9.80	309	eP	52	23.80	0.1	YJA	35.22	151	ePc	56	54.00	-0.8	MIN	46.48	319	ePc	58	26.30	-0.5
FUQ	9.87	108	iP	52	25.00	0.3	APH	35.81	11	eP	56	59.00	-0.1	STJ	46.54	28	eP	58	30.00	3.2X
BOG	9.89	114	iP	52	26.50	1.6	PTN	36.43	10	iP	57	04.70	0.5	RMT	46.96	318	e(P)	58	28.90	-1.4
BMG	10.11	98	iP	52	26.00	-1.7	RSNY	36.49	10	iPc	57	05.10	0.4	WDC	47.21	319	ePc	58	30.50	-1.8
COM	11.54	311	iP	52	46.00	-1.3	GLD	36.68	331	ePc	57	06.20	-0.4	LGBM	47.39	320	ePc	58	33.30	-0.8
LGN	11.81	82	e(P)	52	57.50	6.8X	GOL	36.71	331	iPc	57	06.10	-0.8	SES	47.57	336	iPc	58	34.00	-1.1
LGN	11.81	82	e(P)	53	02.90	12.2X	OTT	37.12	9	iPc	57	10.40	0.5	ITR	47.81	110	ePd	58	35.80	-1.6
UAV	11.87	90	eP	52	56.20	4.5X		1.2s		1140.00nm			6.7mb	SCH	47.81	13	ePc	58	36.00	-0.9
SDV	12.37	88	eP	52	58.00	-0.4	BNH	37.22	14	eP	57	12.00	1.2		0.8s		438.00nm			6.5mb
TOV	13.23	84	iPd	53	14.00	4.4X	SLA	37.42	153	iPd	57	13.80	0.9	TMU	48.20	169	iP	58	47.20	7.2X
SOR	14.01	1	iPc	53	22.00	2.2				S	03	06.00					iS	05	46.60	
	8.0s	********	nm			7.2mb X	MNT	37.58	11	iPc	57	14.50	0.7	FHC	48.27	318	ePc	58	41.40	0.7
CAR	16.09	82	iPd	53	46.00	-1.0		1.9s		3060.00nm			6.9mb	FFC	48.30	345	iPc	58	40.00	-0.6
	1.2s	369.00	nm			5.4mb X	GLA	37.99	314	iPc	57	19.00	1.5	NEW	48.73	330	iP	58	42.60	-1.5
			e	53	47.00		EMM	38.39	18	eP	57	22.50	1.9				e	58	50.50	
IIT	17.93	306	iP	54	16.00	5.9X	MIM	38.40	16	eP	57	22.00	1.3				e	59	16.00	
ACX	18.20	298	eP	54	15.30	2.2	MSU	39.52	323	eP	57	30.80	0.3	LPA	49.50	153	iP+	58	54.80	4.8X
III	18.54	303	ePc	54	18.60	1.1	RSSD	39.69	336	iPc	57	31.80	0.0		0.8s		513.00nm			6.6mb
IIP	18.58	306	eP	54	19.80	1.6	LHC	39.92	354	eP	57	32.00	-1.3		Z	18s	157.00um			7.1Msz
IIM	18.79	306	iP	54	22.00	1.3		1.4s		1200.00nm			6.5mb	COR	49.83	323	iPc	58	54.00	1.5
MEX	18.79	306	eP	54	21.80	1.1	BKU	40.11	323	eP	57	35.10	-0.2	SHW	50.12	325	eP	58	57.30	2.4
TAC	18.84	306	eP	54	01.00	-20.3X	CBM	40.20	16	eP	57	37.00	1.3	RDJ	50.13	130	eP	58	58.40	3.3X
SJG	18.98	59	iPc	54	22.70	-0.1	SDW	40.40	315	eP	57	39.20	1.6	FCC	50.65	353	ePc	58	57.00	-1.5
IIC	19.08	307	ePd	54	25.20	1.0	TLL	40.42	163	iPc	57	38.20	0.2	PNT	50.66	330	ePc	58	58.50	-0.3
CRX	19.23	305	ePd	54	27.00	1.2	CYA	40.55	156	ePc	57	38.90	0.1		1.2s		980.00nm			6.7mb
GUV	19.86	91	iPc	54	31.60	-0.8	PAS	40.94	313	iPc	57	44.00	2.1				pP	59	30.00	136kmX
NNA	21.49	163	iPd	54	48.60	-0.5		1.8s		1200.00nm			6.3mb	EDM	50.67	337	iPc	58	57.30	-1.5
	1.5s	639.00	nm			5.8mb				iPP	59	36.00			1.2s		1140.00nm			6.8mb
			eS	54	57.40					iS	04	07.00		GMW	51.22	326	eP	59	01.30	-1.8
LM2	21.52	164	eP	54	48.60	-0.7				iSS	07	17 00		PGC	52.23	327	eP	59	13.00	2.3
TRN	21.52	83	eP	54	49.40	0.0	DUG	41.01	325	ePc	57	52.70	10.1X	PHC	55.53	327	eP	59	41.00	6.2X
	1.1s	195.00	nm			5.4mb	BDW	41.10	330	iPc	57	42.30	-1.1		1.6s		531.00nm			6.3mb
PAG	22.19	69	eP	54	56.00	-0.1	MOUT	41.16	327	e(P)	57	43.50	-0.5	FRB	55.94	8	iPc	59	35.50	-2.1
BPA	22.33	66	eP	54	57.50	0.0	VPEM	41.62	316	e(P)	57	47.00	-0.6	YKC	58.31	344	ePc	59	53.00	-1.4
FDF	22.35	72	eP	54	58.78	1.1	WKTM	41.97	315	eP	57	51.90	1.5		0.8s		288.00nm			6.4mb
			S	59	15.00		CEN	42.35	162	eP	57	56.00	2.4	YKA	58.36	343	eP	59	53.70	-1.0
BIM	22.38	73	eP	54	58.90	1.0	BAO	42.39	125	P	58	03.00	8.8X	RKT	59.74	237	iP	00	12.20	7.3X
SEG	22.45	68	eP	55	00.50	1.9	EUR	42.43	322	iP	57	53.50	-0.9	TEN	65.62	63	iP	00	48.00	4.1X
PT02	22.51	163	iPc	54	59.10	-0.1		0.2s		33.50nm			5.7mb				iS	09	43.00	
PT06	23.38	163	iPc	55	07.30	-0.4	CFA	42.54	161	ePd	57	55.20	0.1	PCA	66.48	333	P	00	49.20	0.2
PT06	23.38	163	iPc	55	20.70	13.0X				PP	00	05.00		RUV	67.93	250	eP	00	59.00	0.3
PT03	23.69	162	iP	55	12.20	1.5				S	04	20.00			1.0s		40.00nm			5.4mb
SBK	23.91	6	eP	55	16.00	3.4X	IMW	42.60	330	eP	57	55.20	-0.6	RUV	67.93	250	iP	01	07.00	8.3X
ZIN	24.45	6	eP	55	19.90	2.1	TMI	42.67	329	eP	57	55.50	-0.7		1.2s		230.00nm			6.1mb
OSB	24.82	5	eP	55	23.60	2.2	JACH	42.86	164	iPc	57	58.00	0.3	INK	68.03	342	iPc	00	58.40	-0.1
PRM	25.27	2	iP	55	27.20	1.5	LAV	42.95	166	iPd	58	03.50	5.2X		1.2s		1010.00nm			6.7mb
JCT	26.68	327	eP	55	37.00	-1.8	ROCH	43.02	165	iPd	57	59.00	-0.2	TPT	68.09	250	eP	01	00.00	0.3
	1.0s	550.00	nm			6.1mb	PEL	43.27	165	iPd	58	01.20	0.2		1.0s		70.00nm			5.7mb
	Z 20s	70.90	um			6.2MszX		1.1s		120.00nm			5.5mb	TPT	68.09	250	iP	01	08.00	8.3X
RSCP	26.87	356	iPc	55	41.00	0.5		E 24s		72.70um					1.2s		295.00nm			6.2mb
ARE	27.53	155	iPc	55	47.00	0.0				ipP	58	12.50	40kmX	VAH	68.17	250	eP	01	01.00	0.8
GRT	28.03	349	eP	55	51.20	0.2				iS	04	24.00			1.0s		50.00nm			5.5mb
POW	28.29	346	iP	55	52.50	-0.8				iScS	07	56.00		VAH	68.17	250	iP	01	08.40	8.2X
BLA	28.49	5	iP+	55	56.30	1.1	PHAM	43.36	314	ePc	58	03.30	1.6		1.2s		190.00nm			6.0mb
	1.6s	1390.00	nm			6.4mb	FRI	43.46	316	iPc	58	02.50	0.0	PMO	68.35	250	eP	01	02.00	0.7
NAV	28.57	4	P	55	56.50	0.6	BACH	43.52	165	eP	58	11.00	8.0X		1.0s		70.00nm			5.6mb
ZOBO	28.92	149	eP	55	58.50	-1.4	MDZ	43.54	162	i(P)	58	07.80	4.6X	PMO	68.35	250	iP	01	09.70	8.4X
ELC	28.99	350	iP	55	57.60	-2.0	FCH	43.55	164	iPc	58	04.40	0.8		1.2s		295.00nm			6.2mb
LPB	29.16	149	Pc+	56	01.30	-0.5	TCA	43.60	157	ePc	58	03.20	-0.5	REY	69.90	24	iP	01	07.60	-2.4
			S	00	55.00		PRI	43.70	314	ePc	58	05.50	0.9	TOA	69.91	333	ePc	01	10.70	0.5
GBO	29.18	340	ePd	56	02.00	0.7	PCH	43.77	165	iPd	58	05.00	-0.1	MBC	70.32	351	eP	01	11.50	-0.9
RLO	29.41	340	ePc	56	01.40	-2.0	BMN	43.77	322	iPc	58	05.00	-0.1		1.6s		225.00nm			5.9mb
TUL	29.44	339	iPc+	56	01.80	-1.9	LNV	43.86	166	iPc	58	05.50	-0.1				pP	01	56.00	187kmX
	1.5s	1250.00	nm			6.4mb	CHCH	44.03	165	iPc	58	07.00	-0.1	PPN	70.46	248	eP	01	23.00	8.7X
	Z 20s	199.00	um			6.7Msz	LQT	44.03	164	iPc	58	08.20	0.9		1.2s		135.00nm			5.8mb
CVL	29.46	8	P	56	03.40	-0.4	JAS	44.45	317	iPc	58	11.30	0.8	PAE	70.63	248	eP	01	24.00	8.7X
OCO	29.74	336	eP	56	04.40	-2.0				ePcP	00	02 00			1.2s		280.00nm			6.1mb
FVM	29.89	348	iPd	56	06.30	-1.4				eScP	04	57.00		AFR	70.78	248	eP	01	25.00	8.8X
LUB	30.19	328	eP	56	09.00	-1.5	SLD	44.55	315	eP	58	12 30	1.0		1.2s		245.00nm			6.0mb
			epP	56	20.00	40kmX	SAO	44.55	315	eP	58	11.50	0.1	PME	71.04	333	P	01	17.00	0.0
PRIN	32.42	12	eP	56	30.80	1.0	WCN	44.72	319	ePd	58	13.90	1.0	PMR	71.07	332	ePc	01	16.90	-0.3
CLE	32.69	2	eP	56	32.00	-0.2	ARN	44.90	315	ePd	58	15.00	0.8		1.3s		51.90nm			5.3mb X

Z	18s	340.00um			7.7Msz
COL	71.55	336	iPc	01 19.70	-0.4
	1.0s	264.00nm			6.1mb
			eS	10 47.00	
FBA	71.55	336	P	01 19.00	-1.1
KDC	71.71	328	ePc	01 21.30	0.2
AKU	71.97	23	iP	01 21.40	-1.1
	1.4s	1100.00nm			6.6mb
Z	22s	203.00um			7.3Msz
			i	25 02.60	
LIS	72.13	52	iPc	01 24.40	0.4
VAL	72.67	38	iP	01 26.30	-0.6
			S	10 56.00	
PTO	72.70	50	iPc	01 27.10	-0.2
			iS	10 48.00	
HON	72.84	290	eP	01 30.00	1.6
			eS	11 00.00	
KIP	72.84	290	eP	01 30.00	1.6
			e	01 44.70	
AVE	73.37	58	iP	01 32.00	0.6
SVW	73.98	331	ePc	01 33.90	-0.5
IMA	74.24	336	P	01 35.80	-0.2
ALE	74.29	3	eP	01 34.00	-1.9
	1.2s	411.00nm			6.3mb
OHC	74.37	168	iPd	01 44.10	7.6X
SFS	74.40	55	iPc	01 40.00	2.7
			ePP	04 05.00	
			eS	11 20.00	
			eSS	14 30.00	
			eSSS	16 10.00	
TTA	74.53	333	ePc	01 37.10	-0.5
IFR	75.29	58	iP	01 43.00	0.3
SDN	75.70	325	ePc	01 45.20	0.9
DAG	75.84	12	iPc	01 43.10	-1.7
	1.3s	769.00nm			6.5mb
			iS	11 27.00	
MAL	75.84	54	iPc	01 47.00	1.5
	1.2s	13.50nm			4.8mb X
			iPP	04 12.00	
			iS	11 55.00	
TOL	76.12	51	iP+	01 47.50	0.4
			iPP	04 55.00	
			iPPP	06 28.00	
			iS	11 39.00	
			i(PS)	12 25.00	
			iSS	16 15.00	
			iSSS	20 00.00	
			i	21 50.00	
CRT	76.49	54	iP	01 51.60	2.3
			iS	11 46.10	
ALR	76.96	55	eP	01 50.00	-1.8
			i	02 04.00	
ESK	77.18	35	eP	01 52.00	-0.6
	1.5s	1400.00nm			6.8mb
EKA	77.20	35	Pc	01 51.70	-1.1
	1.2s	118.00nm			5.8mb
LGR	77.29	48	iPc	01 55.00	1.4
			ePP	04 58.00	
			eS	11 54.00	
ALM	77.41	54	iPc	01 53.70	-0.6
	1.3s	4.10nm			4.3mb X
N	30s	2.10um			
E	20s	6.00um			
			iPP	05 12.40	
			iS	12 38.70	
KIC	77.64	85	iPc	01 56.20	0.2
			iS	12 37.20	
LPF	78.32	43	eP	01 58.70	-0.3
GRR	78.44	42	iPc	01 59.70	0.0
	1.5s	1220.00nm			6.7mb
FLN	78.69	42	iPc	02 01.00	-0.1
	1.5s	1050.00nm			6.6mb
ANM	78.86	334	ePc	02 02.50	0.8
ALI	78.92	53	iP-	02 04.00	1.5
			eS	12 21.00	
LDF	78.93	42	iPc	02 02.10	-0.3
	1.5s	1150.00nm			6.6mb
MFF	78.94	44	iPc	02 02.40	-0.1
	1.6s	800.00nm			6.4mb
EPF	79.38	48	iPc	02 05.30	0.3
LFF	79.60	46	iPc	02 06.30	0.2
LPO	79.93	46	iPc	02 08.00	0.1
LSF	80.11	45	iPc	02 08.60	-0.2
RJF	80.14	45	iPc	02 09.10	0.1
NKI	80.54	322	ePc	02 11.70	0.8
CAF	80.54	46	iPc	02 11.20	0.0
TCF	80.58	44	iPc	02 10.90	-0.4
	1.7s	685.00nm			6.3mb
MZF	80.84	45	iPc	02 12.30	-0.4
	1.2s	513.00nm			6.3mb
AVF	81.34	44	iPc	02 14.50	-0.7
	1.6s	524.00nm			6.3mb
SSF	81.43	44	iPc	02 15.10	-0.6
	1.5s	515.00nm			6.3mb
LOR	81.65	43	iPc	02 16.40	-0.5
SMF	81.68	44	iPc	02 16.50	-0.6
	1.6s	537.00nm			6.3mb
LBF	81.75	44	iPc	02 16.60	-0.9
	1.8s	549.00nm			6.3mb
UCC	81.76	40	Pd+	02 17.00	-0.3
			PP	05 38.00	
			SKS	12 38.00	
			SS	17 58.00	
DOU	81.95	41	Pc+	02 18.00	-0.4
	1.5s	1070.00nm			6.6mb
			e	02 25.20	
			PP	05 38.00	
			SKS	12 38.00	
			e	13 02.00	
			PS	13 35.00	
DBN	82.18	38	iP+	02 19.00	-0.5
Z	20s	112.00um			7.2Msz
			iS	12 44.00	
			ePS	13 36.00	
			eSS	18 16.00	
			e	21 40.00	
			e	24 52.00	
SSB	82.27	45	iPc	02 20.40	0.2
ENN	82.75	40	ePc	02 22.00	-0.5
	1.1s	417.00nm			6.4mb
			e	02 29.00	
			e	02 38.50	
WLF	82.99	41	P+	02 30.00	6.3X
			SKS	12 51.00	
			e	13 03.00	
			PS	13 46.00	
WIT	83.03	38	ePd	02 25.00	1.1
	1.0s	813.00nm			6.7mb
			e	02 32.50	
			e	02 40.00	
WTS	83.19	39	iPc	02 24.60	-0.1
	1.0s	549.00nm			6.6mb
			e	02 31.50	
			e	02 41.00	
HAU	83.27	43	eP	02 25.20	-0.1
BSF	83.59	43	eP	02 26.60	-0.4
BAF	83.72	43	iPc	02 27.00	-0.7
LRG	83.73	47	eP	02 28.00	0.3
	1.6s	496.00nm			6.3mb
ECH	83.79	42	iPc	02 27.60	-0.3
CDF	83.85	42	eP	02 28.10	-0.2
LMR	83.85	47	eP	02 28.30	0.0
	1.8s	648.00nm			6.4mb
FRF	83.93	47	iPc	02 28.70	0.0
	1.6s	578.00nm			6.4mb
GWF	84.01	41	iPc	02 29.00	-0.1
ILT	84.09	338	P	02 30.00	1.0
DIX	84.19	44	eP+	02 30.70	0.4
TNS	84.41	40	ePc	02 31.40	0.4
BUH	84.45	42	ePc	02 31.00	-0.3
NB2	84.57	29	P	02 31.20	-0.4
	1.6s	2240.00nm			7.0mb
MMK	84.58	44	eP+	02 33.00	0.8
ZUL	84.70	43	eP+	02 32.30	-0.2
SLE	84.73	43	eP+	02 32.20	-0.5
HAM	84.91	37	iPc	02 34.60	1.3
STU	85.07	42	iPc+	02 34.00	-0.3
	1.3s	577.00nm			6.6mb
Z	20s	199.00um			7.5Msz
LLS	85.19	43	eP+	02 35.50	0.3
TMA	85.20	44	eP+	02 35.10	-0.2
ADK	85.40	322	iPc	02 37.30	1.4
CVF	85.67	48	iPc	02 37.30	-0.2
	1.5s	653.00nm			6.6mb
HFS	85.92	30	iP	02 22.60	-15.7X
Z	30s	8.50um			6.0MszX
COP	86.02	34	iPd	02 39.00	0.2
	1.2s	1130.00nm			7.0mb
			iS	13 07.00	
GRFO	86.25	40	P	02 40.20	0.0
GRF	86.25	40	iPc	02 40.60	0.4
Z	21s	336.00um			7.7Msz
			e	02 46.30	
			eSKS	13 27.00	
			e	14 22.00	
			e	14 31.00	
MOX	86.35	39	iPc	02 41.00	0.3
	1.7s	1460.00nm			6.9mb
Z	22s	186.00um			7.4Msz
N	22s	112.00um			
E	22s	108.00um			
			ePP	06 15.00	
			eSKS	13 10.00	
			ePS	14 25.00	
			iSS	19 20.00	
			eSSS	22 50.00	
			eP'P'	28 58.00	
GAP	86.50	43	eP	02 42.30	0.8
	1.5s	900.00nm			6.8mb
FUR	86.53	42	eP	02 42.00	0.4
	1.9s	2150.00nm			7.1mb
Z	22s	179.00um			7.4Msz
			eS	13 37.00	
OGA	86.56	43	iPc	02 42.40	0.4
HOF	86.57	40	iPc	02 41.50	-0.3
	1.8s	1450.00nm			6.9mb
			eS	13 04.00	
BRN	87.03	38	iPc	02 44.80	0.9
KIR	87.07	22	iP	02 43.40	-0.5
CLL	87.11	39	iPc	02 44.60	0.3
	1.7s	1400.00nm			6.9mb
			iS	13 34.00	
			P'P'	28 53.00	
FIR	87.22	46	eP	02 44.00	-0.9
			eS	12 45.00	
WET	87.41	41	iPc	02 46.20	0.3
			eS	13 43.00	
BHG	87.67	42	iPc	02 47.20	0.1
	1.6s	1790.00nm			7.1mb
BRG	87.77	39	iPc	02 47.80	0.3
	1.6s	720.00nm			6.7mb
			i	02 57.10	
			eSKS	13 21.10	
KHC	87.87	41	iPc	02 48.40	0.4
	1.5s	490.00nm			6.5mb
Z	22s	93.10um			7.2Msz
N	22s	90.70um			
E	21s	25.20um			
			PP	06 16.90	
			S	13 38.00	
UPP	87.91	30	iP	02 46.30	-1.6
	1.3s	1400.00nm			7.0mb
			i	02 52.70	
			i	03 04.00	
			iS	13 17.00	
KBA	88.09	43	ePc	02 49.30	-0.1
	1.7s	1280.00nm			6.9mb
			i	02 56.20	
			ipP	03 00.20	34kmX
			iPP	06 28.80	
			iS	13 25.80	
PRU	88.32	40	Pc	02 50.50	0.4
	1.8s	922.00nm			6.8mb
Z	23s	240.00um			7.5MszX
			PP	06 30.00	
			e	12 38.00	
			S	13 42.00	
			iPS	14 48.00	
			iSS	19 40.00	
			e	28 32.00	
KMR	88.43	42	iP+	02 50.80	0.1
TRI	88.64	44	iPd	02 48.60	-3.1X
			iPcP	02 57.40	
			iPP	05 45.00	
			e	06 13.90	
			i	07 04.00	
			eS	12 31.00	
			e	13 26.60	
			iSP	13 38.00	
			e	13 46.40	
			iSPP	14 10.00	
			iSS	18 10.00	
			iSSS	21 40.00	
KEV	88.72	19	iPc+	02 51.00	-0.7
	1.0s	66.00nm			5.9mb
			i	02 58.80	
			ePP	06 27.00	
			eS	13 40.00	
KHE	88.75	6	iPc	02 52.00	0.3
	2.0s	660.00nm			6.6mb
Z	18s	210.00um			7.6Msz

03d 03h

			iPP	06 18.00	
			iS	13 40.00	
CEY	89.08	44	ePc	02 54.00	0.1
LJU	89.10	44	iPc	02 54.20	0.2
			eS	13 29.50	
			eSS	19 00.00	
KSP	89.23	39	iPc	02 54.70	0.2
	1.7s		863.00nm		6.8mb
			eS	13 28.50	
			e	13 50.50	
			e	15 15.50	
SOD	89.48	21	iP	02 54.40	-0.9
VKA	89.82	41	ePc	02 57.60	0.3
			epP	03 08.40	34kmX
			i	03 15.80	
			ePP	06 36.50	
			i	06 48.80	
			SKKS	13 40.60	
ZST	90.35	41	iP	02 58.90	-0.8
	Z 23s		268.00um		7.6MszX
			i	03 05.30	
			i	03 15.90	
			i(PP)	06 42.40	
AFI	90.74	256	e(P)	03 08.00	5.8X
			S	13 56.00	
			eSS	19 40.00	
			eSSS	23 20.00	
SUF	90.99	26	iP	03 02.20	-0.2
	1.1s		130.00nm		6.3mb
NUR	91.09	28	iP	03 02.70	-0.1
	1.3s		63.60nm		5.9mb
			i	03 07.90	
			iPP	06 51.00	
			eSKS	12 40.00	
KJF	91.09	24	iPc+	03 03.00	0.2
	1.2s		127.00nm		6.2mb
			i	03 12.00	
			iPP	06 08.00	
			eSKS	13 04.00	
			eS	13 56.00	
SRO	91.23	41	eP	03 01.60	-2.2
	Z 24s		133.00um		7.3MszX
			ePP	06 50.00	
			e(S)	13 55.00	
KRA	91.69	39	iPc	03 06.20	0.4
	1.3s		672.00nm		6.9mb
	Z 26s		173.00um		7.4MszX
	N 26s		108.00um		
			i	03 12.20	
			i	03 17.00	
			i	03 33.00	
			e	06 48.00	
			e	13 32.00	
APA	91.75	20	P	03 05.30	-0.5
BUD	91.78	42	iPKPc	03 07.00	0.7
	1.4s		80.00nm		6.0mb
SPC	92.11	40	eP	03 08.10	0.0
			i	03 19.30	
			e(PP)	06 57.60	
PSZ	92.23	41	iP	03 09.20	0.7
JOS	92.49	40	iPc	03 10.00	0.4
	1.4s		90.00nm		6.0mb
UZH	93.57	40	iPc	03 16.50	2.0
			ePS	15 45.00	
			e	20 50.00	
TIM	93.70	43	iPc	03 16.00	0.8
PUL	93.99	28	ePc	03 16.00	-0.2
			iSKS	13 53.00	
			e	21 00.00	
LVV	94.28	38	iPc	03 17.80	0.0
	9.0s		9500.00nm		7.2mb X
			iPP	07 04.00	
			iPS	15 53.00	
			iSS	20 49.00	
SSR	94.30	44	iP	03 19.00	1.0
BMR	94.63	41	ePd	03 27.00	7.6X
OHR	94.68	47	eP	03 17.20	-2.7
			iPcP	03 26.90	
			iPP	07 28.20	
			iS	13 58.00	
SKO	94.91	46	iPc	03 21.00	0.1
			iPcP	03 27.40	
			iPP	07 12.50	
			iSKS	13 36.50	
			iS	14 06.00	
CLO	94.96	43	iPd	03 31.50	10.5X
SRE	95.36	43	eP	03 31.00	8.1X
VAY	95.91	47	eP	03 26.20	0.8
COZ	95.92	43	iPd	03 15.50	-10.2X
VTS	95.98	45	iP	03 27.00	1.3
CMP	96.40	42	ePc	03 33.00	5.3X
MLR	96.93	42	ePc	03 30.00	-0.2
CVO	96.97	42	iPd	03 31.50	1.3
SEY	97.04	338	iPc	03 31.00	0.9
	2.4s		610.00nm		6.7mb
			ePP	07 28.00	
			ePS	16 23.00	
			e	21 40.00	
TIK	97.08	350	P	03 29.50	-0.7
PVL	97.18	44	iPd	03 32.00	0.8
BAC	97.19	41	eP	03 30.00	-1.1
VRI	97.32	41	eP	03 30.00	-1.7
BUC1	97.37	43	eP	03 36.00	4.0X
CLI	97.44	41	eP	03 30.00	-2.3
ISR	97.45	42	eP	03 30.00	-2.4
ATH	97.74	50	iPc	03 36.00	2.3
			iPP	07 37.00	
			iPS	16 42.00	
PPE	97.77	41	eP	03 40.00	6.2X
KDZ	97.80	46	iP	03 27.00	-7.0X
DIM	97.83	45	eP	03 42.00	7.9X
KIS	98.28	40	eP	03 36.50	0.5
			iSKS	14 17.00	
			iS	14 54.00	
			iPS	16 33.00	
SPA	98.64	180	ePc	03 37.40	0.1
	1.3s		105.00nm		6.2mb
	Z 20s		13.50um		6.4Msz
EZN	99.09	47	eP	03 41.00	1.2
OBN	99.12	30	iPd	03 39.00	-0.6
	2.0s		1200.00nm		7.1mb
	Z 20s		147.00um		7.5Msz
	N 20s		53.00um		
	E 20s		105.00um		
			iPP	07 48.00	
			eSKS	14 12.00	
			iPS	16 42.00	
			eSSS	25 40.00	
MGD	99.29	336	P	03 41.40	1.0
MOS	99.33	30	eP	03 40.00	-0.6
	2.0s		550.00nm		6.7mb
			iPP	07 49.00	
			eSKS	15 20.00	
PET	99.35	327	P	03 45.00	4.3X
NVL	99.80	160	eP	03 49.00	6.6X
	Z 20s		43.00um		7.0Msz
	N 20s		11.00um		
	E 20s		23.00um		
			epP	03 58.00	28kmX
EDC	100.02	46	ePdiff	03 45.00	0.9
CTT	100.14	46	iPdiff	03 48.60	4.0X
IZM	100.25	48	ePdiff	03 52.00	6.8X
IST	100.58	45	e(Pdif	04 04.00	17.5X
ISK	100.62	45	ePdiff	03 51.00	4.3X
BCAO	100.84	84	(Pdiff	03 48.00	-0.4
BNG	100.85	84	iPdiff	03 48.60	0.2
	1.0s		15.00nm		5.5mb
CIN	101.14	49	iPdiff	03 52.50	3.4X
			i	08 11.80	
YER	101.44	49	ePdiff	03 57.00	6.4X
GPA	101.79	46	ePdiff	03 54.00	2.0
NRI	101.85	3	iPdiff	03 52.00	0.5
	2.2s		190.00nm		6.3mb
	Z 26s		200.00um		7.5MszX
	N 26s		290.00um		
	E 26s		160.00um		
			iPP	08 05.00	
			eSS	22 30.00	
SKR	101.88	326	ePdiff	03 56.00	3.9X
SIM	102.46	40	ePdiff	04 00.00	5.2X
			ePPP	10 24.00	
			eSKS	14 34.00	
			eS	15 39.00	
			ePS	17 20.00	
BCK	103.04	48	ePdiff	04 02.00	4.3X
ANN	104.51	39	ePdiff	04 08.00	4.1X
WEL	104.76	230	ePdiff	04 18.00	12.9X
			PP	08 35.00	
			e	14 20.00	
			SKS	14 53.00	
			SS	23 00.00	
YAK	105.02	345	iPdiff	04 05 40	-0.4
CER	105.10	122	e(Pdif	04 04.00	-2.9X
SOC	106.66	40	ePdiff	04 21.00	7.5X
			ePS	18 00.00	
ARU	107.86	21	ePdiff	04 21.50	2.9X
	2.4s		150.00nm		6.7mb
			ePP	08 45.00	
			eSKS	14 51.00	
			eSS	23 52.00	
SVE	108.25	20	ePdiff	04 28.10	7.8X
	4.0s		460.00nm		7.0mb X
PYA	108.49	38	iPdiff	04 26.00	4.3X
			iPP	08 55.00	
JER	108.73	52	ePdiff	04 24.00	0.9
KUR	109.46	324	ePdiff	04 39.00	13.1X
			eSS	24 18.00	
PKR	109.77	119	e(Pdif	04 41.00	13.1X
KIM	109.82	117	ePdiff	04 44.20	16.0X
			e	08 42.00	
BKR	110.01	40	iPdiff	04 31.40	2.7X
	2.0s		2300.00nm		
			iPS	18 32.00	
			iPPS	19 42.00	
SWZ	110.32	116	ePdiff	04 43.50	13.1X
GRO	110.45	37	ePdiff	04 36.00	5.6X
	Z 24s		126.00um		7.4MszX
	N 24s		98.00um		
	E 24s		155.00um		
			iSKS	15 30.00	
			iPS	18 37.00	
LEN	110.74	40	ePdiff	04 38.00	6.0X
MTA	110.84	39	ePdiff	04 35.00	2.9X
	Z 20s		50.00um		7.1Msz
	N 20s		42.00um		
	E 20s		40.00um		
			ePP	09 13.00	
			eSKS	15 33.00	
GRM	111.19	122	e(Pdif	04 45.00	11.0X
	Z 20s		52.00um		7.1Msz
YSS	111.19	328	iPdiff	04 40.00	6.4X
			iPP	09 20.00	
			eSP	18 38.00	
VIR	111.67	117	e(Pdif	05 00.00	23.6X
MAK	111.69	37	ePdiff	04 44.50	8.6X
	7.0s		2900.00nm		
KSR	111.75	114	e(Pdif	04 49.60	12.8X
			e	08 40.70	
BOD	112.19	350	ePdiff	04 37.50	-0.3
	1.0s		10.00nm		
			ePP	09 16.30	
SEK	112.34	117	e(Pdif	04 29.00	-10.4X
			e	08 15.00	
KRV	112.38	39	ePdiff	04 45.00	5.9X
			iPP	09 30.00	
BPI	112.76	115	e(Pdif	04 54.00	12.6X
			e	08 35.00	
PRE	112.91	114	e(Pdif	04 41.00	-1.0
	1.5s		480.00nm		
SLR	113.00	114	ePdiff	04 54.00	11.6X
	Z 18s		172.00um		7.7Msz
			S	17 55.50	
GRS	113.03	40	Pdiff	04 49.00	6.8X
BUL	113.32	108	ePdiff	04 57.00	13.1X
BUL	113.32	108	ePKP	08 43.00	5.4X
	Z 19s		68.10um		7.3Msz
	N 19s		11.80um		
	E 19s		6.94um		
			iPKKP	19 31.00	
TAB	113.82	42	ePdiff	04 48.00	2.3X
			e	09 37.00	
			e	19 35.00	
KOU	114.08	251	iPKPd	08 53.30	14.4X
TUP	114.18	345	ePdiff	04 52.90	6.2X
	1.8s		30.00nm		
KRI	114.18	105	iPKP	08 44.00	4.6X
			iPKKP	19 28.00	
DRV	115.16	198	ePKP	08 47.00	7.5X
MTD	116.06	104	iPKP	08 48.00	5.1X
			iPKKP	19 18.00	
TET	117.96	104	ePKP	08 54.00	7.7X
			i	10 09.00	
			i	19 18.00	
IR7	117.98	42	(PKP)	08 36.00	-10.1X
IRK	118.94	355	ePdiff	05 12.00	4.0X
			eSKS	15 52.00	
			eSP	19 46.00	
			eSS	26 30.00	
			eSSS	30 48.00	
VLA	119.36	331	ePKP	08 48.00	-0.2
			iPP	10 13.00	

VLA	119.36	331	iPdiff	05	15.00		4.9X
SEM	119.39	12	ePdiff	05	23.20		13.2X
NAI	119.79	86	iPKPc	08	53.20		3.0X
	1.0s		20.00nm				
DDR	120.31	321	ePKP	08	56.00		5.6X
OYM	120.64	320	ePKP	08	56.50		5.5X
ZAK	120.90	355	ePKP	08	50.40		-0.5
			ePP	10	22.00		
			eSKS	16	04.00		
			eSS	26	45.00		
ZAK	120.90	355	ePdiff	05	21.50		4.8X
	2.0s		10.00nm				
VAN	121.17	35	ePdiff	05	19.00		0.8
			eSKS	16	00.00		
			eSSS	31	30.00		
ASH	121.31	35	ePKP	08	53.00		0.9
			ePP	10	25.00		
			ePPP	13	07.00		
			eSP	20	11.00		
			eSPP	21	30.00		
			iPPS	21	45.50		
ARO	122.66	70	ePKP	09	02.00		6.6X
SHI	122.80	46	e(PKP)	08	50.00		-5.5X
NPA	123.41	102	ePKP	09	03.00		6.2X
			e	10	42.00		
KHI	124.08	38	e(PKP)	08	56.00		-1.9
TAS	124.15	25	ePKP	08	58.00		0.4
			ePP	10	44.80		
			eSKS	16	00.00		
			eSP	20	35.00		
TAS	124.15	25	ePdiff	05	34.00		2.5X
COO	124.38	239	ePKP	08	58.00		-0.4
SAM	124.49	28	PKP	09	01.00		2.7X
SAM	124.49	28	ePdiff	05	40.00		6.9X
FRU	124.85	20	ePKP	09	02.00		3.1X
	Z 22s		117.00um				7.5Msz
	N 20s		80.00um				
	E 22s		105.00um				
			esPKP	09	16.00		
			iPP	10	47.00		
			iPPP	13	30.00		
			eSP	20	38.00		
			i	28	00.00		
			eSS	32	18.00		
FRU	124.85	20	ePdiff	05	46.00		11.4X
RAB	124.89	271	ePKP	08	58.00		-1.7
AAA	125.19	18	iPKPc	09	04.00		4.4X
			isPKP	09	18.00		
			iPP	10	50.00		
SHK	125.24	324	ePKP	09	00.50		0.7
TLG	125.33	17	iPKP	08	59.80		0.0
			iPP	10	55.00		
TLG	125.33	17	ePdiff	05	42.50		5.7X
WAM	125.48	232	ePKP	09	04.60		4.4X
CAN	125.63	233	ePKP	09	03.40		2.7X
ANR	125.86	23	ePKP	09	02.40		1.5
			eSKS	16	03.40		
ANR	125.86	23	ePdiff	05	58.60		19.5X
	6.0s		600.00nm				
KVG	126.02	273	ePKP	09	01.00		-1.0
DSH	126.20	27	PKP	09	01.50		-0.2
DSH	126.20	27	ePdiff	05	46.00		5.2X
PRZ	126.34	17	ePKP	09	02.50		0.5
	3.0s		1000.00nm				
			ePP	11	03.00		
			ePPP	13	41.50		
			eSKS	16	02.50		
YOU	126.41	234	ePKP	09	05.50		3.3X
GAR	126.52	26	ePKP	09	00.10		-2.3
			iSPP	22	30.40		
			iSSS	32	40.40		
NRN	126.56	19	PKP	09	02.60		-0.1
KUL	127.18	27	ePKP	09	03.30		-0.3
			iPP	11	01.80		
KUL	127.18	27	ePdiff	05	47.80		2.7X
GUA	127.42	294	PKP	09	09.00		4.4X
GUMO	127.44	294	PKP	09	11.60		7.0X
TOO	127.61	229	ePKP	09	03.00		-1.4
KHO	128.31	26	ePKP	09	04.40		-1.5
	Z 18s		6.40um				6.3Msz
	N 18s		9.00um				
	E 18s		6.40um				
			ePP	11	16.00		
			eSP	21	12.00		
KSH	128.32	21	ePKP	09	07.00		1.2
			PP	11	14.00		
HHC	128.87	346	PKPc	09	07.60		0.8
			PP	11	32.00		
			PKS	12	40.00		
BTO	129.47	347	ePKP	09	06.00		-1.9
			PKS	12	42.00		
KBL	129.57	30	e(PKP)	09	01.00		-7.5X
LAT	130.29	269	ePKP	09	09.00		-1.1
PMG	130.35	265	e(PKP)	09	09.00		-1.2
	Z 18s		40.50um				7.2Msz
CTA	130.99	251	iPKP	09	11.20		-0.1
AVY	131.37	107	ePKPc	09	13.30		1.1
GTA	132.06	357	ePKP	09	07.90		-5.0X
			PKS	12	44.00		
MVI	132.09	317	ePKP	09	14.00		0.9
			e	12	50.00		
STK	132.56	234	ePKP	09	12.00		-1.9
ADE	133.67	229	e(PKP)	09	21.00		5.0X
SSE	134.07	331	PKP-	08	59.00		-17.8X
	Z 18s		62.90um				7.4Msz
	N 18s		78.70um				
	E 18s		54.10um				
			PP	11	52.00		
			PKS	12	48.00		
			PPP	14	44.00		
			SKS	15	58.00		
			PS	22	16.00		
			PPS	23	58.00		
			SS	29	56.00		
			SSP	30	42.00		
			SSS	35	48.00		
TZZ	135.85	271	ePKP	09	20.00		-0.8
JAY	135.96	275	iPKPd	09	21.00		0.1
ISQ	137.14	249	ePKP	09	14.00		-8.9X
WHN	137.52	337	PKP	09	20.30		-3.0X
			PP	12	10.00		
			PKS	12	52.00		
ANP	138.63	325	ePKP+	09	12.00		-13.7X
CD2	140.07	351	ePKP	09	25.00		-3.0X
			ePP	12	24.50		
			SKS	16	32.00		
QZH	140.41	328	PKPd	09	26.00		-2.7X
			PP	12	38.00		
			SKS	16	27.00		
LSA	141.43	8	ePKP	09	29.70		-1.4
			PP	12	43.70		
ASPA	141.58	243	ePKP	09	25.00		-6.0X
KKN	142.04	17	iPKPc	09	26.90		-5.0X
	1.2s		89.00nm				
WB2	142.08	249	ePKP	09	25.80		-6.1X
			i	09	37.10		
			i	09	45.60		
			ePP	14	17.20		
			e	20	06.30		
WRA	142.09	249	PKPd	09	26.30		-5.6X
	1.1s		70.70nm				
DMN	142.16	17	iPKPc	09	27.20		-5.0X
	1.1s		94.00nm				
PKI	142.28	17	iPKPc	09	27.40		-5.1X
	1.2s		80.00nm				
GYA	143.78	345	PKP	09	31.00		-3.8X
CVP	143.99	317	iPKPd	09	34.00		-1.1
PIP	144.34	319	iPKPd	09	25.50		-10.2X
GZH	144.52	333	PKPc	09	35.00		-0.9
			i	09	39.50		
			PP	12	56.00		
POO	144.68	40	iPKPc	09	34.20		-2.2
	1.6s		1000.00nm				
HKC	144.82	331	iPKP	09	37.00		0.5
			iS	12	58.00		
CNP	145.25	307	iPKPd	09	40.00		2.6X
MCO	145.26	332	iPKP	09	37.70		0.5
BAG	145.74	317	ePKP	09	37.20		-1.2
	1.4s		1060.00nm				
KMI	145.90	350	iPKPc	09	38.50		-0.1
			PP	13	06.00		
			PKS	13	13.00		
MTN	146.09	260	ePKP	09	39.00		0.2
MAN	146.60	314	ePKPc	09	42.00		2.4
QCP	146.61	314	ePKP	09	50.00		10.4X
WBN	146.88	235	iPKPd	09	39.70		-0.2
CCP	147.10	305	ePKP	09	41.00		0.6
DAV	147.36	298	ePKP	09	40.00		-0.9
	1.5s		867.00nm				
PGP	147.46	312	iPKPd	09	43.00		2.0
	1.4s		448.00nm				
KLG	148.22	223	iPKPc	09	44.50		2.7X
HYB	148.37	35	ePKPc	09	41.50		-0.9
	1.2s		557.00nm				
AAI	148.46	277	ePKPc	09	43.10		0.4
	0.9s		97.30nm				
NWAO	149.40	215	ePKP	09	44.00		0.4
MNI	150.34	289	ePKP	09	51.90		6.4X
	1.1s		602.00nm				
GBA	150.63	41	PKP	09	46.00		0.1
	0.9s		14.00nm				
MUN	150.68	215	ePKP	09	45.00		-0.5
CHG	152.58	356	iPKPc	09	48.80		0.1
	1.0s		17.50nm				
			e	14	44.00		
KOD	153.05	46	ePKP	09	50.40		0.6
			ePP	13	59.00		
KUPT	153.57	265	ePKP	10	07.00		16.8X
BDT	154.14	355	iPKPc	09	50.30		-0.5
	1.1s		146.00nm				
KKM	155.77	307	ePKPd	09	54.40		1.1
PCT	156.34	349	ePKP	09	55.30		1.5
			i	10	24.20		
MKS	157.29	277	e(PKP)	10	03.00		7.9X
TRT	164.35	272	iPKPc	10	02.50		0.0
BSI	165.81	6	ePKPd	10	20.50		16.8X
IPM	166.17	342	ePKPd	10	04.70		0.6
			e	11	01.70		
			e	14	55.20		
KGM	167.56	329	ePKPc	10	04.00		-1.1
			e	11	18.00		
TSI	167.76	352	e(PKP)	10	10.00		4.8X
PSI	168.49	350	iPKPd	10	05.70		0.0
	1.0s		34.50nm				
PPI	171.08	336	ePKP	10	06.30		-0.8
	S.D. = 1.0		on 370 of 512 obs.				

APR 04, 1983 02h 51m 34.38± 0.33s
5.739 N ± 1.6km 94.740 E ± 1.4km
DEPTH = 78.4 ± 2.9 km
6.7mb (110 obs.)
NORTHERN SUMATERA (706)
About 100 people injured ond damoge in the Bando Aceh area. Felt at Pinang, Malaysia.

BSI	0.62	112	iPd	51	49.00		-0.3
TSI	4.41	120	iPd	52	41.10		0.7
PSI	5.15	126	iPd	52	51.20		0.5
SNG	6.01	76	iPc+	53	03.00		0.3
	Z 22s		15.60um				
	N 20s		26.60um				
	E 22s		24.10um				
IPM	6.37	100	iPd	53	07.00		-0.6
			iS	54	22.40		
			i	55	01.80		
			i	55	27.70		
			i	56	10.20		
			e	57	26.20		
KLM	7.37	111	iPc	53	21.20		-0.1
			iS	54	35.20		
PPI	8.35	137	iPd	53	32.50		-2.4
			iS	03	29.00		
KGM	9.32	113	ePd	53	48.20		0.0
			i	55	06.00		
			i(S)	55	30.00		
			i	56	40.00		
PCT	11.04	36	eP	54	14.30		2.8
			e	54	15.90		
BDT	12.17	20	eP	54	27.60		1.1
	0.6s		393.00nm				6.5mb
CHG	13.63	17	iPc+	54	47.80		2.1
	1.0s		194.00nm				5.5mb X
	Z 18s		5.67um				
	N 18s		5.15um				
	E 18s		5.33um				
			eS	02	12.00		
KOD	17.68	286	iP	55	38.00		0.7
LEM	17.92	134	iPd	55	37.50		-2.6
	1.0s		80.00nm				4.9mb X
GBA	18.75	296	P	55	49.90		-0.1
HYB	19.63	308	iPd	55	59.00		-0.5
KMI	20.74	21	iPc	56	13.00		1.8
	E 12s		104.00um				
			sP	56	44.00		
			S	59	55.00		
BKB	23.14	107	iPd	56	38.50		3.9X
	1.0s		1600.00nm				6.4mb
GYA	23.54	28	Pc	56	40.00		1.4
			pP	57	04.00		114kmX
			S	00	44.00		

04d 02h

DMN	23.60	338	iPc	56	38.70	-0.6					pP	59	12.00	107kmX	MUN	42.72	153	iPc	59	25.50	0.0	
KKN	23.70	339	iPc	56	39.00	-1.3					PP	00	20.00		KUM	42.97	47	P+	59	28.50	1.1	
POO	24.02	304	iP	56	45.00	1.8					iS	04	35.00					e	01	16.00		
	1.6s	3270.00nm			6.5mb		WMQ	38.43	352	iPc	58	50.40	0.3		KLB	43.14	151	iPc	59	28.50	-0.3	
LSA	24.07	352	P	56	44.00	-0.1					PP	00	24.00		KHI	43.75	315	iPd	59	34.00	0.0	
			pP	57	06.40	104kmX					iS	04	36.00		NWAO	43.99	152	eP	59	35.00	-0.7	
			S	00	55.40						ScS	08	54.00		WBN	44.25	137	iPc	59	37.20	-0.7	
MCO	24.42	46	iP	56	48.60	1.6	BJI	39.22	26	eP	58	58.00	1.4			0.8s	290.00nm			6.2mb		
GZH	24.88	44	iPc	56	52.50	1.1		E 24s	213.00um						MHI	44.35	318	iPd	59	38.20	-0.6	
			pP	57	14.50	102kmX					pP	59	20.00	93kmX				e	00	03.00		
			S	01	14.00						sP	59	32.00					e	01	24.00		
HKC	24.98	47	iP	56	54.00	1.7					PP	00	35.00					eS	05	23.00		
CD2	26.43	18	iPc	57	05.20	-0.6					PPP	00	58.00		KLG	44.41	146	iPc	59	38.60	-0.6	
			PPP	57	59.20						eS	04	51.00		ZAK	45.07	8	iPc	59	44.00	-0.1	
			iS	01	31.50						esS	05	26.00			1.8s	1790.00nm			6.6mb		
PGP	26.95	71	iPd	57	12.00	1.5					SS	08	54.00			Z 27s	137.00um			6.8MszX		
	1.2s	800.00nm			6.1mb						ScS	09	50.00			N 24s	65.40um					
MKS	26.98	113	iPc	57	10.60	-0.3	KUL	39.26	328	eP	58	56.10	-1.0			E 26s	75.60um					
	1.0s	3990.00nm			6.9mb			3.8s	*******	nm			7.1mb X					ePcP	01	25.00		
NDI	28.22	326	iPd	57	20.50	-1.4		N 22s	168.00um									ePP	01	27.00		
	0.7s	253.00nm			6.0mb			E 22s	255.00um									iS	06	15.50		
			iS	02	01.00						iPP	00	34.80					eScS	09	28.00		
CVP	29.01	63	ePd	57	29.00	-0.1					iPPP	00	56.70		SHK	45.25	46	iPc	59	45.00	-0.9	
QZH	29.79	48	iPc	57	36.50	0.5					iS	04	47.80					eS	05	10.50		
			pP	58	03.00	122kmX					iSS	07	45.80		KOC	45.39	47	P+	59	48.00	1.1	
			PP	58	42.50						iSSS	08	21.30					e	06	38.00		
CGP	29.84	83	iPd	57	37.00	0.4	NRN	39.28	338	P	58	57.20	-0.4		MRT	45.72	48	P+	59	51.00	1.5	
	0.5s	298.00nm			6.3mb		PRZ	39.36	341	P	59	00.00	2.0					e	01	41.00		
DAV	30.67	86	eP	57	44.50	0.6	MEK	39.58	145	iPc	58	59.30	-0.5		MTS	46.00	45	P+	59	52.80	1.1	
	1.7s	4580.00nm			6.9mb		NZJ	39.89	52	P	59	03.90	1.6					S	06	36.00		
WHN	30.81	34	Pc	57	44.90	0.0					eS	05	02.00		ASH	46.05	319	P	59	53.00	1.0	
			pP	58	10.00	114kmX	MVI	40.18	56	P	59	06.00	1.3			4.5s	8370.00nm			7.0mb X		
XAN	31.08	23	iPc	57	46.30	-1.0	ANR	40.22	333	iPd	59	05.50	0.6					ipP	00	21.50	124kmX	
			pP	58	09.00	101kmX		1.5s	4200.00nm				7.1mb					isP	00	28.00		
TATO	31.99	50	eP	57	57.00	1.7		Z 22s	230.00um				7.0Msz					ePcP	01	27.40		
ANP	32.12	50	iP+	57	59.50	2.9		N 22s	250.00um									ePP	01	47.00		
			iS	03	10.00						epP	59	31.00	111kmX	MOY	46.09	5	iPc	59	51.80	-0.3	
KUPT	32.80	119	eP	58	00.00	-2.5					ePP	00	41.00			1.9s	860.00nm			6.3mb		
GTA	33.83	7	iPc	58	10.70	-0.7					iPcP	01	06.70		SEM	46.15	347	iPc	59	52.40	-0.3	
			PP	59	25.00						iS	05	05.60			4.8s	*******	nm		7.3mb X		
			PcP	00	51.10						esS	05	46.60					epP	00	15.80	98kmX	
			iS	03	26.50						iSS	08	05.00					ePcP	01	30.00		
			ScP	04	26.60		DSH	40.27	328	iPd	59	04.00	-1.3					iPPP	02	30.80		
			SS	05	40.00			Z 16s	52.00um				6.5MszX					eS	06	23.00		
			ScS	08	25.40						isP	59	37.50		VAN	46.21	319	P	59	53.00	-0.3	
NJ2	34.54	38	iPc	58	17.80	0.4					iPP	00	38.00			4.0s	8000.00nm			7.0mb X		
			pP	58	38.50	89kmX					iS	05	02.00			Z 20s	96.60um			6.7Msz		
			sP	58	49.00						iSS	08	00.00					ipP	00	20.00	116kmX	
			PP	59	40.00		TLG	40.39	340	iP	59	07.70	1.4					ePP	01	47.00		
			PcP	00	49.50			3.8s	*******	nm			7.5mb X					S	06	34.00		
			iS	03	40.00			Z 17s	77.00um				6.6MszX					eScS	09	40.00		
			ScP	04	24.40						epP	59	32.50	107kmX	OKA	46.21	46	eP+	59	54.00	0.6	
SSE	35.38	41	iPc	58	25.50	1.0					iPP	00	40.50					e	01	51.00		
			PP	59	42.00						iPPP	01	12.50		SHI	46.33	306	iPd	59	54.00	-0.7	
			S	03	49.00						iS	05	09.50		TKS	46.40	47	eP	59	56.00	1.2	
TIY	35.68	24	iPc	58	27.00	0.0					iSS	08	02.50					e	06	40.00		
			pP	58	52.00	108kmX	AAA	40.55	340	iPc	59	09.00	1.4		CN2	46.53	31	iPc	59	54.00	-1.8	
			PP	59	50.00			3.0s	29.00nm				4.6mb X					pP	00	18.00	101kmX	
			S	03	52.00						iPP	00	43.00					sP	00	29.50		
QUE	35.72	316	iPd	58	28.00	0.3					ePcP	01	04.00					PP	01	43.00		
TIA	36.63	31	Pc	58	35.40	0.4					iS	05	12.00					PcS	05	19.00		
			pP	58	58.00	96kmX	MTN	40.60	117	iPc	59	06.50	-1.8					iS	06	34.00		
			sP	59	09.50		FRU	41.01	337	iPc	59	13.00	1.6					ScS	09	37.00		
			PP	00	04.00			3.0s	*******	nm			7.5mb		WRA	46.56	124	Pd	59	56.40	0.0	
			S	04	09.00			Z 18s	120.00um				6.8Msz			0.8s	301.00nm			6.3mb		
			ScP	04	32.20			N 18s	90.00um						WB2	46.57	124	iPc	59	55.40	-1.0	
			PcS	04	45.40			E 18s	128.00um									eP'P'	30	30.20		
			sS	04	48.00						iS	05	20.00		JAY	46.63	99	ePd	59	55.50	-1.6	
KMJ	36.82	53	P	58	37.70	1.0	FKJ	41.57	45	P+	59	17.20	1.2		HIM	46.85	46	eP	00	02.00	3.5X	
			eS	04	20.00						eS	05	26.00		IRK	47.05	B	P	00	00.00	0.2	
KBL	37.23	324	iPd	58	37.70	-2.6	SAM	42.03	328	eP	59	18.00	-1.8		OSA	47.37	47	eP	00	03.00	0.4	
BTO	37.32	19	iPc	58	40.50	-0.3		2.9s	5000.00nm				6.8mb		OSK	47.44	47	eP	00	04.00	0.8	
			pP	59	07.00	115kmX		Z 18s	81.00um				6.6Msz					PP	02	03.30		
			PP	00	11.00			N 20s	102.00um						TZZ	47.68	102	iPc	00	02.00	-3.4X	
			S	04	19.50			E 17s	108.00um						ELT	47.87	353	iPc	00	05.90	-0.2	
NAH	37.46	53	P+	58	44.00	1.9					ipP	59	46.50	125kmX		1.6s	2230.00nm			6.8mb		
			S	04	29.60						iPP	00	59.00			N 24s	72.60um					
KSH	37.60	336	Pd	58	43.00	-0.2					iS	05	30.00					iS	06	57.00		
			sP	59	23.00		TAS	42.09	331	iPd	59	20.90	0.7		ASPA	48.11	129	iPc	00	07.70	-0.8	
			PP	00	14.00			2.0s	7800.00nm				7.2mb		MDJ	49.25	33	iPc	00	18.00	1.0	
			iS	04	21.00			Z 21s	120.00um				6.8Msz					pP	00	41.00	95kmX	
NGO	37.86	53	P	58	47.70	2.2					ipP	59	47.00	113kmX				PP	02	15.00		
			S	04	40.40						ePP	01	03.00					PPP	03	12.00		
KHO	38.03	329	eP	58	46.70	-0.3					iS	05	32.00					ScP	05	25.00		
	4.0s	*******	nm		7.1mb X		KAG	42.23	48	eP+	59	24.00	2.6					PcS	05	35.00		
			epP	59	11.00	105kmX	NGS	42.32	46	P+	59	23.80	1.6					iS	07	18.00		
HHC	38.07	21	iPc	58	47.40	0.2					eS	06	07.00					ScS	09	54.00		

04d 03h

VLA 49.58 36 iPd 00 19.00 -0.5
Z 16s 157.00um 7.1MszX
N 16s 74.00um
E 16s 57.00um
iPP 02 19.00
iS 07 19.00
isS 07 59.00
iScS 10 03.00
TEH 49.73 313 ePc 00 22.00 1.0
NVS 49.88 351 iPc 00 20.00 -1.5
1.2s *******nm 8.0mb X
iS 07 17.30
GUMO 49.95 77 eP+ 00 21.50 -1.2
1.0s 1460.00nm 7.0mb
PJG 49.95 77 eP 00 21.20 -1.5
GUA 49.99 77 eP+ 00 21.50 -1.5
1.0s 1490.00nm 7.0mb
pP 00 25.70 14kmX
eS 07 26.50
MAT 50.17 46 iPc 00 23.40 -0.8
1.5s 1810.00nm 6.9mb
eS 07 28.00
OSH 50.26 49 P 00 24.20 -0.6
OYM 50.43 48 eP 00 25.80 -0.4
DDR 50.65 47 eP 00 25.30 -2.5
KYS 51.01 49 eP 00 28.10 -2.4
ATA 51.21 280 eP 00 33.50 1.2
ISQ 51.25 122 iPd 00 32.20 -0.4
MKL 51.28 280 eP 00 35.50 2.7
TSK 51.41 47 eP 00 31.80 -1.7
TDD 51.52 280 eP 00 36.50 1.8
ARO 51.57 280 iPd 00 36.80 1.7
i 07 55.90
SGH 51.77 280 eP 00 38.50 1.8
DAF 51.88 280 eP 00 39.70 2.3
KSU 51.96 280 eP 00 40.50 2.5
MDG 52.12 101 eP 00 37.00 -2.2
AVY 52.39 241 ePc 00 42.20 0.8
YAM 52.46 45 P+ 00 41.70 0.3
TUP 52.64 18 iPc 00 41.90 -0.5
1.4s 1040.00nm 6.7mb
AKI 52.95 43 eP 00 46.00 1.0
e 08 16.00
MOM 53.16 97 eP 00 45.00 -1.9
ISN 53.21 45 eP 00 46.00 -0.9
LAT 53.59 103 iPd 00 49.00 -1.0
BHD 54.12 307 ePd 00 56.00 2.4
e 03 23.50
eS 08 22.00
eSS 12 13.00
eSSS 14 44.00
BOD 54.15 13 iPc 00 52.40 -1.1
1.0s 1250.00nm 6.9mb
MIY 54.21 44 P+ 00 56.70 2.5
S 08 26.80
PMG 54.36 106 iPc+ 00 54.10 -1.6
HAK 54.37 41 eP 00 55.00 -0.4
e 08 31.00
TAB 54.39 313 eP 00 55.00 -0.8
i 00 57.80
SUT 54.50 40 P 00 56.40 0.1
S 08 32.50
GRS 54.97 315 P 01 00.00 0.0
LMG 55.19 105 iPd 01 00.90 -1.1
e 08 35.00
SAP 55.34 40 eP 01 02.00 -0.3
eS 08 43.00
KRV 55.45 316 iPd 01 01.00 -2.3
ePcP 02 02.00
S 08 34.00
AAE 55.56 277 eP 01 07.70 2.8
MAK 55.78 319 iPc 01 06.00 0.5
3.6s *******nm 7.3mb X
Z 24s 64.00um 6.6MszX
N 24s 39.00um
E 18s 14.00um
ePP 03 05.40
iS 08 33.00
URA 55.87 42 eP 01 07.00 0.8
eS 08 53.00
RMJ 55.96 40 P 01 07.40 0.6
eS 08 51.00
MSL 56.11 310 ePd 01 06.00 -2.1
iPcP 02 09.50
iPPP 04 24.00
iPcS 06 07.50
iS 08 42.00
iPS 09 02.50
iScS 10 47.00
iSS 12 27.00
ASA 56.34 40 P+ 01 10.20 0.6
e 08 54.00
OBI 56.50 41 eP 01 11.00 0.3
e 09 00.00
KVG 56.59 97 eP 01 10.00 -1.8
WAK 56.70 38 eP 01 13.00 0.9
eS 09 03.00
CTA 56.76 118 iPc+ 01 11.70 -1.3
1.2s 844.00nm 6.7mb
iS 08 55.00
MTA 56.95 317 iPc 01 14.00 0.1
Z 25s 25.00um 6.2MszX
N 25s 30.00um
E 25s 24.00um
epP 01 38.00 97kmX
iS 09 00.00
eScS 10 56.00
GRO 57.07 319 P 01 14.00 -0.8
LEN 57.22 315 P 01 19.00 2.9
SVE 57.58 339 iPc 01 17.00 -1.1
9.0s 8500.00nm 6.9mb X
Z 24s 130.00um 7.0MszX
N 24s 59.00um
E 24s 127.00um
iS 09 07.00
iScS 10 56.00
iSS 13 02.00
BKR 57.84 316 iP 01 20.00 -0.4
5.0s 8600.00nm 7.1mb X
epP 01 47.00 111kmX
ePPP 04 56.00
iS 09 12.00
ADE 57.89 138 iPc 01 20.50 -0.2
1.0s 760.00nm 6.8mb
YSS 58.11 37 iPc 01 21.80 -0.2
Z 19s 50.40um 6.7Msz
N 18s 32.00um
E 18s 40.00um
epP 01 46.00 98kmX
ePcP 02 13.20
iPP 03 35.00
iS 09 17.00
eSS 13 06.00
RAB 58.19 98 iPc+ 01 20.00 -3.1X
STK 58.22 133 iPc 01 21.90 -1.1
NEM 58.24 42 eP 01 22.00 -0.9
eS 09 20.00
NAI 58.27 265 iPc 01 26.30 2.4
1.0s 290.00nm 6.4mb
NPA 58.74 249 iP 01 28.00 1.1
e 01 45.00
i(PP) 04 10.00
i 06 10.00
eS 09 30.00
PYA 59.08 319 iPc 01 27.00 -1.9
1.0s 1800.00nm 7.2mb
ipP 01 56.00 120kmX
iPPP 05 06.00
iS 09 20.00
eSPP 09 51.00
iScS 11 10.00
KUR 60.52 40 iPc 01 39.00 0.5
1.0s 1980.00nm 7.2mb
ePcP 02 24.00
ePPP 05 26.00
iS 09 46.00
SOC 61.13 317 iPc 01 41.00 -1.8
2.0s 2500.00nm 7.0mb
ipP 02 07.00 105kmX
eSSS 16 40.00
CMS 61.16 131 eP 01 42.00 -1.2
JER 61.21 303 iPc 01 44.50 0.9
eS 10 24.00
BFD 61.70 138 eP 01 46.00 -0.8
PAA 61.81 100 eP 01 45.00 -2.9
YAK 61.82 18 iPc 01 44.50 -2.7
1.0s 3040.00nm 7.4mb
iS 09 58.40
iSPP 10 26.40
iScS 11 20.40
KVT 62.88 313 iP 01 53.20 -1.4
ANN 63.22 318 iPc 01 53.00 -3.6X
Z 22s 35.00um 6.5Msz
N 22s 41.00um
E 22s 43.00um
epP 02 23.00 123kmX
iS 10 15.00
eScS 11 37.00
NRI 63.72 357 iPc 01 57.30 -2.2
1.0s 240.00nm 6.1mb
epP 02 23.00 103kmX
iS 10 18.00
eSS 14 31.00
eSSS 17 27.00
TOO 63.90 137 iPc+ 02 01.80 0.5
HLW 64.13 300 iP+ 02 03.00 0.0
eS 10 37.00
CAN 65.28 133 iPc 02 10.00 -0.3
ePKKP 30 47.60
SIM 65.38 317 iPc 02 10.00 -0.7
Z 28s 104.00um 6.9MszX
N 30s 66.00um
E 28s 78.00um
eS 10 44.00
COO 65.47 127 iPc 02 12.10 0.5
BCK 66.08 308 iPc 02 12.80 -2.7
KDE 66.29 313 iP 02 14.90 -1.8
MTD 66.30 249 iPc 02 17.00 -0.2
ipP 02 36.00 72kmX
iS 10 58.00
ELL 66.48 308 iPc 02 17.20 -0.9
ALT 66.78 310 iPc 02 18.90 -1.0
GPA 66.89 311 iP 02 19.00 -1.5
MOS 67.20 329 iPc 02 21.00 -1.1
1.7s 9100.00nm 7.4mb
Z 28s 104.00um 6.9MszX
N 23s 87.00um
E 23s 71.00um
iPcP 02 49.00
iPPP 06 29.00
iS 11 01.00
eSP 11 30.00
iScS 12 09.00
eSS 15 28.00
OBN 67.50 328 iPc 02 23.00 -0.9
1.0s 2900.00nm 7.2mb
Z 22s 87.00um 6.9Msz
N 24s 65.00um
E 20s 40.00um
ipP 02 45.00 85kmX
iPcP 02 52.00
ePP 06 30.00
iS 11 02.00
eSPP 11 42.00
eScS 12 10.00
YLV 67.65 312 iP 02 24.30 -1.0
SKR 67.66 37 iPc 02 24.40 -0.7
0.8s 840.00nm 6.7mb
Z 18s 53.80um 6.8Msz
N 22s 28.80um
E 16s 24.80um
iPcP 02 50.80
esP 02 57.20
iPP 04 57.20
iS 11 15.60
eSPP 11 42.40
YER 67.83 308 iPc 02 24.90 -1.6
ISK 67.98 312 iP 02 26.00 -1.3
IST 68.03 312 iPc 02 26.00 -1.6
iS 11 12.00
CIN 68.06 308 iPd 02 27.20 -0.7
i 02 48.50
KRI 68.14 249 iPc 02 28.00 -0.9
ipP 02 47.00 71kmX
eS 11 22.00
CNG 68.41 239 iP 02 30.00 -0.2
i 02 51.00
e(PP) 04 55.00
iS 11 27.00
e(SS) 15 03.00
CTT 68.47 312 iP 02 28.30 -2.0
MGD 68.63 27 P 02 29.20 -1.8
EDC 68.73 311 ePc 02 31.10 -0.9
IZM 68.84 309 iPc 02 32.10 -0.7
JOZ 68.86 238 iPd 02 21.90 -11.1X
DMK 69.10 313 iPd 02 32.80 -1.4
TIK 69.19 11 P 02 32.00 -2.2
KIS 69.47 318 iPd 02 35.50 -0.8
2.0s 3000.00nm 6.9mb
Z 25s 50.00um 6.7MszX
N 25s 25.00um

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	E	25s	60.00um			
				iPcP	03 06.00	
				iPPP	06 56.00	
				iS	11 32.00	
CFR		69.52	316	iPc	02 36.00	-0.7
BUL		69.86	246	iPc	02 40.00	0.7
		0.7s	259.00nm			6.3mb
	Z	18s	30.90um			6.6Msz
	N	18s	27.50um			
	E	18s	22.70um			
				ipP	02 59.00	71kmX
				iS	11 44.00	
PET		69.91	35	P	02 38.00	-0.8
PPE		70.12	317	ePc	02 39.00	-1.3
BIR		70.12	317	eP	02 39.00	-1.3
BRD		70.35	316	eP	02 43.00	1.2
IAS		70.37	318	eP	02 41.00	-0.8
CLI		70.42	317	iPc	02 41.50	-0.7
SEY		70.60	24	iPc	02 42.30	-0.7
		1.4s	1180.00nm			6.6mb
	Z	22s	44.00um			6.7Msz
	N	20s	44.50um			
	E	23s	44.50um			
				iPcP	03 02.80	
				ipP	03 05.30	88kmX
				iPP	05 15.30	
				iPPP	07 09.30	
				iS	11 45.30	
				iScS	12 31.30	
ISR		70.62	316	iP	02 44.50	1.0
VRI		70.65	317	iPc	02 43.00	-0.6
BAC		70.68	317	eP	02 42.00	-1.7
DIM		70.73	312	eP	02 43.00	-1.1
CGN		70.81	315	ePd	02 44.50	-0.1
BUC1		70.83	315	eP	02 43.50	-1.1
KDZ		70.83	312	iPc	02 44.00	-0.8
CVO		71.02	316	iPc	02 45.00	-0.8
MLR		71.11	316	iPc	02 46.00	-0.5
EVA		71.13	240	iPc	02 47.50	0.4
				i	14 49.70	
PVL		71.22	314	iPd	02 47.00	-0.1
ATH		71.54	308	iPc	02 48.00	-1.1
				iPP	05 40.00	
				iPPP	07 20.00	
				iS	11 58 00	
SLR		71.60	241	iPc+	02 50.00	0.1
		0.9s	975.00nm			6.7mb
	Z	18s	330.00um			7.6Msz
				i	03 12.50	
PRE		71.69	241	iPc	02 50.40	0.0
		0.8s	615.00nm			6.6mb
CMP		71.69	316	iPc	02 48.00	-1.9
MIR		72.12	181	iP	02 52.00	0.2
		3.0s	260.00nm			5.6mb X
				iPcP	03 12.00	
				ipP	03 21.00	115kmX
				ePPP	07 18.00	
				iS	12 10.00	
				eSS	16 42.00	
DRA		72.14	315	eP	02 52.00	-0.5
COZ		72.19	316	iPc	02 51.00	-2.0
PUL		72.36	331	P	02 52.00	-1.4
THE		72.47	311	Pc	02 53.50	-1.0
				S	11 28.00	
VTS		72.56	313	iP	02 54.00	-1.0
KSR		72.84	241	iPc	02 57.20	0.0
				i	03 11.00	
VAY		72.85	311	iPc	02 55.20	-1.6
				i	03 15.00	
SRE		72.87	315	eP	02 57.00	0.2
SEK		72.89	238	iPc	02 57.60	0.2
KOU		73.07	113	iPc	02 59.10	0.8
				iS	12 22.50	
				ScP	15 00.30	
CLO		73.22	315	iPc	02 57.50	-1.3
LVV		73.22	320	iPc	02 58.00	-0.7
		9.0s	*******nm			7.0mb X
	Z	20s	37.70um			6.7Msz
	N	18s	15.00um			
	E	21s	21.40um			
				iPcP	03 16.00	
				iS	12 15.00	
				eSS	17 03.00	
DEV		73.28	316	iPc	02 59.50	0.4
VIR		73.46	239	iPc	03 01.00	0.3
SKO		73.78	312	iPc	03 00.10	-2.0
				i	03 01.80	
				iPP	05 54.00	
				iPPP	07 44.00	
				iS	12 20.50	
				iPS	13 24.00	
				iSS	17 42.00	
				iSSS	21 06.00	
APA		74.06	339	iPc	03 02.50	-0.8
		1.5s	3700.00nm			7.1mb
	Z	22s	135.00um			7.2Msz
	N	20s	11.00um			
	E	22s	50.00um			
				iPcP	03 20.50	
				ipP	03 24.90	85kmX
				iS	12 24.50	
				iSP	12 58.50	
UZH		74.13	319	iPc	03 05.00	1.0
		1.6s	4500.00nm			7.1mb
	Z	18s	21.00um			6.5Msz
	N	18s	12.00um			
	E	18s	15.00um			
				ePcP	03 25.00	
				iPPP	07 45.00	
				iS	12 25.00	
				iSKS	12 55.00	
OHR		74.15	311	iPc	03 02.20	-2.2
				i	03 05.10	
				iS	12 23.40	
BLF		74.32	238	iPc	03 22.00	16.3X
SWZ		74.54	240	iPc	03 06.60	-0.4
KJF		74.97	335	iPc+	03 08.00	-0.6
		0.7s	130.00nm			6.0mb
				i	03 10.80	
				i	03 28.50	
				ePP	06 20.00	
				ePPP	07 48.00	
				iS	12 37.00	
				eSS	18 12.00	
GRM		75.19	234	iPc	03 11.60	1.1
		1.9s	720.00nm			6.3mb
	Z	20s	53.30um			6.8Msz
				i	03 31.60	
SUF		75.19	334	iP	03 08.90	-1.0
		0.6s	182.00nm			6.2mb
JOS		75.26	319	iPc	03 10.70	0.1
		0.9s	270.00nm			6.2mb
NUR		75.29	331	iPc+	03 09.30	-1.1
		1.5s	1540.00nm			6.7mb
				i	03 31.80	
				ePP	06 22.00	
				ePPP	07 52.00	
				iS	12 39.10	
				eScS	13 14.00	
				eP'P'	30 29.00	
HVD		75.30	236	iPc	03 12.50	1.2
		0.9s	287.00nm			6.2mb
				i	03 17.40	
NOU		75.42	115	iPc	03 13.00	1.1
				iS	12 47.00	
				ScP	15 13.40	
SPC		75.55	319	iP	03 12.10	-0.3
				i	03 33.30	
				i	04 21.60	
				i(PP)	06 20.40	
				eS	12 43.20	
PSZ		75.61	318	iPc	03 11.90	-0.8
BNG		75.85	273	iPc	03 15.00	0.4
		1.0s	295.00nm			6.2mb
BCAO		75.87	273	iPc	03 14.90	0.2
KRA		75.87	320	iPc	03 13.60	-0.4
		1.6s	3480.00nm			7.0mb
	Z	24s	43.50um			6.7MszX
	N	20s	31.90um			
	E	20s	46.40um			
				i	03 31.10	
				i	03 38.60	
				e	06 20.00	
				e	07 52.00	
				iS	12 42.00	
BUD		76.14	317	iPKPc	03 14.40	-1.1
		1.1s	110.00nm			5.7mb
PVC		76.22	110	iPc	03 17.80	1.3
				iS	13 00.00	
				ScP	15 19.30	
SOD		76.40	338	iP	03 16.30	-0.3
				iS	12 53.50	
MAW		76.58	192	iPd	03 18.90	1.4
		1.8s	500.00nm			6.1mb
SRO		76.66	318	iPc	03 19.80	1.4
	N	20s	20.60um			
	E	24s	28.10um			
				i	03 37.00	
				i	06 28.00	
				iS	12 50.00	
KHE		76.77	354	iPc	03 18.00	-0.5
		2.0s	3780.00nm			7.0mb
				iPcP	03 30.00	
				iPP	06 15.00	
				iS	12 54.00	
				eSSS	21 14.00	
KEV		77.03	341	iPc+	03 19.20	-0.9
		0.8s	286.00nm			6.2mb
				i	03 22.00	
				ePP	06 36.00	
				ePPP	08 36.00	
				eS	12 56.00	
				eSS	18 00.00	
ZST		77.50	318	iPd	03 22.20	-0.9
		1.6s	774.00nm			6.4mb
				i	06 26.40	
				i	06 43.20	
				eS	13 04.00	
VKA		78.03	318	iPc	03 26.50	0.5
		2.0s	7910.00nm			7.3mb
				i	03 30.40	
				ipP	03 56.70	119kmX
				pPP	06 51.60	
				e	09 32.00	
				iS	13 10.80	
KSP		78.28	321	iPc	03 27.50	0.2
		1.7s	3460.00nm			7.0mb
				i	03 30.60	
				i	03 52.80	
				iS	13 11.00	
				e	30 25.00	
				e	33 52.00	
UPP		78.59	330	iPc	03 27.90	-0.9
		1.5s	3600.00nm			7.1mb
				ipP	03 50.70	86kmX
				iS	13 14.40	
				i	13 34.50	
KIR		78.82	338	iP	03 29.60	-0.4
SMY		79.01	38	eP	03 31.50	0.3
	Z	20s	15.00um			6.3Msz
LJU		79.10	316	iPc	03 32.10	0.2
				eS	13 19.00	
CEY		79.15	315	iPc	03 32.00	-0.2
DRV		79.17	163	iP	03 31.40	-0.4
				e	30 25.00	
PRU		79.33	320	iPc	03 33.00	0.0
		1.8s	1750.00nm			6.7mb
	Z	22s	19.80um			6.4Msz
	N	25s	37.10um			
	E	21s	16.80um			
				e	03 55.50	
				PP	06 52.00	
				iS	13 24.00	
				PS	14 20.00	
KMR		79.48	318	iP+	03 34.20	0.3
				i	03 38.30	
TRI		79.62	315	iPd	03 32.40	-2.2
				iPP	06 37.40	
				iPPP	08 23.10	
				iS	13 24.00	
				e	13 26.40	
				eScS	13 43.90	
				iSP	14 14.00	
				iSS	18 38.00	
				iSSS	22 00.00	
BRG		79.76	321	iPc	03 35.30	0.0
		1.8s	540.00nm			6.2mb
				ipP	03 58.90	89kmX
				iS	13 28.80	
				eP'P'	30 22.00	
KHC		79.90	319	iPc	03 36.00	-0.2
		1.1s	519.00nm			6.4mb
	Z	20s	13.10um			6.3Msz
	N	20s	10.90um			
	E	20s	18.00um			
				e	03 55.90	
				PP	05 14.20	
				S	13 28.00	
KBA		79.96	317	iPc	03 35.80	-1.0
		1.3s	625.00nm			6.4mb
				i	03 38.80	

				ePP	06	43.20					1.4s	1190.00nm		6	7mb	CAF	87.88	315	iPc	04	17.30	0.7
				eS	13	28.00						e	04	21.00			1.3s	475.00nm			6.4mb	
MCQ	80.11	148	eP	03	37.00	0.0						e	13	14.00		LSF	88.12	316	iPc	04	17.70	0.0
BRL	80.27	322	iPc	03	38.50	0.6						e	14	15.00			1.3s	528.00nm			6.5mb	
BHG	80.31	317	iPc	03	37.80	-0.5						e	30	14.00		RJF	88.23	315	iPc	04	19.00	0.7
BRN	80.32	322	iPc	03	38.30	0.1						e	30	19.00			1.4s	858.00nm			6.7mb	
WET	80.36	319	eP	03	38.70	0.1						eSKKKS	33	32.00		GNZ	88.32	129	P	04	18.00	-0.7
	Z 18s		19.50um			6.5Msz		BAF	84.27	317	iPc	03	58.20	-0.7					PP	07	47.00	
			eS	13	35.50			WIT	84.30	322	ePc	04	00.00	1.2					S	14	55.00	
CLL	80.38	321	iPc	03	38.20	-0.4			1.2s	2560.00nm			7.1mb			LPO	88.53	315	iPc	04	20.40	0.7
	1.6s	1200.00nm				6.6mb		BSF	84.41	317	iPc	03	59.00	-0.6			1.5s	1150.00nm			6.8mb	
			ipP	04	02.00	90kmX			1.6s	720.00nm			6.4mb			LFF	88.82	315	iPc	04	21.70	0.6
			iS	13	34.00			ADK	84.65	38	ePc	03	58.10	-2.4			1.5s	914.00nm			6.8mb	
			P'P'	30	24.00			HAU	84.70	318	iPc	04	00.80	-0.2		LDF	88.95	319	iPc	04	21.60	0.0
COP	80.95	325	iPd	03	42.00	0.5		FRF	84.71	313	iPc	04	01.30	0.3			1.6s	1520.00nm			7.0mb	
	1.2s	594.00nm				6.4mb			1.4s	1980.00nm			6.9mb			ANM	89.09	25	eP	04	22.00	0.0
			iS	13	25.00			WLF	84.75	319	P+	04	02.00	0.9		FLN	89.17	319	eP	04	22.60	0.0
TBY	81.02	330	iP	03	25.70	-16.0X						e	04	25.00			1.4s	1040.00nm			6.9mb	
HOF	81.05	320	iPc	03	42.30	0.1						e	07	47.00		MFF	89.23	317	iPc	04	23.20	0.3
	2.0s	2720.00nm				6.8mb						PPP	09	38.00			1.7s	1750.00nm			7.0mb	
	Z 21s		25.00um			6.5Msz						e	10	56.00		NKI	89.32	37	iPc	04	22.10	-1.1
			eS	13	43.00							SKS	14	15.00		EPF	89.34	313	iPc	04	23.30	-0.3
CER	81.09	235	iPc	03	43.80	1.1						SS	20	00.00			1.5s	436.00nm			6.4mb	
	1.0s	800.00nm				6.6mb		LMR	84.82	313	iPc	04	01.80	0.2		GRR	89.46	318	iPc	04	24.20	0.2
			i	15	44.00				1.4s	1190.00nm			6.7mb				1.5s	1080.00nm			6.8mb	
TUH	81.19	235	iPc	03	43.40	0.2		NDF	84.82	108	iP	04	05.00	3.0X		LPF	89.64	318	iPc	04	25.20	0.4
			i	15	45.00			ENN	84.85	320	ePc	04	01.50	-0.1			1.7s	1990.00nm			7.1mb	
MOX	81.23	320	iPc+	03	43.00	-0.1			1.6s	613.00nm			6.4mb			DAG	89.70	348	iPc	04	23.60	-1.0
	2.0s	2940.00nm				6.9mb						e	14	19.00			0.9s	44.50nm			5.7mb	
	Z 20s		22.30um			6.5Msz						e	30	18.00					iS	14	44.00	
	N 20s		20.00um					LRG	84.92	313	iPc	04	02.60	0.5		EKA	89.81	326	Pc	04	25.70	0.2
	E 20s		17.20um					DBN	85.25	322	iP+	04	04.00	0.5			1.6s	1050.00nm			6.8mb	
			ipP	04	06.00	86kmX						e	05	12.00		ESK	89.83	326	iPd	04	26.50	0.9
			ePP	06	50.00							e	07	49.00			1.0s	640.00nm			6.8mb	
			isPP	07	20.00							e	09	40.00		ALI	90.57	308	iP-	04	31.00	1.7
			iPPP	08	35.00							iS	14	20.00					iS	14	51.00	
			iS	13	45.00							ePS	15	18.00		ALE	91.28	357	iPc	04	31.70	-0.1
			esS	14	30.00							eSS	19	52.00			0.7s	488.00nm			7.0mb	
			eP'P'	30	20.00			DOU	85.74	320	Pc+	04	06.20	0.2		LGR	91.49	313	iPc	04	34.80	1.3
			e	33	46.00				0.8s	277.00nm			6.3mb				1.7s	6.40nm			4.7mb X	
FIR	81.36	313	iPc	03	44.00	0.1						pP	04	30.00	89kmX				iPP	07	35.00	
			iS	13	44.00							PP	07	44.00					iS	14	59.80	
FUR	81.39	318	iPc	03	43.80	-0.2						PPP	09	44.00		SBA	91.83	168	P	04	36.00	1.6
	1.5s	2060.00nm				6.8mb						SKS	14	23.00					S	15	00.00	
	Z 21s		31.00um			6.6Msz		VUN	85.81	108	ePc	04	07.50	0.5		ETA	92.08	323	iPc	04	34.80	-1.1
			eS	13	45.00				1.7s	611.00nm			6.4mb				1.3s	1800.00nm			7.3mb	
GRF	81.46	319	ePc	03	45.00	0.7		SVA	85.82	109	eP	04	08.00	1.0		ECP	92.28	323	iPc	04	36.70	-0.2
	1.2s	271.00nm				6.0mb		UCC	85.84	320	Pd+	04	06.70	0.2			1.2s	860.00nm			7.0mb	
	Z 22s		26.00um			6.5Msz						PP	07	40.00		ALM	92.33	307	iPc	04	38.00	0.5
			i	03	49.20							PPP	09	40.00			1.9s	29.00nm			5.4mb X	
			iS	13	48.40							SKS	14	22.00					iPP	08	24.30	
GRFO	81.46	319	iPc	03	45.00	0.6		TCW	85.92	132	P	04	06.50	-0.6					iS	15	02.30	
GAP	81.53	317	eP	03	44.60	-0.2						PP	07	32.00		ECB	92.49	323	iPc	04	36.00	-1.8
	1.5s	2930.00nm				7.0mb						eS	14	25.00		ALR	92.93	306	iP	04	42.00	1.8
OGA	81.55	316	iPc	03	44.80	-0.3						eScP	16	10.00					i	04	44.00	
NB2	81.87	331	P	03	45.00	-1.3						ScS	21	13.00		NVL	93.04	199	iPc	04	42.00	2.0
	1.2s	486.00nm				6.3mb		SSB	86.11	315	iPc	04	08.20	0.2			1.1s	150.00nm			6.3mb	
MSZ	82.19	136	P	03	48.10	0.0		KRP	86.27	129	P	04	09.60	0.7			Z 17s	27.00um			6.8MszX	
			PP	06	59.00							PP	07	31.00			N 17s	9.50um				
			e	07	29.00							S	14	29.00			E 17s	16.00um				
			S	14	05.00			WEL	86.30	132	P	04	08.00	-0.9					ipP	05	13.00	118kmX
HAM	82.33	323	iPc	03	49.90	1.2			Z 22s	101.00um			7.2Msz						ePP	08	22.00	
			i	03	52.00							PP	07	34.00					ePPP	10	30.00	
STU	82.78	318	iPc+	03	50.30	-0.9						e	08	03.00					iSKS	15	04.00	
	1.0s	700.00nm				6.5mb						S	14	24.00					iSS	22	00.00	
	Z 20s		28.40um			6.6Msz						SS	20	10.00		TOL	93.07	310	iPc	04	41.00	0.1
LLS	82.94	316	eP+	03	52.30	0.0		LBF	86.37	317	iPc	04	09.20	-0.1					i(pP)	05	05.00	88kmX
TMA	83.04	316	iP+	03	52.30	-0.5			1.5s	1290.00nm			6.8mb						iPP	08	48.00	
CVF	83.11	312	iPc	03	53.10	0.0		LOR	86.43	317	iPc	04	09.50	0.0					iPPP	10	52.00	
	1.5s	1790.00nm				6.8mb			1.4s	1190.00nm			6.8mb						iSKS	15	00.00	
TNS	83.25	320	iPc	03	53.40	-0.3		SMF	86.49	316	iPc	04	09.80	0.0					iS	15	41.00	
			eS	14	05.00				1.4s	962.00nm			6.7mb						e(sS)	16	30.00	
SLE	83.27	317	eP+	03	53.30	-0.5		SSF	86.68	317	iPc	04	10.80	0.0					i	16	55.00	
ZUL	83.34	317	eP+	03	54.00	-0.2			1.4s	760.00nm			6.6mb						iPS	17	30.00	
ILT	83.42	22	P	03	53.00	-1.1		MNG	86.71	131	Pc	04	10.40	-0.6					iSS	22	50.00	
BUH	83.42	318	iPc	03	54.10	-0.5						pP	04	24.40	48kmX	CRT	93.18	308	iP	04	42.60	1.1
MMK	83.67	316	eP+	03	55.80	-0.3						i	04	42.00					eSKS	15	06.00	
GWF	83.82	319	iPc	03	56.50	0.0						PP	07	33.00					iS	15	15.20	
BNS	84.05	321	iPc	03	57.70	0.1						e	08	48.00		IMA	93.36	22	iPc	04	42.30	0.4
	1.8s	1.86nm				3.8mb X						S	14	23.00		TTA	93.54	26	iPc	04	43.20	0.6
			i	03	58.00							(SKS)	14	40.00		MAL	93.90	307	iPc	04	44.00	-0.7
			ePP	07	42.50			AVF	86.81	317	iPc	04	11.10	-0.3					i	04	49.50	
			iS	14	13.50				1.5s	788.00nm			6.6mb						i	05	09.00	
DIX	84.05	316	iP+	03	58.70	0.6		MZF	87.39	316	iPc	04	14.30	0.1					iPP	07	22.00	
CDF	84 06	318	iPc	03	57.70	-0.2			1.3s	475.00nm			6.4mb						iS	15	05.00	
ECH	84.15	318	iPc	03	57.70	-0.5		TCF	87.64	316	iPc	04	15.60	0.2					iPS	15	48.00	
WTS	84.24	322	iPc	03	58.70	0.2			1.5s	682.00nm			6.5mb						iSS	21	50.00	

04d 03h

AKU	93.99	338	iP	04	46.30	1.8	MIN	123.27	33	ePKP	10	23.40	-0.9				e	14	15.70										
	1.3s	592.00nm			6.9mb		NWRM	123.86	35	ePKP	10	25.90	0.6	OCO	137.38	15	ePKP	10	39.80	-11.4X								
			e	08	15.70		BKS	124.63	35	ePKP	10	27.50	0.7				e	10	53.70										
			i	17	04.60			1.3s	990.00nm								e	14	16.50										
VAL	94.66	323	iP	04	49.00	1.2				epPKP	10	51.40		TUL	137.41	13	ePKPc+	10	38.70	-12.5X								
			S	15	55.00					ePP	12	17.20			1.3s	985.00nm												
IFR	95.04	304	iP	04	51.50	1.2				e	23	48.00			Z 22s	63.50um				7.3Msz								
SFS	95.37	307	iPc	04	50.00	-1.4	WCN	125.00	32	iPKP	10	28.90	1.2				e	10	54.50										
			iPP	08	12.00		MHC	125.34	35	ePKP	10	28.30	-0.1				e	13	33.70										
			ePPP	09	51.00		CBM	125.40	346	ePKP	10	28.00	0.0				e	14	13.40										
			iS	15	20.00		IMW	125.43	23	ePKP	10	24.30	-4.3X	SIO	137.45	13	ePKP	10	39.70	-11.6X								
			iPS	16	34.00					i	10	29.00					e	14	16.30										
			eSS	20	00.00		BMN	125.47	30	ePKP	10	30.00	1.4	LUB	137.84	21	ePKP	10	46.00	-6.3X								
SPA	95.70	180	ePc	04	52.40	-0.1	TMI	125.54	24	ePKP	10	28.90	0.1	GRT	138.04	5	ePKP	10	41.80	-10.6X								
	1.1s	101.00nm			6.2mb		JAS	125.60	34	ePKPc	10	28.50	-0.2				i	10	56.70										
	Z 22s	48.00um			6.9Msz					epPKP	10	52.00					eSKP	14	19.40										
			e	08	50.00					epPP	12	23.00		VAO	139.31	241	ePKP	10	46.30	-8.9X								
MBC	95.78	8	iPc	04	52.30	-0.3				epPPP	15	10.00					e	10	50.60										
COL	96.08	22	iP	04	53.50	-0.7				ePKKP	20	10.00					e	10	55.90										
	Z 20s	31.90um			6.8Msz					e	23	50.00					e	10	59.70										
			e	08	47.00					eSS	27	55.00		PRM	140.30	356	ePKP	10	47.40	-9.1X								
			eS	15	53.00		SAO	125.85	36	ePKP	10	28.50	-0.8	LPA	141.55	217	ePKP+	10	52.00	-6.7X								
FBA	96.08	22	iPc	04	53.00	-1.2	LHC	125.96	3	ePKP	10	17.00	-12.1X		Z 20s	14.90um				6.7Msz								
	1.5s	148.00nm			6.3mb			0.8s	397.00nm					BAO	142.14	252	PKP	11	05.00	4.5X								
REY	96.11	337	iP	04	56.50	2.2	BEI	126.59	24	ePKP	10	31.60	0.8	MZX	144.57	35	ePKPc	11	03.40	-0.8								
			i	08	55.20		FRI	126.69	34	ePKP	10	30.70	-0.1	ITB	144.71	234	iPKP	11	03.70	-0.8								
AVE	96.96	304	iP	05	01.50	2.8	PRI	126.74	36	ePKP	10	31.70	0.6	RFA	147.21	206	ePKPc	11	08.60	0.2								
PMR	97.03	26	iPc	04	57.90	-0.6				epPKP	10	55.00		BPA	147.63	315	ePKP	11	09.00	-0.5								
KDC	97.05	30	eP	04	59.00	0.4	BDW	126.90	22	ePKP	10	22.20	-9.2X	SEG	147.81	313	ePKP	11	10.50	0.8								
PME	97.05	26	eP	04	59.60	1.0	MIM	127.21	346	ePKP	10	31.70	0.2	TCA	148.00	215	ePKPc	11	10.50	0.7								
	1.2s	326.00nm			6.7mb		EMM	127.28	344	ePKP	10	31.10	-0.5	PAG	148.18	313	ePKP	11	11.50	1.1								
	Z 20s	47.50um			7.0Msz		MOUT	127.32	25	ePKP	10	31.80	-0.5	CRM	148.42	310	ePKP	11	10.90	0.2								
LIS	97.18	310	iPd	05	04.50	4.9X	RSSD	127.56	17	(PKP)	10	21.50	-11.1X	MVM	148.53	310	ePKP	11	11.66	0.7								
KIC	98.74	277	iP	05	08.30	1.2	MNT	127.94	350	iPKPc	10	32.40	-0.5	FDF	148.61	311	ePKP	11	10.65	-0.4								
			eS	15	39.40			1.5s	560.00nm					BIM	148.69	310	ePKP	11	11.60	0.4								
INK	98.88	16	ePc	05	11.10	4.4X	WKTM	128.26	35	ePKP	10	31.00	-3.0X	LQT	148.77	205	ePKPc	11	12.00	1.0								
	1.0s	562.00nm			7.1mb		BNH	128.34	347	ePKP	10	33.60	-0.2	CHCH	148.84	204	iPKPc	11	11.00	0.0								
PCA	101.54	25	ePdiff	05	20.00	1.1	OTT	128.39	351	ePKP	10	33.00	-0.7	MNZ	149.02	37	iPKP	11	18.00	6.4X								
HON	103.84	67	Pdiff	05	36.00	6.1X		1.3s	480.00nm					LNV	149.12	203	iPKPc	11	13.90	2.6X								
YKA	108.35	14	ePdiff	05	49.90	0.9				pP	10	56.50		TACH	149.20	204	iPKPd	11	11.50	0.0								
YKC	108.39	14	ePdiff	05	49.00	-0.2	PTN	129.07	351	iPKP	10	35.30	0.2	FCH	149.22	205	iPKPc	11	12.50	0.5								
	1.1s	84.00nm			6.8mb		RKT	129.13	115	iPKP	10	40.40	4.6X	BACH	149.28	205	ePKP	11	15.50	3.8X								
MBO	109.38	287	ePdiff	05	54.30	-0.3	PAS	129.59	36	iPKP	10	29.00	-7.4X	PEL	149.54	205	iPKPc	11	11.50	-0.6								
			e	06	02.80					ipP	10	39.00			2.0s	735.00nm												
			e	06	20.70					iPP	12	48.00		SJG	149.71	322	iPKP	11	12.00	-0.7								
			e	09	58.10					iSKP	13	50.00			Z 20s	22.70um				7.0Msz								
			e	10	02.80					iPKS	14	04.00		CFA	149.73	210	ePKPd	11	13.50	1.1								
			e	10	32.10					eSKS	17	05.00		ROCH	149.83	204	iPKPc	11	13.00	0.2								
FRB	109.57	352	ePdiff	05	54.00	-0.3				iPS	22	56.00		JACH	149.91	205	iPKPd	11	13.40	0.7								
FCC	115.32	5	ePKPd	10	07.90	-0.4				ePPS	24	48.00		CEN	150.00	209	ePKP	11	14.00	1.1								
	0.8s	86.00nm								iSS	30	08.00		CYA	150.84	217	ePKPc	11	14.70	0.5								
PGC	116.38	27	ePKP	10	10.80	0.2				eSSS	35	27.00		IIC	151.15	28	ePKPd	11	16.00	0.8								
MCW	116.64	27	PKP	10	11.90	0.7	APH	129.70	350	ePKP	10	35.20	-1.2	TRN	151.20	304	iPKPc	11	16.80	1.8								
EDM	116.65	18	ePdiff	06	27.90	1.7				eSKP	13	50.00			1.6s	1690.00nm												
EDM	116.65	18	iPKPd	10	11.20	0.1	SDW	129.89	35	ePKP	10	26.30	-10.9X	CRX	151.26	29	ePKPd	11	16.10	0.7								
	1.2s	516.00nm					WES	130.45	346	ePKP	10	38.10	0.3	TAC	151.50	28	iPKP	11	21.00	5.3X								
GMW	117.49	28	PKP	10	13.10	0.3	GOL	131.12	21	ePKP	10	22.00	-17.5X	SOR	151.57	356	iPKPc	11	15.00	-0.3								
PNT	117.55	25	ePKP	10	13.00	0.1	ELF	131.17	356	PKP	10	39.30	0.2		1.0s	570.00nm												
	0.8s	122.00nm					INY	131.39	351	ePKP	10	39.00	-0.6				ipPKP	11	41.00										
			pP	10	36.00		DLA	131.52	356	PKP	10	39.70	-0.1	IIM	151.57	29	iPKP	11	17.50	1.7								
SCH	117.73	348	ePdiff	06	33.50	2.5X	GLA	132.30	34	ePKP	10	29.80	-11.9X	IIP	151.68	28	ePKP	11	17.20	1.2								
	1.1s	183.00nm					GPD	132.43	349	iPKP	10	42.20	0.6	TLL	152.14	208	iPKPd	11	16.10	-0.2								
TPT	118.14	104	ePKP	10	16.00	1.1	UTO	132.80	358	ePKPc	10	42.00	-0.3	IIT	152.24	27	iPKPc	11	17.70	0.9								
	1.1s	2.50nm					CLE	132.88	356	iPKP	10	42.80	0.3	III	152.24	30	ePKPc	11	17.40	0.7								
FFC	118.16	11	ePKP	10	13.00	-0.9	ITR	133.46	263	e(PKP)	10	28.00	-16.4X	SLA	153.24	223	iPKPd	11	19.00	1.1								
	0.5s	114.00nm					ALQ	134.87	25	ePKP	10	32.00	-14.7X				e	15	10.00										
			pP	11	26.00			Z 22s	31.50um			7.0Msz		ACX	153.30	32	ePKPd	11	19.00	1.1								
LON	118.53	28	(PKP)	10	14.00	-0.9				e	10	46.00		GUV	154.12	301	iPKPc	11	20.00	0.8								
COR	119.37	30	iPKPc	10	14.00	-2.5	ACO	135.83	16	ePKP	10	34.60	-13.7X	YJA	154.87	228	ePKPc	11	22.00	1.5								
NEW	119.39	24	iPKP	10	15.20	-1.3		1.1s	530.00nm					CAR	155.63	311	ePKP	11	22.80	1.5								
STJ	119.67	335	ePKP	10	17.00	0.1				e	10	40.60			1.3s	146.00nm												
RXF	119.69	22	iPKP-	10	17.70	0.6				e	10	42.00					i	11	23.20									
SES	119.81	19	iPKPd	10	17.00	-0.2				e	12	11.70		COM	157.12	17	iPKP	11	24.00	0.7								
			pP	11	39.00					e	14	12.40		ANT	157.12	217	iPKP	11	24.20	1.3								
LDM	119.95	23	iPKP-	10	18.00	0.5	NA12	135.96	352	ePKP	10	34.60	-13.8X	TPL	158.18	220	ePKP	11	25.40	1.2								
LHD	120.02	23	iPKP-	10	18.00	0.3				e	10	47.30		TOV	158.20	315	iPKPd	11	26.50	2.0								
CLX	120.22	23	iPKP-	10	18.50	0.2	CVL	136.05	352	ePKP	10	37.40	-11.2X	LGN	158.95	319	ePKP	11	31.50	6.3X								
PNO	120.77	27	PKP	10	18.40	-0.7	RDJ	136.05	243	ePKP	10	46.40	-2.6X	SDV	159.42	315	ePKP	11	26.60	0.6								
FHC	121.65	34	ePKPc	10	21.40	0.4	FVM	136.24	6	ePKP	10	34.00	-15.0X		1.0s	241.00nm												
LGBM	122.24	32	ePKP	10	21.90	-0.5				eSKP	14	13.30		LPS	159.73	11	iPKPc	11	25.50	-0.7								
WDC	122.59	33	ePKPc	10	22.00	-0.7	SOB3	136.25	262	ePKP	10	43.20	-6.5X		1.5s	408.00nm												
			epPKP	10	47.00					e	10	53.20		UAV	159.97	315	ePKP	11	27.50	0.9								
			ePP	12	02.00					e	10	55.20		LPB	160.06	236	PKPc+	11	29.00	2.1								
			ePKKP	20	19.00		BLA	137.04	354	ePKP	10	39.60	-10.9X		1.2s	1310.00nm												
			e	24	05.00		ELC	137.04	5	ePKP	10	37 20	-13.3X		Z 22s	51.80um												
RMT	122.98	34	iPKP	10	24.50	1.1				iSKP	14	14.70					(SKS)	22	26.00										
RSON	123.16	6	PKP	10	23.20	-0.3	RLO	137.32	12	ePKP	10	37.70	-13.4X	ZOBO	160.21	237	iPKPc	11	28.10	0.8								

GAL 160.80 329 iPKP 11 32.50 5.4X
ARE 162.81 231 iPKPc 11 30.50 1.0
FUQ 163.99 314 iPKP 11 32.00 1.2
BOG 164.80 312 iPKP 11 32.00 0.4
CHN 165.65 318 iPKP 11 32.00 0.0
PT06 168.09 227 iPKPd 11 34.80 1.2
PT02 168.73 230 iPKPd 11 34.20 0.2
PSO 169.50 311 iPKP 11 35.00 0.0
S.D. = 1.1 on 494 of 543 obs.

APR 11, 1983 08h 18m 10.18± 0.28s
10.426 N ± 1.4km 62.775 W ± 1.3km
DEPTH = 40.1 ± 2.4 km
6.1mb (102 obs.) 5.9Msz (40 obs.)
NEAR COAST OF VENEZUELA (97)
Felt (V) on Trinidad. Felt in the northeastern Venezuelo states of Sucre, Monagos, Anzoategui and Bolivar. Also felt in the eastern suburbs of Carocos.

TCE 1.04 75 P 18 29 80 1.3
TPP 1.31 95 P 18 31.70 -0.6
TRN 1.37 81 P 18 30.90 -2.2
GRW 2.04 32 P 18 42.90 0.0
SLW 4.00 27 eP 19 10.15 -0.5
S 19 54.90
CAR 4.09 271 iPnc 19 14.00 2.1
BIM 4.39 22 iPd 19 15.50 -0.8
MVM 4.49 24 iPd 19 16.82 -0.9
FDF 4.57 20 iPd 19 17.90 -0.8
S 20 07.80
CRM 4.67 23 iPd 19 19.48 -0.6
SFG 5.99 15 ePd 19 38.30 -0.5
SEG 6.07 12 ePd 19 39.75 -0.1
MGH 6.28 5 P 19 43.00 0.2
BPA 6.64 8 ePd 19 47.10 -0.8
NEV 6.67 2 P 19 47.90 -0.4
TOV 6.94 265 iPc 19 53.80 1.7
0.6s 70.60nm 5.7mb
CPB 7.23 7 P 19 55.00 -1.1
SDV 7.90 260 iPc 20 05.70 0.0
0.8s 320.00nm 6.3mb
SJG 8.31 337 eP 20 09.00 -2.2
e(S) 22 04.00
LGN 8.37 269 e(P) 20 15.70 3.8X
UAV 8.45 258 iPnd 20 13.70 0.4
0.5s 133.00nm 6.2mb
GAL 12.28 273 iP 21 10.50 5.1X
BOG 12.59 244 iP 21 08.50 -1.3
iS 22 18.00
CHN 13.83 248 iP 21 24.00 -2.1
PSO 17.12 239 iP 22 11.00 2.3
SOR 22.92 305 iPd 23 14.00 2.2
Z 18s 32.60um 5.8Msz
HUA 25.56 210 iPd 23 39.30 1.5
iS 28 06.00
LPS 26.05 281 iPd 23 44.00 2.0
1.0s 105.00nm 5.4mb
eS 28 47.00
NNA 26.29 212 iPd 23 45.70 1.6
0.6s 240.00nm 6.0mb
eS 28 18.00
PT02 26.89 211 iPd 23 50.10 0.6
ZOBO 27.05 191 iPd 23 52.50 0.9
LPB 27.30 191 Pd- 23 56.00 2.3
1.0s 940.00nm 6.4mb
S 28 35.00
ZIN 27.67 327 eP 23 57.70 1.3
e 30 49.50
ARE 28.07 198 eP 23 58.00 -2.6
COM 29.12 285 iP 24 11.00 1.1
SOB3 29.33 132 eP 24 11.80 0.1
PRM 29.60 326 ePd 24 14.80 0.9
NA12 30.61 336 eP 24 23.20 0.5
ITR 30.83 127 e(P) 24 22.00 -3.0
CVL 30.84 335 eP 24 25.50 0.7
GFM 30.85 329 e(P) 24 24.40 -0.7
BLA 31.06 332 iP+ 24 28.10 1.4
1.9s 1090.00nm 6.3mb
iS 31 29.60
NAV 31.31 332 ePd 24 30.30 1.3
TKL 31.54 326 eP 24 31.90 0.9
MD3 32.11 346 eP 24 39.50 3.6X
GPD 32.17 343 eP 24 36.50 0.1
i 24 52.80

WES 32.70 348 eP 24 42.80 1.8
PWLA 33.59 321 eP 24 50.00 1.1
EMM 34.43 354 eP 24 58.50 2.6
ANT 34.73 192 iP 24 57.50 -1.2
eS 30 22.00
APH 34.81 345 iPd 25 00.10 0.8
BNH 34.82 349 eP 25 02.20 2.9
i 25 14.50
DHN 34.97 340 eP 25 01.90 1.3
SLA 35.04 184 eP 25 00.00 -1.5
(S) 30 40.00
IN4 35.07 330 ePd 25 02.20 0.7
MIM 35.11 352 eP 25 03.70 2.0
GRT 35.27 321 ePc 25 04.00 0.8
IN3 35.29 328 ePd 25 04.50 1.2
IIT 35.35 288 eP 25 05.50 1.0
RSNY 35.48 345 eP 25 06.00 1.1
AN10 35.56 331 ePd 25 06.50 0.9
LST 35.62 321 ePc 25 07.00 0.8
AN11 35.73 331 ePd 25 08.20 1.1
AN12 35.77 332 ePd 25 08.40 1.0
ELC 35.82 323 iPd 25 08.40 0.6
IIP 35.97 289 ePc 25 11.50 1.7
ePP 25 26.10
UTO 36.09 333 iPd 25 12.00 1.9
IN1 36.30 330 ePd 25 12.70 0.8
POW 36.31 319 ePc 25 13.00 1.0
III 36.35 287 eP 25 14.50 1.7
IIC 36.36 289 ePc 25 14.20 1.2
ePP 25 29.50
HKT 36.40 307 iP 25 15.00 2.2
ELF 36.42 337 P 25 14.10 1.3
OTT 36.57 345 eP 25 15.00 0.9
0.9s 81.00nm 5.6mb
pP 25 29.00 53kmX
AAM 36.64 334 ePd 25 16.00 1.3
VAO 36.65 155 eP 25 15.60 0.5
i 25 19.60
e 26 05.40
CBM 36.66 354 eP 25 17.00 2.2
e 25 30.80
CRX 36.69 288 ePc 25 17.10 1.3
FVM 36.99 322 iPc 25 18.20 0.5
e 31 20.00
ACM 37.90 332 ePd 25 26.20 0.9
STJ 37.98 11 eP 25 25.50 -0.4
ATX 38.16 306 iP 25 28.00 0.4
RDJ 38.25 150 eP 25 28.80 0.4
GBO 38.78 316 iPd 25 32.90 0.1
RLO 38.85 316 iPd 25 33.20 -0.1
TUL 39.23 316 iPd- 25 36.90 0.4
1.7s 408.00nm 5.9mb
Z 18s 25.00um 6.1Msz
e 27 10.00
VCA 39.29 188 ePd 25 37.90 0.7
SIO 39.50 315 iPd 25 38.70 -0.1
JCT 39.76 306 iPd 25 41.70 0.6
0.6s 200.00nm 6.1mb
Z 22s 13.00um 5.7Msz
i 27 25.00
ATO 40.80 314 eP 25 48.30 -1.2
RRO 40.80 313 ePd 25 50.20 0.7
1.5s 691.00nm 6.2mb
TLL 41.09 191 iPc 25 51.00 -1.2
QZO 41.23 312 eP 25 52.70 -0.3
TCA 41.56 182 ePd 25 53.60 -2.2
ACO 41.96 315 iPd 25 59.20 0.2
1.7s 1770.00nm 6.5mb
e 26 40.30
e 31 39.20
CFA 42.12 187 ePd 25 59.80 -0.5
S 32 45.00
CEN 42.15 188 eP 26 01.00 0.4
LUB 42.58 309 eP 26 05.40 1.2
MDZ 43.45 187 i(P) 26 08.90 -2.3
JACH 43.51 190 iPd 26 11.90 0.2
ROCH 43.86 190 iPd 26 14.00 -0.7
LHC 43.89 335 iPd 26 15.10 0.6
1.0s 291.00nm 6.0mb
PEL 43.98 190 iPd 26 15.00 -0.4
FCH 44.09 189 iPd 26 17.00 0.3
BACH 44.15 189 ePc 26 17.50 0.6
SCH 44.39 357 eP 26 18.50 0.0
0.5s 147.00nm 6 0mb
PCH 44.42 189 iPc 26 18.90 -0.1
TACH 44.52 190 iPc 26 19.40 -0.4
CHCH 44.74 189 iPd 26 21.30 -0 3

MBO 44.87 80 iP 26 22.60 -0.2
i 26 29.00
i 27 06.70
i 32 01.30
LNV 44.89 190 iPc 26 21.90 -0.8
RFA 45.27 187 ePd 26 25.10 -0.7
LPA 45.32 174 iP- 26 25.20 -0.9
iS 33 02.00
ALQ 46.61 309 iPd- 26 37.40 0.7
0.8s 104.00nm 5.8mb
Z 18s 13.80um 6.0Msz
e 26 51.00
TEN 47.07 61 iPd 26 41.30 1.2
iPcP 28 13.80
iS 33 26.00
GLD 47.61 315 eP 26 44.70 0.2
Z 20s 17.70um 6.0Msz
RSON 47.63 334 iPd 26 43.60 -0.6
ePP 28 44.30
iScP 32 03.00
GOL 47.70 315 iP 26 45.30 0.0
0.7s 49.00nm 5.6mb
Z 19s 4.10um 5.4Msz
RSSD 48.91 321 ePd 26 53.30 -1.2
iScP 32 09.00
BDW 51.86 317 iPd 27 16.30 -0.8
0.8s 140.00nm 6.0mb
iScP 32 21.50
MSU 52.14 311 iP 27 19.50 0.2
iScP 32 23.80
GLA 52.72 304 iPd 27 24.00 0.5
ePP 29 24.00
MOUT 52.84 314 eP 27 23.00 -1.5
BKU 52.86 311 iPd 27 25.00 0.4
iScP 32 26.20
BEI 53.11 315 ePc 27 26.00 -0.4
DUG 53.16 313 iPd 27 26.60 -0.1
iScP 32 28.00
IMW 53.23 318 ePd 27 26.40 -1.0
FRB 53.39 357 ePd 27 25.00 -2.8
TMI 53.66 317 iPc 27 29.60 -0.8
FCC 53.74 340 iPd 27 28.80 -1.6
0.9s 149.00nm 6.0mb
FFC 53.94 333 iPd 27 30.30 -1.7
0.6s 105.00nm 6.0mb
LCCM 54.63 320 iPd 27 36.90 -0.6
SDW 54.89 305 iPd 27 39.60 0.1
LRM 54.99 319 eP 27 39.60 -0.6
BUT 55.14 320 iPd 27 41.00 -0.2
EUR 55.25 311 iP 27 42.00 -0.2
0.5s 37.20nm 5.7mb
LIS 55.36 50 iPd 27 43.00 0.4
AVE 55.49 57 iP 27 44.00 0.3
PAS 55.68 304 iPd 27 46.00 0.9
1.9s 800.00nm 6.4mb
Z 20s 5.60um 5.6Msz
N 20s 8.80um
E 20s 7.00um
epP 28 12.00 107kmX
iPP 30 01.00
iPPP 31 16.00
iS 35 32.00
iSS 39 29.00
iSSS 42 00.00
VPEM 55.78 306 iPd 27 46.00 0.1
SES 56.13 325 iPd 27 47.20 -0.9
WKTM 56.24 306 iPc 27 49.40 0.3
BMN 56.44 312 iPd 27 50.50 -0.1
eS 35 59.00
P'P' 57 55.00
PTO 56.44 47 iPd 27 49.00 -1.4
iS 35 16.00
MNA 56.62 309 iPd 27 51.90 0.0
STS 57.00 45 eP 27 53.00 -1.4
SFS 57.09 53 iPd 27 56.00 0.9
ePP 31 14.00
ePPP 33 33.00
iS 36 10.00
iSS 40 15.00
iSSS 42 20.00
IFR 57.41 57 iP 27 57.50 -0.1
KIC 57.49 89 iPd 27 57.80 -0.5
CLX 57.62 321 iP- 27 57.60 -1.3
PHAM 57.80 306 iPc 28 00.10 0.0
LDM 57.83 321 iP- 27 59.40 -0.7
RXF 57.87 322 iP- 27 59.80 -0.7
LHD 57.90 321 iP- 27 58.70 -2.0

11d 08h

WCN		58.04	310	ePd	28	02.70	0.8	MZF		65.53	44	iPd	28	51.20	-0.7		Z	20s		1.80um			5.3Msz
PRI		58.07	306	eP	28	01.30	-0.8	VDM		65.87	41	iP-	28	54.00	0.1					eS	39	01.00			
JAS		58.26	308	ePd	28	02.80	-0.5	PHC		66.01	321	ePd	28	54.20	-0.6	KBA		72.99	44	iPd	29	37.50	-0.4
MAL		58.56	53	iP-	28	06.00	0.7	AVF		66.16	43	iPd	28	55.50	-0.3			1.0s	263.00nm				6.2mb
				iS	36	10.00		SSF		66.31	43	iPd	28	56.40	-0.4					i	29	52.80	
SLD		58.69	307	ePc	28	06.20	-0.1	SMF		66.47	44	iPd	28	57.40	-0.4	CLL		73.04	40	iPd	29	37.90	0.0
EDM		58.71	327	iPd	28	04.90	-1.3	LOR		66.59	43	iPd	28	58.10	-0.5			2.6s	1200.00nm				6.4mb
		0.6s	479.00nm				6.8mb	LBF		66.62	43	iPd	28	58.40	-0.4					i	29	45.30	
NEW		58.87	321	iPd	28	06.10	-1.3	UCC		67.57	39	iPc-	29	05.30	0.6	COP		73.12	35	iPd	29	39.20	1.0
				e	28	26.00						S	38	01.00				0.9s	208.00nm				6.1mb
ARN		58.99	307	ePc	28	08.60	0.2	DOU		67.58	40	Pc-	29	04.00	-0.8		Z	21s		6.09um			5.9Msz
PNO		59.05	317	eP	28	07.00	-1.7			1.5s	1340.00nm				6.8mb					iS	39	06.00		
MHC		59.07	307	ePd	28	09.20	0.1					S	38	02.00		NB2		73.20	29	P	29	38.30	-0.4
CRT		59.29	53	iPd	28	12.50	2.0	LRG		67.77	47	eP	29	06.10	0.0			1.4s	551.00nm				6.3mb
ORV		59.41	310	P	28	10.90	-0.4			1.4s	81.50nm				5.6mb	TRI		73.22	45	iPd	29	38.60	-0.4
TOL		59.48	50	iPd	28	12.00	0.2	LMR		67.86	47	eP	29	06.20	-0.5					iPcP	29	57.50	
		1.6s	9.00nm				4.7mb X			1.4s	125.00nm				5.8mb					iS	33	06.00	
				i	28	19.00		FRF		67.99	47	eP	29	07.10	-0.4					iSP	40	00.00	
				ePcP	28	55.00				1.0s	49.60nm				5.5mb					iSPP	40	38.00	
				ePP	30	18.00		DBN		68.33	38	iP-	29	09.00	-0.4					eSS	44	24.00	
				iS	36	23.00			Z	20s		4.30um			5.7Msz					eSSS	47	28.00	
				i	36	42.00						eS	38	10.00		BRN		73.26	38	iPd	29	39.50	0.4
				iSS	39	10.00						eSS	42	40.00		KHC		73.26	42	iPd	29	38.90	-0.4
BKS		59.64	308	iPd	28	13.00	0.2	HAU		68.37	42	iPd	29	09.40	-0.4			1.6s	279.00nm				6.0mb
		1.1s	110.00nm				5.9mb			1.2s	77.50nm				5.6mb		Z	20s		2.10um			5.4Msz
	Z	20s	6.00um				5.7Msz	WLF		68.50	41	P-	29	11.00	0.5		N	18s		1.10um			
	N	20s	10.00um									S	38	13.00			E	20s		2.00um			
	E	20s	10.00um					ENN		68.54	39	iPc	29	10.20	-0.5					PP	32	17.00	
				e	28	37.00				1.0s	135.00nm				5.9mb					S	39	04.00	
				ePP	30	30.00		BSF		68.64	43	iPd	29	10.90	-0.7	INK		73.28	338	iPd	29	37.20	-1.8
				ePPP	32	00.00				0.8s	58.40nm				5.7mb			0.7s	102.00nm				5.9mb
				eS	36	15.00		DIX		68.83	45	iPd	29	12.80	-0.2	BRL		73.31	38	eP	29	40.00	0.6
				eSS	40	30.00		CDF		69.04	42	iPd	29	13.60	-0.4	KMR		73.57	43	iP-	29	40.50	-0.6
LGBM		60.32	312	iPd	28	16.00	-1.8			1.2s	138.00nm				5.8mb	BRG		73.60	40	iPd	29	41.10	-0.1
RMT		60.37	310	eP	28	15.70	-2.0	STB		69.09	40	iPd	29	13.90	-0.2			2.0s	500.00nm				6.1mb
WDC		60.41	311	ePd	28	15.30	-2.8	MMK		69.21	45	iPd	29	15.40	0.1					i	29	48.20	
PNT		60.79	321	eP	28	19.00	-1.5	WTS		69.30	38	iPc	29	15.30	-0.1	CEY		73.68	45	iPd	29	41.80	0.0
		1.1s	111.00nm				5.9mb			0.9s	188.00nm				6.1mb	LJU		73.77	45	iPd	29	42.50	0.3
REY		60.80	19	iP	28	14.50	-5.8X	GWF		69.35	42	iPd	29	15.50	-0.3					eS	39	07.20	
				i	28	21.00		BNS		69.36	39	iPd	29	15.60	-0.2	PRU		73.93	41	iPd	29	43.40	0.3
ECB		61.35	35	iPd	28	23.80	-0.4			2.0s	0.43nm				3.1mb X			2.0s	695.00nm				6.3mb
LON		61.41	318	ePc	28	23.50	-1.3					eS	38	43.00			Z	19s		2.80um			5.6Msz
DCN		61.45	34	iPd	28	25.60	0.8	WIT		69.36	37	ePd	29	16.00	0.3		N	17s		0.80um			
		1.0s	550.00nm				6.6mb			1.0s	625.00nm				6.6mb		E	17s		3.50um			
ECP		61.52	36	iPd	28	24.80	-0.6	CVF		69.51	48	eP	29	16.50	-0.4					PP	32	26.00	
		1.7s	820.00nm				6.6mb			0.9s	62.60nm				5.6mb					e	32	46.00	
FHC		61.53	311	ePd	28	25.80	0.1	ZUL		69.66	43	iPd	29	16.80	-1.0					eS	39	08.00	
ETA		61.80	35	iPd	28	26.90	-0.3	BUH		69.70	42	ePd	29	17.00	-1.0	HFS		74.29	30	iP	29	44.50	-0.4
		1.7s	1250.00nm				6.8mb	SLE		69.77	43	iPd	29	17.20	-1.2		Z	19s		4.00um			5.7Msz
DLE		61.83	34	iPd	28	27.90	0.5	TMA		69.84	45	iPd	29	18.30	-0.8	VKA		75.04	43	ePd	29	49.50	-0.1
		1.7s	900.00nm				6.6mb	LLS		70.01	44	iPd	29	19.70	-0.4			4.0s	2090.00nm				6.5mb X
COR		61.86	315	iPd	28	26.00	-1.8	TNS		70.05	40	iPc	29	19.60	-0.5					i	29	56.80	
DMU		61.86	34	iPd	28	28.20	0.5	DAG		70.25	10	iPd	29	19.30	-1.5					eS	39	26.00	
		1.0s	360.00nm				6.5mb			1.1s	78.50nm				5.6mb	KSP		75.09	40	iPd	29	50.00	0.2
ALI		61.92	52	iP+	28	28.00	-0.3	FIR		71.34	47	eP	29	21.00	-6.9X			2.0s	677.00nm				6.3mb
				i	36	56.00						eS	38	42.00		ZST		75.56	43	iP	29	51.80	-0.7
DDK		61.98	34	iPd	28	28.80	0.4	OGA		71.39	44	iPd	29	28.50	0.0					i	29	58.70	
		1.5s	500.00nm				6.4mb			2.0s	435.00nm				6.1mb	BLY		75.62	46	iP	29	53.60	0.7
GMW		62.27	318	eP	28	28.20	-2.3	HAM		71.40	37	iPd	29	30.00	1.9	UPP		76.23	31	iPd	29	55.10	-0.9
BFW		62.27	317	eP	28	29.40	-1.2	MUD		71.41	34	iPd	29	28.20	0.1					i	39	36.00	
MCW		62.61	320	eP	28	31.00	-1.8	FUR		71.67	43	iPd	29	29.60	-0.3	SRO		76.38	43	iPd	29	55.00	-2.1
PGC		63.00	320	eP	28	32.90	-2.3			2.2s	1030.00nm				6.4mb					iS	39	41.40	
AKU		63.04	19	iP	28	35.30	0.0		Z	19s		3.20um			5.6Msz	BUD		76.86	44	e(P)	30	01.00	1.2
		1.9s	463.00nm				6.3mb	GRF		71.77	41	iPd	29	30.40	-0.1	KRA		77.42	41	iPd	30	03.60	0.8
EBR		63.07	49	eP	28	38.00	2.1			1.9s	616.00nm				6.3mb			1.4s	521.00nm				6.4mb
				eS	37	08.00			Z	22s		3.60um			5.6Msz		Z	19s		5.70um			5.9Msz
EPF		63.36	47	iPd	28	38.50	0.7	SIT		71.83	327	eP	29	30.50	-0.1		N	19s		1.60um			
LPF		63.52	41	iPd	28	38.60	-0.1	ALE		72.08	0	ePd	29	29.30	-2.4		E	19s		4.10um			
GRR		63.72	41	iPd	28	40.00	-0.1			0.7s	74.00nm				5.8mb					i	30	10.30	
		1.0s	104.00nm				5.9mb	MOX		72.11	40	iPd-	29	32.00	-0.5					i	30	16.80	
MFF		63.76	43	iPd	28	40.40	0.0			2.2s	438.00nm				6.0mb					eS	39	50.00	
		1.5s	225.00nm				6.0mb		Z	19s		3.60um			5.7Msz	PSZ		77.44	43	ePd	30	03.00	-0.1
LFF		64.01	45	eP	28	42.00	0.0		E	19s		2.80um				SPC		77.64	42	iPd	30	05.90	1.6
		1.4s	199.00nm				6.0mb					i	29	56.00		JOS		77.85	43	iPd	30	06.20	0.9
FLN		64.06	41	iPd	28	42.10	-0.2					eS	38	52.00				1.4s	360.00nm				6.2mb
LDF		64.25	41	iPd	28	43.50	0.0					e	39	40.00		OHR		78.41	50	iPd	30	10.10	1.5
LPO		64.28	45	iPd	28	43.70	-0.1					e	40	12.00						iPcP	30	16.90	
		1.2s	157.00nm				6.0mb					eSS	43	40.00						i	30	24.10	
ESK		64.38	33	ePd	28	43.00	-1.2					iLQ	48	00.00						iS	40	05.90	
		1.0s	200.00nm				6.1mb	HOF		72.25	40	eP	29	32.80	-0.5	COL		78.52	334	iPd	30	07.90	-0.7
EKA		64.41	33	Pd	28	43.50	-0.9			2.4s	764.00nm				6.2mb			0.7s	139.00nm				6.1mb
RJF		64.63	45	eP	28	46.00	0.0		Z	18s		3.90um			5.7Msz		Z	19s		18.80um			6.4Msz
		1.5s	158.00nm				5.9mb	MBC		72.29	348	ePd	29	31.40	-1.7					e	33	05.00	
LSF		64.82	44	iPd	28	47.20	-0.1			0.4s	34.00nm				5.7mb	FBA		78.52	334	iPd	30	07.80	-0.8
CAF		64.93	45	iPd	28	47.90	-0.2					pP	29	42.00	34kmX					ePP	33	05.50	
TCF		65.29	44	iPd	28	50.40	0.1	WET		72.80	42	iPd	29	36.40	-0.2	SKO		78.83	49	iPd	30	11.00	0.2
		1.2s	86.40nm				5.7mb			2.4s	667.00nm				6.2mb					iPcP	30	18.00	

i 30 24.50
iS 40 08.00
UZH 79.01 42 iPd 30 13.00 1.4
1.6s 530.00nm 6.3mb
Z 18s 2.50um 5.6Msz
E 18s 2.50um
iPcP 30 24.00
ipP 30 34.00 78kmX
iPP 33 10.00
iS 40 10.00
PME 79.13 331 eP 30 11.60 -0.4
1.3s 254.00nm 6.0mb
Z 20s 10.00um 6.2Msz
PMR 79.18 331 iPd 30 12.10 -0.1
ePP 33 14.00
GZR 79.55 46 ePc 30 01.50 -13.2X
VAY 79.72 50 iPd 30 16.70 1.1
NUR 79.74 30 iPd- 30 15.40 0.1
1.0s 128.00nm 5.8mb
Z 16s 4.00um 5.9MszX
i 30 22.50
eS 40 12.00
eScS 40 44.00
BMR 79.88 43 ePc 30 18.00 1.7
LVV 80.07 41 iPd 30 18.00 0.7
4.0s 4500.00nm 6.8mb X
Z 17s 1.90um 5.5MszX
ePP 33 20.00
iS 40 21.00
iPPS 41 26.00
THE 80.08 50 Pd 30 14.00 -3.5X
S 40 22.00
VTS 80.08 48 iPd 30 19.00 1.5
KEV 80.22 21 iP 30 17.00 -0.7
1.0s 76.00nm 5.6mb
eS 40 24.00
ePPS 41 12.00
SUF 80.32 28 iP 30 18.20 -0.2
0.5s 18.70nm 5.3mb
COZ 80.66 46 iPd 30 21.00 0.2
DRA 80.66 46 eP 30 21.00 0.5
BCAO 80.68 87 iPd- 30 22.00 0.7
1.0s 118.00nm 5.8mb
eS 40 36.00
BNG 80.69 87 iPd 30 22.40 1.0
1.0s 199.00nm 6.0mb
KJF 80.91 26 iP 30 21.20 -0.3
1.2s 260.00nm 6.1mb
Z 20s 6.10um 6.0Msz
ePP 33 36.00
eS 40 24.00
IMA 80.92 336 eP 30 21.50 -0.2
1.3s 247.00nm 6.0mb
ATH 80.92 53 iPd 30 23 00 0.9
eS 40 31.00
KDC 81.12 327 eP 30 22.80 0.2
CMP 81.15 46 iPd 30 22.00 -1.2
MLR 81.76 45 iPd 30 27.50 1.0
KDZ 81.77 49 iPd 30 27.00 0.6
CVO 81.89 45 iPd 30 38.00 11.0X
DIM 81.90 49 iP 30 28.00 1.0
BUC1 81.95 46 iP 30 30.00 2.7
ISR 82.23 46 ePd 30 29.00 0.2
VRI 82.26 45 iPc 30 29.00 0.1
TTA 82.28 333 iPc 30 28.10 -0.6
BAC 82.30 44 eP 30 27.00 -2.0
PUL 82.63 31 iPd 30 31.00 0.5
3.0s 3000.00nm 6.8mb
Z 20s 4.70um 5.9Msz
N 20s 1.20um
E 20s 3.90um
ipP 30 48.00 61kmX
eSP 41 26.00
IAS 82.67 43 eP 30 32.00 1.0
EZN 82.73 51 iPd 30 31.60 0.2
APA 82.77 23 iPd 30 30.60 -0.5
Z 20s 3.70um 5.8Msz
N 20s 0.60um
E 20s 2.50um
ePP 33 40.00
eSS 46 08.00
PPE 82.84 44 ePc 30 33.00 1.1
TLB 83.35 46 ePd 30 34.00 -0.5
CFR 83.35 45 ePc 30 34.50 0.0
DMK 83.53 49 iPc 30 35.50 0.0
KIS 83.58 43 iPd 30 36.00 0.4
2.5s 1100.00nm 6.5mb

iPP 33 44.00
iS 40 55.00
EDC 83.82 50 iPd 30 37.80 0.8
CTT 84.13 49 iP 30 38.50 -0.1
CIN 84.41 53 iPc 30 40.80 0.8
i 30 57.20
DST 84.52 51 iPd 30 40.90 0.3
KHE 84.57 8 iPd 30 40.00 -0.1
1.8s 350.00nm 6.2mb
Z 20s 3.20um 5.7Msz
N 20s 3.80um
E 20s 5.60um
isP 31 14.00
ePP 33 58.00
ePPP 35 59.00
ePPS 42 35.00
ISK 84.61 49 eP 30 41.30 0.3
YER 84.63 53 iPd 30 40.00 -1.2
YLV 84.93 50 iP 30 43.50 0.8
GPA 85.68 50 eP 30 46.70 0.3
ALT 85.74 51 iPd 30 47.50 0.7
ELL 85.98 54 iPd 30 49.50 1.4
ANM 86.01 335 eP 30 47.50 0.0
BCK 86.39 53 iPd 30 50.50 0.5
OBN 86.83 35 iPd 30 51.50 -0.1
2.0s 3000.00nm 7.2mb X
iS 41 28.00
eSPP 42 48.00
MOS 87.26 34 iPd 30 53.00 -0.7
2.5s 1600.00nm 6.8mb
Z 18s 5.20um 6.0Msz
N 18s 1.20um
E 18s 3.50um
ipP 31 19.00 98kmX
eS 41 32.00
SIM 87.55 45 ePd 30 55.00 -0.4
4.0s 2500.00nm 6.8mb X
eS 41 37.00
eSP 42 35.00
ANTO 87.63 50 iPd 30 57.00 1.0
1.5s 450.00nm 6.5mb
HLW 88.41 60 iP- 31 12.50 12.7X
iS 41 50.00
TUH 89.00 124 iPc 31 04.00 1.5
CER 89.13 124 iPc 31 04.00 0.9
ANN 89.76 44 iPd 31 07.00 1.1
8.0s 3000.00nm 6.6mb X
eSKS 41 32.50
eS 41 48.50
ILT 89.79 340 iPd 31 05.00 -0.6
2.0s 800.00nm 6.7mb
iPP 34 39.00
eSKS 41 30.00
eS 41 44.00
eSP 42 52.00
KVT 89.79 48 iPc 31 06.80 0.6
SUR 90.16 123 iPd 31 10.00 1.8
1 5s 556.00nm 6.6mb
Z 18s 31.60um 6.8Msz
SOC 91.78 45 iPd 31 16.50 1.3
2.1s 600.00nm 6.6mb
iS 42 16.00
KIM 92.82 119 iPd 31 22.90 2.5
0.9s 157.00nm 6.4mb
SWZ 93.02 117 iPd 31 21.60 0.2
e 35 02.00
HVD 93.76 120 iPd 31 27.60 2.9
1.7s 84.00nm 5.9mb
PYA 93.96 44 iPd 31 26.50 1.2
2.0s 220.00nm 6.2mb
Z 18s 3.02um 5.8Msz
N 18s 3.02um
E 18s 3.02um
isP 31 55.00
iPP 35 12.00
iSPP 44 22.00
BLF 94.10 119 eP 31 29.00 2.7
VIR 94.51 118 iPd 31 29.80 1.6
NVL 94.77 161 iPd 31 30.00 1.7
1.2s 90.00nm 6.1mb
Z 14s 6.30um 6.2MszX
N 19s 7.00um
E 19s 8.60um
ipP 31 55.00 92kmX
BUL 94.81 110 eP 31 31.00 1.3
1.0s 10.50nm 5.2mb
Z 18s 5.50um 6.1Msz

N 18s 5.50um
E 18s 3.44um
eS 35 24.00
BKR 95.01 46 iPd 31 31.00 0.7
2.6s 250.00nm 6.2mb
N 22s 1.90um
GRM 95.10 123 iPc 31 30.90 0.2
1.4s 76.00nm 5.9mb
KRI 95.22 106 iPd 31 32.00 0.3
iS 35 27.00
BPI 95.24 116 iPd 31 30.70 -1.0
PRE 95.31 115 e(P) 31 31.00 -1.0
SLR 95.39 115 iPd 31 33.50 1.2
0.5s 93.00nm 6.5mb
Z 19s 29.90um 6.8Msz
e 34 46.00
LEN 95.56 47 iPd 31 35.00 2.1
5.0s 1300.00nm 6.6mb X
eSKS 42 00.00
MTA 95.93 46 eP 31 34.60 0.3
ePP 35 28.00
eS 42 52.00
GRO 95.98 44 iPd 31 35.00 0.5
iPP 35 27.00
ERE 96.21 47 iPd 31 37.00 1.2
EVA 96.22 116 eP 31 38.50 2.4
MSL 96.41 51 iPc 31 37.50 0.9
e 35 27.00
MTD 97.08 106 iPd 31 41.00 1.0
iS 35 33.00
MAK 97.30 44 eP 31 42.00 1.6
8.0s 1500.00nm 6.6mb X
Z 20s 6.00um 6.1Msz
N 20s 0.90um
E 22s 0.80um
KRV 97.37 46 iPc 31 40.00 -0.9
TIK 97.75 356 ePd 31 40.50 -1.5
1.7s 70.00nm 5.9mb
Z 21s 6.50um 6.1Msz
N 22s 6.40um
E 20s 2.20um
esP 32 08.50
ePP 35 47.00
GRS 97.77 48 iPd 31 42.40 -0.5
2.0s 80.00nm 5.9mb
iPP 35 39.00
eSKS 42 17.00
ARU 97.78 29 ePd 31 42.70 0.3
2.8s 200.00nm 6.2mb
Z 18s 3.00um 5.8Msz
N 18s 1.00um
E 18s 2.00um
esP 32 12.50
ePP 35 37.50
ePS 44 35.00
eSPP 45 06.00
NRI 97.82 10 iPd 31 40.80 -1.5
2.0s 40.00nm 5.6mb
ePP 35 38.00
ePS 44 36.00
TAB 98.26 49 eP 31 46.00 0.9
SVE 98.50 28 ePd 31 45.20 -0.4
2.6s 90.00nm 5.8mb
epP 32 04.00 67kmX
ePS 44 45.00
eSPP 45 19.00
CNG 98.95 115 eP 31 52.00 3.8X
SPA 100.36 180 e(Pdif32 00.00 6.0X
1.0s 15.00nm 5.5mb
Z 19s 6.18um 6.1Msz
SEY 102.03 344 ePdiff32 01.00 -0.3
2.0s 80.00nm 6.0mb
Z 21s 7.50um 6.2Msz
N 21s 5.80um
E 23s 3.20um
eSP 45 13.00
e 51 08.50
IR2 102.55 50 ePdiff32 03.00 -1.4
MGD 104.78 343 ePdiff32 10.00 -3.5X
Z 21s 11.00um 6.4Msz
N 21s 7.40um
E 21s 2.10um
eSP 45 40.00
ePPS 46 44.00
VAN 106.80 45 ePdiff32 24.60 1.5
0.7s 170.00nm 7.2mb X
YAK 107.13 354 ePdiff32 37.90 14.0X

11d 08h

PET 107.60 335 ePKP 36 52.00 17.7X
Z 21s 7.65um 6.2Msz
N 21s 5.90um
E 21s 4.45um
SEM 111.39 24 ePKP 36 37.70 -3.9X
ePP 37 19.00
eSP 46 40.40
BOD 111.92 2 ePdiff32 46.70 1.3
AVY 112.59 106 ePKP 36 43.00 -2.1
DSH 113.57 40 iPdiff32 39.00 -14.3X
i 53 41.00
ANR 114.38 36 ePdiff33 15.60 18.8X
1.0s 150.00nm
KUL 114.58 40 iPdiff32 52.20 -5.6X
UER 115.10 16 ePKPd 36 56.80 8.1X
0.9s 50.00nm
iPP 37 50.00
TUP 115.35 358 ePKP 36 48.10 -1.0
MOY 116.57 11 ePKP 36 49.40 -2.1
ZAK 118.24 10 ePKP 36 51.50 -3.2X
0.9s 10.00nm
Z 20s 5.18um 6.2Msz
N 20s 3.13um
E 20s 0.69um
ePP 38 07.00
RHP 123.55 224 PKP 37 05.40 0.2
NDI 125.18 44 ePKP 37 08.00 -0.7
MAT 129.28 338 iPKPc 37 15.00 -1.4
0.8s 12.70nm
Z 21s 5.73um 6.2Msz
BJI 129.78 1 ePKP 37 15.50 -1.7
S 40 35.00
NOU 131.51 249 iPKPd 37 21.50 0.5
LZH 132.05 15 PKPd 37 21.00 -0.9
2.0s 151.00nm
E 20s 4.20um
PPP 39 38.00
eS 44 40.50
eSS 47 56.00
HYB 132.82 54 ePKPc 37 07.50 -16.1X
e 37 22.50
TIA 133.61 0 ePKP 37 23.20 -1.4
GBA 133.86 60 PKP 37 20.00 -5.6X
0.8s 10.00nm
GBA 133.86 60 PKPd 37 24.90 -0.7
1.1s 31.50nm
XAN 135.08 10 PKP 37 26.20 -1.3
PP 40 00.00
CD2 136.92 17 ePKP 37 30.00 -1.1
ePP 40 11.00
NJ2 137.74 358 PKP 37 30.00 -2.5
PP 40 16.00
PKS 41 06.00
SSE 138.54 355 PKPd 37 32.00 -2.0
PP 40 18.00
PKS 41 06.00
WHN 139.17 4 ePKP 37 31.50 -3.7X
ePP 40 20.00
PKS 41 06.20
WAM 141.54 223 ePKP 37 36.00 -3.3X
CAN 141.94 224 ePKP 37 39.40 -0.7
KMI 141.95 22 ePKP 37 33.00 -7.7X
7.0s 0.50nm
E 20s 2.90um
PP 40 45.00
YOU 142.93 225 ePKP 37 39.10 -2.7X
ANP 144.36 353 ePKP 37 39.00 -5.6X
RAB 144.81 278 iPKP 37 43.00 -2.6
QZH 144.82 358 iPKPd 37 44.00 -1.2
PP 40 56.00
BFD 144.93 216 iPKPd 37 44.90 -0.2
KVG 145.78 281 ePKP 37 46.00 -1.2
CHG 145.81 32 iPKPd-37 46.30 -0.8
2.0s 765.00nm
eS 41 56.00
CMS 146.23 227 ePKP 37 48.00 0.5
GZH 146.48 6 iPKPd 37 48.60 0.6
PP 41 13.50
BDT 147.13 33 ePKP 37 48.00 -1.2
0.8s 130.00nm
HKC 147.34 5 iPKP 37 50.00 0.6
MCO 147.46 6 ePKP 37 51.50 1.9
ADE 148.69 215 iPKPd 37 55.50 4.1X
0.5s 63.40nm
MOM 148.90 283 ePKP 37 53.00 0.8
STK 148.96 223 ePKP 37 51.00 -0.8
LAT 150.33 275 ePKP 37 57.00 2.7X
CTA 150.44 248 iPKP 37 54.20 -0.1
1.7s 144.00nm
CTAO 150.44 248 ePKPd 37 54.00 -0.3
PMG 150.51 269 e(PKP)37 48.00 -6.6X
PCT 150.54 32 ePKP 37 55.60 1.1
e 41 34.90
SZP 152.02 353 ePKP 37 40.00 -16.7X
0.5s 143.00nm
BSI 153.05 55 ePKPc 38 04.50 6.2X
BAG 153.13 353 ePKP 37 56.20 -2.3
1.7s 185.00nm
OCP 154.81 351 ePKP 38 04.00 3.4X
JAY 155.40 287 ePKPc 38 01.00 -0.6
SNG 155.93 44 ePKP 38 02.00 -0.2
TSI 156.83 54 e(PKP)38 15.00 11.6X
PSI 157.60 55 ePKPd 38 04.60 0.2
1.5s 80.00nm
IPM 158.03 48 ePKPd 38 05.00 0.1
e 38 38.60
e 42 18.20
ASPA 159.35 228 ePKP 38 06.00 -0.1
PPI 160.56 60 ePKP 38 07.50 -0.1
e(S) 42 32.00
DAV 160.72 334 ePKP 38 07.00 -0.7
WB2 160.97 238 iPKPd 38 07.20 -0.7
i 38 51.30
e 42 29.80
WRA 160.98 238 PKP 38 08.00 0.1
2.2s 266.00nm
KGM 161.44 49 ePKPc 38 09.10 0.6
e 38 53.00
e 42 36.50
WBN 162.04 208 ePKP 38 08.00 -0.8
KKM 163.61 4 ePKPd 38 09.20 -1.6
eS 39 02.00
MEK 163.85 184 ePKP 38 10.00 -0.6
MTN 166.17 259 ePKP 38 12.00 -0.8
AAI 167.22 301 e(PKP)38 11.00 -2.7X
S.D. = 1.1 on 414 of 449 obs.

APR 18, 1983 10h 58m 48.45± 0.33s
27.748 N ± 1.7km 62.051 E ± 1.2km
DEPTH = 39.5 ± 2.8 km
6.6mb (113 obs.) 6.4Msz (25 obs.)
SOUTHERN IRAN (353)
Felt strongly in southeastern Iran. Also felt at Karachi, Pakistan.

QUE 4.93 59 iPd 00 04.50 2.2
KHI 7.01 336 iP+ 00 33.20 1.7
SHI 8.58 285 iPc 01 55.00 61.8X
MHI 8.80 346 iPc+ 00 58.70 2.5
1.5s 4800.00nm 7.4mb
eS 02 59.00
ASH 10.64 344 eP 01 22.50 1.1
0.7s 170.00nm 6.3mb
eS 03 24.00
VAN 10.70 343 eP 01 22.70 0.5
eS 03 20.20
KUL 12.01 31 iPc 01 41.80 1.8
4.6s *******nm 7.5mb X
N 12s 242.00um
iS 03 59.30
TEH 12.07 314 eP 01 40.00 -0.9
DSH 12.16 26 iPc 01 43.50 1.5
Z 16s 53.00um
eS 03 59.20
IR2 12.34 313 iPc 01 47.70 3.2X
SAM 12.58 18 P 01 47.40 -0.2
GAR 13.17 29 iPc 01 55.20 -0.3
Z 15s 272.00um
iS 04 20.40
NDI 13.41 82 iPd 01 55.00 -3.5X
0.7s 596.00nm 6.6mb
iS 04 11.00
POO 14.20 128 iPc 02 07.70 -1.3
KER 14.40 301 eP 02 13.50 1.9
TAS 14.79 22 P 02 16.00 -0.6
ANR 15.51 31 iPc 02 25.70 -0.2
4.0s 8100.00nm 6.3mb X
Z 11s 105.00um
N 11s 130.00um
E 11s 230.00um
eS 05 17.00
BAK 16.11 325 P 02 36.00 2.5
KSH 16.44 41 iPc 02 39.00 1.1
PP 02 54.00
eS 05 48.00
TAB 16.72 312 iP+ 02 44.00 2.5
GRS 17.54 316 iPc 02 51.20 -0.5
2.0s 700.00nm 5.4mb X
NRN 17.81 36 P 02 53.20 -2.0
NAK 17.95 314 iPd 02 58.70 2.1
MSL 18.17 303 iPc 02 58.00 -1.3
iS 06 22.50
iPcP 07 29.00
FRU 18.18 31 P 03 00.00 0.5
KRV 18.26 319 eP 03 00.00 -0.4
HYB 18.36 121 iPd 03 00.60 -1.3
1.0s 1440.00nm 6.1mb
e 03 18.00
eS 06 21.00
MAK 19.30 326 iPc 03 13.00 0.2
6.0s *******nm 7.0mb X
Z 25s 302.00um
N 26s 272.00um
E 25s 894.00um
AAA 19.62 34 iPc 03 16.00 -0.5
6.0s 4.60nm 2.9mb X
iS 06 51.00
PRZ 19.82 38 P 03 18.00 -0.8
LEN 19.82 316 iPc 03 16.00 -2.8
2.0s 2800.00nm 6.2mb
Z 24s 84.00um
N 24s 40.00um
E 24s 60.00um
TLG 19.84 35 iPc 03 16.70 -2.1
Z 16s 80.00um
iS 06 54.00
GBA 20.10 131 P 03 21.30 -0.3
DMN 20.42 85 iPd 03 25.20 0.0
GRO 20.43 324 P 03 25.00 0.1
KKN 20.55 84 iPd 03 26.80 0.2
BKR 20.60 317 iPc 03 27.00 0.2
2.8s *******nm 6.8mb
E 20s 466.00um
ePPP 03 55.00
PKI 20.69 85 iPd 03 28.20 0.1
PYA 22.29 322 iPc 03 43.50 -0.2
1.5s 1880.00nm 6.3mb
N 13s 27.50um
eS 07 46.50
isS 08 14.00
iSSS 08 33.00
KOD 22.67 137 iPd 03 49.20 1.2
1.0s 400.00nm 5.8mb
OBO 23.55 232 iP 04 02.20 6.1X
JER 23.63 286 eP 03 59.00 2.0
eS 08 14.00
MKL 23.84 232 iP 04 03.40 4.5X
TDD 23.95 232 iP 04 03.80 3.8X
SOC 23.95 317 P 03 59.00 -0.8
ARO 24.18 232 iPd 04 05.80 3.4X
i 08 35.00
KVT 25.13 309 iP 04 12.40 1.1
LSA 25.57 79 iPd 04 17.70 1.7
iS 08 40.90
ANN 26.12 317 iPc 04 20.00 -0.3
7.0s 7000.00nm 6.3mb X
Z 28s 76.00um 6.1MszX
N 28s 160.00um
E 28s 60.00um
WMO 26.12 45 iPc 04 21.50 1.0
S 08 45.00
PcS 11 20.00
SEM 26.54 27 P 04 23.90 -0.3
ePP 05 11.80
eS 08 45.40
HLW 26.96 282 iP+ 04 29.50 1.3
eS 09 08.00
ANTO 27.03 304 eP 04 28.90 0.0
SIM 28.10 315 P 04 39.00 0.5
BCK 28.11 298 eP 04 37.20 -1.5
KDE 28.46 306 eP 04 40.80 -0.9
ELL 28.52 296 iPc 04 42.40 -0.1
ARU 28.74 356 iPc 04 44.00 -0.1
2.0s 1700.00nm 6.4mb
Z 12s 115.00um 6.7MszX
N 12s 80.00um
E 12s 24.00um
epP 05 02.00 77kmX
iPP 05 42.00
iS 09 31.00

18d 11h

			isS	10	01.00		LZH		36.21	66	iPd	05	51.00	1.3	IRK		39.78	40	iPc	06	19.80	0.6
			iSS	11	03.00			N	12s	13.00um							1.5s	1170.00nm				6.5mb
			iSSS	11	20.00			E	12s	39.30um						Z	23s	112.80um				6.6MszX
AAE	28.79	234	eP	04	47.20	1.9					sP	06	00.00			N	22s	28.40um				
ALT	28.81	301	iPc	04	44.10	-1.0					ePP	07	18.00			E	20s	75.10um				
GPA	28.97	304	iP	04	45.80	-0.6					PPP	07	40.00						epP	06	32.00	45kmX
SVE	29.06	358	iPc	04	46.00	-1.0					S	11	20.00						esP	06	42.00	
	2.0s	1300.00nm			6.3mb						SS	13	46.00						ePP	07	58.00	
	Z 14s	162.00um			6.8MszX		SSR		36.27	309	iP	05	50.00	0.2					ePPP	08	18.00	
	N 14s	103.00um					CD2		36.35	75	iPd	05	50.90	0.2					ePcP	08	24.00	
	E 14s	37.00um									sP	06	18.00						eS	12	16.00	
			iPP	05	47.00						ePP	07	20.00						eSS	15	06.00	
			iS	09	36.00						ePPP	07	37.30						eSSS	15	50.00	
			eSS	10	57.00						iS	11	28.50		ZST		40.19	313	iP	06	21.50	-1.1
HRT	29.59	305	iP	04	51.30	-0.7	LVV		36.38	318	iPc	05	51.00	0.3			1.6s	748.00nm				6.2mb
YLV	29.73	304	iP	04	52.60	-0.7			7.0s	6000.00nm				6.6mb X					i	06	45.80	
YER	29.87	297	iPc	04	53.70	-0.8		Z	20s	30.10um				6.1Msz					iPP	08	06.40	
DST	30.06	302	iPc	04	55.90	-0.3					iPP	07	15.00						e(S)	12	17.50	
ISK	30.10	305	iP	04	55.10	-1.3					ePPP	07	31.00		SGO		40.30	301	iPc	06	24.50	1.0
IST	30.14	305	iPc	04	56.00	-0.8					iS	11	26.00						iS	12	30.50	
CTT	30.58	305	iP	04	58.60	-2.1					eSS	13	51.00		MEI		40.34	296	eP	06	24.50	0.6
EDC	30.80	303	iPc	05	01.40	-1.2	KMI		36.41	85	iPd-	05	51.50	-0.1	XAN		40.43	69	Pd	06	25.30	0.5
IZM	30.86	299	iPc	05	03.00	-0.3			5.0s	10.60nm				4.0mb X					S	12	25.90	
ELT	31.14	28	iPc	05	04.00	-1.4		N	12s	21.50um									SS	15	27.40	
	1.2s	960.00nm			6.5mb						sP	06	15.00						ScS	16	23.40	
NVS	31.22	24	eP	05	03.50	-2.6					PP	07	14.00		VKA		40.72	313	iPc	06	27.20	0.3
	1.1s	1240.00nm			6.6mb						PPP	07	40.00				1.1s	1370.00nm				6.6mb
DMK	31.24	306	iPd	05	05.40	-1.1					S	11	27.00						i	06	35.70	
PRK	31.77	300	eP	05	10.50	-0.7					sS	11	54.00						iPP	08	31.20	
NPS	31.82	293	eP	05	12.50	0.8	UZH		37.00	315	iPc	05	56.00	0.1					i	08	43.00	
EZN	31.84	302	iPc	05	10.60	-1.1			3.0s	********nm				7.2mb					ScP	12	23.00	
TLB	31.91	311	iPc	05	11.50	-0.8					ipP	06	12.00	63kmX					eS	12	35.00	
CFR	32.04	312	ePc	05	12.50	-0.9					iS	11	38.00		DUI		41.01	303	iPc	06	30.00	0.7
KIS	32.30	316	iPc	05	14.00	-1.7					isS	12	08.00						iS	13	02.00	
	3.0s	2300.00nm			6.5mb		MOY		37.66	40	iPc	06	02.70	1.3	GIB		41.22	297	eP	06	31.60	0.3
			iPP	06	26.00				1.2s	1180.00nm				6.7mb			0.8s	3.10nm				4.1mb X
			ipPP	06	39.00		NAI		37.70	224	iPd	06	05.00	2.6	BTO		41.23	59	iPd	06	32.60	1.3
			iS	10	14.00				2.0s	1240.00nm				6.5mb	NUR		41.34	333	iP	06	32.00	0.3
PPE	32.77	313	iPc	05	19.00	-0.8	JOS		38.07	314	iPc	06	05.40	0.5					ePP	08	04.00	
BIR	32.78	314	eP	05	21.00	1.1			1.8s	1090.00nm				6.4mb					eS	12	36.00	
BRD	32.88	312	ePd	05	22.50	1.7	LCI		38.27	301	eP	06	03.80	-2.8					eSS	15	40.00	
OBN	33.02	333	iPc	05	21.00	-0.8					eS	11	40.50		KSP		41.39	317	iPc	06	33.00	0.6
	4.0s	7200.00nm			6.9mb X		SPC		38.47	315	iPc	06	09.10	0.6			1.0s	555.00nm				6.2mb
			isP	05	45.00						i(PP)	07	56.40						iPP	08	48.80	
			iPP	06	40.00						eS	12	05.00						iS	12	44.50	
			iS	10	30.00		ZAK		38.51	43	iPc	06	10.10	1.6	LJU		41.48	309	iPc	06	33.80	0.7
			eSS	12	30.00				1.7s	1310.00nm				6.5mb					e	08	10.70	
MOS	33.04	335	iPc	05	21.00	-1.0		Z	22s	121.00um				6.7Msz					ePcP	08	39.00	
	3.0s	6700.00nm			7.0mb			N	22s	38.40um									eS	12	41.00	
	Z 27s	160.00um			6.6MszX			E	21s	96.80um									eScS	16	07.20	
	N 27s	75.00um									ePP	07	42.00		CEY		41.50	309	iPc	06	33.70	0.3
	E 27s	85.00um									ePPP	08	00.00						iS	12	43.00	
			ePP	06	34.00						iS	12	02.80		SNG		41.83	112	iPd-	06	35.50	-0.8
			ePcP	08	11.00						eScS	16	18.00				1.0s	560.00nm				6.2mb
			eS	10	34.00		BSI		38.58	119	ePd	06	09.00	-0.5		Z	22s	74.10um				6.5Msz
			eSS	12	42.00				1.5s	1050.00nm				6.4mb		N	22s	33.30um				
ISR	33.09	311	iPc	05	23.00	0.3	PUL		38.66	335	iPc	06	09.00	-0.6		E	22s	47.00um				
CLI	33.11	314	iPc	05	23.00	0.2			2.0s	4200.00nm				6.9mb					i	07	07.00	
BUC1	33.18	310	iPc	05	23.50	0.1					ePP	07	40.00						i	12	25.00	
VRI	33.22	312	iPc	05	24.00	0.2					iS	12	00.00		AQU		41.85	303	iP	06	37.00	0.7
GTA	33.32	60	iPd	05	25.80	1.0	PCT		38.76	101	iPd	06	11.90	0.9					iS	12	52.00	
			PPP	06	42.50				1.6s	53.00nm				5.1mb X	TRI		41.96	309	iPc	06	36.50	-0.5
			iS	10	38 00		BUD		38.76	312	iPc	06	11.00	0.3					i	06	44.00	
BAC	33.36	314	eP	05	23.00	-1.9			1.0s	130.00nm				5.7mb					i	07	02.30	
CVO	33.57	312	iPc	05	28.00	1.2	BRT		38.89	302	i(P)	06	10.00	-1.8					i	07	09.30	
ATH	33.57	298	iP	05	27.00	0.1	KRA		38.93	317	iPc	06	12.50	0.4					iPPP	08	42.00	
			ePP	06	56.00				1.1s	2130.00nm				6.9mb					iS	12	40.00	
			iS	10	56.00			Z	28s	74.10um				6.4MszX					iSS	15	54.00	
MLR	33.61	312	iPc	05	28.00	0.7		N	28s	34.40um									eScS	16	32.90	
CEA	34.12	314	iPc	05	32.00	0.3		E	28s	62.80um					KMR		42.10	312	iP+	06	38.60	0.3
CMP	34.14	311	iPc	05	35.00	3.2X					i	06	21.00						i	08	40.70	
DRA	34.49	309	eP	05	39.00	4.3X					i	06	37.80						i	09	07.50	
COZ	34.62	311	iPc	05	36.00	-0.1					i	07	48.00						iS	12	57.80	
VAY	34.93	303	iPc	05	37.80	-0.7					eS	11	46.00		SUF		42.11	336	iP	06	37.80	-0.3
KZN	35.36	301	eP	05	42.00	-0.4	SRO		39.31	313	iP	06	13.40	-1.9			0.3s	133.00nm				6.1mb
BDT	35.58	99	ePd	05	42.50	-1.8					i	06	32.00		POI		42.21	304	eP	06	39.50	0.4
	1.2s	1150.00nm			6.7mb						iPP	08	02.00						eS	13	22.00	
SKO	35.88	304	iPc	05	46.00	-0.6					iS	12	10.00		PRU		42.26	315	iPc	06	39.70	0.2
			i	05	58.00						i(SS)	15	42.00				1.0s	455.00nm				6.2mb
			iPP	07	10.00		ORI		39.39	300	eP	06	16.00	0.0		Z	23s	36.50um				6.2MszX
			iPPP	07	23.00						eS	12	20.00			N	24s	22.60um				
			iS	11	25.00		BLY		39.42	308	iP	06	17.10	0.9		E	22s	33.60um				
			iSSS	14	10.00		GYA		39.57	81	Pd	06	17.00	-0.9					PP	08	36.00	
VLS	36.05	298	eP	05	47.00	-1.1					sP	06	43.00						S	12	55.00	
OHR	36.21	303	iP	05	47.10	-2.4					PP	08	04.00						SS	16	26.00	
			i	05	58.00						PPP	08	18.00		RDP		42.32	303	eP	06	40.50	0.3
			iS	11	25.30						S	12	16.00		TSI		42.34	118	ePd	06	41.40	0.9

18d 11h

ERC	42.35	297	eP	06 40.00	-0.4
MNS	42.39	303	iP	06 40.50	-0.1
	1.1s	0.54nm			3.2mb X
			iS	13 20.00	
HHC	42.41	59	Pd	06 42.50	1.5
			PPP	08 47.00	
			ScP	12 31.00	
			PcS	12 40.00	
KBA	42.45	310	ePc	06 41.20	-0.2
	1.0s	377.00nm			6.1mb
			i	06 51.00	
			(PP)	08 46.70	
			i	11 12.00	
			e	12 33.30	
			i	13 06.30	
KJF	42.55	339	iP	06 41.00	-0.6
	0.7s	120.00nm			5.7mb
			i	06 48.20	
			ePP	08 16.00	
			iS	12 59.50	
			eSS	16 36.00	
KHC	42.68	313	iPc	06 43.00	0.0
	1.5s	1710.00nm			6.6mb
Z	24s	23.60um			6.0MszX
N	24s	17.30um			
E	24s	27.40um			
			e	06 51.50	
			S	13 05.50	
			SS	16 26.00	
BRG	42.84	316	iPc	06 45.00	0.8
	1.5s	1180.00nm			6.4mb
			i	07 13.90	
			P'P'	08 20.00	
			eS	13 10.70	
BHG	42.87	311	iPc	06 44.10	-0.5
TIY	43.09	63	iPd	06 47.50	1.0
			S	13 09.00	
PSI	43.13	119	iPd	06 46.50	-0.4
WET	43.13	313	iPc	06 46.30	-0.4
Z	22s	27.80um			6.1Msz
APA	43.44	344	iPc	06 48.30	-0.5
	0.8s	1800.00nm			6.9mb
Z	19s	87.00um			6.7Msz
			isP	07 10.00	
			iPP	08 30.00	
			iS	13 05.00	
			esS	13 30.00	
			iSS	16 24.00	
CTI	43.47	309	iP	06 49.50	0.0
CLL	43.52	316	iPc	06 50.70	1.0
	1.6s	3800.00nm			6.9mb
			isP	07 15.00	
			iS	13 17.00	
			P'P'	38 06.00	
FIR	43.52	305	iPd	06 50.00	0.2
			iS	13 12.00	
BRL	43.63	318	ePc	06 52.00	1.4
IPM	43.65	115	ePd	06 51.00	-0.2
	1.0s	20.80nm			4.8mb X
			e	07 10.30	
			e	08 38.10	
BRN	43.67	318	iPc	06 51.80	0.9
OGA	43.99	310	iPc	06 53.20	-0.7
HOF	44.00	315	iPc	06 53.80	0.1
			eS	13 25.00	
UPP	44.01	329	iPc	06 52.60	-0.9
			iPP	08 42.00	
			iS	13 16.00	
FUR	44.01	312	iPc	06 53.40	-0.4
Z	22s	28.60um			6.1Msz
			eS	13 22.00	
GAP	44.05	311	iPc	06 53.40	-0.7
SAL	44.20	308	eP	06 55.50	0.2
			eS	12 37.50	
MOX	44.23	315	iPc+	06 56.30	0.8
	1.2s	143.00nm			5.6mb
Z	18s	20.00um			6.1Msz
N	21s	26.50um			
E	21s	25.90um			
			i	07 12.00	
			i	07 35.00	
			i	07 41.00	
			iPP	08 39.00	
			i	09 00.00	
			iS	13 28.00	
			iSS	17 00.00	
			e	38 38.00	

GRF	44.30	314	iPc	06 57.00	0.9
	1.4s	3020.00nm			6.9mb
Z	21s	13.00um			5.8Msz
			eS	13 30.00	
GRFO	44.30	314	iPc	06 56.90	0.8
NRI	44.36	13	iPc	06 55.30	-1.0
	1.3s	820.00nm			6.4mb
Z	17s	96.00um			6.8MszX
N	17s	67.00um			
			iS	13 24.00	
			iSS	16 33.00	
COP	45.02	322	iPc	07 02.60	0.9
	1.8s	4360.00nm			7.0mb
			iS	13 30.00	
KLM	45.02	116	ePc	07 07.50	5.3X
SOD	45.05	342	iP	07 01.40	-0.4
GEN	45.24	306	eP	07 02.00	-1.6
LLS	45.38	310	eP+	07 04.50	-0.5
TMA	45.39	309	eP+	07 04.00	-1.1
WHN	45.43	73	iPd	07 06.00	0.7
			ScP	12 30.00	
			iS	13 42.80	
			sS	14 09.80	
STU	45.47	312	iPc+	07 04.50	-0.9
	1.0s	1860.00nm			6.9mb
SLE	45.81	311	eP+	07 07.60	-0.6
HAM	45.85	319	iPc	07 09.70	1.4
ZUL	45.85	310	eP+	07 07.40	-1.1
HFS	45.92	329	eP	07 08.60	-0.2
	1.0s	802.00nm			6.6mb
Z	20s	24.20um			6.1Msz
BJI	45.93	60	eP	07 10.00	0.8
			pP	07 17.00	23kmX
			PcP	08 50.00	
			PP	08 54.00	
			PPP	09 33.00	
			ScP	12 43.00	
			eS	13 43.00	
			sS	13 55.00	
			SS	17 02.00	
ORO	45.98	308	eP	07 08.50	-1.2
MMK	46.02	308	eP+	07 08.60	-1.5
BUH	46.09	312	iPc	07 09.50	-0.9
TNS	46.15	314	iPc	07 11.80	0.9
			eS	13 54.10	
PPI	46.26	121	ePd	07 11.50	-0.5
			eS	12 47.30	
GZH	46.30	84	iPd	07 12.00	-0.2
			ipP	07 34.00	92kmX
			PP	09 02.00	
			S	13 54.00	
			isS	14 27.00	
			SS	17 03.00	
STV	46.38	306	eP	07 11.70	-1.1
DIX	46.41	308	eP+	07 12.40	-0.8
GWF	46.52	312	iPc	07 13.10	-0.7
KEV	46.63	344	iP	07 13.50	-0.8
	0.7s	294.00nm			6.3mb
			i	07 19.00	
			ePP	09 04.00	
			iS	13 58.20	
			eSS	17 20.00	
CDF	46.69	312	iPc	07 14.50	-0.7
ECH	46.75	311	iPc	07 14.50	-1.1
MCO	46.77	85	eP	07 16.10	0.0
BAF	46.82	311	iPc	07 15.10	-1.2
BGG	46.86	314	iPc	07 17.40	1.1
FRF	46.86	305	eP	07 15.60	-0.9
	1.1s	510.00nm			6.4mb
TIA	46.94	65	iPd	07 17.80	0.6
			pP	07 36.50	76kmX
			sP	07 45.50	
			PP	09 10.00	
			ScP	12 33.50	
			PcS	12 42.00	
			S	14 06.00	
			ScS	17 03.50	
LMR	46.95	305	eP	07 16.50	-0.7
	1.2s	180.00nm			5.9mb
BSF	46.96	311	iPc	07 16.80	-0.6
BOD	46.98	35	iPc	07 16.00	-1.2
	1.1s	1530.00nm			6.9mb
MUD	46.99	323	iPc	07 18.10	0.8
KGM	47.00	116	ePd	07 17.20	-0.7
	1.9s	1130.00nm			6.5mb
			e	09 04.00	
BNS	47.06	315	iPc	07 18.80	0.9

			ePP	09 12.50	
			eS	14 08.00	
LRG	47.06	305	iPc	07 17.20	-0.9
	1.1s	321.00nm			6.2mb
STB	47.22	315	iPc	07 20.20	1.0
HKC	47.26	84	iP	07 20.00	0.1
			iS	15 06.00	
HAU	47.27	311	iPc	07 19.20	-0.5
NB2	47.39	329	P	07 18.70	-1.8
	0.9s	680.00nm			6.6mb
BNG	47.43	249	iPd	07 22.00	0.7
	1.0s	17.00nm			5.0mb X
WTS	47.44	316	iPc	07 21.90	1.0
	0.8s	613.00nm			6.7mb
			epP	07 39.00	68kmX
			eS	14 16.00	
BCAO	47.44	249	iP	07 21.30	-0.1
WLF	47.55	313	P+	07 25.00	3.2X
			e	09 30.00	
			S	14 13.00	
WIT	47.65	317	Pc	07 23.60	1.1
	1.1s	1880.00nm			7.0mb
			e	07 32.00	
ENN	47.82	315	iPc	07 25.00	1.1
	0.8s	602.00nm			6.7mb
			epP	07 41.00	62kmX
			eS	14 28.00	
NPA	47.98	210	iP	07 28.00	2.5
			ePP	09 01.00	
			e	10 46.00	
			iS	14 46.00	
			eSS	17 19.00	
AVY	48.42	198	iPd	07 29.90	0.8
DBN	48.45	316	iP+	07 29.00	0.2
			epP	07 41.00	43kmX
			e	13 50.00	
			iS	14 29.00	
			eSS	18 08.00	
DOU	48.60	314	iPc+	07 31.00	1.0
	0.9s	2390.00nm			7.2mb
			S	14 21.00	
UCC	48.81	315	iPd+	07 32.50	0.9
			PP	09 28.00	
			S	14 34.00	
LBF	48.82	309	iPc	07 31.40	-0.4
SMF	48.90	309	iPc	07 31.90	-0.5
LOR	48.91	310	iPc	07 32.10	-0.3
NJ2	48.95	70	Pd	07 33.30	0.4
			PP	09 25.00	
			iS	14 34.50	
SSF	49.14	310	iPc	07 34.00	-0.2
AVF	49.24	309	iPc	07 34.40	-0.6
	0.9s	956.00nm			6.8mb
TUP	49.35	41	iPc	07 36.10	0.4
	1.2s	790.00nm			6.6mb
MZF	49.76	308	iPc	07 38.80	-0.2
	1.1s	1190.00nm			6.8mb
TCF	50.02	309	iPc	07 41.00	0.0
	0.9s	968.00nm			6.8mb
VDM	50.07	312	iP+	07 41.40	0.2
CAF	50.14	307	iPc	07 41.80	-0.2
QZH	50.37	80	iPd	07 44.00	0.1
			S	14 56.00	
			PS	15 19.50	
LSF	50.50	308	iPc	07 44.40	-0.2
	0.8s	750.00nm			6.8mb
RJF	50.52	307	iPc	07 44.80	0.0
LPO	50.77	306	iPc	07 46.90	0.2
LFF	51.08	307	iPc	07 48.80	-0.3
SSE	51.09	71	P-	07 50.00	0.7
	1.0s	8.00nm			4.7mb X
N	16s	33.40um			
			pP	08 08.00	71kmX
			sP	08 18.00	
			PcP	09 09.00	
			PP	09 58.00	
			iS	15 04.00	
			PS	15 20.00	
			sS	15 36.00	
			SS	19 04.00	
EPF	51.47	304	iPc	07 50.80	-1.3
	0.8s	235.00nm			6.2mb
EBR	51.54	302	eP	07 53.00	0.4
			eS	15 07.00	
LDF	51.61	311	iPc	07 50.50	-2.5
TET	51.63	216	iP	07 55.00	1.6
			e	15 16.00	

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MFF    51.65 309 iPc    07 50.80  -2.5
FLN    51.85 312 iPc    07 52.60  -2.2
       1.0s  4200.00nm          7.4mb
GRR    52.10 311 iPc    07 54.20  -2.5
LPF    52.23 311 iPc    07 55.10  -2.5
ALI    52.59 299 eP     07 59.00  -1.5
                 iS     15 22.00
CN2    52.64  55 iPd    08 00.00  -0.8
                 sP     08 26.00
                 PP     10 07.50
                 PcS    13 10.00
                 iS     15 22.50
ANP    52.85  78 iP-    08 06.00   3.3X
       0.8s   752.00nm          6.7mb
                 iS     15 32.00
TATO   52.88  79 eP     08 04.00   1.2
KHE    52.99 359 iPc    08 03.50   0.6
       1.3s   920.00nm          6.6mb
                 ePPP   11 08.00
                 iS     15 28.00
                 eSS    18 58.00
MTD    53.21 217 iPd    08 05.00  -0.3
                 ipP    08 32.00 113kmX
LGR    53.61 304 iPc    08 08.30   0.3
       1.3s     5.03nm          4.4mb X
                 iPP    10 07.00
                 iS     15 41.00
EKA    53.67 320 Pc     08 07.20  -1.0
       1.7s  1350.00nm          6.7mb
ESK    53.70 320 ePc    08 06.50  -1.9
       1.0s   760.00nm          6.7mb
                 e      08 32.00
KRI    54.33 219 iPd    08 13.00  -0.6
                 ipP    08 42.00 122kmX
ALM    54.37 297 iPd    08 14.50   0.9
       1.1s     7.00nm          4.6mb X
     N  30s     0.50um
     E  37s     0.90um
                 iPP    10 10.60
                 iPPP   11 14.50
                 iS     15 51.50
BAG    54.96  89 iPd-   08 18.00  -0.5
                 eS     15 57.00
ALR    55.00 296 iP     08 18.00  -0.2
                 i      08 27.50
                 i      08 43.00
GUD    55.07 302 iP     08 18.70  -0.2
TOL    55.10 301 iPc    08 20.00   1.0
       0.8s    20.00nm          5.2mb X
                 i      08 28.50
                 i      08 46.00
                 ePcP   09 24.00
                 iPP    10 24.00
                 (PPP)  11 58.00
                 iS     15 57.00
                 iPS    16 38.00
                 i(SS)  20 27.00
CRT    55.21 298 iP     08 19.80   0.0
YAK    55.44  32 iPc    08 18.70  -2.4
       1.5s  2230.00nm          7.0mb
     Z  14s    63.30um          6.9MszX
     N  14s    17.10um
     E  15s    48.00um
                 iPcP   09 20.70
                 iS     15 56.70
                 iScS   18 03.10
DKM    55.46 317 iPc    08 21.80   0.5
       1.0s   670.00nm          6.6mb
DDK    55.50 317 eP     08 21.70   0.1
       1.0s   335.00nm          6.3mb
MDJ    55.53  53 Pd     08 22.00   0.1
                 pP     08 41.00  74kmX
                 PcS    13 22 00
                 S      15 57.00
                 ScS    18 06.00
CVP    55.58  87 ePc    08 22.00  -0.6
DLE    55.63 317 iPc    08 23.00   0.5
       1.0s   560.00nm          6.5mb
KKM    55.63 102 ePd    08 23.00  -0.2
       1.0s   396.00nm          6.4mb
DMU    55.83 318 iPc    08 24.60   0.6
       1.3s  4200.00nm          7.3mb
MAL    55.94 297 iPc    08 24.00  -0.9
                 iPP    10 36.00
                 iS     16 03.00
DCN    56.07 317 iPc    08 26.50   0.8
       1.0s  1560.00nm          7.0mb
QCP    56.10  91 eP     08 28.50   2.1
TIK    56.64  20 iPc    08 27.50  -2.1
       1.1s  1510.00nm          6.9mb
     Z  16s    52.00um          6.7MszX
     N  15s    17.00um
     E  17s    49.00um
                 esP    08 54.00
                 ePcP   09 25.00
                 ePP    10 38.00
                 ePPP   11 54.00
                 eS     16 13.00
                 ePS    16 38.00
IFR    57.20 294 iP     08 34.50   0.2
VLA    57.38  55 iPc    08 34.00  -1.1
     Z  14s    41.70um          6.7MszX
     N  14s    30.50um
     E  14s    11.80um
                 isP    08 58.00
                 iS     16 28.00
                 iScS   18 12.00
SFS    57.40 297 iPc    08 35.00  -0.4
                 ePP    10 42.00
                 iS     16 30.00
                 iSS    19 12.00
                 iSSS   21 00.00
BUL    57.56 218 iPd    08 37.00   0.2
       0.8s    75.80nm          5.8mb
                 ipP    09 05.00 116kmX
                 eS     16 33.00
VAL    57.96 316 iP     08 39.20   0.2
                 iS     16 32.00
PTO    58.31 303 iPc    08 42.30   0.6
                 iS     16 40.00
KAG    58.77  68 Pd     08 45.30   0.3
                 eS     16 49.00
AVE    59.11 294 iP     08 47.00  -0.3
LIS    59.21 300 iPc    08 48.10   0.2
SHK    59.73  64 iPd    08 51.50  -0.1
BKB    59.95 109 ePc    08 56.50   3.1X
TRT    60.26 118 iPc    08 52.90  -2.6
       1.3s   321.00nm          6.3mb
PLP    60.99  92 ePc    08 58.00  -2.5
AKU    61.03 332 iPc    09 00.80   0.7
       0.9s  1410.00nm          7.1mb
                 i      11 16.10
DAG    61.10 345 iPc    08 58.70  -1.8
       0.7s   411.00nm          6.7mb
                 iS     17 14.00
CGP    61.93  95 iPd    09 05.20  -1.7
SLR    62.32 214 iPc    09 05.60  -3.8X
       1.4s   735.00nm          6.6mb
     Z  23s    27.30um          6.4MszX
                 i      09 18.60
EVA    62.57 213 iPd    09 11.30   0.2
REY    62.80 331 eP     09 12.30   0.4
                 i      11 32.60
BPI    62.81 214 iPd    09 12.70   0.0
KSR    63.13 216 iPd    09 14.80   0.0
                 i      09 23.30
DAV    63.33  96 iPd-   09 16.00  -0.1
       1.8s  7270.00nm          7.5mb
                 iS     18 00.00
MAT    63.56  61 iPd    09 16.40  -0.9
       1.8s  1110.00nm          6.7mb
     Z  20s     1.60um          5.2MszX
                 eS     17 46.00
PRY    63.71 214 iPd    09 27.00   8.4X
                 i      09 28.00
AKI    64.13  57 eP     09 22.00   1.0
                 e      18 58.00
YSS    64.14  49 iPd    09 21.10   0.1
       0.8s  2050.00nm          7.3mb
     Z  18s    19.60um          6.3Msz
     N  15s    14.00um
     E  18s    18.20um
                 epP    09 40.00  72kmX
                 ePcP   09 48.00
                 ePPP   13 17.00
                 iS     17 54.00
                 eSPP   18 20.00
                 eScS   19 08.00
                 eSS    22 05.00
SAP    64.16  53 eP     09 21.00  -0.1
                 eS     17 54.00
MKS    64.31 111 iPd    09 20 80  -1.8
       1.3s  2940.00nm          7.2mb
AOM    64.34  56 eP     09 24.00   1.6
                 eS     18 04.00
DDR    64.47  61 iPd    09 22.80  -0.6
OYM    64.68  62 eP     09 24.10  -0.6
SEK    64.79 213 iPd    09 26.00   0.4
VIR    64.96 214 iPd    09 26.50  -0.2
SWZ    65.02 216 iPc    09 25.00  -2.0
                 i      38 13.00
TSK    65.12  61 iPd    09 26.10  -1.4
MNI    65.37 102 eP     09 28.20  -1.2
       1.5s   805.00nm          6.6mb
KYS    65.45  62 eP     09 22.40  -7.3X
MIY    65.54  57 eP     09 30.00  -0.1
                 eS     18 10.00
MGD    65.76  33 iPc    09 30.50  -0.8
       1.0s   660.00nm          6.7mb
     Z  18s    47.00um          6.7Msz
     N  18s    13.00um
     E  18s    40.00um
                 epP    09 45.00  52kmX
                 esP    09 52.00
                 ePcP   10 04.00
                 ePP    11 52.00
                 iS     18 10.00
                 eSPP   18 48.00
                 ePPS   18 52.00
                 eScS   19 10.00
SEY    65.84  30 iPc    09 32.40   0.7
       1.2s  1580.00nm          7.0mb
     Z  20s    77.40um          6.9Msz
     N  20s    28.10um
     E  20s    58.00um
                 ePcP   09 58.40
                 iS     18 13.40
                 eScS   19 22.40
MAG    65.89  34 P      09 30.50  -1.6
BLF    66.15 214 iPc    09 34.00  -0.3
KIC    66.54 265 iP     09 38.10   1.1
                 e      38 09.60
KIM    66.57 215 iPd    09 36.90  -0.1
       0.9s   241.00nm          6.3mb
                 i      09 43.20
ALE    66.85 353 ePc    09 36.90  -1.1
       1.0s   849.00nm          6.8mb
HVD    67.71 214 iP     09 44.00  -0.2
       1.0s   210.00nm          6.2mb
                 i      09 52.00
TEN    67.80 291 eP     09 48.00   3.3X
                 iPcP   10 10.00
                 ePP    12 28.60
                 iS     18 42.00
                 ePPS   19 16.60
KUR    68.07  49 iPd    09 46.50   0.4
       2.0s  5400.00nm          7.3mb
     Z  20s    21.00um          6.4Msz
     N  20s    20.70um
     E  20s    20.40um
                 iPcP   10 12.00
                 iPP    12 23.00
                 iS     18 41.00
                 ePPS   19 21.00
                 iSSS   26 03.00
GRM    69.44 211 iPd    09 55.20   0.5
       1.3s   392.00nm          6.3mb
     Z  18s     8.81um          6.0Msz
KUPT   70.45 113 eP     10 01.30   0.1
AAI    70.84 105 ePd    10 01.00  -2.6
       2.0s  1660.00nm          6.7mb
SKR    71.49  42 eP     10 06.00  -1.0
       3.0s  7000.00nm          7.1mb
     Z  20s    56.10um          6.8Msz
     N  20s    46.40um
     E  20s    53.60um
                 ePcP   10 26.00
                 esP    10 31.50
                 iS     19 17.40
                 ePS    19 54.00
NAU    71.85 129 iPd    10 08.90  -0.6
       0.8s   193.00nm          6.1mb
PET    72.09  39 iPd    10 10.00  -0.4
       1.5s   640.00nm          6.4mb
     Z  24s    33.40um          6.5MszX
     N  26s    17.40um
     E  26s    45.70um
                 esP    10 36.00
                 ePP    12 56.00
                 eS     19 22.00
                 eSP    19 56.00
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18d 11h

CER	73.07	216	iPc	10	18.40	1.9	MAW	95.06	180	iPc	12	10.20	2.6	VPEM	116.64	360	ePKP	17	31.50	1.1
			i	10	28.50			1.1s	71.00nm			6.0mb		ALO	116.71	349	e(Pdif	13	47.00	1.4
TUH	73.10	217	iPd	10	17.00	0.4	ADE	95.52	127	eP	12	11.00	0.3	WKTM	116.80	0	ePKP	17	38.00	7.4X
			i	10	26.00			1.0s	84.00nm			6.2mb		LUB	117.13	345	ePKP	17	32.00	0.7
MBO	73.85	278	iP	10	23.00	1.7	STK	96.12	123	eP	12	12.00	-1.4	SPA	117.59	180	e(PKP)	17	32.00	0.8
			i	10	40.00		BNH	96.34	328	eP	12	15.80	1.4		1.2s	155.00nm				
			i	10	45.00					epP	12	24.50	27kmX		Z 20s	8.37um			6.4Msz	
			i	19	48.20		MNT	96.70	330	iPc	12	17.00	1.1	PAS	118.44	0	ePKP	17	56.00	22.3X
MBL	74.05	125	iPc	10	21.10	-1.2		1.0s	64.00nm			6.1mb			Z 20s	9.00um			6.4Msz	
ILT	74.64	20	iPc	10	25.00	-0.1	FFC	96.72	351	eP	12	16.00	0.1		N 20s	9.20um				
	1.3s	1400.00nm			6.8mb			1.0s	416.00nm			6.9mb			E 20s	5.20um				
	Z 18s	38.00um			6.7Msz		MIR	96.90	168	iP	12	17.00	0.9			epP	18	49.00		
	N 22s	32.00um						2.0s	10.00nm			5.0mb X				esP	19	06.00		
	E 22s	38.40um								epP	12	37.00	72kmX			iPPP	24	30.00		
		iPcP	10	42.00						esP	12	45.00				iSKS	28	23.00		
		isP	10	52.00						iPP	16	12.00				iSKKS	28	41.00		
		iPPP	15	00.00						iSKS	22	52.00				eSS	35	24.00		
		iS	19	54.00						i	30	18.00				eSSS	40	15.00		
		iSP	20	30.00			OTT	97.69	331	eP	12	25.00	4.6X	GLA	119.46	357	ePKP	17	38.00	2.3X
		iPPS	20	52.00				0.5s	16.00nm			5.8mb		JCT	119.56	342	ePKP	17	35.00	-0.9
		iSS	24	45.00			RSNY	97.85	330	eP	12	22.30	1.1		1.0s	90.00nm				
MBC	76.25	0	iPc	10	33.80	-0.3	PTN	98.03	331	e(P)	12	22.70	0.8		Z 22s	17.80um			6.7Msz	
	0.8s	678.00nm			6.7mb					ipP	12	32.50	31kmX			i	17	59.00		
		pP	11	01.50	108kmX		APH	98.39	330	eP	12	24.00	0.4	MSZ	119.83	128	PKP	17	36.00	0.1
MEK	76.60	130	iPc	10	35.40	-1.5				epP	12	34.00	31kmX			(pP)	17	44.00		
	0.6s	30.00nm			5.5mb X					ePP	16	19.00		RHP	121.25	127	ePKP	17	38.90	0.1
GUMO	77.53	81	e(P)	10	42.00	-0.2	RSON	98.86	345	P	12	26.50	0.9	SNZO	124.18	123	ePKP	17	44.70	0.3
		e(S)	20	15.00			EDM	99.28	357	ePc	12	28.00	0.5		1.1s	179.00nm				
BAL	78.03	134	iPc	10	43.10	-1.5		1.2s	298.00nm			6.7mb		WEL	124.22	123	PKP	17	44.00	-0.5
MTN	78.09	111	eP	10	44.00	-1.2	LHC	99.94	341	eP	12	31.50	0.9		Z 22s	17.80um			6.7Msz	
MUN	78.64	135	iPd	10	46.10	-1.9		1.2s	156.00nm			6.4mb			N 20s	7.09um				
NWAO	79.92	135	iPd	10	53.80	-1.1	TOO	101.58	126	ePdiff	12	39.00	1.0		E 20s	5.67um				
	0.7s	125.00nm			6.0mb		YOU	102.28	122	iPdiff	12	49.00	7.8X			ePP	19	24.00		
SMY	80.49	35	eP	10	59.00	1.4	CAN	103.18	123	iPdiff	12	46.50	1.3			PS	29	44.00		
ANM	80.87	19	iPc	11	00.30	0.9	ITR	103.26	267	ePdiff	12	38.20	-7.8X			e	37	16.00		
FRB	80.89	340	iPc	10	59.50	0.0				e	12	50.20				SS	38	06.00		
JAY	81.14	98	ePd	11	01.00	-0.8	PNT	103.27	1	ePdiff	12	45.00	-0.2	KRP	124.25	119	PKP	17	45.00	0.4
	1.9s	2190.00nm			6.8mb		WAM	103.45	124	ePdiff	12	52.00	5.7X			e(PP)	19	23.00		
KLG	81.24	131	iPd	11	00.90	-1.0	PGC	103.79	4	ePdiff	12	52.00	4.5X	BMG	124.52	302	ePKP	17	46.00	0.0
	1.2s	420.00nm			6.3mb		NEW	104.34	359	ePdiff	12	51.00	1.0	MNG	124.65	122	PKP	17	44.20	-1.2
WBN	81.97	125	iPd	11	05.40	-0.4				e	17	07.00		GNZ	126.30	119	PKP	17	50.00	1.4
IMA	82.57	14	eP	11	08.70	0.2	GMW	104.93	3	e(Pdif	12	55.00	2.3X	BOG	126.85	300	e(PKP)	17	52.50	1.7
INK	83.56	6	ePc	11	13.50	0.2	SOB1	105.64	268	ePKP	17	08.10	-1.8	AFI	128.21	86	e(PKP)	17	55.00	2.0
	1.1s	510.00nm			6.5mb					e	17	21.90				e	19	59.00		
		pP	11	32.00	67kmX		LON	105.77	3	ePdiff	12	58.00	1.5			ePP	20	00.00		
WWW	84.23	97	eP	11	18.50	0.9	BLA	106.40	330	e(Pdif	12	50.00	-9.5X			e	21	20.00		
WRA	84.46	116	Pc	11	18.80	0.2	LRM	106.61	356	ePdiff	13	01.40	0.9			e(SKS)	25	24.00		
	0.9s	305.00nm			6.4mb		RSSD	107.36	350	e(Pdif	13	03.00	-0.8			e	27	28.00		
TTA	84.69	16	iPd	11	19.80	0.6	COR	107.85	4	iPdiff	13	22.00	16.3X			e	31	40.00		
COL	84.78	12	iPc	11	20.00	0.4	BDW	109.40	353	e(Pdif	13	09.00	-4.0X			e	32	12.00		
	1.3s	903.00nm			6.8mb		FVM	109.71	337	e(Pdif	13	10.00	-4.1X			eSS	37	20.00		
	Z 23s	43.90um			6.8MszX			Z 20s	6.39um			6.2Msz				eSSP	38	04.00		
		eS	21	37.00			FHC	111.57	5	ePKP	17	23.00	2.7X			eSSS	42	20.00		
FBA	84.78	12	iPc	11	20.00	0 4				ePP	18	03.00		IIC	129.42	337	ePKP	17	57.40	1.9
STJ	84.88	322	eP	11	21.50	1.2	GLD	111.81	349	e(PKP)	17	38.00	17.0X	IIP	129.69	336	ePKP	17	57.30	1.3
ADK	85.51	32	eP	11	21.90	-1.5		Z 20s	20.00um			6.7Msz		TAC	129.73	337	ePKP	18	05.00	8.9X
ASPA	86.09	119	iPd	11	26.60	-0.1	WDC	111.89	4	ePKP	17	25.00	4.1X	IIT	129.77	336	ePKP	17	57.60	1.5
SVW	86.32	17	eP	11	28.40	1 0				ePP	18	05.00		III	130.78	337	ePKP	18	00.00	2.0
SCH	86.79	333	ePd	11	30.30	0.6				ePKKP	28	14.00		PSO	131.53	300	ePKP	18	01.50	1.7
	1.1s	474.00nm			6.6mb		BMN	112.17	359	ePdiff	13	33.80	8.6X	ACX	132.31	336	ePKP	18	02.70	2.1
MOM	86.82	94	eP	11	30.00	-0.5				eSKS	25	07.50		YJA	132.41	264	ePKPc	17	49.80	-11.5X
MDG	86.89	98	eP	11	28.00	-2.8				ePKKP	28	16.40		ZOBO	132.70	273	e(PKP)	17	52.50	-9.6X
PMR	87.47	14	iPc	11	33.20	0.4	MIN	112.17	3	PKP	17	29.00	7.3X			e	18	02.50		
	Z 20s	23.50um			6.6Msz		SJG	112.22	306	ePKP	17	42.00	19.8X	LPB	132.77	273	PKP	18	05.00	2.9X
TOA	87.63	13	eP	11	35.20	1.5		Z 22s	7.41um			6.2Msz			1.5s	500.00nm				
NKI	88.25	28	eP	11	36.00	-0.7	NOU	112.27	104	iPKPc	17	13.00	-9.1X			SKS	25	20.00		
LAT	88.61	98	eP	11	39.00	-0.1	RLO	112.86	340	ePdiff	13	40.00	11.8X	TCA	133.81	252	ePKPd	18	04.00	0.7
SDN	89.59	23	eP	11	43.50	0.4	ORV	112.96	3	e(Pdif	13	34.00	5.4X	ARE	135.75	275	iPKPc	18	10.00	2.4X
KDC	90.03	18	iPd	11	46.20	1.1	EUR	113.09	358	i(Pdif	13	39.00	9.5X	VCA	136.42	256	ePKP	18	05.50	-2.9X
PMG	90.03	101	eP-	11	42.00	-3.7X		0.2s	14.00nm					CFA	136.93	252	ePKPd	18	11.50	2.4X
YKA	90.04	358	eP	11	46.10	1.1	WCN	113.27	2	ePKP	17	25.80	2.0	ANT	137.19	264	ePKP	18	18.00	8.3X
YKC	90.05	358	ePc	11	45.50	0.5	TUL	113.32	341	ePdiff	13	38.40	8.1X	CEN	137.36	253	e(PKP)	18	08.00	-2.0
	1.1s	1110.00nm			7.1mb			0.8s	15.40nm					RFA	137.47	248	ePKPd	18	06.20	-3.9X
KVG	90.07	93	eP	11	45.00	-1.0		Z 22s	19.60um			6.7Msz		MDZ	137.61	251	e(PKP)	18	12.70	2.3X
PCA	90.58	11	eP	11	49.20	1.5				e	24	00.00		NNA	138.50	284	ePKP	18	13.40	0.9
LMG	90.67	100	eP	11	49.00	0.1				e	27	41.00			0.6s	73.30nm				
FCC	91.56	348	iPc	11	52.60	0.5				e	45	00.00		PT02	138.60	282	ePKP	18	13.80	1.2
	1.2s	1120.00nm			7.2mb		MNA	114.17	0	ePKP	17	26.20	0.6	FCH	138.86	250	ePKP	18	16.60	3.6X
RAB	92.03	94	iP-	11	44.70	-10.3X				ePKKP	28	10.50				e	21	05.50		
CBM	93.13	328	eP	12	01.10	1.6	JAS	114.61	2	ePdiff	13	41.50	5.5X	PT06	138.91	281	ePKP	18	14.30	1.2
CTA	94.24	110	iPd-	12	04.40	-0.6	MHC	115.16	3	ePKP	17	36.00	8.5X	BACH	139.03	250	iPKP	18	16.50	3.5X
	1.5s	275.00nm			6.5mb					ePP	18	25.00		PEL	139.17	250	iPKPd	18	15.30	2.1
		iSKS	22	28.00			RMU	115.19	354	e(Pdif	13	51.20	12.4X	CHCH	139.21	249	ePKP	18	12.50	-0.8
CTAO	94.24	110	eP	12	04.60	-0.4	SLD	115.45	3	ePKP	17	30.00	2.1	TACH	139.42	250	iPKP	18	12.50	-1.1
		pP	12	13.00	26kmX		FRI	115.58	2	ePKP	17	36.50	8.4X	AFR	149.00	78	iPKP	18	33.00	2.8X
SIT	94.26	9	eP	12	06.00	1.4	PRI	116.40	2	ePKP	17	42.00	12.1X		1.2s	160.00nm				
MIM	94.81	328	e(P)	12	07.20	-0.1				ePP	18	37.00				i	18	37.80		

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PPT   149.19   78 iPKP   18 34.00    3.5X
       1.2s   185.00nm
                 i       18 38.30
PAE   149.22   78 iPKP   18 34.00    3.5X
       1.2s   145.00nm
                 i       18 38.20
PMO   149.46   72 iPKP   18 33.30    2.4X
                 i       18 38.40
TPT   149.68   71 iPKP   18 34.20    3.0X
       1.2s    90.00nm
                 i       18 38.80
VAH   149.80   72 iPKP   18 34.20    2.8X
                 i       18 38.80
RUV   149.98   72 iPKP   18 35.00    3.3X
       1.2s    30.00nm
                 i       18 39.40
     S.D. = 1.1  on 420 of 487 obs.

&  MAY  02, 1983  23h 42m 37.76s
   36.219 N          120.317 W
   DEPTH =  10.2km  (geophysicist)
   6.3mb (108 obs.)  6.5Msz ( 25 obs.)
 CENTRAL CALIFORNIA                ( 39)
      <GS>. Forty-five people injured
      and estimated 31 million dollars
      damage in the Coolingo oreo.
      Maximum intensity VIII. Some
      damage ot Avenal and other
      surrounding communities. Felt
      from Los Angeles to Sacramento
      and from San Francisco to Reno.

PARM    0.04 326 iPc    42 40.83    1.0
PCRM    0.16 217 iPd    42 42.23    0.8
PRCM    0.25 279 iPd    42 44.01    0.9
CTM     0.29 183 iPd    42 44.98    1.1
PRI     0.29 255 iPd    42 45.40    1.5
PKF     0.35 193 iPd    42 46.19    1.3
PTV     0.35 251 iPd    42 46.05    1.1
PHGM    0.37 202 iPd    42 46.65    1.3
MOP     0.39 270 iPd    42 46.87    1.2
GHC     0.39 184 iPd    42 46.70    1.0
PHAM    0.39 190 iPd    42 46.97    1.2
PIVM    0.43 224 iP     42 47.82    1.3
WKR     0.43 201 iPd    42 47.85    1.2
HVC     0.43 291 iPd    42 47.45    0.8
PMRM    0.44 171 iPc    42 47.81    1.1
PAGM    0.49 174 iPc    42 48.55    0.8
PMCM    0.50 185 iPc    42 48.81    1.0
PSAM    0.50 247 iPd    42 48.59    0.7
BTW     0.50 281 ePc    42 48.57    0.6
PTRM    0.57 171 iPc    42 49.91    0.6
BMSM    0.58 319 iPc    42 50.32    0.7
LRC     0.59 273 iPc    42 49.98    0.3
LRV     0.60 290 iPc    42 50.51    0.6
PSHM    0.63 187 iPc    42 51.15    0.7
LLA     0.64 308 iPc    42 51.00    0.4
PANM    0.65 228 iPc    42 51.44    0.7
SBT     0.68 296 iPc    42 51.72    0.5
PJLM    0.69 259 iPc    42 52.00    0.6
BPIM    0.74 292 iPc    42 52.46    0.2
PBYM    0.74 237 iPc    42 52.86    0.6
EMT     0.77 305 iPc    42 53.51    0.8
SHG     0.78 285 iPc    42 53.14    0.2
BVL     0.79 297 iPc    42 53.58    0.5
PMGM    0.80 192 iPc    42 53.66    0.3
EKH     0.82 303 iPc    42 54.22    0.6
BSCM    0.85 299 iPc    42 54.94    0.8
PRS     0.86 278 iPc    42 54.80    0.5
PCGM    0.86 204 iPc    42 55.02    0.7
PBRM    0.87 220 iPc    42 55.35    0.8
BLRM    0.89 300 iPc    42 55.59    0.8
PAPM    0.90 250 iPc    42 55.59    0.5
BJOM    0.90 297 iPc    42 55.12    0.1
FRI     0.91  32 iPd    42 54.50   -0.7
JHC     0.93 291 iPc    42 55.71    0.3
BCGM    0.96 301 iPc    42 56.73    0.7
HJSM    0.99 307 iPc    42 56.77    0.3
BHSM    1.00 278 iPc    42 57.07    0.4
BVYM    1.03 301 iPc    42 57.49    0.2
LTR     1.04 310 iPc    42 57.57    0.2
PSEM    1.04 201 iPc    42 57.44    0.1
SAO     1.06 301 iPc    42 57.80    0.1
HSLM    1.06 324 iPc    42 56.91   -0.8
BSRM    1.07 295 iPc    42 57.91    0.1
PKH     1.08 306 iPc    42 59.00    0.9
PNC     1.12 288 iPc    42 58.66   -0.1

HSFM    1.12 302 iPc    42 59.04    0.3
SLD     1.12 320 iP     42 58.70   -0.1
HKRM    1.12 308 iPc    42 59.22    0.4
PCL     1.14 317 iPc    42 59.06    0.0
HFHM    1.14 306 iPc    42 59.50    0.4
SFL     1.16 311 iPc    42 59.43    0.0
HJGM    1.17 300 iPc    42 59.10   -0.4
BPFM    1.18 271 iPc    42 59.23   -0.5
HBTM    1.18 303 ePc    42 59.68    0.0
OCR     1.19 306 iPc    42 59.86    0.0
HCPM    1.20 325 eP     42 59.40   -0.7
ANZ     1.22 303 iPc    42 59.94   -0.5
DIL     1.23 300 iPc    42 59.94   -0.7
CDC     1.24 311 iPc    43 00.46   -0.3
CSR     1.26 306 iPc    43 00.54   -0.6
GHS     1.26 314 iPc    43 00.82   -0.4
CBC     1.29 304 iPc    43 00.88   -0.8
HSPM    1.31 313 iPc    43 01.31   -0.8
PKC     1.33 304 iPc    43 01.54   -0.7
HGWM    1.34 307 iPc    43 01.37   -1.0
MTR     1.35 287 iPc    43 01.75   -0.8
CMPM    1.39 325 ePc    43 02.21   -1.0
JRRM    1.41 307 iPc    43 02.41   -1.0
ADR     1.41 312 iPc    43 02.68   -0.8
CBO     1.42 309 iPc    43 02.66   -0.9
EUC     1.46 305 iPc    43 03.23   -0.9
ARN     1.49 319 iPc    43 03.93   -0.7
COE     1.50 314 iPc    43 04.21   -0.5
MHC     1.54 317 iPc    43 04.70   -0.8
GCC     1.58 301 iPc    43 04.80   -0.9
WKTM    1.58 105 iPd    43 05.40   -0.5
ISA     1.60 110 eP     43 05.80   -0.3
                 eS     44 03.90
SYP     1.71 171 iP     43 07.70   -0.2
JAS     1.73 357 ePc    43 07.50   -0.5
CWC     1.82  82 iP     43 09.30   -0.2
SBC     1.84 164 iP     43 09.70    0.1
TIN     1.88  63 iP     43 10.60    0.3
VPEM    2.04  97 iPd    43 12.70    0.0
BKS     2.26 318 ePc    43 14.40   -1.3
                 eS     43 42.00
NWRM    3.03 318 ePc    43 25.00   -1.6
SDW     3.10 120 iPc    43 25.90   -1.8
RMT     4.13 334 iPd    43 41.60   -0.6
WDC     4.69 339 ePd    43 48.40   -1.8
LGBM    5.32 345 ePd    44 03.00    3.6
FHC     5.40 329 ePd    44 00.60    0.3
GLA     5.52 123 iPc    43 58.50   -3.5
BKU     6.17  66 ePd    44 10.50   -0.9
MSU     6.88  68 eP     44 20.50   -0.8
DUG     7.12  54 eP     44 24.80    0.2
MOUT    8.25  51 ePn    44 41.80    1.2
COR     8.66 346 iPc    44 48.00    2.1
BEI     8.86  46 ePn    44 50.70    1.7
VGB     9.29 358 eP     44 57.50    2.8
PNO     9.46   7 ePnc   44 59.30    2.4
TMI     9.58  40 ePn    45 00.60    1.7
SHW    10.07 352 e(P)   45 08.50    3.0
IMW    10.50  40 ePd    45 13.50    1.9
BDW    10.57  48 ePd    45 13.30    0.8
LON    10.58 354 ePc    45 14.00    1.5
LRM    11.28  29 ePd    45 23.00    0.9
ALQ    11.36  92 ePc    45 24.00    0.7
ANMO   11.36  92 eP     45 25.00    1.7
GMW    11.47 352 eP     45 23.30   -1.2
NEW    12.27  10 eP     45 36.00    0.7
                 e      45 40.50
                 e      49 07.00
GOL    12.30  69 ePd-   45 37.50    1.5
GLD    12.42  69 eP     45 39.50    1.9
LHD    12.53  15 iPc    45 41.40    2.5
                 iS     49 18.70
MCW    12.59 352 eP     45 41.40    1.8
PGC    12.64 350 eP     45 41.60    1.5
LDM    12.77  15 iPc    45 44.70    2.7
                 eS     49 12.70
PNT    13.10   2 eP     45 48.00    1.6
RXF    13.20  15 iPc    45 49.40    1.6
                 eS     49 23.30
RSSD   14.72  53 ePd    46 07.40   -0.6
PHC    15.36 343 eP     46 18.50    2.5
       1.4s   219.00nm          5 3mb
SES    15.68  22 eP     46 21.00    0.8
ACO    17.04  82 eP     46 38 50    0.9
       1.0s  1220.00nm          6.0mb
EDM    17.69  14 eP     46 44.50   -1.2
RRO    17.82  86 eP     46 50.00    2.6

       1.5s  2580.00nm          6.1mb
ATO    17.96  85 eP     46 49.00   -0.2
JCT    18.06 103 iPd    46 50.20   -0.2
OCO    18.52  85 iPc    46 57.90    1.8
PCO    18.77  82 eP     46 59.80    0.7
SIO    19.43  84 iPc    47 05.70   -1.4
ATX    19.66 101 iPc    47 08.00   -1.7
                 S      50 56.00
TUL    19.82  84 iPc+   47 09.90   -1.5
       0.8s   884.00nm          6.1mb
     Z 20s     70.00um          6.5Msz
                 eS     50 52.00
GBO    20.32  84 iPc    47 15.20   -1.4
RLO    20.40  83 iPc    47 16.00   -1.5
BHO    20.84  88 iP     47 21.00   -1.0
HKT    21.42 100 iPc    47 27.40   -0.5
FFC    22.41  29 eP     47 36.00   -1.7
SIT    23.15 339 eP     47 46.20    1.4
OLY    23.36  83 eP     47 46.50   -0.6
POW    23.48  81 eP     47 47.50   -0.8
FVM    23.86  77 eP     47 51.00   -1.0
RSON   24.04  44 eP     47 51.90   -1.7
LST    24.58  80 ePc    47 59.80    0.8
IIC    24.70 126 iP     48 00.00   -0.6
ELC    24.88  78 eP     48 00.70   -1.1
IIM    25.07 127 iP     48 02.20   -1.9
IIP    25.23 126 iP     48 07.00    1.4
LHC    25.81  52 eP     48 08.50   -2.0
       0.9s   561.00nm          6.3mb
IIT    25.86 126 iP     48 13.00    1.5
PWLA   26.19  83 eP     48 12.50   -1.7
RSCP   28.05  81 eP     48 29.30   -1.9
VHO    28.18 126 iP     48 36.00    3.4
AAM    28.87  67 ePd    48 37.60   -0.8
TKL    29.48  80 eP     48 42.30   -1.8
KDC    30.28 326 eP     48 53.20    2.4
PME    31.17 334 eP     49 00.50    1.8
       1.0s   200.00nm          6.0mb
     Z 20s     50.00um          6.2Msz
PMR    31.19 334 P      49 02.00    3.2
NAV    31.53  76 eP     49 00.00   -2.1
MRG    31.83  71 iPc    49 03.80   -1.0
                 eScS   59 18.00
BLA    31.84  76 iP+    49 03.00   -1.9
       1.0s   175.00nm          5.9mb
                 iPP    50 10.00
                 iS     54 12.00
COM    31.98 121 iP     49 13.00    6.6
OSB    32.34  83 eP     49 07.50   -1.7
DHN    32.89  65 eP     49 10.60   -3.4
INK    32.97 351 ePc    49 15.00    0.7
       1.3s   929.00nm          6.6mb
ZIN    33.01  83 eP     49 14.00   -1.1
COL    33.06 339 iP     49 14.60   -0.6
       1.4s   357.00nm          6.1mb
     Z 21s     78.80um          6.4Msz
                 eS     54 38.00
CVL    33.23  74 eP     49 15.50   -1.4
SVW    33.41 329 eP     49 19.00    0.7
NA12   33.68  74 eP     49 19.00   -1.9
INY    34.17  66 eP     49 23.90   -1.2
GCG    34.24 121 eP     49 27.50    1.4
                 eS     54 59.00
TTA    34.56 332 eP     49 29.00    0.7
       1.0s   180.00nm          5.9mb
OTT    34.60  61 eP     49 27.00   -1.7
       1.0s    89.00nm          5.6mb
HIL    34.60 251 P      49 31.00    2.0
SOR    34.90 102 iP     49 30.00   -1.6
       1.2s   140.00nm          5.7mb
PTN    35.14  62 eP     49 31.40   -2.0
HPO    35.33 251 e(P)   49 36.50    1.3
KKH    35.34 252 P      49 37.00    1.7
LPS    35.39 120 iPc    49 37.00    1.1
                 ePP    51 04.00
                 eS     55 16.00
RSNY   35.47  62 ePc    49 34.90   -1.2
APH    35.53  63 iPc    49 34.50   -2.2
IMA    35.65 337 eP     49 38.20    0.6
       1.0s   285.00nm          6.1mb
PRIN   35.73  69 eP     49 37.00   -1.4
GPD    35.83  68 ePc    49 38.00   -1.3
KIP    35.92 256 eP     49 42.50    2.3
     Z 20s     20.60um          5.9Msz
HON    35.97 256 ePc    49 43.20    2.6
MNT    36.07  60 iPd    49 39.40   -1.8
       1.0s    69.00nm          5.5mb
```

02d 23h

LNX	36.55	66	eP	49	44.00	-1.3		1.4s	1110.00nm		6.8mb		0.7s	315.00nm		6.5mb							
DVT	37.12	61	eP	49	47.90	-2.2	PAE	60.32	212	iP	52	50.80	1.8	EBH	73.47	31	ePc	54	11.80	-0.1			
MD5	37.24	67	eP	49	50.30	-0.8		1.4s	1640.00nm		7.0mb				1.0s	634.00nm			6.6mb				
NKI	37.60	312	e(P)	49	55.00	1.1	RKT	60.62	196	iP	52	52.20	1.2	EDU	73.48	31	eP	54	11.60	-0.3			
BNH	37.80	62	eP	49	53.40	-2.4		1.3s	690.00nm		6.6mb				0.7s	93.00nm			6.0mb				
WES	37.98	65	eP	49	56.70	-0.6	REY	61.52	30	eP	52	57.30	0.6	DMU	73.50	35	iPc	54	11.70	-0.4			
ANM	38.99	331	eP	50	06.50	1.0	TIK	62.17	340	iPc	53	00.00	-1.0		0.8s	630.00nm			6.7mb				
HNME	39.97	59	eP	50	12.00	-1.8		1.1s	370.00nm		6.5mb					ePcP	57	34.60					
MBC	40.12	0	iPc	50	16.20	1.5			eS	01	27.00			OFUJ	73.64	307	P	54	12.60	-0.6			
	1.2s	650.00nm			6.2mb				eScS	02	42.00			AOMJ	73.66	308	P	54	12.00	-1.2			
PQ0	40.44	61	eP	50	16.50	-1.3			ePcP	53	44.00			DCN	73.68	35	iPc	54	12.80	-0.3			
		e		52	19.00				ePP	55	18.00				1.1s	780.00nm			6.7mb				
EMM	40.46	61	eP	50	17.40	-0.5	AKU	62.31	27	iP+	53	02.00	0.0			ePcP	57	37.00					
SCH	40.72	46	ePd	50	18.30	-1.7		1.3s	208.00nm		6.2mb			SOD	73.73	13	iP	54	12.30	-0.9			
	1.0s	271.00nm			5.9mb				e	56	24.90					i	54	17.20					
FRB	41.46	32	iPc	50	26.00	0.2	NNA	63.08	131	eP	53	06.50	-1.2	EAU	73.76	32	iPc	54	13.40	-0.2			
	0.8s	371.00nm			6.2mb			0.6s	43.30nm		5.8mb				1.0s	284.00nm			6.3mb				
SJS	41.99	119	eP	50	32.00	1.1	KHE	63.41	0	iPc	53	09.00	-0.1	EDI	73.82	31	ePc	54	13.80	-0.1			
ADK	42.33	310	ePd	50	34.20	1.1		1.3s	780.00nm		6.7mb				0.8s	366.00nm			6.5mb				
ILT	45.17	333	eP	50	57.00	1.0	Z	14s	80.00um		7.0MszX			EBL	73.98	32	ePc	54	14.80	0.0			
Z	18s	24.00um			6.2Msz		N	14s	65.00um						0.9s	350.00nm			6.4mb				
N	18s	22.00um					E	14s	20.00um					DLE	74.05	35	iPc	54	15.00	-0.3			
E	14s	22.00um							iS	01	41.00				1.2s	1040.00nm			6.7mb				
		eSS	00	56.00					eSPP	02	10.00					ePcP	57	37.60					
		isP	51	15.60					eSSS	08	42.00			ESY	74.06	31	ePc	54	15.20	-0.1			
		ePP	52	48.00					ePP	57	08.00				0.8s	146.00nm			6.1mb				
		iS	57	39.00			PT06	64.82	132	eP	53	16.50	-2.6	ESK	74.22	32	iPc	54	15.70	-0.5			
SMY	47.91	312	eP	51	19.20	1.4	KUR	66.54	310	iP	53	29.00	-0.8		0.9s	167.00nm			6.1mb				
Z	20s	15.00um			6.0Msz			7.0s	6000.00nm		6.9mb	X				e	57	41.20					
GDH	48.45	26	iPd	51	22.50	0.8			iS	02	22.00			EKA	74.22	32	Pc	54	15.80	-0.5			
	1.0s	60.00nm			5.6mb				eSS	06	42.00				1.1s	118.00nm			5.8mb				
		i	53	20.00					ePcP	53	53.00			ECK	74.34	32	ePc	54	16.40	-0.5			
		iS	58	25.00					ePP	56	02.00				0.9s	127.00nm			5.9mb				
SJG	50.80	96	iP	51	38.90	-1.6	YAK	67.14	331	iPc	53	32.70	-0.7			e	57	41.50					
	1.2s	164.00nm			5.8mb			1.1s	590.00nm		6.7mb			ECB	74.53	36	iPc	54	17.90	-0.2			
Z	22s	34.10um			6.3Msz		Z	15s	17.30um		6.4MszX			ETA	74.59	35	iPc	54	18.50	0.1			
		eS	58	55.00					iS	02	28.30				1.2s	1330.00nm			6.8mb				
LGN	51.33	108	eP	51	34.80	-9.6			iPS	02	52.70			APA	74.64	10	iPc	54	18.60	0.1			
CHN	51.45	116	iP	51	44.00	-1.5			isP	53	51.30				1.4s	210.00nm			6.0mb				
BMG	51.92	112	iP	51	47.00	-2.0			iPP	56	01.70			Z	15s	35.00um			6.8MszX				
UAV	52.39	109	eP	51	53.80	1.1			iPPP	57	35.70			N	15s	12.00um							
SDV	52.61	108	eP	51	53.40	-0.9	RAR	68.22	220	P	53	40.00	-0.6	E	15s	14.00um							
TOV	52.69	107	eP	51	55.00	0.2			S	02	48.00					iS	03	52.00					
BOG	52.81	115	iP	51	55.00	-1.0	YSS	68.78	313	iPd	53	43.30	-0.6			iSKS	04	16.00					
		iS	59	15.00				1.1s	380.00nm		6.5mb					eSS	08	39.00					
PAG	55.52	95	eP	52	13.00	-2.6	Z	18s	7.50um		6.0Msz					iPcP	54	39.00					
FDF	56.65	96	eP	52	20.00	-3.7	N	18s	6.00um							iPP	57	10.00					
PET	56.98	315	eP	52	25.00	-0.5	E	18s	11.20um							iPPP	58	55.00					
	1.0s	370.00nm			6.4mb				iS	02	49.00			ECP	74.85	36	iPc	54	19.70	-0.2			
Z	20s	8.30um			5.8Msz				ePS	03	14.00				1.1s	1070.00nm			6.8mb				
N	20s	5.62um							eScS	03	44.00			YAMJ	75.21	307	P	54	22.20	-0.1			
E	20s	11.20um							eSS	07	14.00			NB2	75.35	22	P	54	22.60	-0.1			
		eSS	04	12.00					ePcP	54	03.00				0.9s	84.60nm			5.8mb				
		ePP	54	40.00					ePP	56	24.00			BOD	75.76	333	iPc	54	25.20	0.2			
TPT	57.09	212	iP	52	28.50	1.9	NEM	68.90	309	P	53	44.00	-0.6		1.1s	460.00nm			6.5mb				
	1.4s	1140.00nm			6.7mb		KUSJ	69.56	309	P	53	49.00	0.3	ANT	75.98	134	eP+	54	27.20	0.5			
RUV	57.17	212	iP	52	29.10	1.9	AFI	69.59	234	eP	53	50.00	0.7			iS	04	13.20					
	1.4s	1960.00nm			6.9mb				S	03	12.00			KAKJ	76.24	305	P	54	27.00	-1.1			
PMO	57.23	212	iP	52	29.50	1.9			e	06	06.00			TSK	76.28	305	iPd	54	27.30	-1.1			
	1.4s	1140.00nm			6.7mb				eSS	07	28.00			NIIJ	76.42	306	P	54	29.00	-0.1			
SEY	57.28	327	iPc	52	27.20	-0.3	ASAJ	70.32	311	P	53	50.00	-3.4	AIK	76.46	307	P	54	29.00	-0.3			
	1.3s	650.00nm			6.5mb		HOOJ	70.83	309	P	53	55.00	-1.5	KJF	76.78	14	iPc+	54	30.40	-0.2			
		iS	00	22.70			KEV	71.67	11	iP	54	00.00	-1.0		0.9s	181.00nm			6.2mb				
		isP	52	43.00				1.0s	162.00nm		6.1mb					eS	04	18.00					
		ePcP	53	22.70					eS	03	20.00					eScS	04	52.00					
		ePPP	55	59.70					eScS	04	08.00					eSS	08	56.00					
VAH	57.32	212	iP	52	30.20	2.0			eSS	08	04.00					eSSS	12	36.00					
	1.4s	1710.00nm			6.9mb				eSSS	11	08.00					ePP	57	26.00					
TRN	58.77	100	eP	52	38.50	0.0			ePP	56	44.00			TOK	76.81	305	eP	54	34.00	2.7			
	1.3s	162.00nm			6.0mb				ePPP	58	28.00					e	54	46.00					
MGD	58.87	324	iPc	52	38.60	0.0	SAP	71.69	310	eP	54	03.00	1.4	HFS	76.82	22	iP	54	30.60	-0.3			
	1.0s	570.00nm			6.6mb				eS	03	25.00				0.8s	104.00nm			6.0mb				
Z	14s	20.00um			6.4MszX		LPB	72.01	127	Pc+	54	04.00	-0.3	Z	18s	39.00um			6.8Msz				
N	16s	15.00um						1.0s	100.00nm		5.9mb			KYS	76.83	304	eP	54	33.40	1.9			
E	16s	23.00um							S	03	24.00			DDR	77.01	305	eP	54	32.20	-0.3			
		iS	00	46.00			MRRJ	72.20	310	P	54	04.00	-0.6	CHJJ	77.11	305	P	54	32.60	-0.4			
		eScS	02	24.00			NRI	72.63	350	iPc	54	05.40	-1.4	VLA	77.31	314	iPc	54	34.00	0.1			
		esP	52	51.00				1.8s	270.00nm		6.0mb				8.0s	******nm			7.0mb	X			
		ePcP	53	22.00			Z	16s	26.00um		6.6MszX			Z	18s	10.70um			6.2Msz				
		ePPP	56	13.00			N	16s	16.00um					N	18s	12.00um							
GUV	59.12	104	iPc	52	39.00	-2.0	E	20s	16.00um					E	18s	6.00um							
SKR	59.25	313	iPc	52	41.00	-0.4			iS	03	29.00					iS	04	25.00					
	1.0s	240.00nm			6.3mb				ePcP	54	23.00					ePS	05	03.00					
		iS	00	51.60			VAL	73.13	37	iP	54	10.10	0.2			iPPS	05	27.00					
PPT	60.23	212	iP	52	50.40	2.0	EAB	73.16	32	iPc	54	09.60	-0.5			iSS	09	29.00					
	1.4s	1420.00nm			6.9mb			0.8s	257.00nm		6.4mb					ePP	57	29.00					
AFR	60.29	213	iP	52	50.70	1.9	ELO	73.24	31	iPc	54	10.40	-0.2	OYM	77.31	305	eP	54	34.10	-0.1			

MAT	77.34	306	iPc	54 34.30	0.0
	1.1s		430.00nm		6.5mb
			eS	04 23.00	
MTMJ	77.58	306	P	54 35.40	-0.3
MDJ	77.68	317	Pc	54 36.00	0.0
			iS	04 31.00	
			PP	57 37.00	
KTJ	77.69	304	P	54 35.00	-1.2
SUF	77.79	15	iP	54 36.60	0.3
	0.9s		178.00nm		6.2mb
YJA	77.81	129	eP	54 37.60	0.1
IIDJ	78.15	305	P	54 38.70	-0.1
UPP	78.18	20	iPc	54 38.30	-0.1
			iS	04 29.00	
			i	54 39.40	
			iPP	57 37.00	
TKY	78.19	306	P	54 39.00	0.0
MUD	78.24	26	iP	54 40.50	1.7
	1.0s		84.00nm		5.8mb
VUN	79.06	238	iPc	54 44.80	0.9
TSRJ	79.39	306	P	54 45.00	-0.5
NUR	79.42	17	iP	54 45.80	0.6
	0.9s		226.00nm		6.2mb
			eS	04 40.00	
			ePPS	05 28.00	
			eSS	09 44.00	
			eSSS	13 20.00	
			ePP	57 44.00	
SLA	79.69	131	ePd	54 46.00	-1.4
FLN	79.93	36	iPc	54 48.70	0.5
COP	79.98	25	iPc	54 49.20	0.9
	0.8s		101.00nm		5.8mb
Z	18s		46.70um		6.9Msz
			iS	04 57.00	
GRR	80.01	36	iPc	54 49.40	0.8
DBN	80.01	31	iP+	54 50.00	1.5
Z	22s		26.70um		6.5Msz
			iS	04 59.00	
			ePS	05 44.00	
			iSS	10 00.00	
			iSSS	14 22.00	
			iPP	57 53.00	
WIT	80.08	29	eP	54 51.50	2.6
	1.0s		406.00nm		6.4mb
OWA	80.13	305	P	54 50.00	0.5
LPF	80.17	36	iPc	54 49.90	0.4
LDF	80.22	36	iPc	54 50.20	0.5
WKYJ	80.43	305	P	54 51.20	0.0
CN2	80.48	318	iPc	54 50.20	-1.0
			iS	04 59.00	
			eSS	10 17.00	
			pP	54 55.00	15kmX
			sP	54 57.00	
			ePP	57 59.00	
UCC	80.64	32	Pd+	54 52.60	0.7
			S	05 02.00	
			PP	58 00.00	
			PPP	59 55.00	
TLL	80.76	138	iPd	54 52.60	-0.5
WTS	80.76	30	iPc	54 53.60	1.1
	1.3s		230.00nm		6.0mb
PTO	80.82	45	eP	54 53.90	0.9
			iS	05 00.00	
HAM	80.84	28	iPc	54 54.90	2.0
			iS	05 09.60	
YONJ	81.23	307	P	54 55.30	0.0
DOU	81.26	32	Pc+	54 55.90	0.7
			S	05 05.00	
			i	54 57.40	
			PP	58 07.00	
ENN	81.32	31	iPc	54 56.50	1.0
	1.0s		212.00nm		6.1mb
			ePP	57 59.50	
PUL	81.33	15	iPc	54 56.00	0.7
	1.4s		420.00nm		6.3mb
Z	16s		33.00um		6.8MszX
N	16s		30.00um		
E	16s		10.00um		
			iS	05 07.00	
			ePS	05 56.00	
			eSS	10 20.00	
			ePP	58 04.00	
			ePPP	59 52.00	
MFF	81.61	37	iPc	54 57.60	0.5
BNS	81.69	30	eP	54 58.50	1.1
	1.3s		0.32nm		3.2mb X
			iS	05 17.20	

			i	55 58.20	
			iPP	58 04.80	
LIS	82.07	47	iPc	55 00.10	0.5
			eS	05 16.50	
SHK	82.14	307	ePc	55 00.20	0.1
CYA	82.27	134	ePc	54 59.50	-1.2
BGG	82.34	31	iP	55 01.00	0.2
LSF	82.68	36	iPc	55 03.10	0.4
TNS	82.78	30	ePc	55 03.70	0.5
			eS	05 25.50	
			ePP	58 19.20	
JACH	82.83	140	iPc	55 03.60	0.0
BRL	82.87	27	eP	55 05.50	2.1
BRN	82.88	27	iPc	55 05.20	1.7
			eS	05 28.00	
			ePP	58 15.00	
CEN	82.96	138	eP	55 05.00	0.7
TCF	82.97	36	iPc	55 04.80	0.6
	1.4s		306.00nm		6.3mb
SSF	83.02	35	iPc	55 05.10	0.7
LOR	83.03	35	iPc	55 05.40	0.9
	1.4s		429.00nm		6.4mb
BGF	83.08	36	iPc	55 05.40	0.7
AVF	83.14	35	iPc	55 05.40	0.4
PEL	83.15	140	iPc+	55 05.00	-0.2
	1.7s		577.00nm		6.5mb
MZF	83.20	36	iPc	55 05.90	0.5
LFF	83.23	38	iPc	55 06.40	0.9
CFA	83.27	137	ePd	55 06.20	0.4
LGR	83.31	41	iPc	55 07.50	1.5
			iS	05 26.50	
			iPP	58 21.50	
RJF	83.35	37	iPc	55 06.80	0.6
GWF	83.40	32	iPc	55 06.90	0.5
SHNJ	83.41	308	P	55 06.90	0.3
LNV	83.41	141	iPc	55 08.50	2.1
BACH	83.41	140	eP	55 05.00	-1.5
TACH	83.42	140	iPd	55 06.50	0.0
SMF	83.48	35	iPc	55 07.00	0.2
FCH	83.50	140	iPc	55 07.50	0.2
HAU	83.59	33	iPc	55 08.00	0.6
	1.2s		315.00nm		6.4mb
LPO	83.64	38	iPc	55 08.60	1.0
IRK	83.66	334	eP	55 07.40	-0.2
	2.2s		500.00nm		6.3mb
Z	20s		26.80um		6.6Msz
N	22s		17.70um		
E	19s		10.30um		
			eS	05 26.00	
			ePS	06 24.00	
			eSPP	06 44.00	
			esP	55 23.50	
CDF	83.68	32	iPc	55 08.60	0.7
CLL	83.70	27	iPc	55 08.40	0.6
	1.3s		310.00nm		6.4mb
			eSKS	05 30.00	
			PKKP	13 25.00	
			i	55 21.00	
MOX	83.71	28	iPc+	55 08.50	0.6
	1.6s		494.00nm		6.5mb
Z	15s		46.00um		7.0MszX
N	18s		22.00um		
E	18s		46.00um		
			iS	05 30.00	
			iPS	06 28.00	
			eSS	11 25.00	
			e(PKKP	13 27.00	
			e	21 26.00	
			iPP	58 20.00	
CHCH	83.78	140	iPd	55 09.50	1.1
ECH	83.78	32	iPc	55 08.70	0.4
BUH	83.89	31	ePc	55 09.70	0.8
CAF	83.89	37	iPc	55 09.60	0.6
MDZ	83.91	139	i(P)	54 55.00	-14.1
BSF	83.92	33	iPc	55 09.60	0.5
TEN	83.93	59	iP	55 11.80	2.5
			eSKS	05 20.60	
			eS	05 25.40	
			ePS	06 11.10	
			iPcP	58 26.40	
BAF	84.00	33	iPc	55 10.00	0.5
HOF	84.07	29	iPc	55 10.40	0.6
	1.5s		600.00nm		6.6mb
			eS	05 34.00	
STU	84.22	31	iPc+	55 11.00	0.5
	1.0s		140.00nm		6.1mb
TOL	84.24	44	iP+	55 11.00	0.2

	0.8s		16.00nm		5.3mb
			iSKS	05 31.00	
			iS	05 37.00	
			iPS	06 28.00	
			iSS	10 22.00	
			eSSS	14 40.00	
			i	55 19.00	
			iPP	58 25.00	
GRFO	84.31	29	ePc	55 12.00	1.1
GRF	84.31	29	iPc	55 12.40	1.4
	1.4s		927.00nm		6.8mb
Z	18s		45.00um		6.9Msz
			eS	05 36.30	
			ePP	58 28.50	
EPF	84.40	39	iPc	55 12.30	0.7
BRG	84.40	27	iPc	55 12.30	0.9
	1.1s		350.00nm		6.5mb
			eSKS	05 37.00	
			P'P'	21 25.00	
			i	55 13.50	
			i	55 27.10	
			ePP	58 36.00	
KUMJ	84.60	307	P	55 11.80	-0.9
SLE	84.70	32	eP+	55 13.30	0.3
ZUL	84.88	32	eP+	55 14.40	0.5
MOY	85.29	336	iPc	55 17.40	1.7
	1.5s		460.00nm		6.5mb
SFS	85.31	48	iPc	55 18.00	1.9
			iS	05 44.00	
			ePS	06 12.00	
			eSS	10 55.00	
			ePP	58 36.00	
PRU	85.35	27	iPc	55 17.00	0.9
	1.2s		231.00nm		6.3mb
Z	14s		33.60um		6.9MszX
N	20s		16.80um		
E	20s		33.00um		
			iS	05 42.00	
			iPS	06 40.00	
			e	55 30.20	
			PP	58 36.00	
WET	85.40	29	eP	55 17.30	0.9
Z	16s		43.70um		6.9MszX
			e	58 38.00	
KAGJ	85.42	306	P	55 16.00	-0.8
BAO	85.47	113	P	55 16.50	-0.8
DIX	85.53	34	eP+	55 18.20	0.8
FUR	85.55	30	eP	55 18.30	1.1
	1.5s		529.00nm		6.5mb
Z	19s		54.00um		7.0Msz
RFA	85.57	140	ePc	55 17.00	-0.4
ZAK	85.58	334	iPc	55 18.00	0.8
	1.1s		300.00nm		6.4mb
			iS	05 47.00	
			ePS	06 48.00	
LLS	85.62	32	eP+	55 18.60	0.8
KHC	85.68	28	P	55 19.00	1.1
Z	18s		39.50um		6.8Msz
N	18s		31.30um		
E	18s		28.40um		
			S	05 44.00	
			PS	06 50.00	
			e	55 34.50	
			PP	58 39.60	
MMK	85.80	33	eP+	55 20.00	1.2
GUA	85.90	284	eP+	55 18.50	-0.9
	1.3s		600.00nm		6.6mb
GUMO	85.91	284	eP	55 19.50	0.1
			eS	05 53.50	
PJG	85.91	284	eP	55 18.80	-0.6
EBR	86.06	41	eP	55 21.00	1.2
			eS	05 46.00	
			ePP	58 38.00	
PVC	86.10	245	iPc	55 21.00	0.8
ORO	86.13	34	eP	55 20.50	0.2
	1.4s		110.00nm		5.8mb
TMA	86.16	33	eP+	55 21.20	0.8
MAL	86.19	46	iPc	55 21.30	0.8
			iS	05 47.00	
			iPS	06 51.00	
			iSSS	15 04.00	
			iPP	58 45.00	
OGA	86.48	31	eP	55 22.80	0.8
MOS	86.49	12	iPc	55 22.00	0.4
	8.0s		9600.00nm		7.0mb X
			eSKS	05 47.00	
			eS	05 59.00	

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				ePS	07	08.00						PS	07	20.00						iPP	59	30.00	
				iPP	58	48.00						SS	12	08.00		COZ	92.78	24	iPd	55	52.00	0.3
KMR	86.77	29	eP+	55	23.90	0.7	SRO	88.54	26	iPc	55	32.50	0.8	CMP	93.05	24	ePd	55	46.00	-6.8
			e	06	06.50					iS	06	01.00		SGO	93.40	32	iPd	55	56.00	1.6
			ePP	58	49.00					i	56	51.00			1.3s	120.00nm			6.1mb	
OBN	86.85	13	iPc	55	23.40	0.0				i	59	00.80		BUC1	94.20	23	eP	55	56.50	-1.5
	1.0s	160.00nm			6.2mb		TRI	88.54	30	e(P)	55	37.50	5.8	ERC	94.23	35	e(P)	56	00.00	1.8
	Z 16s	27.00um			6.7MszX		LJU	88.58	30	eP	55	32.40	0.5	ORI	94.31	32	eP	56	00.00	1.4
	N 18s	21.00um								eS	05	59.40		SKO	94.68	28	iP	56	01.00	0.7
	E 18s	14.00um					ITR	88.64	102	eP	55	31.90	-0.7				iS	06	35.00	
		iSKS	05	48.00						e	55	37.70					i(PS)	08	36.00	
		iS	05	54.00						e	56	15.60					iPP	59	49.00	
		iSP	06	56.00						i	56	29.60		VTS	94.78	26	iPd	56	01.00	0.3
		iSSS	15	16.00						i	56	39.20		PVL	94.98	25	iPd	56	03.00	1.4
		isP	55	39.00			JOS	88.73	25	iPc	55	33.00	0.4	OHR	95.18	28	iP	56	03.00	0.3
		iPP	58	50.00			PRT	88.88	33	eP	55	30.00	-3.4				iS	06	37.50	
STV	86.90	35	eP	55	24.00	0.0				e(S)	05	58.00		ANP	95.56	307	eP	56	06.00	1.3
SOB1	86.96	104	iP	55	24.90	0.3	CVF	88.91	35	iPc	55	33.80	0.2	VAY	95.67	27	iPc	56	05.00	0.2
		e	55	29.10			PSZ	89.01	26	eP	55	36.00	1.9	SIM	95.96	18	eP	56	06.00	-0.1
NVS	87.00	347	iPc	55	24.00	-0.2	FIR	89.03	33	eP	55	33.00	-1.1				ePP	00	02.00	
	2.3s	850.00nm			6.6mb					eSKS	06	05.00					eSKS	06	42.00	
		iS	05	49.70						eS	06	23.00					eS	07	26.00	
LRG	87.05	36	eP	55	25.40	0.8	BUD	89.07	26	eP	55	34.00	-0.3	WHN	96.09	315	P	56	07.00	0.1
	0.8s	46.00nm			5.8mb		UZH	89.20	24	iPc	55	35.40	0.6				PP	00	00.00	
FRF	87.11	36	iPc	55	25.30	0.4		1.2s	200.00nm			6.3mb					eSKS	06	37.00	
	0.8s	58.80nm			5.9mb			Z 14s	62.00um			7.2MszX		DIM	96.10	25	iP	56	08.00	1.2
VG1	87.17	33	eP	55	28.80	3.7		N 14s	16.00um					GTA	96.14	330	Pc	56	07.20	0.0
KRA	87.19	24	eP	55	25.60	0.4		E 14s	32.00um								SKS	06	45.00	
	1.2s	173.00nm			6.2mb					ePPP	01	05.00					S	07	22.00	
	Z 16s	39.30um			6.9MszX					iSKS	06	03.00					SS	13	51.50	
	N 22s	34.40um								iS	06	23.00					PP	59	56.40	
	E 22s	38.30um								iSP	07	30.00		XAN	96.35	321	Pc	56	08.40	0.3
		iS	05	54.00						iSS	12	20.00					SKS	06	45.00	
		i	55	30.00						isP	55	50.00					S	07	29.00	
		i	55	39.10						iPP	59	05.00		WMQ	96.37	340	Pc	56	09.00	0.9
		i	55	49.10			HHC	89.74	323	eP	55	39.10	1.4				PP	00	13.00	
		e	58	52.00						SKS	06	10.00					SKS	06	47.00	
LMR	87.21	36	iPc	55	25.80	0.4				S	06	32.00		KDZ	96.38	25	iP	56	09.00	0.9
	1.0s	76.00nm			5.9mb		TIA	90.34	317	P	55	40.60	0.2	ANN	96.77	16	eP	56	10.40	0.7
ALM	87.24	45	iPd	55	26.00	0.4				eSKS	06	06.50			8.0s	2500.00nm			6.8mb	X
	0.9s	2.40nm			4.4mb	X				S	06	38.80			Z 20s	35.00um			6.8Msz	
	N 11s	0.80um								sP	55	53.20			N 20s	40.00um				
	E 18s	0.50um					NOU	90.34	242	iPc	55	41.80	1.4		E 20s	35.00um				
		eS	06	02.30			RAB	90.44	265	iP+	55	40.00	-1.1				eSKS	06	42.50	
		iPP	58	53.60			BTO	90.67	324	iPd	55	42.00	0.0	DMK	97.02	23	eP	56	11.00	0.0
KBA	87.26	30	ePc	55	25.40	-0.4				SKS	06	10.00		LZH	97.18	325	P	56	12.30	0.3
	1.2s	92.00nm			5.9mb					S	06	37.00			9.0s	3710.00nm			7.0mb	X
		i	55	27.50			BLY	90.69	29	iP	55	43.80	1.9		E 13s	1.90um				
		i	55	39.60			POI	90.73	33	eP	55	42.50	0.5				PP	00	09.00	
SAL	87.26	32	eP	55	26.50	0.9	MNS	90.77	33	eP	55	42.00	-0.2				SKS	06	51.00	
ALI	87.29	43	iP-	55	27.50	1.7	VAO	90.86	118	eP	55	42.20	-0.7				S	07	35.00	
		iS	06	15.50						e	55	48.10					PS	08	53.00	
SVE	87.33	359	iPc	55	26.00	0.3	AQU	91.11	32	e(P)	55	45.00	1.1				SS	14	12.50	
	3.2s	770.00nm			6.4mb	X	RMP	91.24	33	iPc	55	40.00	-4.5	PMG	97.51	264	eP	56	14.00	0.6
		ePPP	00	46.00						iS	06	20.00		QZH	97.61	308	Pc	56	15.00	1.2
		eSKS	05	50.00						iPS	07	56.00		CTT	97.84	23	eP	56	15.20	0.5
		eS	06	04.00						iPP	59	20.00		ISK	98.12	23	eP	56	16.70	0.8
HNR	87.34	256	iP	55	27.50	1.2	RDP	91.29	33	eP	55	45.00	0.2	EZN	98.33	25	iP	56	17.10	0.3
CTI	87.39	31	iPd	55	27.00	0.6	TIM	91.35	26	iPd	55	45.70	0.9	EDC	98.38	24	iPd	56	17.70	0.6
VKA	87.43	27	ePc	55	26.50	0.1	LPA	91.55	133	eP+	55	44.00	-1.7	SOC	98.52	15	eP	56	18.00	0.3
		eSKS	05	55.00				Z 20s	9.22um			6.2Msz			Z 16s	12.00um			6.5MszX	
		e	55	27.90			SSE	91 64	311	Pc+	55	46.90	0.5		N 21s	19.00um				
		e	55	33.90				1.2s	221.00nm			6.4mb			E 20s	16.50um				
		(PP)	58	59.30				Z 14s	9.00um			6.4MszX					ePP	00	20.00	
ARU	87.74	1	iPc	55	27.70	0.1		N 14s	6.80um								eSKS	06	58.00	
	1.6s	330.00nm			6.4mb					S	06	24.00					eS	07	40.00	
	Z 18s	19.50um			6.6Msz					sS	06	44.00					ePS	09	16.00	
	N 20s	12.00um								eSS	12	17.00					epP	56	24.00	19kmX
	E 15s	14.00um								PP	59	15.00		PYA	98.71	12	eP	56	19.00	0.4
		ePPP	00	52.00			TIY	91.71	321	eP	55	47.00	0.2		2.0s	220.00nm			6.5mb	
		iSKS	05	55.50						SKS	06	21.00					iSKS	06	56.00	
		eS	06	07.00						sS	06	50.00					iPS	09	18.00	
		eSP	07	10.00			SEM	91.85	347	ePc	55	46.80	-0.3	ATH	99.02	28	iPd	56	21.00	1.0
		isP	55	43.20						eSKS	06	17.90			Z 20s	27.30um			6.7Msz	
ZST	87.78	27	iPd	55	27.70	-0.3				esP	56	02.40					iPP	00	24.00	
		e(S)	06	09.60						ePP	59	23.30					eSKS	06	56.00	
		i(PP)	58	47.70			DUI	92.13	32	eP	55	51.00	2.5				ePS	09	23.00	
RBL	87.86	30	eP	55	30.50	1.9	NJ2	92.36	313	iPc	55	49.00	-0.7	TLG	99.26	347	eP	56	20.70	-0.5
IFR	87.95	49	iP	55	29.50	0.1				SKS	06	24.00			1.9s	30.00nm			5.6mb	
ELT	87.96	344	iPc	55	28.20	-0.6				S	06	56.00					ePP	00	27.00	
	1.1s	250.00nm			6.5mb					sP	55	56.00					eSKS	07	03.00	
		iSKS	05	55.00			KIS	92.65	21	iPc	55	51.00	0.2	GRO	99.79	10	iPc	56	24.00	0.5
BJI	88.04	320	eP	55	29.00	-0.4		9.0s	3100.00nm			6.7mb	X		8.0s	2500.00nm			6.8mb	X
	N 17s	9.30um								iPPP	01	32.00			Z 22s	15.00um			6.5Msz	
	E 20s	10.40um								iSKS	06	24.00			N 22s	38.00um				
		SKS	05	58.00						iS	06	48.00			E 22s	50.00um				
		eS	06	13.00						isP	56	06.50					iSKS	07	05.00	

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PRZ 99.83 346 eP 56 24.00 0.1
1.0s 30.00nm 5.8mb
ePP 00 33.00
ePPP 02 45.00
eSKS 07 04.00
ePS 09 27.00
eSS 14 52.00
FRU 100.15 349 ePdiff56 25.20 0.2
2.5s 240.00nm 6.3mb
E 22s 19.80um
ePP 00 34.00
ePPP 02 42.00
eSKS 07 04.00
eSKS 08 00.00
eSP 09 22.00
ANTO 100.34 21 Pdiff 56 27.00 1.1
MAK 100.35 9 ePdiff56 29.00 3.3
8.0s 1500.00nm 6.6mb X
ePP 00 34.00
iSKS 07 08.50
eSP 09 31.00
BKR 101.02 12 ePdiff56 27.00 -2.0
1.4s 30.00nm 5.7mb
ePP 00 40.00
iPS 09 42.00
MTA 101.27 11 ePdiff56 31.60 1.8
N 20s 8.00um
E 20s 13.00um
ePP 00 40.60
ePPP 02 52.60
iSKS 07 11.60
eSP 09 41.60
NRN 101.29 348 ePdiff56 30.20 -0.2
eSKS 07 10.00
CD2 101.46 322 Pdiff 56 31.00 -0.1
LEN 102.02 12 ePdiff56 34.00 0.5
7.0s 1400.00nm 6.7mb X
GZH 102.23 311 Pdiff 56 35.00 0.4
BAG 102.26 301 ePdiff56 34.00 -1.1
TAS 102.33 353 ePdiff56 35.00 0.3
3.0s 280.00nm 6.4mb
Z 20s 15.40um 6.5Msz
ePP 00 50.00
eSKS 07 13.00
eS 08 21.00
ePS 09 58.50
ANR 102.52 350 ePdiff56 36.20 0.7
3.0s 240.00nm 6.4mb
ePP 00 56.40
eSKS 07 16.20
eS 08 20.60
iPS 10 02.20
ERE 102.70 12 ePdiff56 38.00 1.6
SHE 102.85 9 ePdiff56 40.00 3.1
iSKS 07 20.00
KSH 103.21 347 ePdiff56 40.00 1.2
SKS 07 19.00
GYA 103.53 318 Pdiff 56 41.00 0.5
SKS 07 17.00
GRS 103.66 11 iPdiff56 43.00 2.2
iPP 00 59.40
iPS 10 08.00
SAM 104.18 354 ePdiff56 44.00 1.0
7.0s 1000.00nm 6.8mb X
iPP 01 05.40
iSKS 07 26.00
iPS 10 15.00
CTA 104.26 255 iPdiff56 45.00 1.3
i 00 01.00
i 07 26.00
i 08 52.00
i 09 17.00
i 10 12.00
i 14 56.00
i 59 34.00
GAR 104.51 351 ePdiff56 47.40 2.8
eSKS 07 26.40
DAV 104.82 290 ePdiff56 46.00 -0.3
TAB 105.06 11 ePdiff56 50.00 2.9
e 01 09.00
DSH 105.12 353 ePdiff56 50.40 3.2
ePP 01 08.50
eSKS 07 22.50
eSP 10 18.50
KUL 105.67 352 ePdiff56 49.20 -0.4
ePP 01 17.20
eSKS 07 29.50
eS 08 46.70
KHO 105.85 350 ePdiff56 52.40 1.7
eSKS 07 32.40
ePS 10 32.00
VAN 106.19 1 ePdiff56 55.40 3.5
ePP 01 18.00
ePPP 03 30.00
iPS 10 34.00
eSS 16 20.00
ASH 106.19 1 ePdiff56 56.00 4.1
KMI 106.69 320 ePdiff56 55.00 0.3
PP 01 21.00
MHI 107.85 0 iPdiff57 03.00 3.5
LSA 108.07 331 ePdiff57 00.80 -0.2
MTN 112.39 270 ePKP 01 15.00 -1.0
NDI 113.37 343 ePKP 01 16.00 -1.6
WB2 113.62 262 ePKP 01 16.30 -2.0
i 01 18.60
WRA 113.63 262 PKPd 01 18.20 -0.2
0.9s 17.80nm
SHI 114.14 7 ePKP 01 19.00 -0.3
BDT 115.12 318 ePKP 01 19.80 -1.4
PCT 115.84 314 ePKP 01 24.00 1.4
ASPA 115.88 259 ePKP 01 22.00 -0.6
SBA 121.64 194 ePKP 01 34.50 2.6
eS 13 06.60
POO 123.92 344 ePKP 01 38.00 -0.1
IPM 123.96 307 ePKPd 01 38.80 0.5
BNG 124.20 52 iPKPc 01 38.00 -0.8
0.9s 40.00nm
SPA 126.03 180 e(PKP)01 41.00 0.1
1.2s 145.00nm
Z 20s 4.89um 6.2Msz
e 01 45.00
DRV 126 42 209 iPKP 01 41.00 -0.5
PSI 126.74 308 ePKPc 01 35.50 -8.2
GBA 127.69 338 PKP 01 45.00 -0.4
1.1s 15.00nm
PPI 128.14 304 ePKP 01 46.70 0.4
ARO 129.92 22 iPKP+ 01 51.20 1.4
KOD 130.85 337 ePKP 01 52.00 0.2
AAE 130.87 28 ePKP 01 52.50 0.6
NVL 137.30 159 ePKP 02 02.00 0.0
epPKP 02 08.00
ePP 04 46.00
ePS 15 12.00
MIR 144.05 202 iPKP 02 11.00 -3.1
esPKP 02 24.00
SYO 145.31 167 iPKP 02 15.80 -0.4
KRI 147.09 62 iPKPd 02 22.00 1.1
ipPKP 02 55.00
iSKP 05 44.00
SUR 147.81 95 iPKPc 02 24.30 2.6
0.6s 200.00nm
Z 19s 19.90um 6.9Msz
MTD 148.44 60 iPKPc 02 25.00 2.0
iSKP 05 49.00
BUL 148.45 68 iPKPc 02 27.00 4.0
ipPKP 02 57.00
iPP 04 30.00
MAW 148.51 182 ePKP 02 22.00 0.5
1.3s 110.00nm
SWZ 149.54 83 iPKPc 02 24.00 -0.5
i 02 28.00
KIM 149.75 86 iPKPc 02 26.70 1.9
1.2s 200.00nm
KSR 150.20 79 iPKPc 02 25.80 0.2
i 02 31.10
BFS 150.58 81 iPKPd 02 27.00 0.9
1.0s 600.00nm
HVD 151.02 89 iPKPc 02 29.10 2.5
1.0s 302.00nm
i 02 34.20
BLF 151.03 86 ePKP 02 30.00 3.3
i 02 37.00
PRY 151.15 80 iPKPc 02 27.00 0.1
1.0s 452.00nm
i 02 35.00
VIR 151.16 83 ePKP 02 28.50 1.6
PRE 151.17 78 ePKP 02 29.00 2.0
1.2s 1.04nm
i 02 34.50
SLR 151.23 78 iPKPc 02 28.90 1.8
0.9s 750.00nm
Z 20s 16.70um 6.8Msz
i 02 34.30
BPI 151.24 79 ePKP 02 26.50 -0.7
i 02 33.50
SEK 151.87 83 iPKPc 02 29.50 1.5
i 02 32.00
NPA 152.15 46 iPKPc 02 31.00 2.5
1.0s 160.00nm
i 02 37.00
e 03 02.00
EVA 152.23 78 ePKP 02 31.50 2.9
i 02 35.50
GRM 152.72 94 iPKPc 02 28.00 -0.9
1.3s 320.00nm
Z 17s 10.90um 6.7MszX
i 02 38.00
CNG 154.57 75 ePKP 02 34.00 2.5
i 02 40.00
i 02 51.00
i(PP) 04 12.00
i 05 24.00
i 07 25.00
AVY 159.80 35 ePKPc 02 41.00 2.5
569 obs. associated

MAY 26, 1983 02h 59m 59.45± 0.21s
40.465 N ± 1.0km 139.133 E ± 1.2km
DEPTH = 23.0 ± 1.6 km
6.8mb (110 obs.) 7.8Msz (11 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)
One hundred four people killed, 163 injured and extensive damage to dwellings, roads and vessels caused by earthquake and o tsunomi along the Japan Sea coast from southern Hokkaido to the Niigata area, Honshu. Many of the casualties and much of the damage occurred on the Ogo Peninsula. Tsunomi damage occurred as far away as Yamaguchi Prefecture in southwestern Honshu, along the Japan Sea coast of USSR, and along the eastern and southern coasts of South Korea, where 3 additional people were killed. Felt (V JMA) at Akita, Fukauro and Mutsu. Felt on Hokkaido and throughout northern and central Honshu. Estimated tsunami heights were 14 m. at Minehama, Honshu, 2–6 m. along southern Hokkaido and northern Honshu, up to 8 m. along the coast of USSR, and 4 m. along the coast of South Korea.

AOMJ 0.95 84 iP 00 16.50 -0.6
AKI 1.05 135 iP+ 00 17.80 -0.9
S 00 36.50
AOM 1.30 74 iP+ 00 21.80 -0.5
eS 00 46.00
HJH 1.38 144 iP 00 21.30 -2.1
SAK 1.65 160 eP 00 31.00 3.7X
S 00 53.80
SKH 1.73 158 iP 00 26.80 -1.7
MRK 1.74 116 iP+ 00 28.00 -0.6
eS 00 56.00
HAK 1.82 42 iP+ 00 30.80 1.0
eS 01 01.00
HAC 1.83 87 iP+ 00 29.50 -0.3
S 00 56.00
MOR 1.97 33 eP 00 32.00 0.2
eS 00 59.00
MRR 2.32 36 eP 00 38.00 1.2
MIY 2.32 110 P+ 00 37.30 0.3
S 01 16.00
OFUJ 2.39 124 iP 00 36.50 -1.5
YAMJ 2.39 163 iP 00 35.90 -2.1
YAM 2.40 156 P+ 00 36.20 -1.9
OFU 2.44 124 P+ 00 37.00 -1.6
e 00 51.00
MRRJ 2.44 36 iP 00 38.20 -0.4
SUT 2.47 19 iP+ 00 40.10 1.1
eS 01 15.00
AIK 2.54 196 eP+ 00 38.00 -2.0
eS 01 04.00
NII 2.55 181 P+ 00 39.50 -0.7
S 01 03.00

26d 03h

SEN	2.59	148	P+	00	40.60	-0.2				eS	02	31.70		CN2	10.70	293	iPd	02	31.00	-3.3X
			eS	01	13.00		HMM	5.85	191	eP	01	28.00	1.0				sP	02	44.00	
ISN	2.64	140	P+	00	40.00	-1.5	NGT	5.86	182	eP	01	32.00	4.9X				eS	04	36.00	
			e	00	46.00		OMA	5.90	187	eP	01	29.00	1.4	NGS	10.72	227	Pd	02	36.80	2.2
FKS	2.90	158	P+	00	43.60	-1.5	TYK	5.98	216	eP	01	28.00	-0.8				eS	04	30.00	
			e	01	06.20		VLA	6.03	298	iP	01	25.00	-4.4X	KAG	11.26	221	eP	02	44.00	2.0
SAP	3.07	32	P+	00	49.70	2.2	KYO	6.07	207	eP	01	30.00	-0.1				S	04	43.40	
			eS	01	34.00		TSU	6.12	201	eP	01	31.00	0.3	FKJ	11.33	230	P	02	45.20	2.2
NIIJ	3.22	182	iP	00	47.30	-2.4				S	02	37.10					e	05	10.00	
URA	3.23	57	P+	00	51.40	1.6	TK04	6.15	190	eP	01	32.00	0.9	KAGJ	11.42	218	eP	02	44.00	-0.2
			eS	01	36.00		SAI	6.23	229	eP	01	30.00	-2.4	TAJ	11.74	217	eP	02	49.00	0.4
TKD	3.43	192	eP	00	51.00	-1.6	TOTJ	6.29	219	P	01	31.90	-1.2	NKL	12.72	4	iPc	03	03.50	2.0
			eS	01	31.00		TOT	6.30	220	ePd	01	34.00	0.6				iS	05	26.00	
SHR	3.45	165	eP	00	52.00	-1.0				iS	02	36.00		CBI	13.58	168	P	03	11.10	-1.9
			e	01	48.00		NAR	6.34	205	eP	01	35.00	1.2				S	05	39.50	
WAJ	3.53	210	P+	00	53.00	-1.1	TK03	6.36	189	eP	01	36.00	2.0	NZJ	14.43	216	Pd	03	26.00	1.8
			eS	01	26.00		OSA	6.45	208	eP+	01	36.00	0.6				S	05	51.90	
HOOJ	3.66	57	P	00	55.90	-0.1				e	03	17.00		SKR	15.62	44	P	03	38.10	-1.5
ONA	3.78	158	P	00	59.80	2.2	OSK	6.46	206	eP+	01	35.00	-0.6	MVI	16.01	207	eP	03	46.00	1.2
			e	01	35.10		KOB	6.56	210	iPd	01	39.40	2.4	NGO	16.65	217	eP	03	54.00	1.1
NGN	3.87	191	eP	01	01.00	2.1				e	03	04.20		NAH	17.11	217	eP	04	00.00	1.4
			eS	01	46.00		TK02	6.60	190	P	01	41.00	3.7X	SSE	17.28	243	Pc+	04	03.00	2.3
OBI	3.92	50	P+	01	01.80	2.2	HIM	6.63	213	eP	01	39.00	1.1		N	10s	5500.00um			
			eS	02	05.00					eS	03	12.00			E	10s	4330.00um			
RMJ	3.95	27	eP	01	02.00	2.1	SHO	6.63	57	iPc	01	36.00	-2.0				pP	04	14.20	
			S	01	57.60		N	12s	9615.00um								PP	04	21.00	
UTS	3.96	171	Pd	01	01.60	1.4	E	15s	9552.00um								sP	04	23.40	
			eS	01	46.00					eS	02	53.20					S	07	21.00	
MAT	3.98	191	iPc	00	58.80	-1.8	TK01	6.80	191	P	01	43.30	3.3X				sS	07	34.00	
MTMJ	4.01	195	iP	00	59.00	-2.0	OWA	6.80	201	eP	01	39.00	-1.4				SS	07	43.00	
TOY	4.04	203	eP	01	04.00	2.6				e	03	32.50		KMJ	17.42	220	eP	04	00.00	-2.6
			eS	01	42.00		WKYJ	6.84	205	P	01	41.90	0.9	BJI	17.53	276	iPd	04	03.00	-0.8
MAE	4.06	181	eP	01	02.00	0.4	YONJ	6.92	222	P	01	41.90	-0.1				eS	07	17.00	
			S	01	50.10		MTS	6.92	226	Pd	01	42.80	0.8	TIA	17.77	263	iPd	04	06.70	-0.2
ASA	4.09	35	P+	01	04.40	2.4				iS	02	53.00					sP	04	22.50	
			e	02	18.00		SUM	6.98	210	P	01	43.20	0.3				PP	04	25.00	
KAZ	4.14	187	eP	01	03.00	0.0	WKY	6.98	208	ePd	01	44.20	1.3				S	07	39.00	
MIT	4.21	165	Pd	01	05.70	1.9				iS	02	58.30		PET	18.27	40	P	04	10.00	-2.9
			eS	01	52.00		YSS	7.04	20	iPc	01	46.00	2.3	NJ2	18.35	249	iPc	04	15.00	0.9
MTM	4.31	193	eP	01	15.00	9.7X		1.0s	********nm				8.6mb X				S	07	39.00	
KMG	4.32	177	eP	01	07.00	1.8	OKA	7.10	217	eP+	01	45.00	0.4	TUP	19.00	324	ePc	04	19.20	-2.6
			e	02	14.00					e	03	13.60			1.8s	150.00nm			4.9mb X	
KAKJ	4.33	169	iP	01	03.40	-2.1	TKM	7.35	215	eP	01	48.00	0.0	MYK	19.47	221	eP	04	34.00	6.4X
KAN	4.37	207	eP	01	05.00	-1.0				iS	03	23.40		ISI	20.41	223	eP	04	43.00	5.5X
CHJJ	4.41	181	iP	01	02.60	-4.0X	TKS	7.35	211	eP+	01	48.00	0.0	TIY	20.88	271	eP	04	41.50	-0.9
CHJ	4.47	181	eP	01	20.00	12.6X				eS	03	08.00					S	08	32.00	
			e	02	16.00		HJJ	7.37	176	Pd	01	49.20	0.9	HHC	20.89	280	Pc	04	41.90	-0.7
TKY	4.55	200	iP	01	07.80	-0.9				S	03	08.60		MGD	20.96	16	eP	04	39.50	-3.5X
KUS	4.67	56	eP	01	10.00	-0.3	SHJ	7.50	202	ePd	01	51.00	0.8		Z	14s	829.00um			7.3MszX
			e	02	04.00					e	03	06.00					iS	08	36.00	
TOK	4.80	174	eP	01	14.00	1.9	TKSJ	7.63	214	P	01	53.40	1.4				iSSS	09	16.00	
			e	02	30.00		SHK	7.83	223	ePd	01	52.70	-2.1	ANP	21.19	229	iP+	04	44.00	-1.6
KOF	4.81	186	eP	01	13.00	0.7	HMD	7.89	227	eP	01	56.00	0.4				eS	08	26.00	
			eS	02	01.00					e	03	43.00		TATO	21.36	229	eP	04	46.00	-1.3
CHO	4.92	164	eP	01	13.00	-0.8	HIR	8.09	223	eP	02	00.00	1.6	BTO	22.09	280	Pd	04	53.00	-1.6
			eS	02	11.00					e	03	50.00					S	08	50.00	
FUK	4.96	208	ePd	01	14.00	-0.4	MDJ	8.17	304	Pd	01	57.00	-2.6	YAK	22.33	348	iPc	04	54.20	-2.4
			eS	02	03.50		KOC	8.22	215	eP	02	01.00	0.8		1.0s	2190.00nm			6.6mb	
FUN	4.97	183	eP	01	19.00	4.4X				iS	03	55.90					ePP	05	22.60	
			eS	02	49.00		MRT	8.22	210	eP	02	00.00	-0.3				iSS	09	44.60	
YOK	5.04	175	eP	01	15.00	-0.5				eS	03	21.00		WHN	22.41	252	eP	04	53.00	-4.7X
			eS	02	09.00		MTY	8.33	219	eP	02	02.00	0.3				iS	08	54.00	
IID	5.05	192	Pd	01	18.00	2.3				e	03	38.00		QZH	23.12	234	iPc	05	02.50	-2.2
			iS	02	16.50		UGL	8.87	13	iPc	02	11.00	1.9	BOD	23.63	326	eP	05	06.20	-3.2X
IIDJ	5.07	191	P	01	14.60	-1.4		1.0s	11.00nm				5.1mb X	SEY	23.83	15	iPc	05	11.00	-0.3
ABJ	5.22	45	P+	01	20.10	2.1	UWA	8.94	218	eP	02	11.00	0.8				S	09	29.00	
			eS	02	27.00		SHNJ	8.99	228	P	02	11.60	0.7	XAN	24.81	265	Pc	05	19.00	-2.2
WAK	5.29	20	eP	01	22.00	3.0X	ASZ	9.16	214	P	02	14.60	1.4	IRK	26.51	308	P	05	35.00	-1.8
			eS	02	32.00					S	03	46.20		SMY	26.70	51	eP	05	39.00	0.5
MIS	5.35	182	ePd	01	22.00	2.1	SHN	9.21	228	ePd	02	16.00	2.1	ZAK	26.81	304	iPc	05	38.50	-1.0
TSR	5.38	208	eP	01	40.30	19 9X				eS	03	56.00			1.6s	2350.00nm			6.6mb	
			eS	02	47.40		OIT	9.39	222	Pd	02	19.60	3.2X		Z	12s	4694.00um			8.3MszX	
GIF	5.39	201	ePd	01	21.00	0.5				e	04	58.00			N	10s	2980.00um			
			eS	02	12.00		FKK	9.80	228	iPd	02	24.30	2.2		E	12s	3376.00um			
AJI	5.41	180	eP	01	19.00	-1.8				eS	04	11.00					eS	10	13.50	
TAT	5.50	174	P	01	24.40	2.3	NOB	9.89	220	Pd	02	25.80	2.6	PIP	27.22	221	ePd	05	43.50	0.0
			eS	02	21.00					eS	04	10.00		GUMO	27.24	168	eP+	05	42.00	-1.7
KTJ	5.51	180	eP	01	22.00	-0.2	ASJ	9.96	223	ePd	02	26.00	1.7		1.0s	2460.00nm			6.8mb	
SHZ	5.51	186	eP	01	24.00	1.8	IZU	10.02	235	eP	02	26.00	1.0	PJG	27.24	168	e(P)	05	43.80	0.1
TSRJ	5.51	208	iP	01	21.40	-0.8				S	04	36.00		GUA	27.30	168	eP+	05	42.20	-2.1
NAG	5.56	199	eP	01	23.00	0.1	SAG	10.09	227	eP	02	28.00	2.0		0.9s	672.00nm			6.3mb	
			S	02	12.60					S	04	06.50					(pP)	05	50.70	30kmX
NEM	5.60	57	P+	01	22.40	-1.0	KUM	10.20	224	Pd	02	29.50	2.0				e(S)	10	14.00	
HIK	5.66	205	eP	01	25.00	0.7				S	04	22.10		GZH	27.79	239	Pc	05	48.20	-0.5
			iS	02	31.50		KUMJ	10.35	223	P	02	31.00	1.4				sP	06	00.00	
OSH	5.70	178	ePd	01	26.00	1.2	MYZ	10.56	219	eP	02	35.00	2.6				iS	10	33.00	
MZH	5.84	212	P	01	26.30	-0.5				e	05	05.00		HKC	27.81	237	P	05	48.00	-0.9

26d 03h

LZH	27.93	272	Pc	05	48.00	-2.1		1.6s	4030.00nm		7.1mb	HYB	56.63	265	ePc	09	41.00	-2.2
			sP	06	02.00		MDG	45.90	171	eP	08 21.00	-1.0		1.4s	1930.00nm		6.9mb
SZP	27.96	221	eP	05	51.00	0.8	DMN	45.92	271	eP	08 20.40	-2.1			i	09	46.00	
MCO	28.34	237	eP	05	53.80	0.2	RAB	46.02	162	iPc	08 22.00	-1.0			eS	17	24.00	
MOY	28.43	306	ePc	05	52.90	-1.2	BKB	46.26	212	iPc	08 30.40	5.5X	KNA	56.75	192	iPd	09	41.90	-1.9
	2.0s	490.00nm			5.9mb			1.8s	3790.00nm		7.1mb	ALE	56.81	3	eP	09	43.00	-0.7
BAG	28.87	219	iP+	05	56.00	-2.7	NRN	46.73	293	P	08 28.00	-0.8		1.0s	468.00nm			6.5mb
GTA	30.00	281	P	06	05.60	-3.0X	PMR	46.99	38	ePc	08 29.50	-0.7	QUE	58.29	284	eP	09	52.80	-2.2
			S	11	04.00		PME	47.04	38	ePc	08 29.50	-1.0	APA	58.86	334	iPc	09	56.50	-1.7
CD2	30.10	263	eP	06	05.60	-3.9X		1.4s	1990.00nm		7.0mb			1.4s	1400.00nm			6.9mb	
			pP	06	16.50	40kmX	Z	20s	1200.00um		7.9Msz		Z	20s	1650.00um			8.2Msz	
			S	11	07.00		COL	47.20	34	iPc	08 31.90	0.1	N	12s	400.00um				
MAN	30.16	217	ePc	06	11.00	1.0	FBA	47.20	34	iPc	08 31.60	-0.2	E	14s	800.00um				
OCP	30.18	217	iP	06	00.50	-9.7X	FRU	47.21	295	P	08 30.00	-2.2			iPP	12	12.00		
GYA	30.29	253	P	06	08.00	-3.3X	LAT	47.44	169	eP	08 34.00	-0.2			iS	17	58.00		
			PP	07	10.00		KSH	47.48	290	eP	08 35.00	0.5	HPO	59.24	90	eP	10	06.10	4.7X
			S	11	08.00					pP	08 45.00	33kmX	HVO	59.24	90	iP	10	04.00	2.3
LGP	30.38	211	ePd	06	21.50	9.6X				PP	10 34.00				iS	18	40.00		
CNP	30.62	209	P	06	19.50	5.5X				iS	15 39.00		POO	59.54	269	iPc	10	02.30	-1.3
PGP	31.23	216	eP	06	22.40	3.0X	SNG	47.73	237	iPc+	08 37.00	0.5	KEV	59.60	338	iPc+	10	02.20	-1.1
TIK	31.67	354	eP	06	21.00	-1.8		1.0s	980.00nm		6.8mb			1.1s	696.00nm			6.7mb	
	1.0s	510.00nm			6.4mb					iS	15 45.00				i	10	08.90		
			ePP	07	26.00		TOA	48.30	37	ePc	08 40.00	-0.6	GBA	59.81	262	P	10	03.00	-2.4
			ePPP	07	37.00		PAA	48.91	158	eP	08 42.00	-3.7X	WB2	60.26	185	iPc	10	05.70	-2.6
			ePcP	09	19.00		MKS	48.92	206	iPd	08 45.00	-0.7	ASH	60.50	296	P	10	10.00	0.1
			eS	11	21.00		KHE	48.92	348	iPc	08 45 50	0.5	MHI	60.54	294	eP+	10	09.00	-1.3
			esS	11	38.00			2.0s	9270.00nm		7.5mb				eS	18	33.00		
PLP	31.75	207	eP	06	23.00	-1.0	Z	12s	1670.00um		8.2MszX	CTA	60.60	172	iPc+	10	08.20	-2.4
ADK	32.18	54	ePd	06	26.00	-1.4				iS	15 49.00			1.2s	102.00nm			5.8mb	
UER	32.70	305	iPd	06	29.90	-2.0	IPM	49.48	234	ePd	08 50.50	0.4	CTAO	60.60	172	eP	10	08.80	-1.8
	2.0s	3000.00nm			6.9mb			2.0s	1180.00nm		6.6mb	VAN	60.67	296	ePc	10	10.00	-1.0
			eS	11	54.20					i	09 06.00				eS	18	32.00		
KMI	33.94	254	Pc+	06	40.50	-2.8				e	10 09.90		YKA	61.75	30	eP	10	17.10	-0.9
			sP	06	53.00					e	11 05.00		RSNT	61.76	30	ePd	10	16.20	-1.9
			PP	08	00.00		ANR	49.54	293	P	08 49.60	-0.7	YKC	61.81	30	ePc	10	17.00	-1.4
			iS	12	07.00		LMG	49.83	168	eP	08 51.00	-1.8		1.4s	2680.00nm			7.2mb	
CGP	34.38	206	ePc	06	43.50	-3.3X	KGM	50.14	230	ePc	08 54.00	-1.1	KOD	61.93	259	iPc	10	19.00	-1.2
PPH	34.47	203	eP	06	46.50	-1.1		1.2s	178.00nm		6.0mb	PHC	61.97	46	eP	10	19.50	-0.2	
DAV	35.38	204	eP	06	51.00	-4.4X				e	09 34.50			1.4s	970.00nm			6.7mb	
PPR	35.52	216	eP	07	00.00	3.4X	PMG	50.17	170	eP+	08 53.00	-2.3	DAG	62.21	354	iPd	10	19.10	-1.8
ILT	35.67	26	iPd	06	55.00	-2.4	Z	18s	49.80um		6.6MszX			0.7s	356.00nm			6.6mb	
	1.8s	3630.00nm			7.0mb		KLM	50.26	232	eP	09 04.00	8.0X	KHI	62.25	292	eP	10	19.80	-2.2
Z	22s	1748.00um			7.8Msz					e	09 38.80		KJF	62.66	333	iP+	10	23.00	-1.0
N	20s	3093.00um					NDI	51.37	277	iPc	09 02.50	-1.9		0.5s	362.00nm			6.8mb	
E	20s	1924.00um						0.4s	381.00nm		6.7mb				eS	18	53.00		
			iPP	08	22.00					iPP	11 02.50		KIR	62.67	338	iP	10	23.20	-0.9
			ePPP	08	32.00					iS	16 26.00		MOS	63.45	322	iPc	10	29.00	-0.3
			iS	12	34.00		TAS	51.44	295	ePc	09 03.50	-1.3		2.0s	7800.00nm			7.5mb	
ELT	37.49	308	P	07	11.10	-1.7		2.5s	8000.00nm		7.2mb				ePP	12	55.00		
WMQ	37.79	293	iPc	07	14.20	-1.4	E	12s	750.00um						iS	18	59.00		
			sP	07	26.00					ePPP	12 10.50		MBL	63.89	200	iPd	10	31.60	-0.9
			PP	08	43.00					eS	16 21.50		PVC	63.95	149	iPc	10	36.00	3.0X
			S	13	10.00		KHO	51.46	290	iPc	09 04.50	-0.7	ASPA	63.99	185	eP	10	31.00	-2.2
NVS	39.18	311	P	07	26.40	-0.5				eSPP	16 36.50		SUF	64.12	332	iP	10	32.20	-1.5
NRI	39.25	334	P	07	26.00	-1.3	PCA	51.55	39	ePc	09 04.00	-1.4		0.6s	210.00nm			6.5mb	
ANM	39.67	34	e(P)	07	29.50	-1.5	GAR	51.68	292	eP	09 18.40	11.6X	OBN	64.25	322	iPc	10	35.00	0.4
LSA	40.27	270	iPc	07	36.80	-0.1	Z	20s	960.00um		7.8Msz			2.5s	******nm			7.6mb	
			PP	09	10.80		TSI	51.85	236	ePd	09 10.50	2.4	Z	12s	1102.00um			8.3MszX	
			PcS	13	27.80		INK	52.19	28	iPc	09 09.10	-0.9	N	12s	976.00um				
CHG	40.60	250	iPc+	07	38.00	-1.1		0.6s	431.00nm		6.6mb	E	12s	747.00um					
	1.2s	308.00nm			5.9mb		PSI	52.25	235	ePd	09 10.50	-0.6			iPcP	11	07.00		
			eS	13	16.00			1.0s	269.00nm		6.1mb				iPP	12	58.00		
SEM	41.49	304	ePc	07	45.10	-0.9	KUPT	52.37	199	eP	09 13.00	1.1			iPPP	14	36.00		
			eS	13	58.90		BSI	52.44	240	eP	09 12.00	-0.6			iS	19	12.00		
			eSS	16	58.60		ARU	52.62	316	ePd	09 12.70	-0.7			eSSS	26	04.00		
BDT	41.59	248	eP	07	46.50	-0.7		2.0s	5600.00nm		7.1mb	PUL	64.34	328	P	10	33.50	-1.6	
	1.2s	874.00nm			6.4mb		Z	16s	1320.00um		8.1MszX	BAK	64.85	302	iPd	10	41.00	2.3	
PCT	41.68	243	eP	07	49.30	1.3	N	11s	500.00um						ipP	10	51.00	32kmX	
	1.6s	845.00nm			6.2mb		E	16s	1260.00um						eSP	19	34.00		
SDN	41.75	48	eP	07	49.30	1.2				ePcP	10 29.00		MAK	64.99	306	P	10	39.60	0.0
MOM	42.97	168	eP	07	57.00	-1.5				ePP	11 18.00		MCW	65.58	46	ePc	10	40.00	-3.4X
TTA	43.68	37	iPc	08	04.00	0.1				ePPP	12 21.00		GRO	65.88	307	iPc	10	44.00	-1.3
SVW	43.93	39	iPc	08	06.50	0.6				eS	16 31.00			2.0s	4600.00nm			7.3mb	
WWW	44.03	174	eP	08	07.00	-0.1	DSH	52.96	292	P	09 15.40	-0.9			iS	19	31.00		
TBL	44.67	172	e(P)	08	17.50	5.2X	HNR	53.24	154	eP-	09 18.00	-0.4	NUR	66.09	330	iPc+	10	45.10	-1.2
IMA	44.69	32	iPc	08	11.50	-0.6	SAM	53.73	294	iPc	09 20.60	-1.3		1.1s	864.00nm			6.8mb	
AAI	45.07	196	ePc	08	16.00	0.6	N	16s	814.00um						iPP	13	21.50		
	1.0s	465.00nm			6.4mb					iPP	11 26.40				iPPP	14	43.00		
TLG	45.15	295	iPc	08	16.30	0.3				iS	16 53.80				eS	19	35.00		
Z	19s	2391.00um			8.1Msz					iPS	17 04.00		GMW	66.24	47	ePc	10	47.10	-0.5
			iS	15	00.60					iSS	20 26.00		TEH	66.40	297	eP	10	55.00	6.0X
			eScS	18	14.00		MBC	53.76	17	ePc	09 20.70	-0.8	NAU	66.44	204	iPc	10	47.20	-1.7
AAA	45.45	295	P	08	18.40	0.1	SIT	54.98	42	eP	09 31.70	0.9	BFW	66.60	48	ePd	10	49.80	-0.2
KKN	45.69	271	eP	08	18.70	-1.9		1.6s	1770.00nm		6.8mb	IR7	66.95	298	iPc	10	52.10	-0.4	
PKI	45.70	271	eP	08	18.60	-2.3	OPA	55.86	90	iP	09 42.00	4 4X	PNT	66.96	44	ePc	10	51.30	-0.9
	1.6s	3780.00nm			7.1mb		KIP	56.01	90	eP	09 40.00	1.4		0.9s	679.00nm			6.8mb	
KDC	45.86	44	iPc	08	20.50	-0.7	HON	56.07	90	eP	09 42.20	3.1X	KRV	66.98	304	iPd	10	52.00	-0.4

26d 03h

			ePcP	11	18.00				N	20s	280.00um					CAN	75.96	172	iPc	11	46.40	0.4
			ePP	13	19.00				E	20s	290.00um								e	14	53.40	
			iS	19	46.00							i	11	28.80					e	15	08.00	
			eSS	24	04.00							ePP	14	26.00					e	18	20.80	
PYA	67.08	309	P	10	52.60	-0.4						eS	21	00.00		ISA	76.00	55	eP	11	53.00	6.4X
LON	67.25	47	iP	10	53.60	-0.5						eSS	25	08.00			1.0s		0.85nm			3.7mb X
WBN	67.28	192	iPc	10	53.20	-1.1	AMM	72.49	44	eP	11	25.60	-0.7						ePP	14	52.00	
SHW	67.33	48	eP	10	54.40	-0.3	BHD	72.54	299	ePc	11	28.00	1.5						ePPP	16	59.00	
MTA	67.34	306	iPc	10	54.40	-0.2						ePP	14	13.20					eS	21	57.00	
			iS	19	41.40							eS	20	48.00					ePPS	22	24.00	
NOU	67.43	153	iPc	10	54.50	-0.8						e	22	31.00					eSS	26	41.00	
GRS	67.62	303	P	10	55.40	-1.3	AKU	72.71	350	iPc+	11	28.10	1.2		JOS	76.13	323	iPc	11	46.00	-0.9
COR	67.64	50	iPc	10	56.00	-0.5		1.2s	1500	.00nm		6.9mb					2.0s		260.00nm			5.9mb
EDM	67.76	38	iP	10	56.50	-0.7						i	11	31.80		BRL	76.23	329	iPc	11	48.50	1.2
	1.4s	750	.00nm		6.6mb							i	12	04.40		KSP	76.26	327	iPc	11	48.00	0.4
NDF	68.01	140	eP	11	03.00	4.1X						i	21	59.40			1.5s	2200	.00nm			7.0mb
BKR	68.11	307	iPc	11	00.00	0.3	BUT	72.75	44	ePc	11	27.60	-0.1						i	11	54.50	
			iS	20	00.00		KLG	72.76	196	eP	11	26.00	-1.6						iPP	14	46.00	
TAB	68.44	302	iP+	11	02.00	0.2	LRM	72.93	44	iPc	11	28.60	-0.3		BRN	76.30	329	iPc	11	48.70	0.9
LEN	68.46	306	iPc	11	02.00	0.1	MHC	72.96	55	eP	11	28.90	-0.2		MOUT	76.31	47	eP	11	48.10	-0.4
	2.4s	2400	.00nm		6.9mb							e	11	33.00		DUG	76.44	49	eP	11	48.80	-0.3
			iS	19	58.00							e	12	01.00		BDW	76.50	45	iPc	11	49.30	-0.2
NEW	68.91	44	eP	11	03.20	-1.2	KVT	72.99	310	iP	11	29.00	-0.1				1.1s	264	.00nm			6.2mb
SHI	69.06	291	iP	11	05.00	-0.7	ARN	73.03	55	eP	11	28.40	-1.0		CGN	76.52	317	eP	11	50.00	0.8
UPP	69.09	333	iP	11	03.30	-1.9	KIS	73.11	318	iPc	11	30.00	0.5		HAM	76.71	332	iPc	11	50.60	0.5
	1.7s	6700	.00nm		7.5mb			3.0s	3000	.00nm		6.8mb			WAM	76.81	172	eP	11	49.90	-0.8
			i	11	07.30			N 12s	263	.00um					GPA	76.82	312	eP	11	50.80	-0.2
			i	11	10.40							ipP	11	38.00	26kmX	PSZ	76.84	323	iPc	11	51.60	0.6
			iPP	13	44.00							iS	20	54.00		DEV	76.88	320	ePd	11	53.00	1.8
			iS	20	08.00		LCCM	73.22	44	ePc	11	30.20	-0.3		ISK	77.00	313	eP	11	51.80	-0.1
			iP'P'	29	03.30		JAS	73.34	54	iPc	11	31.20	0.1		DRA	77.06	318	eP	11	51.00	-1.2
			i	29	22.90							i	11	35.40		PAS	77.17	56	eP	11	53.00	0.0
SOC	69.31	310	iPc	11	06.50	-0.3						i	12	03.30			1.0s	850	.00nm			6.7mb
	2.1s	1300	.00nm		6.7mb							i	13	26.20					ePP	14	52.00	
			ipP	11	15.00	27kmX						eP'P'	39	01.00					eS	21	57.00	
			eS	20	18.00		SLD	73.39	55	eP	11	31.90	0.4		DMK	77.20	314	iPd	11	52.90	-0.1
MEK	69.43	200	iPd	11	05.50	-2.1	LVV	73.57	322	iPc	11	32.50	0.3		BRG	77.20	328	iPc	11	53.10	0.3
FHC	69.43	54	ePc	11	08.30	0.6		7.0s	*******	nm		7.9mb X					2.2s	745	.00nm			6.3mb
			i	11	12.80							iS	21	08.00		CLL	77.24	329	iPc	11	52.90	-0.1
			i	11	40.70							iPS	21	37.00			1.6s	3200	.00nm			7.1mb
			eP'P'	39	18.80							iSSS	28	56.00					i	11	58.60	
RXF	69.59	43	iP-	11	08.30	-0.3	IAS	73.65	319	iP	11	23.00	-9.7X						i	12	29.80	
PNO	69.63	47	eP	11	07.00	-1.8	BAL	73.71	200	iPd	11	31.50	-1.6						iS	21	45.00	
LHD	69.74	43	iPd	11	09.30	-0.2	BMN	73.73	51	eP	11	33.50	0.0		BFD	77.33	177	eP	11	57.00	3.5X
LDM	69.74	43	iPd	11	09.10	-0.4	Z	21s	1016	.26um		8.1Msz			BKU	77.36	50	eP	11	54.40	0.1
ANN	69.92	312	iPc	11	10.00	-0.5	FRB	73.83	12	ePc	11	31.80	-1.6		SDW	77.56	55	eP	11	55.40	0.1
	1.9s	4500	.00nm		7.3mb		COP	74.07	332	iPc+	11	35.30	0.4		PRU	77.63	327	iPc	11	55.50	0.2
N	13s	360	.00um					1.3s	3080	.00nm		7.2mb				Z	15s	1100	.00um			8.3MszX
			ePPP	15	28.00		CLI	74.23	318	ePd	11	37.00	0.9						i	12	31.50	
			iS	20	19.00		PPE	74.28	318	eP	11	37.00	0.6						eS	21	30.00	
CLX	69.99	43	iPd	11	11.20	0.0	PRI	74.32	56	ePc	11	37.40	0.4						e	22	45.00	
KER	70.08	298	eP	11	14.50	2.6						i	11	41.50					eSS	27	46.00	
LGBM	70.20	52	iPc	11	13.00	0.4	KLB	74.38	199	eP	11	35.00	-2.0		PVL	77.66	317	iPc	11	56.00	0.5
NB2	70.34	336	P	11	11.70	-1.2	FRI	74.39	55	eP	11	37.10	-0.1		ALT	77.76	311	iPc	11	55.70	-0.6
	1.4s	1650	.00nm		7.0mb							i	11	41.10		TOO	77.88	175	eP	11	56.00	-0.6
WDC	70.44	53	ePc	11	13.50	-0.3	BAC	74.41	318	eP	11	36.00	-1.1		ZST	77.90	325	iPd	11	57.30	0.6
			i	11	17.80		MNA	74.44	53	iPc	11	37.80	0.1			Z	12s	855	.00um			8.3MszX
			i	11	45.20							eP'P'	39	00.00					iS	21	57.20	
			eP'P'	39	12.50		MUD	74.59	334	iPc	11	38.20	0.2		MSU	77.93	49	ePd	11	58.10	0.7
SES	70.67	40	ePc	11	14.10	-1.0		1.3s	2100	.00nm		7.0mb			RSON	78.00	31	iPc	11	55.70	-1.6
	1.2s	903	.00nm		6.8mb		REY	74.66	352	iP	11	41.10	2.8		EDC	78.15	313	iPc	11	58.10	-0.2
AFI	70.68	129	iPc	11	16.00	0.4	YOU	74.86	172	iPc	11	39.00	-0.7		VKA	78.19	325	ePc	11	59.40	1.0
			S	20	28.00							e	18	38.30			1.7s	4070	.00nm			7.2mb
			SS	24	44.00		VRI	74.97	318	iPc	11	40.50	0.1						i	12	06.10	
			(SSS)	28	40.00		IMW	75.01	45	iPc	11	41.50	0.4						i	12	44.30	
RMT	70.76	54	eP	11	16.50	0.8	BRD	75.05	318	eP	11	43.00	2.1						iPP	14	59.70	
MSL	71.48	302	ePd	11	19.50	-0.7	EUR	75.07	51	iP	11	42.60	1.2						i	15	17.20	
			iPcP	11	30.50			1.0s	3.46	nm		4.3mb X							iS	21	51.00	
			e	16	13.00		MUN	75.14	200	eP	11	40.00	-1.4						(SKS)	22	02.00	
			e	19	46.00		TLB	75.17	316	ePc	11	41.50	0.0		DIM	78.21	316	eP	12	00.00	1.4
			eS	20	33.00		UZH	75.21	322	iP	11	43.00	1.3		DST	78.23	312	iPc	11	58.30	-0.5
			e	22	15.00							iPcP	11	50.00		MOX	78.31	329	iPc	11	59.50	0.5
SIM	71.65	314	ePc	11	20.00	-1.0	KRA	75.26	324	iPc	11	42.10	0.1				1.6s	3270	.00nm			7.1mb
	3.0s	2500	.00nm		6.8mb			1.5s	2520	.00nm		7.0mb				Z	14s	921	.00um			8.3MszX
			ipP	11	26.00	19kmX						i	11	47.40			N	14s	907	.00um			
			iPPP	15	40.00							i	12	04.90			E	16s	1300	.00um			
			iS	20	36.00							i	12	12.40					i	21	56.00	
COO	71.67	168	eP	11	21.00	-0.2						i	12	18.90		WIT	78.40	333	eP	12	01.00	1.6
ORV	71.70	53	iPc	11	20.50	-0.9	BMR	75.32	321	ePd	11	45.00	2.6						i	12	25.40	
FCC	71.72	26	iPc	11	19.90	-1.3	ISR	75.57	318	ePc	11	45.00	1.1						ePP	15	12.50	
	0.9s	795	.00nm		6.8mb		MLR	75.63	318	iPc	11	44.00	-0.4		RSSD	78.44	41	eP	11	58.80	-1.3
FFC	71.78	32	ePc	11	20.60	-1.0	ANTO	75.67	310	iP	11	45.10	0.5		HOF	78.46	329	iPc	12	00.40	0.5
CMS	71.86	174	eP	11	22.00	-0.2	BEI	75.74	47	eP	11	45.60	0.5		BCK	78.56	310	iPc	11	58.80	-1.9
STK	72.02	178	eP	11	22.00	-1.1	SPC	75.76	324	iPc	11	46.20	1.1		KHC	78.70	327	iPc	12	01.90	0.7
BKS	72.27	55	eP	11	24.50	-0.3	NWAO	75.78	199	eP	11	43.00	-2.0						e	12	08.50	
	1.8s	5000	.00nm		7.3mb		CEI	75.81	321	eP	11	51.00	5.9X						S	22	06.00	
Z	20s	250	.00um		7.5Msz		CJR	75.95	320	eP	11	47.00	1.0		WET	78.97	327	eP	12	03.00	0.3

WTS	79.02	332	iP	12	03.20	0.4		1.0s	1250.00nm		6.9mb				iS	23	00.00						
	1.0s	793.00nm			6.7mb		SLE	81.84	329	eP+	12	18.00	0.1	RDP	84.83	323	iPc	12	33.00	-0.4
			iPcP	12	06.20		DDK	81.89	340	iPc	12	18.40	0.4				e	23	13.00	
			e	12	39.50			1.3s	1890.00nm		7.0mb			KRP	84.84	152	P	12	34.80	1.8
			ePP	15	10.00					ePP	15	38.20		BGF	84.99	331	iPd	12	33.90	-0.1
VTS	79.07	317	iP	12	04.00	0.8				eS	22	40.00			0.9s	591.00nm				6.8mb	
			eS	22	04.00		CTI	81.92	326	iPc	12	17.50	-1.0	LPF	85.07	334	iPd	12	34.50	0.2
KMR	79.29	326	iP+	12	05.40	1.0				ipP	12	46.50	112kmX	STV	85.19	327	eP	12	36.50	1.4
EKA	79.30	339	P	12	05.00	0.7				iPP	15	35.50		MZF	85.38	331	iPd	12	36.20	0.2
	1.9s	852.00nm			6.4mb					e(S)	23	15.50		TCF	85.45	332	iPd	12	36.40	0.1
ESK	79.33	339	iPc	12	04.60	0.2	ECH	81.99	330	iPd	12	18.60	-0.1		1.4s	1650.00nm				7.1mb	
	1.5s	1300.00nm			6.7mb		DLE	82.03	340	iPc	12	19.00	0.3	LSF	85.73	332	iPd	12	37.60	-0.1
EZN	79.36	314	iPc	12	04.70	-0.2		1.2s	2070.00nm		7.0mb			CVF	85.91	326	eP	12	37.80	-0.9
ELL	79.44	310	iPc	12	04.50	-1.0				pPP	15	39.00			1.2s	558.00nm				6.7mb	
JER	79.50	303	iPc	12	06.50	0.6				eS	22	40.00		MFF	86.01	333	iPd	12	39.30	0.2
DBN	79.51	333	eP	12	04.00	-1.4	ATH	82.11	314	iPc	12	20.00	0.6	FRF	86.03	327	eP	12	38.20	-1.0
			i	12	10.00					iS	22	40.00			1.1s	529.00nm				6.7mb	
			ePP	15	20.00		ZUL	82.11	329	eP+	12	19.60	0.2	LRG	86.23	328	eP	12	39.90	-0.3
			ePPP	16	58.00		DCN	82.17	340	iPc	12	20.00	0.6		1.0s	813.00nm				6.9mb	
			iS	22	11.00			1.3s	2310.00nm		7.1mb			LMR	86.27	327	eP	12	39.70	-0.7
			iSS	27	00.00					ePP	15	34.90			1.1s	945.00nm				6.9mb	
BNS	79.73	331	iPc	12	06.40	-0.3				eS	22	46.00		GNZ	86.39	150	P	12	42.10	1.4
			ePP	15	05.50		LLS	82.37	328	eP+	12	21.30	0.4	ACO	86.43	43	eP	12	41.10	-0.3
			eS	22	09.50		BAF	82.37	330	iPd	12	20.40	-0.3	RJF	86.55	332	iPd	12	42.10	0.3
PRK	79.80	313	ePc	12	08.00	0.8	BSF	82.45	330	eP	12	20.80	-0.4		1.0s	950.00nm				7.0mb	
IZM	79.83	312	iPc	12	07.50	0.0		1.4s	858.00nm		6.6mb			CAF	86.67	331	iPd	12	43.00	0.6
TNS	79.87	330	ePc	12	08.00	0.5	HAU	82.47	330	eP	12	21.00	-0.2		1.2s	1620.00nm				7.1mb	
			ePcP	12	31.70			1.0s	656.00nm		6.7mb			LFF	87.14	332	iPd	12	45.30	0.7
			ePP	14	52.60		ETA	82.48	340	iPc	12	22.00	0.9		1.0s	1220.00nm				7.1mb	
			eS	22	18.00			1.0s	810.00nm		6.8mb			PMO	87.15	112	iP	12	46.50	1.6
			eSS	27	25.00					eS	23	22.00			1.2s	85.00nm				5.9mb	
			eSSS	30	52.00		SCH	82.53	15	eP	12	21.00	-0.4	GIB	87.17	320	e(P)	12	51.50	6.5X
GLA	79.99	55	iPc	12	09.00	0.5	SAL	82.75	326	iP	12	23.00	0.4	LPO	87.20	331	iPd	12	45.40	0.5
BHG	80.09	326	iPc	12	09.70	1.0	ECB	82.92	340	iPc	12	24.60	1.2		1.0s	1040.00nm				7.0mb	
YER	80.12	311	iPc	12	09.30	0.2	NPS	82.97	311	ePc	12	24.00	0.0	MNG	87.22	153	P	12	44.10	-0.7
VAY	80.32	317	iPc	12	10.30	0.3	ECP	82.98	339	iPc	12	24.90	1.2	MEI	87.24	318	eP	12	46.00	0.8
ENN	80.35	332	eP	12	09.50	-0.5		1.1s	1710.00nm		7.1mb						ipP	13	22.00	141kmX	
	1.3s	775.00nm			6.6mb					eS	23	24.00		TPT	87.34	112	iP	12	47.30	1.5
			iPcP	12	13.20		TMA	83.03	328	eP+	12	24.20	-0.1		1.2s	75.00nm				5.8mb	
FUR	80.40	328	iPd	12	10.80	0.4	HLW	83.24	304	iP+	12	26.00	0.6	TCW	87.34	154	eP	12	48.00	2.7
	1.4s	3090.00nm			7.1mb					eS	22	45.00		VAH	87.50	112	iP	12	47.80	1.2
			i	12	48.00		BRT	83.37	320	iPd	12	30.50	4.6X		1.2s	40.00nm				5.6mb X	
			eS	22	17.00					ipP	13	04.00	132kmX	WEL	87.57	154	P	12	48.00	1.6
SKO	80.43	318	iPc	12	11.90	1.3	LCI	83.41	319	eP	12	29.00	2.9				e	13	23.00	
			i	12	15.00		MMK	83.45	328	eP+	12	27.00	0.5				PP	16	28.00	
			iPcP	12	18.50		RAR	83.59	125	iP	12	28.00	0.8				S	23	16.00	
			iPP	15	23.00		DIX	83.65	328	eP+	12	28.00	0.4	SNZO	87.57	154	e(P)	12	46.00	-0.4
			iS	22	22.00		VLS	83.65	316	eP	12	27.50	0.1	AFR	87.57	115	iP	12	52.40	5.5X
BLY	80.45	322	iP	12	12.00	1.3	ALQ	83.71	49	ePc+	12	28.50	0.5		1.4s	305.00nm				6.4mb	
LJU	80.67	324	iPc	12	11.90	0.1	Z	22s	311.00um		7.6Msz			RUV	87.64	112	iP	12	48.80	1.5
			eS	22	26.40		ORO	83.79	328	iPc	12	27.50	-0.6		1.2s	60.00nm				5.8mb X	
CRZ	80.69	152	eP	12	17 00	5.2X		1.0s	310.00nm		6.5mb			ATO	87.66	43	eP	12	41.40	-5.9X
			i	12	40.00					ipP	12	55.50	107kmX	PPT	87.74	115	iP	12	53.20	5.5X
			e	12	49.60					ePP	16	10.00			1.4s	305.00nm				6.4mb	
STU	80.75	329	ePc+	12	12.00	-0.2				e(S)	23	09.00		RRO	87.79	44	eP	12	48.20	0.2
	1.3s	3620.00nm			7.2mb		PRT	83.88	325	eP	12	32.80	4.4X		1.6s	3110.00nm				7.4mb	
RBL	80.79	325	iPd	12	12.50	0.0		1.5s	3.00nm		4.3mb X			PAE	87.80	115	iP	12	53.60	5.6X
			iPP	15	31.00					ipP	12	47.00	49kmX		1.4s	215.00nm				6.3mb	
UCC	80.88	333	Pd+	12	13.60	0.9				iPP	16	40.00		ERC	87.83	321	iPc	12	50.50	2.5
			PP	15	30.00					iS	22	54.80					ePP	16	28.00	
			S	22	14.00		FIR	83.89	325	iPc	12	29.00	0.5	OCO	88.20	43	iPd	12	50.60	0.7
			PP	38	44.20					iS	22	53.00		CCI	88.51	323	iPd	12	52.00	0.7
GOL	80.91	45	iPc	12	14.00	0.4	VG1	83.90	327	iPd	12	29.50	1.0	MSZ	88.61	160	P	12	53.20	1.9
	0.9s	123.00nm			5.9mb		LOR	84.02	331	iPd	12	28.60	-0.5				i	13	24.50	
CEY	80.96	324	iPc	12	13.30	0.0	AQU	84.05	323	iPc	12	30.50	1.1				e	16	38.40	
GLD	80.96	45	iPd	12	14.40	0.7				ipP	13	06.50	142kmX				e	16	58.00	
Z	21s	462.00um			7.8Msz					iPP	15	45.00		SIO	88.63	42	ePc	12	51.60	-0.4
GAP	81.04	327	iPc	12	14.90	1.1	POI	84.09	323	eP	12	30.50	1.0	RHP	88.68	158	P	12	53.20	1.4
BUH	81.21	330	eP	12	14.40	-0.2	FLN	84.25	334	iPd	12	29.90	-0.3				e	23	28.70	
TRI	81.27	325	iPd	12	14.50	-0.4		1.0s	625.00nm		6.8mb						e	23	35.30	
DOU	81.38	332	Pc+	12	15.10	-0.3	LDF	84.28	334	iPd	12	30.00	-0.4	TUL	88.76	42	iPc+	12	52.50	-0.1
			i	12	18.50			1.2s	855.00nm		6.9mb				1.7s	5150.00nm				7.6mb	
			S	22	26.00		SSF	84.32	331	iPd	12	30.40	-0.2	Z	18s	419.00um				7.9Msz	
OHR	81.38	318	iPc	12	15.90	0.2		0.9s	703.00nm		6.9mb			EPF	88.93	331	iPd	12	53.00	-0.4
			i	12	22.50		MNS	84.36	323	iPc	12	31.00	0.2		1.2s	333.00nm				6.5mb	
			i	12	39.10					iPP	16	18.50		RLO	88.95	41	iPc	12	53.40	-0.1
			i	22	33.00		ORI	84.37	320	eP	12	32.50	1.5	AAM	88.96	30	ePc	12	55.50	2.1
STR	81.46	330	eP	12	17.00	1.2				e	13	02.50		OTT	89.00	24	eP	12	53.50	0.0
KZN	81.47	317	ePc	12	16.00	-0.2	SGO	84.54	321	iPc	12	32.00	0.2		1.0s	558.00nm				6.8mb	
OGA	81.54	327	iPc	12	17.30	0.7				iPP	15	55.60		ELF	89.07	28	P	12	54.70	0.8
DMU	81.57	340	iPc	12	16.80	0.4	SMF	84.55	331	iPd	12	31.50	-0.3	GBO	89.12	41	iPc	12	54.10	-0.2
	1.1s	1430.00nm			6.9mb			1.4s	1960.00nm		7.1mb			DLA	89.27	29	P	12	55.90	1.1
			ePP	15	25.30		AVF	84.61	331	iPd	12	31.80	-0.2	WLO	89.38	44	eP	12	42.90	-12.6X
			eS	22	32.00		GRR	84.70	335	iPd	12	32 40	-0.1		1.4s	2360.00nm					
LHC	81.68	30	eP	12	16.50	-0.5		1.0s	1160.00nm		7.1mb			MNT	89.52	22	iPd	12	55.90	-0.1
	1.2s	265.00nm			6.1mb		RMP	84.80	323	iPc	12	33.00	-0.1		1.6s	850.00nm				6.8mb	
CDF	81.79	330	eP	12	17.60	-0.1				iPP	15	56.00		UTO	89.54	31	iPc	12	58.00	1.8

26d 03h

IN1	89.56	33	eP	12	55.90	-0.4
CBM	89.66	18	eP	12	56.70	0.1
IN2	89.70	34	eP	12	56.80	-0.1
FVM	89.71	37	eP	12	57.10	0.1
	2.0s	2460.00nm			7.1mb	
THI	89.90	34	eP	13	00.50	2.6
			iPP	13	47.00	
			SS	22	00.50	
			SSS	24	00.50	
AN12	89.93	31	eP	12	58.00	0.0
PTN	89.96	24	eP	12	58.00	-0.1
RSNY	90.12	23	eP	12	58.60	-0.3
AN1	90.33	32	eP	13	00.00	0.1
AN3	90.40	31	eP	13	00.20	0.0
BHO	90.43	42	iP	13	00.30	-0.1
LGR	90.45	333	iPc	13	02.00	1.6
	2.0s	3.00nm			4.2mb X	
			i	13	08.50	
			iPP	16	50.80	
			iPPP	18	58.80	
			iS	24	16.00	
IN3	90.68	33	eP	13	01.60	0.1
APH	90.77	24	eP	13	02.00	0.1
JCT	90.78	48	iP	13	02.00	-0.2
	1.0s	1400.00nm			7.2mb	
EBR	90.78	330	eP	13	02.00	0.1
			e	16	38.00	
			eS	23	36.00	
ELC	90.83	37	eP	13	01.90	-0.3
POW	90.84	39	eP	13	02.00	-0.2
BNH	91.03	21	eP	13	02.80	-0.3
OLY	91.22	39	eP	13	03.40	-0.7
INY	91.40	26	eP	13	05.50	0.7
GRT	91.57	37	eP	13	05.70	0.1
STJ	91.71	8	eP	13	06.00	-0.1
	1.3s	999.00nm			7.1mb	
EMM	91.87	19	eP	13	08.40	1.6
ATX	91.99	47	iPd	13	07.80	0.1
AAE	92.00	284	eP	13	09.60	1.3
FMTX	92.51	44	iPd	13	11.30	1.3
LNX	92.51	23	eP	13	10.80	0.9
MRG	92.67	29	iPKP	13	06.60	-4.1X
			iPKS	17	03.50	
WES	93.04	22	eP	13	14.10	1.8
PWLA	93.26	37	eP	13	13.30	-0.1
ALI	93.29	329	iP-	13	15.00	1.5
			ePP	17	09.00	
GPD	93.34	25	eP	13	13.80	0.1
HKT	93.38	45	iPd	13	14.30	0.3
HDM	93.52	23	eP	13	15.00	0.5
PAL	93.53	24	eP	13	16.00	1.4
GMTN	93.55	25	eP	13	16.10	1.4
PTO	93.65	336	iPc	13	15.00	-0.1
			iS	23	56.00	
RSCP	93.85	35	eP	13	15.20	-1.0
NAV	94.37	31	eP	13	18.60	0.0
TKL	94.58	34	eP	13	18.20	-1.3
BLA	94.61	31	iP+	13	20.00	0.3
ALM	95.37	330	iPc	13	25.00	1.9
	1.6s	5.60nm			4.7mb X	
N	15s	110.00um				
			iPP	17	37.00	
			iS	25	37.20	
CRT	95.50	331	iPc	13	27.00	3.2X
LIS	96.03	336	eP	13	29.70	3.6X
MAL	96.21	331	iP+	13	26.00	-0.9
			i	13	32.50	
			iPP	17	31.00	
SFS	97.09	332	iPc	13	32.00	1.1
			iPP	17	03.00	
			iPPP	20	10.00	
			iSKS	22	24.00	
			iS	23	40.00	
			iPS	25	28.00	
			iSS	29	00.00	
			iSSS	35	14.00	
IIC	99.17	54	iP	13	45.00	4.0X
IFR	99.33	330	iP	13	41.00	-0.3
IIM	99.54	55	iP	13	46.00	3.4X
IIP	99.69	54	iP	13	47.00	3.6X
III	100.07	55	iPdiff	13	47.30	2.4X
IIT	100.31	54	iPdiff	13	50.00	4.0X
AVY	103.06	256	ePdiff	13	59.00	0.8
DRV	106.80	180	ePdiff	14	20.60	7.2X
			e	29	30.00	
NPA	107.08	265	ePdiff	14	19.00	3.1X
BNG	109.72	294	ePdiff	14	08.50	-19.2X

	0.9s	12.50nm				
MTD	113.95	268	ePdiff	14	50.00	3.5X
MTD	113.95	268	iPKP	18	40.00	1.4
			iPKKP	29	31.00	
			iP'P'	37	32.00	
KRI	115.48	269	ePdiff	14	58.00	4.6X
KRI	115.48	269	iPKP	18	43.00	1.4
			iPP	19	47.00	
			iPKKP	29	24.00	
			iP'P'	37	24.00	
SJG	117.15	27	ePKP	18	47.00	2.4
	Z 20s	155.00um			7.6Msz	
BUL	118.20	267	iPKP	18	50.00	3.3X
			iPP	20	06.00	
			iPKKP	29	13.00	
CNG	118.97	259	ePKP	18	48.00	0.2
			i	19	24.00	
			iPP	20	10.00	
			e	26	54.00	
			iPKKP	29	05.00	
			i	32	54.00	
BPA	119.54	23	ePKP	18	51.00	1.8
JOZ	119.69	258	PKP	18	46.50	-2.7X
PAG	120.56	23	ePKP	18	54.00	2.8X
KDS	120.92	327	ePKP	18	51.68	-0.1
EVA	121.43	261	PKP	18	54.20	1.4
	1.2s	408.00nm				
PRE	121.69	262	PKP	18	55.00	1.8
	1.2s	640.00nm				
PRE	121.69	262	ePdiff	15	31.00	10.1X
MAW	121.85	206	ePKP	18	53.00	1.0
	1.5s	228.00nm				
KIC	122.78	316	ePKP	18	54.00	-1.4
			e	28	51.70	
PRY	122.86	261	ePdiff	15	56.00	29.9X
PRY	122.86	261	PKP	18	33.00	-22.4X
	1.1s	300.00nm				
TOV	123.30	35	e(PKP)	19	00.40	3.9X
	1.0s	163.00nm				
SEK	123.48	260	PKP	18	53.00	-3.6X
	1.2s	640.00nm				
SEK	123.48	260	ePdiff	15	52.00	23.2X
UAV	123.74	37	e(PKP)	19	01.00	3.4X
VIR	123.93	260	PKP	18	58.50	1.0
	1.1s	180.00nm				
VIR	123.93	260	ePdiff	15	51.50	20.7X
SWZ	124.62	262	PKP	19	00.50	1.7
	1.1s	600.00nm				
SWZ	124.62	262	ePdiff	15	53.00	19.1X
BLF	124.97	260	PKP	18	40.00	-19.5X
	1.2s	408.00nm				
BLF	124.97	260	ePdiff	15	59.50	24.1X
FUQ	125.22	41	iPKP	19	04.50	3.9X
TRN	125.71	25	ePKP	19	04.30	3.2X
	1.0s	180.00nm				
BOG	125.78	42	iPKP	19	06.20	4.4X
GRM	126.76	255	PKP	19	02.50	-0.2
	1.0s	296.00nm				
SPA	130.27	180	e(PKP)	19	04.00	-4.4X
	1.0s	375.00nm				
			e	21	50.00	
SYO	130.47	208	ePKP	19	04.60	-3.9X
HUA	138.54	57	ePKP	19	20.00	-6.0X
NVL	139.74	204	ePKP	19	20.00	-6.0X
			ipPKP	19	30.00	
LPB	146.46	53	PKPc+	19	40.90	1.2
ITR	148.35	355	ePKP	19	42.40	0.1
			i	19	45.60	
SOB1	148.87	0	ePKP	19	42.70	-0.5
			e	19	45.80	
TPL	149.16	62	ePKP	19	49.00	5.7X
YJA	152.30	56	ePKPd	19	49.80	1.2
SLA	154.11	60	ePKPd	19	53.40	2.7X
BAO	154.49	16	PKP	19	52.00	0.6
VCA	154.75	71	ePKPc	19	52.50	1.1
LNV	154.90	85	iPKPd	19	55.40	4.2X
OHC	154.97	162	iPKPc	19	54.00	3.7X
BACH	154.98	81	iPKPc	19	51.60	0.1
PEL	155.11	82	iPKPc+	19	51.70	0.1
			i	19	55.00	
SAN	155.26	83	ePKPc+	19	52.00	0.2
BACH	155.35	83	ePKP	19	55.50	3.5X
PCH	155.44	83	iPKPd	19	52.20	0.1
CHCH	155.47	84	iPKPc	19	52.00	-0.1
FCH	155.49	82	iPKPc	19	53.00	0.5
TMU	155.55	96	ePKP	19	52.90	0.9
LQT	155.75	83	ePKP	19	53.00	0.4

CEN	155.84	77	ePKP	19	51.00	-1.7
RFA	157.46	84	ePKPc	19	55.00	0.3
TCA	158.78	72	ePKPc	20	01.20	4.9X
VAO	161.84	18	ePKP	20	01.30	1.6
			e	20	04.20	
			e	20	51.40	
BMA	162.07	10	ePKP	20	02.40	2.5X
			e	20	07.80	
			e	20	29.90	
			e	20	38.70	
VBA	163.48	88	iPKPd	20	03.50	2.6X
			e	20	36.20	
			e	20	56.50	
LPA	165.40	73	iPKP+	20	04.00	1.4
	Z 20s	148.00um				
	S.D. = 1.2 on 590 of 685 obs.					

JUN 01, 1983 01h 59m 54.67± 0.05s
17.035 S ± 1.8km 174.601 W ± 1.4km
DEPTH = 179.6km (41 depth phases)
6.3mb (67 obs.)
TONGA ISLANDS (173)
Felt (II) at Apia, Samoa Islands.

AFI	4.13	42	iPd	00	53.50	-4.6X
			S	01	24.00	
NUE	4.89	115	iP	01	03.70	-4.2X
			S	01	58.00	
MBU	6.39	270	iPc	01	32.10	4.4X
SVA	6.71	260	ePc	01	36.20	4.4X
BQA	7.05	258	iPc	01	41.70	5.3X
NDF	7.62	263	iP	01	40.00	-4.0X
RAO	12.54	193	P	02	46.10	-1.8
RAR	14.61	109	P	03	11.00	-3.2X
			S	05	51.00	
PVC	16.33	265	iPd	03	38.00	2.7
			iS	06	51.50	
NOU	18.59	251	iPd	03	59.60	-1.2
			iS	07	28.20	
CRZ	20.74	211	P	04	27.00	4.5X
			e	04	59.00	
KRP	22.55	201	P	04	41.00	0.9
			S	08	39.00	
AFR	23.70	95	iP	04	50.40	-1.1
	1.6s	905.00nm			6.1mb	
PAE	23.89	95	iP	04	52.20	-1.0
	1.6s	1900.00nm			6.4mb	
			epP	05	28.00	183km
PPT	23.90	95	iP	04	52.40	-0.9
	1.6s	2290.00nm			6.5mb	
			epP	05	28.00	182km
MNG	25.02	198	P	05	02.70	-0.9
			S	09	15.00	
PMO	25.74	89	iP	05	09.20	-1.2
	1.6s	1720.00nm			6.5mb	
			epP	05	44.00	172km
WEL	25.85	199	P	05	11.00	-0.2
			PP	06	04.00	
			S	09	22.00	
HNR	25.88	284	eP-	05	10.00	-1.7
			ePP	06	10.00	
			eS	09	20.00	
			eLQ	10	20.00	
VAH	25.96	90	iP	05	11.00	-1.4
	1.6s	1340.00nm			6.4mb	
			epP	05	46.00	173km
TPT	26.01	89	iP	05	11.60	-1.2
	1.6s	1530.00nm			6.4mb	
			epP	05	46.00	169kmX
SVO	26.10	284	eP	05	18.00	4.3X
RUV	26.21	90	iP	05	13.30	-1.3
	1.6s	1340.00nm			6.4mb	
			epP	05	48.00	171km
MSZ	31.23	204	P	05	58.00	-1.1
COO	33.35	240	iPd	06	17.30	-0.5
	0.6s	875.00nm			6.6mb	
ALOT	34.56	277	eP	06	28.50	0.3
RAB	34.99	288	iPd-	06	29.60	-2.2
CAN	37.13	234	iPd	06	48.60	-1.1
			i	07	02.70	54kmX
LMG	37.13	278	eP	06	51.00	1.0
CTA	37.18	259	iP	06	49.00	-1.2
	1.0s	359.00nm			6.0mb	
			i	07	45.00	270kmX
			i	08	27.00	
			i	09	07.00	

01d 02h

			iS	12	19.00		TKSJ	70.46	316	P	10	51.30	-0.2				iS	20	46.00		
			i	13	30.00		HOOJ	70.71	328	P	10	53.60	0.8				eScS	21	17.00		
YOU	37.27	235	iPd	06	49.90	-1.0	KUR	70.73	333	iPd	10	53.00	0.2	LGBM	75.65	38	iPc	11	23.50	1.6	
WAM	37.52	232	iPd	06	52.40	-0.5		1.0s	1150.00nm			6.6mb					pP	12	06.00	175km	
RKT	37.62	106	iP	06	54.40	0.6				epP	11	34.00	170km				e	12	29.50		
PMG	37.94	277	iPd	06	52.00	-4.6X				esP	11	58.00		GLA	75.73	48	iPd	11	22.50	0.2	
CMS	38.62	241	iPd	07	01.50	-0.6				eScS	20	40.00					pP	12	06.50	181km	
LAT	38.90	281	iPc	07	06.00	1.5	WAJ	70.80	321	P	10	55.00	1.6	MNA	76.40	42	ePd	11	26.00	-0.1	
MOM	40.21	288	iPc	07	16.10	0.8	AOMJ	70.94	325	P	10	54.70	0.5				epP	12	09.00	177km	
HPO	40.49	28	ePd	07	17.20	-0.2	KAGJ	70.98	312	P	10	55.20	0.5	KDC	76.73	12	iPd	11	26.80	-0.4	
MDG	40.51	282	eP	07	18.00	0.3	TRT	71.35	267	iPd	10	57.40	0.1	COR	77.07	35	iPd	11	29.00	-0.3	
TOO	40.55	232	iPd	07	17.10	-0.8		1.2s	2010.00nm			6.8mb		QZH	77.30	301	iPd	11	33.00	2.0	
	0.4s	345.00nm			6.3mb		YONJ	71.57	317	P	10	58.50	0.4				S	21	13.50		
HON	41.44	24	eP	07	25.40	0.1	HAK	71.61	326	P	10	59.00	0.8	VLA	77.39	323	iPd	11	32.00	0.9	
KIP	41.53	24	eP	07	25.60	-0.4	SHK	71.69	316	iPd	10	58.70	-0.2				isP	12	36.00		
OPA	41.78	23	eP	07	23.60	-4.4X	HIR	71.75	316	P	10	59.00	-0.2				eS	21	12.00		
STK	42.24	241	iPd	07	31.80	0.1	MRRJ	71.88	327	P	10	59.90	0.2				iPS	22	08.00		
MCQ	42.60	203	eP	07	35.00	0.7	BAG	72.01	294	iPd-	11	01.00	-0.2	SSE	78.03	308	Pd	11	35.00	0.1	
BFD	42.66	233	iPc	07	34.60	-0.5				e	12	01.00	257kmX		1.5s	329.00nm			5.8mb		
WWW	43.08	283	eP	07	38.00	-0.8				eS	20	06.00					eSKS	21	25.00		
ADE	45.17	237	iPd	07	55.20	0.0	KKM	72.08	282	eP	11	01.20	-0.5				eScS	21	32.00		
	1.2s	247.00nm			5.6mb			0.9s	325.00nm			6.1mb		BFW	78.34	33	iPc	11	36.30	-0.1	
GUA	50.21	305	eP-	08	34.50	0.0	SKR	72.16	341	eP	11	04.40	3.1X	EUR	78.40	42	iP	11	36.20	-1.0	
	1.3s	1250.00nm			6.4mb			1.5s	4060.00nm			6.9mb		SHW	78.67	34	eP	11	38.00	-0.3	
		eS	15	42.00						ePcP	11	12.00		PHC	79.12	28	iPd	11	40.50	0.1	
GUMO	50.28	305	eP-	08	35.00	0.1				epP	11	46.20	173km		1.0s	490.00nm			6.2mb		
PJG	50.28	305	e(P)	08	35.30	0.3				esP	12	04.80		GMW	79.25	33	eP	11	40.40	-0.8	
MTN	52.47	267	eP	08	50.00	-1.4				ePP	13	52.00		LON	79.26	34	iPd	11	40.60	-0.8	
KNA	54.18	263	eP	09	03.00	-1.0				eS	20	14.40					pP	12	33.00	217kmX	
WBN	55.06	250	iPd	09	09.00	-1.2	SAP	72.20	328	P	11	03.00	1.4				e	14	40.00		
AAI	57.61	277	eP	09	27.60	-0.8	ASAJ	72.31	329	P	11	03.10	0.9	MDJ	79.62	323	Pd	11	43.00	-0.2	
	1.0s	790.00nm			6.5mb		SHNJ	72.50	315	P	11	02.60	-1.0				pP	12	29.00	189km	
DRV	57.68	200	iPd	09	27.50	-0.6	SUT	72.57	327	P	11	03.70	-0.1				sP	12	50.00		
KLG	59.34	244	iPd	09	38.30	-1.9	SPA	73.07	180	iPc	11	07.10	0.4				eS	21	19.00		
	1.0s	105.00nm			5.6mb			1.0s	195.00nm			5.8mb					ScS	21	36.00		
SBA	61.54	184	iP	09	56.00	1.6	Z	18s	2.61um			5.6Msz					PS	22	27.00		
MBL	61.72	255	iPc	09	45.20	-11.2X	SDN	73.08	8	iPd	11	05.20	-1.2				sS	22	32.00		
	1.0s	1480.00nm					NWRM	73.44	40	ePd	11	08.70	-0.2	PGC	79.63	32	eP	11	43.40	0.3	
MEK	62.20	249	eP	09	58.00	-1.6	PHAM	73.44	43	iP	11	09.00	-0.1	BKU	79.77	44	iPd	11	44.50	0.0	
	0.6s	77.00nm			5.7mb		PRI	73.45	43	ePd	11	09.70	0.5	MCW	79.96	32	eP	11	45.00	0.0	
KLB	62.46	243	iPc	10	00.00	-1.2				epP	11	52.50	177km				epP	12	29.00	179km	
	1.0s	390.00nm			6.2mb		BKS	73.48	41	ePd	11	09.00	-0.2	PNO	80.23	36	iPd	11	46.30	-0.2	
NWAO	62.82	241	iPd	10	02.80	-0.8		0.8s	50.00nm			5.3mb		NJ2	80.24	308	iPd	11	48.00	1.2	
BAL	63.43	244	iPd	10	06.40	-1.2				epP	11	51.50	176km	MSU	80.39	45	iPc	11	48.30	0.5	
MUN	63.75	242	eP	10	08.00	-1.7				esP	12	11.00		SIT	80.75	21	ePd	11	49.00	0.1	
DAV	63.80	287	eP	10	10.00	-0.1				iS	20	27.50		DUG	80.84	43	iPc	11	49.50	-0.5	
NAU	65.48	253	iPd	10	20.20	-0.7				eSKS	20	54.00					pP	12	31.00	168kmX	
	0.4s	160.00nm			6.2mb					e	21	07.50					e	14	56.70		
MKS	65.49	272	iPd	10	21.00	-0.1				e	21	49.80		GZH	80.91	297	iPd	11	52.00	1.5	
	1.2s	457.00nm			6.2mb					ePKKP	28	56.00					sP	12	57.40		
HJJ	66.20	319	P	10	25.00	-0.2	PET	73.49	344	iPd	11	08.00	-0.9	PMR	80.95	12	eP	11	49.30	-0.5	
KYS	67.39	321	iPd	10	32.60	0.0		2.0s	2470.00nm			6.6mb			1.2s	625.00nm			6.2mb		
KTJ	67.86	320	P	10	34.80	-0.8				esP	12	06.00		TTA	81.03	8	ePd	11	50.90	0.6	
AJI	67.92	320	P	10	34.00	-1.9				eS	20	24.00		CN2	81.60	321	iPd	11	55.30	1.7	
TK01	68.03	318	P	10	36.60	0.4	MHC	73.53	42	ePd	11	10.00	0.3				epP	12	37.00	168kmX	
TK02	68.04	319	P	10	37.00	0.6				epP	11	53.30	179km				sP	13	01.00		
TK03	68.05	319	P	10	36.60	0.0	ARN	73.61	42	iPc	11	10.30	0.3	PCA	81.73	17	eP	11	57.80	3.7X	
KAKJ	68.05	322	P	10	36.40	-0.3				epP	11	53.50	179km	MGD	81.80	343	iPd	11	53.00	-1.3	
OYM	68.08	321	iPd	10	35.30	-1.7	SLD	73.64	42	iPc	11	10.40	0.2		1.0s	370.00nm			6.1mb		
TSk	68.09	322	iPd	10	36.40	-0.6	PAS	73.98	46	iPd	11	12.00	-0.2				esP	12	58.00		
OMA	68.18	319	P	10	37.00	-0.5	FHC	74.26	38	ePd	11	14.30	0.6				ePP	15	03.00		
SRY	68.19	321	iPd	10	36.30	-1.3	YSS	74.40	331	iPd	11	15.00	0.7				eS	21	50.00		
TK04	68.25	319	P	10	38.60	0.8		1.7s	680.00nm			6.1mb					ePS	23	06.00		
SHZ	68.30	320	P	10	38.00	-0.3	Z	17s	1.50um			5.4MszX					ePPS	23	34.00		
DDR	68.50	321	iPd	10	39.20	-0.4				epP	12	01.00	191kmX	MOUT	81.95	43	iPd	11	55.60	-0.4	
ADK	68.65	359	iPd	10	38.80	-1.2				esP	12	18.00		PNT	82.01	33	eP	11	55.00	-0.7	
CHJJ	68.65	321	P	10	40.10	-0.3				ePP	14	04.00			1.2s	595.00nm			6.2mb		
IIDJ	68.94	320	P	10	42.00	-0.2				eS	20	36.00		CRX	82.02	67	ePc	11	58.10	1.4	
SHJ	69.00	317	P	10	42.80	0.2				eSPP	21	15.00		BEI	82.49	42	ePd	11	58.70	0.1	
OWA	69.11	318	P	10	43.00	-0.2				ePS	21	30.00		IIC	82.52	67	ePc	12	00.30	1.0	
BKB	69.15	275	iPc	10	46.10	2.2	RMT	74.48	39	ePc	11	15.30	0.4	IIP	82.68	67	ePc	12	01.80	1.7	
MIY	69.43	325	P	10	45.00	0.0	FRI	74.57	43	ePd	11	15.70	0.2	NEW	82.70	35	iPd	11	58.70	-0.6	
NIIJ	69.44	322	P	10	45.00	-0.2	JAS	74.66	42	ePd	11	15.80	-0.3	ALQ	82.73	50	eP	11	59.70	-0.3	
MAT	69.45	321	iPd	10	45.00	-0.3				epP	11	59.40	180km		0.9s	321.00nm			6.1mb		
	2.0s	1760.00nm			6.5mb					ePP	14	03.00			Z 18s	2.75um			5.7Msz		
		eS	19	40.00			WKTM	74.72	44	iPc	11	16.30	-0.2				epP	12	43.00	175km	
YAMJ	69.48	323	P	10	45.10	-0.3	ORV	74.97	40	iPd	11	17.30	-0.5	ANMO	82.73	50	iPd	12	00.20	0.2	
WKYJ	69.60	318	P	10	46.70	0.4				pP	12	59.90	470kmX				e	12	45.00	182km	
MTMJ	69.73	321	P	10	46.00	-1.1	WDC	74.97	38	ePd	11	17.70	0.0	KGM	83.02	274	ePd	12	03.00	1.4	
TKY	69.78	320	P	10	47.00	-0.4				epP	12	01.50	181km		0.9s	338.00nm			6.1mb		
NKI	69.86	4	eP	10	45.70	-1.7	SDW	74.99	46	iPd	11	17.30	-0.8	TMI	83.02	41	ePd	12	00.80	-0.5	
MRK	69.90	325	P	10	48.00	0.0	ANP	75.03	303	eP	11	20.00	1.5	WHN	83.06	305	iPd	12	02.50	1.1	
SUM	70.11	317	P	10	50.30	0.9	MIR	75.48	204	iPd	11	20.00	-0.2				sP	13	08.50		
SMY	70.16	353	ePd	10	48.00	-1.2		1.5s	30.00nm			4.8mb	X				PP	15	14.00		
TSRJ	70.18	319	P	10	51.00	1.3				ePcP	11	35.00		IIT	83.10	68	ePc	12	03.60	1.4	
HJH	70.20	324	P	10	49.00	-0.8				epP	12	05.00	186km	TLX	83.34	67	eP	12	04.80	1.4	
AIK	70.41	322	P	10	51.00	-0.1				ePP	14	12.00		TIA	83.39	311	Pd	12	03.90	0.9	

01d 02h

			S	22	10.00			INK	90.12	14	eP	12	34.00	-0.9		RSON	97.43	39	eP	13	06.20	-2.5	
			sS	23	35.00				1.3s	801.00nm				6.5mb					epP	13	54.60	194kmX	
LHD	83.55	35	iPd	12	03.30	-0.4					pP	13	18.00	175km					ePP	17	01.50		
CLX	83.76	35	iP-	12	04.50	-0.4		YAK	90.13	337	iPd	12	33.60	-1.4		IRK	97.97	322	ePd	13	11.00	-0.1	
SEY	83.76	345	iPd	12	04.40	0.1			2.0s	1080.00nm				6.5mb			1.9s		110.00nm			6.0mb	
	2.2s	3160.00nm				6.7mb					iSKS	22	48.50			Z	19s		2.09um			5.6Msz	
			epP	12	49.10	181km					iS	23	03.90						ePP	17	07.50		
			esP	13	10.50			TUP	90.26	328	iPd	12	36.70	1.0					ePPS	26	54.00		
			eS	22	10.00				2.2s	940.00nm				6.4mb		ZAK	98.03	320	iPd	13	11.50	0.2	
			eSP	23	09.50			BTO	90.28	313	eP	12	37.20	0.8			2.0s		110.00nm			6.0mb	
			eSPP	23	26.50			FMTX	90.47	57	iP	12	37.60	0.3					epP	14	00.80	198kmX	
LDM	83.80	35	iPd	12	04.50	-0.4		SIO	90.65	53	iPd	12	38.00	-0.1					ePP	17	11.00		
VHO	83.89	70	iP	12	07.00	0.9		KMI	90.69	296	iP-	12	42.00	3.3X					eSKS	23	34.00		
IMW	83.93	41	iPd	12	06.40	0.4			3.0s		4.50nm			4.0mb X					ePPS	27	00.00		
LRM	84.01	38	ePd	12	06.40	0.2					sP	13	40.00			MBC	98.75	11	iPd	13	13.60	-0.6	
RXF	84.13	35	iPd	12	06.30	-0.3					PP	16	18.00				1.0s		100.00nm			6.2mb	
COL	84.21	11	iPd	12	06.20	-0.3					SKS	23	10.00			RSCP	98.94	56	eP	13	15.20	-0.7	
Z	21s		2.87um			5.6Msz					S	23	22.00			LHC	99.51	42	eP	13	16.50	-1.7	
			iS	22	16.00			SYO	90.80	192	iP	12	38.10	-0.1					pP	14	02.50	184km	
BDW	84.24	42	iPd	12	06.70	-0.8		TUL	91.10	53	iPc-	12	40.20	0.1		FCC	99.57	31	iPd	13	17.50	-0.7	
			pP	12	52.20	184km			1.3s	214.00nm				6.1mb		MOY	99.78	321	ePd	13	19.80	0.5	
			ePP	15	21.40			Z	18s		3.47um			5.8Msz			2.2s		270.00nm			6.3mb	
ILT	84.74	358	iPd	12	09.00	0.0					eSKS	23	00.00			LPB	100.27	111	Pdiffc	13	26.20	3.3X	
	2.0s	2000.00nm				6.5mb		LNV	91.12	126	iPd	12	41.80	1.5					e	16	52.00		
			isP	13	15.00			BHO	91.30	54	iP	12	40.80	-0.2		LSA	101.84	298	Pdiffd	13	30.90	1.2	
			iS	22	14.00				1.2s	116.00nm				5.8mb					PP	17	41.90		
			iPS	23	36.00			BDT	91.62	287	iPd	12	44.00	1.2		UTO	101.87	50	ePdiff	13	34.00	5.1X	
KLM	84.94	275	ePc	12	12.00	0.8			1.0s	578.00nm				6.6mb		NAV	103.08	55	e(Pdif	13	35.60	1.1	
LUB	85.60	53	eP	12	14.00	-0.2		CD2	91.68	302	P	12	44.80	1.9		BLA	103.36	55	ePdiff	13	36.00	0.3	
GOL	85.61	46	iPd	12	14.60	0.2					sP	13	51.00				Z 20s		2.31um			5.7Msz	
	1.0s	153.00nm				5.8mb					eSKS	23	00.00						eS	24	02.40		
			pP	12	55.83	165kmX		CHCH	91.72	126	iPc	12	46.00	2.8		SDV	105.83	85	ePKP	18	01.30	1.8	
GLD	85.74	46	iPc	12	15.10	0.2		RLO	91.78	53	iPd	12	43.30	0.1		PKI	106.34	294	ePdiff	13	50.50	0.9	
	1.0s	140.00nm				5.7mb		PCH	91.94	126	iPc	12	45.50	1.2			0.9s		16.00nm			6.1mb	
			pP	12	59.00	176km		PEL	91.98	125	iPd	12	46.00	1.6		KKN	106.50	295	ePdiff	13	51.00	0.9	
			e	15	34.00			RSNT	92.05	24	iPc	12	43.70	-0.1			0.9s		28.00nm			6.4mb	
BJI	85.76	314	Pd	12	15.00	0.3					ipP	13	31.00	190km		DMN	106.61	294	ePdiff	13	52.00	1.3	
			pP	12	56.00	164kmX					iPP	16	24.70				0.8s		23.00nm			6.4mb	
			sP	13	14.00			YKA	92.05	24	eP	12	44.80	1.0		OTT	108.10	47	ePKP	18	02.00	-0.6	
			eS	22	24.00			BACH	92.06	126	iP	12	46.50	1.7		NRI	108.38	338	iPdiff	13	56.00	-1.2	
			sS	23	43.00			YKC	92.09	24	iPd	12	43.90	-0.1			2.0s		30.00nm			6.2mb	
MAW	85.88	199	iPc	12	16.00	1.1			1.0s	135.00nm				6.0mb					eSP	27	32.00		
	0.9s	22.00nm				5.0mb X					pP	16	25.50			ELT	108.90	321	ePdiff	13	57.80	-2.0	
IPM	85.96	276	ePd	12	17.60	1.3		LQT	92.10	126	iP	12	48.20	3.1X			2.0s		60.00nm			6.5mb	
	0.9s	444.00nm				6.3mb		CHTO	92.14	289	P	12	47.00	1.8		HYB	110.57	283	ePKP	18	07.00	-1.1	
			e	13	03.90	187km		FCH	92.22	126	iPd	12	48.00	2.1			1.2s		71.40nm				
JCT	86.01	57	iPd	12	16.10	-0.1					i	13	33.00	179km					e	18	45.00		
	1.0s	300.00nm				6.1mb		JACH	92.23	125	iPd	12	47.40	1.8		NVS	110.70	323	iPdiff	14	08.00	0.2	
Z	18s		2.41um			5.6Msz		NVL	92.31	182	iP	12	45.00	-0.1			2.1s		100.00nm				
			i	13	02.00	185km					epP	13	27.00	166kmX					iSKS	24	31.00		
SNG	87.12	278	iP	12	24.00	2.1					esP	13	45.00			GBA	110.79	278	PKP	18	07.60	-0.9	
	1.0s	620.00nm				6.4mb					eSKS	23	00.00				0.8s		3.50nm				
			iS	22	44.00						eS	23	29.00			FRB	112.24	27	ePdiff	14	16.00	1.6	
SES	87.19	35	eP	12	21.00	-0.5		RFA	93.07	128	ePd	12	50.80	1.4		SEM	112.56	318	iPKP	18	09.80	-1.1	
	1.0s	688.00nm				6.5mb		LZH	93.26	307	Pd	12	51.50	1.2					epPKP	18	50.50		
TIY	87.43	311	Pd	12	24.70	1.7					SKS	23	09.00						eSKS	24	36.90		
			PP	15	45.50						S	23	41.00						eSPP	29	26.80		
EDM	87.47	32	iPd	12	22.20	-0.6		NNA	93.80	104	eP	12	55.70	2.7		NDI	113.66	294	iPKPd	18	12.50	-1.3	
	1.0s	537.00nm				6.4mb			1.7s	115.00nm				5.8mb		SCH	114.01	37	ePKP	18	12.10	-1.6	
			pP	13	08 00	184km		FFC	94.09	34	ePd	12	52.50	-0.9		TLG	114.52	310	ePKP	18	14.50	-0.6	
ATX	87.50	57	iP	12	24.00	0.6			2.0s	420.00nm				6.3mb			2.4s		80.00nm				
GYA	87.79	298	Pd	12	27.00	2.0					pP	13	37.00	177km					iPP	19	13.50		
			pP	13	11.00	176km		OLY	94.30	54	ePd	12	54.50	-0.3					ePS	28	54.50		
			sP	13	30.50			BOD	94.66	329	iPd	12	56.40	0.4					eSPP	29	53.50		
			S	22	40.00				1.3s	130.00nm				6.0mb		VAO	115.16	126	ePKP	18	16.50	-0.4	
TSI	87.99	274	ePd	12	28.20	2.1		POW	94.72	54	ePc	12	56.70	0.0					e	19	17.00		
RSSD	88.44	43	ePc	12	27.50	-0.4		ANT	95.65	117	eP	13	10.00	8.6X		POO	115.17	283	ePKP	18	16.00	-1.0	
			pP	13	11.10	174km					epPP	13	45.00			NRN	115.52	308	iPKP	18	17.10	-0.3	
PCT	88.65	286	iPd	12	32.20	3.1X					eS	24	10.00						eSKS	24	53.00		
	1.6s	173.00nm				5.8mb		FVM	95.84	52	iPc	13	01.60	-0.2		FRU	116.55	310	ePKP	18	17.00	-1.9	
XAN	88.65	306	iPd	12	30.10	1.2			1.2s	229.78nm				6.4mb			2.0s		220.00nm				
			sP	13	36.00						epP	13	46.80	180km			Z 20s		1.60um			5.6Msz	
			iSKS	22	42.50						ePP	16	53.70				E 20s		1.50um				
ACO	88.86	51	ePd	12	29.00	-0.8		LST	95.95	54	e(P)	13	02.50	0.2					isPKP	19	20.00		
	1.1s	484.00nm				6.4mb		GRT	96.11	54	eP	13	03.70	0.6					iSPP	30	10.00		
			e	13	15.00	184km		TIK	96.25	345	ePd	13	02.50	-0.4		RDJ	118.07	128	ePdiff	14	50.00	8.7X	
RRO	88.99	52	eP	12	30.60	0.2			1.0s	190.00nm				6.4mb		BAO	118.14	119	PKP	18	27.90	5.1X	
	0.8s	55.40nm				5.6mb		ELC	96.55	53	ePd	13	05.10	0.1		ANR	118.28	307	iPKPd	18	22.00	-0.2	
			e	13	17.40	188km					epP	13	50.20	180km			2.0s		400.00nm				
HKT	89.02	58	iP	12	31.50	0.9		PWLA	96.82	56	ePd	13	06.10	-0.2		KHO	118.97	304	ePKP	18	12.00	-11.9X	
HHC	89.29	313	Pd	12	33.40	1.6					epP	13	50.90	178km					eSKS	25	08.00		
ATO	89.30	52	eP	12	31.20	-0.6		ARE	97.25	110	eP	13	11.00	2.0		DAG	118.97	6	iPKPd	18	20.30	-2.2	
			e	13	15.80	178km		GTA	97.30	309	iPd	13	09.40	0.9			0.6s		11.30nm				
OCO	89.69	53	ePd	12	32.80	-0.8					pP	13	58 00	195kmX					i	19	40.00		
			e	13	18.90	185km					sP	14	15.00			KUL	120.38	304	ePKP	18	26.30	0.0	
LPS	89.87	75	eP	12	36.00	1.1					PP	17	05.00				2.2s		700.00nm				
			eS	22	53.00						SKS	23	30.50						epPKP	19	14.20		

01d 02h

TAS	120.57	30B	ePKPd	18	26.50	-0.1		0.5s	52.00nm						ePP	22	21.00						
	2.5s	1000.00nm					BPI	131.74	208	ePKP	18	46.50	-2.2	ETA	143.26	12	iPKPc	19	07.70	-1.1		
	Z 36s	1.30um				5.3MszX	CAI	131.88	116	iPKPd	18	48.50	-0.5		2.0s	720.00nm						
		ePP	19	50.50						e	18	50.40		ARO	143.34	266	ePKPd	19	07.00	-3.1X		
		eSKS	25	10.50						e	19	36.80		ECB	143.46	13	iPKPc	19	06.90	-2.2		
		ePS	29	40.00			SWZ	131.98	204	PKP	18	48.00	-1.0	HAM	143.47	355	iPKPd	19	06.30	-2.8X		
		eSPP	30	46.50			SLR	132.01	208	ePKP	18	49.50	0.4	GBR	143.62	266	ePKP+	19	10.00	-0.6		
DSH	121.12	305	iPKPd	18	28.10	0.3				i	19	32.00		DAF	143.66	266	ePKP+	19	10.60	0.0		
		eSKS	25	04.50			PRE	132.03	208	ePKP	18	49.50	0.3	ECP	143.72	12	iPKPc	19	07.70	-1.8		
SAM	122.44	306	ePKP	18	29.70	-0.5	SUF	132.12	347	iPKP	18	33.40	-14.6X		2.4s	2200.00nm						
	2.0s	1600.00nm						0.5s	4.70nm					HLD	143.75	266	iPKP+	19	10.80	0.1		
		epPKP	19	21.00			KSR	132.51	207	e(PKP)	18	46.10	-4.0X	LVV	144.00	339	ePKPd	19	08.00	-2.1		
		iPP	20	08.80			PUL	133.64	343	ePKP	18	51.00	0.1		Z 20s	2.20um				5.9Msz		
		ePPP	22	42.00						epPKP	19	38.00			N 20s	1.50um						
		eSKS	25	09.00						ePP	21	18.00			E 20s	1.50um						
		eSP	29	36.00						eSKS	25	35.00				ePP	22	30.00				
QUE	122.70	295	iPKPd	18	31.70	0.5				eSP	31	22.00				eSKS	26	01.00				
	1.2s	2200.00nm					MOS	134.25	335	iPKPd	18	53.00	0.8	BRL	144.10	352	ePKPd	19	08.50	-1.6		
SVE	122.90	327	ePKP	18	30.00	-0.5		2.0s	550.00nm					BRN	144.16	352	iPKPd	19	08.20	-2.1		
	2.2s	260.00nm					NUR	134.42	347	iPKP	18	37.00	-15.4X	WIT	144.29	359	iPKPd	19	09.90	-0.6		
		epPKP	19	20.00				0.8s	156.00nm								epPKP	20	00.00			
STJ	123.80	44	ePKP	18	31.00	-1.5				i	18	52.00		KIS	144.37	332	iPKPd	19	08.00	-2.8X		
ARU	124.10	327	iPKPd	18	32.70	-0.1				ipPKP	19	42.20			3.0s	2800.00nm						
	2.4s	700.00nm								ePP	21	24.00			Z 22s	1.90um				5.8Msz		
		ipPKP	19	22.30						iSKP	22	09.00				ipPKP	19	58.00				
		iPP	20	25.00						iPKS	22	22.00				iPP	22	32.00				
		ePPP	23	02.00						ipPKS	23	11.00		KVT	144.37	319	iPKP	19	10.40	-0.7		
		eSKS	25	22.00						e	34	24.00		IAS	144.80	333	ePKP	19	11.00	-0.6		
AVY	125.15	231	ePKPc	18	35.00	-1.3	OBN	135.07	335	ePKP	18	42.00	-11.8X	DBN	145.01	0	iPKP-	19	11.00	-0.7		
KEV	125.63	351	ePKP	18	29.00	-6.4X	OBN	135.07	335	iPKP	18	52.00	-1.8				i	19	15.00			
	0.8s	82.10nm						1.0s	150.00nm								epPKP	19	56.00			
		i	18	35.00				Z 22s	2.20um				5.8Msz				ePP	22	23.00			
		ipPKP	19	25.00				N 22s	1.60um								iSKKS	30	32.00			
		ePP	20	28.00				E 20s	0.80um								iPKKS	32	45.00			
		esPP	21	40.00						eSP	31	30.00					e	35	05.00			
		epPS	31	32.00			BAK	135.16	311	iPKPc	18	56.00	1.6				iSS	42	56.00			
		e	33	00.00						iPP	21	32.00		KRA	145.03	344	iPKPd	19	11.30	-0.6		
		eSSS	38	28.00			SHI	135.23	295	ePKP	18	44.00	-11.2X		1.1s	1560.00nm						
GRM	126.01	202	ePKP	18	43.30	5.9X	NB2	135.85	356	PKP	18	39.40	-15.8X		Z 22s	3.50um				6.1Msz		
APA	126.40	347	iPKP	18	35.80	-1.2		1.3s	117.00nm						N 22s	2.30um						
	1.0s	100.00nm					SHE	136.00	311	iPKP	18	57.00	1.0		E 22s	2.80um						
		epPKP	19	22.90			UPP	136.32	351	iPKP	18	42.00	-14.0X				i	19	14.20			
		iPP	20	30.80						i	18	56.20					i	19	21.50			
SOB1	127.32	116	iPKP	18	39.80	-0.6				i	21	29.30					i	19	25.20			
		e	18	42.10						i	22	27.20					i	19	33.40			
		e	18	50.30						i	23	17.30					i	19	52.00			
		e	19	06.30			HFS	136.54	354	(PKP)	18	42.00	-14.5X				i	21	04.00			
		i	19	29.70			BUL	136.59	213	PKP	18	46.00	-12.0X				i	22	28.00			
CER	128.16	195	iPKPc	18	41.00	-0.5	BUL	136.59	213	PKPd	19	00.00	2.0	WTS	145.10	358	iPKPd	19	11.40	-0.5		
KIR	128.31	353	ePKP	18	26.00	-14.6X				iSKP	22	33.00		KSP	145.16	348	iPKPd	19	12.00	-0.1		
MHI	128.67	303	iPKPd	18	42.40	0.0	GRO	137.01	316	iPKPd	18	58.00	0.1		1.2s	588.00nm						
	1.4s	298.00nm						1.0s	300.00nm								i	20	02.20			
		e	20	47.00						iPP	21	40.00		CLL	145.27	352	iPKP	19	11.90	-0.3		
		eS	32	02.00			KRV	137.63	312	iPKP	18	49.00	-10.2X		1.3s	2600.00nm						
SUR	128.70	197	ePKP	18	42.80	0.1	GRS	138.04	311	iPKPc	18	47.00	-13.2X				pPKP	20	01.00			
	0.8s	169.00nm					GRS	138.04	311	ePKP	19	01.00	0.8				sPKP	20	18.00			
HVD	128.84	202	ePKP	18	45.00	2.0				ipPKP	19	51.80		CLI	145.42	333	iPKPd	19	13.00	0.3		
AKU	128.92	12	iPKP	18	42.80	1.0				iPP	21	53.00		BIR	145.49	332	ePKP	19	16.00	3.2X		
	1.9s	400.00nm					MTA	138.29	314	iPKPc	18	55.80	-4.5X	PPE	145.54	332	iPKPd	19	13.50	0.6		
		i	19	32.30			PYA	138.41	318	ePKP	18	51.00	-9.5X	BRG	145.55	350	iPKPd	19	13.00	0.3		
ASH	129.34	305	iPKPc	18	44.00	0.5	TAB	138.53	309	ePKP	18	54.00	-7.1X		2.2s	2100.00nm						
		ePP	20	53.50			ERE	139.10	312	iPKPd	18	54.00	-8.0X				i	20	03.50			
REY	129.38	15	ePKP	18	44.20	1.5	BKR	139.15	315	iPKP	18	55.00	-7.1X	UZH	145.60	340	ePKPd	19	13.00	0.1		
VAN	129.54	305	ePKP	18	31.20	-12.7X	LEN	139.33	314	ePKP	19	02.00	-0.5		1.5s	5400.00nm						
VAN	129.54	305	ePKP	18	43.20	-0.7	MUD	140.54	357	iPKPc	18	56.30	-7.6X		Z 20s	1.20um				5.7Msz		
	2.0s	360.00nm						1.1s	100.00nm						N 20s	1.20um						
		ipPKP	19	32.00			SOC	140.73	320	ePKP	18	58.00	-6.7X				ePP	22	45.00			
		ePP	20	53.00				2.0s	400.00nm								eSKS	26	03.00			
		ePS	31	04.00			COP	141.05	354	iPKPc	18	58.00	-6.8X	SPC	145.73	343	iPKPd	19	14.30	0.9		
BLF	129.92	204	iPKPc	18	45.40	0.3		0.9s	128.00nm								i	20	04.00			
SEK	130.04	206	ePKP	18	45.00	-0.4	EKA	141.21	8	PKPc	18	58.60	-6.6X				e	21	18.10			
KJF	130.47	347	ePKP	18	29.00	-15.8X		1.2s	47.00nm								e	22	31.60			
	0.7s	54.70nm					ANN	141.46	323	ePKP	18	56.00	-9.9X	BMR	146.01	338	ePKP	19	14.00	0.4		
		i	18	43.00				9.0s	2700.00nm					CFR	146.07	331	iPKPd	19	14.00	0.3		
		ipPKP	19	35.00						ePP	22	08.00		MOX	146.10	353	iPKPd-	19	14.00	0.3		
		ePP	21	00.00						eSKS	25	54.50			2.0s	3820.00nm						
		iSKP	21	54.00			DMU	141.98	12	iPKPc	19	01.50	-5.1X		Z 18s	1.60um				5.8Msz		
		iPKS	22	07.50				1.0s	200.00nm						N 17s	0.60um						
		ipPKS	22	56.00			DCN	142.43	12	iPKPc	19	02.20	-5.1X		E 17s	0.70um						
		ePS	30	52.00				1.7s	660.00nm								ipPKP	20	05.00			
		e	34	56.00			DDK	142.58	12	iPKPc	19	03.60	-4.0X				iPP	22	35.00			
VIR	130.57	205	e(PKP)	18	47.00	0.7		1.3s	230.00nm					BNS	146.12	358	iPKPd	19	13.80	0.1		
KIM	130.78	203	ePKP	18	45.90	-0.8	DLE	142.63	12	ePKP	19	03.60	-4.1X		2.3s	6.30nm						
EVA	130.99	208	ePKP	18	47.00	-0.2		1.2s	310.00nm								i	20	05.20			
PRY	131.33	207	ePKP	18	34.50	-13.3X	VAL	143.03	16	PKP	19	02.00	-6.4X	VRI	146.20	333	iPKPc	19	13.00	-1.0		
		i	18	46.00						PPS	34	40.00		JOS	146.27	342	ePKPd	19	14.00	0.0		
BFS	131.64	206	iPKPc	18	48.30	-0.1	SIM	143.20	325	ePKPd	19	05.00	-3.9X	UCC	146.31	1	PKPc-	19	14.40	0.5		

01d 02h

			pPKP	20	06.00		CTT	148.84	325	iPKP	19	18.00	-0.3	STV	152.83	357	PKP	19	24.00	-0.3
			PP	22	42.00		ECH	148.87	358	iPKPd	19	17.40	-0.8	FIR	152.88	351	PKP	19	24.00	-0.2
PRU	146.31	349	iPKPd	19	14.00	0.0	PVL	149.02	331	iPKPd	19	19.00	0.5				PP	23	15.00	
Z	24s		2.10um			5.8MszX	SSR	149.04	337	ePKP	19	19.00	0.5				e	29	46.00	
N	24s		1.40um				HAU	149.10	359	iPKPd	19	18.80	0.2	FRF	153.54	358	ePKP	19	25.30	0.2
E	20s		0.70um				ALT	149.25	320	ePKP	19	19.10	-0.1	LRG	153.65	358	iPKPd	19	26.20	0.9
			ipPKP	20	05.00		SLE	149.25	356	ePKPd	19	18.50	-0.3	ATH	153.66	326	iPKPd	19	25.00	-0.5
			PP	22	36.00		BAF	149.26	358	iPKPd	19	18.50	-0.4	EPF	153.73	8	ePKP	19	26.30	0.8
			PKS	23	34.00		BSF	149.27	358	ePKP	19	19.20	0.3	POI	153.74	347	PKP	19	25.00	-0.4
			SKKS	30	26.00		KBA	149.33	349	PKPd	19	18.00	-1.1	LMR	153.77	358	ePKP	19	25.80	0.4
			e	37	00.00			0.7s	280	.00nm				AQU	153.85	346	PKP	19	26.00	0.3
			SS	42	28.00					e	19	22.70					e	23	12.00	
AAR	146.35	334	iPKPd	19	11.50	-2.8X				i	19	26.30		MNS	153.98	348	PKP	19	25.00	-0.7
ENN	146.35	359	iPKPd	19	14.10	0.1				i	20	13.90					e	23	14.00	
			i	19	15.60					e	22	37.60		FOG	154.15	342	PKP	19	39.50	13.5X
			i	19	19.90					i	23	08.30		DUI	154.25	344	PKP	19	26.50	0.4
			ipPKP	20	06.00		ZUL	149.54	356	ePKPd	19	18.80	-0.5	LCI	154.36	337	PKP	19	27.00	0.7
			e	22	13.00		EDC	149.71	325	iPKPd	19	19.00	-0.7				e	23	27.00	
HOF	146.40	352	iPKPd	19	14.20	0.0	MFT	149.72	326	iPKP	19	19.50	-0.3	CVF	154.38	354	iPKPd	19	26.70	0.3
AAE	146.58	260	ePKP	19	14.50	-1.4	DST	149.77	323	iPKPd	19	19.70	-0.2	NPS	154.42	319	ePKP	19	27.50	0.9
TLB	146.58	330	iPKPd	19	15.00	0.4	LOR	149.82	2	iPKPd	19	20.30	0.6	RMP	154.52	347	PKPd	19	26.00	-0.5
CJR	146.79	337	ePKP	19	14.50	-0.5	OGA	149.89	352	iPKPd	19	20.30	0.3				e	23	20.00	
MLR	146.83	333	iPKPd	19	14.00	-1.2	RBL	149.90	349	PKP	19	20.00	0.1				e	26	08.00	
ISR	146.85	332	iPKPc	19	15.00	-0.1	SSF	150.02	3	iPKPd	19	20.60	0.7	RDP	154.57	347	PKP	19	27.00	0.3
MDB	146.96	335	iPKPd	19	16.00	0.8	KDZ	150.08	329	iPKPd	19	19.00	-1.2				e	19	50.50	
PSZ	146.98	342	ePKPd	19	15.00	-0.3	LJU	150.09	347	iPKPd	19	20.20	0.1				e	23	26.50	
DOU	147.01	1	PKP-	19	15.60	0.5				i	19	25.60		SGO	155.04	342	PKP	19	27.00	-0.2
			i	19	17.80					i	20	10.60					e	23	22.00	
			pPKP	20	07.70					e(PP)	23	44.10		VLS	155.07	331	ePKP	19	27.50	0.1
			PP	22	48.00		LLS	150.10	355	ePKPd	19	20.30	0.0	ORI	155.14	340	PKP	19	27.00	-0.3
			SS	41	47.00		MFF	150.16	8	iPKPd	19	20.70	0.6	EBR	155.92	9	ePKP	19	24.00	-4.4X
GRF	147.09	353	iPKPd	19	15.60	0.3	AVF	150.28	3	iPKPd	19	20.50	0.2				ePP	23	30.00	
Z	24s		1.30um			5.6MszX	VTS	150.33	333	iPKPd	19	20.00	-0.5	GIB	157.80	342	PKP	19	34.00	3.0X
			e	19	22.90		CEY	150.40	347	iPKPd	19	20.50	-0.1	SFS	158.09	26	iPKPd	19	34.00	2.8X
			e	20	07.20		SMF	150.45	2	ePKP	19	21.10	0.5				e	20	10.00	
GRFO	147.09	353	ePKPd	19	15.00	-0.3	BGF	150.49	4	iPKPd	19	21.10	0.5				ePP	23	44.00	
ANTO	147.10	319	PKP	19	16.00	0.3	TRI	150.57	348	iPKP	19	20.50	-0.3				e	27	08.00	
KHC	147.30	350	iPKPd	19	15.80	0.1				i	20	12.10					eSKS	34	15.00	
Z	23s		2.50um			5.9MszX				eSKP	22	55.40					e	38	20.00	
N	21s		2.10um							e	24	04.00		ALI	158.14	13	iPKP+	19	33.50	2.3
E	22s		1.90um							eSKS	33	16.00					iPP	23	47.50	
			e	19	32.50					e	34	16.00		ERC	158.14	345	PKP	19	31.50	0.3
			pPKP	20	05.00					eSPP	37	28.00					e	23	45.00	
CMP	147.40	334	iPKPc	19	16.00	0.0				e	38	22.00		MEI	158.17	339	PKP	19	31.20	-0.1
WET	147.40	351	iPKPd	19	15.90	0.1				eSS	43	24.00					e	23	42.00	
WLF	147.45	359	PKP-	19	18.00	2.2				esSS	44	10.00		ALM	159.07	18	iPKPd	19	32.70	0.4
			pPKP	20	10.00					eSSS	49	36.00			1.5s		6.10nm			
			PP	22	48.00		CTI	150.61	351	PKP	19	20.50	-0.5				i	20	10.90	
			i	43	40.00					e	19	26.50					i	21	01.50	
ZST	147.48	345	iPKPc	19	15.40	-0.5				e	23	05.00		KIC	165.48	136	iPKPd	19	39.00	-0.3
			i	20	06.90		LSF	150.69	5	iPKPd	19	21.10	0.1				i	20	29.00	
			i	20	46.90		TCF	150.71	5	iPKPd	19	21.40	0.4		S.D. = 0.9		on 461 of 529 obs.			
SRO	147.52	344	iPKPd	19	14.20	-1.8	ELL	150.76	317	iPKPd	19	21.00	-0.5							
			i	20	03.10		MZF	150.81	4	iPKPd	19	21.90	0.7		JUN 02, 1983 20h 12m 50.26± 0.06s					
			i	21	13.20		TMA	150.87	355	ePKPd	19	21.10	-0.4		9.501 S ± 1.4km			71.219 W ± 1.9km		
			i(PP)	22	48.20		MMK	150.99	356	ePKPd	19	22.20	0.5		DEPTH = 592.6km		(57 depth phases)			
VKA	147.59	346	iPKPd	19	16.40	0.3	DIX	150.99	357	ePKPd	19	22.50	0.7		5.9mb (97 obs.)					
	2.3s	3260	.00nm				SAL	151.19	353	PKP	19	21.50	-0.2		PERU-BRAZIL BORDER REGION					(112)
			i	19	22.20					e	19	28.50								
			i	20	05.80					e	22	38.00		HUA	4.76	238	iPc	14	23.70	1.9
			i	20	09.30		PRK	151.35	325	ePKP	19	22.00	-0.1				iS	15	35.00	
			e	26	32.30		IZM	151.37	322	iPKPd	19	22.10	-0.2	NNA	6.05	245	iPc	14	32.80	0.7
			e	26	50.80		ORO	151.41	356	PKP	19	21.50	-0.7		0.9s	555	.00nm			5.6mb
BUD	147.63	343	iPKPd	19	15.90	-0.3				e	19	28.50					eS	15	43.60	
COZ	147.64	335	iPKPc	19	17.00	0.5				e	23	07.50		PT02	6.16	236	iPc	14	33.40	0.4
BUC1	147.69	332	ePKP	19	18.00	1.6	YER	151.57	319	ePKP	19	22.50	-0.1				eS	15	50.00	
DEV	147.74	337	iPKPc	19	29.00	12.6X	SKO	151.60	334	iPKPd	19	22.20	-0.3	PT03	6.32	225	iPd	14	36.40	2.0
CGN	147.84	332	iPKPd	19	21.00	4.4X				i	19	29.20		ARE	6.92	182	iPd	14	40.70	0.5
FLN	147.99	7	iPKPd	19	17.00	0.3				i	19	39.00					iS	16	06.00	
GWF	148.09	357	iPKP	19	16.60	-0.3				iPP	23	11.00		ZOBO	7.37	156	iPd	14	45.00	0.4
STU	148.20	355	iPKPd	19	16.90	-0.2				iSKSP	33	24.00		LPB	7.62	157	iPd-	14	47.50	0.7
DRA	148.20	334	ePKP	19	17.00	-0.2	RJF	151.63	6	iPKPd	19	23.10	0.7		1.2s	1380	.00nm			5.9mb
LDF	148.20	7	iPKPd	19	17.40	0.3	VAY	151.64	332	iPKP	19	21.50	-1.0				S	17	08.00	
KMR	148.24	349	iPKP-	19	17.20	0.0				i	19	27.30		PSO	12.24	330	iP	15	35.00	3.2X
			i	19	21.50		LFF	151.91	7	iPKPd	19	23.60	0.8	CAC	13.08	171	eP	15	41.00	1.1
GRR	148.31	8	iPKPd	19	17.80	0.6	VG1	152.02	354	PKP	19	23.50	0.6				i	15	42.70	
GPA	148.35	322	iPKP	19	17.10	-0.5				e	19	30.50		OAS	13.70	174	eP	15	47.20	1.3
BUH	148.36	356	ePKPd	19	17.50	0.1				e	23	16.00		YJA	13.74	157	iP	15	47.20	0.5
HRT	148.37	323	ePKP	19	21.80	4.1X	CAF	152.05	5	iPKPd	19	23.80	0.7	ANT	14.15	177	iPc	15	50.80	0.7
STR	148.47	357	iPKPd	19	18.00	0.5	LPO	152.21	6	iPKPd	19	24.00	0.7	BOG	14.31	348	iP	15	54.50	2.3
ISK	148.55	324	ePKP	19	17.50	-0.4	OHR	152.58	334	iPKPd	19	23.80	-0.2				iS	17	50.00	
FUR	148.58	352	iPKPd	19	17.70	0.0				i	19	31.80		CHN	15.03	343	iP	16	03.00	4.1X
			i	19	22.20					i	19	42.30		FUQ	15.08	350	iP	16	00.00	0.4
			i	19	25.00		PRT	152.81	351	PKP	19	26.50	2.4	SLA	16.10	161	iPc	16	10.00	0.8
LPF	148.64	8	iPKPd	19	18.20	0.4				pPKP	20	01.00					S	18	50.60	
CDF	148.67	358	ePKP	19	18.30	0.3				PP	23	56.00		UAV	17.99	0	eP	16	31.50	4.1X
BHG	148.78	350	iPKPd	19	18.10	0.0	KZN	152.82	332	ePKP	19	24.00	-0.4	SDV	18.28	2	iPd	16	31.50	1.4

	0.6s	77.70nm		5.4mb		GMTN	50.20	357	iP	20 54.40	-0.2		BDW	62.70	329	iPd	22 19.80	-0.6
TOV	19.21	4 eP	16 39.30	0.7					i	22 03.20	329kmX		MOUT	62.79	326	iPd	22 21.00	-0.1
	0.5s	70.90nm		5.5mb					i	22 43.50			VPEM	62.99	319	iPd	22 22.80	0.5
LGN	19.52	360 i(P)	16 44.50	3.2X		GPD	50.35	357	iPc	20 55.60	-0.1		RSON	63.20	344	iPd	22 21.80	-1.4
GAL	20.55	349 iP	16 51.50	0.7		IN3	50.37	345	iPd	20 54.30	-1.6					eS	29 59.80	
CEN	22.08	174 P	17 04.30	-0.4		FVM	50.54	340	ePd	20 55.21	-2.0		WKTM	63.31	318	iPc	22 25.00	0.7
ITB	22.22	135 iP	17 03.30	-2.6		RLO	50.66	335	iPd	20 57.20	-0.9		BEI	63.38	327	ePd	22 24.40	-0.4
TCA	22.59	165 ePd	17 07.40	-1.9		TUL	50.76	334	iPd-	20 58.30	-0.6		SCCM	63.98	316	ePc	22 29.30	0.8
JACH	23.08	179 iP	17 12.80	-0.9			0.7s		14.00nm		4.5mb X		EUR	64.00	323	iP	22 29.80	1.0
BAO	23.46	107 iPd	17 17.50	0.2		Z	20s		1.02um		4.8Msz		SCH	64.18	3	iPd	22 28.10	-1.2
PEL	23.53	179 iPd	17 16.80	-0.9		N	22s		0.48um							pP	24 26.60	595km
	0.8s	201.00nm		5.8mb		E	21s		0.69um				IMW	64.20	329	iPd	22 30.10	0.1
FCH	23.73	178 iPd	17 19.70	-0.1					e	22 00.30	290kmX		TMI	64.29	328	iPd	22 30.10	-0.4
BACH	23.75	178 iP	17 19.00	-0.6					e	22 43.00			PHAM	64.63	317	ePd	22 33.00	0.4
SAN	23.84	179 iPd	17 19.50	-0.9					iS	27 19.50						eS	30 29.00	
PCH	24.01	179 iP	17 21.80	-0.2		SLM	51.06	341	ePd	20 58.63	-2.4		MNA	64.69	321	iPd	22 33.50	0.4
CHCH	24.32	179 iPd	17 23.60	-1.1		TYS	51.07	340	ePd	20 58.80	-2.3		FRI	64.84	319	iPd	22 32.90	-0.8
LNV	24.34	180 iP	17 23.60	-1.1		OCO	51.19	332	iPd	21 01.30	-0.6		PRI	64.98	317	iPd	22 35.10	0.2
RFA	25.28	175 iPd	17 32.60	-0.5					(Lg)	27 26.50			BMN	65.35	323	iPd	22 36.90	-0.2
VAO	26.82	123 eP	17 45.20	-1.5		AN10	51.21	347	iPd	21 00.50	-1.5					epP	24 35.40	590km
		e	17 55.10	36kmX		IN2	51.26	345	iPd	21 00.40	-2.0					eS	30 33.80	
		i	19 38.20			AN11	51.34	347	iPd	21 01.20	-1.8		JAS	65.86	319	iPd	22 40.40	0.3
		i	20 48.50			RRO	51.54	332	iPd	21 04.90	0.4					e	26 38.00	
		e	21 37.90				0.5s		595.00nm		6.3mb					e	30 41.00	
		e	23 32.20			AN12	51.58	347	iPd	21 03.30	-1.3		ARN	66.24	318	iPc	22 43.50	1.0
LPA	28.06	156 iPd-	17 56.00	-1.2		IN1	51.61	346	Pd	21 02.80	-2.0					eS	30 49.30	
	0.8s	955.00nm		6.5mb		ATO	51.70	332	iP	21 04.40	-1.3		MHC	66.31	318	iPd	22 43.90	0.9
BMA	29.06	120 iPc	18 05.50	-0.6		LUB	51.82	327	eP	21 05.50	-1.1					e	24 44.00	598km
		e	18 06.70	4kmX		PCO	51.94	334	iPd	21 07.10	-0.2		LRM	66.32	330	iPd	22 43.20	0.1
		e	18 13.20						e	22 09.50	291kmX		BKS	66.99	318	iPd	22 47.60	0.6
SSS	29.14	322 eP	18 09.30	2.5		DHN	52.46	354	iPd	21 10.20	-0.8			0.8s		70.00nm		5.2mb	
		eS	22 24.40						iPcP	22 10.70						e	23 20.60	135kmX
LPS	29.59	323 eP	18 11.80	1.1		AAM	52.79	348	iPd	21 11.80	-1.6					e	24 47.00	
		eS	22 29.50			ACO	52.92	332	iPd	21 13.90	-0.5					e	25 21.80	
VBA	29.62	165 iPc	18 08.80	-1.9			0.6s		324.00nm		5.9mb					iS	30 57.70	
SOB1	29.92	92 iP	18 14.30	0.8		DLA	52.96	350	P	21 13.00	-1.5					e	31 47.00	
CAI	33.87	88 iPc	18 46.90	0.2		APH	53.17	357	iPd	21 15.50	-0.5					e	32 32.00	
VHO	36.63	316 iP	19 12.00	2.5					epP	23 07.80	601km					e	33 29.00	
ACX	38.58	313 iP	19 26.60	1.3		ELF	53.24	351	P	21 15.20	-1.3		ORV	67.46	320	iPd	22 50.60	0.8
IIT	38.94	317 ePc	19 31.00	2.5		BNH	53.84	360	iPd	21 20.50	-0.2		NWRM	67.74	318	iPd	22 52.30	0.8
IIP	39.58	316 iPc	19 36.20	2.5					iPcP	22 16.70			KIC	68.08	79	iPd	22 54.10	0.0
TAC	39.81	316 iP	19 39.00	3.5X		RSNY	53.88	357	iPd	21 20.50	-0.4					e	24 51.40	574kmX
IIC	40.10	317 iPc	19 40.00	2.1					iPcP	22 15.00						S	31 06.50	
CRX	40.15	316 iPc	19 40.50	2.3					ipP	23 12.90	598km		RMT	68.41	320	iP	22 55.30	-0.2
SBK	42.70	349 eP	19 58.50	0.7		PTN	53.93	357	iPd	21 20.40	-0.9		WDC	68.70	320	iPd	22 56.00	-1.3
		ePcP	21 36.50			EMM	54.09	3	iPd	21 22.40	0.0					e	24 55.00	583km
ZIN	43.22	349 iPd	20 02.70	0.8					epP	23 16.20	608kmX					e	31 10.90	
OSB	43.78	348 ePd	20 06.60	0.4		MIM	54.52	2	iPd	21 25.10	-0.3		LGBM	68.91	321	iPd	22 58.90	0.0
		ePcP	21 39.00			OTT	54.79	356	eP	21 26.30	-1.0					ePcP	24 34.00	
MTT	44.14	348 iPd	20 09.30	0.3			1.4s		628.00nm		5.8mb					epP	25 02.00	609kmX
HKT	45.82	330 iP	20 22.50	0.5		MNT	54.79	358	iPd	21 27.00	-0.3		SES	68.97	334	iPd	22 59.00	0.2
TKL	46.45	346 iPd	20 26.00	-0.8			0.8s		1400.00nm		6.3mb			0.5s		386.00nm		6.2mb	
FMTX	46.84	332 iP	20 30.60	0.9		ALQ	55.36	325	iPd	21 31.00	-0.7					pP	24 56.00	569kmX
RSCP	46.86	344 iPd	20 29.30	-0.6			0.9s		149.00nm		5.3mb		FFC	69.01	341	iPd	22 58.20	-0.7
PWLA	47.02	341 iPd	20 29.50	-1.6					ePcP	22 20.00						pP	24 58.00	587km
		iPcP	21 49.80						epP	23 24.00	595km		PNO	69.48	326	ePd	23 02.00	0.2
		iS	26 34.00			ANMO	55.36	325	iPd	21 31.30	-0.4		LDM	69.56	330	iP-	23 02.50	0.2
ATX	47.15	328 iP	20 31.70	-0.4					e	23 25.00	600km		FHC	69.73	320	iPd	23 04.90	1.4
BLA	47.26	350 iP-	20 33.10	0.2		CBM	56.25	3	iPd	21 37.30	0.0		NEW	70.32	329	iPd	23 06.40	-0.4
	1.2s	1390.00nm		6.4mb		GLD	58.26	330	iPc	21 51.80	0.4					e	25 06.00	582kmX
		ipP	21 51.20	390kmX			1.5s		2500.00nm		6.2mb		FCC	70.50	348	iPd	23 07.30	-0.2
		iS	26 42.80			Z	18s		2.76um		5.4Msz			0.6s		502.00nm		6.2mb	
MZX	47.36	314 iPd	20 34.50	0.7		GOL	58.30	329	iPd	21 51.50	-0.3		COR	71.43	324	iPd	23 13.00	-0.2
NAV	47.43	350 iPd	20 34.40	0.2					eS	29 09.50			SHW	71.75	325	iPc	23 15.90	0.7
NA12	47.64	353 iPc	20 35.60	-0.1		STJ	59.15	14	eP	21 55.50	-1.4		LON	71.85	326	iPd	23 16.20	0.5
CVL	47.72	352 eP	20 36.20	-0.1			0.5s		590.00nm		6.1mb		EDM	72.01	335	iPd	23 26.00	9.5X
OKG	48.20	340 ePd	20 37.99	-2.0					pP	23 52.00	602km					pP	25 16.50	521kmX
JCT	48.31	326 iPd	20 40.20	-0.8		GLA	59.28	318	iPd	21 58.30	0.2		PNT	72.26	329	iPd	23 18.50	0.5
	0.8s	153.00nm		5.6mb					eS	29 22.00				1.0s		552.00nm		6.0mb	
		e	22 32.00	628kmX		LHC	59.83	346	iPd	22 00.00	-1.4					pP	25 20.00	588km
GRT	48.64	340 ePd	20 41.33	-1.9		RSSD	61.10	334	iPc	22 10.10	0.0		BFW	72.47	325	iPc	23 20.30	1.0
OLY	48.68	338 eP	20 37.20	-6.3X		MSU	61.13	324	iPc	22 10.70	0.3					epP	25 22.30	591km
		eS	26 57.50						eS	29 48.20			GMW	72.86	326	iPd	23 21.80	0.4
PGA	48.87	339 ePd	20 43.21	-1.7		BKU	61.70	323	iPd	22 14.60	0.5					eS	32 03.00	
LST	48.98	340 ePd	20 44.04	-1.7					eS	29 53.00			FRB	73.06	1	eP	23 21.00	-1.1
WCK	49.07	341 ePd	20 44.05	-2.3		PAS	62.17	317	iPd	22 17.00	0.1		MCW	73.55	327	iPd	23 26.20	0.9
POW	49.15	339 ePd	20 45.05	-1.9					ePcP	22 34.00						epP	25 28.80	591km
RMB	49.49	340 ePd	20 47.35	-2.1					epP	24 16.00	606kmX					eS	32 10.50	
ELC	49.51	341 ePd	20 47.15	-2.4					ePP	25 05.00			PGC	73.86	327	iPd	23 28.00	1.1
MRG	49.55	351 iP	20 49.80	0.0					iS	30 00.00				0.7s		292.00nm		5.9mb	
		iS	27 14.80						eSP	30 26.00			RUV	74.31	257	iP	23 30.80	0.8
CSIL	49.69	342 ePd	20 48.85	-2.0					eScS	31 07.00				1.1s		175.00nm		5.5mb	
PRIN	49.72	356 iPc	20 50.70	-0.3					esS	33 26.00			VAH	74.54	257	iP	23 32.00	0.7
NHIL	49.77	342 ePd	20 49.32	-2.2					eSS	34 30.00				1.1s		185.00nm		5.5mb	
WDIN	49.79	343 ePd	20 49.13	-2.5					eSSS	38 01.00			TPT	74.56	257	iP	23 32.40	1.0
BPIL	50.15	342 ePd	20 52.02	-2.3		RKT	62.25	249	iP	22 12.00	-5.6X			1.1s		200.00nm		5.6mb	
SPIN	50.18	343 ePd	20 51.54	-2.9		DUG	62.63	325	iPd	22 20.30	0.4		PMO	74.82	257	iP	23 33.80	0.9

02d 20h

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     1.1s  240.00nm          5.6mb
LIS  74.97  46 iPd  23 35.00   1.7
               iS   32 27.40
PAE  76.16 254 iP   23 41.40   1.2
     1.1s  220.00nm          5.6mb
PPT  76.17 254 iP   23 41.70   1.4
     1.1s  170.00nm          5.5mb
SFS  76.18  49 eP   23 42.00   2.0
               e    25 46.00 593km
               iS   32 44.00
AFR  76.36 254 iP   23 42.40   1.1
     1.1s  480.00nm          5.9mb
PTO  76.40  44 iPd  23 42.00   1.0
               iPP  25 45.00
               iS   32 40.00
PHC  77.16 327 iPd  23 45.50   0.6
     0.8s  338.00nm          5.8mb
               pP   25 49.00 587km
ALM  79.12  50 iPd  23 55.80   0.2
     1.1s    6.20nm          4.0mb X
               iPP  26 03.30
               iS   33 09.20
YKC  79.13 341 iPd  23 55.00  -0.1
     0.8s  334.00nm          5.8mb
RSNT 79.17 341 iPc  23 55.50   0.2
               eS   33 03.00
YKA  79.19 341 eP   23 56.20   0.8
GDH  79.53   6 iPd  23 56.10  -0.9
     0.5s  211.00nm          5.8mb
               i    33 05.00
SPA  80.56 180 iPc  24 02.90   0.1
     1.0s  395.00nm          5.9mb
               e    26 10.00 601km
LGR  81.10  44 iPd  24 07.80   2.0
     1.7s    1.20nm          3.1mb X
               ipP  26 13.80 593km
               i(PP) 26 22.50
               iS   33 26.50
ALI  81.11  49 iP+  24 06.50   0.7
               iPP  26 13.50
REY  82.26  20 iPd  24 12.80   1.7
               i    26 19.40 594km
ECB  82.45  34 eP   24 11.80  -0.4
ECP  82.59  34 iPc  24 12.60  -0.3
     1.6s  870.00nm          6.0mb
DCN  82.61  33 iPc  24 13.20   0.2
     2.0s 1680.00nm          6.2mb
EBR  82.64  47 eP   24 14.00   0.5
               e    26 21.00 596km
               eS   33 38.00
               e    37 31.00
ETA  82.90  34 iPc  24 14.50   0.0
     1.4s  860.00nm          6.1mb
DLE  82.98  33 iPc  24 14.90   0.0
     2.3s 2460.00nm          6.3mb
DMU  83.06  32 iPc  24 15.30   0.0
     1.8s 1680.00nm          6.3mb
DDK  83.14  33 iPc  24 15.60   0.0
     2.3s 1760.00nm          6.2mb
EPF  83.26  44 iPd  24 17.70   1.0
LPF  84.09  39 iPd  24 20.70   0.2
     0.6s  469.00nm          6.3mb
MFF  84.15  41 iPd  24 21.30   0.4
     0.5s  172.00nm          5.9mb
LFF  84.17  43 iPd  24 21.50   0.5
     0.8s  275.00nm          5.9mb
GRR  84.33  39 iPd  24 22.00   0.3
     0.7s  350.00nm          6.1mb
SIT  84.37 330 ePd  24 22.50   0.8
LPO  84.39  43 iPd  24 22.50   0.4
     1.0s  144.00nm          5.6mb
AKU  84.50  19 iPd  24 24.00   1.9
     1.7s  554.00nm          5.9mb
               i    26 30.90 592km
OKP  84.67 119 iPd  24 23.30  -0.6
     0.5s   25.00nm          5.1mb
               i    26 30.00 590km
FLN  84.70  39 iPd  24 24.00   0.5
     0.9s  405.00nm          6.1mb
RJF  84.81  43 iPd  24 24.20   0.1
     0.8s   90.00nm          5.5mb
LDF  84.86  39 iPd  24 24.70   0.4
     0.9s  450.00nm          6.1mb
CAF  85.06  43 iPd  24 25.70   0.3
     0.7s  109.00nm          5.6mb
LSF  85.13  42 iPd  24 25.70   0.1
     0.8s   62.50nm          5.3mb
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TUH  85.17 123 eP   24 24.50  -1.6
TCF  85.59  42 iPd  24 27.80  -0.1
     0.7s   70.00nm          5.5mb
EKA  85.64  32 Pd   24 27.50  -0.3
     1.2s  142.00nm          5.5mb
MZF  85.81  42 iPd  24 29.10   0.2
     1.1s  113.00nm          5.5mb
BGF  86.09  42 iPd  24 30.40   0.2
AVF  86.49  42 iPd  24 32.10   0.0
     0.8s   55.00nm          5.3mb
SSF  86.68  41 iPd  24 32.80  -0.2
     1.1s  102.00nm          5.5mb
SMF  86.77  42 iPd  24 33.70   0.2
     1.2s  203.00nm          5.7mb
LOR  86.97  41 iPd  24 34.10  -0.3
     1.0s  131.00nm          5.6mb
SBA  87.16 190 iP   24 35.50   0.6
LRG  87.59  45 iPd  24 37.90   0.6
     1.1s  147.00nm          5.7mb
LMR  87.66  46 iPd  24 38.10   0.4
     1.1s  160.00nm          5.7mb
FRF  87.82  45 iPd  24 38.70   0.3
     0.9s  118.00nm          5.7mb
PCA  88.00 332 iPc  24 39.50   0.5
DOU  88.27  39 iPd- 24 40.50   0.2
     0.8s 1000.00nm          6.7mb
               pP   26 49.00 594km
               pPPP 31 10.00
               SKS  34 12.50
               S    34 33.80
               SP   35 45.00
               sSKS 38 16.00
UCC  88.33  38 Pc-  24 41.00   0.4
               pP   26 49.30 592km
               SKS  34 14.00
               S    34 36.00
               SP   35 42.00
SYO  88.44 160 iP   24 41.40   0.5
STV  88.46  45 P    24 41.50   0.0
               PP   26 51.50
HAU  88.79  41 iPd  24 42.80  -0.1
     1.5s  144.00nm          5.7mb
INK  88.94 341 iPd  24 43.70   0.6
     0.3s  241.00nm          6.6mb
DIX  88.99  43 ePd  24 44.60   0.5
BSF  89.03  41 iPd  24 43.90  -0.2
     1.5s  207.00nm          5.8mb
CVF  89.15  47 iPd  24 44.90   0.3
     1.3s   87.80nm          5.5mb
BAF  89.17  41 iPd  24 44.50  -0.2
DBN  89.20  37 iP-  24 46.00   1.5
               ipP  26 53.00 584km
               iSKS 34 18.00
               iS   34 43.00
               esSS 38 22.00
ORO  89.26  44 Pd   24 45.00  -0.2
               PP   26 54.20
ENN  89.27  38 iPd  24 45.30   0.4
     0.9s  191.00nm          6.0mb
               epP  26 53.50 590km
               eS   34 39.50
MMK  89.36  43 iPd  24 46.60   0.8
ECH  89.37  41 iPd  24 45.60   0.1
CDF  89.50  41 iPd  24 46.20   0.0
     1.1s  152.00nm          5.8mb
VG1  89.86  44 P    24 48.50   0.8
GWF  89.86  40 iPd  24 48.10   0.3
TMA  89.98  43 iPd  24 48.40  -0.2
ZUL  89.99  42 ePd  24 48.50   0.1
MBC  90.10 350 iPd  24 49.00   0.7
     0.5s  288.00nm          6.5mb
WTS  90.14  37 iPd  24 49.60   0.7
     1.1s  171.00nm          5.9mb
               i    24 52.10
               ipP  26 58.90 596km
               eS   34 43.50
BUH  90.17  41 eP   24 48.90  -0.3
LLS  90.25  43 ePd  24 50.00   0.2
WIT  90.27  36 ePd  24 51.00   1.6
               ipP  26 58.60 586km
HON  90.44 291 ePd  24 51.80   0.9
KIP  90.47 292 iPc  24 52.00   1.0
TNS  90.69  39 iPd  24 52.10   0.5
KIM  90.69 119 iPd  24 54.90   2.7
     0.9s  106.00nm          5.8mb
               i    26 59.70 569kmX
STU  90.82  41 iPd- 24 52.00  -0.1
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     1.0s  120.00nm          5.9mb
HVD  90.94 121 iPd  24 53.70   0.3
               i    27 01.90 588km
ERC  90.95  52 P    24 53.50   0.6
               PP   27 03.60
SAL  91.00  44 P    24 53.50   0.5
               PP   27 02.50
PRT  91.02  46 P    24 54.50   1.4
               pP   27 09.00 626kmX
               S    34 32.50
FIR  91.12  46 P    24 52.00  -1.6
               (S)  35 00.00
DAG  91.21  11 iPd  24 53.70   0.3
     0.9s  134.00nm          6.0mb
               i    27 03.00 595km
GRM  91.28 124 iPd  24 53.30  -1.4
     0.4s 1150.00nm          7.3mb X
SWZ  91.47 118 iPd  24 55.00  -0.8
               e    27 05.00 598km
OGA  91.60  43 iPd  24 56.40   0.3
               i    27 05.40 593km
RDP  91.77  48 Pd   24 57.50   0.8
               PP   27 07.00
RMP  91.77  48 Pd   24 57.50   0.8
     1.5s    0.80nm          3.5mb X
               pP   27 07.00 595km
               PP   28 04.00
               S    33 32.00
BLF  91.83 120 eP   24 56.50  -1.0
     0.5s   41.00nm          5.7mb
               e    27 06.60 599km
MNS  91.86  47 P    24 57.70   0.7
               PP   27 07.00
ALE  91.96   1 iPd  24 56.70   0.0
     0.4s   49.00nm          5.9mb
FUR  92.04  42 iPd  24 58.30   0.5
     1.0s  145.00nm          6.0mb
GIB  92.05  52 Pd   24 58.50   0.3
               PP   27 08.00
POI  92.09  47 P    24 58.50   0.4
GRF  92.32  40 iPd  24 59.70   0.7
     1.7s  206.00nm          5.9mb
HAM  92.33  36 iPd  25 00.00   1.1
AQU  92.38  48 P    25 00.50   1.0
               PP   27 09.00
PME  92.56 332 iPd  24 59.50  -0.3
     1.0s  130.00nm          5.9mb
               e    27 08.00 589km
MUD  92.58  33 iPd  25 01.10   1.1
     1.0s  126.00nm          5.9mb
PMR  92.59 332 iPd  24 59.70  -0.3
               epP  27 07.30 584km
VIR  92.62 119 eP   25 00.00  -1.1
MOX  92.76  39 iPd- 25 01.50   0.5
     2.1s  400.00nm          6.1mb
               ipP  27 11.00 595km
               ePP  28 54.00
               iSKS 34 40.00
               eSP  36 30.00
MEI  92.78  53 P    24 57.00  -4.4X
BFS  92.80 118 iPd  25 00.70  -1.3
     0.7s  111.00nm          6.0mb
               i    27 09.20 589km
HOF  92.86  40 iPd  25 02.10   0.6
     2.5s  692.00nm          6.3mb
               e    36 33.00
COL  92.90 335 iP   25 01.50   0.1
               e    27 08.00 578kmX
               e    34 37.00
FBA  92.90 335 iPd  25 01.00  -0.4
BHG  93.01  42 iPd  25 02.80   0.5
DUI  93.03  48 P    25 03.00   0.6
               PP   27 13.00
KSR  93.11 117 iPd  25 02.50  -1.0
               i    27 12.00 595km
KBA  93.20  43 iPd  25 03.30  -0.1
     0.9s   45.50nm          5.6mb
               i    25 06.80
               epP  27 12.40 592km
               e    34 32.50
               e    34 39.30
SEK  93.23 119 iPd  25 04.00   0.0
TRI  93.24  44 iPc  25 03.50   0.2
               iPP  27 12.50
WET  93.27  41 iPd  25 03.90   0.4
     1.2s  134.00nm          5.9mb
               i    27 12.60 590km
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			eS	34	42.00			N	16s		1.40um				MRRJ	136.69	325	PKP	30	59.00	-8.7X
KDC	93.33	328	iPd	25	03.40	0.0		E	16s		2.60um				NWAO	137.05	190	ePKP	30	55.00	-13.8X
PRY	93.40	118	iPc	25	02.50	-2.2					i	25	27.40		PMG	137.43	245	ePKP	30	59.00	-10.9X
			e	27	06.60	564kmX					i	25	30.60		KLG	138.14	196	ePKP	30	58.00	-12.8X
SGO	93.48	50	Pd	25	06.00	1.5					epP	27	34.50	594km	MUN	138.15	189	iPKPc	30	59.10	-11.7X
			PP	27	15.00						e	29	32.40		LAT	138.68	249	ePKP	31	04.00	-8.2X
CEY	93.70	44	iPd	25	05.80	0.3					e	35	05.00		BAL	139.40	191	ePKP	31	03.00	-10.1X
			i(pP)	27	14.80	592km	SPC	98.07	41	iP	25	26.80	1.4	MOM	139.86	255	ePKP	31	07.00	-7.3X
			eS	34	43.60						e	27	35.80	592km	MDG	140.32	250	ePKP	31	09.00	-6.2X
			e(sS)	38	07.50		JOS	98.20	42	iPd	25	26.30	0.6	WBN	140.57	206	iPKPd	31	07.10	-8.3X
KHC	93.72	41	iPd	25	06.00	0.5	SKO	98.24	49	iPd	25	26.20	0.1	MDJ	140.65	336	PKPc	31	07.80	-7.1X
			pP	27	15.00	592km	Z	20s		1.00um			5.3Msz					pPKP	33	21.00	
			e	28	03.00		E	24s		2.70um								PP	34	01.00	
			e	34	42.00					i	27	36.20	598km					PKS	34	44.00	
			e	36	40.00					i	35	05.00		KAKJ	141.03	318	PKP	31	08.70	-7.1X
			P'P'	50	11.50					i	36	04.00		TSK	141.07	318	ePKP	31	07.60	-8.3X
CLL	93.75	39	iPd	25	06.00	0.5				i	37	22.00		NIIJ	141.18	320	PKP	31	09.10	-6.9X
	2.4s	430.00nm				6.2mb	VAY	99.03	50	eP	25	30.00	0.4	WMQ	141.20	25	PKP	31	10.00	-6.0X
			epP	27	15.00	592km	ATH	99.65	53	eP	25	32.00	-0.4				pPKP	33	32.00	
			eSKS	34	44.00					eS	35	12.00					PP	34	13.00	
			eS	35	22.00		ANM	100.30	334	ePdiff	25	36.00	1.3	WB2	141.40	221	ePKP	31	10.20	-6.7X
LJU	93.83	44	iPd	25	06.50	0.5	COZ	100.58	46	iPdiff	25	37.00	0.3				i	33	56.50	
			e	27	15.50	591km	CMP	101.07	46	iPdiff	25	38.00	-0.7				i	34	14.00	
			eS	34	43.00		NUR	101.09	30	iPdiff	25	38.60	0.3	KYS	141.62	317	ePKP	31	12.10	-4.8X
KMR	93.90	42	iP-	25	07.00	0.7		0.7s		18.70nm			5.7mb	DDR	141.80	318	ePKP	31	11.70	-5.6X
			e	27	15.40	588km				ipP	27	48.00		CHJJ	141.90	319	PKP	31	12.60	-4.7X
			e	31	52.00					ePP	29	56.00		SRY	141.97	318	ePKP	31	12.70	-4.8X
BPI	94.04	117	iPd	25	05.20	-2.5				epPP	31	52.00		OYM	142.10	318	ePKP	31	12.70	-5.1X
BRN	94.07	38	iPd	25	08.20	1.3				eSKS	35	16.00		MTMJ	142.33	320	PKP	31	13.80	-4.4X
			i	27	16.80	589km				eS	36	24.00		AJI	142.42	317	PKP	31	15.00	-3.2X
COP	94.21	34	iPd-	25	08.30	0.8				eSP	37	56.00		KTJ	142.48	317	PKP	31	13.70	-4.6X
	0.9s	145.00nm				6.2mb				ePKKP	41	37.00		MEK	142.87	195	iPKPd	31	15.40	-3.9X
			i	27	17.00	590km				eSS	43	36.00		CN2	142.88	340	iPKPd	31	14.50	-4.2X
			iS	34	49.00		KDZ	101.14	49	iPdiff	25	38.00	-1.0				pPKP	33	31.50	
BRG	94.26	39	iPd	25	08.50	0.7	KEV	101.70	21	iPdiff	25	41.00	0.1				iPP	34	32.50	
	1.8s	167.00nm				6.0mb		0.6s		17.00nm			5.8mb				SKKS	40	23.00	
			epP	27	17.20	589km				ipP	27	50.50		WWW	142.91	251	iPKPd	31	17.00	-2.7X
			eSKS	34	48.00					ePP	29	56.00		IIDJ	142.94	319	PKP	31	17.00	-2.2
			eS	35	28.00					ePPP	32	48.00		TKY	142.95	320	PKP	31	17.00	-2.2
			P'P'	50	17.00					eSKS	35	20.00		HJJ	143.02	314	PKP	31	16.00	-3.3X
PRE	94.28	117	eP	25	07.70	-1.0				eSP	38	04.00		TK04	143.62	317	PKP	31	19.20	-0.9
SLR	94.36	117	iPd	25	07.90	-1.2				ePS	39	16.00		TK03	143.69	317	PKP	31	19.70	-0.5
	1.2s	444.00nm				6.6mb				iPKKP	41	33.00		GIF	143.73	320	PKP	31	19.00	-1.4
PRU	94.48	40	Pd	25	09.70	0.8				esPS	41	48.00		TK02	143.95	317	PKP	31	20.10	-0.5
	2.4s	208.00nm				5.9mb				eSS	43	52.00		HIK	144.14	320	PKPd	31	20.90	-0.2
			pP	27	19.00	593km	MLR	101.72	45	iPdiff	25	42.00	0.3	TSRJ	144.14	320	PKPd	31	20.60	-0.5
			PP	29	06.50		SOD	101.73	23	iPdiff	25	40.80	-0.2	TK01	144.17	317	PKPd	31	20.80	0.0
			S	36	12.00		SUF	101.76	28	iPdiff	25	43.80	2.5X	GUA	144.39	280	ePKPd	31	20.60	-1.5
			P'P'	50	12.00			0.7s		2.40nm			4.8mb		0.6s		437.00nm			
NB2	94.59	29	P	25	09.20	0.0	VRI	102.27	45	ePdiff	25	44.00	0.0				(pP)	33	36.00	
	1.0s	97.00nm				6.0mb	KJF	102.39	26	iPdiff	25	45.50	1.5	PJG	144.43	280	ePKPd	31	20.50	-1.7
EVA	94.89	118	eP	25	11.00	-0.5		0.7s		18.10nm			5.8mb				(pP)	33	37.00	
			e	27	20.70	595km				ipP	27	54.50		GUMO	144.43	280	ePKP	31	21.50	-0.7
VKA	95.38	42	iPd	25	13.50	0.5				iPP	30	02.50		MZH	144.61	321	PKP	31	21.00	-0.9
	2.6s	524.00nm				6.3mb				ePPP	32	28.00		OWA	144.92	318	PKP	31	22.00	-0.5
			pP	27	22.10	588km				eSKS	35	24.00		POO	145.00	71	iPKPd	31	23.00	-0.1
LCI	95.44	50	P	25	14.50	1.1				eS	36	36.00			0.9s		450.00nm			
IMA	95.56	336	iPd	25	13.00	-0.6				eSP	38	12.00		WKYJ	145.22	319	PKPd	31	23.30	0.2
			e	27	20.00	579kmX				ePKKP	41	36.00		TOTJ	145.24	322	PKP	31	23.00	0.0
HFS	95.64	30	eP	25	14.00	0.2				i	42	05.00		SUM	145.59	320	PKP	31	24.00	0.4
	0.9s	25.00nm				5.4mb				eSS	43	56.00		YONJ	145.92	322	PKP	31	23.50	-0.6
KSP	95.72	40	iPd	25	15.50	1.1	TLB	103.18	46	ePdiff	25	48.00	0.0	MTS	145.97	323	PKP	31	25.00	0.8
	0.8s	170.00nm				6.3mb	KVT	109.19	50	iPKP	30	14.70	-0.7	HMD	146.95	323	PKP	31	27.00	1.3
			i	27	24.60	591km	AVY	113.53	115	ePKPd	30	24.00	-0.5	HIR	147.10	322	PKP	31	26.00	0.0
			e	29	16.50		TAB	117.44	52	ePKP	30	30.00	-1.3	NAU	147.48	192	iPKPd	31	26.90	0.0
			e	31	49.50		KER	118.64	56	ePKP	30	36.00	2.3	MBL	147.65	200	iPKPc	31	26.60	-0.7
BUL	95.86	111	iPd	25	16.10	0.2	WAM	120.93	217	iPKPd	30	38.90	1.1	UWA	147.79	321	PKP	31	31.00	3.8X
	0.8s	26.10nm				5.5mb	CAN	121.44	218	iPKPd	30	38.30	-0.6	KNA	148.04	218	iPKPc	31	27.20	-0.8
			ipP	27	27.00	601km	TOO	121.92	214	iPKPd	30	38.90	-0.8	SHNJ	148.05	323	PKP	31	26.20	-1.3
			iS	34	57.90			0.6s		33.00nm				MTN	148.60	225	iPKPd	31	28.50	-0.4
TTA	96.02	333	ePc	25	14.90	-0.7	YOU	122.51	219	iPKPd	30	40.40	-0.6	HHC	148.68	356	iPKPd	31	29.40	0.9
MAW	96.40	164	eP	25	17.00	-0.3	COO	122.55	224	iPKPd	30	41.10	-0.1				pPKP	33	48.50	
BUD	97.09	43	ePd	25	21.00	0.3		0.7s		250.00nm							PP	35	07.00	
JOZ	97.27	119	eP	25	24.00	2.0	BFD	123.80	212	iPKPd	30	42.80	-0.6	NOB	148.77	321	PKP	31	30.00	1.3
SDN	97.32	325	eP	25	21.00	-0.6	CMS	125.97	219	iPKPd	30	47.10	-0.7	BJI	148.88	349	PKP	31	29.00	0.4
UPP	97.56	31	iP	25	22.00	-0.5	ADE	127.49	211	iPKPd	30	50.50	-0.1		1.5s		262.00nm			
			i	27	32.20	599km		0.6s		97.30nm				BJI	148.88	349	PKP	31	34.00	5.4X
			iS	34	59.00		KHI	128.02	54	iPKPd	30	51.20	-0.6				sPKP	33	47.00	
			i	35	54.00		MHI	128.06	51	iPKPd-	30	51.70	0.0				PP	34	58.00	
			i	37	17.00					e	32	55.00					SKS	40	59.00	
OHR	97.68	50	iP	25	24.50	0.8	STK	128.25	216	iPKPd	30	51.80	-0.3				(SS)	53	10.00	
			i	25	42.00	62kmX	CTA	132.83	231	ePKP	30	49.00	-12.1X				SSS	59	20.00	
			i	27	34.90		NEM	133.51	323	PKP	30	46.00	-15.7X	BTO	149.01	358	iPKPd	31	29.50	0.5
			i	35	03.60		ALOT	134.10	246	ePKP	31	03.00	-0.6				pPKP	33	48.60	
KRA	97.95	41	iPd	25	25.20	0.6	KUSJ	134.17	323	PKP	30	49.00	-13.9X				PP	35	08.00	
	1.1s	103.00nm				6.1mb	ASAJ	134.73	326	PKP	30	52.00	-12.0X	GBA	149.04	79	PKP	31	29.00	-0.5
Z	16s		1.00um			5.4MszX	HOOJ	135.43	323	PKP	30	53.00	-12.3X	KOD	149.15	86	iPKPd	31	30.60	0.4

02d 20h

	1.0s	126.00nm				
		ePP	33	47.00		
GTA	149.16	14 iPKP	31	29.60	0.3	
		ipPKP	33	49.00		
		PP	35	11.50		
		SKKS	41	00.00		
KUMJ	149.33	322 PKP	31	29.10	-0.4	
HYB	149.60	72 iPKPd	31	30.00	-0.4	
	0.8s	492.00nm				
		e	33	46.00		
NGS	149.77	323 PKP	31	30.90	0.7	
KAGJ	150.20	320 PKP	31	30.90	0.0	
DMN	151.32	48 iPKPd	31	33.00	0.0	
KKN	151.35	47 iPKPd	31	33.00	0.0	
	0.8s	340.00nm				
PKI	151.56	48 iPKPd	31	33.20	-0.3	
	1.0s	250.00nm				
TIY	151.72	354 PKPd	31	33.40	0.4	
		e	31	52.00		
		pPKP	33	49.00		
		PP	35	25.50		
		SKKS	41	34.00		
		SS	53	57.00		
TIA	152.35	345 PKPd	31	33.90	0.0	
		e	31	53.80		
		pPKP	33	50.50		
		pPKP	34	07.50		
		PKS	35	07.20		
		PP	35	27.60		
		SKKS	41	16.00		
LZH	153.16	9 PKPd	31	36.50	1.3	
		e	31	58.00		
		pPKP	33	52.00		
		PP	35	34.00		
		SKKS	41	26.50		
LSA	154.00	37 iPKPd	31	37.90	1.0	
		e	32	03.10		
		SKKS	41	27.10		
XAN	155.58	360 iPKP	31	38.00	-0.4	
		e	32	07.00		
		pPKP	33	56.50		
		i	34	17.00		
		PP	35	45.50		
SSE	155.61	333 PKPc	31	38.00	-0.4	
		e	32	08.00		
		pP	33	54.00		
NJ2	155.70	339 iPKPd	31	38.00	-0.5	
		i	32	07.00		
		pPKP	33	56.00		
		PP	35	45.00		
AAI	156.64	237 ePKP	31	39.50	-0.8	
	0.6s	144.00nm				
CD2	158.19	12 PKP	31	42.50	0.8	
		e	32	17.50		
		epP	33	59.00		
		ipP	34	28.00		
		PKS	35	16.00		
		PP	36	00.00		
		SKS	38	04.00		
WHN	158.43	347 ePKP	31	40.00	-1.8	
		i	32	19.50		
		pPKP	33	58.00		
		PP	36	00.00		
ANP	160.25	324 ePKP	31	46.00	2.0	
MKS	161.91	217 ePKPc	31	45.00	-0.9	
QZH	162.03	330 PKPd	31	46.00	0.3	
		e	32	36.00		
		PP	36	20.00		
TRT	162.48	193 iPKPd	31	47.20	0.8	
	0.6s	77.40nm				
GYA	163.02	7 PKP	31	47.00	0.2	
		e	32	40.00		
		epP	34	04.00		
		ipP	34	49.00		
		PP	36	24.00		
DAV	163.21	263 ePKP	31	47.00	-0.2	
KMI	163.43	20 iPKPd	31	48.00	0.6	
	4.0s	1.80nm				
GZH	165.80	343 iPKPd	31	50.00	0.8	
		e	32	51.00		
		PP	36	39.20		
HKC	166.26	339 ePKP	31	50.00	0.5	
CHG	166.72	45 iPKPd	31	49.00	-1.0	
	0.9s	54.60nm				
CHTO	166.72	45 PKP	31	50.10	0.1	
QCP	166.94	294 ePKP	32	08.50	18.3X	
PPI	167.06	139 ePKPd	31	49.80	-0.6	

	0.6s	3.60nm				
BDT	167.77	50 iPKPd	31	49.90	-0.8	
	0.9s	91.40nm				
PPR	170.18	272 ePKPc	31	53.90	1.6	
KGM	170.79	144 ePKPd	31	52.40	-0.2	
		e	33	14.90		
IPM	170.88	122 ePKPd	31	52.10	-0.6	
	0.9s	72.90nm				
		e	33	15.40		
		e	35	25.00		
PCT	171.14	54 iPKPd	31	54.00	1.4	
	1.0s	65.60nm				
		e	33	18.00		
		e	35	28.70		
SNG	171.60	105 ePKP	31	52.00	-0.9	
KKM	171.87	246 ePKPd	31	53.60	0.4	
	1.1s	107.00nm				

S.D. = 1.0 on 417 of 463 obs.

JUN 09, 1983 18h 46m 02.91± 0.30s
51.441 N ± 1.8km 174.120 W ± 1.0km
DEPTH = 34.3 ± 2.6 km
6.2mb (153 obs.) 6.0Msz (46 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (III) on Adok.

AD2	1.27	292 iPd	46	24.60	0.1	
AD8	1.64	290 iPd	46	31.03	1.2	
ADK	1.66	287 iPd	46	30.30	0.2	
AK5	1.77	283 iPd	46	32.22	0.6	
AD7	1.91	285 ePd	46	34.49	0.8	
AD6	1.97	279 eP	46	34.92	0.4	
AK1	2.21	277 iPc	46	38.88	0.9	
NKI	3.57	63 eP	46	57.30	0.1	
SMY	7.37	285 eP	47	49.40	-1.4	
		e	47	54.00		
SDN	9.03	59 P	48	12.60	-1.2	
KDC	14.00	55 eP	49	17.30	-3.5X	
SVW	14.06	39 P	49	23.60	1.9	
TTA	15.05	33 P	49	35.90	1.3	
ILT	16.66	354 iPc	49	57.00	2.0	
	1.4s	1530.00nm			5.9mb	
	Z 18s	122.00um				
	N 18s	93.00um				
	E 18s	42.00um				
PET	16.72	286 iPc	49	56.00	0.1	
	Z 18s	23.30um				
	N 14s	14.00um				
	E 18s	25.30um				
		eS	52	56.00		
PMR	17.01	44 e(P)	49	56.60	-2.8X	
PME	17.07	44 eP	49	58.20	-2.0	
	1.0s	42.50nm			4.5mb X	
IMA	17.95	28 eP	50	12.00	0.7	
SKR	18.68	279 iPc	50	18.00	-2.2	
	2.0s	3910.00nm			6.3mb	
	Z 20s	45.50um				
	N 20s	26.00um				
	E 20s	45.50um				
COL	19.15	35 eP	50	22.00	-3.6X	
	0.9s	276.00nm			5.5mb	
		eS	54	05.00		
FBA	19.15	35 eP	50	22.00	-3.6X	
PCA	20.71	52 eP	50	41.40	-1.1	
SEY	21.19	316 iPc	50	46.90	-0.3	
	1.6s	800.00nm			5.9mb	
	Z 18s	68.60um			6.1Msz	
	N 18s	31.80um				
	E 18s	42.40um				
		ePP	51	06.90		
		eS	54	30.90		
		iPcP	54	54.90		
MGD	21.32	308 iPc	50	48.00	-0.6	
	2.4s	930.00nm			5.8mb	
	Z 19s	57.00um			6.0Msz	
	N 19s	50.00um				
	E 19s	23.00um				
		ePP	51	09.00		
		ePPP	51	23.00		
		ePcP	54	48.00		
SIT	23.11	61 ePc	51	07.30	1.0	
INK	25.75	34 ePc	51	30.40	-1.1	
	1.1s	569.00nm			6.1mb	
KUR	25.80	271 iPc	51	31.70	-0.5	
	1.0s	1700.00nm			6.6mb	
		iPP	52	07.00		
YSS	28.22	278 iPc	51	54.70	0.4	

	1.3s	760.00nm			6.2mb	
	Z 20s	28.00um			5.9Msz	
	N 20s	26.70um				
	E 19s	25.50um				
		esP	52	06.30		
		ePP	52	44.00		
		eS	56	38.00		
KUSJ	28.83	270 P	51	57.50	-2.3	
HOOJ	30.10	269 P	52	10.00	-1.1	
MRRJ	31.46	271 P	52	21.00	-2.1	
YAK	31.56	312 iPc	52	20.70	-3.1X	
	1.0s	360.00nm			6.2mb	
		ePcP	55	14.00		
		eS	57	24.70		
TIK	32.04	330 iPc	52	26.40	-1.5	
	1.1s	70.00nm			5.5mb	
		epP	52	36.00	34kmX	
		esP	52	40.00		
		ePP	53	28.00		
		ePPP	53	45.00		
		ePcP	55	16.00		
		eS	57	35.00		
PGC	32.13	75 eP	52	31.50	2.6	
OPA	32.24	151 eP	52	30.50	0.4	
MBC	32.47	21 iPc	52	31.00	-0.6	
	1.0s	114.00nm			5.7mb	
OFUJ	32.98	266 P	52	36.00	-0.4	
GMW	33.01	76 eP	52	37.70	1.1	
YKA	33.05	47 eP	52	36.80	0.0	
RSNT	33.06	47 ePd	52	35.70	-1.2	
		ePcP	55	19.20		
		epPcP	55	33.00		
YKC	33.11	47 ePc	52	36.10	-1.3	
	0.9s	48.00nm			5.4mb	
		pP	53	52.00	406kmX	
HJH	33.76	267 P	52	43.00	-0.2	
LON	33.96	77 eP	52	46.30	1.3	
COR	34.09	81 iPc	52	47.00	1.0	
PNT	34.15	72 eP	52	46.00	-0.5	
	1.0s	564.00nm			6.5mb	
		pP	53	25.00	185kmX	
YAMJ	34.55	266 P	52	50.00	0.0	
SHR	35.08	264 P	52	55.00	0.4	
MIT	35.40	263 P	52	57.00	-0.2	
CHO	35.59	262 P	52	59.00	0.1	
FHC	35.69	87 eP	53	01.70	1.9	
		e	53	15.00		
KAKJ	35.69	263 Pc	52	59.60	-0.2	
TSK	35.73	263 iPc	52	59.40	-0.7	
AIK	35.76	267 P	53	01.00	0.7	
NIIJ	35.77	265 Pc	53	00.40	0.0	
NEW	36.10	72 eP	53	03.00	-0.1	
		e	53	17.00		
EDM	36.20	63 iPc	53	04.80	0.8	
	1.3s	1440.00nm			6.7mb	
MAE	36.26	264 P	53	05.00	0.5	
KYS	36.36	262 eP	53	07.80	2.4	
PNO	36.37	77 eP	53	05.80	0.4	
DDR	36.43	263 iPc	53	06.00	-0.1	
LGBM	36.50	85 eP	53	08.60	1.7	
		e	53	22.70		
CHJJ	36.53	264 Pc	53	06.80	0.0	
SRY	36.63	263 iPc	53	07.90	0.2	
MAT	36.70	265 iPc+	53	08.60	0.3	
	1.0s	295.00nm			6.1mb	
	Z 20s	15.30um			5.8Msz	
		eS	58	52.00		
WDC	36.72	87 eP	53	09.60	1.2	
		e	53	22.90		
		e	59	14.30		
OYM	36.78	263 iPc	53	09.10	0.1	
VLA	36.81	279 iP	53	09.00	-0.1	
	Z 18s	22.30um			6.0Msz	
	N 18s	16.40um				
	E 18s	6.70um				
		ePcP	55	31.00		
		iSSS	01	39.00		
MTMJ	36.93	265 Pc	53	10.30	0.0	
RXF	37.01	70 iPc	53	11.30	0.5	
LHD	37.03	71 iPc	53	12.70	1.7	
LDM	37.08	71 iP-	53	12.40	1.0	
AJI	37.11	262 P	53	12.00	0.3	
KTJ	37.18	262 Pc	53	12.40	0.1	
CLX	37.30	71 iPc	53	14.20	0.7	
MIN	37.43	86 eP	53	15.20	0.6	
		e	53	28.10		
MDJ	37.44	282 iPc	53	13.50	-0.9	

09d 18h

			pP	53	25.00	41kmX	IRK	47.80	305	ePc	54	36.90	-1.7	UER	53.34	309	iPd	55	19.40	-1.1
			PP	54	42.00			1.3s	490.00nm				6.4mb		2.0s	300.00nm				5.9mb
			PPP	55	05.00			Z 17s	8.52um				5.8MszX	ACO	53.52	75	ePc	55	20.80	-1.4
			S	59	00.00			N 16s	4.91um						1.6s	952.00nm				6.5mb
			sS	59	21.00			E 18s	11.70um					LUB	53.94	80	eP	55	25.00	-0.3
			SS	01	46.00				esP	54	50.00						epP	55	38.00	47kmX
TKY	37.54	265	P	53	17.00	1.6			ePcP	56	07.00			ANP	54.87	267	eP	55	32.00	-0.3
IIDJ	37.56	264	Pc	53	16.20	0.6			ePP	56	30.00			OCO	55.32	75	eP	55	34.80	-0.5
SHZ	37.59	263	P	53	16.00	0.3			eScS	04	28.00						e	55	49.40	
ORV	37.96	87	iPc	53	19.00	0.2			eSSS	06	00.00			WHN	55.57	277	iPc	55	35.80	-1.3
TK04	38.30	263	P	53	23.40	1.8	GOL	47.84	76	iPc	54	39.50	0.2				S	03	22.50	
TK03	38.39	262	P	53	24.30	2.0		1.1s	125.00nm				5.8mb				sS	03	39.50	
BKS	38.51	90	ePd	53	24.40	1.0		Z 18s	2.97um				5.3Msz	SIO	55.87	74	iPc	55	38.10	-1.2
	1.1s	250.00nm				5.9mb	GLD	47.90	76	iPc	54	40.80	1.1	ELT	55.90	314	iPc	55	36.00	-3.2X
			ePP	55	07.00			1.2s	202.00nm				6.0mb		2.3s	440.00nm				6.1mb
			ePPP	55	30.00			Z 20s	11.00um				5.8Msz				eScS	05	23.00	
			eS	59	21.00		RSON	47.99	57	iPc	54	39.80	-0.2	TUL	56.07	73	iPc+	55	39.10	-1.6
TUP	38.57	301	iPc	53	21.80	-1.9				ipP	54	47.00	24kmX		1.6s	976.00nm				6.6mb
	1.3s	290.00nm				5.9mb	BJI	48.21	285	iPc	54	41.50	-0.3		Z 20s	6.47um				5.7Msz
TK02	38.67	262	P	53	25.80	1.3		1.6s	707.00nm				6.4mb		N 21s	4.41um				
SES	38.68	66	iPc	53	24.60	-0.2		Z 20s	21.00um				6.1Msz		E 21s	5.10um				
	1.3s	580.00nm				6.2mb		N 20s	20.70um								e	55	49.70	
TSRJ	38.73	266	P	53	25.00	-0.3			eS	01	41.00						e	55	53.80	
MHC	39.21	90	eP	53	30.00	0.5			sS	01	52.00						iS	03	27.50	
ARN	39.27	90	iPc	53	31.00	1.1			ScS	04	30.00			NVS	56.09	317	iPc	55	38.70	-1.8
			i	53	46.30		ZAK	49.40	303	iPc	54	50.70	-0.1		3.0s	500.00nm				6.0mb
OWA	39.56	264	P	53	35.00	2.8		1.2s	920.00nm				6.7mb		Z 20s	31.00um				6.4Msz
JAS	39.59	88	eP	53	34.00	1.5		Z 17s	28.90um				6.3MszX				iSP	03	34.00	
TOTJ	39.84	267	P	53	35.00	0.5		N 18s	12.00um					RLO	56.35	73	iPc	55	41.00	-1.8
LRM	40.07	73	ePc	53	36.70	0.0		E 18s	13.30um					XAN	56.51	284	iPc	55	42.80	-1.2
BMN	40.12	83	ePd	53	37.90	0.9			esP	55	03.00						pP	55	56.00	47kmX
			i	53	51.70				ePcP	56	12.50						PcP	57	25.00	
BOD	40.17	308	eP	53	36.00	-1.0			eScS	04	40.50						PP	57	48.50	
	1.0s	380.00nm				6.1mb	MOY	49.84	306	iPc	54	53.40	-0.7				PPP	58	05.50	
SUM	40.18	265	P	53	38.00	0.7		1.5s	700.00nm				6.5mb				S	03	32.50	
CN2	40.40	284	iPc	53	37.70	-1.3	TIA	50.05	280	Pc	54	55.60	-0.4				ScS	05	28.00	
			pP	53	50.00	45kmX				pP	55	09.50	52kmX				SS	07	31.00	
			PP	55	11.00					sP	55	19.20		QZH	56.88	269	iPc	55	46.00	-0.6
PRI	40.57	91	eP	53	41.80	1.1				PP	56	52.70					sP	56	02.00	
PHAM	40.93	91	eP	53	45.00	1.5				S	02	07.20					S	03	38.00	
TKSJ	40.95	265	P	53	44.40	0.8				PS	02	25.00		ACM	57.29	61	eP	55	48.10	-1.2
SHK	41.44	267	iPc	53	47.90	0.2				sS	02	39.20		JCT	57.34	81	iP	55	48.00	-1.9
EUR	41.45	83	iP	53	49.20	1.2	PJG	50.11	236	eP	54	54.20	-2.5		1.0s	125.00nm				5.9mb
HMD	41.59	268	P	53	49.00	0.2	GUMO	50.11	236	eP	54	54.00	-2.7		Z 20s	8.16um				5.8Msz
FFC	41.70	56	iPc	53	49.80	0.2		Z 20s	2.30um				5.2Msz				i	56	02.10	
	0.9s	200.00nm				5.8mb	GUA	50.13	236	eP	54	53.20	-3.6X	SLM	57.51	67	eP	55	49.28	-1.6
IMW	42.01	75	eP	53	53.50	0.9		0.6s	96.00nm				6.0mb	BHO	57.66	74	e(P)	55	51.40	-0.6
ALE	42.04	11	eP	53	51.50	-0.6		Z 20s	3.97um				5.4Msz	FVM	57.84	68	ePc	55	51.20	-2.0
	1.0s	52.00nm				5.2mb X				eS	02	02.00		SCH	58.13	41	ePc	55	53.50	-1.6
			pP	56	00.00		ALQ	50.20	82	ePc	54	56.90	-0.6		1.0s	82.00nm				5.8mb
WKTM	42.18	89	eP	53	54.60	0.8		1.0s	116.00nm				5.9mb	KEV	58.14	352	iPc+	55	53.00	-1.9
VPEM	42.47	89	eP	53	53.60	-2.7		Z 20s	7.54um				5.7Msz		1.0s	200.00nm				6.1mb
BEI	42.50	77	eP	53	57.30	0.8			e	55	12.00				Z 16s	9.10um				6.0MszX
SHNJ	42.69	268	Pc	53	58.50	0.6	HHC	50.47	289	iPc	54	59.30	0.0				i	56	44.00	
MOUT	42.98	78	eP	54	00.50	-0.1				PP	56	55.00					ePP	58	04.00	
DUG	42.98	80	ePc	54	00.90	0.5				S	02	15.70					eS	04	08.00	
PAS	43.41	91	iPd	54	05.00	1.2	SSE	50.93	273	Pc+	55	02.90	0.2				eSS	07	52.00	
			ePP	56	11.00			1.2s	541.00nm				6.4mb	LZH	58.16	289	iPc	55	55.50	-0.2
			ePPP	56	20.00			Z 20s	4.10um				5.4Msz				pP	56	08.50	46kmX
			eScP	59	41.00			E 17s	4.40um								S	03	58.00	
			iS	00	54.00				pP	55	16.00	48kmX		GTA	58.24	295	iPc	55	54.60	-1.6
			eScS	03	59.00				eS	02	21.00						pP	56	06.00	39kmX
BDW	43.47	75	iPc	54	05.00	0.5			i	02	35.00						PPP	59	33.50	
	1.2s	217.00nm				5.8mb	DAG	51.10	7	iPc	55	01.50	-2.0				S	03	58.50	
FCC	43.77	48	iPc	54	05.60	-0.8		0.7s	23.30nm				5.3mb				ScS	05	39.30	
			pP	55	19.40	371kmX				i	56	17.00		IN2	58.60	64	iPc	55	57.40	-1.1
BKU	43.79	82	iPc	54	07.90	0.8				i	00	12.00		POW	58.64	70	ePc	55	55.79	-3.1X
SDW	43.80	90	ePc	54	07.20	0.1	FRB	51.41	33	ePc	55	04.50	-1.4	RMB	58.67	69	ePc	55	56.58	-2.5
MSU	44.39	82	ePd	54	12.70	0.7	BTO	51.54	289	iPc	55	07.50	0.1	IN1	58.69	63	iPc	55	57.40	-1.7
KAGJ	44.80	265	P	54	14.90	-0.1				pP	55	20.00	45kmX	AAM	58.72	60	ePc	55	58.70	-0.7
KHE	45.06	349	iPc	54	17.00	0.4				ePP	57	08.00		BPIL	58.75	67	ePc	55	57.73	-1.9
			iPcP	55	56.00					S	02	29.00		OLY	58.92	71	ePc	55	58.10	-2.7
			iPP	56	06.00		NJ2	51.73	275	iPc	55	07.90	-0.9	ELC	59.01	68	ePc	55	59.19	-2.2
			ePPP	56	38.00					sP	55	23.00		CSIL	59.03	67	ePc	55	59.29	-2.2
			eScS	04	10.00					S	02	27.00		UTO	59.20	61	iPc	56	03.00	0.3
MMU	45.13	81	ePc	54	18.70	0.7	LHC	51.75	58	iPc	55	08.70	-0.1	WDIN	59.33	66	ePc	56	01.68	-1.9
NRI	45.62	331	iPc	54	19.60	-1.4		1.0s	409.00nm				6.3mb	AN11	59.35	62	ePc	56	02.00	-1.7
	1.4s	150.00nm				5.7mb	TIY	51.94	285	iPc	55	10.90	0.4	ELF	59.37	58	P	56	03.70	-0.1
	Z 20s	10.00um				5.8Msz				pP	55	24.50	50kmX	AN12	59.38	62	ePc	56	02.60	-1.3
	N 20s	5.00um								sP	55	28.00		DLA	59.46	59	P	56	04.80	0.3
	E 20s	4.50um								PP	57	15.00		APA	59.55	348	iPc	56	03.00	-1.8
			esP	54	32.00					S	02	31.00			1.5s	250.00nm				6.1mb
			iPcP	55	58.00					sS	02	54.00					ePP	58	18.00	
			ePP	56	03.00		GDH	52.03	23	iPd	55	10.10	-0.5				ePS	04	28.00	
			ePPP	56	49.00			1.1s	147.00nm				5.9mb	IN3	59.62	64	eP	56	04.10	-1.5
RSSD	46.00	70	ePc	54	24.00	-0.7				i	55	51.00		AN1	59.71	62	ePc	56	05.10	-1.1
GLA	46.23	90	iPd	54	26.50	0.1				i	56	23.00		NKT	59.81	69	eP	56	05.23	-1.7

09d 18h

IN4	59.90	63	iPc	56	05.70	-1.8	MIM	64.09	49	iPc	56	34.90	-0.6	LSA	70.15	293	iPc	57	15.50	1.1
SOD	60.48	351	iPc	56	09.60	-1.5	GPD	64.51	56	ePd	56	38.20	0.0	VAH	70.30	153	iP	57	14.20	-0.5
			i	56	54.00		CVL	64.58	61	ePd	56	39.00	0.2		1.5s	36.00nm			5.2mb X	
			eP'P'	25	29.00		HNR	64.64	209	e(P)	56	56.00	16.8X	RUV	70.33	153	iP	57	14.40	-0.5
KIR	60.54	354	iP	56	10.00	-1.6	NA12	64.90	60	ePd	56	40.50	-0.3		1.5s	390.00nm			6.2mb	
SEM	60.56	315	iPc	56	09.80	-2.1	SUF	65.06	350	iP	56	40.20	-1.3	OBN	70.73	342	iPc	57	16.10	-0.8
			iPcP	56	56.00			0.8s	202.00nm			6.3mb			1.2s	360.00nm			6.3mb	
			eS	04	10.60		WES	65.10	53	eP	56	42.50	0.5			iPcP	57	37.00		
			eScS	05	58.20		MD2	65.17	54	eP	56	43.00	0.5			ePPP	01	40.00		
OTT	60.73	53	iPc	56	11.60	-1.5	EMM	65.20	49	ePc	56	42.20	-0.4			eS	06	28.00		
	1.0s	573.00nm				6.7mb	CGP	65.65	252	iPc	56	43.20	-2.6	KSH	70.81	310	eP	57	19.00	1.1
			pP	56	24.50	46kmX	JAY	66.00	231	ePd	56	47.50	-0.6			eS	06	31.00		
DHN	61.27	57	ePc	56	16.50	-0.3	DAV	66.22	250	ePc+	56	48.00	-1.5	MNI	71.19	248	ePd	57	20.00	-0.3
PWLA	61.29	69	eP	56	15.50	-1.5		1.5s	622.00nm			6.5mb			1.5s	322.00nm			6.1mb	
GZH	61.51	272	Pc	56	18.70	0.1				eS	05	36.00		ANR	71.49	313	iPc	57	21.90	0.1
			S	04	41.00		KMI	66.61	281	iPc+	56	51.50	-0.7		1.3s	1500.00nm			6.9mb	
			sS	04	55.50			4.0s	3.20nm			3.8mb X			Z 16s	8.00um			6.1MszX	
HKC	61.56	271	iP	56	19.00	0.0		N 16s	4.50um						N 16s	13.00um				
			iS	04	50.00					sP	57	06.00			E 16s	7.00um				
PTN	61.68	53	iPc	56	18.70	-0.8				PcP	57	22.00				iPcP	57	36.50		
MNT	61.69	52	iPc	56	18.00	-1.6				PP	59	20.00				iS	06	40.70		
	1.0s	340.00nm				6.4mb				iS	05	43.00				iPPS	07	24.20		
			pP	56	31.50	48kmX				sS	05	56.00		AFR	71.91	156	iP	57	23.80	-0.6
WMQ	61.73	306	iPc	56	19.00	-1.0				SS	10	06.00			1.5s	280.00nm			6.0mb	
			pP	56	31.00	41kmX	LAT	66.78	223	eP	57	04.00	11.0X	TAS	72.42	315	iPc	57	26.60	-0.7
			PcS	01	04.00		TLG	67.20	311	iPc	56	55.00	-0.5		2.0s	1000.00nm			6.5mb	
			S	04	42.00			2.1s	280.00nm			6.0mb			Z 20s	15.00um			6.3Msz	
			ScS	05	09.00			Z 18s	7.00um			5.9Msz			N 17s	12.00um				
			SS	08	58.00					ePPP	01	02.00			E 15s	3.60um				
AKU	61.76	11	iP	56	19.60	-0.2				eSP	06	08.00				ePPP	00	04.60		
	1.7s	154.00nm				5.9mb	PRZ	67.31	310	iPd	56	56.00	-0.4			ePPP	01	46.60		
			i	25	43.30			3.2s	2300.00nm			6.7mb X				eS	06	46.10		
CD2	61.81	285	iPc	56	20.00	-0.7		Z 17s	9.30um			6.1MszX				eSS	11	26.60		
			pP	56	33.00	46kmX		N 17s	13.20um					MUD	72.43	358	iPc	57	28.00	1.0
			sP	04	42.50			E 17s	4.40um						0.9s	210.00nm			6.1mb	
			sS	04	59.00		NUR	67.39	350	iPc+	56	55.00	-1.3	SHL	72.82	289	iP	57	30.30	0.2
			eScS	06	09.00			1.0s	368.00nm			6.4mb				iS	06	52.60		
RSNY	61.92	53	iPc	56	20.30	-0.9		Z 20s	12.10um			6.1Msz		COP	73.11	356	iPc+	57	30.90	-0.1
RSCP	62.29	67	iPd	56	22.70	-1.1				i	57	08.00			0.8s	358.00nm			6.4mb	
INY	62.43	56	P	56	24.80	0.2				i	57	22.50			Z 18s	6.19um			5.9Msz	
APH	62.44	54	iPd	56	24.20	-0.5				ePP	59	24.00				i	57	44.00		
CNP	62.47	255	ePd	56	26.60	1.5				eS	05	20.00				eS	07	27.00		
DVT	62.79	51	eP	56	24.10	-2.8				eSS	10	20.00		EKA	73.33	5	Pd	57	32.80	0.4
SVE	63.08	330	iPc	56	28.00	-0.7				eP'P'	25	24.00			1.2s	146.00nm			5.8mb	
	2.8s	570.00nm				6.2mb	AAA	67.40	312	iPc	56	56.70	-0.1	AAI	73.50	242	ePd	57	33.50	-0.4
	Z 18s	23.50um				6.4Msz	PUL	67.40	347	iPc	56	55.00	-1.4		0.8s	104.00nm			5.9mb	
	N 18s	10.50um						1.4s	470.00nm			6.4mb		CHG	73.64	280	iPc+	57	34.00	-0.7
	E 18s	13.00um						Z 20s	10.00um			6.0Msz			1.0s	130.00nm			5.9mb	
			ePcP	57	05.50			N 20s	9.10um						Z 20s	4.96um			5.8Msz	
			ePPP	00	21.00					isP	57	08.00			N 18s	5.33um				
			eS	04	57.00					iPcP	57	22.00			E 20s	5.67um				
			ePS	05	15.00					ePP	59	25.00				eS	07	22.00		
GYA	63.22	279	Pc	56	29.50	-0.6				ePPP	01	10.00		CHTO	73.64	280	P	57	34.00	-0.7
			pP	56	42.00	43kmX				eS	05	46.00		GAR	73.84	313	iPc	57	35.40	-0.4
			S	05	00.00					eSP	06	02.00			1.5s	1150.00nm			6.6mb	
			PS	05	28.00					ePS	06	12.00			Z 28s	8.00um			5.9MszX	
			ScS	06	44.00					eScS	06	44.00			E 18s	5.00um				
CBM	63.27	48	iPc	56	29.20	-0.9				eSS	10	11.00				eS	07	03.00		
PLP	63.34	254	iPc	56	30.00	-0.8	NB2	67.79	357	P	56	57.60	-1.3	DMU	74.49	8	iPc	57	38.70	-0.4
KJF	63.45	350	iPc+	56	30.00	-1.0		1.1s	277.00nm			6.3mb			1.1s	270.00nm			6.2mb	
	1.0s	270.00nm				6.3mb	TZZ	68.15	229	eP	57	01.00	-0.7	KHO	74.50	311	iPd	57	40.40	0.7
	Z 16s	8.00um				6.0MszX	HFS	68.60	356	iP	57	02.10	-1.8		9.0s	3600.00nm			6.4mb X	
			i	56	44.00			0.5s	99.00nm			6.1mb			Z 18s	8.00um			6.1Msz	
			i	57	07.00		UPP	68.65	354	iPc	57	03.00	-1.1		N 18s	4.20um				
			ePP	58	52.00					i	57	16.20			E 18s	2.50um				
			ePPP	00	36.00					i	25	15.20				eS	07	13.00		
			eS	05	00.00		ALOT	68.69	218	eP	57	04.00	-0.9	SAM	74.78	316	iPc	57	41.00	-0.1
			eSS	09	20.00		FRU	68.82	313	iPc	57	05.40	-0.2		3.0s	2500.00nm			6.7mb	
			eP'P'	25	30.00			2.0s	1260.00nm			6.6mb			Z 18s	11.80um			6.2Msz	
BNH	63.51	51	iPc	56	31.10	-0.6		Z 18s	14.00um			6.2Msz			N 17s	7.00um				
NAV	63.78	63	ePc	56	33.20	-0.4		E 18s	11.00um							iPcP	57	54.50		
ARU	64.06	331	iPc	56	33.40	-1.7				epP	57	16.00	34kmX			ePPP	02	14.00		
	2.0s	400.00nm				6.2mb				ePcP	57	34.00				eS	07	14.00		
	Z 20s	15.50um				6.2Msz				eS	06	08.00				iSP	07	48.00		
	N 20s	7.00um					PMG	69.20	221	eP	57	03.00	-5.1X	BDT	74.79	279	eP	57	39.00	-2.4
	E 20s	8.50um					NRN	69.26	311	iPd	57	08.40	-0.3		1.0s	311.00nm			6.3mb	
			isP	56	48.00		STJ	69.32	38	ePc	57	08.50	0.1	DSH	74.90	314	iPc	57	42.30	0.5
			iPcP	57	09.00			1.3s	828.00nm			6.6mb			Z 18s	12.50um			6.3Msz	
			ePPP	00	26.50		MOS	69.99	342	iPc	57	11.00	-1.4			eS	07	17.20		
			eS	05	08.00			2.0s	580.00nm			6.3mb		KUL	74.99	313	iPc	57	42.40	0.1
			eSP	05	23.00					isP	57	24.00			2.9s	2600.00nm			6.7mb	
			eScS	06	20.00					ePcP	57	34.00			N 17s	2.00um				
BLA	64.06	62	iP+	56	34.80	-0.7				eS	06	07.00			E 15s	10.50um				
	1.2s	211.00nm				6.1mb	PMO	70.00	153	iP	57	12.70	-0.2			eS	07	18.10		
	Z 20s	14.20um				6.2Msz		1.5s	290.00nm			6.1mb		DCN	75.01	8	iPc	57	41.90	-0.2
			iS	05	11.20		TPT	70.07	153	iP	57	12.80	-0.5		1.2s	280.00nm			6.1mb	
			iPPS	05	30.00			1.5s	350.00nm			6.2mb		DDK	75.04	8	iPc	57	42.20	-0.1

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        1.2s   220.00nm            6.0mb
PKI     75.04 295 iPc    57 43.30   0.1
DLE     75.12   8 iPc    57 42.60  -0.2
        1.0s   145.00nm            5.9mb
DMN     75.19 296 iPc    57 44.40   0.5
PCT     75.24 275 eP     57 45.50   1.5
        1.0s    89.70nm            5.7mb
NOU     75.39 199 iPd    57 47.50   2.9
HAM     75.41 358 iPc    57 45.00   0.6
ETA     75.74   8 iPc    57 46.40   0.1
        1.2s   430.00nm            6.3mb
ECB     76.02   8 iPc    57 47.50  -0.3
VAL     76.10  10 iP     57 48.20  -0.1
                  iS     07 28.00
WIT     76.12 360 iPc    57 49.90   1.5
ECP     76.24   8 iPc    57 49.00  -0.1
        1.3s   460.00nm            6.3mb
BRL     76.27 355 iPc    57 50.00   0.8
BRN     76.33 355 iPc    57 50.20   0.6
DBN     76.83   0 iP+    57 52.50   0.1
     Z  19s      3.60um            5.7Msz
                  ePPP   02 37.00
                  eS     08 00.00
WTS     76.94 359 iPc    57 53.30   0.3
        1.0s   317.00nm            6.3mb
CLL     77.45 355 iPc    57 55.70  -0.1
        1.5s   660.00nm            6.4mb
                  i      58 08.40
                  eS     07 42.00
KSP     77.71 353 iPc    57 56.80  -0.5
BRG     77.83 355 iPc+   57 58.00   0.0
        1.2s   505.00nm            6.4mb
     Z  19s      4.50um            5.8Msz
     N  19s      5.50um
     E  19s      9.00um
                  i      58 11.20
                  eS     07 48.00
LVV     77.94 348 iP+    57 58.40  -0.2
     Z  19s      9.80um            6.2Msz
     E  19s      5.30um
                  iPcP   58 11.50
                  ePP    01 00.00
                  ePPP   02 48.00
                  iScS   08 10.00
                  eSPP   08 46.00
UCC     78.13   1 Pc-    57 59.70   0.2
                  e      08 10.00
ENN     78.17 360 iPc    58 00.30   0.5
        1.0s   452.00nm            6.4mb
MOX     78.17 356 iPc    58 00.00   0.1
        2.2s   750.00nm            6.3mb
     Z  16s      3.80um            5.8MszX
     N  17s      3.40um
     E  18s      1.80um
                  i      58 13.50
                  eS     07 52.00
                  eSS    13 15.00
KRA     78.18 351 iPc    57 59.30  -0.5
        1.0s   102.00nm            5.8mb
                  e      58 09.70
                  i      58 15.30
                  e      08 48.00
HOF     78.50 356 iPc    58 01.90   0.2
        1.3s    48.00nm            5.3mb
     Z  17s      2.80um            5.7MszX
NDI     78.67 302 iPc    58 02.50  -0.5
        1.0s   280.00nm            6.2mb
     Z  20s      7.45um            6.0Msz
     N  20s      6.03um
     E  20s      3.19um
                  iS     08 11.50
PRU     78.68 354 iPc    58 02.70   0.1
        1.2s   248.00nm            6.1mb
     Z  19s      6.40um            6.0Msz
     N  19s      4.60um
     E  19s      1.00um
                  e      58 16.50
                  PP     00 49.50
                  e      01 26.40
                  eS     07 58.00
TNS     78.69 358 ePc    58 03.00   0.2
DOU     78.84   1 Pc+    58 03.50   0.0
        1.2s  1900.00nm            7.0mb
                  S      08 03.00
SPC     79.00 350 iPc    58 04.50  -0.2
GRF     79.14 356 iPc    58 06.10   0.9
        1.1s   990.00nm            6.7mb
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     Z  18s      3.60um            5.8Msz
                  eS     08 02.00
                  eSKS   08 18.00
GRFO    79.14 356 P      58 06.00   0.8
CTA     79.23 218 iPc    58 05.10  -0.9
        1.4s    60.50nm            5.4mb
                  i      58 22.20
                  iS     19 08.00
                  i      19 11.00
MAK     79.24 330 iPc    58 06.60   0.8
        3.0s  3000.00nm            6.8mb
                  eScS   08 25.00
WLF     79.27 360 P+     58 08.00   2.2
                  S      08 10.00
                  e      08 26.00
UZH     79.32 349 iPc    58 07.00   0.9
        1.2s   200.00nm            6.0mb
                  iPcP   58 14.00
                  eScS   08 20.00
GRO     79.47 332 iPc    58 07.00   0.0
        2.0s   660.00nm            6.3mb
                  iS     08 11.00
KHC     79.59 355 iPc    58 08.20   0.5
     Z  18s      4.40um            5.8Msz
     N  18s      4.40um
     E  18s      4.10um
                  e      58 21.80
                  e      58 54.00
                  S      08 10.00
PYA     79.60 334 iPc    58 08.00   0.2
        1.5s   450.00nm            6.2mb
     Z  22s      9.60um            6.1Msz
                  iPP    01 16.00
                  iScS   08 22.00
                  iPPS   09 12.00
                  eSSS   16 36.00
WET     79.62 355 iPc    58 08.10   0.3
        1.2s   261.00nm            6.1mb
     Z  19s      3.50um            5.7Msz
MTN     79.63 234 iPd    58 08.00  -0.2
JOS     79.66 350 iPc    58 08.00   0.0
        0.8s    80.00nm            5.8mb
MKS     79.69 248 ePd    58 09.50   0.9
ASH     79.85 320 iPd    58 10.00   0.8
     N  16s      9.80um
     E  16s      9.80um
                  ePcP   58 14.00
                  esP    58 24.00
                  eSKS   08 20.00
GWF     79.95 359 iPc    58 10.30   0.7
KIS     79.95 344 iPc    58 09.00  -0.5
        3.0s  2200.00nm            6.6mb
                  iPcP   58 24.00
                  iPP    01 10.00
                  iPPP   02 59.00
                  eSKS   08 19.00
                  iSP    08 46.00
VAN     79.95 321 iPc    58 09.80   0.1
        1.5s   420.00nm            6.2mb
     Z  18s     14.00um            6.3Msz
                  iPcP   58 19.80
                  eScS   08 26.00
IAS     79.99 345 eP     58 10.00   0.2
FLN     80.03   4 iPc    58 10.20   0.3
        1.1s   329.00nm            6.2mb
STU     80.13 358 iPc+   58 11.00   0.5
        1.0s   360.00nm            6.3mb
     Z  20s      3.55um            5.7Msz
LDF     80.21   4 iPc    58 11.00   0.1
        1.1s   348.00nm            6.3mb
BUH     80.24 358 iPc    58 11.70   0.5
VKA     80.27 353 iPc    58 11.60   0.3
        3.0s   873.00nm            6.2mb
     Z  18s      3.20um            5.7Msz
ZST     80.28 352 iP     58 11.20  -0.1
ANN     80.28 338 iPd    58 11.00  -0.3
        9.0s  1800.00nm            6.1mb X
                  iScS   08 31.00
PSZ     80.29 350 iPc    58 11.30  -0.2
GRR     80.38   5 iPc    58 12.20   0.4
        1.1s   386.00nm            6.3mb
CDF     80.52 359 iPc    58 13.20   0.5
SRO     80.55 352 iPc    58 13.00   0.3
     N  20s      4.60um
     E  20s      3.30um
                  e(S)   08 49.50
KMR     80.63 354 iP+    58 13.70   0.5
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                  e      08 30.00
FUR     80.67 356 iPc    58 13.90   0.5
        1.2s   500.00nm            6.4mb
ECH     80.72 359 iPc    58 14.20   0.6
LPF     80.73   5 iPc    58 14.20   0.5
        1.1s   405.00nm            6.3mb
MHI     80.81 319 iPc+   58 15.10   0.7
        1.0s   204.00nm            6.1mb
                  eS     08 33.00
BUD     80.81 351 iPc    58 14.40   0.3
        1.4s   320.00nm            6.1mb
BAK     80.82 327 iPd    58 17.00   2.8
        3.0s  *******nm            7.8mb X
SOC     80.91 336 iPc    58 15.00   0.3
        1.4s   200.00nm            5.9mb
                  isP    58 29.00
                  ePP    01 14.00
HAU     80.93 360 iPc    58 15.50   0.7
        1.0s   469.00nm            6.4mb
SIM     80.93 340 iPc    58 15.00   0.2
                  eS     08 22.00
SHE     81.02 328 iPd    58 16.00   0.8
BHG     81.04 355 iPc    58 16.10   0.8
        1.4s   267.00nm            6.0mb
CJR     81.04 348 eP     58 16.90   1.5
BAF     81.10 359 iPc    58 16.20   0.5
BSF     81.10 359 iPc    58 16.30   0.5
        1.1s   567.00nm            6.5mb
MTA     81.25 332 iPc    58 18.00   1.6
GAP     81.36 356 iPc    58 18.00   0.9
        1.2s   261.00nm            6.1mb
VRI     81.42 345 iPd    58 17.00  -0.3
ZUL     81.44 358 iP+    58 17.70   0.3
SNG     81.48 271 eP     58 18.50   0.4
CVO     81.55 346 iPd    58 19.00   0.9
BKR     81.59 332 iPc    58 18.80   0.3
        1.3s   220.00nm            6.0mb
KBA     81.65 355 iPc    58 19.80   1.0
        1.0s   488.00nm            6.5mb
                  i      01 13.90
                  (sS)   08 37.00
                  e      08 42.80
LOR     81.66   1 iPc    58 19.30   0.7
BRD     81.71 345 iPd    58 20.00   1.1
KRV     81.74 330 iPd    58 19.00  -0.1
     Z  16s      4.00um            5.9MszX
     N  16s      6.00um
     E  16s      6.00um
                  ePP    01 30.00
                  ePPP   03 16.00
                  eS     08 30.00
                  eSKS   08 35.00
                  ePS    09 25.00
CFR     81.85 344 iPd    58 20.00   0.5
SSF     81.86   2 iPc    58 20.50   0.9
        1.0s   406.00nm            6.4mb
MLR     81.91 346 iPd    58 20.00  -0.1
OGA     81.97 356 iPc    58 21.40   0.9
        1.1s   212.00nm            6.1mb
LLS     82.03 358 iP+    58 21.50   0.7
AVF     82.13   2 iPc    58 21.70   0.7
        1.1s   510.00nm            6.5mb
ISR     82.16 345 iPd    58 21.50   0.2
MFF     82.20   4 iPc    58 22.20   0.8
        1.0s   444.00nm            6.5mb
CMP     82.26 346 iPc    58 20.00  -1.8
RBL     82.27 355 Pd     58 22.00   0.1
SMF     82.28   1 iPc    58 22.50   0.7
        1.0s   575.00nm            6.6mb
COZ     82.31 347 iPd    58 23.00   0.8
BGF     82.35   2 iPc    58 22.90   0.7
        1.1s   480.00nm            6.5mb
LEN     82.38 332 iPc    58 24.00   1.4
TLB     82.45 344 iPd    58 23.00   0.3
TCF     82.60   3 iPc    58 24.20   0.7
        1.0s   234.00nm            6.2mb
LJU     82.61 354 ePc    58 23.10  -0.4
                  eS     08 39.50
LSF     82.62   3 iPc    58 24.20   0.6
        1.0s   475.00nm            6.5mb
QUE     82.64 310 iPc+   58 25.00   0.8
                  eS     08 41.00
MZF     82.68   2 iPc    58 24.90   1.0
        1.0s   297.00nm            6.3mb
ERE     82.73 331 iPc    58 26.00   1.7
                  eS     08 45.00
CTI     82.76 356 Pc     58 24.50   0.0
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09d 18h

1.1s 180.00nm 6.1mb
(S) 08 42.00
GRS 82.78 330 iPc 58 25.20 0.5
1.8s 450.00nm 6.2mb
ipP 58 32.60 23kmX
isP 58 38.00
iS 08 43.00
TMA 82.80 358 iP+ 58 25.00 0.3
DIX 82.85 359 iP+ 58 26.00 0.9
MMK 82.87 359 iP+ 58 26.30 1.1
CEY 82.92 354 iPc 58 25.00 -0.2
DRA 82.95 347 eP 58 26.00 0.7
BUC1 83.01 346 iPc 58 24.50 -1.1
KHI 83.02 318 iP 58 26.50 0.4
SSR 83.10 349 eP 58 27.00 0.9
IPM 83.23 269 ePc 58 27.40 0.2
1.0s 56.80nm 5.6mb
SAL 83.25 357 Pc 58 27.00 0.2
ORO 83.30 359 Pc 58 28.00 0.8
NAK 83.35 330 iPd 58 27.90 0.5
RJF 83.56 3 iPc 58 29.00 0.6
1.2s 315.00nm 6.3mb
KGM 83.79 265 ePc 58 30.50 0.5
LFF 83.90 4 iPc 58 31.00 0.9
1.2s 828.00nm 6.8mb
CAF 83.96 3 iPc 58 31.40 0.9
1.2s 563.00nm 6.6mb
VG1 83.97 358 Pd 58 32.00 1.5
TAB 84.09 329 eP+ 58 32.00 0.6
WB2 84.15 228 iPc 58 30.20 -1.4
i 58 43.80
WRA 84.16 228 Pc 58 30.50 -1.2
1.0s 30.10nm 5.4mb
LPO 84.17 3 iPc 58 32.30 0.8
1.2s 765.00nm 6.7mb
KVT 84.18 338 iP 58 32.60 0.9
PVL 84.31 346 iPd 58 32.00 -0.3
STV 84.69 359 Pc 58 34.00 -0.2
PRT 84.95 356 P 58 38.50 3.1X
pP 58 55.00 58kmX
S 08 57.00
FIR 85.05 356 iPc 58 37.00 1.1
iS 08 58.00
VTS 85.14 347 iPc 58 37.00 0.7
DMK 85.18 344 iPd 58 36.60 0.0
DIM 85.33 345 iPc 58 39.00 1.7
FRF 85.38 359 iPc 58 38.50 0.9
1.1s 545.00nm 6.7mb
LRG 85.48 360 iPc 58 39.40 1.3
1.1s 545.00nm 6.7mb
LMR 85.60 360 iPc 58 39.80 1.1
1.1s 567.00nm 6.7mb
TSI 85.61 270 e(P) 58 39.00 -0.1
ISK 85.68 343 eP 58 39.20 0.1
TRT 85.70 252 iPc 58 38.50 -1.0
1.0s 101.00nm 6.0mb
CTT 85.72 343 iP 58 38.30 -1.0
KDZ 85.76 345 iPc 58 40.00 0.5
EPF 85.79 4 iPc 58 39.70 0.0
1.2s 324.00nm 6.4mb
HRT 85.80 342 iP 58 40.30 0.5
SKO 85.99 348 iPc 58 41.50 0.8
1.3s 1300.00nm 7.0mb
i 58 55.00
eS 09 04.00
iSS 15 04.00
YLV 86.10 342 eP 58 41.30 -0.1
PDI 86.16 355 Pc 58 42.00 0.5
GPA 86.19 342 iP 58 42.30 0.6
LGR 86.20 6 iPc 58 42.70 1.0
1.4s 1.27nm 4.0mb X
iPP 02 04.20
eS 09 14.70
MFT 86.27 344 iP 58 42.30 0.1
CVF 86.34 358 iPc 58 43.10 0.7
1.0s 563.00nm 6.8mb
AQU 86.36 354 Pc 58 43.50 1.0
MNS 86.37 355 Pc 58 42.50 0.0
1.2s 450.00nm 6.6mb
(S) 08 46.00
VAY 86.48 347 iPc 58 44.30 1.2
SRS 86.54 347 eP 58 53.70 10.3X
KNT 86.59 347 eP 58 54.50 10.8X
MSL 86.64 331 iP 58 44.50 0.6
SJG 86.71 65 iP 58 45.20 0.6
1.2s 195.00nm 6.2mb
Z 20s 12.10um 6.3Msz

i 58 58.50
HYB 86.90 294 ePc 58 45.00 -0.5
1.0s 360.00nm 6.6mb
OHR 86.91 349 iPc 58 45.90 0.6
i 58 58.60
iS 09 09.20
RMP 86.94 355 Pc 58 45.50 0.2
1.4s 1.60nm 4.1mb X
e 02 20.00
PTO 86.94 11 iP 58 45.20 -0.1
eS 09 10.00
COO 86.97 209 eP 58 47.00 1.6
DUI 86.98 354 Pc 58 46.20 0.7
RDP 86.99 355 Pc 58 45.80 0.1
FOG 87.11 353 P 58 47.50 1.4
DST 87.18 343 iPc 58 45.90 -0.7
KER 87.21 327 eP 58 48.00 1.0
EZN 87.37 344 iPc 58 47.10 -0.3
BRT 87.53 351 Pd 58 48.50 0.4
ASPA 87.58 226 eP 58 48.00 -0.5
PAIG 87.69 346 eP 58 48.60 -0.4
EBR 88.00 4 eP 58 50.00 -0.4
eS 09 33.00
LCI 88.00 351 Pc 58 51.00 0.6
1.4s 1700.00nm 7.1mb
SGO 88.01 353 Pc 58 50.20 -0.2
1.7s 500.00nm 6.5mb
(S) 09 02.50
ORI 88.42 352 Pc 58 53.50 1.1
POO 88.64 298 iPc 58 54.00 0.1
KRP 89.45 188 P 58 58.00 1.0
pP 59 09.00 35kmX
ATH 89.60 346 eP 58 58.00 -0.1
BPA 89.98 62 eP 59 00.00 -0.2
LGN 90.03 74 eP 59 16.50 16.1X
ALI 90.41 5 iP- 59 03.00 1.2
GBA 90.59 293 P 59 02.40 -0.5
1.3s 23.00nm 5.3mb
GIB 90.67 354 (P) 59 02.00 -1.2
ERC 90.71 355 (P) 59 02.50 -0.7
PAG 90.90 63 eP 59 05.00 0.5
MGG 91.19 63 eP 59 08.00 2.3
TOV 91.20 73 ePc 59 07.80 1.9
1.0s 163.00nm 6.4mb
UAV 91.32 75 eP 59 04.00 -2.6
MEI 91.38 353 P 59 05.50 -0.8
SDV 91.41 74 eP 59 08.20 1.2
1.0s 103.00nm 6.2mb
CHN 91.44 80 eP 59 09.00 1.9
YOU 91.49 210 iPd 59 07.50 0.9
i 59 20.60
STK 91.65 216 eP 59 07.00 -0.3
FUO 92.20 79 eP 59 12.00 1.2
CAN 92.26 209 eP 59 09.50 -0.6
i 59 24.00
CAR 92.33 70 iPd 59 12.00 0.9
1.0s 48.00nm 5.9mb
Z 20s 2.13um 5.6Msz
N 20s 2.84um
E 20s 1.42um
MBL 92.45 239 iPd 59 11.00 -0.3
BOG 92.66 79 ePKP 59 14.00 1.0
WAM 93.10 209 eP 59 16.70 2.8
WBN 93.13 231 eP 59 14.00 -0.3
JER 93.22 335 ePc 59 15.00 0.0
PSO 93.32 84 eP 59 16.50 0.5
NAU 95.91 241 eP 59 27.00 -0.1
KIC 121.71 12 ePKP 04 54.30 -0.5
e 05 09.90
SOB1 123.17 59 ePKP 04 57.40 -0.2
e 05 11.20
BNG 123.29 345 iPKPc 04 57.00 -0.9
1.2s 55.00nm
NAI 123.64 322 ePKP 05 01.00 2.2
1.0s 35.00nm
ITR 124.11 56 ePKP 04 54.10 -5.4X
BAO 124.36 71 PKP 05 00.00 0.0
VAO 130.64 75 ePKP 05 11.90 0.1
e 05 25.60
BMA 132.10 73 ePKP 05 15.10 0.6
e 05 29.10
RDJ 132.81 72 ePKP 05 23.60 7.8X
AVY 133.84 299 ePKPc 05 17.00 -1.1
NPA 134.96 311 ePKP 05 20.00 -0.1
epPKP 05 35.00
e(PKS)08 52.00
MTD 139.82 320 ePKP 05 21.00 -8.2X

ipPKP 05 43.00
i 08 26.00
KRI 140.64 323 ePKP 05 24.00 -6.8X
ipPKP 05 45.00
i 08 27.00
SPA 141.25 180 e(PKP)05 22.30 -8.1X
1.0s 11.50nm
Z 18s 2.06um 5.9Msz
BUL 144.03 322 iPKPd 05 34.00 -2.6
ipPKP 05 48.00
CNG 147.92 311 iPKPd 05 44.00 1.4
1.0s 900.00nm
ipPKP 05 57.00
i(PKS)08 11.00
MAW 148.32 218 iPKPd 05 46.10 4.1X
1.2s 172.00nm
JOZ 148.94 310 iPKPc 05 46.50 2.2
i 06 00.20
SLR 149.17 318 iPKPc 05 44.20 -0.7
1.0s 198.00nm
Z 18s 4.88um 6.3Msz
PRE 149.23 318 iPKPc 05 49.50 4.5X
1.2s 992.00nm
EVA 149.51 316 iPKPc 05 50.20 4.8X
i 05 55.10
BPI 149.67 318 iPKPd 05 44.00 -1.7
i 05 49.00
PRY 150.56 318 iPKPc 05 52.00 5.1X
BFS 150.82 319 iPKPc 05 52.10 4.8X
0.8s 340.00nm
SWZ 151.66 321 iPKPc 05 48.50 -0.1
i 05 55.00
SEK 151.72 316 iPKPc 05 54.00 5.4X
VIR 151.83 318 iPKPd 05 55.00 6.2X
BLF 153.01 318 iPKPc 05 58.50 8.1X
KIM 153.27 321 iPKP 05 58.00 7.2X
0.9s 91.00nm
i 06 11.60
HVD 154.61 318 iPKPd 05 02.00 -50.6X
1.1s 328.00nm
i 05 14.90
SUR 158.03 324 iPKPc 05 44.20 -12.8X
1.0s 792.00nm
Z 18s 9.76um 6.7Msz
NVL 160.41 186 ePKP 06 11.00 12.9X
2.5s 140.00nm
epPKP 06 20.00
esPKP 06 26.00
S.D. = 1.0 on 477 of 509 obs.

JUN 21, 1983 06h 25m 26.43± 0.05s
41.339 N ± 0.8km 139.085 E ± 1.1km
DEPTH = 5.0km (geophysicist)
6.7mb (118 obs.) 7.0Msz (22 obs.)
HOKKAIDO, JAPAN REGION (224)

Some damage in northern Honshu. Felt (IV JMA) at Aomori, Mori, Fukaura and Esashi; (III JMA) at Hakodate, Akita, Muraran, Hochinohe, Morioka and Mutsu; (II JMA) at Suttsu, Kutchan, Otaru, Miyako, Urakawa, Sakata, Onahama and Tamakomai. One meter tsunami at Akita, Noshiro and Wakami. Fifty cm. tsunami reported in many areas along the west coast of northern Honshu.

AOMJ 1.25 128 iP 25 48.60 -1.5
HAK 1.34 69 iPd 25 51.60 0.0
eS 26 06.00
MOR 1.35 55 eP 25 53.00 1.2
S 26 10.00
AOM 1.39 112 iPd 25 51.20 -1.2
S 26 12.20
SUT 1.69 30 iP+ 25 56.60 0.0
S 26 24.80
MRR 1.72 55 eP 25 58.00 0.8
eS 26 19.00
AKI 1.79 154 eP 25 57.00 -1.2
eS 26 24.00
MRRJ 1.84 53 P 25 58.60 -0.3
HAC 2.02 113 iPd 25 59.80 -1.7
S 26 28.50
HJH 2.16 157 iP 26 01.10 -2.5
MRK 2.28 135 Pd 26 04.30 -1.0
eS 26 36.00

21d 06h

SAP	2.40	43	iP+	26	07.40	0.5	KYS		6.19	172	eP	27	01.90	1.2	ASZ		9.88	211	eP	27	53.00	0.9
			S	26	40.20		GIF		6.20	198	eP	27	04.00	3.1X					e	29	52.00	
SAK	2.50	166	eP	26	15.00	6.6X					e	28	01.00		OIT		10.03	219	Pd	28	01.00	6.8X
			S	26	48.40		MIS		6.22	181	ePd	27	05.00	3.9X					eS	29	52.50	
SKH	2.57	164	iP	26	07.30	-2.1					eS	28	16.00		CN2		10.36	288	Pd	27	56.00	-2.7
MIY	2.77	127	iPd	26	10.90	-1.4	SHO		6.23	64	iPc	27	00.00	-1.2	FKK		10.38	225	Pd	28	01.50	2.5
			S	26	57.50				1.0s		8.40nm			4.5mb X					eS	29	55.00	
URA	2.88	72	Pd	26	14.60	0.7		Z	13s		2674.00um			6.6Msz	IZU		10.52	231	eP	28	05.00	4.1X
			iS	26	54.80			N	13s		2480.00um								eS	30	08.00	
OFUJ	3.00	138	P	26	13.70	-1.8		E	13s		1000.00um				NOB		10.55	216	Pd	28	04.00	2.7
OFU	3.04	138	Pd	26	15.70	-0.3					iS	28	08.00						S	30	10.20	
			iS	26	55.10		YSS		6.25	23	iPc	27	03.00	1.6	SAG		10.68	224	eP	28	05.00	1.9
RMJ	3.22	35	P+	26	19.50	1.0	TSRJ		6.28	204	P	27	01.40	-0.6	KUM		10.82	221	eP	28	05.00	0.0
			S	27	06.80		AJI		6.29	180	eP	27	05.00	2.9	KUMJ		10.99	220	P	28	07.80	0.5
YAM	3.23	162	eP	26	16.00	-2.8	TAT		6.37	174	eP	27	06.00	2.7	MYZ		11.23	216	eP	28	15.00	4.4X
YAMJ	3.25	167	iP	26	16.50	-2.5					iS	28	17.50						eS	30	25.00	
HOOJ	3.31	70	iP	26	21.00	1.1	SHZ		6.38	185	eP	27	04.00	0.6	NGS		11.31	224	eP	28	15.00	3.3X
ISN	3.37	149	eP	26	21.00	0.2					eS	28	20.00						S	30	29.60	
			eS	27	07.00		NAG		6.38	196	eP	27	04.00	0.5	FKJ		11.89	227	ePd	28	26.00	6.5X
SEN	3.38	155	P+	26	21.10	0.2					eS	28	25.00						eS	30	42.00	
			eS	27	02.00		KTJ		6.38	180	P	27	04.20	0.7	KAG		11.91	218	P+	28	25.00	5.1X
AIK	3.38	191	eP	26	18.00	-2.9	HIK		6.45	201	eP	27	04.00	-0.4	KAGJ		12.09	216	P	28	23.10	0.8
			iS	26	58.50		OSH		6.57	178	Pd	27	09.20	3.1X	TAJ		12.43	214	eP	28	24.00	-2.9X
NII	3.42	180	eP	26	18.00	-3.5X	MZH		6.58	208	P	27	04.90	-1.3					eS	30	43.00	
			eS	27	04.00						eS	28	18.00		OKH		12.49	11	iPc	28	30.00	2.5
ASA	3.44	44	iP+	26	23.00	1.3	TYK		6.69	211	eP	27	07.00	-0.8	CBI		14.44	169	eP	28	48.00	-5.5X
			iS	27	10.50						iS	28	35.10		SKR		15.03	46	iPc	28	58.00	-3.1X
OBI	3.46	61	P+	26	23.60	1.6	HMM		6.71	190	Pd	27	13.50	5.5X	NZJ		15.12	214	iPd	29	08.70	6.3X
			eS	27	14.00						e	29	04.60						S	32	13.50	
FKS	3.73	163	eP	26	26.00	0.0	NGT		6.73	182	eP	27	16.00	7.7X	MVI		16.78	205	eP	29	25.00	1.3
			e	27	24.30		OMA		6.76	186	eP	27	10.00	1.3					eS	32	20.00	
NIIJ	4.09	181	iP	26	28.30	-2.7	SAI		6.82	223	eP	27	08.00	-1.5	NGO		17.33	215	ePd	29	35.00	4.4X
			S	27	14.40		KYO		6.84	204	eP	27	10.00	0.1	BJI		17.42	273	iPd	29	32.00	0.3
KUS	4.27	66	eP	26	34.00	0.4	TSU		6.93	198	eP	27	12.00	0.9			4.0s		2780.00nm			5.7mb X
			iS	27	22.50						eS	28	19.00						eS	32	56.00	
TKD	4.28	189	eP	26	31.00	-2.6	TOTJ		6.96	214	P	27	10.30	-1.3	PET		17.63	42	Pc	29	30.00	-4.2X
			eS	27	21.00		TOT		6.98	215	eP	27	09.00	-2.7	SSE		17.66	240	iPc+	29	36.00	1.3
WAJ	4.29	204	eP+	26	32.00	-1.8					e	28	36.00			Z	12s		3540.00um			
			eS	27	23.00		TK04		7.01	188	P	27	14.00	1.9		N	14s		2380.00um			
SHR	4.31	168	P	26	32.70	-1.4	TK03		7.22	187	P	27	15.80	0.8					i	29	40.00	
WAK	4.49	24	P+	26	39.10	2.5	OSA		7.22	204	eP	27	15.00	-0.1					S	33	01.50	
			eS	27	52.00						i	29	05.20		NAH		17.79	216	ePd	29	40.00	3.7X
ONA	4.61	162	P	26	39.60	1.3	OSK		7.24	203	eP	27	16.00	0.5	TIA		17.86	260	eP	29	38.20	1.0
			iS	27	41.30						i	28	51.00		KMJ		18.08	218	ePd	29	42.00	2.0
ABJ	4.67	53	eP+	26	40.00	0.7	KOB		7.32	206	P+	27	16.80	0.2	TUP		18.28	322	iPd	29	42.10	-0.1
			iS	27	36.30						eS	29	00.00				2.0s		380.00nm			5.2mb X
NGN	4.72	189	eP	26	40.10	0.1	HIM		7.35	209	eP	27	18.00	1.0	NJ2		18.65	247	Pc	29	47.50	0.6
			S	27	36.80						eS	28	53.00		MYK		20.11	219	eP	30	06.00	2.1
UTS	4.83	172	eP+	26	41.00	-0.5	TK02		7.45	189	eP	27	19.00	0.8	MGD		20.14	17	iPc	29	59.50	-4.4X
			e	27	40.00		KUR		7.50	56	iPc	27	21.00	2.0	HHC		20.72	278	Pd	30	10.30	0.0
MAT	4.84	188	P	26	40.00	-1.7	MTS		7.53	221	eP	27	21.00	1.4	TIY		20.84	269	Pd	30	12.00	0.4
MTMJ	4.85	192	P	26	39.60	-2.3					iS	28	44.50		ISI		21.03	221	eP	30	12.00	-1.5
TOY	4.85	198	eP	26	43.00	1.2	YONJ		7.57	218	P	27	19.10	-0.9					eS	35	04.00	
			eS	27	38.00		OWA		7.61	198	eP	27	20.00	-0.6	YAK		21.46	348	iPc	30	14.00	-3.5X
MAE	4.93	180	eP	26	42.00	-0.9	WKYJ		7.62	202	P	27	21.40	0.5					ePP	30	44.40	
MIT	5.07	167	eP	26	47.00	2.1	TK01		7.65	189	P	27	24.10	3.2X					iPPP	30	57.60	
			S	27	47.20		MDJ		7.69	298	iPd	27	20.00	-1.8					iS	34	11.00	
KAN	5.15	202	eP	26	45.00	-1.0	SUM		7.73	207	eP	27	23.00	0.7					iSS	34	39.00	
			S	27	45.80		WKY		7.75	205	iPd	27	25.00	2.5	ANP		21.74	228	iP+	30	20.00	-0.7
TSK	5.18	171	eP	26	44.20	-2.3					iS	28	55.50						eS	33	58.00	
KMG	5.19	177	P	26	51.30	4.7X	OKA		7.80	213	eP+	27	23.00	-0.2	TATO		21.92	227	e(P)	30	22.00	-0.4
KAKJ	5.20	170	iP	26	44.60	-2.1					eS	28	51.00		BTO		21.92	278	iPd	30	22.00	-0.5
NEM	5.21	65	P+	26	46.70	-0.2	TKM		8.06	211	eP	27	27.00	0.1	WHN		22.67	250	iPc	30	29.00	-0.8
			S	27	43.40						S	29	05.80						iS	34	37.00	
CHJJ	5.28	181	iP	26	46.50	-1.5	TKS		8.09	208	P+	27	27.50	0.1	BOD		22.89	325	eP	30	29.30	-2.5
DDR	5.33	179	eP	26	47.50	-1.2					e	29	41.00				1.5s		1090.00nm			6.2mb
TKY	5.37	196	P	26	48.50	-0.8	HJJ		8.24	176	Pd	27	32.90	3.4X	SEY		23.00	16	iPc	30	30.80	-2.0
VLA	5.63	291	iPc	26	50.00	-2.8					S	29	19.30				2.0s		1890.00nm			6.3mb
YUK	5.64	59	iPc	26	53.20	0.3	SHJ		8.31	200	P	27	29.00	-1.4		Z	13s		666.00um			7.3MszX
	2.0s		99.00nm			5.2mb X					S	29	09.70			N	13s		488.00um			
			eS	27	57.60		TKSJ		8.36	210	P	27	31.60	0.5		E	13s		536.00um			
TOK	5.67	174	P	27	00.00	6.6X	SHK		8.47	219	iPc	27	31.60	-1.1					ePPP	31	08.80	
			eS	28	06.00						eS	28	59.50						iS	34	42.80	
KOF	5.68	184	eP	26	54.00	0.4	HMD		8.48	223	eP	27	34.00	1.2	XAN		24.87	263	eP	30	50.10	-1.2
			eS	27	59.00						S	29	10.10		IRK		25.95	307	Pd	31	00.00	-1.2
SRY	5.72	178	eP	26	55.10	0.9	HIR		8.72	219	P	27	40.00	3.8X	SMY		26.18	52	iPc	31	04.10	0.8
FUK	5.73	204	eP	26	57.00	2.8					e	28	21.50			Z	20s		235.00um			6.7Msz
			S	28	01.00		KOC		8.93	211	P	27	39.60	0.5	ZAK		26.30	302	iPc	31	03.00	-1.5
CHO	5.77	166	P	26	56.10	1.3					S	29	50.90				2.5s		1400.00nm			6.2mb
			e	28	10.00		MRT		8.97	207	eP	27	41.00	1.4		N	20s		9030.00um			
FUN	5.84	183	eP	27	02.00	6.2X					e	29	28.00			E	20s		6715.00um			
IID	5.90	190	eP+	26	55.00	-1.7	MTY		9.00	216	eP	27	41.00	1.0					iS	35	38.00	
			iS	27	58.60						e	29	37.00		PIP		27.86	220	iPc	31	29.00	10.1X
OYM	5.91	179	eP	26	56.90	0.1	SHNJ		9.58	224	P	27	48 40	0.5	LZH		27.87	271	Pd	31	18.50	-0.6
YOK	5.91	175	Pd	27	01.60	4.9X	UWA		9.62	215	eP	27	51.00	2.5					S	36	02.00	
			eS	28	17.00		SHN		9.80	224	Pd	27	53.40	2.4	MOY		27.89	305	eP	31	17.40	-1.5
IIDJ	5.92	189	P	26	55.40	-1.6					eS	29	40.00				1.5s		160.00nm			5.6mb X

21d 06h

GUMO	28.10	168	eP+	31	19.50	-1.7	COL	46.50	34	iP	33	55.30	-0.7	SAM	53.34	294	iPc	34	47.60	-1.2
PJG	28.10	168	e(P)	31	19.50	-1.7				iS	40	46.00			9.0s	*******	nm		7.2mb X
			(pP)	31	26.60	25kmX	FBA	46.50	34	iPc	33	55.40	-0.6				iPP	36	53.20	
GUA	28.16	168	eP+	31	19.50	-2.2	MDG	46.76	171	eP	34	01.00	2.5				iS	42	20.60	
	0.8s	269.00nm			6.1mb		FRU	46.81	294	eP	33	57.50	-1.2				iSS	45	57.00	
Z	22s	176.00um			6.6Msz			2.0s	1080.00nm			6.6mb		SVO	53.74	154	eP	34	55.00	3.2X
			eS	36	20.00		Z	10s	147.00um			7.2MszX		HNR	54.05	154	e(P)	34	54.00	0.0
GZH	28.22	238	Pc	31	23.00	0.8	N	10s	298.00um					SIT	54.36	42	ePc	34	56.70	0.8
HKC	28.27	235	iP	31	24.80	2.2	E	10s	200.00um					PPI	54.37	230	eP	34	56.30	-0.2
			iS	36	25.00					iPP	35	54.00			1.4s	224.00nm			6.0mb
MCO	28.78	236	eP	31	29.70	2.4				iS	40	42.00		MTN	54.41	190	eP	34	53.00	-3.7X
BAG	29.53	218	iP+	31	31.00	-3.2X	RAB	46.86	162	iPc+	33	59.80	0.5	ALE	55.94	3	iP	35	05.80	-1.4
	2.0s	1350.00nm			6.4mb		KSH	47.14	290	eP	34	03.00	1.5		0.7s	268.00nm			6.4mb	
GTA	29.81	279	iPd	31	34.70	-1.9	KHE	48.06	347	iPc	34	08.00	-0.1	HON	56.11	90	P	35	11.00	1.9
			PP	32	31.50		SNG	48.19	236	iPc+	34	09.00	-0.8	HYB	56.67	264	ePc	35	12.00	-1.3
			iS	36	31.20			1.2s	1060.00nm			6.8mb			1.6s	1540.00nm			6.8mb	
CD2	30.19	261	eP	31	36.60	-3.3X	Z	22s	55.60um			6.5Msz					eS	43	02.00	
GYA	30.52	251	Pc	31	43.00	0.0	N	20s	56.40um					APA	58.06	334	iPc	35	21.20	-1.2
TIK	30.80	354	iPc	31	41.50	-3.2X	E	20s	39.00um					KKH	58.60	91	eP	35	26.00	-0.7
MAN	30.84	216	iPc	31	47.00	1.4				iS	40	15.50		KEV	58.78	338	iPc+	35	26.00	-1.4
QCP	30.86	216	eP	31	34.00	-11.8X	LAT	48.31	169	eP	34	11.50	0.9		0.6s	509.00nm			6.8mb	
CNP	31.37	208	ePd	31	52.00	1.7	ANR	49.16	293	eP	34	16.70	-0.4				i	35	32.50	
ADK	31.70	55	iPc	31	51.40	-1.5		1.6s	650.00nm			6.4mb					ePPP	39	04.00	
PLP	32.51	206	ePd	31	57.30	-3.0X	Z	12s	240.00um			7.4MszX					eS	43	24.00	
KMI	34.14	253	P+	32	14.00	-0.7	N	12s	285.00um					POO	59.53	268	iPc	35	33.20	-0.1
	9.0s	19.30nm			4.0mb X		E	12s	455.00um					GBA	59.90	262	Pc	35	33.20	-2.6
E	14s	220.00um								eS	41	24.50			0.8s	188.00nm			6.3mb	
			pP	32	33.00	80kmX	MKS	49.69	206	iPc	34	22.50	1.2	ASH	60.08	296	eP	35	36.00	-0.8
			sP	32	41.00		PAA	49.73	158	eP	34	20.00	-1.8		2.0s	2380.00nm			7.0mb	
			PP	33	29.00		IPM	49.97	233	ePd	34	24.10	0.6				ePcP	36	26.00	
			PcP	34	58.00			1.0s	159.00nm			5.9mb					ePP	37	46.00	
			S	37	31.00					e	34	44.90					ePPP	39	24.00	
			sS	37	54.00					e	35	44.00		MHI	60.15	294	iPc+	35	38.40	0.9
			iScS	42	22.00		KGM	50.68	229	ePd	34	28.00	-0.9		2.0s	988.00nm			6.6mb	
ILT	34.90	26	Pd	32	18.00	-2.5		0.9s	255.00nm			6.2mb					e	39	24.00	
CGP	35.15	205	eP	32	18.90	-4.2X				e	55	47.50					eS	43	56.00	
DAV	36.17	203	iPc+	32	31.00	-0.7	LMG	50.69	168	iPc	34	29.00	-0.1	VAN	60.25	296	ePc	35	36.50	-1.5
ELT	36.93	307	iPc	32	36.50	-1.2	SVE	50.77	316	iPc	34	29.00	-0.1		1.5s	400.00nm			6.3mb	
WMO	37.43	291	iPc	32	42.80	0.6		9.0s	*******	nm		7.4mb X					ePP	37	52.00	
			iS	38	32.00		Z	18s	531.00um			7.6Msz					eSP	43	56.00	
			PcS	38	45.00		N	18s	167.00um					SOD	60.30	336	iP	35	36.70	-1.2
NRI	38.45	334	iPc	32	47.40	-2.9	E	18s	345.00um					YKA	61.02	31	eP	35	41.60	-1.2
	1.6s	750.00nm			6.1mb					iPP	36	23.00		RSNT	61.03	31	iPc	35	42.00	-0.9
			esP	33	03.00					iS	41	45.00		YKC	61.07	31	ePc	35	42.00	-1.2
			iS	38	38.00					iSS	45	20.00			1.6s	1220.00nm			6.8mb	
ANM	38.97	34	iPc	32	54.90	0.1	PCA	50.90	40	iPc	34	30.30	0.1	WB2	61.13	185	iPc	35	40.70	-3.2X
LSA	40.24	269	Pc	33	07.20	0.9	PMG	51.04	170	eP+	34	30.00	-1.6				eS	44	17.50	
KKM	40.64	216	ePd	33	10.00	0.8	TAS	51.04	295	iPc	34	31.60	0.1				eP'P'	05	01.70	
SEM	40.97	303	Pc	33	09.90	-1.6		3.0s	9500.00nm			7.2mb		DAG	61.34	354	iPc	35	43.00	-1.8
SDN	41.20	49	eP	33	12.70	-0.5				iS	41	48.60			1.1s	84.80nm			5.8mb	
BDT	41.89	247	eP	33	16.00	-3.3X				eSS	45	20.00					iS	44	07.00	
	0.9s	147.00nm			5.7mb					eSSS	46	58.60		PHC	61.40	46	ePc	35	44.50	-1.1
PCT	42.05	242	iPc	33	23.00	2.3	NDI	51.23	276	iP	34	32.00	-1.1		2.0s	1450.00nm			6.8mb	
	1.0s	650.00nm			6.3mb			0.9s	361.00nm			6.3mb		CTA	61.47	172	iPd+	35	44.00	-2.3
TTA	43.01	37	iPc	33	28.40	0.3				PcP	35	46.00			1.6s	530.00nm			6.5mb	
JAY	43.67	178	ePd	33	35.00	1.1				i	36	12.00					iS	44	04.00	
MOM	43.83	168	eP	33	34.00	-1.2				iS	41	51.00		CTAO	61.47	172	eP	35	44.70	-1.6
IMA	43.98	33	iPc	33	34.70	-1.3				iSS	45	24.00			2.4s	1010.00nm			6.6mb	
PRZ	44.32	293	eP	33	38.00	-1.1	GAR	51.33	292	eP	34	34.50	0.7				e	35	51.50	
	1.4s	750.00nm			6.4mb			2.5s	250.00nm			5.7mb		KIR	61.85	338	iP	35	47.30	-1.2
Z	18s	960.00um			7.8Msz					iPPP	37	32.50		KJF	61.86	332	iP+	35	47.00	-1.6
E	18s	1128.00um					INK	51.44	28	ePc	34	32.50	-1.5		1.6s	2530.00nm			7.2mb	
			ePcP	35	22.00			0.9s	650.00nm			6.6mb					ePP	37	44.00	
			iS	40	13.00		ARU	51.97	316	iPc	34	38.00	-0.3				ePPP	39	24.00	
			eScS	43	34.00			2.0s	3800.00nm			7.0mb					eS	44	12.00	
TLG	44.75	294	iPc	33	42.20	-0.3	Z	17s	525.00um			7.6MszX		KHI	61.88	292	eP	35	49.50	0.1
Z	18s	580.00um			7.5Msz		N	12s	280.00um					KOD	62.07	259	iPc	35	51.00	0.1
			ePP	35	34.50		E	20s	345.00um					SUF	63.34	332	iP	35	56.50	-1.8
			iS	40	23.50					ePcP	35	45.00		OBN	63.55	321	iPc	35	59.80	0.0
			iScS	43	38.00					ePP	36	35.00		PUL	63.58	328	iPc	35	59.50	-0.5
WWW	44.90	174	eP	33	44.00	0.2				iS	42	01.00			1.8s	2450.00nm			7.1mb	
KVG	44.99	163	eP	33	43.00	-1.5				eScS	44	29.00		Z	15s	300.00um			7.6MszX	
AAA	45.05	294	iPc	33	46.00	1.1				iSS	45	36.00		N	16s	360.00um				
			ePP	35	29.00		KUL	52.21	291	iPc	34	40.50	0.1	E	14s	250.00um				
			iS	40	25.00		Z	17s	7931.00um			8.8MszX					isP	36	12.00	
			eSS	43	34.00		N	16s	461.00um								ePP	38	22.00	
KDC	45.26	45	iPc	33	45.70	-0.5				iS	42	05.50					eS	44	32.00	
KKN	45.64	270	eP	33	50.40	0.4				iSP	42	09.50					eSP	44	44.00	
PKI	45.66	270	eP	33	47.90	-2.4				iScS	44	25.90					eScS	45	40.00	
DMN	45.87	270	eP	33	49.70	-2.1	DSH	52.60	292	iPc	34	43.40	0.0				eSS	48	34.00	
AAI	45.90	195	iPd	33	52.80	1.1				iPP	36	50.00		BAK	64.35	302	iP	36	06.00	0.7
	0.7s	186.00nm			6.2mb					iPPP	37	50.00					iS	44	47.00	
PMR	46.33	39	iPc	33	54.30	-0.4				eS	42	10.00		MAK	64.45	306	iPc	36	05.60	-0.3
	2.0s	446.00nm			6.2mb		PSI	52.73	234	ePd	34	37.50	-6.9X		Z	18s	445.00um			7.7Msz
Z	20s	150.00um			6.9Msz		MBC	52.93	17	ePc	34	43.20	-2.1		N	18s	490.00um			
NRN	46.36	292	eP	33	55.20	-0.4		0.8s	546.00nm			6.5mb			E	18s	140.00um			
			eS	40	50.00		KUPT	53.18	199	eP	34	49.00	1.3				ePcP	36	42.00	

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				iS	44	47.00		LGBM	69.69	53	ePc	36	39.70	0.3					i	39	58.00								
PGC	64.68	47	eP	36	07.00	-0.3		WDC	69.95	53	iPc	36	40.80	0.2					iS	46	42.00								
MBL	64.70	200	eP	36	07.00	-0.6					e	46	20.80			EUR	74.55	51	iP	37	08.00	-0.3							
PVC	64.72	149	iPc	36	06.70	-1.1					e	04	42.00				0.5s		6.65nm			4.9mb X							
ASPA	64.85	185	eP	36	06.00	-2.6		MEK	70.24	199	eP	36	40.00	-2.4		BMR	74.62	321	ePd	37	10.00	1.8							
MCW	65.00	46	eP	36	09.30	-0.2		RMT	70.28	54	eP	36	42.20	-0.4		ISR	74.90	317	ePc	37	11.00	1.1							
NUR	65.31	330	iPc+	36	10.20	-1.0		MIN	70.66	53	iPc	36	44.60	-0.6		SCCM	74.94	57	eP	37	11.00	0.7							
			i	36	20.00			FCC	70.95	26	ePc	36	44.40	-2.0		MLR	74.96	318	ePc	37	10.00	-0.4							
			ePP	38	32.00				2.2s	5050.00nm			7.3mb			SPC	75.03	323	iPc	37	12.40	1.6							
			ePPP	40	20.00			MSL	70.99	302	ePd	36	46.50	-0.5		CEI	75.11	321	eP	37	16.00	5.0X							
			eS	44	56.00			SIM	71.02	313	iPc	36	47.00	-0.1		BEI	75.17	47	eP	37	12.30	0.6							
			eSS	48	28.00						ePcP	37	07.00			KLB	75.19	199	iPc	37	10.80	-0.7							
GRO	65.32	307	iPc	36	11.00	-0.6					ePP	39	29.00			CJR	75.26	320	eP	37	13.40	1.4							
	8.0s	********	nm			7.8mb X					iS	46	03.00			MDB	75.28	319	iPc	37	15.00	3.0X							
			iS	44	55.00						eScS	46	43.00			JOS	75.41	323	iPc	37	12.80	0.1							
GMW	65.68	47	eP	36	14.00	0.2		FFC	71.06	32	eP	36	46.00	-1.1		BRL	75.46	329	iPc	37	14.00	1.2							
KOU	65.87	154	iPc	36	15.10	0.0			1.2s	840.00nm			6.7mb			WKTM	75.47	55	eP	37	12.00	-1.4							
TEH	65.97	297	eP	36	16.00	0.0		ORV	71.21	54	iPc	36	47.00	-1.3		KSP	75.51	327	eP	37	11.60	-1.6							
BFW	66.05	49	eP	36	16.00	-0.3		BKS	71.80	55	eP	36	50.80	-1.1			1.2s		976.00nm			6.8mb							
PNT	66.36	44	iPc	36	17.60	-0.5			1.9s	3100.00nm			7.1mb						i	37	13.50								
	1.0s	159.00nm				6.2mb		Z	20s	34.00um			6.6Msz						eS	47	00.00								
KRV	66.46	304	iPd	36	17.00	-1.9		N	20s	15.00um						BRN	75.53	329	iPc	37	14.00	0.7							
Z	12s	20.00um				6.5MszX		E	20s	18.00um						CMP	75.57	318	ePd	37	21.00	7.3X							
N	12s	6.30um									eS	46	16.00			RIV	75.62	170	eP	37	15.00	1.1							
E	12s	100.00um									eScS	46	58.00			YOU	75.73	172	iPc	37	13.30	-1.2							
			ePPP	40	26.00						eSS	50	44.80						i	40	03.40								
			iS	45	08.00						eSSS	54	32.80			MOUT	75.74	47	eP	37	15.20	0.0							
			eScS	46	12.00			AKU	71.85	350	iPc+	36	53.00	1.4		VPEM	75.75	55	eP	37	14.30	-0.8							
			eSS	49	18.00				1.9s	2380.00nm			7.0mb			CGN	75.86	317	ePc	37	16.00	0.7							
			eSSS	52	17.00			Z	17s	72.10um			7.0MszX			COZ	75.88	319	ePd	37	16.00	0.3							
PYA	66.50	309	iPc	36	18.00	-1.1					i	39	31.90			DUG	75.89	49	P	37	16.00	0.2							
	2.0s	1320.00nm				6.8mb		LRM	72.33	44	ePc	36	54.20	-1.0		BDW	75.91	45	iPc	37	15.00	-1.0							
			iPP	38	50.00			KIS	72.44	318	iPc	36	54.00	-1.5		HAM	75.93	331	iPc	37	17.20	1.7							
			eS	45	07.00				2.0s	2200.00nm			6.9mb			ADE	75.93	180	ePc	37	16.00	0.3							
			iS	45	08.00			Z	17s	308.00um			7.6MszX				1.3s		365.00nm			6.3mb							
			ePPS	45	49.00			N	16s	179.00um						MUN	75.95	200	eP	37	16.00	0.2							
LON	66.68	48	iP	36	20.00	-0.3		E	14s	341.00um						PSZ	76.12	323	iPc	37	17.80	0.9							
EDM	67.10	38	ePc	36	20.80	-2.0					iPPP	41	16.00			DEV	76.19	320	ePd	37	21.00	3.8X							
	2.0s	2920.00nm				7.1mb					iS	46	06.00			HRT	76.20	313	iP	37	16.80	-0.6							
COR	67.11	50	iPc	36	23.00	0.1					iSP	46	48.00			GPA	76.21	312	iP	37	17.20	-0.2							
GRS	67.12	303	iPc	36	22.20	-1.1		MHC	72.50	56	eP	36	56.40	0.2		ISK	76.37	313	iP	37	18.60	0.3							
	2.0s	830.00nm				6.6mb		COO	72.53	168	iPd	36	57.50	1.4		BRG	76.44	328	iPc+	37	18.60	0.1							
Z	12s	32.00um				6.8MszX		ARN	72.56	56	eP	36	55.80	-0.7			1.9s		1750.00nm			6.8mb							
N	12s	41.00um						CMS	72.73	174	eP	36	56.00	-1.2					eS	47	04.00								
E	12s	40.00um						LVV	72.86	322	iPc	36	58.00	0.1					P'P'	05	33.00								
			iPcP	36	51.00				9.0s	********	nm		7.5mb X			CLL	76.48	329	iP	37	17.50	-1.2							
			iPP	38	59.00			Z	12s	129.00um			7.4MszX				1.7s		2150.00nm			7.0mb							
			iS	45	15.00						iPPP	41	20.00						eS	47	06.00								
NAU	67.22	204	eP	36	22.00	-1.7					iS	46	16.00			YLV	76.54	312	iP	37	18.80	-0.6							
ERE	67.87	304	iPc	36	28.00	0.1					iScS	46	59.00			DMK	76.56	314	ePd	37	18.50	-0.9							
			iS	45	28.00			JAS	72.86	54	iPc	36	58.50	0.3		NWAO	76.59	199	eP	37	18.00	-1.4							
LEN	67.93	305	iPc	36	29.00	0.6		STK	72.89	178	eP	36	57.00	-1.1		PAS	76.71	56	iPc	37	20.00	-0.3							
	7.0s	********	nm			7.3mb X		SLD	72.93	56	iP	36	59.10	0.5			1.1s		970.00nm			6.8mb							
			iPcP	36	48.00			FRB	72.98	12	eP	36	56.00	-2.4		Z	20s		31.00um			6.6Msz							
			iPP	39	04.00			BMN	73.20	51	eP	37	00.10	-0.2					ePP	40	22.00								
			ePPP	40	40.00						eS	46	28.00						ePPP	42	08.00								
TAB	67.95	302	iP+	36	29.00	0.4		COP	73.28	332	iPc	37	00.00	-0.2					eS	47	08.00								
NOU	68.23	153	iPc	36	29 40	-0.7			1.5s	2220.00nm			7.0mb						ePS	47	41.00								
UPP	68.30	332	iP	36	18.50	-11.6X					iS	46	46.00						ePPS	48	08.00								
			iS	45	30.00			CLI	73.55	318	ePc	37	02.50	0.4					eSS	52	15.00								
NEW	68.31	44	iPd	36	29.50	-1.0		KLG	73.59	196	iPc	37	03.30	1.0					eSSS	55	44.00								
NDF	68.70	141	ePc	36	40.20	7.1X		BAC	73.73	318	eP	36	57.00	-6.0X					e	57	36.00								
SHI	68.71	291	eP	36	32.00	-1.4		MUD	73.79	334	iPc	37	04.70	1.5		CLO	76.82	319	eP	37	20.00	-0.7							
SOC	68.72	310	iPc	36	32.00	-1.0			1.1s	230.00nm			6.1mb			CAN	76.83	172	iPc	37	21.10	0.4							
	2.0s	1200.00nm				6.8mb		REY	73.79	351	iP	37	06.40	3.3X		BKU	76.83	50	eP	37	20.10	-1.1							
			ePP	39	04.00			PRI	73.86	56	eP	37	04.80	0.6		BUD	76.84	323	iPc	37	21.70	0.9							
			ePPP	40	50.00			FRI	73.92	55	eP	37	04.50	0.2			1.6s		120.00nm			5.8mb								
			iS	45	40.00			CFR	74.04	317	ePd	37	04.50	-0.3		PRU	76.88	327	P	37	21.20	0.2							
FHC	68.94	54	eP	36	35.40	0.9		VRI	74.30	318	iPc	37	06.00	-0.4			1.7s		1590.00nm			6.9mb								
PNO	69.06	47	eP	36	35.00	-0.1		IMW	74.42	45	eP	37	07.50	0.0		Z	14s		272.00um			7.7MszX								
LDM	69.13	43	iPc	36	35.40	-0.2		UZH	74.50	322	iPc	37	08.00	0.6					S	46	55.00								
ANN	69.30	312	iPc	36	36.00	-0.6			2.2s	420.00nm			6.1mb			SRE	76.92	319	ePd	37	24.00	2.7							
	1.5s	1450.00nm				6.9mb		Z	11s	250.00um			7.8MszX			SRO	76.92	324	iPc	37	22.00	0.8							
			ePcP	37	06.50						iPcP	37	18.00						i(PP)	40	14.40								
			ePP	39	16.00						iPP	39	57.00						i(S)	47	05.60								
			ePPP	40	48.00						iS	46	44.00			PVL	77.00	317	iPc	37	22.00	0.3							
			iS	45	43.00						iSP	47	14.00			ALT	77.16	311	iP	37	22.50	-0.3							
			ePPS	46	19.00			TLB	74.51	316	iPc	37	09.50	1.9		ZST	77.16	324	iP	37	22.80	0.2							
GDH	69.34	5	iPc	36	33.50	-2.8		BAL	74.51	200	eP	37	07.00	-0.6			Z	12s	178.00um			7.6MszX								
	1.5s	1560.00nm				7.0mb		KRA	74.53	324	iPc	37	08.10	0.5					eS	47	17.50								
VUN	69.41	140	iPd	36	25.60	-11.8X			1.5s	2320.00nm			7.0mb			RSON	77.27	31	iPd	37	22.20	-0.9							
	1.7s	50.90nm						N	20s	311.00um						VKA	77.45	325	ePc	37	25.10	0.9							
HFS	69.43	334	eP	36	36.50	-0.6		E	20s	339.00um							1.7s		1730.00nm			6.9mb								
	1.7s	2310.00nm				7.1mb					i	37	09.60						i	37	27.00								
SVA	69.50	140	iPd	36	39.50	1.5					i	37	15.60						iPP	40	22.10								
NB2	69.52	336	P	36	36.00	-1.8					i	37	19.60						iS	47	17.00								
KER	69.63	298	eP	36	40.50	1.5					i	37	32.90			SSR	77.49	320	iP	37	25.00	0.6							

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EDC		77.53	313	ePc	37	24.10	-0.6	THE		79.95	316	ePc	37	38.00	0.1			1.2s	513.00nm		6.6mb
MFT		77.54	314	iP	37	24.80	-0.1					eS	47	44.00		MNS		83.64	323	iPd	37	57.50	0.4
MOX		77.54	329	iPc+	37	24.50	-0.1	GRG		80.01	317	ePd	37	38.70	0.4			1.4s	1000.00nm		6.8mb
		1.8s	1690.00nm			6.9mb		UCC		80.08	333	P+	37	37.70	-0.7				iPP	41	11.50		
	Z	13s	213.00um			7.7MszX						S	47	45.00		SMF		83.77	331	iPc	37	56.90	-0.9
	N	17s	410.00um					PAIG		80.08	315	ePd	37	38.90	0.3			1.5s	1340.00nm		6.9mb
	E	17s	388.00um					CEY		80.23	324	iP	37	39.20	-0.1	AVF		83.83	331	iPc	37	57.20	-0.8
			iPP	40	20.00			GAP		80.28	327	iPc	37	40.40	0.8	SGO		83.85	320	iPc	37	58.40	0.2
			iS	47	15.00					1.6s	3930.00nm			7.1mb				1.3s	1100.00nm		6.9mb
			iSS	52	00.00			GOL		80.32	45	iPc	37	40.80	0.5				iPP	41	14.00		
			iSSS	55	50.00			GLD		80.36	45	iPd	37	41.40	1.0	GRR		83.90	334	iPc	37	58.70	0.4
			eP'P'	04	25.00				Z	19s	60.00um			7.0Msz				1.4s	858.00nm		6.8mb
DIM		77.56	316	iP	37	27.00	2.1	WLF		80.39	331	P+	37	42.00	1.9	RMP		84.08	323	iPc	37	59.50	0.1
WIT		77.61	333	ePc	37	26.00	1.1					PP	40	43.00					iPP	41	18.00		
WAM		77.68	172	eP	37	26.00	0.7					e	43	57.00					iS	48	24.00		
HOF		77.70	328	iPc	37	25.60	0.1					S	47	50.00		RAR		84.12	125	iP	38	04.00	4.3X
		1.7s	2140.00nm			7.0mb		GWF		80.42	330	iPKP	37	40.50	0.2				S	48	32.00		
			eS	47	20.00			BUH		80.43	329	ePc	37	37.00	-3.4X	BGF		84.21	331	iPc	37	59.30	-0.7
RSSD		77.80	41	iPd	37	26.00	-0.5	TRI		80.54	325	iPc	37	40.40	-0.5			1.5s	802.00nm		6.7mb
KHC		77.94	327	iPc	37	26.60	-0.3					ePP	40	46.50		LPF		84.27	334	iPc	37	59.60	-0.6
	Z	13s	52.30um			7.0MszX						eS	47	45.10				1.4s	980.00nm		6.8mb
	N	12s	53.60um									eSP	48	24.50		MZF		84.59	331	iPc	38	01.70	-0.2
	E	12s	54.00um									eSS	52	28.40				1.4s	1840.00nm		7.1mb
			e	40	10.50							eSSS	56	12.90		TCF		84.67	332	iPc	38	02.00	-0.3
			S	47	22.00			LIT		80.59	316	ePc	37	41.90	0.5			1.2s	594.00nm		6.7mb
BCK		77.97	310	iP	37	26.00	-1.3	DOU		80.59	332	Pc+	37	41.20	0.1	LSF		84.94	332	iPc	38	03.00	-0.6
KDZ		77.97	315	iPc	37	28.00	0.9					PP	40	44.00				1.2s	1010.00nm		6.9mb
WET		78.22	327	iPc	37	29.00	0.6					S	47	48.00		CVF		85.16	326	iPc	38	04.80	0.0
			eS	47	25.00							e	48	15.00				1.2s	405.00nm		6.5mb
WTS		78.23	332	iPc	37	28.90	0.6					e	57	11.00		MFF		85.22	333	iPc	38	04.90	-0.1
		1.6s	1250.00nm			6.8mb		STR		80.69	330	iPc	37	44.40	2.7			1.4s	1470.00nm		7.0mb
			ePP	40	29.00			DMU		80.74	340	iPc	37	42.10	0.2	FRF		85.27	327	iPc	38	05.40	0.1
			eP'P'	04	30.50					2.0s	3240.00nm			7.0mb				1.4s	674.00nm		6.7mb
VTS		78.40	317	iPc	37	29.00	-0.4	OGA		80.78	327	iPc	37	42.70	0.2	LRG		85.48	328	iPc	38	05.60	-0.7
GRF		78.45	328	iPc	37	30.70	1.1	LHC		80.95	30	iPc	37	42.60	-0.5			1.4s	982.00nm		6.8mb
		1.8s	4250.00nm			7.2mb				1.0s	747.00nm			6.7mb		LMR		85.52	327	iPc	38	05.60	-0.9
	Z	21s	107.00um			7.2Msz		CDF		81.01	330	iPc	37	43.80	0.3			1.4s	1100.00nm		6.9mb
			eS	47	25.00					1.4s	1100.00nm			6.7mb		KRP		85.63	152	P	38	09.80	2.9
			e	47	35.00			DDK		81.05	340	eP	37	43.90	0.4	RJF		85.76	331	iPc	38	07.40	-0.4
GRFO		78.45	328	eP	37	30.20	0.6			2.0s	1740.00nm			6.7mb				1.4s	943.00nm		6.8mb
EKA		78.47	339	Pd	37	28.80	-0.8	SLE		81.07	329	iP+	37	44.00	0.2	ACO		85.82	43	iP	38	08.10	-0.1
		1.9s	1160.00nm			6.6mb		DLE		81.20	340	iPc	37	44.50	0.2			2.0s	4730.00nm		7.3mb
DBN		78.71	333	iP+	37	31.00	0.1			2.0s	2520.00nm			6.9mb		CAF		85.89	331	iPc	38	08.60	0.2
	Z	23s	120.00um			7.2MszX		ECH		81.22	330	iPc	37	44.50	0.0			1.4s	1650.00nm		7.0mb
			ePP	40	32.00			DCN		81.33	340	iPc	37	45.40	0.4	LFF		86.36	332	iPc	38	10.60	-0.1
			e	43	30.00					1.7s	1720.00nm			6.8mb				1.4s	2140.00nm		7.1mb
			iS	47	29.00			ZUL		81.35	329	iP+	37	45.80	0.5	LPO		86.41	331	iPc	38	11.10	0.1
			ePS	48	14.00			ATH		81.48	314	iPc	37	46.00	0.0			1.4s	1780.00nm		7.1mb
			eSS	52	36.00							ePP	40	56.00		GIB		86.48	320	iP	38	10.50	-1.1
EZN		78.73	314	iPc	37	30.50	-0.8					iS	47	56.00		TDD		86.88	283	ePd	38	17.00	3.3X
TOO		78.75	175	eP	37	31.00	-0.2					iSKS	48	00.00		PCO		86.93	42	ePc	38	14.00	0.4
ELL		78.85	309	iPc	37	31.50	-0.7	CRZ		81.48	152	P	37	48.30	2.5			1.7s	1060.00nm		6.8mb
BNS		78.95	331	iPc	37	32.40	0.1	BAF		81.60	330	iPc	37	46.80	0.2	ATO		87.05	43	eP	38	14.20	0.0
			iPP	40	37.50			LLS		81.61	328	eP+	37	47.40	0.6	ARO		87.11	283	eP+	38	16.50	1.6
			iS	47	30.50			BSF		81.68	330	iPc	37	47.20	0.2	GNZ		87.16	150	eP	38	17.00	2.6
JER		79.00	303	eP	37	34.00	1.0			1.4s	613.00nm			6.5mb		RRO		87.18	44	ePc	38	15.00	0.1
RMU		79.07	50	iPd	37	34.20	0.7	SCH		81.70	15	ePc	37	46.70	-0.2			1.5s	908.00nm		6.8mb
TNS		79.09	330	ePc	37	33.40	0.2			2.0s	1180.00nm			6.6mb		DAF		87.29	283	ePd	38	18.90	3.2X
			ePcP	37	54.00			HAU		81.70	330	iPc	37	47.40	0.4	HLD		87.37	283	ePd	38	19.30	3.3X
			ePP	40	42.00					1.4s	490.00nm			6.4mb		PMO		87.52	112	iP	38	19.20	2.6
			eS	47	37.00			SAL		82.00	326	iPc	37	49.00	0.4			1.4s	240.00nm		6.3mb
IZM		79.22	312	iPc	37	33.00	-1.1	TMA		82.28	328	eP+	37	50.20	-0.1				ipP	38	28.40	29kmX	
SRS		79.27	316	ePc	37	34.40	0.1	MMK		82.69	328	eP+	37	53.20	0.7	OCO		87.59	43	iPc	38	17.80	1.0
BHG		79.34	326	iPc	37	35.50	1.0	LCI		82.73	319	iP	37	53.20	0.8	TPT		87.70	112	iP	38	19.80	2.4
GLA		79.52	55	eP	37	35.70	-0.1	HLW		82.73	303	iPc	37	59.00	6.3X			1.4s	240.00nm		6.3mb
YER		79.53	311	iPc	37	35.70	-0.1					eS	41	04.00					ipP	38	29.20	29kmX	
ENN		79.56	332	iPc	37	35.60	0.0	DIX		82.88	328	eP+	37	54.20	0.6	VAH		87.87	112	iP	38	20.60	2.4
		1.6s	726.00nm			6.4mb		ORO		83.03	328	iP	37	53.70	-0.4			1.4s	115.00nm		6.0mb
			ePP	40	39.00			VG1		83.14	327	iPd	37	55.20	0.7				ipP	38	30.00	29kmX	
			eP'P'	04	23.00							ePP	41	10.00		AFR		87.98	115	eP	38	22.00	3.2X
KNT		79.60	316	ePd	37	36 60	0.5					eS	48	22.50				1.4s	180.00nm		6.2mb
SOH		79.61	316	ePc	37	38.10	1.9	FIR		83.16	325	iPc	37	55.00	0.4	RUV		88.01	112	iP	38	21.40	2.5
OUR		79.63	315	ePd	37	36.70	0.5					iS	48	14.00				1.4s	215.00nm		6.3mb
FUR		79.65	327	iPc	37	37.20	1.0	ALQ		83.16	49	iP	37	54.50	-0.6				ipP	38	30.70	29kmX	
		1.7s	2820.00nm			7.0mb				1.5s	694.00nm			6.6mb		SIO		88.01	42	iPc	38	19.10	0.2
			eS	47	40.00				Z	20s	49.70um			6.9Msz		MNG		88.01	153	P	38	18.00	-0.5
KBA		79.65	326	ePd	37	36.30	-0.1	LOR		83.24	331	iPc	37	54.00	-1.0				pP	38	24.80	21kmX	
		2.0s	2840.00nm			6.9mb				1.2s	459.00nm			6.6mb					PP	41	48.00		
			i	37	38.80			AQU		83.33	323	iPc	37	57.00	1.3				(SKS)	48	44.50		
			i	37	46.00							ePP	41	10.00		TUL		88.14	42	iPc	38	19.70	0.2
			i	40	35.30			VAL		83.35	341	iP	37	56.00	0.5			1.0s	3360.00nm		7.6mb		
			iPP	40	42.50							S	48	17.00			Z	18s	96.50um		7.3Msz		
			e	47	08.20			FLN		83.45	334	iPc	37	56.20	0.1				eS	48	47.00		
			(sS)	48	01.70					1.4s	490.00nm			6.5mb		PPT		88.14	115	eP	38	22.00	2.4
LJU		79.94	324	iPc	37	37.80	0.0	LDF		83.48	334	iPc	37	56.30	0.1			1.4s	160.00nm		6.1mb		
			ePP	40	41.50					1.5s	661.00nm			6.6mb		EPF		88.15	331	iPc	38	18.80	-0.7
			eS	47	40.00			SSF		83.54	331	iPc	37	55.80	-0.8			1.6s	720.00nm		6.7mb		

OTT	88.21	24	eP	38	21.00	1.4
	0.7s	170.00nm			6.5mb	
AAM	88.23	30	iPc	38	20.50	0.7
			S	48	47.20	
RLO	88.32	41	iP	38	19.50	-0.8
ELF	88.32	28	P	38	20.70	0.5
WEL	88.37	154	P	38	20.10	0.0
SNZO	88.37	154	eP	38	20.00	-0.1
GBO	88.49	41	iPc	38	21.30	0.1
DLA	88.52	29	P	38	22.00	0.8
SLM	88.58	36	ePc	38	21.30	-0.2
MNT	88.73	22	iPc	38	21.80	-0.3
	2.1s	2630.00nm			7.1mb	
WLO	88.77	44	ePc	38	08.50	-14.1X
	1.3s	1290.00nm				
UTO	88.81	31	iPc	38	32.00	9.4X
CBM	88.84	18	P	38	22.70	0.0
	1.0s	5.00nm			4.7mb X	
FVM	89.03	37	ePc	38	23.36	-0.4
PTN	89.18	24	eP	38	24.00	-0.3
RSNY	89.33	23	eP	38	24.60	-0.5
MSZ	89.44	160	P	38	27.20	2.0
RHP	89.50	158	P	38	27.50	1.9
			eS	41	58.20	
LGR	89.66	333	iPc	38	27.60	0.9
			iPcP	38	29.60	
			iPP	41	58.00	
			iS	49	21.00	
BPIL	89.67	36	ePc	38	26.33	-0.4
BHO	89.81	42	iP	38	27.80	0.4
DON	89.92	37	ePc	38	27.29	-0.6
RMB	90.00	37	ePc	38	27.67	-0.6
EBR	90.01	330	eP	38	29.00	0.8
			ePP	42	02.00	
			eSKS	49	02.00	
			eS	49	22.00	
CSIL	90.05	36	ePc	38	28.06	-0.5
NHIL	90.08	36	ePc	38	28.41	-0.2
WDIN	90.14	35	ePc	38	28.65	-0.3
ELC	90.15	37	ePc	38	28.54	-0.4
POW	90.18	38	ePc	38	28.48	-0.6
MIM	90.20	19	P	38	29.40	0.3
JCT	90.22	48	eP	38	27.20	-2.3
Z	22s	64.80um			7.0Msz	
BNH	90.23	21	P	38	29.80	0.5
PGA	90.52	38	eP	38	30.42	-0.3
LST	90.55	37	ePc	38	30.42	-0.4
OLY	90.57	39	eP	38	30.70	-0.2
WCK	90.59	37	ePc	38	30.60	-0.4
INY	90.63	26	iPc	38	31.00	-0.1
ECD	90.83	38	ePc	38	31.84	-0.3
STJ	90.85	8	eP	38	33.00	1.0
	0.9s	262.00nm			6.5mb	
GRT	90.90	37	ePc	38	32.22	-0.2
JHP	90.94	38	eP	38	32.60	0.0
BLVT	91.00	23	P	38	33.40	0.6
EMM	91.05	19	P	38	33.30	0.3
OKG	91.24	38	ePc	38	33.49	-0.5
ATX	91.41	46	iPd	38	35.00	0.1
MZX	91.69	57	ePd	38	38.40	2.2
LNX	91.72	23	P	38	36.40	0.2
AAE	91.76	284	eP	38	40.40	3.3X
MRG	91.93	29	iP	38	38.20	1.1
WES	92.25	22	P	38	39.10	0.6
TOL	92.48	332	iP+	38	40.00	0.3
			iPP	42	23.00	
			e(PPP)	44	20.00	
			eSKS	49	17.00	
			iS	49	40.00	
			iPS	51	00.00	
			iSSS	59	33.00	
ALI	92.53	329	iP-	38	41.00	1.1
			iPP	42	19.00	
GPD	92.56	25	eP	38	40.40	0.3
PWLA	92.58	37	ePc	38	40.00	-0.2
HKT	92.80	45	iPc	38	41.70	0.5
			e	42	25.00	
			e	08	03.50	
PTO	92.84	336	iPc	38	41.30	0.0
			iPP	42	26.00	
			iS	49	18.00	
			iPS	50	54.00	
RSCP	93.16	35	ePc	38	42.90	0.0
NAV	93.64	31	eP	38	45.30	0.2
BLA	93.88	31	iP+	38	46.00	-0.2
Z	20s	43.40um			6.9Msz	
			eS	49	20.40	
CVL	93.93	29	eP	38	46.90	0.5
NA12	94.14	28	eP	38	47 40	0.1
ALM	94.59	330	iPd	38	50.40	1.0
	1.7s	5.20nm			4.7mb X	
			iPP	39	18.50	
			iPPP	39	24.90	
			iS	42	38.90	
LIS	95.22	336	iPc	38	52.80	0.5
MAL	95.42	331	iP+	38	53.00	-0.2
			iPP	42	46.00	
JSC	96.11	33	eP	38	56.50	0.1
IIC	98.69	54	eP	39	10.10	1.4
CRX	98.70	55	eP	39	10.20	1.5
IIM	99.07	54	iP	39	10.80	0.5
IIP	99.21	54	eP	39	12.70	1.6
NAI	100.06	277	iPdiff	39	17.00	2.1
	2.1s	333.00nm			6.5mb	
			iS	52	09.00	
LJX	100.14	53	ePdiff	39	15.20	-0.1
ACX	100.50	57	ePdiff	39	18.30	1.8
NPA	107.12	265	ePKP	44	13.00	17.5X
DRV	107.67	180	ePdiff	39	50.00	2.8X
BNG	109.33	294	iPdiff	39	57.00	1.1
	2.0s	20.00nm				
TET	112.05	268	ePKP	44	10.00	5.2X
	1.9s	0.19nm				
			i	44	50.00	
			iPKKP	55	05.00	
MIR	113.20	198	ePKP	44	07.00	1.5
Z	20s	23.50um			6.8Msz	
N	20s	15.00um				
E	20s	8.80um				
			iPS	54	32.00	
MTD	113.94	268	ePKP	44	09.00	0.4
			iPP	44	57.00	
			iPKKP	55	00.00	
			i	02	41.00	
KRI	115.45	270	ePKP	44	12.00	0.5
			iPP	45	12.00	
			iPKKP	54	51.00	
SJG	116.39	27	ePKP	44	05.00	-8.1X
Z	20s	43.30um			7.1Msz	
BUL	118.21	267	iPKPd	44	17.00	0.3
Z	19s	29.90um			6.9Msz	
N	19s	24.30um				
E	19s	22.90um				
			iPP	45	30.00	
			iPKKP	54	35.00	
			i	02	09.00	
CNG	119.10	259	iPKP	44	19.00	1.0
	0.9s	40.00nm				
			iPP	45	39.00	
JOZ	119.83	258	iPKPc	44	17.00	-2.4
SBA	120.12	173	ePKP	44	18.90	0.4
EVA	121.53	261	ePKP	44	24.00	1.1
			e	45	58.00	
SLR	121.69	262	iPKPc	-44	21.90	-1.3
	0.6s	200.00nm				
Z	22s	88.90um			7.4Msz	
			i	44	25.60	
PRE	121.77	262	ePKP	44	25.00	1.7
KIC	122.12	316	ePKP	44	23.20	-0.9
BPI	122.13	262	ePKP	44	22.80	-1.3
	0.9s	103.00nm				
TOV	122.60	34	ePKP	44	21.50	-3.6X
MAW	122.62	206	ePKP	44	25.00	1.6
PRY	122.96	262	iPKPc	44	27.00	1.4
UAV	123.06	36	ePKP	44	30.50	4.3X
BFS	123.45	262	e(PKP)	44	25.00	-1.5
	0.5s	37.00nm				
FUO	124.59	41	ePKP	44	29.00	-0.3
SWZ	124.70	263	iPKPc	44	28.00	-1.0
BLF	125.09	260	iPKPc	44	30.00	0.3
BOG	125.15	42	iPKP	44	31.50	1.0
KIM	125.95	261	ePKP	44	30.40	-1.0
	0.9s	91.00nm				
			i	46	27.00	
PSO	126.32	47	ePKP	44	32.50	-0.4
HVD	126.38	259	iPKPc	44	35.00	2.8X
	1.2s	42.00nm				
			i	46	31.00	
GRM	126.95	255	iPKPc	44	34.50	1.5
	0.9s	118.00nm				
Z	20s	44.60um			7.1Msz	
SUR	130.73	260	iPKPd	44	41.70	1.2
	1.5s	289.00nm				
Z	18s	75.30um			7.4Msz	
SYO	131.22	208	ePKP	44	40.00	0.1
CER	132.32	259	iPKPc	44	39.50	-3.7X
TUH	132.40	259	ePKP	44	40.50	-2.8X
NNA	137.09	57	ePKP	44	37.00	-15.8X
	1.0s	20.00nm				
HUA	138.09	56	ePKP	44	48.00	-7.2X
NVL	140.52	205	ePKP	44	51.00	-6.3X
			ipPKP	44	59.00	
			isPKP	45	06.00	
			iPP	47	59.00	
ARE	143.84	56	iPKPd	45	02.50	-2.6X
ZOBO	145.73	51	iPKPc	45	08.30	-0.4
LPB	145.95	52	PKPc+	45	09.50	0.6
ITR	147.48	355	e(PKP)	45	10.00	-0.9
			i	45	12.40	
SOB1	148.00	360	ePKP	45	11.60	-0.1
			e	45	13.90	
ANT	149.74	64	iPKP	45	16.50	2.4
BAO	153.66	16	PKP	45	21.00	0.8
SLA	153.69	59	e(PKP)	45	20.00	-0.1
VCA	154.48	69	ePKPd	45	22.80	1.7
LNV	154.84	83	ePKP	45	22.50	1.4
			e	45	32.50	
PEL	155.02	81	iPKPc	45	20.70	-0.8
TACH	155.06	82	iPKP	45	19.50	-2.0
SAN	155.18	81	ePKPd	45	22.00	0.4
BACH	155.26	81	ePKP	45	24.50	2.7X
FCH	155.40	81	iPKPd	45	23.00	0.6
CHCH	155.40	82	iPKPd	45	23.00	1.0
CEN	155.67	75	ePKP	45	28.00	5.5X
TCA	158.53	70	ePKPc	45	25.50	-0.5
VAO	161.02	17	ePKP	45	29.20	0.3
			e	45	40.80	
			e	46	14.50	
BMA	161.21	9	ePKP	45	31.20	2.2
			e	46	15.20	
RDJ	161.51	7	iPKP+	45	30.80	1.6
VBA	163.47	85	iPKPd	45	31.50	0.7
LPA	165.16	70	iPKP+	45	33.20	0.8
Z	21s	53.00um				

S.D. = 1.2 on 589 of 664 obs.

JUN 24, 1983 09h 06m 45.44± 0.21s
24.205 N ± 1.4km 122.446 E ± 1.4km
DEPTH = 41.7 ± 1.9 km
6.2mb (93 obs.) 6.7Msz (37 obs.)
TAIWAN REGION (243)

Felt on Taiwan. Felt (III JMA) on Iriomote-jima and (II JMA) on Ishigoki-shimo and Yonaguni-jimo, Ryukyu Islands.

TWC	0.68	307	iPd	06	59.80	1.2
TWD	0.79	261	iPc	06	59.80	-0.4
			eS	07	13.00	
TWZ	1.19	319	iPc	07	07.50	1.6
			eS	07	27.50	
ANP	1.29	319	iPc	07	08.90	1.5
TWF1	1.35	231	iPd	07	06.40	-1.8
			eS	07	25.00	
ISI	1.58	85	P+	07	12.20	0.9
			iS	07	30.90	
TWG	1.87	223	iPd	07	12.80	-2.7
MYK	2.65	77	eP	07	29.20	2.6
			iS	07	57.70	
QZH	3.58	283	iPn	07	39.90	-0.1
KMJ	4.48	61	iPd	07	55.40	2.7
			iS	08	47.50	
NAH	5.15	66	P	08	03.70	1.6
			S	09	03.60	
NGO	5.54	63	Pd	08	09.20	1.6
			S	09	10.70	
SSE	6.95	351	P+	08	27.00	-0.4
Z	13s	2600.00um				
N	10s	500.00um				
			i	08	35.00	
			i	09	10.00	
			Lg	10	36.00	
NZJ	7.57	55	eP	08	37.00	0.9
			S	10	13.00	
HKC	7.84	258	iP	08	40.50	0.7
			iS	10	11.00	
BAG	7.95	193	iPd-	08	37.90	-3.6X
MVI	8.13	77	eP	08	41.00	-2.9
			S	10	12.20	
GZH	8.42	264	eP	08	47.40	-0.4
NJ2	8.43	339	iPc	08	47.50	-0.5

24d 09h

S 10 20.50
MCO 8.44 258 iP 08 47.40 -0.7
iS 10 19.50
WHN 9.57 313 eP 09 02.00 -1.7
S 10 51.50
MAN 9.58 188 eP 09 00.00 -3.9X
QCP 9.60 188 iP 09 08.00 3.8X
TAJ 10.00 48 iP+ 09 16.50 7.0X
iS 11 21.00
FKJ 10.16 32 P+ 09 14.90 3.2X
S 11 19.50
KAG 10.26 43 eP 09 17.00 3.9X
eS 11 25.00
NGS 10.71 36 P+ 09 22.60 3.3X
eS 11 40.00
MYZ 11.04 44 eP 09 34.00 10.3X
eS 11 45.00
LGP 11.06 173 iPd 09 20.50 -3.5X
KUM 11.23 38 Pd 09 32.40 6.0X
SAG 11.34 36 Pd 09 33.50 5.7X
e 11 08.00
IZU 11.62 29 P 09 35.00 3.5X
eS 11 55.00
FKK 11.64 35 P+ 09 34.60 2.8
eS 11 53.00
NOB 11.65 42 eP 09 37.00 5.0X
eS 11 58.00
CNP 11.82 169 ePd 09 33.80 -0.6
OIT 12.07 40 Pd 09 43.50 5.9X
eS 11 54.00
SHN 12.22 35 ePd 09 43.00 3.3X
TIA 12.82 340 eP 09 46.40 -1.2
pP 09 58.50
S 12 13.00
PLP 13.19 169 iPc 09 51.30 -1.3
eS 10 12.00
HIR 13.35 38 eP 09 59.00 4.4X
e 12 38.00
HMD 13.54 36 Pd 10 02.00 4.9X
eS 12 39.00
SHK 13.61 39 eP 09 57.10 -0.9
MTS 14.50 37 Pd 10 14.20 4.5X
eS 13 08.00
TOT 15.17 39 eP 10 16.00 -2.4
eS 13 46.00
KOB 15.22 44 eP 10 30.00 10.9X
e 13 48.00
OSA 15.43 44 eP 10 30.00 8.2X
OSK 15.48 45 eP 10 30.00 7.5X
eS 13 24.00
CGP 15.81 172 ePc 10 24.00 -2.8
TIY 15.95 330 eP 10 30.80 2.2
BJI 16.65 343 iPc 10 39.00 1.7
eS 14 03.00
Lg 16 00.00
HJJ 17.60 56 eP 10 55.00 5.8X
eS 14 20.00
CD2 17.85 296 iPc 10 52.50 0.0
S 14 12.00
KMI 17.94 277 iP- 10 53.00 -0.7
E 12s 115.00um
iS 14 17.00
CBI 18.02 77 eP 10 56.00 1.5
eS 14 21.00
OSH 18.08 51 eP 10 55.00 -0.2
MAT 18.30 44 eP+ 10 55.00 -2.9
0.7s 44.50nm 4.7mb X
eS 14 21.00
OYM 18.34 49 eP 10 58.20 -0.2
SRY 18.46 48 eP 10 58.50 -1.4
DDR 18.63 47 eP 10 58.50 -3.4X
TOK 18.84 49 eP 10 58.00 -6.4X
HHC 18.94 334 P 11 07.00 1.3
KKM 19.02 199 ePd 11 05.10 -1.8
1.0s 237.00nm 5.4mb
BTO 19.39 330 iPc 11 11.00 0.1
CN2 19.70 6 iPc 11 13.40 -0.8
LZH 19.94 311 iPc 11 18.00 1.1
VLA 20.41 20 iPd 11 21.00 -0.5
iPP 11 37.00
iPcP 15 31.00
MDJ 21.18 14 Pc 11 28.00 -1.4
MIY 22.54 42 eP 11 38.00 -5.0X
eS 15 48.00
GUMO 23.66 112 eP 11 54.70 0.7
PJG 23.66 112 eP 11 54.50 0.4
(TT) 30 40.90

GUA 23.72 113 eP 11 54.70 0.0
1.2s 863.00nm 6.1mb
Z 18s 159.00um 6.5Msz
e(S) 16 15.00
GTA 24.39 314 iPc 12 02.00 0.8
iS 16 24.00
SAP 24.41 35 eP 12 03.00 1.9
eS 16 07.00
YSS 27.94 30 eP 12 32.30 -1.5
1.0s 210.00nm 5.8mb
Z 16s 102.00um 6.5MszX
N 16s 85.00um
E 16s 84.00um
ePP 13 12.00
ePPP 13 37.00
AAI 28.28 168 ePd 12 35.90 -1.2
0.9s 236.00nm 5.9mb
LSA 28.38 288 iPc 12 39.50 1.0
IPM 28.39 230 ePc 12 37.20 -1.0
1.0s 50.60nm 5.1mb X
e 13 05.30
e 15 49.80
e 19 29.90
MKS 29.39 186 iPc 12 46.00 -1.1
ZAK 30.07 335 iPc 12 51.20 -1.7
3.4s 2460.00nm 6.4mb X
N 16s 145.00um
E 15s 138.00um
eS 17 48.00
TSI 30.89 232 ePc 13 01.50 1.1
IRK 31.25 338 ePc 13 01.50 -1.8
2.8s 1310.00nm 6.2mb
Z 14s 338.00um 7.2MszX
N 13s 171.00um
E 12s 77.40um
esP 13 16.00
eS 18 05.00
JAY 31.95 144 ePd 13 10.00 0.3
PPI 32.53 224 eP 13 14.70 -0.1
1.5s 290.00nm 5.9mb
TRT 33.13 198 iPd 13 20.10 0.2
0.9s 218.00nm 6.0mb
PKI 33.41 284 eP 13 22.40 -0.4
KKN 33.51 284 eP 13 23.40 -0.2
1.0s 640.00nm 6.5mb
DMN 33.68 284 eP 13 24.80 -0.2
WMQ 34.48 313 P 13 31.00 -0.5
TZZ 34.54 146 eP 13 32.00 -0.3
MOM 35.62 134 eP 13 42.00 0.6
SKR 37.04 36 eP 13 51.00 -2.0
0.7s 60.00nm 5.6mb
Z 22s 125.00um 6.7Msz
N 22s 74.20um
E 22s 73.60um
ePP 15 12.00
eS 19 28.00
MDG 37.07 139 eP 13 55.00 1.4
MTN 37.79 166 eP 13 57.00 -2.6
YAK 38.12 6 iPc 13 59.20 -2.7
1.0s 700.00nm 6.5mb
Z 12s 103.00um 6.9MszX
iPP 15 29.10
iPcP 16 19.10
iS 19 53.10
esS 20 05.10
iScS 24 07.30
KVG 38.31 130 eP 14 05.00 0.9
LAT 38.91 139 eP 14 10.00 0.9
PET 39.64 34 eP 14 13.00 -1.7
1.5s 300.00nm 5.9mb
Z 19s 88.00um 6.6Msz
N 19s 30.00um
E 19s 85.00um
eS 20 16.00
esS 20 35.00
ELT 39.76 326 iPc 14 15.30 -0.3
3.0s 1450.00nm 6.3mb
N 13s 21.30um
RAB 40.42 130 iPd+ 14 24.70 3.1X
PRZ 40.55 308 eP 14 24.00 1.4
1.2s 1010.00nm 6.5mb
Z 22s 68.40um 6.5Msz
N 22s 55.20um
E 22s 66.00um
ePcP 16 20.00
eSSS 23 55.00
NDI 40.56 286 iPc 14 23.00 0.4

0.8s 134.00nm 5.8mb
eS 20 10.00
MGD 40.94 21 ePc 14 22.30 -3.0X
1.1s 50.00nm 5.2mb X
Z 20s 218.00um 7.0Msz
N 20s 149.00um
E 20s 64.00um
ePP 16 07.00
iPPP 16 29.00
eS 20 37.00
iSSS 24 00.00
PMG 41.21 141 eP+ 14 28.00 0.0
LMG 41.39 140 eP 14 30.50 0.9
TLG 41.45 309 iPc 14 31.90 2.1
Z 14s 67.00um 6.7MszX
ePP 16 13.00
iS 20 43.00
HYB 41.45 269 ePc 14 30.50 0.4
1.6s 500.00nm 6.0mb
SEM 41.74 320 iPc 14 31.60 -0.4
0.9s 1490.00nm 6.7mb
ePP 16 10.50
eS 20 48.00
KSH 41.84 303 iPc 14 36.00 2.8
NRN 42.11 306 iPd 14 36.00 0.4
eS 20 53.00
NVS 42.11 327 iPc 14 33.80 -1.1
1.6s *******nm 7.4mb X
FRU 43.35 307 iPc 14 46.00 0.6
1.2s 760.00nm 6.3mb
Z 19s 78.00um 6.6Msz
N 19s 54.00um
E 18s 71.00um
isP 15 03.00
ePP 17 00.00
eS 21 12.00
esS 21 24.00
iScS 24 46.00
SEY 43.55 19 iPc 14 44.80 -1.8
Z 18s 138.00um 6.9Msz
N 17s 103.00um
E 18s 87.00um
isP 15 02.00
ePP 16 31.30
iPcP 16 35.20
eS 21 05.80
GBA 43.70 264 Pc 14 48.20 -0.2
0.8s 46.40nm 5.3mb
PAA 44.24 129 eP 14 53.00 0.1
ANR 44.75 304 iPc 14 57.50 0.8
1.2s 1100.00nm 6.6mb
Z 18s 60.00um 6.6Msz
N 16s 33.00um
E 16s 80.00um
eS 21 35.50
iSPP 21 51.50
KHO 45.17 299 iPc 15 01.00 0.7
4.0s 9000.00nm 7.0mb X
N 15s 40.00um
E 15s 32.00um
eS 21 40.90
WRA 45.39 164 Pc 15 04.00 2.2
0.8s 153.00nm 5.9mb
WB2 45.39 164 iPd 15 00.90 -0.9
eS 21 08.80
eP'P' 46 22.30
POO 45.43 273 iPc 15 03.00 0.6
GAR 46.19 302 iPc 15 08.00 -0.2
3.5s 3500.00nm 6.7mb X
Z 16s 18.00um 6.1MszX
eS 21 42.50
KUL 46.59 300 iPc 15 11.70 0.4
3.9s 7400.00nm 7.0mb X
Z 19s 80.20um 6.7Msz
N 14s 31.00um
E 16s 44.60um
iPcP 16 45.40
iPP 17 05.20
iS 22 00.70
NAU 46.96 189 eP 15 14.00 -0.1
TAS 47.11 305 ePc 15 16.60 1.3
2.5s 5000.00nm 7.0mb
Z 26s 68.00um 6.5MszX
N 16s 59.00um
E 12s 40.00um
esP 15 34.00
ePP 17 09.60

		ePPP	17	48.60		
		eS	22	06.60		
		eScS	25	08.60		
DSH	47.38	301 iPc	15	18.50	1.0	
	2.5s	1500.00nm			6.5mb	
	Z 18s	55.00um			6.6Msz	
	N 18s	46.00um				
	E 18s	56.00um				
		iPP	17	12.00		
		eS	22	12.50		
TIK	47.60	3 ePc	15	16.00	-2.7	
	Z 17s	390.00um			7.4MszX	
	N 17s	250.00um				
	E 14s	41.00um				
		epP	15	23.00	23kmX	
		esP	15	31.00		
		ePcP	16	47.00		
		eS	22	02.00		
ISQ	47.65	158 eP	15	19.00	-0.8	
SAM	48.79	302 iPc	15	29.00	0.6	
	3.5s	8500.00nm			7.2mb X	
	N 19s	67.00um				
	E 19s	59.00um				
		iPP	17	26.80		
		iS	22	32.20		
		isS	22	50.60		
		eSS	25	54.20		
ASPA	48.87	166 iPd	15	28.50	-0.6	
SVO	49.29	128 P	15	38.00	5.5X	
HNR	49.58	128 eP	15	36.00	1.3	
		e	22	40.00		
NRI	49.60	345 eP	15	30.30	-3.9X	
	3.4s	980.00nm			6.3mb X	
	Z 17s	140.00um			7.0MszX	
	N 17s	65.00um				
	E 17s	119.00um				
		esP	15	45.00		
		ePcP	16	55.00		
		ePP	17	25.00		
		ePPP	18	18.00		
		eS	22	36.00		
CTA	49.76	150 iPd	15	35.60	-0.4	
	1.7s	506.00nm			6.3mb	
		iS	22	44.00		
		i	26	28.00		
		i	31	18.00		
CTAO	49.76	150 eP	15	35.50	-0.5	
WBN	50.21	175 iPc	15	39.40	0.1	
MEK	50.66	185 iPc	15	41.20	-1.6	
ADK	53.46	42 eP	16	02.00	-1.4	
KLG	54.68	181 eP	16	12.00	-0.6	
SVE	54.71	324 iPc	16	11.50	-1.1	
	3.7s	3540.00nm			6.8mb X	
	Z 17s	84.00um			6.9MszX	
	N 17s	22.00um				
	E 17s	70.00um				
		ePcP	17	14.70		
		eS	23	53.00		
		eSP	23	57.00		
BAL	54.78	186 eP	16	13.00	-0.3	
MHI	54.85	298 iPc	16	15.00	0.9	
	1.0s	420.00nm			6.4mb	
		eS	23	56.00		
ASH	55.60	300 P	16	20.00	0.7	
	1.5s	2200.00nm			7.0mb	
		esP	16	36.00		
		ePcP	17	20.00		
		ePP	18	30.00		
		ePPP	19	44.00		
		eS	24	06.00		
		eScS	26	07.50		
ARU	55.76	323 eP	16	18.70	-1.5	
	1.5s	500.00nm			6.3mb	
	Z 16s	34.50um			6.5MszX	
	N 16s	29.00um				
	E 16s	38.00um				
		ePcP	17	17.00		
		iPP	18	32.70		
		ePPP	19	44.00		
		eSP	24	13.00		
		eScS	26	03.00		
VAN	55.79	300 ePc	16	21.00	0.3	
	Z 20s	49.00um			6.6Msz	
	E 19s	52.00um				
		ipP	16	32.50	39kmX	
		eS	24	10.00		
		eScS	26	10.00		
KHI	55.80	296 ePc	16	20.80	-0.3	
MUN	56.18	186 eP	16	25.00	1.5	
ILT	56.21	23 iPd	16	21.20	-2.1	
	1.0s	150.00nm			6.0mb	
	Z 16s	82.00um			6.9MszX	
	N 16s	57.00um				
	E 16s	30.00um				
		ipP	16	31.50	34kmX	
		iPcP	17	22.00		
		iPP	18	27.50		
		iS	24	12.00		
		eScS	26	04.00		
NWAO	57.03	185 iPd	16	29.10	-0.4	
NKI	58.31	42 P	16	38.00	-0.3	
STK	58.70	161 eP	16	40.00	-1.2	
KOU	60.32	134 iPd	16	54.50	2.0	
ANM	60.77	28 eP	16	53.00	-2.1	
ADE	60.83	165 eP	16	56.30	0.4	
	1.2s	406.00nm			6.4mb	
PVC	61.15	129 iPc	17	07.50	9.3X	
COO	61.35	151 eP	17	01.00	1.5	
SHI	61.73	292 iPc	17	01.50	-0.9	
BAK	61.81	304 iPd	17	04.00	1.5	
	4.0s	********nm			7.3mb X	
		iS	25	31.00		
KHE	62.16	350 iPc	17	03.00	-1.4	
	1.6s	420.00nm			6.3mb	
	Z 14s	220.00um			7.5MszX	
	N 14s	62.00um				
	E 14s	120.00um				
		ipP	17	11.00	26kmX	
		ePP	19	20.00		
		ePPP	20	48.00		
		eS	25	14.00		
		eSS	29	20.00		
NOU	62.98	134 iPc	17	10.80	0.4	
YOU	63.17	156 eP	17	10.90	-0.6	
		i	19	44.50		
RIV	63.85	154 eP	17	19.00	3.1X	
BFD	63.92	162 eP	17	17.00	0.6	
CAN	64.32	156 eP	17	18.20	-0.9	
		e	19	56.90		
GRO	64.44	308 iPc	17	20.00	0.2	
	1.5s	750.00nm			6.5mb	
	Z 16s	37.00um			6.7MszX	
KRV	64.45	305 iPc	17	20.00	0.0	
	1.0s	800.00nm			6.7mb	
GRS	64.67	304 iPc	17	27.80	6.2X	
	6.0s	6900.00nm			6.9mb X	
	Z 17s	21.00um			6.4MszX	
	N 17s	9.70um				
	E 17s	31.60um				
		iPP	19	50.40		
		iPPP	21	12.40		
		iS	26	02.40		
		iSP	26	16.60		
		eSS	30	15.00		
TAB	64.96	302 iP+	17	25.00	1.5	
WAM	65.06	157 eP	17	23.00	-0.8	
		e	19	46.90		
KER	65.15	298 eP	17	26.00	1.2	
TOO	65.16	160 eP	17	25.00	0.6	
MTA	65.39	306 iPc	17	26.00	0.1	
	Z 18s	24.00um			6.4Msz	
	N 18s	12.00um				
	E 18s	12.50um				
		esP	17	40.20		
		iSP	26	22.60		
IMA	65.67	26 eP	17	26.30	-1.3	
	1.1s	14.20nm			4.9mb X	
		epP	17	59.00	135kmX	
ERE	65.91	305 iPc	17	30.00	0.5	
		iS	26	18.00		
PYA	66.19	309 iPc	17	31.00	-0.1	
	3.0s	1500.00nm			6.5mb	
	Z 22s	45.00um			6.6Msz	
	N 22s	33.60um				
	E 22s	45.00um				
		ipP	17	42.00	36kmX	
		iPP	20	00.00		
		iPPP	21	40.00		
		iPPS	26	52.00		
LEN	66.28	306 iPc	17	33.00	1.1	
	4.2s	9500.00nm			7.2mb X	
	Z 20s	61.90um			6.8Msz	
	N 20s	25.90um				
	E 20s	20.30um				
		iPcP	18	00.00		
		iS	26	26.00		
BKR	66.32	307 iP	17	32.80	0.6	
	1.3s	600.00nm			6.5mb	
		iPP	20	05.80		
		iS	26	24.80		
		iSSS	33	37.80		
KDC	67.28	35 eP	17	36.80	-0.9	
MOS	67.49	322 iPc	17	37.00	-2.1	
	6.0s	7100.00nm			6.9mb X	
	Z 12s	17.70um			6.5MszX	
	N 13s	9.10um				
	E 14s	25.90um				
		iPcP	17	59.00		
		ePP	20	07.00		
		ePPP	21	46.00		
		eS	26	29.00		
		ePS	26	59.00		
		eSSS	33	52.00		
APA	67.55	335 iPd	17	38.70	-0.6	
	1.2s	280.00nm			6.2mb	
	Z 18s	86.00um			7.0Msz	
		ipP	17	50.30	39kmX	
		iPcP	18	05.80		
		ePP	20	06.00		
		iPPP	21	39.00		
		eS	26	31.00		
		iSP	26	46.00		
		ePPS	27	07.00		
		eSS	30	46.00		
MSL	67.81	301 eP	17	41.20	-0.3	
OBN	68.17	322 iPc	17	41.30	-2.0	
	1.8s	540.00nm			6.3mb	
	Z 20s	55.00um			6.8Msz	
	N 20s	33.50um				
	E 20s	38.50um				
		eS	26	38.00		
COL	68.26	27 eP	17	42.00	-1.8	
	Z 18s	38.80um			6.7Msz	
		eS	26	44.00		
FBA	68.26	27 P	17	43.00	-0.8	
PMR	68.28	31 ePd	17	43.20	-0.7	
PME	68.32	31 eP	17	42.10	-2.1	
	1.1s	54.00nm			5.5mb	
	Z 20s	30.00um			6.5Msz	
		epP	18	12.00	121kmX	
SOC	68.65	309 iPc	17	45.50	-1.1	
	5.0s	6500.00nm			6.9mb X	
	E 17s	45.00um				
		iPcP	18	14.00		
		eS	26	46.00		
VUN	68.87	122 eP	17	50.70	2.4	
KEV	69.39	338 iP+	17	47.00	-3.6X	
	1.0s	126.00nm			5.9mb	
		ePP	20	20.00		
		ePPP	22	00.00		
		epPPP	23	04.00		
		eScS	26	52.00		
		eSS	31	40.00		
ANN	70.02	311 iPc	17	53.00	-1.9	
		eScS	27	48.00		
SOD	70.12	336 iP	17	53.00	-2.1	
PUL	70.46	328 iPc	17	56.00	-1.3	
	4.0s	3800.00nm			6.7mb X	
	Z 18s	110.00um			7.2Msz	
	N 20s	14.00um				
	E 18s	90.00um				
		epP	18	03.50	24kmX	
		iPcP	18	23.00		
		iPPP	22	15.00		
		iS	27	04.00		
		ePS	27	42.00		
		eSPP	27	47.00		
KJF	70.51	332 iP+	17	56.80	-0.7	
	0.8s	103.00nm			5.9mb	
		ePP	20	36.00		
		epPP	22	12.00		
		epPPP	23	24.00		
		eScS	27	04.00		
		eSS	31	52.00		
		eSSS	35	32.00		
SUF	71.60	331 iP	18	04.10	0.0	
	1.0s	232.00nm			6.1mb	
SIM	72.18	312 iPc	18	07.00	-1.0	
	8.0s	6000.00nm			6.6mb X	
	Z 22s	29.10um			6.5Msz	
	N 22s	26.20um				

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	E 22s 36.30um					
	iPcP	18	28.00			
	ePPP	22	36.00			
	eScS	28	08.00			
KIR	72.24	337	iP	18	02.20	-5.7X
HON	72.43	74	P	18	16.00	6.2X
INK	72.79	22	eP	18	09.00	-2.1
	0.9s 113.00nm				5.8mb	
PCA	72.86	31	eP	18	12.30	0.5
NUR	72.96	329	iP	18	11.20	-1.0
	1.1s 187.00nm				6.0mb	
	Z 18s 95.90um				7.1Msz	
	epPP	22	36.00			
	epPPP	24	00.00			
	eS	27	28.00			
	eSP	28	20.00			
	eSS	33	00.00			
MBC	72.99	13	eP	18	10.00	-2.2
	0.5s 28.00nm				5.5mb	
KIS	75.03	315	iPc	18	24.00	-0.5
	5.0s 6000.00nm				6.8mb X	
	Z 17s 27.70um				6.6MszX	
	N 16s 18.60um					
	E 18s 20.50um					
	iPcP	18	38.00			
	iS	28	08.00			
JER	75.47	298	ePc	18	28.00	0.6
TDD	75.81	277	eP	18	31.00	1.6
ARO	75.96	276	eP	18	20.20	-10.2X
CFR	76.12	313	ePd	18	30.00	-0.7
CLI	76.21	315	ePc	18	31.00	-0.2
DAF	76.22	277	eP	18	33.50	1.7
GPA	76.32	308	iP	18	31.70	-0.3
SIT	76.36	33	eP	18	31.50	-0.3
TLB	76.41	313	ePc	18	32.00	-0.3
UPP	76.46	330	iPc	18	31.20	-1.1
	1.0s 5200.00nm				7.5mb X	
	iPP	21	25.00			
	iS	28	01.00			
	i	28	04.00			
DAG	76.54	351	iPd	18	31.70	-0.8
	1.1s 81.00nm				5.6mb	
	i	21	27.00			
	i	29	15.00			
HRT	76.59	309	iP	18	33.40	-0.1
VRI	76.82	314	ePc	18	34.00	-0.6
ALT	76.89	307	iPc	18	34.20	-1.1
YLV	76.89	309	iP	18	35.40	0.2
ISK	76.94	309	iP	18	35.90	0.5
LVV	77.05	319	iPc	18	35.40	-0.4
	6.0s 8700.00nm				7.0mb X	
	Z 18s 36.80um				6.7Msz	
	N 18s 26.00um					
	E 18s 26.00um					
	iPcP	18	41.00			
	iPP	21	29.00			
	iPPP	23	19.00			
	iS	28	21.00			
	iSKS	28	35.00			
	iPS	29	07.00			
	iSS	33	20.00			
BCK	77.09	305	eP	18	35.30	-1.1
ISR	77.20	314	ePd	18	38.00	1.2
MLR	77.46	314	iPd	18	41.00	2.6
DMK	77.58	310	eP	18	38.00	-0.9
DST	77.77	308	eP	18	38.70	-1.3
BUC1	77.83	313	iPc	18	36.20	-4.0X
ELL	77.85	305	iP	18	39.10	-1.6
EDC	78.04	309	eP	18	41.00	-0.5
HFS	78.11	331	(P)	18	40.60	-0.8
	1.2s 191.00nm				6.0mb	
CMP	78.14	314	ePc	18	41.00	-0.9
MFT	78.29	309	iP	18	42.40	-0.6
CJR	78.51	316	eP	18	45.10	1.1
UZH	78.56	318	ePc	18	44.50	0.4
	2.0s 1200.00nm				6.5mb	
	isP	19	01.00			
	iPP	21	40.00			
	iPPP	23	40.00			
	iSKS	28	51.00			
	iScS	29	00.00			
COZ	78.57	315	iPd	18	45.50	1.0
NB2	78.74	332	P	18	45.00	0.1
	1.1s 141.00nm				5.9mb	
PVL	78.86	312	iPc	18	46.00	0.1
YER	78.92	306	iPc	18	45.50	-1.0
DIM	79.00	311	eP	18	47.00	0.3
IZM	79.20	307	iP	18	46.50	-1.4
EZN	79.33	309	iPc	18	47.00	-1.5
KRA	79.38	320	ePc	18	47.70	-0.9
	0.8s 130.00nm				5.9mb	
	Z 16s 40.10um				6.9MszX	
	N 16s 31.50um					
	E 16s 32.30um					
	i	18	50.80			
	i	18	55.70			
	e	20	20.00			
	e	21	50.00			
	iS	28	58.00			
KRP	79.39	140	eP	18	49.00	0.3
SPC	79.57	319	iP	18	50.00	0.2
	i	19	07.00			
	e(PP)	21	49.40			
	e(S)	29	20.70			
CLO	79.67	315	ePc	18	51.00	0.7
JOS	79.68	319	e(P)c	18	51.00	0.8
MSZ	80.14	149	eP	18	52.20	-0.3
PSZ	80.32	318	ePc	18	54.00	0.3
VTS	80.41	312	iPc	18	55.00	0.8
SSR	80.44	315	iP	18	55.00	0.6
AAE	80.63	276	eP	18	56.70	0.4
SRS	80.74	311	ePd	18	55.60	-0.4
RHP	80.76	147	P	18	58.10	2.1
OUR	80.79	310	ePd	18	57.00	0.8
COP	80.85	327	iPc	18	56.00	-0.2
	0.8s 89.60nm				5.8mb	
	iS	29	15.00			
SOH	81.03	311	ePc	18	58.00	0.4
BUD	81.04	318	ePc	18	58.00	0.6
KSP	81.13	322	iPc	18	57.50	-0.3
	1.5s 295.00nm				6.0mb	
PAIG	81.16	310	ePd	18	58.80	0.6
MNG	81.17	142	eP	18	57.50	-0.6
	pP	19	16.00	67kmX		
	ePP	22	04.00			
WEL	81.22	143	eP	18	52.00	-6.3X
	Z 18s 31.60um				6.7Msz	
	N 18s 20.60um					
	E 20s 19.90um					
	PP	22	20.00			
	SKS	29	06.00			
	(S)	30	04.00			
	PS	34	00.00			
	SS	35	02.00			
	SSS	40	42.00			
SRO	81.32	319	iP	18	59.10	0.2
	Z 18s 27.40um				6.7Msz	
	e(S)	29	08.50			
GNZ	81.33	139	eP	18	59.00	0.0
VAY	81.36	311	eP	18	58.30	-0.9
THE	81.37	311	eP	19	00.00	0.7
	eS	29	18.00			
GRG	81.63	311	ePc	19	00.20	-0.5
SKO	81.86	312	iPc	19	02.00	0.2
	iS	29	28.00			
	iSS	34	50.00			
ZST	81.87	319	eP	19	01.50	-0.3
	i	19	19.50			
	e	21	47.70			
	e(S)	29	42.10			
LIT	81.92	310	ePd	19	01.30	-0.9
BRN	82.07	324	ePc	19	03.50	0.9
VKA	82.31	320	ePc	19	04.50	0.4
	4.1s 5230.00nm				6.9mb X	
	ePP	22	04.70			
	(sS)	29	20.00			
BRG	82.42	323	iPc+	19	04.40	-0.2
	3.0s 1020.00nm				6.3mb	
	Z 18s 63.00um				7.0Msz	
	N 18s 20.00um					
	E 18s 43.00um					
	eSKS	29	21.00			
YKA	82.50	23	eP	19	06.50	1.7
RSNT	82.52	23	eP	19	03.70	-1.1
PRU	82.52	322	iPc	19	05.00	-0.1
	2.7s 772.00nm				6.3mb	
	Z 19s 37.50um				6.8Msz	
	N 24s 34.30um					
	E 17s 30.00um					
	e	19	34.00			
	S	29	20.00			
YKC	82.56	23	eP	19	04.00	-1.1
	1.0s 131.00nm				5.9mb	
OHR	82.66	312	iP	19	05.10	-1.0
CLL	82.73	323	iPc	19	05.60	-0.5
	3.1s 1200.00nm				6.4mb X	
	eSKS	29	21.00			
	e	48	57.00			
HAM	83.24	326	iPc	19	09.80	1.1
PHC	83.40	37	eP	19	10.00	0.4
	1.0s 161.00nm				6.1mb	
KHC	83.49	321	iP	19	05.60	-4.6X
	Z 16s 15.70um				6.5MszX	
	N 16s 8.30um					
	E 16s 12.60um					
	i	19	11.00			
	e	19	38.00			
	e	22	25.50			
	S	29	30.00			
KMR	83.69	320	iP+	19	11.80	0.6
MOX	83.82	323	iPc+	19	12.00	0.2
	3.8s 2940.00nm				6.7mb X	
	Z 15s 42.30um				6.9MszX	
	N 16s 83.00um					
	E 22s 30.30um					
	ePP	22	28.00			
	eS	29	40.00			
	eSS	35	40.00			
WET	83.88	322	eP	19	11.40	-0.7
	2.8s 1290.00nm				6.5mb	
	eS	29	34.00			
LJU	84.44	318	ePc	19	15.00	0.0
	eS	29	34.00			
AVY	84.46	247	ePc	19	16.00	0.3
GRF	84.53	323	iPc	19	16.40	1.0
	1.7s 529.00nm				6.4mb	
	Z 19s 35.00um				6.8Msz	
	e	19	44.60			
	ePP	22	31.00			
KBA	84.64	320	ePc	19	16.10	-0.1
	1.2s 135.00nm				6.0mb	
	i	19	18.60			
	i	19	26.70			
	(PP)	22	34.50			
	(sS)	30	19.50			
TRI	85.07	318	eP	19	17.20	-0.9
	ePP	22	32.10			
	iPPP	24	31.00			
	eS	29	37.20			
	eSS	35	16.00			
	eSSS	38	36.00			
WIT	85.24	327	eP	19	20.00	1.2
FUR	85.29	321	eP	19	20.00	0.8
	1.8s 1020.00nm				6.7mb	
	eS	29	40.00			
AKU	85.46	345	iP	19	19.80	0.1
	1.1s 70.90nm				5.8mb	
	Z 17s 47.60um				7.0MszX	
	i	23	32.90			
WTS	85.63	326	eP	19	21.50	0.7
	3.0s 875.00nm				6.4mb	
	i	19	30.20			
	e	19	47.00			
TNS	85.76	324	ePc	19	21.20	-0.4
	ePP	22	43.30			
	eS	29	45.00			
BNS	86.02	325	iPc	19	20.50	-2.3
	6.0s 6.90nm				4.1mb X	
	ePP	22	40.00			
	eS	30	13.80			
OGA	86.11	320	iPc	19	21.30	-2.3
	1.4s 275.00nm				6.3mb	
DBN	86.40	327	iP+	19	26.00	1.5
	Z 20s 36.00um				6.8Msz	
	ePP	22	46.00			
	eSKS	29	50.00			
	eS	30	02.00			
	ePS	31	06.00			
	eSS	36	00.00			
	eSSS	39	52.00			
NAI	86.54	267	eP	19	29.00	2.8
	1.1s 114.00nm				6.0mb	
SGO	86.61	313	ePc	19	26.50	0.7
	ePP	22	50.00			
PGC	86.68	37	eP	19	27.60	1.6
GDH	86.77	359	iPd	19	26.80	0.7
	1.1s 127.00nm				6.1mb	
	iS	30	05.00			
ENN	86.79	325	ePc	19	27.00	0.5
	2.5s 263.00nm				6.0mb	
	ePP	22	48.00			

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GWF	86.90	323	iPc	19	28.20	1.1	FCC	91.97	18	eP	19	49.20	-1.6	ATX	113.41	38	ePKP	25	20.50	-0.5
AQU	86.97	315	eP	19	28.50	0.8		1.1s	241.00nm			6.5mb		HKT	114.81	36	ePKP	25	24.00	0.4
SAL	87.07	319	eP	19	28.50	0.5	SES	91.98	31	ePc	19	50.50	-0.5	KIC	120.24	294	ePKP	25	33.30	-1.1
	1.0s	230.00nm			6.4mb			1.0s	371.00nm			6.8mb					e	27	00.00	
SLE	87.09	322	iP+	19	27.50	-0.6	CAF	92.36	322	iPc	19	54.20	1.3	IIC	120.33	47	ePKP	25	35.20	0.3
LLS	87.29	321	iP+	19	29.00	-0.3	RJF	92.43	323	iPc	19	54.40	1.2	IIP	120.85	47	ePKP	25	36.60	0.7
ZUL	87.30	322	iP+	19	28.00	-1.1	MFF	92.51	324	eP	19	54.70	1.2	IIT	121.49	46	ePKP	25	38.20	1.2
WLF	87.30	324	P+	19	30.00	1.0		1.8s	191.00nm			6.2mb		ACX	121.94	49	ePKP	25	37.40	-0.2
			PP	22	57.00		FFC	92.65	24	eP	19	53.00	-1.0	SJG	137.11	12	ePKP	26	06.40	-0.2
			S	30	09.00			0.7s	155.00nm			6.5mb			Z 20s		16.30um			6.8Msz
			SS	36	13.00		ORV	92.95	44	eP	19	55.30	-0.4	TOV	144.16	21	ePKP	26	17.30	-2.0
CDF	87.40	323	eP	19	30.20	0.5	LPO	93.00	322	iPc	19	56.90	1.1	CAR	144.31	16	iPKPd	26	13.00	-6.6X
	1.4s	318.00nm			6.4mb			1.4s	252.00nm			6.5mb			1.0s	84.00nm				
MNS	87.42	316	eP	19	29.50	-0.2	LFF	93.09	323	iPc	19	57.40	1.2	SDV	144.72	23	ePKP	26	19.20	-1.2
UCC	87.58	326	P+	19	30.00	-0.3		1.4s	252.00nm			6.5mb		UAV	144.79	24	ePKP	26	20.20	-0.3
			e	19	57.30		MIR	93.18	191	eP	20	11.00	15.1X	CHN	146.08	34	iPKP	26	23.00	0.3
			PP	22	55.00					epP	20	18.00	22kmX	BOG	147.14	31	ePKP	26	25.20	0.5
			S	30	26.00					isP	20	29.00		PSO	148.29	40	ePKP	26	27.00	0.4
ECH	87.58	323	iPc	19	30.60	0.2	BKS	93.43	46	eP	19	59.20	1.3	ITR	156.13	307	ePKP	26	37.20	-0.1
FIR	87.59	317	eP	19	31.00	0.5		1.2s	170.00nm			6.4mb					i	26	42.20	
			iS	29	50.00			Z 20s	11.00um			6.3Msz					e	27	04.80	
RMP	87.70	315	eP	19	31.00	-0.1		N 20s	6.00um					SOB1	158.20	310	ePKP	26	39.40	-0.5
			ePP	22	56.00			E 20s	12.00um								e	26	42.10	
			eS	29	57.00					ePP	23	38.00					e	27	03.20	
TMA	87.78	320	iP+	19	30.50	-1.1				eS	29	30.00					e	27	15.10	
DOU	87.87	325	P+	19	32.00	0.3				eSSS	40	53.20		ARE	164.84	62	ePKP	26	51.00	4.1X
			PP	22	59.00		VAL	93.62	333	iP	19	59.00	0.6	LPB	167.51	54	PKPc	26	51.00	1.9
			S	30	18.00					S	30	42.00			0.8s	194.00nm				
BAF	87.89	322	iPc	19	32.30	0.3	MHC	94.12	46	eP	20	01.90	0.7		Z 20s	12.10um				
BSF	88.00	323	eP	19	32.70	0.1	LRM	94.34	35	eP	20	08.10	5.8X				SKS	38	20.00	
	1.4s	225.00nm			6.2mb		EPF	94.51	321	iPc	20	03.00	0.1	ANT	168.23	90	ePKP	26	52.50	3.6X
HAU	88.15	323	eP	19	33.60	0.4		1.4s	87.80nm			6.0mb		LPA	169.33	178	iPKP-	26	48.80	-0.4
	1.4s	192.00nm			6.2mb		JAS	94.55	45	eP	20	02.80	-0.3		Z 22s	17.00um				
VG1	88.29	319	eP	19	33.50	-0.3	PRI	95.44	46	eP	20	09.60	2.2	VAO	170.22	275	ePKP	26	51.40	1.2
			eS	30	07.50		TET	95.47	255	eP	20	18.00	10.5X		S.D. = 1.1		on 362 of 412 obs.			
MMK	88.33	321	iP+	19	33.00	-1.4				e(S)	30	45.00								
PNT	88.38	35	eP	19	34.00	-0.3	EBR	95.81	320	eP	20	09.00	0.2	&	JUL 12, 1983 15h 10m 04.32s					
	1.1s	309.00nm			6.5mb					e	24	02.00			61.028 N		147.147 W			
			pP	19	52.00	64kmX				e	30	56.00			DEPTH = 17.5km (geophysicist)					
DIX	88.64	321	iP+	19	35.50	-0.4	EUR	96.43	42	iP	20	12.00	0.0		6.3mb (89 obs.) 6.4Msz (42 obs.)					
LON	88.67	38	ePc	19	36.10	0.4		0.5s	5.32nm			5.3mb			SOUTHERN ALASKA					(2)
COR	89.01	41	iPd	19	39.00	1.7	LGR	96.48	322	iPd	20	13.40	1.6		<AGS>. Damage (VI) at Valdez.					
EDM	89.02	30	ePc	19	37.40	0.1				eS	30	41.00			Felt (V) at Chitina, Chugiak,					
	1.1s	468.00nm			6.7mb		MTD	97.48	255	eP	20	19.00	2.3		Cooper Landing, Copper Center,					
CVF	89.71	317	eP	19	41.40	0.7				ipP	20	35.00	55kmX		Cordova, Fort Richardson,					
	1.3s	316.00nm			6.5mb					ePP	24	13.00			Gakona, Girdwood, Moose Pass,					
VDM	89.71	325	eP+	19	41.50	1.0	DUG	97.85	39	P	20	30.00	11.8X		Skwentna, Sutton, Whittier and					
LOR	89.94	323	iPc	19	41.80	0.1	BDW	97.93	36	eP	20	19.20	0.6		Willow. Felt (IV) at Anchorage,					
LBF	90.05	323	iPc	19	42.60	0.4		1.2s	29.00nm			5.7mb			Palmer and Seward. Felt (III) at					
NPA	90.05	254	iP	19	44.00	1.4				e	20	33.00			Fairbanks and Yakutat. Also felt					
			i	19	52.00		ALI	97.95	318	iP-	20	18.00	-0.5		(III) at Whitehorse, Yukon					
			e	20	18.00					i	24	18.00			Territory.					
SSF	90.26	323	iPc	19	43.60	0.5	PAS	98.27	47	eP	20	21.00	1.0							
	1.4s	159.00nm			6.1mb			Z 20s	19.30um			6.6Msz		VLZ	0.41	75	iPc	10	12.71	0.0
SMF	90.33	323	eP	19	43.80	0.3		N 20s	6.40um					PWL	0.60	254	iPc	10	14.70	-1.4
NEW	90.33	35	iPc	19	44.10	0.6		E 20s	10.70um					HIN	0.71	153	iPc	10	18.12	0.3
	1.0s	270.00nm			6.5mb					ePP	24	28.00		KNK	0.74	302	iPc	10	17.58	-0.8
AVF	90.51	323	eP	19	44.50	0.2				ePPP	27	04.00		KLU	0.75	51	iPc	10	17.75	-0.9
FRF	90.51	319	eP	19	44.70	0.3				eS	31	12.00		SCM	0.81	354	iPc	10	18.87	-0.8
	1.3s	330.00nm			6.5mb					ePS	33	20.00		CVA	0.84	125	iPc	10	20.44	0.4
YKM	90.69	34	iPc	19	46.10	0.8				eSS	38	44.00		TSIM	0.90	76	iPc	10	20.15	-1.0
LMR	90.72	319	eP	19	45.90	0.6	RSON	98.74	22	ePc	20	21.00	-0.8	PTE	0.93	261	iPc	10	20.10	-1.5
	1.3s	237.00nm			6.4mb		KRI	99.24	256	eP	20	19.00	-5.7X	SML	0.97	324	iPc	10	21.12	-1.2
LRG	90.74	319	eP	19	44.30	-1.1				ePP	24	20.00		SGAM	1.09	118	iPc	10	24.22	-0.1
	0.5s	11.00nm			5.5mb		RSSD	99.79	32	ePc	20	27.60	0.5	PME	1.09	304	iPc	10	23.01	-1.3
DMU	90.80	333	eP	19	44.70	-0.8	GLA	101.15	46	e(Pdif	20	34.30	1.3	PMR	1.11	301	iPc	10	23.17	-1.5
	1.3s	210.00nm			6.4mb		BUL	101.36	253	ePdiff	20	34.00	-0.3	MTG	1.13	189	eP	10	24.98	-0.1
DDK	90.93	332	eP	19	45.90	-0.1				ePP	24	35.00					iS	10	42.07	
	0.9s	150.00nm			6.4mb		LHC	102.32	21	ePdiff	20	38.00	0.2	TOA	1.18	23	iPd	10	25.03	-0.9
RXF	90.99	34	iPc	19	47.40	0.8	GOL	102.34	36	ePdiff	20	41.00	2.5X	PMS	1.19	282	iPc	10	24.50	-1.6
DLE	91.08	332	eP	19	46.40	-0.4		Z 18s	16.50um			6.6Msz		MPA	1.21	245	iPc	10	24.58	-1.8
	1.0s	90.00nm			6.1mb		GLD	102.38	36	ePdiff	20	38.80	0.3	BMRM	1.25	92	iPc	10	25.58	-1.5
LDM	91.15	34	iPc	19	48.40	1.1		0.8s	23.50nm			5.9mb		PWA	1.46	297	iPc	10	28.71	-1.1
LHD	91.15	35	iPc	19	48.30	1.0		Z 20s	19.00um			6.6Msz		SEW	1.47	232	iPc	10	27.97	-2.0
LDF	91.23	326	eP	19	47.90	0.4				e	21	02.50		HMT	1.58	115	iPc	10	30.35	-1.3
FLN	91.30	326	eP	19	48.20	0.3	SLR	103.64	248	ePdiff	20	28.20	-16.2X	SKL	1.59	252	iPd	10	30.28	-1.5
DCN	91.35	333	eP	19	47.40	-0.6		Z 20s	93.60um			7.3Msz		MID	1.66	166	ePd	10	31.40	-1.3
	1.3s	210.00nm			6.4mb					i	25	01.90		GLB	1.67	74	iPc	10	32.04	-0.9
CLX	91.40	34	iPc	19	50.00	1.4	ALQ	105.11	40	ePdiff	20	53.10	2.3X	KAIM	1.75	128	iPc	10	32.71	-1.3
TCF	91.44	323	iPc	19	49.40	0.8		1.0s	7.50nm			5.6mb		SUA	1.79	286	iPc	10	33.66	-1.1
	1.4s	225.00nm			6.4mb			Z 20s	12.40um			6.4Msz		NKA	2.02	264	iPc	10	38.20	0.2
DRV	91.56	173	eP	19	49.00	0.6	ALQ	105.11	40	ePKP	25	06.00	0.6	BRNE	2.07	239	iPd	10	36.70	-2.1
WDC	91.71	44	eP	19	50.00	0.0		1.0s	8.75nm					PAX	2.10	21	iP	10	38.80	-0.5
GRR	91.74	326	eP	19	50.70	0.8		Z 20s	18.60um			6.6Msz		WAX	2.19	103	iPc	10	38.89	-1.6
LSF	91.83	323	iPc	19	51.00	0.6	JCT	112.20	39	ePKP	25	18.00	-0.7	BRSE	2.20	234	iPd	10	38.40	-2.2
	1.4s	264.00nm			6.5mb			1.0s	37.50nm					BRLK	2.25	237	iPd	10	39.05	-2.3
FRB	91.92	5	eP	19	50.00	-0.4		Z 18s	25.10um			6.8Msz		NNL	2.28	246	iPd	10	40.10	-1.6

12d 15h

SNH	2.29	110	iPd	10	39.42	-2.5
SKT	2.31	296	iPc	10	40.54	-1.6
BRNW	2.32	241	iPd	10	40.90	-1.5
BALM	2.34	88	iPc	10	41.15	-1.5
CGLM	2.37	279	iPc	10	41.38	-1.7
BRSW	2.39	236	iPd	10	40.91	-2.4
SPU	2.39	276	iPc	10	41.30	-2.0
CRP	2.44	278	iPc	10	42.42	-1.7
SDEM	2.60	234	iPd	10	44.02	-2.4
RDT	2.62	262	iPd	10	44.06	-2.6
HOM	2.62	240	iPc	10	42.96	-3.6
SLV	2.71	237	iPd	10	45.28	-2.5
YAH	2.74	102	iPc	10	46.69	-1.8
RED	2.83	260	eP	10	46.90	-2.7
CTGM	2.83	89	iPc	10	48.34	-1.4
ILM	2.92	256	iPd	10	47.98	-2.8
GYO	2.94	105	iPc	10	49.43	-1.6
CHX	3.13	105	iPc	10	52.45	-1.4
HDA	3.39	1	iP	10	56.30	-1.2
AUM	3.52	245	eP	10	57.47	-1.7
PCA	3.53	102	iPc	10	57.13	-2.4
PDB	3.71	253	iPd	10	58.77	-3.3
BCPM	3.87	103	eP	11	02.05	-2.2
COL	3.90	356	iPc	11	02.80	-1.9
FBA	3.90	356	iPc	11	02.75	-1.9
GLM	3.98	359	iP	11	03.80	-2.0
PNL	4.08	106	eP	11	03.90	-3.4
SVW	4.12	275	iPc	11	04.36	-3.5
KDC	4.28	222	iPd	11	06.82	-3.2
BGM	4.35	251	iPd	11	07.14	-4.0
HQN	4.41	107	ePc	11	08.19	-3.8
TTA	4.60	298	iPc	11	11.26	-3.5
FYU	5.62	8	iP	11	26.60	-2.4
IMA	5.84	333	iPc	11	28.70	-3.5
ABF	6.86	107	iPc	11	43.00	-3.4
SIT	7.28	118	iPc	11	48.35	-4.0
ANM	9.06	301	eP	12	13.60	-3.5
SDN	9.06	237	iPc	12	12.30	-4.7
INK	9.32	33	eP	12	17.00	-3.7
BRW	11.00	344	eP	12	38.30	-5.4
NKI	14.28	245	eP	13	21.00	-6.4
PHC	15.07	124	eP	13	34.00	-3.8
	1.9s	7380.00nm			6.7mb	
ILT	15.09	310	iPc	13	33.50	-4.4
	1.6s	4600.00nm			6.6mb	
RSNT	15.39	70	iPc	13	38.30	-3.6
YKC	15.44	70	ePc	13	38.00	-4.6
	0.7s	47.00nm			4.9mb X	
MBC	17.98	21	eP	14	10.00	-4.4
PGC	18.30	122	ePd	14	18.30	-0.3
	1.2s	462.00nm			5.5mb	
MCW	18.53	121	eP	14	21.50	0.0
ADK	18.56	254	iPc	14	17.70	-4.0
PNT	19.44	115	eP	14	31.60	-0.9
EDM	19.74	98	eP	14	32.20	-3.6
BFW	20.13	125	eP	14	38.80	-1.1
LON	20.48	123	eP	14	41.00	-2.6
SHW	20.76	124	eP	14	46.90	0.3
NEW	21.33	113	iPd	14	51.40	-0.8
YKM	21.53	110	iP-	14	53.70	-0.6
			eS	21	56.00	
COR	21.68	129	iPd	14	55.00	-0.7
RXF	21.79	109	iP	14	56.70	-0.3
			iS	21	52.40	
SMY	22.44	266	eP	14	59.20	-3.9
Z	20s	95.00um			6.2Msz	
			e	15	09.90	
SES	22.65	102	iPc	15	04.20	-1.1
PNO	22.66	120	eP	15	04.80	-0.7
FFC	24.41	85	eP	15	21.00	-1.4
FHC	24.72	134	ePd	15	25.60	0.1
LGBM	24.88	131	ePc	15	27.50	0.2
LRM	25.27	111	ePd	15	29.30	-1.7
WDC	25.43	132	eP	15	32.00	-0.2
RMT	25.96	133	ePc	15	36.30	-0.9
MIN	25.97	131	ePd	15	36.00	-1.5
FCC	26.11	71	ePd	15	35.40	-3.0
	1.3s	1270.00nm			6.4mb	
NWRM	27.19	135	e(P)	15	47.50	-1.0
			e	15	58.30	
IMW	27.44	112	ePd	15	50.00	-1.1
TMI	27.46	114	eP	15	49.30	-2.0
WCN	27.56	130	ePd	15	50.70	-1.4
SEY	27.57	301	eP	15	46.50	-5.2
	8.0s	5000.00nm			6.3mb X	
Z	16s	379.00um			7.1MszX	
N	16s	130.00um				

	E	16s	250.00um		
			isP	16	01.20
			ePP	16	36.20
			ePPP	16	48.20
			eS	20	22.20
BMN	27.58	125	iPc	15	50.80	-1.4
BKS	27.94	135	ePd	15	54.30	-1.0
	0.8s	40.00nm			5.2mb X
	Z	20s	68.00um		6.2Msz
	E	20s	63.00um		
			eS	20	45.20
BEI	28.48	115	eP	16	00.30	0.0
JAS	28.51	132	iPd	15	59.10	-1.4
			i	16	09.00
			iPcP	19	15.10
MHC	28.62	134	ePd	16	00.00	-1.6
			e	16	10.50
ARN	28.65	134	eP	15	58.90	-2.9
EUR	28.89	124	iP	16	02.20	-1.9
	0.5s	116.00nm			5.9mb
MNA	28.94	128	eP	16	02.70	-1.7
BDW	28.94	112	iPd	16	02.50	-2.0
SLD	29.01	134	eP	16	03.50	-1.5
ALE	29.34	16	eP	16	04.80	-2.7
	0.9s	143.00nm			5.8mb
MGD	29.51	296	iPd	16	04.00	-5.2
	1.6s	690.00nm			6.2mb
	Z	18s	137.00um		6.6Msz
	N	18s	44.00um		
	E	18s	61.00um		
			iPP	17	05.00
			iPPP	17	13.00
			iS	20	54.00
DUG	29.60	119	ePd	16	08.20	-2.2
FRI	29.62	132	eP	16	08.50	-1.9
PET	29.76	279	iP	16	06.00	-5.5
	1.9s	250.00nm			5.7mb
	Z	20s	75.00um		6.3Msz
	N	17s	37.60um		
	E	17s	76.70um		
			ePP	17	11.00
			ePPP	17	18.00
			ePcP	19	16.00
			eS	20	58.00
			eSSS	23	00.00
PRI	30.04	134	ePd	16	13.40	-1.0
			e	16	23.40
			ePcP	19	30.00
PHAM	30.41	134	eP	16	16.60	-0.9
RSSD	30.46	104	ePd	16	16.10	-2.0
RSON	30.75	85	eP	16	17.40	-2.9
BKU	30.86	121	eP	16	19.30	-2.3
WKTM	31.15	131	eP	16	22.00	-2.1
VPEM	31.25	130	iPd	16	23.70	-1.3
MSU	31.28	120	iPc	16	23.80	-1.6
MMU	31.92	119	ePd	16	29.30	-1.7
TIK	32.37	324	ePd	16	29.50	-4.8
	Z	14s	180.00um		6.9MszX
	N	17s	43.00um		
	E	15s	150.00um		
			ipP	16	39.40	35kmX
			esP	16	43.00
			ePP	17	44.00
			ePPP	17	54.00
			eS	21	39.00
			eSS	23	39.00
SKR	32.47	278	iPd	16	28.80	-6.6
	1.0s	50.00nm			5.4mb
	Z	18s	54.00um		6.3Msz
	N	18s	54.00um		
	E	18s	61.60um		
			epP	16	41.20	48kmX
			isP	16	42.60
			ePP	17	39.60
			ePPP	17	48.00
			iS	21	38.40
			eSS	23	28.80
SDW	32.71	130	eP	16	35.80	-2.0
PAS	32.72	132	iPd	16	37.00	-0.7
	1.4s	1000.00nm			6.6mb
			epP	16	45.00	28kmX
			ePP	17	55.00
			iS	21	56.00
GOL	33.30	111	ePd-	16	41.00	-2.0
GLD	33.32	110	eP-	16	41.50	-1.6
	1.5s	2030.00nm			6.8mb
	Z	18s	83.70um		6.5Msz

FRB	34.40	51	ePd	16	48.00	-3.9
LHC	34.53	85	eP	16	49.50	-3.7
	1.7s	897.00nm			6.4mb
GDH	36.37	37	iPc	17	06.00	-2.6
	1.1s	228.00nm			5.9mb
			i	27	20.00
ALQ	36.74	116	ePd-	17	10.50	-1.9
	1.0s	205.00nm			5.9mb
	Z	20s	57.60um		6.4Msz
YAK	37.09	309	eP	17	09.40	-5.4
	1.3s	830.00nm			6.4mb
	Z	12s	44.00um		6.5MszX
	N	12s	23.70um		
	E	13s	35.70um		
			iPP	18	38.40
			iPPP	18	51.40
			iPcP	19	33.40
			iS	22	53.40
KHE	37.88	353	iPc	17	19.00	-2.2
	1.5s	1040.00nm			6.4mb
	Z	18s	68.00um		6.5Msz
	N	18s	39.00um		
	E	18s	23.00um		
			ePP	18	42.00
			iPcP	19	35.00
			iS	23	06.00
DAG	38.71	17	iPd	17	24.70	-3.4
	0.4s	212.00nm			6.2mb
			iS	23	17.00
KBS	39.74	6	iP	17	35.50	-1.2
LUB	39.92	112	eP	17	36.50	-2.4
			epP	17	49.00	46kmX
KUR	40.22	277	iPd	17	37.00	-4.0
	1.0s	590.00nm			6.2mb
	Z	18s	29.40um		6.2Msz
	N	18s	45.30um		
	E	18s	21.80um		
			iS	23	42.00
			eSS	26	27.00
OCO	40.33	106	ePd	17	39.80	-2.3
			e	17	50.80
ACM	40.35	88	ePd	17	39.50	-2.6
SCH	40.58	61	iPd	17	29.50	-14.5
	2.7s	8440.00nm			
TUL	40.81	104	iPd-	17	43.50	-2.5
	1.6s	2740.00nm			6.7mb
	Z	20s	235.00um		7.0Msz
			e	17	55.50
RLO	40.97	103	e(P)	17	44.30	-3.0
GBO	41.14	103	iPd	17	45.60	-3.1
YSS	41.39	283	iPd	17	48.00	-2.6
	1.4s	190.00nm			5.6mb
	Z	22s	82.00um		6.6Msz
	N	22s	52.00um		
	E	22s	60.00um		
			epP	17	58.00	34kmX
			isP	18	00.00
			ePP	19	32.00
			iS	23	56.00
AAM	41.68	87	ePd	17	51.20	-1.8
FVM	41.72	97	iPd	17	50.00	-3.4
	1.6s	544.00nm			6.0mb
	Z	18s	48.20um		6.4Msz
			e	18	01.70
			e	19	36.20
IN2	41.96	92	ePd	17	52.60	-2.7
ELF	42.14	84	P	17	55.00	-1.8
UTO	42.20	87	iPd	17	56.50	-0.8
DLA	42.27	85	P	17	56.60	-1.3
LDN	42.32	84	P	17	56.20	-2.1
AN12	42.47	89	ePd	17	56.50	-3.0
BHO	42.49	104	eP	17	58.70	-1.1
			e	18	10.70
AN11	42.50	89	ePd	17	56.40	-3.4
NEM	42.73	277	P	17	56.60	-5.0
POW	42.81	99	eP	17	58.50	-3.9
AN1	42.83	89	ePd	17	59.60	-2.9
ELC	42.85	96	ePd	17	59.40	-3.3
IN3	42.97	92	ePd	18	00.30	-3.3
WAK	43.06	282	P	18	06.00	1.7
OTT	43.19	77	eP	18	02.00	-3.4
	0.8s	95.00nm			5.6mb
OLY	43.20	100	ePd	18	01.30	-4.2
KUSJ	43.33	278	P	18	00.50	-6.0
JCT	43.48	113	iPd	18	05.50	-2.4
	0.8s	560.00nm			6.4mb
	Z	18s	120.00um		6.8Msz

12d 15h

			eS	24	32.00		SOD	51.82	3	iP	19	08.30	-4.3		E	20s	32.00um					
ASAJ	43.56	280	P	18	03.70	-4.7				eP'P'	49	43.00					ePP	22	20.00				
DHN	43.93	82	eP	18	08.50	-2.9	STJ	51.88	59	eP	19	09.50	-3.8				ePPP	24	00.00				
ASA	43.95	280	P	18	08.00	-3.5		1.1s	418.00nm			6.3mb					iS	28	19.00				
NRI	44.05	335	iPc	18	07.50	-4.5	KTJ	52.42	276	P	19	13.40	-4.1	EKA	60.54	23	Pc	20	12.10	-3.2			
	1.6s	140.00nm			5.5mb		LIDJ	52.56	277	P	19	14.50	-4.2		1.5s	564.00nm			6.5mb				
	N 25s	108.00um					SHZ	52.73	276	P	19	25.00	5.2	VAL	62.23	29	iP	20	22.50	-4.2			
	E 25s	49.00um					LIC	53.05	119	eP	19	20.00	-2.8				iS	28	42.00				
			epP	18	14.00	22kmX	TAC	53.40	119	iP	19	36.00	10.7	ETA	62.42	26	iPc	20	24.30	-3.6			
			ePcP	19	58.00		TSRJ	53.44	279	P	19	20.90	-4.2		2.0s	1600.00nm			6.8mb				
			eS	24	35.00		LIM	53.47	119	iP	19	23.00	-2.8	COP	62.52	13	eP-	20	25.00	-3.5			
			eScS	27	56.00		HIK	53.53	278	P	19	28.00	2.3		Z 22s	28.10um			6.4Msz				
MNT	44.10	76	eP	18	09.00	-3.7	IRK	53.56	314	ePd	19	21.00	-4.8				iS	28	52.00				
	1.0s	140.00nm			5.8mb			2.0s	160.00nm			5.7mb		SEM	62.59	328	ePd	20	23.10	-6.0			
PTN	44.15	78	eP	18	10.00	-3.2		Z 16s	134.00um			7.1MszX			2.2s	1330.00nm			6.7mb				
RSNY	44.39	77	eP	18	11.70	-3.4		N 16s	92.60um								ePcP	21	02.70				
HOOJ	44.56	278	P	18	11.70	-4.7		E 16s	41.40um								ePP	22	47.50				
APH	44.93	78	eP	18	16.00	-3.5				epP	19	30.30	31kmX				eS	28	38.60				
URA	44.97	278	P	18	16.00	-3.8				esP	19	35.00					eSP	29	03.50				
SAP	44.98	280	eP	18	15.00	-4.9				ePPP	22	32.00					eScS	30	09.60				
			eS	24	51.00					eS	26	47.50					eSS	32	48.90				
PWLA	45.26	97	iPd	18	19.10	-3.1				eSS	30	32.00		ECP	62.87	26	iPc	20	27.10	-3.8			
CBM	45.60	70	eP	18	26.30	1.5	LIP	53.57	119	eP	19	25.10	-1.5		2.0s	1800.00nm			6.9mb				
BOD	45.66	312	iPd	18	21.00	-4.1	LIT	54.12	118	ePc	19	27.80	-2.7	MOS	63.52	357	iPd	20	32.00	-3.1			
BNH	45.90	75	ePc	18	24.50	-2.7	LII	54.20	120	ePd	19	26.70	-4.3		2.0s	4900.00nm			7.3mb X				
			epP	18	34.70	34kmX	WKYJ	54.70	278	P	19	31.00	-3.4		Z 23s	44.00um			6.6MszX				
RSCP	45.96	95	iPd	18	24.50	-3.3	YONJ	54.93	280	P	19	31.40	-4.7		N 22s	35.00um							
TUP	46.03	306	ePd	18	24.00	-4.0	KJF	55.03	3	iP	19	32.00	-4.4		E 22s	18.00um							
	1.8s	260.00nm			5.9mb			0.7s	176.00nm			6.2mb					ePP	22	52.00				
HAK	46.21	280	P	18	25.00	-4.5		Z 24s	35.00um			6.4MszX					iS	29	05.00				
MIM	46.44	73	eP	18	28.40	-3.0				i	19	42.00		MVI	63.74	276	eP	20	33.00	-4.0			
NAV	46.93	89	ePd	18	32.10	-3.3				eS	27	08.00					e	29	06.00				
MZX	47.03	125	ePc	18	35.70	-0.5				eP'P'	49	39.00		SSE	64.10	288	Pd-	20	35.80	-3.5			
GPD	47.10	80	eP	18	33.50	-3.2	ACX	55.38	121	ePd	19	36.40	-3.1		4.0s	2.16nm			3.7mb X				
BLA	47.19	89	iP-	18	34.00	-3.5	ZAK	55.49	313	iPd	19	35.00	-4.8		E 16s	31.50um							
	1.4s	360.00nm			6.2mb			2.2s	460.00nm			6.1mb					sP	21	09.00				
			ipP	18	45.20	39kmX		Z 16s	72.70um			6.9MszX					PP	22	00.00				
			iS	25	27.20			N 16s	64.00um								S	29	10.00				
MIY	47.30	277	P	18	35.00	-3.2		E 16s	9.78um								sS	29	37.50				
AOMJ	47.36	279	P	18	33.00	-5.7				ePPP	22	49.50					ScS	30	28.00				
PRIN	47.48	81	iPd	18	37.00	-2.7				eSS	30	58.50					SS	33	14.00				
CVL	47.54	86	ePc	18	37.00	-3.1	TKSJ	55.63	279	P	19	37.40	-3.7	OBN	64.11	358	iPd	20	35.00	-4.0			
EMM	47.54	72	eP	18	37.20	-2.9	SHK	55.84	281	iPd	19	37.80	-4.9		1.9s	5900.00nm			7.4mb X				
MRK	47.65	278	P	18	38.00	-3.0	VHO	56.38	118	iP	19	46.00	-0.9				ePP	22	55.00				
NA12	47.82	86	ePc	18	39.40	-2.9	SUF	56.47	4	iP	19	42.30	-4.5				ePPP	24	34.00				
OFU	47.88	277	P	18	39.00	-3.8		0.7s	244.00nm			6.3mb					iS	29	06.00				
OFUJ	47.89	277	P	18	38.80	-4.1	SHNJ	56.92	282	P	19	46.10	-4.3				iSP	29	30.00				
AKU	48.08	26	iP	18	41.70	-2.3	BER	57.07	16	iPd	19	47.40	-3.7	HAM	64.40	15	iPd	20	38.00	-2.9			
	1.1s	324.00nm			6.3mb		NB2	57.13	12	P	19	46.90	-4.7				eS	29	16.00				
HJH	48.40	278	P	18	42.70	-4.2	NVS	57.73	328	iPd	19	50.70	-5.0	WIT	64.60	17	ePd	20	40.00	-2.2			
REY	48.57	29	iP	18	46.20	-1.5		2.4s	440.00nm			6.1mb					e	20	48.00				
ISN	48.58	276	P	18	44.00	-4.2	KONO	58.31	14	ePd	19	56.00	-3.8	DBN	65.07	18	iP-	20	42.00	-3.3			
PRM	48.75	93	iPd	18	46.60	-3.0	KUMJ	58.36	281	P	19	56.00	-4.5		Z 19s	18.50um			6.3Msz				
JSC	49.13	92	iPd	18	49.10	-3.4	ELT	58.41	325	iPd	19	59.80	-0.8				ipP	20	51.00	29kmX			
YAM	49.17	277	P	18	49.00	-3.8		6.4s	2700.00nm			6.5mb X					iPcP	21	23.00				
TRO	49.25	6	iP+	18	49.00	-4.0	NUR	58.63	5	iP	19	57.50	-4.5				ePP	23	16.00				
YAMJ	49.39	277	P	18	51.00	-3.5		0.9s	117.00nm			6.0mb					iS	29	27.00				
VLA	49.39	288	iPc	18	50.00	-4.4		Z 25s	26.00um			6.3MszX					e	33	32.00				
	Z 17s	117.00um			6.9MszX					i	20	07.90		WTS	65.42	17	iPd	20	44.40	-3.1			
	N 17s	119.00um								ePPP	23	40.00			1.5s	611.00nm			6.5mb				
	E 17s	91.30um								eS	27	56.00					e	20	54.00				
			ePP	20	51.00					eP'P'	49	31.00		BRN	65.82	13	ePd	20	46.50	-3.5			
			iS	25	49.00		NGS	58.66	282	P	20	06.00	3.5				eS	29	31.00				
			iSP	25	55.00		UPP	58.87	9	iP	19	59.00	-4.7	UCC	66.20	19	Pc-	20	49.00	-3.5			
			iScS	28	39.00					i	20	08.60					S	29	39.00				
KEV	49.44	3	iP	18	50.70	-3.7				iS	27	59.00		ENN	66.48	18	ePd	20	51.00	-3.3			
	0.7s	69.40nm			5.8mb					eP'P'	49	24.00			1.4s	625.00nm			6.6mb				
	Z 24s	47.10um			6.4MszX		BJI	58.92	297	eP	19	59.50	-4.8				e	21	00.00				
			i	18	59.90					pP	20	09.00	31kmX	WAR	66.69	8	eP	20	50.00	-5.6			
			eS	25	56.00					sP	20	14.00			Z 22s	15.00um			6.2Msz				
OSB	49.92	92	eP	18	56.20	-2.4				eS	27	59.00					eS	29	43.00				
SHR	50.13	276	P	18	57.00	-3.2				sS	28	16.00		CLL	66.89	13	iPd	20	52.80	-4.1			
AIK	50.37	279	P	18	57.80	-4.2				ScS	29	40.00			2.0s	1300.00nm			6.7mb				
NIIJ	50.62	277	P	18	59.40	-4.5	KAGJ	59.44	280	P	20	02.80	-5.2				eS	29	44.00				
KAKJ	50.88	276	P	19	01.70	-4.2	PUL	59.52	1	ePd	20	04.00	-4.2				P'P'	49	18.90				
KIR	51.11	6	iP	19	03.40	-3.9		1.5s	2300.00nm			7.1mb		DOU	66.92	19	P-	20	54.90	-2.3			
MAT	51.56	278	iPd	19	06.60	-4.5				ePP	22	21.00					e	21	01.90				
	1.6s	400.00nm			6.1mb					ePPP	23	40.00					PP	23	31.00				
	Z 20s	13.50um			6.0Msz					iS	28	09.00					S	29	45.00				
			eS	26	26.00					iSP	28	22.00		FLN	67.31	23	eP	20	56.00	-3.6			
CHJJ	51.58	276	P	19	07.00	-4.2				eSPP	28	35.00			1.0s	200.00nm			6.2mb				
APA	51.72	360	iPc	19	08.40	-3.4				eScS	29	49.00		MOX	67.38	14	iPd-	20	56.00	-4.1			
	1.6s	1000.00nm			6.5mb					eSS	32	04.00			1.5s	1040.00nm			6.8mb				
			iS	26	26.00		SVE	60.49	343	iPd	20	10.00	-4.9		Z 18s	13.80um			6.2Msz				
			iSPP	26	41.00			2.6s	3900.00nm			7.1mb			N 17s	9.70um							
			eSS	30	06.00			Z 20s	68.00um			6.8Msz			E 19s	9.40um							
MTMJ	51.72	278	P	19	08.10	-4.3		N 20s	44.50um								i	21	05.00				

12d 15h

			ePP	23	30.00		SSF	69.68	21	eP	21	11.10	-3.2				eSSS	39	11.00				
			e	25	36.00		FUR	69.77	15	eP	21	11.80	-3.1	CEY	72.54	13	eP	21	27.40	-4.2			
			eS	29	48.00					eS	30	23.00		VG1	72.65	17	iPc	21	29.50	-2.7			
			eP'P'	49	15.00		SLE	69.79	17	ePd	21	10.80	-4.2	PTO	72.73	32	iPd	21	30.00	-2.7			
TNS	67.38	17	ePd	20	56.60	-3.5	LBF	69.83	21	eP	21	11.80	-3.5				ipP	21	39.50	31kmX			
			ePcP	21	06.40		AVF	69.91	21	eP	21	12.10	-3.6				iS	30	52.00				
			ePP	23	33.00		TLG	69.94	327	ePd	21	11.70	-4.3	LGR	72.93	27	iPd	21	23.00	-10.9			
			eS	29	52.70			2.3s	450.00nm			6.2mb					i(pP)	21	32.50	31kmX			
BRG	67.42	13	iPd	20	56.40	-3.9				iPP	23	52.00					ePP	24	02.00				
Z	18s	10.00um			6.1Msz					ePPP	25	33.00					iS	30	52.00				
N	18s	11.00um								eS	30	12.50		EPF	72.97	24	eP	21	30.40	-3.8			
E	18s	9.00um								eScS	31	06.00		BPA	72.98	86	eP	21	29.00	-5.5			
			eS	29	52.00		SJG	69.98	89	eP	21	12.00	-4.6	ANR	73.58	330	iPd	21	35.00	-2.7			
LDF	67.54	23	eP	20	57.60	-3.5		1.5s	375.00nm			6.3mb			2.0s	770.00nm				6.4mb			
GUMO	67.58	257	eP-	20	56.00	-5.7	Z	20s	55.30um			6.8Msz		Z	14s	37.00um				6.8MszX			
			pP	21	04.80	28kmX	ZUL	70.05	17	ePd	21	12.50	-4.1	N	14s	45.00um							
PJG	67.58	257	e(P)	20	55.20	-6.5	AAA	70.05	327	iPd	21	13.00	-3.7	E	14s	44.00um							
WLF	67.59	18	P-	21	00.00	-1.3				ePPP	25	23.00					iPcP	21	44.60				
			PP	23	39.00					iS	30	21.00					iS	31	00.30				
			S	30	00.00					eSS	34	44.00		FRF	73.61	20	eP	21	34.80	-3.0			
GRR	67.60	24	eP	20	58.10	-3.3	LSF	70.11	23	eP	21	13.50	-3.4	LRG	73.66	20	eP	21	35.40	-2.7			
GUA	67.60	257	eP-	20	55.00	-6.9	SMF	70.14	21	eP	21	13.50	-3.6		0.8s	240.00nm				6.3mb			
	0.8s	143.00nm			6.2mb		TCF	70.19	22	eP	21	14.00	-3.5	TAS	73.77	332	iPd	21	35.00	-3.8			
			eS	29	47.00			1.5s	563.00nm			6.5mb			2.5s	5000.00nm				7.1mb			
KSP	67.69	11	iPd	20	58.00	-4.0	KMR	70.22	13	iP-	21	13.20	-4.4	Z	16s	38.50um				6.8MszX			
			i	21	08.50		VIE	70.27	12	eP-	21	14.40	-3.5	N	14s	37.00um							
			eS	29	57.00		MZF	70.33	22	eP	21	14.90	-3.4	E	14s	36.00um							
LPF	67.90	24	eP	21	00.20	-3.1	UZH	70.36	7	iPd	21	15.00	-3.4				ePP	26	09.00				
GRF	68.27	15	ePd	21	02.00	-3.6		1.7s	500.00nm			6.4mb					eS	30	50.00				
	2.1s	529.00nm			6.3mb		Z	20s	22.00um			6.4Msz		LMR	73.81	20	eP	21	36.20	-2.7			
Z	20s	8.00um			5.9Msz		N	20s	16.00um					PAG	73.94	86	eP	21	35.00	-5.2			
			epP	21	12.20	33kmX	E	20s	11.00um					FIR	74.08	16	iPd	21	38.00	-2.5			
			ePP	23	40.30					ipP	21	26.00	36kmX				iS	31	08.00				
			eS	30	03.30					iPcP	21	30.00		MGG	74.21	86	eP	21	36.00	-5.6			
PRU	68.36	13	iPd	21	02.50	-3.7				iPP	23	55.00		LGN	74.35	97	iP	21	48.00	5.6			
Z	16s	13.20um			6.3MszX					iS	30	28.00		SIM	74.37	359	iP	21	38.00	-4.2			
N	18s	9.30um								iScS	31	16.00					iPcP	21	48.00				
E	19s	10.20um					PRZ	70.40	326	ePc	21	15.00	-4.0				eS	31	12.00				
			i	21	12.50			1.0s	130.00nm			6.0mb					ePS	31	48.00				
			iPP	23	40.00		Z	17s	90.00um			7.1MszX		ANN	74.38	357	iP	21	24.00	-18.2			
			iS	30	02.00		N	17s	110.00um					Z	22s	19.00um				6.3Msz			
			e	31	00.00					eS	30	22.00		N	22s	48.00um							
GWF	68.48	18	iPd	21	03.40	-3.6	BHG	70.41	14	iPd	21	15.60	-3.2	E	20s	24.00um							
KRA	68.78	9	iPd	21	04.90	-3.9				i	21	25.10					ePcP	21	49.00				
	1.9s	1520.00nm			6.8mb		SAX	70.41	17	ePd	21	15.70	-3.4				ePPP	26	17.00				
Z	20s	32.20um			6.6Msz		LLS	70.74	17	ePd	21	18.00	-3.0				iS	31	12.00				
N	28s	28.50um					SRO	70.88	10	iP	21	19.00	-2.6				eSS	36	02.00				
E	28s	17.10um					N	20s	13.30um					BUC1	74.84	5	ePd	21	40.00	-4.9			
			i	21	14.40		E	20s	12.80um					HKC	74.84	288	eP	21	40.00	-5.2			
			i	21	23.30					iS	30	32.00					eS	31	12.00				
			i	21	28.90		RJF	71.01	23	eP	21	18.90	-3.6	LIS	74.87	33	iPc	21	42.50	-2.6			
			i	21	37.90		OGA	71.02	16	eP	21	19.80	-2.9	CVF	74.93	18	eP	21	42.20	-3.3			
			e	23	54.00		FRU	71.06	329	iPd	21	19.00	-3.8	PYA	74.97	352	iPd	21	42.00	-3.7			
			iS	30	09.00			2.5s	4200.00nm			7.1mb			2.0s	440.00nm				6.1mb			
BUH	68.86	17	ePd	21	06.10	-3.3	Z	18s	113.00um			7.2Msz		Z	24s	29.40um				6.5MszX			
ANP	68.94	284	iP-	21	08.00	-2.2	N	18s	80.00um					N	24s	22.40um							
			iS	30	12.00		E	18s	56.00um					E	24s	15.40um							
CDF	68.98	18	eP	21	06.90	-3.2				ePP	23	57.00					iS	31	16.00				
WET	69.01	14	eP	21	06.70	-3.5				ePPP	25	36.00					eScS	31	47.00				
Z	22s	24.00um			6.4Msz					eS	30	25.00					iSS	36	12.00				
			eS	30	13.50					eSS	35	00.00		TOL	75.03	29	iPd	21	43.00	-3.1			
KHC	69.10	13	iPd	21	07.50	-3.3	KBA	71.10	14	iPd	21	18.60	-4.6		1.8s	20.00nm				4.8mb X			
Z	22s	13.80um			6.2Msz					i	21	19.10					(pP)	21	53.00	32kmX			
N	22s	8.10um								i	21	28.50					iPP	24	40.00				
E	21s	5.90um								e	29	07.50					iS	31	20.00				
			i	21	17.60		LFF	71.22	24	eP	21	19.70	-4.0				iPS	32	12.00				
			PP	23	48.10		DIX	71.27	18	ePd	21	21.20	-3.2				iSS	36	40.00				
			S	30	14.00		MMK	71.38	18	ePd	21	21.90	-3.1				iSSS	40	12.00				
ECH	69.15	18	iPd	21	07.60	-3.5	TMA	71.47	17	ePd	21	21.60	-3.8	EBR	75.13	25	eP	21	43.00	-3.6			
HAU	69.23	19	eP	21	08.30	-3.3	CAF	71.48	23	eP	21	22.00	-3.3				ePP	24	34.00				
LVV	69.28	6	iPd	21	08.00	-3.8	LPO	71.55	23	eP	21	22.40	-3.3				eS	31	22.00				
	4.0s	3400.00nm			6.9mb X		SAL	72.19	16	eP	21	26.00	-3.4	MCO	75.28	289	eP	21	53.80	6.0			
Z	22s	24.80um			6.4Msz		LJU	72.25	13	iP	21	24.60	-5.3	TOV	75.37	96	iPc	21	46.50	-2.0			
N	20s	24.90um								i	21	33.90			0.8s	190.00nm				6.2mb			
E	20s	12.70um								eS	30	46.90		GRO	75.45	350	iPd	21	45.00	-3.4			
			epP	21	20.00	41kmX	KIS	72.26	3	iPd	21	25.00	-4.8		2.0s	2200.00nm				6.9mb			
			iS	30	14.00			2.0s	600.00nm			6.3mb		Z	20s	5.00um				5.8Msz			
			eSPP	30	45.00		Z	19s	20.80um			6.4Msz		N	20s	40.00um							
MFF	69.45	24	eP	21	10.00	-2.9	N	20s	19.00um					E	20s	80.00um							
BSF	69.47	18	eP	21	09.80	-3.4	E	20s	5.40um								iS	31	23.00				
BAF	69.50	18	iPd	21	10.00	-3.3				iPP	24	09.00		SOC	75.60	355	iPd	21	45.00	-4.2			
LOR	69.54	21	eP	21	10.20	-3.3				iS	30	48.00			2.0s	1400.00nm				6.7mb			
	1.4s	502.00nm			6.5mb		TRI	72.50	14	iP	21	26.80	-4.5	Z	20s	17.00um				6.3Msz			
SPC	69.67	9	eP	21	11.90	-2.6				i	22	41.10		N	22s	19.00um							
			i	21	21.50					eS	30	48.90		E	20s	13.50um							
			i	21	31.80					eSP	31	24.50					ePP	24	32.00				
			i(PP)	23	50.00					eSS	35	32.00					ePPP	26	27.00				

12d 15h

			eS	31	24.00						iPP	25	04.50			IFR	80.83	31	iP	22	15.50	-2.8
MAK	75.63	349	iP	21	46.80	-2.6					eS	31	51.50			ATH	81.07	7	iPd	22	16.00	-3.2
	4.0s	*******	nm		7.2mb	X	KMI	77.47	299	P-	21	55.00	-5.3						eS	32	24.00	
Z	22s	46.20	um		6.7Msz		E	16s	38.70	um						HNR	81.52	233	eP-	22	17.00	-4.8
N	22s	55.10	um								pP	22	11.00	57	kmX				eS	32	27.00	
E	22s	56.70	um								sP	22	18.00			CIN	81.65	4	iPc	22	19.00	-3.2
		iS		31	23.80						PP	24	53.00			KKN	81.83	315	iPd	22	20.00	-3.7
MNS	75.64	15	iPd	21	45.50	-4.0					PPP	26	43.00			BCK	81.84	2	eP	22	20.00	-3.4
	1.3s	330.00	nm		6.2mb						iS	31	42.00			PKI	81.99	315	iPd	22	20.80	-3.9
UAV	75.74	98	eP	21	48.00	-2.7					SKS	31	59.00				0.5s	30.00	nm			5.6mb
GAR	75.74	331	iPd	21	46.40	-3.9					sS	32	10.00			DMN	82.06	315	iPd	22	21.40	-3.5
	4.2s	2000.00	nm		6.5mb	X					PS	32	26.00			TEN	82.33	42	ePd	22	23.80	-2.1
Z	20s	65.00	um		6.9Msz		BRT	77.65	12	iPc	21	57.50	-3.2						ePP	25	41.80	
		ePcP		21	55.90		VAY	77.66	8	iPd	21	57.50	-3.3						iS	32	57.50	
		ePP		24	44.90		CRT	77.70	29	iPd	22	00.00	-1.2			IR7	82.53	346	eP	22	24.00	-3.1
		ePPP		26	29.90					iS	32	17.00				DAV	82.53	271	eP-	22	22.00	-5.2
		iS		31	24.90		OHR	77.74	9	iP	21	57.40	-3.9						eS	32	36.00	
		ePS		32	04.90					iPcP	22	08.00				KHI	82.85	339	eP	22	26.00	-2.9
		eSS		36	17.90					eS	31	53.60				WWW	83.21	250	e(P)	22	32.00	1.3
SDV	75.74	98	eP	21	47.60	-3.1	SGO	77.76	14	iP	21	58.00	-3.3			NDI	83.61	322	iPd	22	28.00	-4.6
TPT	75.75	180	iP	21	47.00	-3.3	KNT	77.84	8	ePd	21	58.80	-3.0						iS	32	45.00	
	1.2s	490.00	nm		6.4mb		SRS	77.93	7	ePd	21	58.90	-3.4			JAY	83.62	253	ePc	22	29.40	-3.4
		ipP		21	59.70	43kmX	MAL	77.95	30	iP-	22	01.00	-1.4				1.5s	321.00	nm			6.3mb
AQU	75.76	15	eP	21	48.50	-1.8				ipP	22	11.00	32	kmX		LAT	84.42	246	eP	22	33.00	-3.7
PMO	75.77	181	iP	21	47.20	-3.2				i	23	33.00				RKT	84.42	169	iP	22	33.40	-3.1
	1.2s	295.00	nm		6.2mb					iPP	25	06.00					1.3s	345.00	nm			6.4mb
		ipP		21	59.80	43kmX				iS	31	58.00				CHG	84.66	300	iPd	22	34.00	-4.0
SAM	75.86	333	iPd	21	47.40	-3.5	BAK	77.99	347	iPc	22	00.00	-2.6				1.8s	107.00	nm			5.8mb
	2.4s	5400.00	nm		7.2mb			4.0s	2800.00	nm			6.7mb	X					eS	32	56.00	
		eS		31	20.20					eS	31	55.00				QUE	84.96	331	iP-	22	36.00	-3.6
		eSKS		31	42.00		KDE	78.03	1	eP	21	54.30	-8.5						eS	32	00.00	
		ePS		32	04.20		KRV	78.08	350	iP	21	59.00	-4.1			LMG	85.92	244	eP	22	40.00	-4.4
RUV	75.96	180	iP	21	48.10	-3.4				ePcP	22	09.00				PVC	86.20	222	iPd	22	40.20	-5.3
	1.2s	440.00	nm		6.4mb					iS	31	50.00				PMG	86.80	244	eP	22	43.00	-5.5
		ipP		22	00.60	42kmX	LEN	78.16	351	iPd	22	01.00	-2.8			PCT	87.26	296	eP	22	48.30	-2.6
VAH	76.01	180	iP	21	48.50	-3.2		2.0s	600.00	nm			6.3mb				1.0s	20.70	nm			5.3mb
	1.2s	440.00	nm		6.4mb					iPP	25	00.00				JER	87.52	358	ePd	22	49.50	-2.5
		ipP		22	01.10	43kmX				iS	31	53.00				KKM	87.97	279	ePd	22	51.10	-3.3
CAR	76.14	93	iPc	21	49.20	-3.7	QCP	78.19	279	eP	21	56.60	-7.4			SHI	88.24	343	eP	22	52.00	-3.7
	0.9s	40.30	nm		5.5mb		KVT	78.21	358	iP	22	00.60	-3.3			AAI	90.61	264	eP	23	03.00	-3.7
Z	20s	12.10	um		6.2Msz		ISK	78.21	3	eP	22	00.60	-3.2			NOU	91.07	222	iPc	23	14.00	5.5
DSH	76.52	332	iPd	21	50.70	-4.0	ALM	78.29	28	iPc	22	02.70	-1.6						ScS	33	52.50	
	6.4s	6650.00	nm		6.8mb	X		1.5s	2.30	nm			4.0mb	X		HUA	91.86	112	iPd	23	12.70	-0.2
Z	14s	38.00	um		6.9MszX		N	26s	0.30	um						HYB	93.72	317	eP	23	16.00	-5.1
		iS		31	32.00		E	22s	0.50	um						POO	94.17	321	iPd	23	19.40	-3.7
DUI	76.57	14	iPd	21	51.50	-3.2				i	22	11.80				SNG	94.27	293	iP	23	20.00	-3.6
KHO	76.88	329	iPc	21	54.00	-2.9				iPP	25	12.90					2.0s	471.00	nm			6.6mb
	7.0s	2200.00	nm		6.3mb	X				iS	32	12.00							iS	33	54.00	
Z	16s	38.00	um		6.8MszX		PPN	78.31	182	iP	22	01.60	-2.9			CTA	96.69	240	iPd-	23	30.90	-3.5
N	16s	26.50	um							ipP	22	14.40	43	kmX			1.5s	165.00	nm			6.3mb
E	16s	25.50	um				AFR	78.32	183	iP	22	01.50	-3.0						i(PP)	27	15.00	
		ePcP		22	07.00			1.2s	400.00	nm			6.3mb						iS	34	10.00	
		ePPP		26	38.00					ipP	22	14.20	43	kmX					i	34	50.00	
		eSKS		31	49.00		PPT	78.35	182	iP	22	01.70	-3.0						i	41	19.00	
		eSP		32	15.00			1.2s	380.00	nm			6.3mb			MTN	97.16	257	eP	23	32.00	-4.6
BAG	76.90	280	ePd-	21	51.40	-5.8				ipP	22	14.70	44	kmX		GBA	97.64	316	Pc	23	34.80	-4.1
	1.3s	208.00	nm		6.0mb		THE	78.37	8	iPd	22	01.20	-3.5				0.7s	12.40	nm			5.6mb
		eS		31	37.00		PAE	78.44	182	iP	22	02.30	-2.9			ISQ	100.15	246	ePdiff	23	46.00	-4.1
KUL	76.92	331	iPd	21	52.70	-4.1		1.2s	450.00	nm			6.4mb			TRT	101.65	275	iPdiff	23	52.00	-4.9
Z	15s	57.60	um		7.0MszX					ipP	22	15.20	44	kmX		WB2	101.82	250	ePdiff	23	52.80	-4.8
N	13s	31.30	um				HRT	78.47	2	iP	22	02.60	-2.7						e	27	11.70	
E	14s	14.90	um				YLV	78.72	3	iP	22	03.60	-3.1			WRA	101.83	250	Pdiff	23	55.00	-2.6
		ePcP		22	03.30		LIT	78.87	8	iPd	22	03.60	-3.9				0.9s	3.40	nm			5.0mb X
		ePP		24	46.80		EDC	78.90	4	iPd	22	04.50	-3.1			YJA	105.20	108	ePdiff	24	09.60	-3.5
		iS		31	38.30		GPA	79.02	2	eP	22	04.60	-3.7			MNG	105.78	209	PKP	28	23.00	-4.4
		eSKS		31	56.30		KVG	79.11	244	eP	22	04.00	-5.1			WEL	106.58	209	Pdiff	24	18.00	-0.2
SKO	76.93	9	iPd	21	53.30	-3.5	GRS	79.22	349	iPd	22	06.00	-3.6						PP	28	38.00	
	1.8s	1230.00	nm		6.7mb			2.0s	380.00	nm			6.1mb						S	36	24.00	
		iPcP		22	02.80		Z	19s	25.00	um			6.6Msz						SP	37	55.00	
		iS		31	43.00		N	19s	12.00	um									PS	37	58.00	
DIM	77.11	6	eP	21	56.00	-1.7	E	19s	14.00	um									e	38	59.00	
MTA	77.16	351	iPd	21	54.00	-4.0				iPcP	22	13.60				KIC	106.70	39	ePKP	28	25.80	-4.1
Z	22s	25.00	um		6.5Msz					iS	32	03.00				RHP	110.38	211	ePKP	28	31.20	-4.8
N	22s	30.00	um				VAN	79.24	340	iPd	22	06.00	-3.5			MSZ	111.47	213	PKP	28	53.00	15.1
E	22s	5.00	um					6.0s	2500.00	nm			6.4mb	X		TOO	112.42	232	iPKPd	28	34.80	-5.3
		iPcP		22	04.00					ePcP	22	16.00				TACH	112.64	119	iPKP	28	50.20	9.6
		ePP		24	44.00					ePP	25	10.00				CHCH	113.00	119	iPKPc	28	45.50	4.2
		eS		31	40.00					eS	32	06.00				BNG	113.78	16	iPKPd	28	38.50	-4.9
BKR	77.23	352	iPd	21	56.00	-2.6	EZN	79.36	5	iPc	22	05.80	-4.3				0.6s	15.00	nm			
	4.0s	8200.00	nm		7.1mb	X	RAB	79.96	242	iPd-	22	08.80	-4.9			MEK	114.96	260	iPKPc	28	39.80	-5.5
N	22s	23.00	um				MOM	80.14	247	eP	22	10.00	-4.6			KLG	117.07	255	iPKPd	28	44.00	-5.2
		iPcP		22	04.00		PAA	80.46	238	eP	22	13.00	-3.4			BAL	119.17	259	iPKPd	28	48.20	-5.0
		iPP		24	56.00		MHI	80.60	338	iPd-	22	14.70	-2.3			KLB	119.49	258	iPKPd	28	49.00	-4.7
		iPPP		26	40.00					e	22	24.00				NAI	120.32	355	ePKP	28	58.00	1.9
		iS		31	44.00					eSn	32	22.00				MUN	120.55	259	iPKPc	28	50.50	-5.2
		iScS		32	06.00		TAB	80.64	349	iP-	22	14.00	-3.2			NWAO	120.84	257	iPKPd	28	51.70	-4.6
ALI	77.29	26	iP+	21	57.50	-1.3	IZM	80.82	4	iPd	22	13.90	-4.1				0.6s	47.00	nm			

12d 15h

NPA	133.89	351	ePKP	29	18.00	-3.7
			epPKP	32	01.00	
TET	135.18	359	iPKP	29	20.00	-4.1
	1.3s		0.26nm			
			ipPKP	34	04.00	
KRI	135.80	4	ePKP	29	22.00	-3.5
			ipPKP	29	36.00	
			iSKP	32	07.00	
MTD	135.80	2	ePKP	29	22.00	-3.4
			iSKP	32	05.00	
AVY	136.63	339	ePKP	29	20.00	-7.1
DRV	138.07	215	ePKP	29	20.00	-8.1
BUL	139.05	6	iPKPd	29	31.00	-0.5
	Z 22s		12.60um		6.6Msz	
	N 21s		10.80um			
	E 21s		7.17um			
			iSKP	32	19.00	
SBA	141.46	194	iPKP	29	25.90	-8.1
SLR	144.58	7	ePKP	29	34.20	-6.8
	Z 21s		24.40um		7.0Msz	
PRE	144.59	7	iPKPd	29	35.50	-5.6
	2.0s		********nm			
KSR	144.61	9	iPKPd	29	35.50	-5.6
BPI	145.00	8	iPKPd	29	36.60	-5.2
EVA	145.39	6	iPKPd	29	38.10	-4.4
BFS	145.63	10	iPKPd	29	38.90	-3.9
	1.5s		500.00nm			
PRY	145.71	9	iPKPd	29	40.00	-3.0
SWZ	145.78	12	iPKPc	29	39.50	-3.5
JOZ	146.42	1	iPKPd	29	39.70	-4.2
VIR	146.81	10	ePKP	29	41.00	-3.7
SEK	147.11	9	iPKPc	29	41.50	-3.7
HVD	149.18	12	iPKPd	29	44.20	-4.2
	1.6s		210.00nm			
SUR	150.28	21	iPKPc	29	46.70	-3.4
	0.5s		56.30nm			
	Z 21s		40.60um		7.2Msz	
TUH	150.86	24	ePKP	29	48.50	-2.1
SPA	150.86	180	ePKPc	29	43.50	-6.3
	1.0s		465.00nm			
	Z 20s		11.50um		6.7Msz	
CER	150.95	24	ePKP	29	49.00	-1.8
GRM	151.97	11	ePKP	29	44.00	-8.4
	1.4s		560.00nm			
	Z 20s		12.60um		6.7Msz	
MAW	165.54	230	ePKP	30	03.00	-3.8
SYO	171.52	196	ePKP	30	05.00	-5.5
	518 obs. associated					

AUG 06, 1983 15h 43m 52.59± 0.08s
40.130 N ± 1.4km 24.721 E ± 1.0km
DEPTH = 10.0km (geophysicist)
6.2mb (120 obs.) 7.0Msz (16 obs.)
AEGEAN SEA (365)

Slight domage (VI) on Limnos and to four monasteries in the Mount Athos oreo. Also felt (VI) on Thosos and Lesvos. Felt (V) throughout much of northern Greece. Felt strongly in southern Bulgorio and northwestern Turkey.

OUR	0.60	290	iPgd	44	05.80	1.1
PAIG	0.82	256	iPgd	44	08.90	0.4
PLG	1.01	284	ePn	44	12.50	0.8
SOH	1.25	304	iPgc	44	16.60	0.7
SRS	1.31	319	ePg	44	17.90	1.1
THE	1.43	291	iPbd	44	19.30	0.7
			eSb	44	38.40	
PRK	1.49	126	ePKP	44	18.50	-0.8
KDZ	1.58	17	iPc	44	20.00	-0.7
LIT	1.71	270	iPnd	44	22.20	-0.4
KNT	1.73	307	ePnd	44	23.60	0.7
GRG	1.95	296	iPnc	44	26.80	0.7
PLD	1.97	360	iPc	44	26.00	-0.4
DIM	2.02	19	iP	44	26.00	-1.1
VAY	2.02	307	iPn	44	28.30	1.2
PTL	2.18	198	iPnc	44	27.70	-1.8
KZN	2.27	275	iPn	44	31.00	0.3
ATH	2.29	200	iPn	44	30.00	-1.0
			iSn	44	56.50	
EDC	2.42	84	iPn	44	31.40	-1.4
IZM	2.62	130	iPn	44	34.50	-1.3
VTS	2.72	336	iPc	44	38.00	0.9
DMK	2.85	53	iPn	44	36.90	-2.1
JAN	3.01	262	iPnc	44	40.70	-0.6
PVL	3.03	6	iPc	44	42.00	0.5
DST	3.05	99	iPn	44	40.00	-1.8
SKO	3.09	308	iPnd	44	43.00	0.7
			iPg	44	56.00	
			iSn	45	26.30	
APE	3.12	168	ePn	44	40.70	-2.1
OHR	3.14	289	iPnd	44	43.80	0.7
RLS	3.27	232	iPnc	44	44.50	-0.4
IST	3.38	73	iPd	44	44.00	-2.5
ISK	3.43	73	iPn	44	44.90	-2.3
YLV	3.58	82	iPnd	44	47.60	-1.8
CIN	3.64	133	eP	44	48.50	-1.7
ITM	3.67	217	ePn	44	49.50	-1.1
VLS	3.76	240	iPn	44	53.50	1.6
HRT	3.84	78	iPn	44	51.40	-1.6
YER	4.09	136	iPn	44	55.20	-1.3
CGN	4.14	13	iPd	44	56.50	-0.7
GPA	4.28	86	iPn	44	57.40	-1.9
ALT	4.30	103	iPn	44	58.20	-1.4
BUC1	4.32	13	iPd	45	02.30	2.5
PSN	4.39	35	iPd	44	59.00	-1.7
DRA	4.56	356	iPd	45	03.00	-0.1
SRE	4.67	347	iPc	45	05.00	0.3
VAM	4.73	185	ePn	45	03.10	-2.6
ARG	4.74	144	ePn	45	04.60	-1.2
CVD	4.87	29	iP	46	05.00	57.5X
NPS	4.91	171	iPnd	45	05.80	-2.4
CLO	5.14	345	eP	45	10.00	-1.4
CMP	5.14	3	iPc	45	10.00	-1.4
LCI	5.18	274	iPnd	45	10.00	-2.0
COZ	5.20	357	iPc	45	07.00	-5.3X
SSR	5.22	336	iP	45	12.00	-0.5
ELL	5.29	128	iPn	45	13.80	0.1
BCK	5.30	118	iPn	45	12.60	-1.2
MLR	5.43	9	iPc	45	15.20	-0.5
BRT	5.78	280	ePn	45	20.00	-0.4
DEV	5.90	348	iPc	45	22.00	-0.1
ORI	6.34	272	iPnd	45	28.80	0.4
BIR	6.49	18	iP	45	03.00	-27.4X
BAC	6.63	13	iPd	45	31.50	-0.9
CJR	6.63	353	iPc	45	32.10	-0.4
KAS	6.98	77	iPnd	45	34.50	-2.9
			i	45	38.00	
			i	45	44.50	
SGO	7.20	276	iPnd	45	39.50	-1.0
BLY	7.24	312	Pn	45	42.70	1.8
			Sn	47	15.20	
KIS	7.51	22	iPc	45	44.00	-0.7
			iS	47	02.00	
CEI	7.73	349	eP	45	50.00	2.3
DUI	7.92	284	iPnc	45	49.00	-1.5
MEI	8.06	252	iPnd	45	48.00	-4.5X
BUD	8.42	333	ePnc	45	55.00	-2.5
SIM	8.44	52	iPc	45	56.00	-1.8
	9.0s		*******nm		7.4mb X	
	Z 24s		320.00um		6.7Msz	
	N 24s		620.00um			
	E 24s		520.00um			
			eS	47	27.00	
PSZ	8.53	338	ePnc	45	57.00	-2.0
GIB	8.60	259	iPnd	45	57.00	-3.1X
KVT	8.67	80	iP	45	59.00	-2.0
AQU	8.81	288	iPnd	46	01.20	-1.8
JOS	8.88	342	iPnc	46	02.10	-1.7
SRO	8.96	331	iP	46	03.40	-1.5
			iS	46	49.80	
HRB	9.05	331	eP	46	08.30	2.1
	E 10s		1800.00um			
			e	46	28.70	
			e	47	22.30	
			e	47	47.10	
			e	48	00.00	
POI	9.19	289	ePn	46	11.20	3.1X
RMP	9.25	284	ePn	46	07.50	-1.4
MNS	9.35	288	ePn	46	08.50	-1.8
CEY	9.40	310	ePd	46	11.00	-0.1
LJU	9.51	312	ePd	46	12.50	0.0
			i	46	16.20	
			eS	48	00.00	
SPC	9.60	342	eP	46	13.00	-0.9
ERC	9.66	261	iPnd	46	12.50	-2.1
LVV	9.70	357	iPc	46	15.50	0.4
			eS	48	03.00	
ZST	9.74	328	iP	46	15.20	-0.5
TRI	9.78	308	ePn	46	16.00	-0.2
VIE	10.09	326	iP-	46	20.70	0.3
			i	48	22.20	
			i	49	01.60	
			i	49	10.00	
			i	49	25.10	
VKA	10.12	326	eP	46	19.00	-1.9
			i	46	52.00	
			i	47	10.70	
			i	49	46.00	
ANN	10.43	59	iPc	46	21.00	-4.2X
			iS	48	25.00	
KRA	10.48	343	ePc	46	25.10	-0.7
	2.2s	6210	.00nm		7.6mb X	
			i	46	30.30	
			i	46	34.40	
			iS	48	26.00	
			i	49	45.80	
FIR	10.67	294	iPnd	46	28.00	-0.5
			i	47	43.00	
			iSn	48	12.00	
KBA	10.78	314	ePd	46	29.50	-0.6
			i	46	35.80	
KMR	10.98	320	eP+	46	16.50	-16.2X
HRI	11.18	124	eP	46	32.00	-3.6X
MGI	11.55	128	eP	46	37.40	-3.1X
HLW	11.59	150	iP+	46	38.00	-3.1X
			eS	56	18.00	
SOC	11.70	68	iPc	46	38.00	-4.6X
	1.8s	1500	.00nm		7.0mb	
			iS	48	42.00	
JER	11.89	131	ePc	46	43.50	-1.7
KHC	11.99	322	iPc	46	45.60	-0.8
			i	46	54.50	
			e	47	07.50	
OGA	12.00	309	iPd	46	45.90	-0.9
CVF	12.16	287	ePd	46	47.90	-0.9
PRU	12.19	327	eP	46	48.50	-0.6
			e	46	55.50	
			i	47	11.00	
			i	47	36.50	
			S	48	55.00	
KSP	12.23	334	ePc	46	49.50	0.0
	1.4s	1700	.00nm		7.1mb	
			i	46	51.20	
			i	49	59.00	
GAP	12.29	311	eP	46	49.50	-1.0
WET	12.33	321	eP	46	50.40	-0.6
WAR	12.38	349	eP+	47	02.00	10.4X
			e	47	15.00	
			e	47	32.00	
			e	49	23.00	
			e	49	47.00	
VG1	12.48	298	ePn	46	51.00	-2.0
FUR	12.55	314	eP	46	53.00	-0.9
VDL	12.79	305	ePd	46	55.50	-1.8
TMA	13.02	303	ePd	46	57.00	-3.4X
BRG	13.12	329	eP	47	02.00	0.6
			i	47	16.00	
			iS	49	24.00	
SAX	13.20	308	ePd	47	01.30	-1.5
LLS	13.24	306	ePd	47	02.00	-1.4
GRF	13.50	320	iPc	47	05.30	-1.3
	2.0s	1600	.00nm		6.7mb	
	Z 15s	2760	.00um		6.6Msz	
			e	47	18.80	
			eS	49	40.00	
MMK	13.59	301	ePd	47	05.00	-3.0X
HOF	13.60	323	eP	47	06.90	-1.0
CLL	13.83	328	iPc	47	09.70	-1.2
	2.1s	305	.00nm		5.8mb	
			i	47	27.90	
			eS	49	52.00	
ZUL	13.88	307	ePd	47	09.50	-2.1
FRF	13.90	290	eP	47	11.90	0.0
	1.8s	1720	.00nm		6.6mb	
SLE	13.94	309	ePd	47	10.00	-2.4
MOX	13.95	323	eP+	47	12.00	-0.5
			iS	49	45.00	
DIX	13.96	301	ePd	47	11.00	-2.0
LMR	13.97	289	eP	47	13.40	0.6
	1.6s	1120	.00nm		6.4mb	
STU	14.04	313	ePd-	47	12.00	-1.6
	1.5s	833	.00nm		6.3mb	
LRG	14.09	290	eP	47	14.90	0.5
	1.6s	2350	.00nm		6.7mb	
PYA	14.16	68	iPd	47	15.00	-0.3
	1.8s	950	.00nm		6.2mb	
			iS	49	55.00	
BKR	14.30	77	iPd	47	17.60	0.3

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		1.3s	330.00nm			5.9mb		UCC		17.77	314	Pc-	48	02.80	1.4		DDK		24.84	313	eP	49	18.20	2.1
	N	16s	156.00um					RJF		17.79	295	iPd	48	02.50	0.7				0.8s		24.00nm			4.9mb X
	E	16s	370.00um							2.6s	6340	00nm			6.3mb		EAB		24.91	320	iPc	49	17.20	0.4
BUH		14.54	311	eP	47	18.80	-1.4	MOS		17.80	24	iP	47	59.00	-2.8				1.3s	2110	00nm			6.7mb
LEN		14.58	81	iPd	47	23.00	2.0			3.0s	*******	nm			6.9mb		DLE		24.92	312	iPc	49	18.90	2.0
BRN		14.62	331	iPc	47	21.00	-0.1		Z	16s	228	00um							0.8s		32.00nm			5.1mb X
				eS	50	10.00						iS	51	12.00			STS		24.98	287	ePnc	49	17.00	-0.6
BAF		14.88	307	iPd	47	23.60	-1.2	LPO		17.94	292	iPd	48	04.30	0.6				0.3s		35.00nm			5.5mb
ECH		14.95	309	iPd	47	24.00	-1.6			1.8s	1720	00nm			5.9mb						Sn	55	00.00	
MSL		14.95	99	iPc	47	28.00	2.4	LSF		17.95	298	iPd	48	04.30	0.5		SHI		25.00	106	eP	49	18.00	-0.1
				iPP	47	42.50				1.3s	1110	00nm			5.8mb		PTO		25.23	283	iP	49	20.50	0.6
				iS	50	31.60		DBN		18.01	318	iP+	48	07.00	2.6						iS	53	31.00	
				ePcP	52	12.00						iS	51	27.00			DCN		25.36	312	iPc	49	23.00	2.0
				eLQ	53	09.50		SHE		18.22	81	iPc	48	10.00	2.9X				1.1s		74.00nm			5.3mb
				e	53	39.00		LFF		18.29	293	iPd	48	08.70	0.7		ASH		26.13	84	iPc	49	29.30	0.9
CDF		14.97	309	ePd	47	24.30	-1.6			2.0s	3250	00nm			6.1mb				1.5s		760.00nm			6.2mb
		1.5s	1650	00nm			6.3mb	EPF		18.45	287	iPd	48	08.50	-1.5			N	12s		32.60um			
BSF		15.01	307	ePd	47	25.10	-1.3			1.8s	1260	00nm			5.8mb						ipP	49	38.00	31kmX
		0.9s	422	00nm			5.9mb	KER		18.71	101	eP	48	14.00	0.7						ePP	50	12.00	
GWF		15.03	312	iPd	47	26.40	-0.3	MFF		19.16	298	iPd	48	18.70	0.2						ePcP	52	52.00	
ERE		15.13	83	iPd	47	28.50	0.5			1.3s	1580	00nm			6.1mb						iSS	55	08.00	
				eS	50	17.00		BAK		19.21	81	iPc	48	20.00	0.9						eSSS	55	25.00	
TNS		15.25	317	ePc	47	29.40	-0.1			4.0s	*******	nm			7.2mb X		VAL		26.73	308	iP	49	34.00	0.3
				iS	50	35.00						iS	51	45.00							iS	54	08.00	
				e	52	26.00		MUD		19.26	333	iPc	48	19.00	-0.7		SOD		27.31	2	iP	49	38.40	-0.6
MTA		15.26	78	iPd	47	29.40	-0.3			1.0s	780	00nm			5.9mb		ARU		27.44	42	iPc	49	39.30	-0.9
				iS	50	22.20		ALI		19.59	273	iP	48	23.50	-0.2				3.0s	1800	00nm			6.3mb
HAU		15.35	307	ePd	47	29.60	-1.2					eS	52	03.00				Z	14s		106.00um			6.6MszX
		1.0s	606	00nm			5.9mb	LDF		19.61	304	iPd	48	23.00	-0.9			N	10s		113.00um			
GRO		15.97	72	iPd	47	40.00	1.2			1.9s	4510	00nm			6.4mb			E	12s		169.00um			
		1.5s	4500	00nm			6.4mb	FLN		19.88	304	iPd	48	26.00	-0.8						epP	49	45.70	22kmX
	Z	12s	133	00um			6.5MszX			2.0s	4420	00nm			6.4mb						esP	49	55.70	
	N	12s	670	00um				PUL		19.97	8	iPc	48	25.00	-2.6						ePP	50	24.70	
	E	12s	230	00um						8.0s	*******	nm			7.0mb X						ePPP	50	39.70	
WLF		16.21	312	P-	47	46.00	4.2X		N	14s	500	00um									ePcP	52	56.70	
				S	50	39.00			E	14s	160	00um									eS	54	18.70	
BNS		16.34	317	iPc	47	45.30	1.9					iS	52	04.00							eSSS	55	44.00	
				eS	51	02.20		GRR		20.02	303	iPd	48	27.50	-0.8		MHI		27.48	87	iPd-	49	41.10	0.2
KRV		16.47	81	iPd	47	47.00	1.7	LPF		20.06	302	iPd	48	27.60	-1.0				1.5s	2060	00nm			6.6mb
SMF		16.49	300	iPd	47	44.50	-1.0	UPP		20.25	350	iPc	48	28.00	-2.5						eS	54	26.00	
		1.7s	2350	00nm			6.0mb			1.5s	800	00nm			5.8mb		KHI		27.58	92	ePd	49	41.80	-0.2
LBF		16.50	301	iPd	47	45.40	-0.2	NUR		20.40	360	iP+	48	30.00	-2.1		APA		27.88	7	iPc	49	43.80	-0.3
		1.7s	1630	00nm			5.9mb			1.5s	994	00nm			5.9mb				1.5s	1700	00nm			6.6mb
GRS		16.62	85	iPd	47	48.20	0.9					eS	52	00.00				Z	10s	340	00um			7.2MszX
		2.0s	270	00nm			5.0mb X	IR7		20.87	94	ePd	48	36.80	-0.5						eS	54	25.00	
				eS	50	51.00		TEH		21.45	93	eP	48	52.00	8.8X		SVE		28.64	42	iPc	49	50.00	-1.0
LOR		16.66	302	iPd	47	47.40	-0.2	ALM		21.49	270	iPgd	48	41.90	-1.6				2.2s	640	00nm			6.0mb
		1.4s	980	00nm			5.7mb			1.8s	16	10nm			4.1mb X			Z	10s	210	00um			7.0MszX
HAM		16.70	328	iPc	47	48.50	0.5		N	14s	28	00um						N	10s	316	00um			
SSF		16.83	301	iPd	47	49.30	-0.4		E	11s	49	60um						E	10s	103	00um			
		2.0s	1930	00nm			5.9mb					iPP	49	10.30							eS	54	40.00	
AVF		16.86	300	ePd	47	49.30	-0.7					iPPP	49	24.90			KEV		29.71	2	iP	50	02.10	1.6
		2.0s	3930	00nm			6.2mb					iS	52	47.00					0.6s	288	00nm			6.3mb
ENN		16.89	315	eP	47	53.50	3.0X	CRT		22.27	272	iPd	48	51.20	-0.1						eS	54	54.00	
		1.8s	1300	00nm			5.8mb	SUF		22.64	2	iP	48	53.80	-0.8		SAM		32.21	77	iPd	50	23.10	0.2
				e	47	56.50				0.4s	38	80nm			5.3mb				7.4s	5700	00nm			6.6mb X
				i	47	59.20		MAL		23.03	271	iPd	48	47.50	-11.2X						ePP	51	34.80	
				eS	51	11.00				1.5s	3	00nm									iPcP	53	14.20	
TAB		16.90	90	iP-	47	52.00	1.2					i	49	00.00							iS	55	37.00	
OBN		17.00	24	iPc	47	46.80	-4.9X					iS	53	09.00							iSS	57	28.60	
		2.0s	9200	00nm			6.6mb	EKA		23.92	319	Pc	49	07.10	-0.1		TDD		32.47	145	eP	50	29.20	3.9X
				iS	50	45.00				0.7s	90	30nm			5.5mb		OBO		32.47	145	eP	50	29.60	4.3X
WTS		17.13	320	eP	47	56.00	2.6	ESY		23.93	320	ePc	49	07.90	0.6		DAF		32.48	146	eP	50	28.20	2.8
		1.7s	2080	00nm			6.0mb			1.4s	1520	00nm			6.4mb		SGH		32.68	146	eP	50	29.00	1.8
				i	47	58.90		EBL		24.07	320	iPc	49	09.40	0.7		ARO		32.69	146	eP+	50	29.00	1.7
				eS	51	17.00				1.4s	1810	00nm			6.5mb		ATA		32.91	145	eP	50	33.00	3.9X
BHD		17.17	107	ePd	47	56.00	1.9	KJF		24.17	3	iPc	49	09.80	0.3		AAE		33.41	154	eP	50	34.60	0.8
				iPP	48	14.00				1.9s	892	00nm			6.0mb		TAS		33.52	73	ePd	50	34.00	-0.3
				ePPP	48	31.00						eS	53	24 00					1.5s	800	00nm			6.4mb
				eS	51	39.00		EDI		24.22	320	iPc	49	11.00	1.0			Z	24s	104	00um			6.5MszX
				e	53	35.00						eS	53	36.60							ePP	51	43.00	
				eLQ	55	16.50		EAU		24.31	320	iPc	49	11.80	0.8						ePPP	52	10.00	
MAK		17.23	73	iPd	47	57.40	2.7			1.4s	2020	00nm			6.6mb						iS	55	58.00	
		1.5s	500	00nm			5.4mb	EDU		24.44	321	iPc	49	13.10	0.9						iSS	57	54.00	
				iS	51	13.20				1.4s	3690	00nm			6.8mb		DSH		33.85	78	iPd	50	37.60	0.4
MZF		17.23	298	ePd	47	54.00	-0.8	ECP		24.48	310	iPc	49	12.80	0.2				9.0s	9600	00nm			6.7mb X
DOU		17.30	312	Pc-	47	58.50	2.9X			1.8s	230	00nm			5.5mb						iPP	51	58.00	
				e	48	03.60		SFS		24.48	271	iPd	49	12.00	-0.8						eSSS	58	32.00	
				S	51	02.00						iPP	50	40.00			KUL		34.78	79	iPd	50	45.70	0.5
				PcP	52	52.40						iS	53	20.00					5.3s	3400	00nm			6.5mb X
CAF		17.36	293	iPd	47	56.50	0.1					iSS	54	50.00							iPPP	52	27.80	
TCF		17.50	298	iPd	47	58.10	-0.1	EBH		24.53	321	iPc	49	14.10	1.0						iS	56	21.70	
		2.5s	6250	00nm			6.3mb			1.4s	4900	00nm			7.0mb		AKU		35.20	331	eP	50	46.20	-2.2
COP		17.56	336	iPc+	47	57.30	-1.5	ETA		24.54	311	iPc	49	13.80	0.6				2.1s	1890	00nm			6.6mb
		1.1s	1270	00nm			6.0mb			1.0s	110	00nm			5.5mb						i	50	50.60	
				iS	51	09.00		ELO		24.74	321	ePc	49	15.80	0.6		QUE		35.63	93	eP	50	51.80	-1.0
WIT		17.70	322	eP	48	04.50	4.0X			1.3s	2060	00nm			6.6mb		ANR		35.91	73	iPd	50	56.80	2.0

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	2.0s	2600.00nm				6.8mb
Z	14s	58.00um				6.5MszX
N	14s	95.00um				
E	14s	51.00um				
			ePP	52 24.20		
REY	36.11	327	iP	50 56.10	0.0	
			i	51 00.70		
KHO	36.25	79	eP	51 00.00	2.1	
Z	15s	30.00um				6.2MszX
N	15s	40.00um				
E	15s	16.00um				
			ePP	52 28.00		
FRU	37.04	69	iPd	51 05.80	1.5	
	1.8s	1980.00nm				6.6mb
E	28s	208.00um				
			iPP	52 33.00		
			eSS	59 16.00		
NRN	38.39	71	iPd	51 17.60	1.6	
			eS	57 09.00		
AAA	38.60	68	eP	51 19.50	2.1	
	8.0s	11.50nm				3.6mb X
			iPP	52 47.10		
			iS	57 17.90		
			eSS	59 55.90		
			eSSS	00 29.80		
TLG	38.91	68	iPd	51 20.30	0.3	
	1.8s	830.00nm				6.1mb
			ePP	52 54.00		
			iS	57 21.00		
KSH	38.94	74	Pd	51 21.00	0.6	
			eS	57 25.00		
SEM	39.55	56	iPc	51 26.70	1.5	
	2.0s	1530.00nm				6.3mb
			esP	51 43.20		
			iPP	53 05.60		
			eS	57 30.10		
DAG	41.16	346	iPc	51 37.70	-0.4	
	1.4s	32.60nm				4.9mb X
			i	51 51.00		
			i	57 29.00		
KHE	42.40	8	iPc	51 50.00	1.8	
	2.0s	1900.00nm				6.5mb
			iPP	53 22.00		
			iS	58 12.00		
NAI	42.66	162	iPc	51 53.00	1.7	
	2.0s	529.00nm				5.9mb
KIC	42.76	226	iP	51 52.00	0.1	
ELT	42.89	51	iPd	51 51.60	-0.9	
	2.0s	1880.00nm				6.5mb
			eS	58 16.00		
NRI	43.78	27	iPc	52 01.00	1.5	
	1.5s	320.00nm				5.9mb
			ePP	53 41.00		
			iPcP	53 52.00		
			eSS	01 37.00		
NDI	44.22	88	iPd	52 03.20	-0.4	
	0.7s	103.00nm				5.8mb
Z	20s	37.60um				6.3Msz
E	22s	27.40um				
			iPP	53 38.00		
			iS	58 34.50		
			iSS	01 43.00		
POO	47.25	102	iPd	52 27.80	0.0	
	1.3s	423.00nm				6.4mb
ALE	50.10	350	eP	52 42.10	-7.0X	
	0.9s	130.00nm				5.9mb
DMN	50.79	85	iPd	52 54.80	-0 6	
KKN	50.83	84	iPd	52 54.80	-0.8	
	1.2s	1140.00nm				6.7mb
PKI	51.04	85	iPd	52 56.40	-1.0	
	1.2s	810.00nm				6.5mb
HYB	51.47	100	ePd	52 58.00	-2.3	
	1.0s	280.00nm				6.1mb
			eS	00 16.00		
MOY	51.99	50	ePc	53 05.00	1.2	
	1.7s	210.00nm				5.8mb
GBA	53.01	104	P	53 11.00	-0.9	
	1.8s	393.00nm				6.0mb
IRK	53.73	49	iPc	53 16.00	-0.8	
	1.8s	420.00nm				6.1mb
Z	20s	97.70um				6.9Msz
N	16s	55.60um				
E	22s	51.70um				
			esP	53 32.00		
			ePPP	56 30.00		
			eS	00 50.00		
ZAK	53.81	51	iPc	53 18.00	0.7	

	1.7s	560.00nm				6.3mb
Z	15s	58.20um				6.8MszX
N	12s	44.60um				
E	13s	82.30um				
			ePcP	54 18.00		
			ePPP	56 28.00		
			eS	00 55.00		
			eSS	04 28.00		
STJ	54.18	305	eP	53 20.00	-0.1	
	1.0s	551.00nm				6.5mb
LSA	54.32	79	iPd	53 21.00	-1.0	
			iS	00 59.00		
KOD	55.24	108	eP	53 30.00	1.4	
GTA	56.03	65	Pc	53 33.20	-0.7	
			S	01 22.00		
FRB	56.25	328	eP	53 35.00	0.1	
NPA	56.57	163	iPc	53 37.00	-0.7	
	1.0s	390.00nm				6.4mb
			e	56 31.00		
			eS	01 32.00		
TET	56.59	170	eP	53 39.00	1.2	
	4.0s	7.69nm				4.1mb X
			e	20 08.00		
TIK	56.67	22	eP	53 37.50	-0.4	
	1.5s	1040.00nm				6.6mb
Z	16s	149.00um				7.2MszX
N	17s	92.00um				
E	16s	135.00um				
			esP	53 50.00		
			ePcP	54 29.00		
			ePP	55 49.00		
			eS	01 32.00		
			ePS	01 40.00		
			eScS	03 16.00		
			eSS	05 19.00		
KRI	56.85	174	iPc	53 38.00	-1.8	
			ipP	53 46.00	26kmX	
BOD	56.88	40	eP	53 39.70	0.1	
	1.0s	190.00nm				6.1mb
MTD	56.97	172	eP	53 41.00	0.3	
			ipP	53 53.00	42kmX	
SHL	57.02	83	iP	53 39.00	-2.3	
			iS	01 32.50		
SCH	59.21	318	eP	53 55.60	-0.4	
	1.3s	633.00nm				6.6mb
BUL	60.07	176	iPc	54 01.00	-1.2	
	1.2s	334.00nm				6.3mb
Z	20s	118.00um				7.0Msz
N	20s	136.00um				
E	20s	152.00um				
			ipP	54 15.00	51kmX	
			iS	02 26.00		
LZH	60.42	66	P	54 04.50	-0.2	
	8.5s	157.00nm				5.2mb X
N	15s	73.90um				
E	10s	63.70um				
			pP	54 10.50	20kmX	
			PP	55 50.00		
			S	00 30.00		
			SS	03 50.00		
TUP	61.28	42	iP	54 11.80	1.8	
	1.3s	240.00nm				6.2mb
MBC	61.66	351	ePc	54 12.50	0.1	
YAK	61.80	31	iPc	54 11.50	-2.0	
	1.4s	490.00nm				6.5mb
Z	17s	90.00um				7.0MszX
N	13s	97.20um				
E	11s	33.70um				
			iPP	56 32.30		
			iPPP	57 56.30		
			eS	02 35.30		
			iPS	02 52.30		
			iSS	06 32.90		
			iSSS	09 19.50		
BTO	62.35	59	Pc	54 18.00	0.3	
			S	02 34.50		
AVY	62.54	155	iPc	54 22 20	3.2X	
CD2	63.03	71	iPd	54 21.50	-0.7	
			S	02 53.00		
HHC	63.24	58	Pd	54 23.40	-0.1	
XAN	65.04	66	Pc	54 35.00	-0.3	
KMI	65.46	77	Pd	54 37.00	-1.3	
E	20s	61.40um				
			pP	54 49 00	41kmX	
			PcP	56 10.00		
			PP	56 58.00		
			PcS	58 57.00		

			S	03 21.00		
			ScS	04 23.00		
TIY	65.46	61	Pc	54 38.00	0.0	
			S	03 19.00		
SLR	65.61	176	iPc	54 37.60	-1.3	
	1.3s	558.00nm				6.6mb
CHG	66.22	85	iPd	54 41.20	-1.8	
	1.2s	193.00nm				6.2mb
			eS	03 28.00		
CHTO	66.22	85	iPc	54 42.00	-1.0	
EVA	66.42	176	iPc	54 45.00	0.9	
CNG	66.44	173	iPc	54 50.00	6.0X	
	1.3s	300.00nm				6.3mb
			eS	03 49.00		
BJI	66.64	57	eP	54 45.00	-0.4	
	2.0s	190.00nm				5.9mb
			pP	54 51.00	19kmX	
			sP	54 56.00		
			eS	03 34.00		
BNH	66.91	309	eP	54 48.00	0.9	
BDT	67.19	86	eP	54 47.20	-1.9	
	1.1s	317.00nm				6.4mb
JOZ	67.58	173	iPc	54 50.70	-0.5	
GYA	67.62	74	P	54 50.60	-1.3	
			S	03 45.00		
MNT	67.78	311	iPd	54 56.00	3.5X	
	2.2s	1030.00nm				6.6mb
KHT	68.36	89	eP	54 57.00	0.5	
RSNY	68.86	311	eP-	55 00.00	0.8	
BRW	68.87	1	P	55 00.10	1.3	
NST	69.00	87	iPc	54 59.80	-0.6	
OTT	69.04	312	eP	55 03.00	2.7	
	1.2s	403.00nm				6.5mb
SEY	69.14	23	iPc	55 00.70	0.1	
	2.0s	1140.00nm				6.7mb
Z	20s	78.40um				6.9Msz
N	20s	82.00um				
E	22s	76.80um				
			isP	55 12.70		
			ePcP	55 26.70		
			ePP	57 39.70		
			eS	04 08.70		
FCC	69.18	331	iPd	55 04.30	3.4X	
			pP	55 27.30	89kmX	
TIA	69.42	60	P	55 01.90	-0.9	
			PP	57 35.00		
			S	04 03.50		
CN2	70.16	49	Pc	55 06.50	-0.7	
			S	04 12.40		
SNY	70.23	52	iPc	55 07.00	-0.6	
			PP	57 41.00		
			iS	04 17.00		
			SS	09 00.00		
NNT	70.57	90	eP	55 08.80	-1.3	
PCT	70.58	87	eP	55 08.70	-1.4	
	1.1s	134.00nm				6.0mb
INK	70.67	352	eP	55 09.50	-0.3	
	1.2s	237.00nm				6.2mb
DL2	70.76	55	eP	55 11.00	0.1	
			PP	57 47.00		
			S	04 28.00		
MGD	70.77	25	iPc	55 10.50	-0.1	
	1.2s	450.00nm				6.5mb
			isP	55 24.00		
			iPcP	55 30.00		
			iPP	57 46.00		
			iS	04 28.00		
			iPS	04 54.00		
			eSSS	12 00.00		
WHN	70.80	66	P	55 11.00	-0.2	
			S	04 25.00		
ILT	70.85	9	iPc	55 11.00	0.1	
	1.5s	140.00nm				5.9mb
Z	22s	89.00um				7.0Msz
N	22s	45.00um				
E	22s	61.00um				
			ipP	55 18.00	22kmX	
			iPcP	55 34.00		
			iPP	57 54.00		
			iPPP	59 26.00		
			eS	04 20.00		
			iScS	05 10.00		
MDJ	72.01	47	eP	55 18.50	0.2	
			PP	58 03.00		
			eS	04 41.00		
SUR	72.24	183	iPc	55 26.40	6.6X	
	1.0s	100.00nm				5.9mb

06d 15h

YKC		72.61	341	eP	55	21.00	-0.6					eS	05	55.00					e	57	01.00		
YKA		72.63	342	eP	55	25.30	3.6X					ePS	06	40.00		RLO		86.02	315	eP	56	34.70	0.2
RSNT		72.64	342	iPc	55	22.70	1.0	ANP		79.08	66	iP+	56	03.00	4.1X	LRM		86.23	332	ePc	56	36.80	1.1
NJ2		73.02	62	Pd	55	23.00	-1.4					iS	05	59.00		PHC		86.31	343	eP	56	39.00	3.4X
				S	04	51.00		SVW		79.12	0	P	55	59.80	1.4	GBO		86.34	315	eP	56	36.70	0.6
GRM		73.10	178	iPc	55	27.00	2.3	SAP		79.34	42	eP	56	02.00	2.1	ADK		86.48	13	e(P)	56	43.50	7.0X
		0.9s		437.00nm			6.5mb					eS	05	57.00		NKI		86.56	8	(P)	56	37.40	0.6
	Z	20s		56.70um			6.8Msz	PPI		79.36	100	eP	56	00.00	-0.4	TUL		86.63	316	eP	56	38.50	1.0
CAI		73.33	246	ePd	55	20.50	-6.0X	PCA		79.37	352	(P)	56	02.40	2.6			1.0s		236.00nm			6.4mb
ELF		73.56	313	P	55	30.25	2.8	SHNJ		79.69	54	P	56	04.00	2.1		Z	19s		2.70um			5.7MszX
LDN		73.59	313	P	55	30.25	2.6	NGS		79.83	56	eP	56	06.00	3.3X					e	56	54.80	
DLA		73.92	313	P	55	31.50	1.9					eS	06	16.00		PGC		87.22	340	eP	56	43.70	3.6X
IMA		74.13	359	(P)	55	31.80	1.3	KGM		79.98	96	ePc	56	03.40	-0.4	BDW		87.70	328	eP	56	43.00	0.1
VLA		74.25	47	iPd	55	30.00	-1.4	SKR		80.06	29	eP	56	04.60	1.0	ACO		87.79	318	e(P)	56	44.00	0.9
				ePP	58	17.00				6.0s		2000.00nm			6.3mb X			1.3s		88.60nm			5.9mb
				ePPP	00	07.00			Z	18s		75.60um			7.1Msz	OCO		87.82	316	ePd	56	47.20	3.9X
				iS	05	03.00			N	18s		64.80um				ATO		87.95	317	e(P)	56	47.30	3.4X
				iSS	09	47.00			E	18s		97.00um				GLD		88.32	324	e(P)	56	47.00	1.2
LHC		74.27	321	eP	55	35.00	3.5X					iPP	59	09.80				1.5s		259.00nm			6.3mb
GZH		74.50	73	Pc	55	33.00	-0.1					iS	06	06.00			Z	20s		150.00um			7.4Msz
				PPP	00	13.00		EDM		80.21	336	ePc	56	05.00	0.5	LGP		88.38	74	iP	56	45.00	-1.2
				S	05	08.00		AOMJ		80.62	44	P	56	08.00	1.2	SDV		88.41	280	eP	56	49.00	2.4
RSON		74.62	325	eP	55	34.60	1.2	KUR		80.91	37	iPc	56	08.00	-0.2	GOL		88.43	324	eP+	56	46.80	0.3
SNG		74.63	94	iPd-	55	28.00	-6.0X			1.2s		480.00nm			6.4mb			1.3s		70.80nm			5.8mb
		1.5s		722.00nm			6.5mb					ePP	59	19.00		LEM		88.95	100	eP	56	50.00	0.9
				iS	04	47.00						iS	06	17.00				1.8s		364.00nm			6.3mb
MRG		75.06	309	iPd	55	39.30	3.1X					ePPS	07	25.00						eS	07	24.00	
				e	05	25.00						eSS	11	24.00		UAV		88.97	280	eP	56	54.20	4.9X
FFC		75.10	331	eP	55	36.00	-0.2	RSCP		81.07	309	ePd-	56	13.00	3.7X	RDJ		89.02	239	eP	56	52.40	3.4X
		1.0s		126.00nm			5.9mb	HJH		81.39	45	P	56	10.70	-0.1	BMA		89.49	239	eP	56	53.80	2.5
COL		75.14	357	eP	55	37.00	0.8	KAGJ		81.50	56	P	56	11.00	-0.6					e	56	58.20	
				iS	05	18.00		TKSJ		81.59	52	P	56	12.50	0.5					i	57	02.30	
F8A		75.14	357	P	55	36.90	0.7	SKH		81.62	46	P	56	16.00	4.0X	CNP		89.49	74	ePd	56	54.00	2.5
SSE		75.18	62	iPc+	55	36.00	-1.0	TSRJ		81.68	50	P	56	11.00	-1.4	PLP		90.60	75	eP	57	02.00	5.4X
		8.0s		4.80nm			3.6mb X	SIT		81.73	349	P	56	14.40	2.2	COR		90.90	338	eP	57	02.00	4.4X
	Z	16s		45.50um			6.9MszX	SES		81.85	333	ePc	56	14.00	0.8	HKT		91.11	312	eP	57	03.00	4.2X
	N	13s		10.80um						1.2s		353.00nm			6.3mb					eS	00	49.00	
	E	14s		36.00um				MTMJ		82.01	48	P	56	14.30	0.0	VAO		91.57	241	eP	57	01.90	0.9
				ePP	58	26.00		OSK		82.13	51	eP	56	18.00	3.2X					e	57	06.30	
				ePPP	00	14.00						S	06	39.50						e	57	10.10	
				S	05	12.00		MIY		82.13	44	eP	56	22.00	7.3X	LUB		91.61	318	eP	57	05.00	3.8X
				i	05	18.00						eS	06	28.00		ATX		91.99	313	eP	57	05.00	2.1
ANM		75.34	4	P	55	40.00	2.7	MIY		82.13	44	P	56	15.00	0.3	ALQ		92.79	322	eP	57	06.00	-0.8
TSI		75.41	98	ePd	55	39.50	1.0	YAMJ		82.14	46	P	56	15.30	0.5			1.0s		37.50nm			5.8mb
AAM		75.46	313	eP	55	41.20	2.8X	FVM		82.18	314	ePc	56	15.70	0.7		Z	18s		85.90um			7.2Msz
				S	05	21.20				2.0s		774.00nm			6.5mb					e	57	10.00	
ITR		75.80	245	eP	55	40.10	-0.6	NIIJ		82.23	47	P	56	15.00	-0.2	JCT		92.93	315	eP	57	05.20	-2.1
				i	56	04.50		YAM		82.26	46	P	56	18.80	3.4X			1.1s		94.90nm			6.1mb
				i	58	37.00		MAT		82.27	48	eP	56	15.00	-0.5		Z	22s		100.00um			7.2Msz
UTO		75.83	313	ePd	55	44.00	3.5X			1.4s		76.70nm			5.6mb					eS	08	20.00	
PSI		76.20	98	ePc	55	41.50	-1.5		Z	21s		36.90um			6.7Msz	EUR		93.01	331	iP	57	11.00	3.2X
		1.2s		192.00nm			6.1mb					eS	06	30.00				1.0s		38.10nm			5.8mb
IPM		76.59	95	ePd	55	44.90	-0.4	WKYJ		82.36	51	P	56	18.20	2.1	DAV		93.70	78	eP	57	10.00	-0.9
		1.4s		85.00nm			5.6mb	OFUJ		82.38	44	P	56	17.60	1.6	BOG		93.75	279	eP	57	15.50	3.9X
				e	56	17.80		KDC		82.46	358	P	56	18.10	2.1					eS	07	47.00	
				e	58	22.30		PIP		82.77	72	ePd	56	08.50	-9.8X	MIN		94.23	335	iPc	57	16.70	3.5X
BPA		76.65	281	eP	55	46.00	0.4	IIDJ		82.85	49	P	56	20.20	1.6	WDC		94.31	336	eP	57	16.50	3.1X
SEG		76.79	280	eP	55	49.00	2.8	CHJJ		83.07	48	P	56	19.40	-0.3					ePP	01	13.00	
BLA		76.90	308	iP-	55	49.60	2.9X	DDR		83.22	48	eP	56	21.80	1.3	FHC		94.56	337	eP	57	18.70	4.1X
	Z	22s		87.60um			7.0Msz	SHZ		83.49	49	P	56	24.00	2.2	CHN		94.70	280	iP	57	22.00	6.3X
				iS	05	37.60		ONA		83.50	46	P	56	29.00	7.2X	MNA		94.75	332	eP	57	19.80	4.1X
MGG		76.94	280	eP	55	50.50	3.4X	SRY		83.54	48	eP	56	23.00	0.9	JAS		95.99	333	iPc	57	25.40	4.2X
PAG		77.15	280	eP	55	52.50	4.2X	TSK		83.59	47	eP	56	21.20	-1.1					ePP	01	22.00	
QZH		77.16	68	Pc	55	48.00	-0.2	KAKJ		83.63	47	P	56	22.00	-0.5	FRI		96.59	332	eP	57	27.90	4.0X
				S	05	32.00		OYM		83.66	48	eP	56	23.40	0.7	BKS		96.67	334	eP	57	29.00	4.8X
YSS		77.18	38	iPc	55	50.20	2.2	TOK		83.76	48	eP	56	28.00	4.8X			3.5s		1160.00nm			6.8mb X
		1.0s		240.00nm			6.2mb	AJI		83.84	49	P	56	24.00	0.4		Z	20s		88.00um			7.2Msz
				iPcP	55	56.80		KTJ		83.91	49	P	56	24.80	0.9		N	20s		102.00um			
				ePP	58	44.00		BAG		83.97	74	eP	56	24.40	-0.3		E	20s		67.00um			
				iSKS	05	48.00						eS	06	46.00						ePP	01	27.80	
				eSPP	06	23.00		CVP		84.05	72	ePd	56	24.20	-0.6					eS	08	54.00	
TTA		77.29	0	P	55	49.60	1.3			1.1s		307.00nm			6.4mb					ePS	10	22.00	
MDN		77.38	279	eP	55	54.50	5.0X	RSSD		84.28	326	eP	56	26.50	0.5					e	12	22.00	
WAK		77.82	40	eP	55	52.00	0.5	KYS		84.33	48	eP	56	27.30	1.2					eSS	15	35.00	
				e	05	46.00		RXF		84.54	335	iP-	56	30.70	3.6X					eSSS	18	40.00	
TOA		77.85	356	P	55	53.50	2.0	CAR		84.57	279	eP	56	53.00	25.3X	MHC		96.95	334	eP	57	29.90	4.2X
SOB1		77.85	247	eP	55	51.90	-0.2	YKM		84.74	335	iP-	56	31.50	3.4X	PRI		97.69	332	eP	57	33.90	4.9X
				i	58	42.70		SDN		84.80	3	eP	56	32.00	4.0X	GLA		98.14	327	e(P)	57	32.00	1.0
				i	58	52.80		CLX		85.11	334	iPc	56	34.00	3.9X					e	57	34.90	
PME		78.47	357	eP	55	55.50	0.7	LHD		85.21	335	iP-	56	32.70	2.3	PSO		98.44	279	eP	57	37.50	4.5X
PMR		78.51	357	P	55	55.40	0.4	MVI		85.31	60	eP	56	35.00	3.9X	PAS		98.53	330	eP	57	38.00	5.3X
	Z	20s		46.50um			6.8Msz					eS	07	05.00				1.8s		80.00nm			6.1mb
PET		79.04	26	iPc	55	57.00	-1.0	MAN		85.45	75	eP	56	34.00	2.1					ePP	01	40.00	
		1.8s		420.00nm			6.2mb	OCP		85.47	75	eP	56	40.00	8.0X					eS	09	08.00	
				ePcP	56	03.00		PNT		85.54	337	eP	56	33.00	1.1	LPB		102.58	259	Pdiff	57	56.00	4.5X
				ePP	59	00.00				1.2s		195.00nm			6.2mb					S	28	08.00	
				ePPP	00	48.00		NEW		85.71	336	eP	56	34.00	1.2	GUMO		102.98	60	e(Pdif	57	57.00	4.2X

```
06d 15h

PJG   102.98  60 e(Pdif57 53.00   0.2
YJA   104.10 253 e(Pdif58 03.00   4.7X
ARE   105.09 261 e(Pdif58 07.00   4.4X
LPA   106.57 238 ePKP- 02 36.00  16.8X
  Z 19s   31.90um           6.9Msz
ANT   108.64 254 e(PKP)02 55.00  31.6X
MAW   111.22 165 ePKP  02 29.00   2.0
WB2   117.39  94 ePKP  02 38.90  -1.4
                 e     02 46.70
                 e     03 49.80
                 e     13 11.30
                 e     17 07.00
ASPA  119.16  97 ePKP  02 44.00   0.4
ISQ   121.82  91 ePKP  02 48.00  -0.7
CTA   126.59  86 iPKP  03 00.70   2.7X
   1.1s   101.00nm
                 i     05 00.00
                 i     05 30.00
ADE   128.48 107 ePKP  03 03.80   2.6X
SPA   129.94 180 ePKPc 03 04.30   1.2
   1.2s   164.00nm
  Z 20s    58.30um          7.3Msz
                 e     05 03.00
CMS   132.23  99 ePKP  03 10.00   1.6
TOO   134.54 107 ePKP  03 08.00  -4.6X
YOU   135.38 101 ePKP  03 10.80  -3.5X
                 i     03 17.50
DRV   136.00 149 iPKP  03 15.50   1.1
CAN   136.27 102 iPKPc 03 17.50   1.5
                 i     03 22.00
WAM   136.53 103 ePKP  03 12.70  -3.7X
                 e     03 22.90
SBA   139.07 169 iPKP  03 20.90   1.0
                 iS    06 17.60
KOU   140.44  73 iPKPc 03 34.90  10.9X
NOU   143.10  73 iPKPc 03 15.80 -12.8X
MCQ   146.45 131 ePKP  03 38.00   4.7X
NDF   147.57  55 ePKP  03 42.50   6.4X
SVA   148.47  54 ePKP  03 43.00   5.4X
MSZ   152.60 112 PKP   03 51.70   8.7X
CRZ   153.97  88 PKP   04 14.90  29.6X
PPN   156.92 346 ePKP  03 58.00   8.4X
   1.3s    70.00nm
TVO   157.13 345 ePKP  03 56.00   6.0X
   1.3s   185.00nm
KRP   157.26  94 ePKP  04 07.00  17.5X
                 (PcP) 04 24.00
GNZ   159.33  95 ePKP  04 00.00   8.2X
   S.D. = 1.3  on 385 of 492 obs.

 AUG 17, 1983  10h 55m 54.53± 0.45s
 55.851 N ± 1.5km  161.297 E ± 1.4km
 DEPTH =  66.3 ±  4.1 km
 6.6mb (140 obs.)
 NEAR EAST COAST OF KAMCHATKA   (218)
   Felt (IV-V) at Petropavlovsk-
   Kamchatskiy.

PET     3.23 210 iPn   56 45.00   1.1
                 eSn   57 20.00
SKR     6.06 213 ePn   57 22.60  -0.9
   2.0s  *******nm          7.7mb X
  Z 24s  1192.00um
MGD     7.02 312 iPnd  57 41.30   4.5X
  Z 20s   794.00um
  N 14s   418.00um
  E 17s   390.00um
SMY     8.12 107 eP    57 49.90  -2.1
SEY     8.40 331 iPnd  58 01.80   6.0X
  Z 15s   655.00um
  N 14s   553.00um
  E 16s   414.00um
NKL    12.25 266 iPnd  58 55.00   7.1X
   8.0s  *******nm          7.2mb X
UGL    13.50 248 iPnc  59 10.80   6.4X
   8.0s    30.70nm          4.0mb X
ADK    13.57  98 P     59 04.00  -1.2
KUR    13.61 224 iPnd  59 06.50   0.8
   1.2s  6840.00nm          7.1mb
YSS    14.54 240 iPc   59 24.00   6.1X
   1.0s   840.00nm          6.0mb
  Z 14s   381.00um
  N 15s   264.00um
  E 16s   161.00um
                 iS    02 04.00
SHO    15.17 224 eP    59 20.30  -5.7X
   0.4s     0.06nm          2.2mb X

  Z 17s   170.00um
  N 17s   250.00um
  E 17s   230.00um
                 eS    02 04.00
ILT    15.22  30 iPc   59 30.00   3.5X
   1.2s  5600.00nm          6.6mb
ABJ    16.08 230 eP    59 41.00   3.5X
                 S     03 06.90
NEM    16.10 225 P     59 36.00  -1.8
WAK    16.19 238 eP    59 45.00   6.1X
                 eS    03 13.00
KUSJ   16.65 227 P     59 39.00  -5.7X
ASAJ   16.72 233 P     59 47.50   1.9
KUS    16.88 227 eP    59 45.00  -2.5
                 eS    02 52.00
ASA    17.11 233 eP    59 52.00   1.5
                 e     00 09.50
YAK    17.30 304 iPc   59 54.10   1.5
   1.6s  *******nm          7.2mb
                 iS    03 10.90
RMJ    17.31 235 eP    59 54.00   1.1
                 eS    03 15.00
OBI    17.42 230 eP    59 56.00   1.7
NKI    17.55  87 iPc   59 57.70   1.9
HOOJ   17.83 228 P     59 59.00  -0.3
SAP    18.14 233 eP    00 02.00  -1.1
                 e     00 20.00
URA    18.23 229 eP    00 05.00   0.8
                 e     03 20.00
ANM    18.50  48 eP    00 09.10   1.7
MRRJ   18.76 233 P     00 12.00   1.4
SUT    18.85 235 eP    00 10.00  -1.7
                 e     00 29.00
HAK    19.39 232 P     00 17.00  -0.6
HAC    20.11 229 eP    00 25.00  -0.1
                 S     04 11.70
AOMJ   20.57 231 P     00 29.00  -0.9
MIY    20.66 226 P     00 32.00   1.2
TIK    20.91 332 ePc   00 35.00   1.9
   0.9s  1800.00nm          6.4mb
  Z 15s    38.00um          5.9MszX
  N 14s   128.00um
  E 16s   247.00um
                 ePP   01 08.00
                 eS    04 23.00
                 ePcP  04 42.00
                 eSS   04 51.00
MRK    20.95 228 eP    00 34.00   0.3
                 eS    04 19.00
OFU    21.26 226 eP    00 38.00   1.2
                 eS    04 20.00
OFUJ   21.27 226 P     00 38.00   1.1
AKI    21.39 230 eP    00 39.00   0.9
                 eS    05 06.00
SDN    21.42  75 P     00 36.90  -1.4
HJH    21.67 229 P     00 41.00   0.1
ISN    21.97 226 P     00 44.00   0.1
SEN    22.28 226 P     00 50.00   3.1X
                 eS    04 46.00
TTA    22.48  54 iPc   00 50.10   1.2
YAM    22.51 227 P     00 50.00   0.8
YAMJ   22.71 228 P     00 52.00   0.8
SVW    22.79  59 P     00 53.60   1.7
FKS    22.88 226 eP    00 55.00   2.2
                 e     05 40.00
MDJ    22.97 254 Pc    00 54.00   0.3
                 sP    01 15.00
ONA    23.41 225 P     01 00.00   2.1
TUP    23.46 284 eP    00 59.20   0.9
   1.1s   910.00nm          6.1mb
                 epP   01 21.00 101kmX
SHR    23.53 226 P     01 00.00   0.8
IMA    23.57  46 P     01 00.60   1.1
AIK    23.60 231 P     01 00.00   0.2
NIIJ   23.93 228 P     01 01.80  -1.3
MIT    24.07 225 eP    01 07.00   2.6
                 eS    05 28.00
UTS    24.17 226 P     01 05.30  -0.1
KAKJ   24.34 225 P     01 05.00  -2.0
TSK    24.36 225 eP    01 05.50  -1.7
TKD    24.37 229 ePd   01 10.00   2.8
                 i     01 29.00
RDT    24.42  60 P     01 08.60   0.8
CHO    24.50 223 P     01 10.00   1.5
MAE    24.62 227 eP    01 12.00   2.3
KMG    24.71 226 P     01 12.60   2.1
WAJ    24.72 232 eP    01 12.00   1.4

                 eS    06 05.00
NGN    24.76 229 P     01 13.00   1.9
                 i     01 33.00
MAT    24.86 229 iPd   01 11.00  -1.0
   0.4s   508.00nm          6.3mb
                 eS    05 28.00
DDR    24.91 226 eP    01 11.00  -1.6
CHJJ   24.95 227 P     01 11.60  -1.3
TOK    24.96 225 eP    01 16.00   3.1X
MTMJ   24.99 229 P     01 12.00  -1.4
KDC    25.00  66 eP    01 11.40  -1.7
SLV    25.04  62 P     01 12.60  -0.9
KYS    25.23 224 eP    01 16.50   1.0
OYM    25.39 226 eP    01 15.30  -1.8
BOD    25.44 294 eP    01 19.20   2.0
   0.9s   960.00nm          6.3mb
TAT    25.53 224 eP    01 20.00   1.8
                 e     06 10.00
TKY    25.60 230 P     01 18.00  -0.9
CN2    25.77 257 Pc    01 17.60  -2.8
                 sP    01 38.00
AJI    25.78 225 P     01 19.00  -1.6
PMR    25.82  57 P     01 21.00   0.3
PME    25.86  57 P     01 21.40   0.3
KTJ    25.87 225 P     01 20.00  -1.4
IIDJ   25.89 228 P     01 20.00  -1.7
IID    25.90 228 eP    01 23.00   1.3
                 e     01 43.00
OSH    25.91 225 P     01 23.70   1.9
MPA    25.92  59 P     01 20.50  -1.1
COL    26.03  49 iPc   01 22.60   0.0
                 eS    06 27.00
FBA    26.03  49 iPc   01 22.60   0.0
SHZ    26.12 227 P     01 27.90   4.2X
HMM    26.63 227 eP    01 43.00  14.6X
TSRJ   26.67 231 P     01 28.00  -0.7
TK04   26.85 227 P     01 31.50   1.3
TK03   27.00 226 P     01 33.10   1.5
TOA    27.11  55 P     01 32.70   0.1
TK02   27.28 226 P     01 33.00  -1.0
HIN    27.32  59 P     01 34.50   0.0
NAR    27.45 230 P     01 37.00   1.1
TOTJ   27.48 233 P     01 36.00  -0.1
TK01   27.50 226 P     01 36.90   0.9
OSK    27.59 230 eP    01 35.00  -2.2
                 eS    06 56.00
OWA    27.83 229 P     01 39.00  -0.2
WKYJ   27.95 230 P     01 41.00   0.5
YONJ   28.09 234 P     01 40.00  -1.6
SNY    28.11 256 iPc   01 40.00  -1.7
                 sP    02 00.00
                 S     06 36.50
GLB    28.35  56 P     01 43.80   0.0
SHJ    28.54 229 P     01 46.00   0.4
TKSJ   28.83 232 P     01 47.70  -0.6
SHK    28.99 235 ePc   01 48.10  -1.7
HIR    29.24 235 P     01 52.00   0.0
MRT    29.39 231 P     01 54.00   0.6
WRG    29.57  58 P     01 55.70   1.0
CTGM   29.63  56 P     01 55.80   0.4
SHNJ   30.06 236 P     02 00.10   0.9
UWA    30.14 233 P     02 00.00   0.1
PCA    30.40  58 ePc   02 01.50  -0.6
OIT    30.56 235 ePd   02 06.00   2.4
                 eS    07 32.00
NOB    31.07 234 P     02 10.00   1.9
SAG    31.16 237 eP    02 11.00   2.1
DL2    31.22 254 Pc    02 07.00  -2.3
                 sP    02 27.00
INK    31.29  41 iPc   02 09.70   0.0
   1.0s   960.00nm          6.5mb
                 pP    02 55.00 223kmX
NGS    31.79 237 eP    02 14.00  -0.4
                 eS    07 17.00
CBI    31.88 214 eP    02 16.00   0.7
                 eS    07 55.00
KAG    32.44 234 eP    02 22.00   1.9
KAGJ   32.61 234 P     02 20.00  -1.6
IRK    32.83 288 ePc   02 24.00   0.7
   2.6s  3140.00nm          6.7mb
  Z 18s   337.00um          7.1Msz
  N 18s   229.00um
  E 18s   171.00um
                 esP   02 57.20
                 ePPP  03 55.00
                 eS    07 33.00
BJI    33.42 261 eP    02 26.00  -2.5
```

17d 11h

2.0s 389.00nm 5.9mb
(pP) 02 48.00 96kmX
(PP) 04 10.00
eS 08 13.00
NRI 33.89 323 iPc 02 31.20 -1.2
1.3s 490.00nm 6.3mb
Z 23s 134.00um 6.6MszX
N 15s 57.00um
E 20s 127.00um
epP 02 54.00 100kmX
ePP 03 51.00
ePPP 04 10.00
eS 07 50.00
SIT 33.93 61 eP 02 33.80 1.0
MBC 34.23 25 eP 02 35.00 -0.2
ZAK 34.35 286 iPc 02 36.80 0.4
2.6s 3730.00nm 6.9mb
E 16s 241.00um
ePPP 04 12.00
iS 08 01.80
MOY 34.90 289 ePd 02 42.80 1.6
1.6s 680.00nm 6.3mb
Z 14s 29.00um 6.2MszX
epP 03 07.80 111kmX
ePPP 04 20.50
HHC 35.46 266 Pc 02 46.00 -0.2
sP 03 07.50
TIA 35.63 255 Pc 02 45.70 -1.8
sP 03 06.50
sS 08 40.50
BTO 36.49 267 P 02 55.00 0.1
MVI 37.09 228 eP 03 02.00 2.2
TIY 37.13 262 Pc 02 59.00 -1.2
sP 03 19.00
SSE 37.40 245 Pc 03 02.00 -0.4
6.0s 6.96nm 3.8mb X
N 12s 5.59um
E 12s 31.00um
sP 03 21.50
PP 04 32.00
S 08 52.00
sS 09 12.00
ScS 13 09.00
KHE 37.49 345 iPd 03 04.50 1.8
2.0s 6390.00nm 7.2mb
Z 15s 115.00um 6.8MszX
iPPP 05 04.00
iS 08 48.00
isS 09 34.00
iSS 11 19.00
eSSS 12 03.00
NJ2 37.86 249 iPc 03 05.00 -1.3
pP 04 40.00 534kmX
iS 08 58.00
UER 38.60 293 iPd 03 12.10 -0.1
1.8s 1050.00nm 6.4mb
iPcP 04 21.10
YKA 40.68 45 eP 03 31.00 1.7
RSNT 40.70 45 eP 03 29.60 0.2
YKC 40.74 45 ePc 03 30.00 0.2
1.0s 1170.00nm 6.7mb
PHC 41.19 66 eP 03 35.00 1.4
1.5s 1670.00nm 6.6mb
WHN 41.43 252 P 03 34.00 -1.8
iPcP 05 30.00
S 09 50.00
ScS 13 29.80
ELT 41.62 299 iP 03 35.40 -1.6
1.6s 1350.00nm 6.5mb
iS 09 47.00
eScS 13 25.30
XAN 41.75 261 eP 03 38.00 -0.5
S 10 30.00
ANP 42.09 240 iP+ 03 42.00 0.6
iS 09 40.00
NVS 42.11 303 iPc 03 40.30 -0.8
1.7s 1710.00nm 6.6mb
ipP 04 04.00 101kmX
iPP 05 22.00
iPcP 05 33.50
iS 09 53.80
isS 10 34.00
iScS 13 35.00
GTA 43.05 274 iPc 03 48.60 -0.6
S 09 52.00
LZH 43.11 268 iP+ 03 50.00 0.3
9.6s 3280.00nm
N 14s 189.00um
E 14s 133.00um
pP 04 02.50 46kmX
sP 04 09.50
PcP 05 20.00
PP 05 51.00
PPP 06 43.00
PcS 09 13.00
S 10 38.00
ScS 13 21.00
SS 13 50.50
QZH 43.74 243 iPc 03 52.50 -2.1
sP 04 12.00
S 10 25.00
sS 10 45.00
GUMO 44.05 203 eP 03 54.50 -2.7
PJG 44.05 203 eP 03 54.50 -2.7
(pP) 04 18.50 102kmX
GUA 44.09 203 eP 03 53.80 -3.8X
0.7s 175.00nm 6.0mb
e(S) 10 07.00
PGC 44.50 66 eP 04 01.00 0.5
HON 45.80 122 P 04 12.50 1.4
PNT 46.03 63 ePc 04 12.00 -0.8
1.1s 475.00nm 6.3mb
pP 04 42.00 131kmX
SEM 46.31 299 ePc 04 12.70 -2.2
1.3s 1170.00nm 6.7mb
Z 16s 103.00um 6.9MszX
N 15s 42.00um
E 14s 68.00um
epP 04 36.60 101kmX
ePP 06 03.20
eS 10 55.50
EDM 46.58 56 iPc 04 16.80 -0.3
WMQ 46.76 288 iPc 04 19.00 0.3
sP 04 41.50
S 11 01.50
CD2 46.98 263 P 04 19.00 -1.5
sP 04 40.00
DAG 47.65 0 iPd 04 24.60 -0.5
1.0s 150.00nm 5.9mb
GZH 47.95 247 Pc 04 27.50 -0.6
sP 04 46.00
NEW 47.97 63 iPc 04 27.20 -0.9
e 04 51.00
HKC 48.17 246 iP 04 30.00 0.2
YKM 48.27 61 iPc 04 30.00 -0.5
RXF 48.56 61 iPc 04 32.00 -0.7
MCO 48.63 246 eP 04 34.00 0.6
LDM 48.74 62 iPc 04 33.40 -0.6
LHD 48.75 62 eP 04 34.00 -0.2
GYA 48.81 256 P 04 33.00 -1.8
CLX 49.00 62 iPc 04 35.90 -0.3
FHC 49.43 75 ePc 04 39.70 0.3
SES 49.52 57 iPc 04 39.20 -0.8
1.0s 166.00nm 6.0mb
BAG 50.05 235 eP+ 04 41.00 -3.5X
i 11 42.00
WDC 50.37 74 iPc 04 46.20 -0.3
epP 05 20.00 147kmX
eP'P' 35 49.00
KEV 50.42 341 iP+ 04 47.50 1.0
0.7s 200.00nm 6.3mb
i 04 52.00
ePP 07 00.00
eS 11 52.00
eP'P' 35 26.00
FFC 50.63 48 eP 04 48.00 -0.3
SVE 50.78 316 iPc 04 50.50 1.1
1.5s 1200.00nm 6.7mb
Z 24s 185.00um 7.0MszX
N 24s 80.00um
E 24s 127.00um
iS 12 00.00
APA 51.01 337 iPc 04 50.70 -0.3
2.0s 1300.00nm 6.6mb
ipP 05 16.00 106kmX
eS 12 00.00
MIN 51.04 73 iPc 04 51.00 -0.8
OCP 51.38 233 eP 04 56.00 1.7
LGP 51.52 229 ePd 04 56.00 0.6
ARU 51.87 316 eP 04 56.30 -1.3
1.0s 850.00nm 6.7mb
Z 20s 106.00um 6.9Msz
N 15s 40.20um
E 20s 70.20um
epP 05 20.00 98kmX
ePcP 06 14.00
eS 12 07.00
eSP 12 15.00
LRM 51.97 62 iPc 04 58.00 -0.9
KMI 52.02 259 iP+ 04 58.00 -1.5
N 18s 116.00um
pP 05 13.00 57kmX
sP 05 20.00
PP 06 57.00
PPP 08 13.00
ScP 09 50.00
PcS 10 06.00
S 12 26.00
PS 12 43.00
sS 12 53.00
SS 16 10.00
PGP 52.43 233 ePd 05 03.00 0.7
0.7s 684.00nm 6.8mb
BKS 52.46 76 eP 05 01.80 -0.6
1.4s 2000.00nm 7.0mb
Z 20s 29.00um 6.3Msz
N 20s 22.00um
E 20s 37.00um
epP 05 36.00 148kmX
ePP 07 24.00
eS 12 22.00
eSS 16 18.00
SOD 52.55 340 iP 05 01.80 -0.8
iP'P' 35 10.20
TLG 52.58 294 eP 05 03.10 -0.2
2.0s 770.00nm 6.4mb
ipP 05 27.00 98kmX
iS 12 24.00
PRZ 52.61 292 eP 05 03.70 0.1
3.0s 4000.00nm 6.9mb
Z 15s 88.00um 6.9MszX
N 15s 74.00um
epP 05 27.00 95kmX
ePP 07 03.00
ePPP 08 09.00
eS 12 22.70
esS 13 05.00
eSSS 17 51.00
PLP 52.79 227 eP 05 02.50 -2.4
AAA 52.80 294 iPc 05 05.00 0.1
8.0s 8.00nm 3.8mb X
ipP 05 28.00 94kmX
iS 12 26.00
MHC 53.17 76 ePc 05 07.30 -0.5
epP 05 39.00 136kmX
BMN 53.33 70 eP 05 09.00 0.1
JAS 53.39 75 P 05 09.00 -0.2
MNA 54.27 73 eP 05 17.00 1.1
FRU 54.31 295 ePc 05 15.80 -0.2
2.4s 4720.00nm 7.1mb
Z 18s 67.50um 6.8Msz
N 13s 61.60um
E 15s 85.00um
ipP 05 41.80 108kmX
iS 12 46.00
FRI 54.48 75 ePc 05 16.50 -0.7
PRI 54.58 76 ePc 05 18.00 -0.1
epP 05 50.00 137kmX
NRN 54.61 293 eP 05 18.90 0.4
Z 16s 48.50um 6.7MszX
epP 05 42.50 96kmX
esP 05 57.00
eS 12 53.00
esS 13 33.00
EUR 54.68 70 iP 05 19.10 0.1
FRB 54.70 25 eP 05 17.00 -1.4
LSA 54.99 272 Pd 05 20.90 -0.7
sP 05 43.40
KJF 55.08 337 iPc 05 21.00 -0.2
1.0s 440.00nm 6.4mb
i 05 27.00
ePP 07 28.00
eS 12 12.00
eSSS 17 24.00
eP'P' 35 00.00
BDW 55.59 63 iPc 05 25.00 -0.5
KSH 56.06 292 Pc 05 29.00 0.2
sP 05 52.00
DAV 56.25 224 ePc+ 05 28.00 -2.1
e 13 13.00
SUF 56.72 337 iP 05 32.10 -0.9

17d 11h

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       0.4s   171.00nm            6.5mb
RSON  56.89  47 eP    05 33.30  -1.1
ANR   56.98 295 iPc   05 35.20   0.0
       2.0s  2500.00nm            7.0mb
     Z  11s    37.00um            6.7MszX
     N  11s    73.00um
     E  11s    88.00um
                  ipP   05 57.60  90kmX
                  iS    13 23.00
RSSD  57.33  59 iP    05 37.10  -0.7
PAS   57.43  76 iP    05 38.00  -0.4
       0.6s    90.00nm            6.1mb
                  eS    14 10.00
FRG   57.55 295 iPc   05 38.70  -0.5
       2.7s     5.40nm            4.2mb X
     Z  13s    41.00um            6.7MszX
     N  13s    61.00um
                  epP   06 02.70  97kmX
                  eS    13 17.20
SHL   57.76 269 iP    05 39.00  -2.0
                  iS    13 34.00
MUR   57.94 292 eP    05 41.80  -0.7
                  iS    13 38.70
TAS   58.10 298 ePc   05 43.00  -0.1
       3.0s  8000.00nm            7.3mb
     Z  18s    98.00um            7.0Msz
     N  17s    79.00um
     E  12s    50.00um
                  ipP   06 06.00  92kmX
                  ePcP  06 40.00
                  eS    13 36.00
                  eSS   17 34.00
PUL   58.32 333 eP    05 44.00  -0.3
       3.0s  3700.00nm            7.0mb
     Z  19s    90.00um            6.9Msz
     N  19s    70.00um
     E  20s    38.00um
                  ipP   06 12.00 115kmX
                  iPcP  06 40.00
                  iPP   08 04.00
                  iS    13 40.00
                  iSP   13 50.00
AKU   58.79 360 eP    05 48.80   1.4
MOM   58.81 196 eP    05 44.00  -4.1X
GCA   58.85  69 eP    05 47.60  -0.8
NUR   59.02 337 iP+   05 49.00  -0.1
       1.3s  1200.00nm            6.9mb
     Z  24s   192.00um            7.1MszX
                  i     05 55.00
                  ePP   08 16.00
                  ePPP  09 40.00
                  eS    13 48.00
                  eP'P' 35 00.00
RMU   59.10  69 eP    05 49.30  -0.9
CHTO  59.16 258 eP    05 49.80  -0.8
GAR   59.33 295 eP    05 51.20  -0.6
     Z  16s    36.00um            6.6MszX
                  epP   06 14.90  95kmX
                  eS    13 49.90
MOS   59.72 327 iPc   05 55.00   1.0
       2.0s  1400.00nm            6.7mb
     Z  26s   180.00um            7.1MszX
     N  24s   132.00um
     E  24s    73.00um
                  ipP   06 25.00 124kmX
                  esP   06 32.00
                  ePP   08 05.00
                  ePPP  09 34.00
                  iS    13 59.00
KKN   59.75 276 iPc   05 52.60  -2.3
       0.5s   190.00nm            6.5mb
PKI   59.85 275 iPc   05 53.40  -2.3
       0.8s   670.00nm            6.8mb
KHO   59.85 293 iPc   05 55.60   0.2
       9.2s  *******nm
     Z  17s    92.60um            7.0MszX
     N  17s    42.10um
     E  17s    20.00um
                  ePP   08 03.00
                  eS    13 58.00
DMN   59.99 276 iPc   05 55.20  -1.4
GOL   59.99  63 iPc   05 56.40  -0.1
GLD   60.03  63 eP    05 57.00   0.4
     Z  19s    45.60um            6.6Msz
GLA   60.08  74 iP    05 56.20  -0.6
RAB   60.31 190 e(P)  05 58.20  -0.2
REY   60.32   2 iP    05 58.70   0.8

                  i     06 00.50
                  i     35 25.80
BDT   60.41 257 eP    05 57.40  -1.7
       1.2s   274.00nm            6.3mb
DSH   60.45 296 iPc   05 59.00  -0.3
                  ipP   06 22.00  91kmX
                  iPS   14 40.00
KUL   60.45 295 iP    05 58.50  -0.8
                  ipP   06 21.70  92kmX
                  iPcP  06 43.40
                  iS    14 10.40
                  iPS   14 39.00
SAM   60.50 298 iPc   05 57.40  -2.2
       2.6s  3500.00nm            7.0mb
     Z  16s    92.70um            7.0MszX
     N  14s    69.80um
     E  16s    72.40um
                  ipP   06 22.40 100kmX
                  iS    14 07.00
                  iPS   14 43.00
                  iScS  15 33.20
OBN   60.52 327 iPc   05 59.50   0.1
       1.2s   680.00nm            6.7mb
     Z  26s   150.00um            7.0MszX
     N  26s   110.00um
     E  26s    68.00um
                  iPcP  06 42.00
                  iPPP  09 46.00
                  iS    14 09.00
                  iSS   18 10.00
WWW   60.99 200 eP    06 04.00   1.0
NST   61.07 255 eP    06 02.50  -1.1
UPP   61.08 340 iP    06 01.60  -1.6
       1.3s  3300.00nm            7.3mb
                  i     06 03.10
                  i     10 08.00
                  iS    14 15.00
                  eP'P' 34 59.30
KKM   61.16 234 iPd   06 05.10   0.7
       1.5s  1250.00nm            6.8mb
PCT   61.20 253 iPc   06 05.00   0.5
       1.6s   328.00nm            6.2mb
                  i     06 39.00
HFS   61.54 342 iP    06 05.30  -1.0
PAA   62.12 187 eP    06 10.00  -0.7
KHT   62.64 255 ePd   06 16.00   1.9
                  e     35 22.00
SCH   62.91  29 ePc   06 14.00  -1.5
       1.5s  2480.00nm            7.1mb
ALQ   63.08  67 iPc+  06 16.00  -1.2
       1.0s   265.00nm            6.2mb
     Z  18s    46.40um            6.7Msz
TZZ   63.12 203 eP    06 15.50  -1.8
LAT   63.40 196 eP    06 19.00   0.0
NDI   63.55 283 iPc   06 18.00  -2.0
       0.8s   101.00nm            5.9mb
     Z  20s    48.90um            6.7Msz
     N  20s    31.20um
     E  20s    36.20um
                  iS    14 42.50
NNT   63.83 253 eP    06 20.00  -2.0
                  e     35 13.80
HNR   65.05 181 eP    06 29.00  -0.7
AAI   65.25 217 ePc   06 30.90  -0.2
       1.9s  4020.00nm            7.1mb
LMG   65.44 194 eP    06 32.00  -0.5
MUD   65.78 343 iPc   06 35.10   1.1
       1.2s   990.00nm            6.7mb
                  i     07 00.00
COP   65.97 341 iPc+  06 36.60   1.4
                  iS    15 19.00
KAT   66.03 305 iPc   06 37.50   1.6
     Z  15s    68.80um            7.0MszX
     N  15s    50.00um
     E  14s    54.00um
                  epP   07 00.50  90kmX
                  ePcP  07 06.00
                  ePPP  10 38.00
                  eS    15 18.00
                  iPS   16 00.00
ASH   66.06 303 eP    06 36.60   0.5
                  ipP   06 59.90  91kmX
                  iPcP  07 01.20
PMG   66.08 195 eP+   06 33.00  -3.3X
     Z  18s    24.10um            6.4Msz
VAN   66.18 303 ePc   06 35.50  -1.4
       1.5s   480.00nm            6.2mb

     Z  16s   110.00um            7.2MszX
                  ePcP  07 00.00
                  eS    15 10.00
LUB   66.51  65 eP    06 30.00  -9.2X
MAK   66.80 313 iPc   06 41.00   0.3
       5.0s  *******nm            7.0mb X
                  iPcP  07 05.00
                  iPP   09 16.00
                  iSPP  15 56.00
MHI   66.82 301 iPc+  06 41.80   0.6
                  eS    15 23.00
GRO   67.23 314 iPc   06 44.00   0.5
       1.0s   750.00nm            6.6mb
     Z  18s    72.00um            6.9Msz
     N  18s   210.00um
     E  18s    75.00um
                  iPcP  07 07.00
                  iPP   09 17.00
EDU   67.24 351 eP    06 42.10  -1.2
       0.9s   509.00nm            6.5mb
ELO   67.38 351 ePc   06 43.20  -1.0
       0.6s   440.00nm            6.6mb
WAR   67.39 335 eP    06 45.00   0.7
                  e     07 00.00
                  eS    15 30.00
SIO   67.55  59 ePc   06 43.50  -2.1
EBH   67.58 351 ePc   06 44.60  -0.9
       0.8s   978.00nm            6.8mb
TUL   67.67  59 iPc+  06 44.50  -1.9
       1.3s  4060.00nm            7.2mb
     Z  18s    48.10um            6.8Msz
                  e(S)  16 16.00
PYA   67.69 317 iPc   06 46.00  -0.4
       1.0s   800.00nm            6.6mb
     Z  28s   171.00um            7.1MszX
                  eS    15 34.00
                  ePS   16 20.00
                  eSSS  22 53.00
EAB   67.71 351 iPc   06 45.40  -0.9
       0.7s   732.00nm            6.8mb
ESY   67.82 350 ePc   06 45.90  -1.1
       0.7s   830.00nm            6.8mb
RLO   67.83  58 iPc   06 45.40  -2.0
SNG   67.88 249 iPc+  06 50.80   2.9X
       1.7s  2630.00nm            6.9mb
BAK   67.93 310 iPd   06 48.00   0.2
     Z  18s    75.00um            7.0Msz
     N  18s   140.00um
     E  18s    78.00um
                  iS    15 46.00
EAU   67.97 351 ePc   06 47.20  -0.7
       1.1s  1460.00nm            6.9mb
EBL   68.01 351 ePc   06 47.10  -1.0
       1.3s  1130.00nm            6.7mb
GBO   68.01  58 ePc   06 46.50  -2.0
ELF   68.07  44 P     06 46.95  -1.8
DLA   68.25  45 P     06 48.30  -1.5
LDN   68.25  44 P     06 47.70  -2.1
OTT   68.31  40 eP    06 48.00  -2.1
       1.3s  1710.00nm            6.8mb
                  pP    07 22.00 139kmX
UTO   68.44  47 iPc   06 50.00  -1.0
EKA   68.45 351 Pc    06 50.20  -0.7
       1.6s  3210.00nm            7.0mb
ESK   68.47 351 iPc   06 50.30  -0.7
       0.9s   822.00nm            6.7mb
                  eS    15 48.20
FVM   68.51  54 eP    06 49.70  -1.8
HAM   68.53 342 iPc   06 53.00   1.6
ECK   68.60 350 iPc   06 50.90  -0.9
       0.8s   507.00nm            6.5mb
                  eS    15 51.50
LVV   68.85 332 iPc   06 52.00  -1.4
     Z  20s    76.50um            6.9Msz
     N  18s    83.60um
     E  20s    47.60um
                  iS    15 52.00
                  iSPP  16 21.00
                  iPS   16 29.00
                  iSS   20 18.00
BRN   68.93 340 iPc   06 51.50  -2.3
MNT   68.95  38 iPd   06 53.00  -1.1
       1.2s  1600.00nm            6.8mb
KHI   68.97 300 ePc   06 55.00   0.4
MTA   68.97 314 iP    06 55.00   0.8
                  ePcP  07 12 00
ANN   69.11 321 iPc   06 55.00   0.0
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17d 11h

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      N  20s     80.00um
                   iPS    16 33.50
SOC     69.35 319 iPc    06 57.00   0.5
        2.5s  1900.00nm            6.6mb
      N  28s     36.00um
      E  16s     36.00um
                   iPcP   07 17.00
                   iPS    16 35.00
                   iSSS   23 30.00
BHO     69.35  59 ePc    06 56.50  -0.2
ZUG     69.43 317 iP     06 59.00   1.9
BKR     69.46 315 iPc    06 58.00   0.5
                   iPcP   07 22.00
                   iSP    16 27.00
                   iScS   16 42.00
                   iSSS   23 30.00
KRA     69.67 335 iPc    06 59.20   0.8
        1.5s   902.00nm            6.5mb
      Z  27s    148.00um           7.1MszX
      N  24s     66.00um
      E  24s    112.00um
                   i      07 05.20
                   e      07 13.30
                   i      07 23.00
                   i      07 33.80
                   iS     16 00.00
                   i      21 00.00
WIT     69.70 344 iP     07 00.00   1.5
                   ipP    07 24.40  95kmX
ABS     69.71 315 iPc    07 00.60   1.8
        0.5s   160.00nm            6.2mb
                   isP    07 42.20
STE     69.73 314 iPc    06 59.60   0.5
        1.5s     1.80nm            3.8mb X
                   iPPP   11 10.00
                   iS     16 04.00
                   iPS    16 42.60
AKH     69.75 315 iPc    06 59.60   0.3
IPM     69.86 247 ePd    06 58.30  -1.8
        0.9s   348.00nm            6.3mb
                   e      07 10.70
                   e      07 36.60
                   e      07 49.30
                   e      08 42.40
MKS     69.88 225 iPd    07 01.50   1.4
        1.0s  1030.00nm            6.7mb
KIS     70.01 327 iPc    07 01.00   0.5
        3.0s  2700.00nm            6.7mb
      N  21s     55.00um
      E  20s     67.00um
                   iPcP   07 24.00
                   iS     16 02.00
CLL     70.02 339 iPc    06 59.80  -0.7
        1.4s  1400.00nm            6.7mb
                   ipP    07 25.00  98kmX
                   eS     16 08.00
                   P'P'   34 57.80
LEN     70.14 314 iPc    07 02.00   0.4
SIM     70.16 323 iPc    07 02.00   0.5
      Z  18s      7.80um           6.0Msz
      N  18s     67.00um
      E  18s     47.00um
                   iPcP   07 23.00
                   iS     16 09.00
                   iSPP   16 45.00
GRS     70.18 312 iPc    07 02.60   0.7
        1.4s   590.00nm            6.3mb
                   iPcP   07 25.80
                   ipP    07 31.00 113kmX
                   isP    07 41.00
                   iS     16 06.00
                   iPS    16 46.00
IAS     70.24 328 eP     07 04.00   2.1
BRG     70.24 339 iPc    06 59.90  -2.0
        1.4s   810.00nm            6.5mb
                   ipP    07 29.70 119kmX
                   iS     16 12.00
                   esS    16 48.00
                   P'P'   34 57.80
ERE     70.37 313 eP     07 02.00  -1.0
                   iPcP   07 29.00
                   iS     16 14.00
                   iScS   16 52.00
UZH     70.39 332 iPc    07 03.00   0.2
        1.5s   700.00nm            6.4mb
      Z  16s     80.00um           7.1MszX
      N  16s     47.00um
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      E  16s     47.00um
                   iPcP   07 30.00
                   ipP    07 33.00 120kmX
                   isP    07 45.00
                   iS     16 09.00
                   iSPP   16 47.00
SPC     70.40 334 iP     07 04.50   1.4
                   i      07 27.00
                   i      12 02.00
                   e      16 18.40
                   e      17 23.60
WTS     70.47 344 ePc    07 03.00  -0.2
        1.0s   610.00nm            6.5mb
                   i      07 10.50
                   epP    07 28.00  97kmX
                   ePP    09 42.00
                   e      10 08.00
                   e      11 47.00
                   eP'P'  34 48.50
BNH     70.56  37 eP     07 03.30  -0.7
DBN     70.62 345 iP+    07 05.00   0.9
      Z  22s     15.60um           6.2Msz
                   ipP    07 27.00  84kmX
                   i      10 16.00
                   i      11 04.00
                   e      12 02.00
                   e      12 47.00
                   iS     16 11.00
                   isS    16 54.00
                   i      17 08.00
                   e      17 50.00
                   eSS    20 33.00
                   e      21 09.00
                   eSSS   23 35.00
KLM     70.80 246 ePc    07 05.80   0.1
                   e      08 02.10
NAK     70.83 312 iPc    07 06.80   1.2
                   iS     16 11.80
KGM     70.87 244 ePc    07 06.70   0.5
        1.0s   219.00nm            6.0mb
CLI     70.90 328 eP     07 06.00   0.0
MOX     70.92 340 iPc+   07 05.70  -0.3
        1.8s    18.80nm            4.7mb X
                   ipP    07 24.00  68kmX
                   isP    07 30.00
                   iPP    10 08.00
                   i      12 00.00
                   iS     16 15.00
                   iPS    16 56.00
                   iSS    21 20.00
                   eP'P'  34 29.00
PRU     70.96 338 iPc    07 06.10  -0.1
        1.5s   768.00nm            6.4mb
      Z  19s     53.50um           6.8Msz
      N  17s     41.60um
      E  15s     20.00um
                   e      07 27.00
                   i      12 00.00
                   S      16 56.00
BIR     71.06 328 iP     07 08.00   1.1
PPE     71.10 328 ePc    07 08.00   0.8
ATX     71.15  64 iP     07 06.30  -1.4
HOF     71.19 340 eP     07 07.20  -0.5
        1.4s  1060.00nm            6.6mb
                   e      16 20.00
NSLM    71.26  61 iP     07 08.40   0.1
ETA     71.33 352 iPd    07 09.50   1.1
        1.4s  1370.00nm            6.7mb
TAB     71.39 311 iP+    07 11.00   1.8
BNS     71.41 343 eP     07 08.40  -0.5
        1.5s     0 90nm            3.5mb X
IR7     71.48 307 iPc    07 10.70   0.9
MRG     71.63  46 iP     07 09.00  -1.4
                   i      09 47.30
PSZ     71.66 334 e(P)   07 12.00   1.4
VRI     71.68 328 ePc    07 12.00   1.3
HYB     71.72 274 ePc    07 08.70  -2.6
        1.0s   200.00nm            6.0mb
                   e      07 33.00
ENN     71.80 344 iPc    07 10.90  -0.3
        1.2s   784.00nm            6.5mb
                   e      07 17.50
                   epP    07 35.50  95kmX
                   ePP    09 53.50
                   e      10 25.50
                   e      12 00.00
                   eP'P'  34 41.00
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CJR     71.81 331 eP     07 10.80  -0.6
ECP     71.85 352 iPd    07 11.30  -0.2
        1.3s  2100.00nm            6.9mb
CFR     71.87 327 ePc    07 13.00   1.3
TNS     71.90 342 iPc    07 12.80   0.8
                   ePP    10 27.00
                   ePPP   12 09.00
                   eS     17 23.00
                   eSS    21 36.00
                   SSS    25 17.00
BRD     71.91 328 eP     07 15.00   3.0X
GRF     71.91 340 iPc    07 13.10   1.1
                   e      07 15.50
                   eS     16 33.00
KHC     71.97 338 iPc    07 12.50   0.1
        1.1s   804.00nm            6.6mb
      Z  18s     37.20um           6.7Msz
      N  18s     22.10um
      E  16s     12.60um
                   e      07 37.50
                   e      12 12.30
UCC     72.00 345 Pd+    07 13.30   0.8
                   PcP    07 29.30
                   pPP    10 27.00
                   S      16 34.00
                   e      17 09.00
PWLA    72.06  54 iP     07 11.70  -1.4
WET     72.10 339 iPc    07 13.00  -0.1
      Z  15s     36.10um           6.8MszX
                   e      10 28.00
                   e      12 12.00
                   eS     16 32.00
                   e      17 54.00
GRB1    72.11 340 iPc    07 13.10  -0.1
      Z  19s     36.00um           6.7Msz
                   e      07 15.50
                   eS     16 33.00
BGG     72.11 343 iPc    07 13.70   0.6
        1.3s     0.50nm            3.3mb X
VAL     72.35 355 P      07 15.00   0.6
                   SS     21 16.00
ISR     72.40 328 ePc    07 16.00   1.0
TLB     72.45 327 ePc    07 16.00   0.9
PSI     72.56 248 iPc    07 12.70  -3.5X
        0.7s   226.00nm            6.2mb
DOU     72.65 345 Pd     07 15.50  -0.8
                   i      07 17.50
                   pP     07 41.00  99kmX
                   PP     10 09.00
                   pPP    10 34.00
                   S      16 37.00
                   ScS    17 06.00
                   SP     17 20.00
                   P'P'   34 43.80
CMP     72.72 329 iPd    07 23.00   6.2X
DEV     72.76 331 ePd    07 22.00   5.0X
COZ     72.87 330 iPd    07 19.00   1.1
STJ     73.07  23 ePc    07 17.80  -0.9
        1.5s  3110.00nm            7.0mb
STU     73.17 341 ePc+   07 19.00  -0.4
        1.0s   440.00nm            6.3mb
      Z  20s     36.20um           6.7Msz
PSN     73.22 326 iPd    07 22.00   2.4
GWF     73.25 342 iPc    07 19.70  -0.2
BUC1    73.27 328 iPc    07 21.00   1.0
FUR     73.36 340 eP     07 20.30  -0.2
        1.6s  1600.00nm            6.7mb
      Z  18s     40.00um           6.7Msz
                   e      07 44.00
                   e      10 40.00
                   e      12 30.00
                   e      17 23.00
                   e      18 02.00
KAS     73.43 321 eP     07 22.50   1.4
BUH     73.44 342 eP     07 17.80  -3.2X
CGN     73.45 328 ePc    07 22.00   1.0
BHG     73.46 338 eP     07 20.80  -0.3
        1.7s  1520.00nm            6.7mb
POO     73.46 279 iPc    07 21.50   0.0
DRA     73.49 330 eP     07 23.00   1.8
BLA     73.50  47 iP+    07 20.20  -1.3
      Z  19s     73.80um           7.0Msz
                   iS     17 21.60
CLO     73.53 331 eP     07 21.00  -0.5
PVC     73.54 173 iPc    07 20.50  -1.2
                   iS     17 27.50
CDF     73.86 342 eP     07 23.00  -0.5
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17d 11h

	1.2s	945.00nm		6.6mb		MFF	76.73	347	eP	07	39.20	-0.5				ipP	08	35.40	85kmX
GAP	74.06	339	eP	07	24.50	-0.1			1.3s	724.00nm		6.5mb		GIB	82.46	334	eP	08	11.00	0.3
	1.0s	594.00nm		6.5mb		MZF	76.74	345	iPc	07	39.60	-0.2			1.0s	130.00nm		5.8mb		
ECH	74.07	342	iPc	07	24.00	-0.6			1.4s	858.00nm		6.5mb		TPT	82.52	131	iP	08	13.30	2.3
MSL	74.16	312	iPc	07	26.00	0.7		DST	76.76	324	eP	07	38.70	-1.4		1.3s	2420.00nm		7.0mb		
			iPcP	07	47.00			ALT	76.76	323	iP	07	41.50	1.4			ipP	08	36.00	85kmX
			iPPP	10	49.00			SKO	76.78	330	iPc	07	40.70	0.7		ASPA	82.56	205	eP	08	09.00	-2.2
			i	12	31.00						eS	18	07.00			VAH	82.74	131	iP	08	14.20	2.0
			iS	16	54.50			LSF	76.86	346	eP	07	40.10	-0.3			1.3s	1610.00nm		6.8mb		
			iPS	17	29.50				1.4s	674.00nm		6.4mb					ipP	08	37.00	85kmX
			iSS	21	26.50			VAY	77.06	329	iP	07	41.70	0.1		ERC	82.75	336	eP	08	12.50	0.5
KER	74.18	308	eP	07	27.00	1.4		EZN	77.30	326	iPc	07	42.60	-0.3		RUV	82.80	131	iP	08	14.70	2.2
SLE	74.27	341	ePd	07	24.40	-1.4		PRT	77.50	338	eP	07	47.00	3.1X			1.3s	2100.00nm		6.9mb		
HAU	74.41	343	eP	07	26.00	-0.6					ipP	08	01.00	49kmX				ipP	08	37.60	86kmX
	1.2s	765.00nm		6.5mb							iS	17	32.50			MEI	82.95	333	eP	08	13.50	0.4
BAF	74.46	342	iPc	07	26.50	-0.5		FIR	77.56	338	eP	07	46.50	2.2		PTO	83.00	352	iPc	08	09.00	-4.3X
PPI	74.47	245	ePc	07	27.00	-0.3					iSKS	17	32.00						iS	18	26.00	
BSF	74.50	342	eP	07	26.60	-0.6					iS	18	10.00			RAR	83.55	144	P	08	17.00	0.8
ZUL	74.56	341	ePd	07	26.80	-0.7		RJF	77.78	346	iPc	07	45.30	-0.3					S	19	12.00	
NDF	74.58	164	eP	07	29.00	1.2			1.4s	472.00nm		6.3mb				AFR	83.90	134	iP	08	20.00	2.0
SAX	74.61	341	ePd	07	27.50	-0.6		PRK	77.85	326	eP	07	45.00	-0.9			1.3s	4500.00nm		7.3mb		
OGA	74.65	339	iPc	07	28.30	0.1		NOU	77.97	175	iPc	07	48.30	1.6				ipP	08	42.90	85kmX
FLN	74.65	348	iPc	07	27.00	-0.9					iS	18	18.50			PPT	84.01	134	iP	08	20.60	2.0
	1.2s	693.00nm		6.5mb		BCK	78.03	322	iP	07	47.50	0.4			1.3s	2070.00nm		7.0mb		
LJU	74.69	337	eP	07	29.40	1.2		CAF	78.08	345	eP	07	47.50	0.3				ipP	08	43.50	85kmX
			e	10	44.00				1.3s	739.00nm		6.5mb			PAE	84.10	134	iP	08	21.10	2.1
			eS	17	42.00			KZN	78.23	330	eP	07	45.50	-2.6			1.3s	2270.00nm		7.0mb		
LDF	74.77	347	eP	07	27.50	-1.1		LFF	78.25	346	eP	07	48.20	0.1				ipP	08	43.90	85kmX
	1.3s	634.00nm		6.4mb					1.2s	783.00nm		6.5mb			TVO	84.34	133	iP	08	22.70	2.4
JMB	74.82	327	eP	07	32.00	3.0X		IZM	78.30	325	iP	07	49.00	0.5			1.3s	1100.00nm		6.7mb		
TRT	74.98	230	iPd	07	27.80	-2.4		POI	78.34	337	eP	07	50.00	1.4				ipP	08	45.50	85kmX
	0.8s	944.00nm		6.8mb		LPO	78.44	346	eP	07	49.20	0.0		MBL	84.37	218	eP	08	20.00	-0.3
VUN	74.99	163	ePc	07	30.80	0.7			1.2s	873.00nm		6.6mb		HLW	84.58	318	iP+	08	22.00	0.5
	1.4s	735.00nm		6.4mb		AQU	78.45	336	eP	07	50.20	0.9					eS	19	30.00	
CEY	75.01	337	eP	07	30.20	0.1			1.0s	0.36nm		3.3mb X		SOR	84.70	57	iPc	08	22.00	-0.2
			i	07	31.80			ISQ	78.46	201	eP	07	47.00	-2.5			6.0s	********nm		7.2mb X		
			eS	17	43.40			MNS	78.58	337	eP	07	49.50	-0.4					eS	18	38.00	
DMK	75.03	326	eP	07	30.30	0.1			1.2s	670.00nm		6.5mb		ALI	84.88	346	iP-	08	24.00	1.2
LLS	75.04	341	ePd	07	30.00	-0.5		FRF	78.66	341	eP	07	50.20	-0.2					eS	19	14.00	
GRR	75.06	348	iPc	07	29.60	-0.7			1.4s	594.00nm		6.3mb		CRT	86.43	348	iPc	08	33.60	2.9X
	1.2s	1050.00nm		6.6mb		CIN	78.75	324	iPd	07	50.00	-0.9		COO	86.46	188	eP	08	30.00	-0.6
SVA	75.09	163	ePc	07	31.90	1.2		FOG	78.80	334	eP	07	53.70	2.6		ALM	86.63	347	iPc	08	32.50	1.0
TRI	75.18	337	iPc	07	31.10	0.1		LRG	78.82	342	eP	07	51.30	0.1			2.1s	5.50nm		4.3mb X		
			e	11	39.60				1.2s	720.00nm		6.5mb			N	26s	1.00um				
			e	12	33.10			DUI	78.86	335	eP	07	51.50	0.0		E	18s	0.90um				
			iS	17	04.00			WB2	78.88	206	iPc	07	49.10	-2.7					iPP	12	28.60	
			iSP	17	40.00						i	07	52.20						iPPP	13	09.70	
			iSS	22	32.00						iPcP	09	14.00						iS	19	30.00	
			iSSS	25	47.00						i	17	41.70			WBN	86.86	211	eP	08	31.00	-1.6
ISK	75.30	325	iP	07	32.40	0.7		ELL	78.90	322	iP	07	51.30	-0.7		NAU	87.21	222	iPd	08	34.20	-0.1
VDL	75.32	340	ePd	07	32.00	-0.1		LMR	78.91	342	eP	07	51.70	0.0		SFS	87.43	350	iPc	08	37.00	1.6
HRT	75.32	324	iP	07	33.00	1.1			1.3s	761.00nm		6.5mb						i	08	46.00		
IST	75.34	325	iPc	07	32.20	0.3		BRT	78.93	333	eP	07	51.00	-0.8					i	09	21.00	
GBA	75.43	273	Pc	07	29.40	-3.4X		IIC	79.02	71	iP	07	54.80	1.7					iPP	11	18.00	
	1.2s	259.00nm		6.0mb		YER	79.11	323	iPc	07	52.70	-0.3					iPPP	14	30.00	
LPF	75.44	348	iPc	07	31.70	-0.7		RMP	79.13	337	iPd	07	53.50	0.5					iSKS	19	10.00	
	1.3s	972.00nm		6.6mb							iPP	10	53.00						iS	19	36.00	
DIM	75.50	328	iPd	07	34.00	1.1					iS	17	56.00						iPS	20	24.00	
LOR	75.52	344	iPc	07	32.10	-0.9					iPS	18	40.00						iSP	22	30.00	
	1.2s	693.00nm		6.5mb		RDP	79.17	337	eP	07	54.50	1.2							iSS	27	50.00	
SHI	75.62	302	eP	07	32.00	-2.0		CVF	79.21	340	iPc	07	53.00	-0.4					iSSS	37	00.00	
VTS	75.70	329	iP	07	33.00	-0.9			1.2s	720.00nm		6.5mb		CMS	87.99	193	iPd	08	39.00	1.1
PLD	75.71	328	iPc	07	34.00	-0.1		LCI	79.25	332	eP	07	53.00	-0.6		RIV	89.74	188	eP	08	48.00	1.9
SSF	75.78	345	iPc	07	33.80	-0.6		TAC	79.35	71	iP	08	09.00	14.2X		MEK	89.84	217	eP	08	44.00	-2.8
	1.3s	396.00nm		6.2mb							eS	18	43.00			YOU	90.45	191	iPd	08	50.40	1.0
LBF	75.78	344	eP	07	33.60	-0.9		IIM	79.42	71	iP	07	56.40	1.2		CRZ	90.45	171	eP	08	52.00	2.6
	1.4s	472.00nm		6.2mb		IIP	79.55	71	iP	07	56.80	0.8					iPcP	09	15.00	
TMA	75.80	341	ePd	07	34.00	-0.7		SGO	79.71	334	eP	07	56.00	0.0		CAN	91.42	190	Pc	08	55.20	1.3
KDZ	75.94	328	iPd	07	35.00	-0.4		ATH	79.81	327	iPc	07	57.00	0.4		WAM	92.29	190	iPc	08	59.50	1.7
SAL	75.96	339	eP	07	35.00	-0.4					iS	17	42.00			TOO	94.03	193	eP	09	06.00	0.2
	1.2s	1400.00nm		6.8mb		HRI	79.85	316	eP	07	57.00	-0.1		KRP	94.20	169	P	09	08.30	1.8
MMK	76.02	341	ePd	07	35.80	-0.3		ORI	79.90	333	eP	08	00.00	2.9					S	20	18.00	
AVF	76.06	345	eP	07	35.30	-0.7		III	80.05	72	iP	07	57.20	-1.3					sS	20	56.00	
	1.3s	803.00nm		6.5mb		IIT	80.14	71	iP	08	00.00	1.0		RKT	95.31	124	iP	09	14.00	2.0
DIX	76.09	342	ePd	07	36.40	-0.1		MMN	80.17	334	eP	08	01.00	2.5			1.2s	105.00nm		6.2mb		
SMF	76.13	344	iPc	07	35.60	-0.8		EPF	80.18	346	eP	07	58.10	-0.5		MUN	95.56	217	eP	09	12.00	-0.9
	1.4s	735.00nm		6.4mb					1.4s	704.00nm		6.4mb		ARO	95.70	300	eP+	09	15.30	1.0
KOU	76.15	177	iPc	07	38.00	1.4		CSI	80.20	333	eP	08	01.50	2.7		KSU	95.91	300	ePd	09	17.30	2.2
EDC	76.34	325	eP	07	37.90	0.3		ROI	80.32	333	eP	08	01.80	2.4		NWAO	96.08	216	eP	09	14.00	-1.3
KNA	76.40	212	iPd	07	38.10	-0.1		VLS	80.54	330	eP	07	59.50	-1.1		SJG	96.17	45	eP	09	15.50	-0.8
ORO	76.42	341	iPc	07	40.00	1.8		ACI	80.62	333	eP	08	02.40	1.4			1.0s	125.00nm		6.4mb		
MMB	76.48	329	eP	07	38.00	-0.4		CZI	80.77	333	eP	08	02.50	0.8		Z	20s	44.00um		6.9Msz		
CTA	76.71	195	iPc	07	36.90	-2.9		JER	81.39	316	eP	08	05.80	0.6					e	13	08.00	
	0.8s	79.50nm		5.7mb		NPS	81.70	325	eP	08	04.00	-2.7					iS	20	28.00	
			iS	17	19.00		DOR	81.82	316	eP	08	09.00	1.6		GBR	96.21	300	eP	09	18.90	2.3
TCF	76.72	345	iPc	07	39.40	-0.3		PMO	82.42	131	iP	08	12.60	2.1		MNG	96.85	169	P	09	17.00	-1.6
	1.3s	475.00nm		6.3mb					1.3s	1500.00nm		6.8mb		WEL	97.44	170	P	09	20.20	-1.0

17d 11h

			PP	13	25.00		SEK	137.14	290	iPKPc	15	03.50	-8.1X	GLB	1.76	73	iPc	22	34.46	0.5
			S	19	48.00					i	18	35.50		KAIM	1.78	125	iPc	22	33.89	-0.3
			SKS	20	43.00		VIR	137.35	291	iPKPc	15	04.00	-7.9X	BRNE	1.97	239	iPd	22	36.74	-0.3
SNZO	97.46	170	e(P)	09	20.50	-0.7	CEN	137.68	76	ePKP	15	02.00	-10.4X	BRSE	2.10	234	iPd	22	38.42	-0.5
	1.6s	378.00nm			6.7mb		PEL	137.80	80	iPKPd	15	03.50	-9.0X	BRLK	2.15	237	iPd	22	39.04	-0.5
AAE	99.83	302	eP	09	34.00	0.7				ipPP	15	12.40		NNL	2.18	246	iPd	22	40.06	0.1
MSZ	100.30	175	ePdiff	09	37.00	2.8X	CFA	137.98	76	PKPd	15	02.00	-10.9X	PAX	2.18	23	iPd	22	41.20	1.2
			PP	13	16.00					PKS	18	10.00		BRNW	2.23	241	iPd	22	40.65	0.0
FDF	101.18	42	ePdiff	09	40.00	1.2				PPS	30	40.00		WAX	2.26	102	iPd	22	41.90	0.8
TOV	102.10	52	ePdiff	09	43.70	0.7				SSP	36	54.00		BRSW	2.29	236	iPd	22	40.95	-0.6
SDV	102.53	53	ePdiff	09	47.00	1.9	TACH	138.04	80	iPKP	15	03.80	-9.1X	SPU	2.31	277	iPd	22	41.50	-0.4
CAR	102.70	49	iPdiff	09	46.10	0.4				i	15	14.00		SNH	2.35	108	iPc	22	41.80	-0.6
	1.4s	242.00nm			6.7mb					i	15	37.40		BALM	2.42	86	iPc	22	43.28	-0.2
CHN	103.63	59	iPdiff	09	52.00	2.0	PCH	138.25	80	iPKPc	15	03.30	-10.1X	CNPM	2.44	235	iPd	22	42.93	-0.7
FUO	104.10	57	ePdiff	09	53.00	0.8				i	15	13.60		SDEM	2.51	234	iPd	22	44.05	-0.6
BOG	104.68	58	iPdiff	09	56.50	1.7	CHCH	138.40	80	iPKPd	15	03.50	-10.1X	RDT	2.53	263	iPd	22	44.17	-0.8
PSO	106.05	63	ePdiff	10	03.00	2.0				i	15	13.90		SLV	2.61	236	iPd	22	45.23	-0.8
NAI	109.73	299	ePdiff	10	20.00	2.9X				i	16	38.00		BLR	2.62	15	iPd	22	47.40	1.1
BNG	112.59	319	ePdiff	10	30.00	0.3				e	20	26.70		RED	2.74	261	iP	22	47.00	-1.0
	0.9s	10.00nm					BLF	138.53	291	iPKPc	15	07.70	-6.4X	WRG	2.78	108	ePc	22	47.65	-0.8
KIC	116.94	344	ePKP	14	31.20	-1.9	LQT	138.56	80	iPKP	15	04.30	-9.7X	YAH	2.81	100	iPc	22	48.57	-0.5
			e	15	40.50					i	15	15.00		CTGM	2.92	88	iPc	22	50.28	-0.2
NNA	117.50	70	iPKP	14	34.00	-0.2	TCA	139.75	72	ePKPc	15	07.50	-8.6X	GYO	3.00	104	iPc	22	51.15	-0.5
	0.5s	38.70nm					RFA	140.24	79	ePKPc	15	08.00	-8.9X	CHX	3.20	104	iPc	22	53.83	-0.6
HUA	118.34	68	iPKPd	14	38.00	1.7	VAO	141.13	44	ePKP	15	11.70	-7.1X	GKC	3.23	355	iPd	22	56.10	1.3
AVY	118.66	279	ePKPc	14	36.50	0.0				e	15	13.70		LVY	3.37	345	iPc	22	57.60	0.7
NPA	120.17	289	ePKP	14	40.00	0.8				e	15	20.20		HDA	3.45	3	iPc	22	58.30	0.4
			e	15	04.00					e	15	37.60		PCA	3.60	101	iPc	22	59.02	-1.1
			e	16	29.00		GRM	141.60	287	iPKPc	15	14.80	-4.6X	NEA	3.70	348	iPc	23	01.50	0.0
ARE	124.04	67	ePKP	14	48.00	1.0		0.7s	140.00nm					RDS	3.88	355	iP	23	03.95	-0.1
TET	124.04	293	iPKP	14	48.00	1.4		Z 20s	9.22um			6.5Msz		BCPM	3.94	102	ePc	23	03.27	-1.6
	1.5s	0.51nm					BMA	141.91	40	ePKP	15	15.20	-5.0X	COL	3.94	357	iPc	23	04.80	-0.1
			ipP	15	10.00					e	15	17.00		FBA	3.94	357	iP	23	04.70	-0.2
			e	16	57.00					e	15	20.40		GLM	4.03	360	iPc	23	05.80	-0.4
			e	22	25.00					e	18	27.90		SVW	4.04	275	iPd	23	04.38	-2.0
			e	24	35.00					e	18	35.80		PNL	4.15	105	ePc	23	05.42	-2.5
			i	28	09.00		RDJ	142.43	39	iPKP+	15	14.40	-6.6X	KDC	4.18	222	iPd	23	06.60	-1.7
MTD	125.60	295	iPKPc	14	47.00	-2.8X	MAW	142.60	219	iPKPc	15	10.10	-9.8X	HQN	4.48	106	P	23	10.45	-2.1
			ipP	15	15.00		SUR	143.92	294	iPKPd	15	22.20	-1.4	TTA	4.55	299	iPc	23	11.60	-2.1
			iS	28	13.00			1.2s	438.00nm					FYU	5.68	8	eP	23	29.20	-0.3
LPB	125.84	64	PKP	14	51.00	0.3		Z 20s	36.90um			7.1Msz		IMA	5.85	334	iPc	23	30.50	-1.5
	1.0s	260.00nm					SPA	145.67	180	ePKPd	15	22.90	-2.5	SIT	7.33	117	ePd	23	49.50	-3.1
KRI	126.64	297	iPKPc	14	51.00	-0.8		1.0s	440.00nm					SDN	8.96	237	eP	24	12.10	-3.2
			ipP	15	16.00			Z 21s	28.00um			7.0Msz		ANM	9.01	301	eP	24	13.00	-3.0
			iS	28	14.00		LPA	146.04	69	PKPd+	15	26.40	-0.4	INK	9.41	33	eP	24	18.00	-3.5
BUL	129.94	296	iPKPc	14	59.00	1.0		Z 21s	20.10um			6.9Msz		BRW	11.03	344	eP	24	40.10	-3.5
	1.1s	155.00nm								ipPKP	15	52.00		ILT	15.06	311	iPc	25	34.20	-2.8
	Z 19s	18.80um			6.8Msz		VBA	146.21	77	iPKPd	15	24.20	-2.8X		1.2s	930.00nm			6.0mb	
	N 19s	12.50um								i	16	28.50			Z 14s	382.00um			6.6MszX	
	E 19s	5.56um								e	17	06.00			N 14s	160.00um				
			ipP	15	23.00		SYO	151.33	220	iPKP	15	33.90	0.0		E 14s	358.00um				
			iPP	18	15.00		NVL	160.07	210	iPKPc	15	45.00	-0.2				iS	28	22.00	
SOB1	130.30	29	ePKP	14	39.90	-18.8X		2.0s	420.00nm					PHC	15.11	124	eP	25	36.00	-1.8
			e	14	59.00					ipPKP	16	19.00			1.5s	2020.00nm			6.2mb	
			e	17	07.10					i	16	23.00		YKA	15.48	70	eP	25	41.50	-0.9
			e	18	15.60					isPKP	16	29.00		RSNT	15.48	70	iPc	25	40.50	-2.0
ITR	130.52	26	ePKP	14	41.30	-17.8X				iPP	20	09.00		YKC	15.54	70	ePc	25	40.60	-2.7
			i	14	56.90			S.D. = 1.2	on 530 of 591 obs.						0.5s	381.00nm			5.9mb	
			i	15	18.70									ED8	15.89	125	P	25	50.00	2.2
			i	18	16.00		& SEP 07, 1983 19h 22m 05.04s							CBB	16.48	122	P	25	55.50	0.2
ANT	130.57	71	iPKP	14	59.80	0.9	60.978 N 147.315 W							ALB	17.29	123	P	26	09.00	3.5
YJA	131.89	65	ePKP	14	45.00	-17.1X	DEPTH = 30.2km (geophysicist)							MBC	18.05	21	eP	26	13.00	-1.8
MIR	132.32	210	iPKP	15	00.00	-0.9	6.3mb (112 obs.) 6.2Msz (39 obs.)							HN8	18.23	119	P	26	20.00	2.9
	2.0s	30.00nm					SOUTHERN ALASKA (2)							PGC	18.34	122	eP	26	18.00	-0.5
			epPKP	15	25.00		<AGS>. Slight domage (VI) at							ADK	18.47	254	eP	26	15.70	-4.2
CNG	133.09	287	iPKPd	15	04.00	0.3	Voldez. Felt (V) at Anchoroge,										i	26	17.80	
	1.0s	160.00nm					Chugiak, Copper Center, Cooper							MCW	18.58	120	eP	26	21.80	0.4
			i(pP)	15	27.00		Londing, Homer, Moose Poss,							VGZ	18.58	122	P	26	21.50	0.1
			e	17	35.00		Palmer, Soldotna, Sutton,							GMW	19.49	123	eP	26	32.10	-0.1
			e	17	51.00		Wosilla and Willow.							PNT	19.49	114	eP	26	32.00	-0.3
SLA	134.00	67	e(PKP)	15	06.00	0.3									1.4s	268.00nm			5.3mb	
BAO	134.03	41	PKP	14	52.10	-13.8X	CFI	0.30	313	iPc	22	12.40	-0.1	EDM	19.82	98	eP	26	34.20	-1.5
JOZ	134.07	287	iPKPc	15	04.80	-0.7	VLZ	0.50	72	iPd	22	15.27	-0.2	BFW	20.17	125	eP	26	39.70	0.2
			i	15	28.30		PWL	0.51	257	iPc	22	14.95	-0.8	LON	20.52	122	iPc	26	43.60	0.4
SLR	134.72	292	iPKPc	15	02.00	-5.0X	KNK	0.70	309	iPc	22	18.52	-0.3	SHW	20.80	124	eP	26	46.70	0.6
	1.2s	350.00nm					KLU	0.85	52	iPc	22	20.52	-0.4	NEW	21.38	113	iPd	26	52.30	0.4
	Z 20s	27.70um			7.0Msz		SCM	0.86	360	iPc	22	21.00	0.0		1.0s	460.00nm			5.8mb	
			i	15	08.20		CVA	0.88	119	iPc	22	22.05	0.8				e	27	06.00	
EVA	134.92	290	e(PKP)	15	01.50	-5.9X	SML	0.97	330	iPc	22	22.62	0.1	COR	21.71	128	iPd	26	56.00	0.9
			i	15	06.50		PMR	1.07	306	iPc	22	24.10	0.1	RXF	21.85	109	iP-	26	56.80	0.1
BPI	135.21	292	iPKPc	15	02.60	-5.4X	PMS	1.12	285	iPc	22	25.00	0.2				eS	33	50.00	
			i	18	30.50		SGAM	1.14	114	iPc	22	26.10	1.1	PNO	22.71	120	iPc	27	06.00	0.9
TLL	135.47	77	ePKP	14	56.50	-11.9X	TOA	1.26	25	iPd	22	27.63	1.0	FFC	24.50	84	eP	27	21.00	-1.3
			i	15	30.40		BMRM	1.33	90	iPc	22	27.98	0.2		1.1s	250.00nm			5.7mb	
			iPPP	23	32.00		SEW	1.37	231	iPd	22	28.00	-0.2	FHC	24.74	134	ePd	27	26.50	1.7
			eSKSP	29	55.00		PWA	1.41	300	iPc	22	29.35	0.6	LGBM	24.91	131	eP	27	28.70	2.0
CYA	136.84	71	ePKPd	14	58.00	-12.8X	MID	1.63	162	iPc	22	32.25	0.3	LRM	25.33	111	iPd	27	30.70	0.1

07d 19h

WDC 25.45 132 iPd 27 32.40 0.9
eS 32 03.50
RMT 25.99 133 eP 27 37.60 1.1
FCC 26.20 71 eP 27 37.00 -1.3
IMW 27.50 112 iPc 27 51.50 0.8
SEY 27.53 301 iPc 27 50.50 0.1
7.5s 2700.00nm 6.0mb X
Z 16s 149.00um 6.7MszX
N 16s 65.00um
E 16s 52.00um
isP 28 04.50
iPPP 28 48.50
iS 32 27.50
WCN 27.59 129 iPd 27 52.10 0.7
BMN 27.62 124 iP 27 51.90 0.3
2.0s 696.00nm 6.0mb
i 28 03.90
BKS 27.96 134 iPd 27 55.00 0.5
1.1s 510.00nm 6.1mb
Z 20s 25.00um 5.8Msz
N 20s 25.00um
E 20s 52.00um
epP 28 06.50 44kmX
esP 28 12.00
ePcP 31 07.50
epPcP 31 20.50
eS 32 43.00
esS 33 03.00
eSS 33 52.00
BEI 28.53 115 eP 28 00.30 0.4
JAS 28.54 132 iPd 28 00.20 0.4
ePcP 31 10.00
eScP 35 08.00
MHC 28.65 134 ePd 28 01.00 0.1
ARN 28.68 134 ePc 28 01.40 0.3
EUR 28.93 124 iP 28 03.00 -0.6
MNA 28.97 128 ePd 28 04.30 0.5
BDW 28.99 112 iPd 28 03.90 -0.2
SAO 29.23 134 ePd 28 05.20 -0.8
ALE 29.41 15 eP 28 06.00 -1.2
0.7s 153.00nm 5.9mb
MGD 29.46 296 ePc 28 05.00 -2.8
1.1s 80.00nm 5.4mb
Z 20s 93.00um 6.4Msz
N 20s 20.00um
E 17s 87.00um
ipP 28 17.00 46kmX
isP 28 20.00
iPP 29 05.00
iPPP 29 08.00
iS 32 59.00
iSSS 34 45.00
DUG 29.65 119 ePd 28 09.80 -0.1
FRI 29.65 131 ePd 28 09.70 0.0
PET 29.69 279 eP 28 06.00 -3.9
2.0s 660.00nm 6.1mb
Z 20s 51.00um 6.2Msz
N 20s 47.00um
E 20s 72.00um
ePP 29 05.00
eS 32 58.00
eScS 38 45.00
PRI 30.07 134 ePd 28 14.40 0.8
ePcP 31 14 00
PHAM 30.44 133 ePd 28 17.10 0.4
RSSD 30.53 104 iP 28 17.60 -0.2
e 28 19.10
RSON 30.83 85 ePd 28 18.00 -2.1
WKTM 31.18 131 iPc 28 23.50 0.1
SCCM 31.32 134 eP 28 24.70 0.1
MSU 31.33 120 iPc 28 25.50 0.7
MMU 31.96 119 iPd 28 30.60 0.1
TIK 32.37 324 iPc 28 30.00 -3.3
0.8s 140.00nm 5.9mb
Z 15s 88.00um 6.6MszX
N 16s 24.00um
E 15s 64.00um
ePP 29 41.00
ePPP 30 00.00
ePcP 31 16.00
eS 33 40.00
eSSS 35 55.00
eScS 39 00.00
SKR 32.40 278 iPd 28 30.00 -3.8
1.0s 130.00nm 5.8mb
Z 19s 25.70um 5.9Msz
N 18s 35.90um
E 18s 36.70um
epP 28 40.50 38kmX
ePP 29 34.20
ePcP 31 17.20
iS 33 41.00
iSS 35 36.00
SDW 32.74 130 iPd 28 37.40 0.3
PAS 32.75 132 eP 28 37.00 0.0
eS 33 56.00
GOL 33.35 110 iP 28 42.20 -0.3
1.0s 100.00nm 5.7mb
Z 18s 56.30um 6.3Msz
i 28 55.20
GLD 33.38 110 iP 28 43.10 0.4
1.0s 370.00nm 6.3mb
Z 18s 89.20um 6.5Msz
i 28 55.00
FRB 34.49 50 ePd 28 50.00 -1.8
1.1s 811.00nm 6.6mb
LHC 34.61 84 eP 28 51.50 -1.5
1.4s 196.00nm 5.8mb
GLA 34.98 128 iP 28 57.00 0.7
i 29 10.00
ALO 36.80 116 iPd 29 12.00 0.2
1.0s 223.00nm 6.0mb
Z 20s 42.50um 6.2Msz
e 29 24.50
YAK 37.06 309 iPc 29 10.70 -2.8
1.2s 180.00nm 5.8mb
Z 10s 82.80um 6.8MszX
N 12s 37.20um
iS 34 49.00
iScS 39 20.60
KHE 37.92 353 iPc 29 28.00 7.5
1.7s 1100.00nm 6.4mb
Z 16s 28.00um 6.2MszX
N 16s 17.00um
E 16s 9.70um
ePP 30 54.00
iS 35 09.00
DAG 38.78 17 iPc 29 26.80 -1.0
0.6s 113.00nm 5.8mb
i 31 06.00
KBS 39.80 6 iP 29 36.80 0.6
OPA 39.96 196 eP 29 36.90 -1.3
KUR 40.15 277 iPd 29 38.00 -1.4
0.8s 160.00nm 5.8mb
Z 16s 31.50um 6.3MszX
N 16s 54.50um
ePP 31 09.00
iS 35 42.00
eSS 38 31.00
HON 40.33 196 iP 29 40.30 -0.8
OCO 40.40 106 eP 29 41.30 -0.4
SCH 40.68 61 ePd 29 42.20 -1.5
1.0s 410.00nm 6.1mb
TUL 40.88 104 iPd- 29 44.80 -0.7
1.0s 805.00nm 6.4mb
Z 18s 27.00um 6.2Msz
RLO 41.03 103 iPd 29 45.10 -1.7
FVM 41.79 97 iPc 29 51.70 -1.3
ELF 42.23 84 P 29 56.10 -0.5
UTO 42.28 87 iPd 29 56.50 -0.5
DLA 42.35 84 P 29 57.90 0.3
LDN 42.41 84 P 29 57.50 -0.5
BHO 42.56 104 iPd 29 58.70 -0.7
OLY 43.27 100 ePd 30 02.80 -2.3
OTT 43.28 77 eP 30 04.00 -1.1
JCT 43.53 112 e(P) 30 06.00 -1.4
Z 18s 56.70um 6.5Msz
DHN 44.01 82 eP 30 09.80 -1.3
NRI 44.06 335 iPc 30 08.20 -2.9
1.4s 190.00nm 5.7mb
Z 20s 39.00um 6.3Msz
N 20s 29.00um
E 20s 10.50um
ipP 30 17.50 31kmX
ePP 31 52.00
ePPP 32 31.00
iS 36 37.00
eScS 39 57.00
MNT 44.20 76 iPd 30 10.70 -1.8
1.0s 280.00nm 6.0mb
PTN 44.24 77 eP 30 10.80 -2.1
RSNY 44.48 77 eP 30 13.30 -1.5
e 30 25.00
ATX 44.55 111 iP 30 15.30 -0.3
pP 30 28.60 50kmX
S 36 53.90
APH 45.02 78 eP 30 17.60 -1.7
PWLA 45.33 97 iPd 30 20.70 -1.1
MRG 45.60 86 iPc 30 22.80 -1.1
e 44 47.00
BOD 45.64 312 iPc 30 21.90 -2.0
1.3s 370.00nm 6.1mb
HKT 45.79 109 iP 30 25.60 0.2
pP 30 37.40 42kmX
TUP 46.00 306 ePd 30 25.20 -1.5
1.7s 70.00nm 5.3mb
RSCP 46.04 94 iP 30 25.70 -1.7
e 30 36.00
TKL 46.87 93 iPd 30 33.00 -0.9
NAV 47.01 89 iPd 30 33.80 -1.2
GPD 47.19 80 iPc 30 34.80 -1.6
BLA 47.27 88 iPd 30 36.00 -1.1
1.1s 709.00nm 6.6mb
epP 30 52.00 62kmX
iS 37 29.60
GMTN 47.43 80 iP 30 37.40 -0.8
CVL 47.62 86 ePc 30 38.80 -1.0
NA12 47.90 86 ePc 30 40.90 -1.1
AKU 48.16 26 iP 30 43.80 0.2
1.4s 1230.00nm 6.7mb
REY 48.65 28 iP 30 46.80 -0.5
PRM 48.83 93 ePd 30 48.30 -0.9
JSC 49.21 92 eP 30 51.00 -1.1
TRO 49.31 6 iP 30 51.00 -1.4
VLA 49.33 288 iPc 30 51.00 -1.9
Z 14s 112.00um 7.0MszX
N 14s 30.50um
E 14s 62.60um
ePcP 32 11.00
ePP 32 42.00
iS 37 48.00
iScS 40 38.00
eSS 41 23.00
KEV 49.49 3 iP 30 51.80 -2.0
0.8s 268.00nm 6.3mb
Z 24s 21.60um 6.1MszX
i 31 00.90
eS 37 56.00
SGS 50.45 92 ePd 31 00.80 -0.8
TSK 50.83 276 eP 31 01.50 -3.0
KIR 51.17 6 iP 31 04.60 -2.1
TOK 51.42 275 eP 31 11.00 2.1
eS 38 29.00
DDR 51.45 276 eP 31 06.80 -2.5
MAT 51.49 277 iPc 31 07.00 -2.5
1.2s 273.00nm 6.1mb
Z 20s 21.60um 6.2Msz
KYS 51.63 275 eP 31 06.80 -3.7
SRY 51.72 276 eP 31 07.90 -3.3
CN2 51.74 293 iPd 31 08.40 -2.9
PP 33 05.00
PPP 34 07.00
S 38 20.00
SOD 51.88 3 iP 31 09.80 -2.2
e 01 46.00
STJ 51.97 59 eP 31 10.50 -2.5
1.2s 347.00nm 6.2mb
IIC 53.10 119 iPc 31 20.60 -1.5
CRX 53.24 119 iPc 31 21.60 -1.5
TAC 53.45 119 iP 31 18.50 -6.1
IRK 53.54 314 iPd 31 22.20 -2.4
1.6s 170.00nm 5.8mb
Z 16s 74.20um 6.8MszX
N 16s 44.10um
E 20s 45.30um
epP 31 31.00 29kmX
ePcP 32 34.20
ePP 33 31.00
ePPP 34 35.00
eS 38 49.00
eSPP 39 10.00
eScS 41 02.00
eSS 42 34.00
IIP 53.61 119 eP 31 25.20 -0.7
SNY 54.15 293 iPd 31 26.50 -2.6
PP 33 24.00
S 38 54.00
ScS 41 14.00
IIT 54.16 118 eP 31 28.50 -1.3
III 54.24 120 eP 31 27.50 -2.8
e 31 41.00

KJF		55.08	3	iPd-	31 33.50	-2.2
		1.0s	390.00nm			6.4mb
	Z	24s	15.90um			6.0MszX
				i	31 43.00	
				eS	39 03.00	
				e	01 51.00	
ZAK		55.46	313	iPd	31 37.00	-1.6
		3.7s	1320.00nm			6.4mb X
	Z	16s	44.10um			6.6MszX
	N	16s	42.20um			
	E	18s	8.67um			
				ePP	33 46.00	
				ePPP	34 55.00	
				eSS	43 07.00	
				eSSS	45 04.00	
SUF		56.52	4	iPd	31 43.80	-2.3
		1.0s	428.00nm			6.4mb
BER		57.14	16	iP	31 49.00	-1.5
NB2		57.19	12	P	31 48.60	-2.4
DL2		57.38	292	iPd	31 49.50	-3.0
				S	39 37.80	
HFS		58.33	11	(P)	31 56.30	-2.6
KON		58.38	14	eP	31 57.20	-2.0
NUR		58.68	5	iP	31 59.00	-2.3
		1.0s	420.00nm			6.5mb
	Z	26s	10.20um			5.8MszX
				i	32 08.20	
				eS	39 56.00	
				e	01 54.00	
BJI		58.87	297	Pd-	32 00.00	-2.9
		1.5s	200.00nm			6.0mb
				pP	32 09.00	30kmX
				eS	40 00.00	
				sS	40 17.50	
				ScS	41 49.00	
				SS	43 56.00	
UPP		58.93	9	iP	32 00.10	-3.0
		1 4s	900.00nm			6.7mb
				i	32 08.70	
				iS	40 04.00	
PUL		59.57	1	iPd	32 05.50	-2.0
		1.5s	3200.00nm			7.2mb
				ipP	32 15.00	31kmX
				ePcP	32 50.00	
				ePP	34 26.00	
				eS	40 05.00	
				eSP	40 23.00	
				eSSS	46 32.00	
HHC		60.17	301	Pd	32 09.60	-2.4
SVE		60.51	343	iPd	32 12.00	-2.0
		3.0s	2800.00nm			6.9mb
				ipP	32 21.00	29kmX
				iS	40 20.00	
				eScS	42 00.00	
EKA		60.62	23	Pc	32 13.50	-1.2
		1.4s	1120.00nm			6.8mb
BTO		61.02	302	P	32 15.00	-2.8
				S	40 35.00	
ARU		61.20	344	iPd	32 15.50	-3.1
		1.2s	700.00nm			6.7mb
	Z	20s	15.50um			6.2Msz
	N	20s	19.00um			
	E	26s	11.50um			
				epP	32 25.00	31kmX
				ePPP	35 57.00	
				eS	40 27.50	
				eSP	40 47.50	
				eScS	42 04.00	
				eSS	44 35.00	
MUD		61.45	15	iPc	32 19.50	-0.8
		1.2s	270.00nm			6.3mb
TIA		61.62	294	P	32 18.70	-3.1
				ePP	34 37.00	
				S	40 35.50	
DCN		61.67	26	iPd	32 19.90	-1.9
		1.5s	1520.00nm			6.9mb
DDK		61.83	25	eP	32 21.00	-1.9
DLE		61.88	26	iPd	32 21.30	-2.0
		1.5s	1230.00nm			6.8mb
VAL		62.32	28	iP	32 24.30	-1.9
				iS	40 41.00	
TIY		62.42	298	Pd	32 24.50	-2.7
				PcP	33 02.00	
				PP	34 45.00	
				S	40 50.00	
				ScS	42 16.00	
ETA		62.50	26	iPd	32 25.70	-1.7
		1.4s	1470.00nm			6.9mb
COP		62.59	13	iPd	32 26.20	-1.7
		1.0s	292.00nm			6.4mb
				iS	40 53.00	
SEM		62.59	328	iPd	32 24.50	-3.5
		2.7s	980.00nm			6.5mb
				ePP	34 41.50	
				ePPP	36 21.90	
				eS	40 41.60	
				eScS	42 11.60	
ECB		62.69	26	iPd	32 27.00	-1.6
		1.4s	1290.00nm			6.9mb
ECP		62.95	26	iPd	32 28.70	-1.6
		1.6s	920.00nm			6.7mb
MOS		63.56	357	iPd	32 34.00	-0.3
		3.0s	5000.00nm			7.1mb
	Z	22s	20.70um			6.3Msz
	N	22s	17.30um			
				ipP	32 42.00	26kmX
				ePP	34 59.00	
				ePPP	36 23.00	
				iS	41 06.00	
				eSPP	41 29.00	
				eScS	42 21.00	
				eSS	45 18.00	
MVI		63.66	276	eP	32 35.00	-0.4
				eS	41 06.00	
SSE		64.04	287	Pd	32 35.50	-2.3
		1.0s	50.00nm			5.6mb
	N	14s	17.50um			
	E	16s	15.80um			
				i	32 38.00	
				i	32 49.00	
				S	40 44.00	
				sS	41 11.00	
				ScS	42 26.00	
				eSS	45 18.00	
OBN		64.16	358	iPd	32 36.20	-2.0
		1.5s	1440.00nm			6.9mb
	Z	20s	15.20um			6.2Msz
	N	20s	6.60um			
	E	20s	12.10um			
				ipP	32 45.00	28kmX
				iS	41 10.00	
NJ2		64.32	290	Pd	32 37.00	-2.6
				PP	35 00.00	
				ScS	42 26.00	
HAM		64.47	15	iPd	32 40.60	0.3
WIT		64.67	17	eP	32 41.00	-0.6
				isP	32 50.80	
				e	33 03.50	
DBN		65.14	18	iP-	32 45.00	0.4
	Z	20s	9.00um			6.0Msz
				isP	32 54.00	
				ePP	35 16.00	
				iS	41 27.00	
				isS	41 39.00	
				eP'P'	01 29.00	
WTS		65.49	17	iPd	32 45.50	-1.4
		1.1s	457.00nm			6.5mb
				isP	32 54.80	
				eP'P'	01 26.50	
BRN		65.89	13	iPd	32 48.30	-1.1
GTA		66.10	309	iPd	32 49.10	-2.0
				S	41 29.00	
UCC		66.28	19	Pc-	32 49.60	-2.3
				pP	33 01.00	38kmX
				PP	35 14.00	
				S	41 40.00	
				e	01 26.00	
WMQ		66.42	320	iPd	32 51.00	-2.1
				iS	41 41.00	
				ScS	42 46.00	
BNS		66.55	17	iPd	32 52.30	-1.4
		1.3s	690.00nm			6.6mb
				iPP	35 20.00	
				eS	41 42.00	
ENN		66.55	18	iPd	32 52.20	-1.5
		1.1s	438.00nm			6.5mb
				esP	33 00.00	
				e	33 07.00	
				eP'P'	01 24.50	
KLL		66.73	18	iPd	32 53.20	-1.7
WAR		66.75	8	eP	33 00.00	5.1
				e	33 20.00	
				e	41 45.00	
				e	42 08.00	
STB		66.86	18	iPd	32 54.00	-1.6
CLL		66.96	13	iPd	32 54.20	-2.1
		2.5s	1100.00nm			6.5mb
				i	33 04.00	
				eS	41 44.00	
				P'P'	01 21.00	
DOU		67.00	19	Pd-	32 55.00	-1.5
				pP	33 05.00	32kmX
				PP	35 20.00	
				S	41 45.00	
				SS	46 08.00	
				e	01 20.90	
XAN		67.04	299	P	32 52.00	-5.1
				PP	35 24.00	
				S	41 39.00	
BGG		67.31	17	iPd	32 57.00	-1.5
FLN		67.39	23	iPd	32 57.20	-1.8
MOX		67.45	14	iPd-	32 58.00	-1.4
		1.2s	691.00nm			6.6mb
	Z	16s	6.50um			5.9MszX
	N	17s	5.40um			
	E	20s	4.80um			
				i	33 07.50	
				iPP	35 28.00	
				iS	41 52.00	
				iSS	45 30.00	
				iSSS	49 35.00	
TNS		67.45	17	ePd	32 58.10	-1.4
				eS	41 55.00	
BRG		67.49	13	iPd	32 57.80	-1.8
		1.6s	560.00nm			6.4mb
	Z	22s	6.00um			5.8Msz
	N	22s	4.00um			
	E	22s	3.00um			
				i	33 07.70	
				eS	41 52.00	
GUMO		67.49	257	eP-	32 55.00	-5.0
GUA		67.51	257	eP-	32 54.50	-5.7
		0.8s	89.60nm			5.9mb
	Z	22s	9.63um			6.0Msz
				eS	41 45.00	
LDF		67.62	23	iPd	32 58.60	-1.9
WHN		67.64	293	Pd	32 58.00	-2.8
				PP	35 32.00	
				iS	41 50.00	
WLF		67.66	18	P-	33 01.00	0.3
				pP	33 11.00	32kmX
				e	35 42.00	
				S	42 01.00	
GRR		67.67	23	iPd	32 59.20	-1.6
KSP		67.76	11	iPd	32 59.70	-1.6
		1.5s	442.00nm			6.3mb
				i	33 09.20	
				eS	41 55.00	
HOF		67.81	14	iPd	33 00.00	-1.7
		1.4s	435.00nm			6.4mb
				eS	41 55.00	
LPF		67.98	24	iPd	33 01.20	-1.5
GRF		68.34	15	iPd	33 03.80	-1.2
		1.7s	651.00nm			6.5mb
	Z	17s	4.10um			5.7MszX
				e	33 13.10	
				iS	42 04.50	
PRU		68.43	12	Pd	33 04.00	-1.5
		2.0s	570.00nm			6.3mb
	Z	18s	5.20um			5.8Msz
	N	18s	4.20um			
	E	17s	6.00um			
				i	33 13.30	
				e	35 36.00	
				S	42 05.00	
GWF		68.55	17	iPd	33 04.90	-1.4
KRA		68.85	9	iPd	33 06.30	-1.8
		1.3s	318.00nm			6.3mb
	Z	28s	18.80um			6.2MszX
	N	28s	14.30um			
	E	28s	7.80um			
				i	33 17.80	
				i	33 24.30	
				eS	42 07.00	
ANP		68.87	284	iP-	33 08.00	-0.7
				iS	42 16.00	
BUH		68.93	17	ePd	33 07.30	-1.4
STU		68.97	16	iPd-	33 07.00	-1.9
		1.0s	140.00nm			6.0mb
	Z	20s	11.40um			6.1Msz
WET		69.07	14	iPd	33 08.40	-1.1

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	1.3s	385.00nm		6.3mb				eS	42	34.30					iS	43	11.70					
	Z 22s	21.50um		6.3Msz		PSZ	70.97	9	iPd	33	20.20	-0.9		GZH	74.48	289	iPc	33	41.30	-0.7		
		eS	42	14.50		FRU	71.06	329	iPd	33	20.20	-1.5					iS	43	14.00			
KHC	69.17	13 iPd	33	08.80	-1.3		1.6s	900.00nm				6.6mb		GYA	74.56	297	Pd	33	40.40	-2.2		
	1.1s	264.00nm		6.2mb			Z 18s	46.50um				6.8Msz					S	43	13.00			
	Z 22s	6.00um		5.8Msz			N 17s	35.00um						TLB	74.72	3	ePd	33	41.50	-1.6		
	N 23s	3.80um					E 20s	27.00um						MDN	74.77	86	eP	33	41.00	-2.8		
	E 21s	3.00um						ipP	33	29.40	30kmX			HKC	74.78	288	eP	33	42.30	-1.4		
		i	33	18.60				iPcP	33	41.60							eS	43	14.00			
		S	42	14.00				ePP	36	00.00				BUC1	74.89	5	ePd	33	40.00	-4.1		
ECH	69.22	18 iPd	33	09.00	-1.5			ePPP	37	43.00				LIS	74.96	33	iPd	33	43.50	-1.0		
LVV	69.34	6 iPd	33	11.10	0.0			iS	42	30.00				CVF	75.00	18	iPd	33	43.10	-1.7		
	6.0s	7100.00nm		6.9mb X				eSS	47	00.00				PYA	75.01	352	iPd	33	43.00	-1.8		
		iS	42	16.00		OGA	71.09	16	iPd	33	21.20	-0.8			2.0s	660.00nm				6.3mb		
		eScS	43	11.00		RJF	71.09	23	iPd	33	19.90	-1.9			Z 24s	14.30um				6.2MszX		
		eSS	46	43.00		OSS	71.15	16	ePd	33	21.10	-1.3			N 24s	10.60um						
GRC	69.45	21 iPd	33	10.10	-1.7	KBA	71.17	14	iPd	33	21.20	-1.3			E 24s	7.15um						
		i	33	20.10			1.0s	445.00nm				6.5mb					iPcP	33	54.00			
MFF	69.53	24 iPd	33	10.90	-1.4			i	33	31.30							iPP	36	30.00			
BAF	69.57	18 iPd	33	11.20	-1.5	VDL	71.25	17	ePd	33	22.20	-0.8					iS	43	20.00			
LOR	69.61	21 iPd	33	11.00	-1.8	LFF	71.30	23	iPd	33	21.70	-1.3					eSKS	43	42.00			
ROF	69.71	18 iPd	33	11.80	-1.6	BUD	71.33	10	eP	33	22.00	-1.2					iSS	48	12.00			
SSF	69.75	21 iPd	33	12.00	-1.7	DIX	71.34	18	ePd	33	22.60	-1.1		EBR	75.21	25	eP	33	44.00	-1.9		
FUR	69.84	15 iPd	33	13.20	-1.0	BMR	71.45	7	ePc	33	23.00	-0.9					ePP	36	35.00			
	1.0s	367.00nm		6.4mb		MMK	71.46	18	ePd	33	23.40	-0.9					eS	43	16.00			
		eS	42	23.50		TMA	71.54	17	ePd	33	22.90	-1.8		PML	75.34	86	eP	33	41.80	-5.3		
SLE	69.86	17 ePd	33	12.40	-1.9	CAF	71.56	22	iPd	33	22.90	-1.8		PMCB	75.34	86	eP	33	40.30	-6.9		
LBF	69.91	20 iPd	33	12.60	-2.1	LPO	71.63	23	iPd	33	23.30	-1.7		FDF	75.39	86	eP	33	40.60	-6.8		
TLG	69.94	327 iPd	33	12.80	-2.1	SSB	71.66	21	eP	33	24.00	-1.3		TOV	75.45	96	iPd	33	47.00	-0.8		
	1.7s	270.00nm		6.1mb		CD2	71.92	301	Pd	33	24.80	-2.3			0.9s	100.00nm				5.8mb		
	Z 18s	35.50um		6.7Msz					S	42	37.00			GRO	75.49	350	iPd	33	47.00	-0.5		
	N 18s	64.00um				NRN	72.02	327	iPd	33	26.60	-1.2			1.5s	520.00nm				6.3mb		
		iPP	35	50.00					eS	42	45.00						iPcP	33	56.00			
		iS	42	15.00		SAL	72.26	16	eP	33	27.00	-1.7					iS	43	23.00			
		eSP	42	42.00		KIS	72.32	3	iPd	33	27.00	-2.1		SOC	75.64	355	iPd	33	47.00	-1.4		
		iSS	46	44.00			2.0s	2200.00nm				6.8mb			2.0s	600.00nm				6.3mb		
AVF	69.99	21 iPd	33	13.30	-1.8		Z 20s	5.80um				5.8Msz			Z 21s	17.00um				6.3Msz		
AAA	70.05	327 iP	33	14.00	-1.6			ipP	33	36.00	29kmX						ePcP	34	00.00			
	4.0s	2.60nm		3.7mb X				iS	42	50.00							iPP	36	36.00			
		iPcP	33	35.00		LJU	72.32	13	eP	33	26.90	-2.3					ePPP	38	25.00			
		iS	42	24.00					eS	42	36.50						iS	43	24.00			
ZUL	70.12	17 ePd	33	14.00	-2.0	CJR	72.41	7	eP	33	28.30	-1.4		MAK	75.67	349	iPd	33	48.00	-0.5		
SMF	70.22	21 iPd	33	14.50	-2.0	TRI	72.57	14	iPd	33	28.10	-2.5			6.0s	6000.00nm				6.8mb X		
TCF	70.27	22 iPd	33	15.20	-1.7				iPP	36	20.00				Z 20s	23.00um				6.5Msz		
KMR	70.29	13 iP-	33	15.70	-1.2				iPPP	37	56.00				E 18s	4.50um						
VKA	70.31	12 iPd	33	15.80	-1.3				iS	42	52.00						eS	43	26.00			
	5.0s	3110.00nm		6.7mb X					i	43	45.00						eSP	44	02.00			
	Z 17s	3.84um		5.7MszX					iSS	47	37.00						eSSS	51	32.00			
		i	33	28.50					iSSS	51	12.00			TPT	75.70	180	iP	33	47.40	-1.5		
		iPP	35	50.80		CEY	72.61	13	eP	33	29.20	-1.7			1.2s	295.00nm				6.2mb		
		eS	42	27.40		ZAG	72.70	12	iPd	33	31.00	-0.4		PMO	75.72	181	iP	33	47.50	-1.5		
		sS	42	42.60					i(PPP)	37	20.40				1.2s	295.00nm				6.2mb		
PRZ	70.39	326 iPc	33	15.50	-2.3				eS	42	55.30			GAR	75.74	331	iPd	33	46.90	-2.3		
	3.0s	1300.00nm		6.5mb		BAC	72.71	4	eP	33	25.00	-6.4			1.7s	530.00nm				6.3mb		
	Z 18s	6.00um		5.9Msz		VG1	72.72	17	iPc	33	31.00	-0.5			Z 18s	10.30um				6.2Msz		
	N 18s	7.00um				CLI	72.74	4	ePd	33	29.00	-2.6			N 20s	14.00um						
	E 18s	32.00um				PTO	72.82	31	iPd	33	30.60	-1.5			E 17s	16.70um						
		epP	33	26.00	34kmX	EPF	73.05	24	iPd	33	31.40	-2.1					ePcP	33	56.90			
		ePP	35	51.00		BPA	73.06	85	eP	33	30.50	-3.4					ePP	36	36.90			
		ePPP	37	36.00		PPE	73.08	4	ePd	33	32.00	-1.6					iS	43	24.90			
		iS	42	28.50		DEV	73.20	7	eP	33	35.00	0.7					eScS	43	56.90			
		eScS	43	18.00		TIM	73.24	8	iPd	33	33.00	-1.5					eSPP	44	13.90			
MZF	70.41	22 iPd	33	15.90	-1.8	MLS	73.27	24	iPc	33	33.30	-1.5		UAV	75.81	98	eP	33	49.00	-1.0		
UZH	70.42	7 iPd	33	15.00	-2.7	VRI	73.40	4	ePd	33	34.00	-1.5			0.8s	175.00nm				6.1mb		
	1.4s	750.00nm		6.6mb		FRF	73.68	19	iPd	33	35.60	-1.5		SDV	75.82	97	eP	33	48.50	-1.5		
	Z 20s	10.00um		6.1Msz		LRG	73.74	20	iPd	33	36.20	-1.2		AQU	75.83	15	eP	33	48.00	-1.6		
	N 20s	7.00um				MLR	73.75	5	iPc	33	36.00	-1.6		SAM	75.86	333	iPd	33	48.00	-1.8		
	E 20s	5.00um				TAS	73.77	332	iPd	33	36.00	-1.7			3.0s	3200.00nm				6.8mb		
		ipP	33	26.00	36kmX		2.0s	1100.00nm				6.5mb			Z 22s	10.00um				6.1Msz		
		iPcP	33	38.00					iPcP	33	45.00				N 22s	6.50um						
		iS	42	28.00					iS	42	56.00				E 22s	6.00um						
JOS	70.44	9 iPd	33	16.40	-1.4	SEG	73.79	85	eP	33	35.00	-3.1					iPcP	33	58.00			
	1.4s	360.00nm		6.3mb		KSH	73.87	326	Pd	33	37.00	-1.4					iPP	36	41.10			
ZST	70.45	11 iP	33	16.70	-1.2				iS	43	08.00						iS	43	25.00			
		e	37	12.50		LMR	73.88	20	iPd	33	37.00	-1.3		RUV	75.91	180	iP	33	48.40	-1.6		
QZH	70.46	286 Pd	33	16.00	-2.2	CMP	73.93	6	ePd	33	38.00	-0.6			1.2s	440.00nm				6.3mb		
		iS	42	26.00		CLO	74.00	7	ePd	33	38.00	-0.9		VAH	75.96	180	iP	33	48.90	-1.4		
		SKS	43	04.00		PAG	74.02	86	eP	33	37.00	-2.5			1.2s	490.00nm				6.4mb		
BHG	70.48	14 iPd	33	16.60	-1.5	ISR	74.12	5	ePc	33	38.00	-1.7		PVL	76.05	6	iPd	33	48.00	-2.7		
	1.5s	515.00nm		6.4mb		FIR	74.15	16	iPd	33	39.00	-0.8		CAR	76.22	93	iP	33	48.00	-4.2		
SAX	70.48	17 ePd	33	17.00	-1.5				i	33	51.00			RMP	76.28	15	iPd	33	32.00	-20.0		
GAP	70.49	15 eP	33	17.40	-0.8				iS	43	09.00						iPP	36	36.00			
	1.3s	305.00nm		6.2mb		LGN	74.42	97	iP	33	47.50	5.8					iS	43	32.00			
LLS	70.81	17 ePd	33	19.10	-1.3	ANN	74.43	357	iPd	33	39.20	-2.2		VTS	76.49	7	iPc	33	51.00	-2.1		
SRO	70.94	10 iP	33	19.40	-1.5		4.0s	2200.00nm				6.5mb X		DSH	76.53	332	iPd	33	52.00	-1.6		
	N 18s	7.79um					N 22s	26.40um							Z 14s	26.50um				6.7MszX		
	E 18s	4.67um						ePcP	33	50.20							iS	43	34.50			

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DUI		76.64	14	eP	33	52.50	-1.5	KAT		78.33	341	iPd	34	03.00	-0.4				iS	44	46.00		
JMB		76.79	5	iPc	33	55.00	0.1			7.0s	3100.00nm			6.4mb	X	NPS		83.93	6	iP	34	30.50	-2.5
BAG		76.82	280	ePd-	33	52.00	-3.6		Z	16s	34.40um			6.8MszX		KER		84.28	348	eP	34	35.00	0.1
		1.3s	288.00nm			6.1mb			N	16s	43.00um					LAT		84.32	245	eP	34	33.00	-2.1
				eS	43	36.00			E	16s	19.50um					RKT		84.39	169	iP	34	33.60	-1.6
KHO		76.89	329	iPd	33	53.60	-2.1					eS	43	59.00				1.2s	240.00nm			6.3mb	
		6.8s	2600.00nm			6.4mb	X	PAE		78.39	182	iP	34	02.60	-1.2	CHG		84.61	299	iPd	34	34.00	-2.7
	Z	18s	27.70um			6.6Msz				1.2s	490.00nm			6.4mb				1.0s	60.00nm			5.7mb	
	N	18s	13.90um					TVO		78.50	182	iP	34	03.30	-1.2					eS	44	56.00	
	E	18s	12.20um					HRT		78.53	2	iP	34	03.30	-1.2	CHTO		84.61	299	P	34	34.20	-2.4
				ePcP	34	06.60		KZN		78.68	8	iP	34	03.00	-2.4	BHD		85.60	350	eP	34	41.50	0.2
				ePP	36	44.60		ERE		78.73	351	iPd	34	04.00	-1.7	TZZ		85.71	251	iPd	34	40.00	-2.2
				ePPP	38	37.20						iS	44	00.00		LMG		85.82	243	eP	34	40.00	-2.8
				eS	43	38.00		YLV		78.77	3	iP	34	04.30	-1.6	BDT		85.98	299	iPd	34	42.80	-0.6
				eSS	48	34.00		EDC		78.95	4	iPc	34	05.30	-1.5			1.5s	380.00nm			6.4mb	
KUL		76.93	331	iPd	33	54.30	-1.4	GPA		79.07	2	ePd	34	05.90	-1.6	HRI		86.06	357	iP	34	43.50	-0.3
		3.2s	2100.00nm			6.6mb	X	GRS		79.26	349	iPd	34	07.40	-1.3	PMG		86.70	244	eP-	34	43.00	-3.9
	Z	14s	11.20um			6.3MszX				4.0s	2600.00nm			6.6mb	X	NST		86.89	297	iPc	34	46.20	-1.7
	N	14s	22.90um						Z	18s	9.00um			6.2Msz		PCT		87.21	295	iPd	34	48.70	-0.8
	E	14s	6.70um						N	18s	6.90um							1.0s	42.40nm			5.6mb	
				iPP	36	46.60			E	18s	6.40um					JER		87.56	358	iP	34	50.00	-1.1
				iS	43	38.60						iPcP	34	17.80						eS	45	14.00	
SKO		77.00	9	iPd	33	54.60	-1.4					ePP	37	12.40		KKM		87.90	279	ePd	34	49.00	-3.9
		1.2s	450.00nm			6.4mb						iS	44	05.00		SHI		88.26	343	eP	34	53.00	-1.6
				iPcP	34	03.80						eScS	44	19.60		KHT		88.35	298	eP	34	58.50	3.5
				iS	43	44.00						iSP	44	48.00		PRNI		88.99	358	eP	34	57.50	-0.4
PLD		77.07	6	eP	33	55.00	-1.4	VAN		79.25	340	iPd	34	07.20	-1.3	HLW		89.49	1	iP-	35	14.00	13.8
DIM		77.17	5	eP	33	57.00	0.1		Z	20s	20.30um			6.5Msz						iS	45	28.00	
MTA		77.20	351	iPd	33	56.00	-1.1		N	20s	23.80um					NNT		89.80	296	eP	34	57.00	-4.9
				ePcP	34	07.00			E	20s	14.20um					KOU		90.08	224	iPd	35	00.60	-2.2
				eS	43	41.40						ePcP	34	16.40		AAI		90.52	263	ePc	35	02.00	-3.1
BKR		77.26	352	iPd	33	46.60	-11.1					ePP	37	14.00		NOU		90.98	222	iPd	35	05.30	-1.6
		1.4s	370.00nm									eS	44	05.00		HYB		93.70	317	ePd	35	17.00	-2.8
	Z	21s	11.90um			6.2Msz						eScS	44	22.00				1.6s	308.00nm			6.5mb	
	N	21s	7.50um									ePS	44	54.00						e	35	41.50	
	E	21s	7.10um									eSS	49	12.00		POO		94.16	321	iPd	35	20.00	-1.9
				iS	43	44.00		PSO		79.35	107	iP	34	07.50	-2.3			1.3s	279.00nm			6.5mb	
FUQ		77.30	102	eP	33	58.00	-0.4	EZN		79.42	5	iPc	34	07.00	-2.3	SNG		94.21	293	eP	35	21.00	-1.1
KMI		77.42	299	iPd-	33	56.50	-2.4	ABA		79.60	24	iP	34	09.00	-1.3	MKS		96.09	270	ePc	35	28.80	-1.9
		5.0s	1.70nm			3.3mb	X	DST		79.72	3	iPd	34	09.40	-1.6	IPM		96.33	291	ePd	35	29.00	-2.9
	N	16s	22.70um					RAB		79.86	242	iPd-	34	10.00	-2.0	CTA		96.59	240	iPd	35	31.00	-1.8
				pP	34	06.00	30kmX	PRK		79.99	5	iP	34	11.00	-1.4			1.2s	79.70nm			6.1mb	
				PPP	38	43.00		MOM		80.04	247	eP	34	11.00	-2.0					i	39	24.00	
				iS	43	43.00		ALT		80.30	2	iPd	34	13.20	-1.0					iS	46	11.00	
				SKS	44	02.00		GUV		80.41	91	iPd	34	12.90	-2.1					i	53	24.00	
DMK		77.48	4	eP	33	55.50	-3.2	MHI		80.62	338	iPd-	34	15.00	-0.9	MTN		97.07	256	eP	35	32.00	-3.0
MMB		77.53	7	iPd	33	58.00	-1.0			1.3s	246.00nm			6.1mb		GBA		97.62	316	Pd	35	34.70	-3.0
KDZ		77.56	6	iPd	33	58.00	-1.1					e	37	21.00				0.9s	25.20nm			5.7mb	
BRT		77.71	12	iPc	33	58.00	-1.9					eSn	44	22.00		PSI		98.95	292	ePd	35	41.10	-2.5
VAY		77.72	8	iPd	33	58.40	-1.6	SET		80.63	22	iP	34	14.00	-2.0			1.0s	37.30nm			5.9mb	
OHR		77.80	9	iP	33	58.80	-1.7	TAB		80.68	349	iPd-	34	16.00	-0.3	LPB		99.17	107	eP	35	42.00	-3.0
				i	34	08.10		VLS		80.70	10	iP	34	14.50	-1.7					SKS	46	22.00	
				iS	43	49.40		IZM		80.88	4	eP	34	13.10	-4.1	ISQ		100.05	245	ePdiff	35	45.00	-3.6
SGO		77.83	13	iPd	33	58.50	-2.1	ATH		81.13	7	iPd	34	16.00	-2.4	TRT		101.57	275	iPdiff	35	54.20	-1.2
		1.5s	590.00nm			6.4mb						iS	44	23.50		ASPA		105.16	249	ePdiff	36	13.00	1.8
SFS		77.84	31	iPd	34	01.00	0.3	MEI		81.14	14	eP	34	16.00	-2.5	SOB1		105.96	80	ePdiff	36	12.90	-2.1
				i	34	45.00		SVO		81.21	233	eP	34	17.00	-2.1					e	40	12.80	
				iPP	36	56.00		HNR		81.42	233	eP-	34	18.00	-2.2					e	40	36.30	
				iS	43	58.00						eS	44	28.00						e	40	42.80	
				eSS	49	10.00						eSS	49	44.00		ITR		106.75	78	e(Pdif	36	30.00	11.5
BOG		77.88	103	iP	34	00.00	-1.7					eLQ	52	14.00		ARO		107.28	350	ePKP	40	47.50	17.7
				eS	43	43.00		CGP		81.70	272	eP	34	18.00	-3.7	BAO		108.06	90	e(PKP)	40	10.00	-21.3
BOCO		77.92	103	P	34	01.00	-1.0	CIN		81.70	4	iPc	34	19.80	-1.6	STK		108.93	238	ePKP	40	30.00	-2.4
KAS		78.00	359	iPc	34	00.50	-1.1					i	34	30.00		CAN		109.01	231	ePdiff	36	32.00	3.9
BAK		78.02	347	iPc	34	02.00	0.4	KKN		81.81	315	iPd	34	21.20	-1.2					e	41	04.80	
		4.0s	3100.00nm			6.7mb	X			0.8s	150.00nm			6.1mb		TOO		112.33	232	ePKP	40	36.00	-2.7
				iPcP	34	12.00		BCK		81.90	2	iPd	34	20.40	-2.1	BNG		113.85	15	ePdiff	36	56.00	5.9
				iSKS	44	04.00		PKI		81.97	314	iPd	34	21.70	-1.7			1.0s	5.00nm				
MAL		78.03	30	iPd	34	02.00	0.2			1.0s	260.00nm			6.2mb		BNG		113.85	15	iPKPd	40	39.50	-2.8
				iPP	37	00.00		DMN		82.04	315	iPd	34	22.30	-1.4			1.2s	25.00nm				
				iS	43	56.00		TEH		82.42	345	eP	34	23.00	-2.4	MEK		114.87	260	iPKPc	40	40.80	-3.1
LEN		78.20	351	iPd	34	02.00	-0.9	DAV		82.45	271	ePd-	34	24.00	-1.6	BMA		115.94	90	e(PKP)	40	44.00	-2.1
		1.5s	700.00nm			6.5mb				1.0s	320.00nm			6.3mb		KLG		116.97	255	ePKP	40	44.00	-3.8
	N	20s	6.10um									eS	44	36.00		BAL		119.08	259	iPKPd	40	49.00	-2.8
	E	20s	2.30um					ELL		82.60	2	iPd	34	23.90	-2.4			0.8s	36.00nm				
				ePP	37	05.00		MSL		82.61	352	ePd	34	23.50	-2.7	KLB		119.40	257	iPKPc	40	49.40	-2.9
				ePPP	38	51.00						e	34	34.50				1.0s	122.00nm				
				eS	43	54.00						eS	44	39.50		NAI		120.37	355	ePKP	40	55.00	0.0
PPN		78.25	182	iP	34	01.60	-1.5					eSP	45	27.50				1.2s	54.70nm				
KVT		78.26	357	eP	34	02.20	-0.8	NDF		83.40	214	eP	34	31.00	0.7	MUN		120.46	258	ePKP	40	51.00	-3.3
AFR		78.27	182	iP	34	01.80	-1.3	SVA		83.48	213	eP	34	29.80	-0.9	NWAO		120.75	257	ePKP	40	52.00	-2.9
		1.2s	390.00nm			6.3mb		JAY		83.53	253	ePd	34	29.00	-2.2			1.0s	80.00nm				
ISK		78.27	3	iP	34	01.80	-1.2	NDI		83.60	322	iPd	34	29.00	-2.4	AVY		136.65	339	iPKPc	41	23.80	-2.1
IST		78.29	3	iPd	34	01.50	-1.6			1.0s	200.00nm			6.2mb		DRV		137.98	215	ePKP	41	18.00	-8.7
				iS	43	56.00			Z	22s	34.40um			6.7Msz		BUL		139.10	6	iPKPd	41	33.10	2.7
PPT		78.29	182	iP	34	02.00	-1.3		N	22s	17.40um					SLR		144.64	7	iPKPd-	41	36.70	-3.2
		1.2s	475.00nm			6.4mb			E	22s	16.70um							1.4s	940.00nm				

07d 19h

	Z	22s	12.40um		6.6Msz	
PRE	144.65	7	iPKPd	41	37.00	-2.9
	1.3s	1200.00nm				
KSR	144.68	9	iPKPd	41	33.50	-6.5
BPI	145.06	7	iPKPd	41	32.70	-8.0
CNG	145.32	1	iPKPd	41	37.00	-3.8
	0.9s	590.00nm				
		ipP	41	48.00		
EVA	145.45	6	iPKPd	41	39.30	-2.0
BFS	145.69	9	iPKPd	41	39.30	-2.4
	1.2s	706.00nm				
PRY	145.78	8	iPKPc	41	39.50	-2.3
	1.0s	220.00nm				
SWZ	145.84	12	iPKPc	41	39.00	-2.9
JOZ	146.47	1	iPKPd	41	48.70	5.9
VIR	146.87	9	iPKPd	41	43.00	-0.6
OKP	147.16	24	iPKPd	41	43.30	-0.6
	1.0s	320.00nm				
SEK	147.17	8	iPKPd	41	42.40	-1.7
KIM	147.34	13	iPKPc	41	40.90	-3.4
	0.9s	226.00nm				
		i	41	52.30		
BLF	147.83	11	ePKP	41	39.00	-6.1
HVD	149.25	12	iPKPd	41	46.00	-1.3
	1.2s	240.00nm				
SUR	150.35	21	iPKPd	41	46.90	-2.0
	0.8s	53.70nm				
	Z	20s	4.61um		6.3Msz	
		i	41	52.70		
SPA	150.81	180	ePKPc	41	43.80	-4.7
	1.0s	23.00nm				
	Z	19s	7.09um		6.5Msz	
		e	41	53.00		
TUH	150.94	24	iPKPc	41	47.50	-2.0
	0.6s	23.00nm				
BLE	151.42	25	iPKPc	41	50.00	-0.2
	1.2s	196.00nm				
GRM	152.04	11	iPKPd	41	48.00	-3.2
	0.6s	535.00nm				
	Z	20s	10.30um		6.6Msz	
MAW	165.45	230	iPKPd	42	03.90	-1.6
	0.9s	71.00nm				
NVL	167.09	148	iPKP	42	00.00	-6.7
			ePPKP	42	10.00	
			i	43	09.00	
			iPP	46	59.00	

534 obs. associated

SEP 12, 1983 15h 42m 08.57± 0.06s
36.536 N ± 1.4km 71.122 E ± 1.0km
DEPTH = 208.9km (91 depth phases)
6.3mb (130 obs.)
AFGHANISTAN-USSR BORDER REGION (717)
Slight damage in the Koshmir Volley. Felt (V) at Kharog, Pyandzh, Shaortuz, Dusti and Gissor; (IV-V) at Kulyob, Nurek, Dushonbe, Ordzhonikidzeabad, Toshkent, Gorm, Uro-Tyube, Pendzhikent and Leninabod; (IV) at Ishkashim, Rushon, Kalininabad, Kurgan-Tyube, Samarkond ond Andizhan; (III-IV) at Obigorm and Chimkent; (III) at Dzhirgatal and Naryn; (II-III) at Dzhambul and Talgor; and (II) at Frunze, USSR. Also felt in the Peshawar-Lahare area, Pakistan.

KHO	1.00	19	iPn	42	39.90	0.1
			eSn	43	01.00	
KUL	1.75	322	iPnc	42	45.30	-0.3
			iSn	43	11.60	
LNA	2.26	318	iPn	42	50.90	0.2
			iSn	43	20.90	
OBG	2.45	333	iPn	42	52.20	-0.7
			iSn	43	24.80	
GAR	2.54	346	iPn	42	53.00	-1.0
			eSn	43	25.50	
KRU	2.58	319	iPn	42	53.60	-0.7
CGT	2.62	324	iPn	42	53.40	-1.3
			eSn	43	26.40	
DZT	2.68	2	iPn	42	55.30	0.0
			eSn	43	29.30	
DSH	2.75	318	iPnd	42	55.30	-1.0
			iSn	43	29.30	
MUR	2.89	50	iPn	42	58.50	0.2
	0.4s	2.30nm				
		eSn	43	37.30		
URT	3.76	334	iPn	43	07.50	-0.7
FRG	3.88	7	iPnd	43	09.50	-0.2
	4.0s	80.00nm				
		iSn	43	54.50		
ANR	4.32	13	iPnd	43	14.80	-0.4
	4.0s	********nm				
NAM	4.46	5	ePn	43	16.20	-0.7
	2.2s	35.00nm				
SAM	4.52	315	iPnd	43	16.70	-1.0
KSH	4.82	51	iPd	43	23.00	1.4
		S	44	17.00		
TAS	4.99	344	iPnd	43	23.60	-0.1
	1.2s	********nm				
NRN	6.19	36	iPnd	43	36.90	-2.5
FRU	6.84	22	iPnd	43	47.40	-0.1
	3.2s	********nm			6.9mb	X
		iSn	45	04.00		
QUE	7.23	210	iPd	43	52.00	-0.8
		eS	44	39.00		
AAA	8.08	32	iPnd	44	03.60	-0.2
	3.0s	34.30nm			4.0mb	X
PRZ	8.18	41	iPnc	44	04.50	-0.7
	2.0s	6900.00nm			6.5mb	
TLG	8.26	34	iPn	44	04.50	-1.7
NDI	9.36	145	iPnd	44	18.40	-1.9
	0.7s	801.00nm			6.1mb	
		iSn	45	04.40		
MHI	9.38	272	iPnd-	44	17.60	-3.0X
	0.5s	1190.00nm			6.4mb	
		eSn	45	33.00		
ASH	10.28	282	iPc	44	28.50	-3.7X
	1.4s	********nm			7.1mb	
KHI	10.47	260	iPd	44	33.30	-1.5
VAN	10.48	282	iP	44	31.20	-3.5X
	4.0s	********nm			6.9mb	X
KAT	12.04	287	iPd	44	51.00	-3.6X
WMQ	14.60	55	Pc	45	26.20	-0.4
			sP	46	16.00	
			S	48	03.00	
			i	50	59.00	
			ScP	53	42.00	
			PcS	54	02.00	
			ScS	57	07.00	
DMN	14.81	123	iPd	45	27.80	-1.7
KKN	14.81	122	iPd	45	27.40	-2.1
PKI	15.04	122	iPd	45	30.50	-1.9
SEM	15.35	23	iP	45	33.90	-1.8
	1.9s	4740.00nm			6.6mb	
		iS	48	16.90		
TEH	15.97	273	ePc	45	43.00	-0.5
SHI	17.02	252	iPd	45	55.00	-1.0
BAK	17.05	289	iPc	46	10.00	13.9X
LNK	17.79	284	iPd	46	03.00	-0.9
		eS	49	12.00		
LSA	18.09	106	iPc	46	09.80	2.1
		sP	47	08.40		
		S	49	23.40		
POO	18.09	172	iPc	46	08.30	1.0
MAK	19.29	297	iP	46	19.20	-0.2
	2.0s	8500.00nm			6.9mb	
	Z	11s	11.70um			
	N	11s	25.40um			
		iS	49	38.00		
KER	19.68	271	eP	46	24.50	0.9
GRS	19.74	286	iPd	46	24.00	-0.2
	3.0s	6100.00nm			6.6mb	
		iS	49	55.00		
TAB	19.77	282	iP-	46	26.00	1.4
KRV	19.79	290	iPd	46	24.00	-0.5
		eS	49	55.00		
ELT	19.79	28	iPc	46	23.00	-1.3
	1.5s	2560.00nm			6.5mb	
		iS	49	54.00		
HYB	20.15	159	ePc	46	29.00	0.7
	0.8s	1570.00nm			6.6mb	
		i	46	31.00	8kmX	
		e	47	24.00		
		eS	49	58.00		
NVS	20.18	21	iPc	46	27.40	-0.9
	0.8s	2090.00nm			6.7mb	
	Z	12s	21.70um		5.7MszX	
	N	12s	15 80um			
	E	12s	10.10um			
		isP	47	26.70		
		iS	50	01.00		
NAK	20.46	285	iPd	46	33.00	1.8
		eS	50	13.00		
GRO	20.61	297	iPd	46	33.00	0.3
	2.0s	********nm			7.7mb	X
	Z	10s	110.00um		6.5MszX	
	N	10s	38.00um			
	E	10s	60.00um			
		iS	50	07.00		
MTA	21.03	292	iPd	46	38.00	1.3
		ePP	47	13.40		
		esP	47	37.40		
		iS	50	23.80		
ERE	21.16	288	iPd	46	39.00	0.8
		isP	47	40.00		
		iS	50	22.00		
STE	21.28	290	iPd	46	40.40	0.9
	3.0s	15.00nm			4.0mb	X
		iPP	47	15.20		
		isP	47	40.00		
		iS	50	26.50		
SVE	21.47	344	iPd	46	42.00	1.0
	2.5s	3000.00nm			6.4mb	
	Z	10s	54.00um		6.2MszX	
	N	10s	31.00um			
	E	10s	21.00um			
		esP	47	40.00		
		iS	50	26.00		
		eSS	51	16.00		
ARU	21.59	341	iPd	46	43.30	1.1
	4.0s	7500.00nm			6.6mb	X
	Z	12s	67.00um		6.3MszX	
	N	12s	34.00um			
	E	12s	29.00um			
		iPP	47	19.00		
		esP	47	45.50		
		eS	50	29.00		
		eSS	51	27.00		
LEN	21.68	290	iPd	46	46.00	2.7
	2.8s	5000.00nm			6.6mb	
		iPP	47	17.00		
		ipP	47	25.00		
		isP	47	46.00		
		iS	50	35.00		
BKR	21.99	292	iPd	46	49.00	2.7
	0.9s	910.00nm			6.3mb	
		iS	50	40.00		
AKH	21.99	291	iPc	46	48.60	2.2
	1.6s	30.00nm			4.6mb	X
BHD	22.14	269	iP	46	49.50	1.8
		i	47	29.00		
		iPPP	47	48.50		
		iS	50	38.00		
UER	22.18	40	ePd	46	29.80	-18.1X
		iPP	47	21.20		
MSL	22.47	278	eP	46	52.00	1.1
		iPP	47	15.00		
		iPPP	47	30.50		
		i	47	50.50		
		iPcP	50	38.00		
		iS	50	45.50		
		eSS	51	35.50		
ABS	22.50	292	iPd	46	53.40	2.4
	0.5s	400.00nm			6.2mb	
		ePP	47	24.00		
		iS	50	46.00		
PYA	22.61	298	iPd	46	52.50	0.4
	1.5s	2370.00nm			6.5mb	
	Z	20s	16.00um		5.5Msz	
	N	20s	16.00um			
	E	20s	19.00um			
		iPP	47	25.00		
		iS	50	42.00		
GTA	22.76	74	iPc	46	56.00	2.2
		pP	47	37.00	221kmX	
		sP	47	59.60		
		sS	51	55.00		
ZUG	23.26	294	iPd	47	01.00	2.6
	0.8s	200.00nm			5.8mb	
		ePP	47	44.00		
MOY	26.01	45	iPc	47	25.60	1.8
	1.5s	1540.00nm			6.5mb	
		ePP	48	10.00		
		ePcP	50	47.60		
		eSS	53	00.00		
LZH	26.31	81	iPc	47	28.50	1.7
	2.5s	4230.00nm			6.7mb	

12d 15h

	N	10s	10.90um								isS	54	34.00					S	54	28.00		
			Lg	51	27.00		ISK	32.86	291	iP	48	24.60	0.2				ScP	54	42.00		
			Lg	51	50.00		ELL	32.89	283	iPc	48	24.40	-0.5				PcS	55	01.80		
ANN	26.81	299	iPc	47	30.00	-1.0	IST	32.91	291	iPc	48	24.50	-0.3				sS	55	45.00		
	0.8s	800.00nm			6.5mb					iS	53	30.00					ScS	58	46.20		
			eS	51	50.40		NST	33.11	121	iPd	48	28.60	1.8	MMB	36.78	293	iPc	48	58.00	0.4	
ZAK	26.89	49	iPc	47	33.20	1.4	PSN	33.31	296	iPc	48	30.00	1.8	SRE	36.83	298	eP	48	58.00	0.0	
	1.4s	1090.00nm			6.4mb		DST	33.37	288	iPc	48	28.80	-0.1	SRS	36.95	292	ePc	48	58.90	-0.1	
			epP	48	17.00	221kmX	TLB	33.39	298	iPc	48	29.00	0.1	DEV	36.97	300	ePd	49	02.00	2.9X	
			esP	48	38.00		PPE	33.68	300	iPc	48	31.00	-0.4	VTS	37.04	295	iPc	49	00.00	0.3	
			ePcP	50	48.00		DMK	33.76	293	iPd	48	31.50	-0.6	PAIG	37.08	290	ePc	49	00.10	0.0	
			eS	51	57.00		EDC	33.85	290	iPd	48	32.80	-0.1	CLO	37.09	299	iPd	48	59.00	-1.1	
			esS	53	11.00		CLI	33.91	301	iPc	48	34.00	0.6	SOH	37.17	292	ePc	49	01.10	0.1	
			eSS	53	23.00		CIN	34.14	285	iPd	48	32.50	-2.9	UZH	37.32	305	iPd	49	03.00	1.0	
KVT	27.59	290	iPd	47	39.00	0.8				i	51	08.00			1.0s	250.00nm				5.8mb		
CD2	27.64	92	iPc	47	40.70	2.0	BAC	34.18	301	ePd	48	37.50	1.9				iS	54	33.00		
			pP	48	24.00	217km	NRI	34.21	11	iPc	48	36.40	0.8	ATH	37.44	287	iPc	49	04.00	0.8	
			PP	48	34.00			2.0s	7400.00nm			7.0mb					eS	54	36.40		
			iS	52	09.00					epP	49	19.00	204km	KNT	37.46	292	ePc	49	03.30	0.0	
IRK	28.14	45	iPc	47	43.00	0.0				esP	49	42.00		THE	37.50	291	ePc	49	01.10	-2.5	
	1.3s	860.00nm			6.3mb					eS	53	41.00		APA	37.65	337	iPc	49	05.00	0.4	
			ipP	48	27.00	220kmX				esS	54	51.00			1.3s	380.00nm				5.8mb		
			esP	48	51.00		VRI	34.30	300	iPc	48	38.00	1.3	Z	12s	26.00um				6.3MszX		
			ePcP	50	45.00		JMB	34.56	294	iPc	48	40.00	1.1				ipP	49	48.00	203km	
			eS	52	11.00		IZM	34.62	287	iPc	48	39.10	-0.4				isP	50	10.00		
SIM	29.07	298	iPc	47	51.00	-0.3	PCT	34.68	121	iPc	48	42.50	2.3				iPP	50	34.00		
Z	20s	7.50um			5.3Msz			1.1s	430.00nm			6.0mb					iS	54	39.00		
N	20s	10.00um								e	49	37.00	273kmX				isS	55	53.00		
E	20s	5.20um					BUC1	34.83	297	iP	48	40.00	-1.2	TUP	37.71	46	iPc	49	06.40	1.2	
			ipP	48	34.00	214km	MLR	34.85	299	iPc	48	42.00	0.5		1.0s	410.00nm				6.0mb	
			iPP	48	50.00		CGN	34.86	297	ePc	48	42.00	0.6				epP	49	50.90	211km	
			iS	52	26.00		PUL	34.94	325	iPc	48	43.00	1.1	SSR	37.85	298	iP	49	07.00	0.5	
HRI	29.10	274	eP	47	52.50	0.7		1.6s	4000.00nm			6.8mb		NUR	37.86	324	iPc	49	07.10	0.8	
KAS	29.29	291	iPc	47	52.80	-0.6	Z	12s	13.00um			5.9MszX			0.9s	735.00nm				6.3mb	
KMI	29.31	104	iPc+	47	54.00	0.1	N	12s	5.40um								ipP	49	50.70	206km	
	3.0s	4.20nm			3.6mb	X	E	12s	10.00um								isP	50	13.20		
			pP	48	41.00	236kmX				ipP	49	26.00	207km				iPP	50	32.00		
			sP	48	58.00					esP	49	49.00					eS	54	36.00		
			PcP	50	54.00					iS	53	57.00					esS	55	41.00		
			iS	52	34.00					esS	55	08.00					eSS	57	24.00		
			sS	53	52.00					eSS	56	28.00		GRG	37.86	292	ePc	49	06.10	-0.6	
			SS	54	27.00		OBO	34.99	233	iP+	48	49.40	6.6X	KJF	37.91	331	iPc	49	07.20	0.5	
MOS	29.69	321	iPd	47	57.00	0.4	NNT	35.05	126	iPc	48	42.20	-1.1		0.9s	350.00nm				6.0mb	
	2.0s	1200.00nm			6.3mb		EZN	35.09	289	iPd	48	43.60	0.2				ipP	49	50.00	202km	
Z	16s	12.80um			5.6MszX		BJI	35.25	70	iPc+	48	46.00	1.3				isP	50	12.50		
			ipP	48	40.00	213km		2.0s	1850.00nm			6.3mb					ePP	50	36.00		
			ePcP	51	03.00					pP	49	33.00	222kmX				esPP	51	28.00		
			eS	52	36.00					sP	49	55.00					eS	54	44.00		
			esS	53	44.00					PcP	51	11.00					esS	55	48.00		
OBN	29.98	319	iPd	47	59.50	0.3				S	54	04.00					eSS	57	20.00		
	2.0s	2300.00nm			6.5mb					ScP	54	37.00		SUF	37.94	328	iP	49	07.60	0.6	
Z	20s	9.00um			5.4Msz					PcS	54	57.00		LIT	37.95	291	ePc	49	06.40	-1.0	
N	20s	6.70um								sS	55	23.00		BSI	38.02	139	iPc	49	07.00	-1.2	
E	20s	7.80um								(SS)	56	37.00			1.0s	1250.00nm				6.5mb	
			iS	52	38.00					ScS	58	37.00		TIM	38.15	300	iPc	49	10.50	1.5	
JER	29.99	272	eP	48	00.00	0.3	MKL	35.29	233	eP+	48	46.70	1.5	WAR	38.27	310	eP	49	14.00	4.1X	
			eS	52	40.00		DIM	35.35	293	iPd	48	46.00	0.5				e	49	55.00	192kmX	
CHC	30.15	118	iPc	48	01.00	-0.1	BOD	35.36	39	iPc	48	44.80	-0.6				e	50	19.00		
	1.0s	190.00nm			5.8mb			1.1s	1350.00nm			6.5mb					e	50	45.00		
			eS	52	52.00		TDD	35.38	233	iP+	48	47.50	1.5				e	50	55.00		
PRNI	30.65	269	eP	48	06.00	0.6	ATA	35.45	232	iP+	48	48.20	1.6				e	54	48.00		
BDT	31.25	121	eP	48	13.80	3.2X	CMP	35.50	299	ePc	48	56.00	9.2X	JOS	38.49	304	ePc	49	12.00	0.3	
	1.0s	745.00nm			6.3mb		PVL	35.54	295	iPc	48	48.00	0.9		0.8s	100.00nm				5.5mb	
HHC	31.66	70	iPc	48	15.60	1.5	KDZ	35.57	293	iPd	48	47.00	-0.4	GZH	38.71	98	iPc	49	15.20	1.4	
			S	53	12.00		ARO	35.62	233	iP+	48	49.60	1.4				sP	50	22.00		
GYA	31.77	98	Pc	48	16.00	0.7	DAF	35.77	233	iP+	48	50.70	1.4				iS	54	58.00		
			sP	49	23.00		COZ	35.98	299	iPd	48	52.00	0.9	KRA	38.87	307	iPc	49	15.10	0.2	
			S	53	09.00		PLD	35.99	293	iPc	48	53.00	2.1		0.8s	452.00nm				6.1mb	
			PcS	54	43.00		LVV	36.22	307	iPc	48	53.80	1.0	Z	12s	11.10um				5.9MszX	
GPA	32.00	289	iPc	48	17.30	0.3	Z	16s	8.00um			5.6MszX		N	12s	7.70um					
BCK	32.21	284	eP	48	17.60	-1.4	E	10s	5.20um					E	12s	7.20um					
ALT	32.31	287	iPc	48	19.30	-0.6				ipP	49	37.00	202km				i	49	20.30	18kmX	
HRT	32.43	290	iP	48	21.10	0.4				isP	49	56.00					i	49	26.80		
YLV	32.68	290	iP	48	23.20	0.2				iPP	50	17.00					i	49	37.30		
KHT	32.70	124	iPd	48	25.00	1.8				iPcP	51	17.00					i	49	56.80		
TIY	32.77	75	iPc	48	24.80	1.0				iS	54	18.00					i	50	21.00		
			pP	49	08.50	212km	WHN	36.29	87	iPc	48	55.00	1.4				iS	54	58.00		
			sP	49	31.00					pP	49	37.00	195kmX	PSZ	38.94	303	iPc	49	18.40	2.8	
			S	53	28.00					sP	50	02.00		MCO	39.37	99	iP	49	20.60	1.4	
			sS	54	39.50					PcP	51	14.00		NJ2	39.37	82	iPc	49	20.00	0.8	
			SS	55	48.00					S	54	19.00					pP	50	07.00	223kmX	
			ScS	58	25.00					sS	55	34.00					sP	50	28.00		
KIS	32.84	302	iPc	48	24.00	-0.2				SS	56	56.00					PcP	51	23.00		
	1.0s	1700.00nm			6.6mb		CJR	36.45	301	eP	48	57.70	2.8				iS	55	06.00		
			ipP	49	07.00	208km	TIA	36.77	76	iPc	48	58.80	1.3	BUD	39.54	303	eP	49	20.00	-0.4	
			isP	49	28.00					sP	50	05.00			1.2s	260.00nm				5.7mb	
			iS	53	26.00					PcP	51	15.50		DL2	39.61	71	iPc	49	22.60	1.6	

12d 15h

			epP	50	09.00	220kmX				i	50	29.50	210km				SS	59	36.00				
			sP	50	30.00					e	50	50.00		NB2	44.41	323	P	49	59.30	-0.5			
			iS	55	11.00					i	52	29.70		KHE	44.48	357	iPc	50	02.00	1.9			
			isS	56	28.00					i	55	50.00			3.0s	6000.00nm			6.5mb				
SNG	39.72	130	iP	49	23.00	0.8	BRG	42.68	308	iPc+	49	46.60	0.6				ipP	50	47.00	209km			
	1.5s	2170.00nm			6.5mb			1.3s	460.00nm			5.8mb					isP	51	07.00				
			i	51	24.00					ipP	50	30.80	206km				iPcP	51	41.00				
			iS	55	12.50					isP	50	53.80					iPP	51	48.00				
HKC	39.76	99	iP	49	24.10	1.6				iScP	55	02.70					iS	56	19.00				
			iS	50	31.00					eS	55	54.00					isS	57	36.00				
SRO	40.00	303	iP	49	25.50	1.3				esS	57	04.00					iSS	59	38.00				
			e	50	09.90	209km	LJU	42.76	301	iPc	49	47.40	0.7	GRF	44.52	307	iPc	50	01.90	1.1			
			i	50	33.90					ipP	50	32.40	210km		1.4s	983.00nm			6.1mb				
			e	52	01.90					e(PcP)	52	31.20			Z 18s	9.50um			5.8Msz				
AAE	40.14	235	iP	49	28.20	2.2				eS	55	50.80					ipP	50	44.80	198kmX			
SNY	40.48	66	iPc	49	28.00	-0.2				e(sS)	57	07.20					esP	51	07.70				
			S	55	16.50		KMR	42.78	304	iP+	49	47.00	0.1	FUR	44.67	305	iPc	50	02.60	0.6			
ZST	40.79	304	iP	49	31.50	0.9				i	50	32.30	212km		1.4s	1140.00nm			6.1mb				
			i	50	15.90	208km	CEY	42.88	301	iPc	49	47.90	0.2				i	50	47.50	208km			
			i	50	39.00					ipP	50	32.40	207km				eS	56	24.50				
			iSn	51	12.10		KHC	43.04	306	iPc	49	49.50	0.5	MNS	44.73	296	iPc	50	02.50	0.0			
			iSg	52	13.60			1.2s	210.00nm			5.5mb			1.7s	800.00nm			5.9mb				
KEV	40.80	338	iPc	49	31.50	1.0				e	50	34.30	209km				iPP	51	35.50				
	0.7s	211.00nm			5.8mb					e	52	37.60		RMP	44.85	295	iPd	50	02.50	-1.0			
	Z 16s	29.20um			6.2MszX					e	56	00.00			1.4s	2.80nm			3.5mb X				
			ipP	50	13.90	198kmX	BRN	43.07	311	iPc	49	50.00	0.9				iPP	51	46.00				
			isP	50	37.50					ipP	50	35.00	210km				iS	56	24.00				
			ePP	51	04.00					eS	56	00.00		GIB	44.86	290	eP	50	03.00	-0.7			
			esPP	52	00.00		SGO	43.22	293	iPc	49	50.50	0.0		0.9s	1000.00nm			6.2mb				
			eS	55	20.00		CLL	43.25	309	iPc	49	50.60	0.0	OGA	45.03	303	iPc	50	04.40	-0.7			
			esS	56	40.00			1.6s	430.00nm			5.7mb			1.4s	442.00nm			5.7mb				
			eSS	58	28.00					ipP	50	35.70	210km	MUD	45.31	316	iPc	50	07.80	0.9			
UPP	41.10	322	iP	49	32.10	-0.9				iScP	55	06.40			1.0s	200.00nm			5.5mb				
	1.1s	2000.00nm			6.5mb					eS	55	57.00					i	50	23.00				
			ipP	50	16.20	206km	TRI	43.34	301	i(P)	49	51.00	-0.4				ipP	50	53.00	209km			
			iPP	51	08.80					ipP	50	36.60	213km	KGM	45.43	132	ePc	50	09.20	1.0			
			iS	55	19.20					i	50	56.00			0.5s	311.00nm			6.0mb				
			iS	55	30.00					i	51	53.00					e	56	38.00				
KSP	41.19	308	iPc	49	34.00	0.1				i	52	36.00		SAL	45.60	301	iPc	50	09.00	-0.3			
	1.6s	627.00nm			5.9mb					i(S)	56	04.00		OSS	45.66	303	eP+	50	09.10	-0.9			
			i	50	18.90	211km	KBA	43.43	303	iPc	49	52.40	0.0	TIK	45.70	22	iPc	50	09.50	-0.3			
			i	50	41.50			1.6s	1010.00nm			6.1mb			3.0s	6100.00nm			6.5mb				
VKA	41.31	304	iPc	49	35.60	0.7				ipP	50	37.30	209km		Z 13s	5.90um			5.7MszX				
	3.2s	1330.00nm			5.9mb X					iPP	52	03.20			N 10s	2.70um							
			i	49	40.30					eS	57	36.00			E 13s	4.10um							
			ipP	50	20.20	209km				i	57	50.20					ipP	50	55.00	210km			
			isP	50	39.80					i	59	29.30					isP	51	18.00				
			iPP	51	28.50		COP	43.48	315	iPc+	49	53.00	0.6				ePcP	51	42.00				
			iPPP	52	21.80			0.9s	471.00nm			6.0mb					ePP	51	59.00				
TSI	41.46	136	ePc	49	36.50	0.1				ipP	50	38.00	210km				ePPP	52	50.00				
	0.7s	639.00nm			6.2mb					iS	56	07.00					eS	56	36.50				
CN2	41.50	63	iPc	49	36.80	0.2	WET	43.50	306	iPd	49	52.90	0.2				esS	57	56.00				
			pP	50	23.00	217km		1.7s	250.00nm			5.4mb		PPI	45.75	137	iPc	50	11.20	0.4			
			sP	50	47.00					eS	56	07.00		SAX	46.10	304	eP+	50	12.60	-1.1			
			PP	51	20.80		KLM	43.56	133	ePd	49	54.40	0.9	VDL	46.15	303	eP+	50	13.00	-1.0			
			PcP	51	29.80					e	50	40.00	213km	TNS	46.23	308	ePc	50	14.80	0.5			
			S	55	37.00					e	51	37.80					e	51	22.00	328kmX			
			sS	56	55.00		BHG	43.66	304	iPc	49	54.10	0.1				eS	56	48.00				
SSE	41.57	82	iPc+	49	38.80	1.6		1.7s	850.00nm			6.0mb		VLA	46.24	62	iPd	50	13.00	-1.4			
	1.4s	4340.00nm			6.8mb		YAK	43.89	35	iPc	49	55.00	-0.6				ipP	51	01.00	222kmX			
	N 10s	2.55um						1.8s	4280.00nm			6.6mb					ePcP	51	49.00				
			pP	50	23.00	207km				ipP	50	40.00	209km				ePP	52	09.00				
			sP	50	45.00					iPcP	51	40.00					iS	56	47.00				
			(PP)	51	46.00					iPPP	52	27.00					isS	58	03.00				
			iS	55	37.00					iSS	59	26.00		LLS	46.40	303	eP+	50	14.70	-1.3			
			sS	56	46.00		HOF	44.03	308	iPc	49	57.30	0.3	SLE	46.58	304	eP+	50	15.80	-1.3			
BRT	41.75	293	eP	49	38.50	0.0		1.5s	452.00nm			5.7mb		BUH	46.60	306	ePc	50	16.40	-0.9			
ZAG	41.79	301	eP	49	35.80	-3.0X				i	50	42 10	208km	TMA	46.63	302	eP+	50	16.10	-1.6			
IPM	42.01	132	ePc	49	42.20	1.2				eS	56	04.50		ZUL	46.70	304	eP+	50	16.50	-1.6			
	0.9s	637.00nm			6.1mb		MOX	44.17	308	iPc+	49	58.50	0.5	VG1	46.72	300	iPc	50	20.00	1.8			
			i	49	52.40	35kmX		1.4s	503.00nm			5.8mb		BNS	46.93	309	iPc	50	19.90	0.2			
			e	50	31.90			Z 13s	3.70um			5.5MszX			1.6s	650.00nm			5.8mb				
			e	50	51.50			E 13s	2.90um								i	51	05.40	209km			
			e	51	24.60					ipP	50	44.00	212km	GWF	46.95	306	iPc	50	20.30	0.3			
			e	52	09.90					isP	51	06.00		WIT	47.01	312	iPc	50	21.10	0.8			
			e	55	38.20					i	52	06.00					ipP	51	06.80	210km			
QZH	42.03	92	iPc	49	42.00	1.0				ipPP	52	20.00					isP	51	30.00				
			pP	50	28.60	219km				isPP	52	48.00					ePP	52	19.50				
			sP	50	49.00					iS	56	16.00		WTS	47.02	310	iPc	50	20.60	0.2			
			PP	51	29.00					isS	57	32.00			1.2s	478.00nm			5.8mb				
			PcS	55	24.50					iSS	59	52.00					ipP	51	06.70	212km			
			ScS	59	17.00		AQU	44.22	296	eP	49	59.50	1.0				isP	51	27.70				
KIR	42.10	334	iP	49	41.20	0.1	MEI	44.24	288	iPc	49	57.50	-1.2				iPP	52	15.00				
PSI	42.33	136	ePc	49	43.40	0.0	ANP	44.27	90	iP+	50	02.50	3.3X				ipPP	52	47.00				
			eS	50	32.00					iS	56	25.00		STB	47.20	308	iPc	50	22.00	0.2			
PRU	42.35	307	iPc	49	44.50	1.2	MDJ	44.30	61	iPc	49	59.00	-0.1				i	51	07.70	210km			
	1.5s	365.00nm			5.7mb					S	56	16.00		MMK	47.26	302	eP+	50	21.00	-1.7			

CDF	47.27	305	iPc	50	22.00	-0.5	LDF	52.03	307	iPc	50	57.60	-1.0				eS	59	22.00				
	1.5s	207.00nm			5.3mb					pP	51	43.20	204km	ALM	57.55	294	iPc	51	37.00	-1.3		
			pP	51	07.40	208km	FLN	52.22	307	iPc	50	58.90	-1.0		1.0s	15.00nm				4.7mb	X	
ECH	47.38	305	iPc	50	22.80	-0.5				pP	51	44.30	203km				i	52	25.00	212km		
CVF	47.43	297	iPc	50	23.00	-0.7	LPO	52.23	302	iPc	50	59.70	-0.4				iPP	53	55.80			
			pP	51	08.00	206km				pP	51	45.30	204km				i	54	55.20			
KLL	47.52	309	iPc	50	24.20	-0.1	EKA	52.33	316	Pd	51	00.40	-0.2				iS	59	19.50			
			i	51	09.80	209km		1.2s	434.00nm			5.9mb		TAM	57.63	276	iP	51	20.00	-19.4X		
BAF	47.56	305	iPc	50	24.20	-0.6	LGP	52.38	102	eP	51	03.00	1.6	BNG	57.76	249	iPc	51	37.90	-2.2		
DIX	47.63	302	eP+	50	24.50	-1.1		1.0s	83.00nm			5.3mb			1.1s	295.00nm				5.9mb		
BSF	47.70	305	iPc	50	25.30	-0.5	LFF	52.46	302	iPc	51	01.40	-0.3	TRT	58.75	130	iPc	51	45.00	-1.8		
ENN	47.75	309	iPc	50	25.20	-0.8				pP	51	47.00	204km		1.3s	1150.00nm				6.4mb		
	1.1s	135.00nm			5.3mb		GRR	52.56	307	iPc	51	01.30	-1.1	MAL	59.03	295	iPc	51	46.50	-2.1		
			ipP	51	12.00	214km				pP	51	46.90	204km				ipP	52	34.00	208km		
			esP	51	33.00		MFF	52.58	305	iPc	51	01.50	-1.1				iS	59	32.00			
			iPcP	51	51.50		LPF	52.77	307	iPc	51	02.80	-1.2	ALE	59.03	354	iPc	51	48.10	0.0		
			ipPP	52	43.50			0.5s	76.00nm			5.5mb			0.5s	82.00nm				5.7mb		
WLF	47.78	307	P	50	27.00	0.7				pP	51	48.80	206km	REY	59.07	329	iP	51	49.70	1.2		
			pP	51	14.00	215km	MLS	52.82	300	iPc	51	03.00	-1.4				i	52	35.10	198kmX		
			e	51	39.00		MAT	52.85	69	iPc+	51	03.40	-1.3	AVY	59.42	206	iPc	51	51.50	-0.1		
			PP	52	27.00			1.4s	1220.00nm			6.3mb		SKR	59.86	47	iPc	51	51.60	-2.5		
			pPP	53	02.00		Z	20s	1.42um			5.0Msz			1.0s	540.00nm				6.2mb		
			S	57	09.00					eS	58	14.00			Z	14s	2.40um			5.5MszX		
			sS	58	17.00		EPF	53.32	300	iPc	51	06.50	-1.6		N	14s	2.30um					
			e	58	39.00		ABA	53.50	292	iP	51	08.00	-1.5		E	14s	1.40um					
HAU	47.96	305	iPc	50	27.30	-0.4	DDR	53.79	69	iPc	51	10.70	-1.0				ePcP	52	36.20			
DBN	48.01	311	e(P)	50	28.00	0.0	EBR	53.93	298	eP	51	12.00	-0.6				epP	52	40.30	213km		
Z	20s	3.30um			5.3Msz					eS	58	22.00					eS	59	46.00			
			epP	51	13.00	205km				ePS	58	30.00					eScS	01	18.40			
			esP	51	36.00		SRY	54.00	69	iPc	51	13.30	0.1				eSSS	06	28.40			
			iPPP	53	23.00		OYM	54.05	69	eP	51	12.40	-1.2	PTO	60.20	301	iPc	51	56.00	-0.5		
			iS	57	14.00		MGD	54.18	37	iPc	51	13.00	-1.1				i	52	42.70	203km		
			isS	58	42.00			1.2s	1050.00nm			6.3mb					iS	59	52.30			
			eSS	00	48.00		Z	14s	2.90um			5.5MszX		PET	60.44	44	iPc	51	55.00	-3.0		
BAG	48.02	101	iPc+	50	29.50	0.8	E	14s	2.70um						3.0s	2200.00nm				6.3mb		
			i	51	38.00	332kmX				epP	52	00.00	210km		Z	14s	2.10um			5.4MszX		
			eS	57	14.00					ePcP	52	19.00			N	14s	1.50um					
DOU	48.70	308	Pc+	50	32.70	-0.6				ePP	53	15.00			E	14s	1.50um					
			pP	51	18.80	210km				ePPP	54	37.00					ePcP	52	40.00			
			e	51	27.20					eS	58	31.00					ePP	54	12.00			
			sP	51	39.50					esS	59	53.00		SFS	60.45	295	iP	51	57.50	-0.7		
			PcP	52	02.00		SEY	54.35	34	iPc	51	15.30	0.0	MNI	60.57	112	eP	51	58.20	-1.2		
			PPP	53	14.00			2.5s	3400.00nm			6.5mb					e(S)	54	27.10			
			pPPP	53	41.30					ipP	52	02.80	212km	IFR	60.94	292	iPc	52	00.10	-1.8		
			S	57	21.00					iPcP	52	15.80		MKS	61.34	122	iPd	52	04.10	-0.4		
UCC	48.72	309	Pc+	50	32.80	-0.7				isP	52	24.80			1.0s	1080.00nm				6.5mb		
			pP	51	19.00	210km				iS	58	38.00		LIS	61.60	299	iPc	52	05.70	-0.2		
			PPP	53	14.00		TSK	54.40	68	iPc	51	14.30	-1.7	TET	63.26	221	iPc	52	17.00	0.0		
			S	57	24.00		ETA	54.70	313	iPc	51	16.80	-1.2				i	59	03.00			
FRF	48.75	299	iPc	50	33.00	-0.9		1.1s	355.00nm			5.9mb					eS	00	33.00			
			pP	51	18.50	207km	DLE	54.74	314	iPc	51	17.30	-0.9	ILT	63.67	23	iPc	52	19.00	-0.1		
LMR	48.91	299	iPc	50	34.00	-1.0		2.2s	2280.00nm			6.5mb			1.2s	1250.00nm				6.6mb		
	2.0s	512.00nm			5.6mb		DAG	54.75	344	iPc	51	17.20	-0.9		Z	16s	3.30um			5.6MszX		
			pP	51	19.80	208km		1.0s	870.00nm			6.4mb			N	16s	0.90um					
LRG	48.98	299	iPc	50	35.00	-0.6				i	58	42.00			E	16s	2.30um					
			pP	51	20.50	207km	KYS	54.81	69	iPc	51	18.60	-0.4				iPcP	52	53.00			
NAI	49.31	228	iPc	50	40.00	1.4	ECP	54.94	313	iPc	51	18.40	-1.3				ipP	53	08.00	211km		
	1.3s	577.00nm			5.9mb			1.2s	820.00nm			6.3mb					isP	53	30.00			
SHK	49.37	73	iPc	50	39.00	0.3	LEM	55.04	134	ePd	51	17.00	-4.0X				iS	00	36.00			
MAN	49.41	103	iP	50	40.50	1.3		1.0s	60.00nm			5.2mb	X				eScS	01	46.00			
LBF	49.74	304	iPc	50	40.70	-0.7				eS	52	48.00		AAI	66.48	114	ePc	52	36.50	-1.3		
			pP	51	26.20	206km	ECB	55.13	313	iPc	51	20.00	-1.1				eS	53	55.20			
LOR	49.76	305	iPc	50	40.30	-1.2		1.3s	1100.00nm			6.4mb		BRW	67.24	15	P	52	41.00	-0.8		
			pP	51	25.80	206km	DCN	55.15	314	iPc	51	20.40	-0.8	MBC	67.30	3	eP	52	43.00	0.9		
SSB	49.78	302	iPc	50	41.00	-0.7		1.8s	1770.00nm			6.5mb		KUPT	67.72	122	eP	52	44.50	-1.0		
SMF	49.92	304	iPc	50	42.00	-0.7	LGR	55.48	300	iPc	51	23.30	-0.5	GUMO	69.05	88	eP+	52	52.50	-1.2		
PGP	49.99	104	iPc	50	41.80	-1.8		1.6s	1.70nm			3.5mb	X				eS	01	41.50			
	1.0s	186.00nm			5.6mb					ipP	52	10.80	211km	GUA	69.11	88	eP	52	52.30	-1.9		
SSF	50.04	304	iPc	50	43.00	-0.6				iPP	53	43.50			1.4s	744.00nm				6.2mb		
			pP	51	28.60	206km				eS	58	57.50		IMA	72.06	18	iPc	53	11.00	-0.2		
AVF	50.21	304	iPc	50	44.00	-0.9	SHO	56.40	57	iPc	51	20.00	-10.2X	JOZ	73.49	216	e(P)	53	28.00	8.2X		
GRC	50.27	305	iPc	50	44.50	-0.8		1.0s	0.40nm					MBL	73.54	133	iPd	53	20.20	0.0		
			i	51	30.40	207km	Z	14s	1.10um			5.1MszX		INK	73.87	9	iPc	53	21.90	0.4		
MZF	50.86	304	iPc	50	49.40	-0.5	N	14s	5.00um								pP	54	11.00	206km		
KKM	51.14	115	iPc	50	54.20	1.8	E	14s	2.40um					SLR	73.94	220	iPc	53	21.90	-0.7		
	1.0s	1280.00nm			6.4mb					ePcP	52	17.00			1.2s	1630.00nm				6.6mb		
			e	51	33.00	171kmX				eS	58	56.00			Z	18s	2.27um			5.5Msz		
OKH	51.27	47	iPc	50	54.00	1.2	KUR	56.64	55	iPc	51	31.00	-0.8	ADK	73.94	37	eP	53	20.20	-2.0		
	2.0s	********	nm		7.0mb			1.0s	350.00nm			6.0mb		TTA	73.95	20	iPc	53	22.50	0.3		
			epP	51	41.00	212km				ipP	52	18.00	208km	PRE	74.00	220	iPc	53	23.00	0.0		
			ePPP	54	05.00					ePcP	52	26.00			1.0s	4160.00nm				7.1mb		
			iS	57	58.40					esP	52	40.00		EVA	74.17	219	iPc	53	24.00	0.0		
CAF	51.56	302	iPc	50	55.00	-0.2				iS	59	08.00		COL	74.41	16	iP	53	25.90	1.2		
			pP	51	40.50	204km	AKU	57.04	330	iP	51	34.90	0.5		Z	19s	3.13um			5.6Msz		
RJF	51.83	303	iPc	50	57.00	-0.1		1.6s	1080.00nm			6.3mb					e	54	14.00	201km		
			pP	51	42.50	204km				i	52	22.70	211km				eS	02	43.00			
SET	51.95	291	iP	50	56.00	-2.2	DAV	57.50	107	iP+	51	38.00	-0.2	FBA	74.41	16	iPc	53	24.80	0.1		

12d 15h

BPI	74.43	220	iPc	53	25.00	-0.5
MTN	74.83	119	iPc	53	26.50	-1.3
KIC	74.89	267	iPc	53	26.80	-1.4
			S	02	43.80	
FRB	75.06	343	iPc	53	27.80	-0.6
PRY	75.33	220	iPc	53	30.00	-0.6
	1.5s	1640.00nm			6.5mb	
SEK	76.39	219	iPc	53	31.50	-5.0X
VIR	76.58	219	iPc	53	37.50	0.0
	0.2s	422.00nm			6.8mb	
SWZ	76.65	221	iPc	53	37.00	-0.9
PME	76.90	18	iPc	53	38.40	-0.2
	1.3s	907.00nm			6.3mb	
			epP	54	29.00	211km
PMR	76.90	18	iPc	53	38.50	-0.2
MEK	77.07	137	iPc	53	39.60	-0.5
	0.8s	400.00nm			6.2mb	
BLF	77.76	219	iPc	53	43.50	-0.5
KIM	78.20	220	iPc	53	45.10	-1.3
	0.8s	1280.00nm			6.7mb	
KDC	79.19	22	iPc	53	51.70	0.6
BAL	79.30	141	iPc	53	51.50	-0.6
HVD	79.32	219	iPc	53	52.00	-0.4
	0.9s	737.00nm			6.4mb	
MUN	80.16	142	iPc	53	55.50	-1.1
MOM	80.22	100	eP	53	58.00	0.7
PCA	80.30	15	iPc	53	58.50	1.3
KLB	80.62	141	iPd	53	58.20	-0.9
GRM	80.99	216	iPc	54	01.70	0.7
	0.8s	1890.00nm			6.9mb	
			i	54	49.50	196kmX
YKA	81.21	3	eP	54	03.40	1.7
RSNT	81.22	3	iPd	54	01.70	0.0
			i	54	51.60	205km
YKC	81.23	3	iPc	54	02.00	0.2
			pP	54	52.00	206km
WBN	81.33	131	iPc	54	02.80	-0.1
	0.8s	130.00nm			5.7mb	
NWAO	81 44	142	iPd	54	02.80	-0.5
KLG	81.92	138	iPc	54	05.50	-0.3
WB2	81.94	122	iPc	54	05.50	-0.7
			i	54	58.00	216km
SCH	82.10	337	ePc	54	06.20	-0.4
	1.5s	954.00nm			6.3mb	
RKG	82.25	143	iPc	54	09.00	1.5
STJ	82.40	325	eP	54	08.50	0.4
	1.7s	1200.00nm			6.3mb	
LAT	82.70	104	eP	54	10.00	-0.2
SUR	83.15	221	iPc	54	13.20	0.9
	0.7s	1380.00nm			6.8mb	
KVG	83.23	98	iPc	54	13.50	0.6
SIT	84.12	14	P	54	17.90	1.2
ASPA	84.19	125	iPc	54	17.00	-0.6
FCC	84.26	352	iPc	54	18.20	0.9
	1.2s	1050.00nm			6.5mb	
PMG	84.52	106	iPc-	54	19.00	-0.3
	1.9s	4000.00nm			6.8mb	
TUH	84.74	221	iPc	54	21.50	1.5
LMG	84.98	105	eP	54	21.00	-0.8
RAB	85.30	99	iPc+	54	23.10	-0.2
BLE	85.47	221	iPc	53	25.00	-58.6X
	1.0s	400.00nm				
ISQ	86.06	119	Pc	54	26.40	-0.5
FFC	88.91	356	iPc	54	40.40	0.3
			pP	55	32.00	209km
CBM	89.22	333	P	54	45.00	3.3X
CTA	90.47	115	iPc	54	47.00	-0.7
	1.4s	2380.00nm			7.0mb	
			i	55	40.00	215km
			i	56	00.00	
			i	59	34.00	
			i	06	30.00	
			i(PKKP	12	15.80	
EDM	90.53	3	iPc	54	48.70	1.1
			pP	55	40.00	208km
PHC	91.61	12	ePc	54	53.50	0.9
	0.7s	160.00nm			6.2mb	
			pP	55	46.00	213km
RSON	91.96	350	iPd	54	54.30	0.1
			i	55	46.50	211km
BNH	92.36	334	iPc	54	56.50	0.3
MNT	92.36	336	eP	54	56.50	0.4
	1.6s	346.00nm			6.2mb	
OTT	93.12	337	ePc	55	00.50	0.8
	1.8s	778.00nm			6.5mb	
			pP	55	52.00	208km
RSNY	93.50	336	iPc	55	02.20	0.7
PTN	93.63	336	P	55	02.80	0.8
LHC	93.64	347	iP	55	02.50	0.5
	1.4s	835.00nm			6.7mb	
PNT	93.99	7	iPc	55	04.20	0.5
	1.0s	408.00nm			6.5mb	
			pP	55	56.00	210km
APH	94.12	336	P	55	05.00	0.6
PGC	94.20	10	eP	55	05.50	0.9
HNR	94.60	98	eP	55	05.00	-1.8
STK	94.73	126	iPc	55	05.80	-1.2
RXF	94.79	4	iPc	55	07.60	0.1
ADE	94.93	130	iPc	55	08.40	0.4
	1.0s	280.00nm			6.4mb	
LDM	95.19	4	iPc	55	09.30	0.1
NEW	95.26	6	iPc	55	09.30	-0.2
	1.1s	145.00nm			6.1mb	
			e	56	02.00	213km
LHD	95.37	4	iPc	55	10.00	-0.1
CLX	95.45	4	iPc	55	11.30	0.7
ELF	96.77	340	P	55	17.10	0.7
LDN	96.88	340	P	55	17.30	0.4
DLA	97.15	340	P	55	18.35	0.2
CMS	97.27	124	eP	55	18.00	-0.6
BFD	98.72	130	eP	55	24.00	-1.0
RSSD	99.60	356	iPd	55	29.80	0.3
TOO	100.80	129	ePdiff	55	34.00	-0.5
COO	100.87	120	ePdiff	55	34.00	-1.0
BDW	101.06	1	iPdiff	55	35.60	-0.2
	1.3s	33.60nm			5.7mb	
CAN	101.70	125	ePdiff	55	37.80	-0.8
			i	56	30.70	
			e	57	19.80	
			eScP	00	01.00	
BLA	102.03	337	ePdiff	55	40.00	0.0
	1.7s	127.00nm			6.3mb	
WDC	102.24	11	ePdiff	55	41.10	0.3
			e	56	31.80	
FVM	103.91	345	ePdiff	55	48.90	0.6
	1.6s	147.00nm			6.6mb	
MAW	104.01	183	iPdiff	55	49.20	1.3
	1.3s	57.00nm			6.3mb	
GLD	104.01	357	ePdiff	55	50.70	1.8
	1.4s	124.00nm			6.6mb	
	Z 22s	3.71um			5.9Msz	
GOL	104.07	357	iPdiff	55	50.00	0.7
	1.4s	44.40nm			6.2mb	
	Z 22s	3.53um			5.9Msz	
EUR	104.07	6	iPdiff	55	50.40	1.1
	1.0s	24.60nm			6.1mb	
MIR	104.13	171	ePdiff	55	49.00	0.5
KOU	104.39	105	iPdiff	55	50.10	-0.6
RSCP	105.03	341	ePdiff	55	53.20	-0.2
JAS	105.12	9	ePdiff	55	54.50	0.8
			e	56	45.80	
PVC	106.00	100	iPKPc	00	12.00	2.7X
RLO	106.53	348	ePdiff	56	00.60	0.6
GBO	106.86	348	ePdiff	56	02.10	0.7
TUL	106.90	349	ePdiff	56	01.80	0.2
	1.3s	71.70nm			6.7mb	
	Z 22s	2.52um			5.7Msz	
	N 23s	1.06um				
	E 20s	0.30um				
			e	08	25.50	
NOU	107.04	105	iPdiff	56	02.20	-0.3
NOU	107.04	105	iPKPc	00	11.30	0.1
ISA	107.62	8	ePdiff	56	05.00	0.1
ISA	107.62	8	ePKP	00	09.00	-3.0X
BHO	108.25	348	ePdiff	56	08.90	1.3
	1.5s	127.00nm			6.9mb	
ALQ	108.85	358	ePdiff	56	12.00	1.4
	Z 22s	3.70um			5.9Msz	
GLA	110.55	5	ePKP	00	19.00	1.4
ITR	110.86	275	ePKP	00	17.70	-1.0
			e	00	58.60	
HKT	112.74	348	PKP	00	22.10	0.4
JCT	112.80	352	ePdiff	56	28.50	0.5
	1.0s	9.50nm				
			e	56	36.00	
JCT	112.80	352	iPKP	00	22.00	0.0
	1.0s	50.00nm				
	Z 20s	2.31um			5.8Msz	
SOB1	113.10	276	ePKP	00	22.50	-0.5
VUN	114.24	95	iPKPd	00	24.60	-0.4
	1.0s	62.50nm				
NVL	115.02	198	iPKP	00	25.00	0.1
	1.2s	160.00nm				
			iPP	01	32.00	
			ePS	11	12.00	
DRV	115.35	156	iPKP	00	24.50	-1.2
			e	01	28.00	
			e	02	39.00	
CAR	118.80	311	ePKP	00	33.30	-0.7
	0.9s	70.60nm				
RHP	120.10	125	PKP	00	34.70	-0.8
MZX	120.54	357	ePKP	00	37.10	0.2
TOV	121.07	313	ePKP	00	38.60	0.4
	1.0s	173.00nm				
TCW	121.82	120	PKP	00	36.80	-2.0
WEL	122.20	120	iPKPd	00	38.60	-0.9
	1.0s	608.00nm				
			pP	00	50.70	
BAO	122.43	274	iPKP	00	40.00	-0.8
UAV	122.80	314	iPKPd	00	41.50	-0.2
	1.0s	333.00nm				
BMA	123.02	265	iPKP	00	42.80	1.1
IIC	123.27	349	ePKPd	00	42.30	-0.3
IIP	123.63	349	ePKP	00	43.40	0.0
CRX	123.69	350	ePKP	00	43.10	-0.4
IIT	123.85	348	ePKPd	00	43.30	-0.4
III	124.67	349	ePKPd	00	45.60	0.4
VHO	125.30	346	iPKP	00	41.00	-5.5X
ACX	126.21	349	ePKP	00	48.10	0.1
SPA	126.35	180	ePKPd	00	45.80	-1.2
	1.0s	465.00nm				
SBA	126.59	165	iPKP	00	46.60	-0.4
			S	02	46.00	
FUO	126.84	314	ePKP	00	49.50	-0.2
BOG	127.71	314	ePKP	00	50.50	-0.9
CHN	128.32	316	ePKP	00	49.50	-2.8X
ITB	132.11	268	PKP	00	52.50	-6.5X
ITB1	132.18	268	PKP	00	55.20	-3.9X
ITB7	132.23	268	PKP	00	50.10	-9.2X
PSO	132.37	315	ePKP	00	46.00	-14.4X
LPB	138.82	288	PKP	01	03.00	-9.4X
			i	01	12.50	
PAE	139.54	73	ePKP	01	08.00	-5.1X
	1.1s	230.00nm				
YJA	139.91	279	e(PKP)	01	03.60	-10.7X
SLA	141.16	275	ePKPd	01	07.00	-9.1X
ARE	141.35	291	ePKP	01	10.00	-6.8X
LM2	142.44	302	ePKP	01	14.00	-4.3X
CYA	143.02	270	ePKPd	01	13.50	-5.6X
TCA	143.14	265	ePKPc	01	14.50	-4.7X
TPL	143.60	282	ePKP	01	17.50	-2.6
ANT	144.59	280	iPKP	01	20.30	-1.5
			i	02	10.00	
VCA	145.08	271	ePKPc	01	22.40	-0.3
CFA	146.16	266	ePKPd	01	23.00	-1.3
CEN	146.56	267	ePKP	01	26.00	1.0
MDZ	147.06	264	iPKP	01	25.50	-0.2
RFA	147.28	261	ePKPc	01	26.00	0.0
BACH	148.51	264	iPKP	01	29.40	1.4
			i	01	32.80	
PCH	148.61	264	iPKPd	01	28.50	0.3
PEL	148.61	265	ePKP	01	27.50	-0.7
SAN	148.68	264	ePKPc	01	28.00	-0.2
CHCH	148.80	263	iPKPc	01	28.10	-0.3
TACH	148.95	264	iPKPd	01	28.50	-0.1
RKT	153.81	67	ePKP	01	37.00	1.1
	1.2s	185.00nm				

S.D. = 1.0 on 455 of 491 obs.

OCT 04, 1983 18h 52m 12.18± 0.33s
26.523 S ± 1.8km 70.571 W ± 2.4km
DEPTH = 8.8 ± 1.9 km
6.3mb (57 obs.) 7.3Msz (17 obs.)

NEAR COAST OF NORTHERN CHILE (122)

At least 5 people killed, 24 injured and extensive damage (VIII) in the Copiapo-Chanaral area. A 1.5 meter uplift near Chanaral was reparted and same roads were blocked by landslides. Minor tsunami recarded at Valparaisa. Felt in Chile fram Iquique ta Santiago. Felt in Argentina and at La Paz, Bolivia and Saa Paula, Brazil. This appears ta be a multiple event.

ANT	2.81	3	iPc+	52	59.50	1.4
TLL	3.64	183	iP	53	08.50	-1.6
FSA	4.11	85	ePc	53	25.00	8.4X

04d 18h

CAC	4.26	20	iP	53	23.10	4.1X		0.8s	104.00nm		6.1mb		DUG	77.14	328	iPc	04	08.10	0.2
TPL	4.42	4	iP	53	19.90	-1.0				iS	11	23.20		SUR	77.38	120	iPc	04	10.20	0.5
CEN	5.28	163	eP	53	35.20	2.0	NAV	64.22	351	eP	02	48.60	-1.1		1.1s	139.00nm			6.0mb	
MDZ	6.51	167	iP	53	51.20	0.6	NA12	64.53	354	iPd	02	51.50	-0.1	BDW	77.75	332	iPc	04	10.10	-1.3
			iS	55	13.60		CVL	64.59	353	eP	02	51.40	-0.6	EUR	78.14	326	iP	04	14.00	0.4
PEL	6.60	181	iPd	53	47.70	-4.1X	OLY	64.78	341	eP	02	50.70	-2.6		1.0s	56.20nm			5.6mb	
BACH	6.81	179	eP	53	52.50	-2.2	BHO	64.80	338	iPc	02	52.40	-1.0	BEI	78.19	330	eP	04	13.50	-0.2
			e	53	53.00		LST	65.26	343	eP	02	55.30	-1.0	PRI	78.20	321	ePc	04	14.00	0.2
SAN	6.91	181	iPd	53	55.50	-0.6	POW	65.30	342	ePd	02	54.90	-1.7	FRI	78.27	322	eP	04	14.20	0.2
TCA	7.10	134	ePd	53	59.00	0.1	ELC	65.85	344	iPc	02	58.20	-1.9	MNA	78.48	324	eP	04	15.20	-0.2
LPB	10.20	14	Pc+	54	43.20	0.9	GBO	66.25	338	iPc	03	04.70	2.0	SAO	79.09	321	eP	04	18.00	-0.5
TMU	12.30	187	iPd	55	08.50	-1.8	MRG	66.39	352	iP	03	02.70	-0.8	TMI	79.20	331	eP	04	19.20	-0.1
			i	57	45.00		RLO	66.48	339	iPc	03	03.80	-0.4	IMW	79.25	332	eP	04	19.40	-0.2
ITB1	14.72	86	P	55	49.60	7.2X	TUL	66.51	338	iPc+	03	03.20	-1.2	JAS	79.36	322	ePc	04	19.70	-0.3
ITB	14.86	87	P	55	55.90	11.7X		1.0s	1600.00nm			7.2mb					ePKKP	23	29.00	
LM2	15.61	336	eP	55	55.00	1.0	Z	21s	151.00um			7.2Msz					eP'P'	31	42.50	
			eS	00	21.50					eS	11	54.00					e	35	00.00	
NNA	15.62	337	iP	55	56.00	1.7	PRIN	66.66	357	eP	03	05.30	0.1	BMN	79.48	326	eP	04	20.00	-0.8
	0.5s	35.20nm				4.9mb X	OCO	66.74	336	ePc	03	04.00	-1.9	ARN	79.55	321	eP	04	21.50	0.4
			eS	01	00.00		FVM	66.82	343	eP	03	04.00	-2.3	MHC	79.61	321	eP	04	21.60	0.1
VAO	21.71	86	eP	57	05.90	0.2	GMTN	67.14	357	iP+	03	10.90	2.6	RSON	79.71	345	ePc	04	20.50	-1.1
BAO	23.65	67	iPc	57	25.00	0.1	PAL	67.25	357	P	03	14.00	5.1X	RAR	80.13	251	P	04	24.00	-0.5
RDJ	25.09	88	iP+	57	39.20	0.6	GPD	67.29	357	eP	03	09.00	-0.2				S	14	59.00	
PSO	28.31	346	iP	58	10.50	1.7	INY	68.84	355	P	03	18.50	-0.4	BKS	80.32	321	eP	04	25.40	0.3
BOCO	31.11	353	P	58	35.00	1.3	LDN	69.90	352	P	03	23.65	-1.7		2.0s	1670.00nm			6.7mb	
BOG	31.15	353	eP	58	34.00	0.0	ALQ	69.93	329	iPc+	03	25.40	-0.6		Z 20s	30.00um			6.6Msz	
CHN	31.68	350	iP	58	39.00	0.5		Z 18s	103.00um			7.1Msz			N 20s	70.00um				
FUQ	31.95	354	eP	58	42.00	0.9				e	03	32.50			E 20s	90.00um				
SOB1	32.95	64	eP	58	49.20	-0.3	ELF	70.07	352	P	03	24.80	-1.6				i	04	32.80	
BMG	33.48	355	eP	59	00.00	5.9X	APH	70.11	357	eP	03	26.50	-0.1				i	04	52.00	
GUV	34.89	13	iPc	59	04.70	-1.5	TBI	70.51	253	iP	03	31.70	2.1				e(PP)	08	06.00	
	0.9s	33.30nm				5.2mb X		1.5s	280.00nm			6.2mb					iS	14	34.00	
UAV	34.93	359	eP	59	07.60	0.9	BNH	70.77	359	ePc	03	31.00	0.4				e(PPS)	16	34.00	
	1.0s	233.00nm				6.0mb	RSNY	70.82	357	eP	03	30.40	-0.5				e	18	55.00	
SDV	35.20	360	eP	59	08.50	-0.5	PTN	70.86	357	ePc	03	30.50	-0.7				eSS	20	11.00	
ITR	35.21	66	eP	59	09.90	0.9	EMM	70.97	2	eP	03	32.30	0.5				e	22	25.00	
TOV	36.10	1	eP	59	15.30	-1.2	KIC	71.59	73	iP	03	35.90	-0.4				e	23	17.80	
LGN	36.45	359	e(P)	59	25.00	5.6X				e	13	22.00					eSSS	23	29.80	
	0.6s	50.00nm				5.5mb	OTT	71.72	356	eP	03	36.00	-0.3	SCH	81.07	2	ePc	04	27.50	-1.2
CAR	36.98	6	iPc	59	23.00	-0.9		1.5s	1590.00nm			6.9mb			0.7s	310.00nm			6.5mb	
	1.5s	611.00nm				6.1mb	MNT	71.73	358	eP	03	35.50	-0.9	LRM	81.43	332	ePc	04	31.20	0.1
OHC	37.74	171	iPd	59	30.00	0.3		1.2s	2000.00nm			7.1mb		MIN	81.71	323	eP	04	31.20	-1.4
SJS	38.54	338	eP	59	39.00	1.9	RUV	71.76	262	iP	03	39.00	1.8	HVD	81.76	120	iPc	04	35.70	2.5
BIM	41.83	14	eP	00	03.10	-1.0				ipP	04	00.30	81kmX		1.2s	324.00nm			6.3mb	
MVM	41.90	14	eP	00	03.30	-1.4	VAH	71.96	262	iP	03	40.10	1.7				i	04	59.40	
MDN	42.53	13	eP	00	08.50	-1.3		1.6s	260.00nm			6.1mb		RMT	81.99	322	eP	04	35.00	1.3
MGG	43.13	13	eP	00	14.00	-0.7				ipP	04	01.40	81kmX	KIM	82.00	118	iPc	04	34.50	0.0
PAG	43.17	13	eP	00	11.50	-3.6X	TPT	72.05	262	iP	03	40.90	1.9		1.2s	360.00nm			6.3mb	
SEG	43.57	13	eP	00	14.60	-3.7X		1.6s	335.00nm			6.2mb					i	04	48.80	
BPA	44.13	12	eP	00	19.00	-3.8X				ipP	04	02.30	81kmX	WDC	82.38	323	ePc	04	34.20	-1.6
SJG	44.57	6	eP	00	24.00	-2.5	PMO	72.29	262	iP	03	42.40	2.0				ePKKP	23	22.00	
	1.0s	1400.00nm				6.8mb		1.6s	275.00nm			6.1mb					eP'P'	31	37.00	
	Z 18s	110.00um				6.8Msz				ipP	04	03.60	80kmX				e	34	56.50	
SSU	45.09	336	eP	00	33.10	2.5	TVO	72.40	259	iP	03	43.30	2.2	LGBM	82.73	323	eP	04	37.40	-0.6
VHO	50.38	327	iP	01	11.00	-1.1		1.6s	475.00nm			6.3mb					ipP	04	45.50	26kmX
SOR	50.47	345	iPc	01	13.00	0.5				ipP	04	04.40	80kmX	BLF	82.95	119	iPc	04	38.50	-0.9
	Z 22s	219.00um				7.1Msz	PPN	72.66	259	iP	03	44.60	2.1				i	05	19.00	
ACX	51.67	323	eP	01	23.00	1.3		1.6s	105.00nm			5.7mb		SWZ	83.12	117	iPc	04	38.50	-1.8
IIT	52.67	326	eP	01	31.30	1.7				ipP	04	05.40	78kmX		0.3s	40.00nm			6.1mb	
III	52.72	325	eP	01	30.70	0.9	GLA	72.67	322	eP	03	41.50	-0.8	FHC	83.32	322	eP	04	41.20	0.4
IIP	53.25	326	eP	01	35.10	1.2				ipP	03	50.20	28kmX	VIR	83.94	118	iPc	04	44.20	-0.3
TAC	53.44	326	iP	01	34.00	-1.2	PAE	72.73	259	iP	03	45.00	2.0				i	05	04.00	
CRX	53.69	325	eP	01	38.80	1.7		1.6s	405.00nm			6.3mb		PNO	84.09	328	eP	04	44.00	-0.5
RKT	58.01	258	iP	02	16.40	8.5X				ipP	04	06.00	79kmX	SEK	84.43	119	iPc	04	47.50	0.5
	1.4s	135.00nm				5.8mb	PPT	72.77	259	iP	03	45.80	2.6		0.9s	516.00nm			6.8mb	
MZX	60.39	322	eP	02	25.10	0.9		1.6s	455.00nm			6.3mb					i	05	05.50	
HKT	61.14	335	iP	02	27.40	-1.8				ipP	04	06.40	78kmX	SES	84.55	335	eP	04	37.50	-9.3X
PRM	61.30	349	eP	02	29.00	-1.3	AFR	72.96	259	iP	03	46.20	1.9	KSR	84.96	116	iPc	04	46.50	-3.2X
ATX	62.26	333	iP	02	35.20	-1.6		1.6s	165.00nm			5.9mb		FFC	85.31	342	eP	04	49.00	-1.4
NVL	62.72	158	iPc	02	39.00	-0.4				ipP	04	07.20	79kmX		1.0s	76.00nm			5.9mb	
	Z 19s	109.00um				7.0Msz	CBM	73.14	2	iPc	03	40.90	-3.8X	NEW	85.34	331	eP	04	50.30	-0.4
			ipP	02	51.00	41kmX	GLD	73.42	333	iPd	03	46.80	0.0				e	05	12.00	
			isP	02	59.00			1.5s	1080.00nm			6.7mb		BPI	85.73	117	iPd	04	51.70	-1.8
			iPcP	03	19.00			Z 21s	116.00um			7.1Msz					i	04	57.00	
			iPPP	06	28.00		GOL	73.44	333	eP+	03	46.00	-1.0	PRE	86.05	117	eP	04	54.00	-1.1
TKL	63.09	348	eP	02	39.10	-3.1X		1.2s	693.00nm			6.6mb		SLR	86.13	117	iPc	04	54.20	-1.3
JCT	63.20	332	iP	02	41.20	-1.9	STJ	75.48	12	ePc	03	57.50	-0.7		1.3s	258.00nm			6.2mb	
	1.0s	550.00nm				6.7mb		1.0s	1410.00nm			7.0mb					i	05	08.40	
	Z 20s	78.00um				6.9Msz	TUH	75.74	120	eP	03	57.00	-3.2X	SHW	86.18	327	e(P)	04	55.30	0.2
			eS	11	13.00		CER	75.83	120	iP	04	00.50	-0.2	LON	86.37	328	ePd	04	55.00	-0.9
PWLA	63.37	344	eP	02	41.50	-2.6		0.6s	95.00nm			6.1mb		EVA	86.41	118	eP	04	56.50	-0.4
RSCP	63.40	346	iPc+	02	42.90	-1.4	LHC	76.46	347	iPc	04	02.80	-0.9				i	05	05.00	
SPA	63.63	180	ePd	02	43.80	-2.0		1.1s	935.00nm			6.8mb		BFW	86.87	327	eP	04	58.10	-0.3
	1.0s	379.00nm				6.5mb	RSSD	76.69	336	iPc	04	05.70	0.2	SFS	87.15	47	iPc	05	04.00	4.2X
	Z 20s	57.50um				6.8Msz	WKTM	76.70	322	eP	04	06 40	0.9				i	05	24.00	
			e	02	57.00		SCCM	77.07	320	eP	04	08.00	0.5				iPP	08	30.00	
BLA	64.07	351	ePc	02	47.70	-1.0				ipP	04	15.40	24kmX				iPPP	10	50.00	

04d 19h

			iSKS	15	20.00		DCN	96.55	33	eP	05	48.80	5.8X	SAX	102.61	43	ePdiff	06	11.20	0.2
			iS	15	57.00			1.2s	345.00nm			6.8mb		SAL	102.65	45	ePdiff	06	12.00	1.2
			iSS	22	00.00		MFF	96.59	41	iPc	05	43.50	0.1	MNS	102.73	49	ePdiff	06	12.00	0.8
FCC	87.19	348	ePc	04	59.10	-0.4	ETA	96.69	34	eP	05	47.50	3.8X				e	10	30.00	
	1.2s	778.00nm				6.8mb		2.3s	1760.00nm			7.2mb		OSS	102.86	44	ePdiff	06	12.00	0.0
PNT	87.22	330	eP	05	00.00	0.1	LPF	96.83	39	iPc	05	44.10	-0.4	BNS	102.93	39	iPdiff	06	12.50	0.6
	0.9s	388.00nm				6.7mb	DLE	96.87	33	eP	05	50.00	5.5X				ePP	10	27.50	
GMW	87.41	328	eP	05	00.20	-0.7		1.3s	630.00nm			7.0mb					eS	19	07.00	
MAL	88.48	47	iP+	05	07.00	0.8	RJF	96.90	43	iPc	05	45.00	0.1	POI	102.98	49	ePdiff	06	13.00	0.7
			iPP	09	00.00		CAF	97.04	43	iPc	05	46.00	0.4	WTS	103.18	38	ePdiff	06	14.50	1.5
			iS	16	16.00		DMU	97.05	32	eP	05	47.90	2.6		1.2s	83.00nm			6.4mb	
PGC	88.50	328	eP	05	06.40	0.4	HON	97.08	290	P	05	56.00	9.9X				e	06	31.00	
GNZ	88.85	227	P	05	17.00	8.9X	GRR	97.12	39	iPc	05	45.40	-0.4				e	09	35.50	
			pP	05	32.00	51kmX	KIP	97.13	290	eP	05	57.00	10.6X	AQU	103.20	49	ePdiff	06	20.20	6.8X
			i	05	48.00		LSF	97.39	42	iPc	05	47.30	0.2	PCA	103.21	331	ePdiff	06	11.00	-2.1
			PP	09	09.80		FLN	97.53	39	eP	05	47.60	0.0	WIT	103.46	37	ePdiff	06	17.00	2.8X
ALR	88.95	49	iP	05	06.00	-2.5	LDF	97.65	39	iPc	05	48.00	-0.1				e	06	32.50	
			i	05	15.00		TCF	97.82	42	eP	05	48.90	-0.1				e	09	39.50	
			i	05	19.00			1.2s	90.40nm			6.3mb		OGA	103.49	44	iPdiff	06	15.60	0.8
			i	05	29.00		MZF	98.01	42	iPc	05	50.00	0.1	CTI	103.55	45	ePdiff	06	16.00	1.0
BUL	88.99	112	iPc+	05	09.00	-0.3	REY	98.03	19	eP	05	52.20	2.7	DUI	103.65	50	ePdiff	06	22.00	6.7X
	0.8s	270.00nm				6.6mb				i	06	05.80					e	09	53.50	
Z	21s	229.00um				7.6Msz	SSB	98.74	44	eP	05	53.80	0.6	GRF	104.75	42	iPdiff	06	20.70	0.6
N	21s	131.00um					CDR	98.75	46	ePc	05	54.00	0.8	Z	19s	263.00um			7.8Msz	
E	21s	168.00um								e	09	33.30					e	06	35.40	
			iPP	08	43.00		AVF	98.76	42	eP	05	53.10	-0.1				e	06	37.70	
			iS	15	58.00		GRC	98.84	41	iPc	05	53.20	-0.3				eSKS	17	01.00	
CRT	89.28	47	iPc	05	10.20	0.1				i	05	55.30		TRI	104.77	46	ePdiff	06	19.10	-1.1
MNG	89.36	224	P	05	11.00	0.4	SMF	98.98	42	iPc	05	54.30	0.1				iPP	10	30.10	
			e	05	35.00		SSF	98.98	42	iPc	05	54.00	-0.2				iPPP	12	40.00	
WEL	89.41	223	P	05	12.00	1.2	LRG	99.02	46	iPc	05	55.40	1.0				iSKS	16	50.00	
			PP	08	34.00		LMR	99.06	46	iPc	05	55.40	0.8				iSKKS	17	18.00	
			SKS	15	39.00		LBF	99.22	42	iPc	05	55.20	-0.2				eS	17	50.00	
			S	16	03.00		FRF	99.26	46	iPc	05	56.30	0.7				eSP	19	24.00	
TCW	89.76	223	P	05	13.60	1.2	LOR	99.29	42	iPc	05	55.40	-0.2				eSPP	20	27.00	
FRB	89.98	1	eP	05	12.00	-0.6	EKA	99.66	32	Pd	06	02.30	5.2X				eSS	25	37.00	
RHP	90.48	219	eP	05	17.00	1.2		1.4s	102.00nm			6.2mb					eSSS	29	19.00	
			i	05	39.30		CVF	100.26	48	iPdiff	06	00.70	0.4	RBL	104.93	45	ePdiff	06	23.50	2.5X
			e	05	55.20			0.8s	52.40nm			6.1mb		NAI	104.93	99	ePdiff	06	20.00	-2.0
			ePKKP	22	45.10		AKU	100.27	19	ePdiff	06	19.00	19.3X	KBA	105.03	45	iPdiff	06	22.80	1.2
			ePKKP	22	54.10			2.1s	587.00nm						1.5s	243.00nm			6.9mb	
			e	30	51.00		Z	18s	275.00um			7.8Msz					i	06	33.80	
			e	31	06.00					e	10	35.40					i	06	37.50	
TOL	90.52	45	iPc	05	16.00	0.2	NPA	100.29	113	ePdiff	06	09.00	8.0X				i	06	51.70	
			i	05	37.00					e	06	19.00					i	07	21.90	
			i	05	43.00					ePP	09	47.00					i	10	12.50	
			iPP	09	11.00					e	12	41.00					i	10	20.70	
			iPPP	11	08.00		ERC	100.85	53	ePdiff	06	10.00	7.0X				i	10	25.20	
			iSKS	15	38.00		DIX	100.90	44	ePdiff	06	04.20	0.8				iPP	10	51.30	
			iS	16	05.00		ORO	101.05	44	ePdiff	06	04.00	0.2				(SKS)	17	27.00	
			i	17	50.00					e	10	13.00		INK	105.10	340	ePdiff	06	21.00	-0.2
			iSS	22	20.00		DOU	101.07	39	Pdiff	06	03.40	-0.3		1.4s	125.00nm			6.7mb	
			i	23	10.00					e	06	12.80		CEY	105.21	46	ePdiff	06	23.00	0.7
			iSSS	26	05.00					PP	10	19.00					e	06	26.00	
			i	29	31.00					SKKS	17	02.00					e	09	48.00	
KRP	90.87	226	P	05	18.00	0.4				PS	19	11.00					ePP	10	48.00	
			pP	05	33.00	51kmX				SPP	19	38.00					eSKS	17	02.40	
			i	05	41.70		HAU	101.12	42	ePdiff	06	03.80	-0.2	MOX	105.36	41	ePdiff	06	23.00	0.2
			S	16	16.00			1.0s	45.60nm			6.0mb			3.8s	375.00nm			6.7mb X	
BCAO	91.16	86	iPc	05	19.00	-0.3	MMK	101.23	44	ePdiff	06	05.50	0.7		Z 24s	7.20um			6.1MszX	
BNG	91.17	86	iPc	05	19.50	0.1	UCC	101.27	39	Pdiffc	06	05.20	0.7		N 26s	181.00um				
	1.2s	100.00nm				6.0mb				PP	09	56.80			E 24s	482.00um				
KRI	91.37	109	iPc	05	20.00	-0.4				e	10	21.00					ePP	10	45.00	
			iPP	08	59.00					S	17	12.00					iSKS	17	20.00	
PHC	91.80	328	eP	05	29.00	7.7X	BSF	101.31	42	ePdiff	06	04.50	-0.5				ePS	20	20.00	
LGR	92.93	43	ePc	05	29.00	2.2		1.5s	148.00nm			6.4mb					ePKKP	22	30.00	
			iPP	09	00.00		VG1	101.45	45	ePdiff	06	06.00	0.6				iSS	25	45.00	
			eSKS	15	58.00		CDF	101.86	42	ePdiff	06	07.00	-0.4				iSSS	30	00.00	
			eS	16	17.00			0.9s	37.40nm			6.0mb		HAM	105.52	38	iPdiff	06	24.50	1.2
			iPS	17	24.00		ZUL	102.12	43	ePdiff	06	08.50	0.0	KMR	105.89	44	e(Pdif	06	26.00	0.8
MTD	93.05	110	iPc	05	28.00	-0.1	ENN	102.14	39	ePdiff	06	09.50	1.1	KHC	105.96	43	Pdiff	06	28.00	2.5X
			iPP	09	25.00			1.0s	48.00nm			6.1mb			Z 24s	158.00um			7.5MszX	
ABA	93.55	50	iP	05	36.50	6.7X				e	06	25.50			N 23s	154.00um				
VAL	94.26	33	iP	05	32.00	-0.6				e	09	34.50			E 23s	163.00um				
			iS	17	15.00		LLS	102.23	44	ePdiff	06	09.50	0.3				e	10	23.90	
EPF	95.00	44	iPc	05	37.20	0.8	SLE	102.31	43	ePdiff	06	09.00	-0.3	BER	106.09	30	iPdiff	06	31.20	5.5X
YKC	95.36	341	ePc	05	36.70	-0.8	GWF	102.32	41	ePdiff	06	09.50	0.2	MUD	106.31	35	ePdiff	06	36.00	9.2X
	0.8s	72.00nm				6.2mb	DBN	102.33	38	ePdiff	06	11.00	1.8		1.2s	60.00nm			6.5mb	
RSNT	95.40	341	ePc	05	37.20	-0.4	Z	19s	256.00um			7.8Msz		NOU	106.50	234	iPKPc	10	46.20	6.5X
YKA	95.41	341	eP	05	38.40	0.7				ipP	06	30.00		TOA	106.69	332	ePdiff	06	26.50	-2.0
MLS	95.43	44	iPc	05	38.60	0.3				ePP	09	58.00		BRG	106.82	41	ePdiff	06	31.00	1.7
LFF	96.24	43	eP	05	42.10	0.2				eSKS	16	50.00			1.5s	30.00nm			6.1mb	
GDH	96.30	6	iPd	05	43.60	2.0				ePPS	19	37.00					i	06	45.90	
	1.0s	40.00nm				5.9mb	FIR	102.35	47	ePdiff	06	15.00	5.5X				e	07	13.50	
			iS	17	03.00					i	10	29.00					eSKS	17	25.00	
LPO	96.38	43	eP	05	43.00	0.4	VDL	102.36	44	ePdiff	06	10.00	0.2				ePKKP	22	12.50	
	1.4s	228.00nm				6.5mb	RDP	102.49	50	ePdiff	06	17.00	6.7X				eP'P'	30	36.00	

04d 19h

PRU	106.86	42	ePdiff	06	29.80	0.4	SUF	116.26	31	iPKP	10	52.00	-5.0X	SVE	134.07	35	ePKP	11	16.00	-15.3X
	Z 25s	375.00um			7.8MszX			0.9s	8.20nm								i	11	32.10	
		e	06	46.50			SOD	116.94	26	iPKP	10	58.50	0.3				isPKP	11	50.20	
		e	10	05.00						i	11	07.00		KAT	134.18	60	iPKPc	11	32.40	0.4
		e	11	05.00						ePKKP	21	32.00					esPKP	11	54.00	
		iS	17	28.00			KJF	117.12	29	ePdiff	07	16.00	1.3				ePP	14	05.00	
BRN	106.95	40	ePdiff	06	31.00	1.2	KEV	117.23	23	ePdiff	07	16.00	0.9				eSKS	18	41.00	
TTG	107.25	51	ePdiff	06	32.00	0.6	SIM	118.30	51	ePdiff	07	24.00	3.5X				eSP	24	08.00	
		e	10	16.00				Z 24s	325.00um				7.9MszX	PET	135.03	320	ePKP	11	31.00	-2.1
		eS	17	18.00				N 24s	261.00um								ePS	24	28.00	
VKA	107.34	44	iPKP	10	37.70	-2.8		E 24s	388.00um								e	32	20.00	
	6.5s	5510.00nm								eSKS	18	02.00		PET	135.03	320	PKP	11	35.00	1.9
		iPP	10	56.80						eSSS	32	48.00		PET	135.03	320	ePdiff	08	37.00	2.4X
		e	11	07.00			APA	119.52	25	PKP	11	03.00	-0.1	NRI	135.30	11	ePKP	11	15.00	-18.2X
		SKKS	17	26.50			APA	119.52	25	ePdiff	07	28.00	2.6X				i	11	33.00	
KON	107.75	32	iPdiff	06	34.00	0.8	NWAO	120.42	188	ePKP	11	03.00	-2.9X				iPP	14	09.00	
PMR	107.76	331	ePdiff	06	31.00	-2.2	ANN	120.52	52	ePKP	11	05.50	-0.1	NRI	135.30	11	PKP	11	33.00	-0.2
	Z 20s	160.00um			7.6Msz			N 20s	160.00um					MTN	135.54	211	ePKP	11	25.00	-10.3X
ZST	107.80	45	e(Pdif	06	41.00	7.3X		E 20s	160.00um					MTN	135.54	211	ePKP	11	50.00	14.7X
		e	07	41.00						epPKP	11	18.80		VAN	135.61	62	ePKP	11	33.60	-1.2
		e	08	20.00			ANN	120.52	52	ePdiff	07	26.00	-4.3X		Z 24s	20.30um			6.8MszX	
		e	09	57.00			OBN	121.03	40	iPKP	11	05.00	-1.3				esPKP	11	55.00	
		e	10	16.00						iPP	12	35.00					ePP	14	20.00	
		e(PP)	11	15.00						iSKS	18	04.00		ASH	135.81	62	ePKP	11	35.00	-0.2
OHR	107.88	53	ePdiff	06	32.00	-2.3X				iPPS	23	50.00			4.0s	2310.00nm				
KSP	108.20	42	ePdiff	06	38.00	2.6X	OBN	121.03	40	iPdiff	07	34.00	1.7		Z 24s	210.00um			7.8MszX	
		iPP	11	03.00			ILT	121.11	335	PKP	11	04.00	-2.1		N 20s	52.90um				
SRO	108.44	45	ePdiff	06	36.50	0.0	MUN	121.47	187	ePKP	11	06.00	-1.9				epPKP	11	48.00	
		e(PP)	10	50.50			CTA	121.50	221	iPKP	11	06.80	-1.5				iPP	14	14.00	
		e(SKS)	17	38.50			MOS	121.64	39	PKP	11	07.00	-0.4				ePPP	17	15.00	
COL	108.49	334	ePdiff	06	36.00	-0.4	KLG	121.87	192	ePKP	11	10.00	1.3	TZZ	135.88	229	ePKP	11	36.00	-0.1
FBA	108.49	334	ePdiff	06	36.40	0.0	SOC	122.06	54	ePKP	11	06.00	-2.7X	MGD	136.16	331	ePKP	11	25.40	-9.7X
SKO	108.62	52	iPdiff	06	39.00	1.5	SOC	122.06	54	ePdiff	07	40.00	2.7X				e	11	32.00	
SKO	108.62	52	iPKP	10	38.00	-5.1X	MSL	123.58	62	ePKP	11	12.00	0.1				ePP	14	14.00	
		iPP	11	15.00						i	11	30.50		SKR	137.21	317	PKP	11	34.00	-3.4X
		iSKKKS	19	11.00						i	12	51.50		SKR	137.21	317	ePKP	11	38.00	0.6
		iPS	21	08.00						e	15	43.50			1.0s	220.00nm				
ATH	108.97	56	ePdiff	06	41.00	1.9	ISO	124.70	215	ePKP	11	12.00	-2.5				epPKP	11	54.50	
GRG	108.98	53	iPdiff	06	42.50	3.3X	LEN	124.77	57	ePKP	11	14.00	-0.2				esPKP	11	55.60	
		ePP	11	06.00				3.0s	800.00nm								ePP	14	24.80	
		eS	17	04.00						eSKS	18	15.00		YAK	142.00	345	iPKPd	11	37.20	-8.5X
		eS	17	19.80			WBN	125.10	199	ePKP	11	14.00	-1.1		0.9s	100.00nm				
		iS	17	40.00			ERE	125.19	58	iPKPd	11	14.00	-1.0	SAM	142.44	59	iPKPc	11	39.00	-8.3X
N82	109.01	31	Pdiff	06	46.80	8.0X	SMY	125.85	317	ePKP	11	10.50	-5.2X		7.0s	********nm				
	0.9s	7.50nm						Z 20s	95.00um				7.5Msz				iPP	14	50.50	
SSR	109.75	49	ePdiff	06	55.00	12.5X	GRO	126.36	54	iPKP	11	16.00	-1.0				iPPP	18	09.00	
HFS	109.86	32	(Pdiff	06	54.80	12.3X				iPP	13	09.00		TAS	143.91	56	PKP	11	47.70	-2.0
SPC	110.09	44	ePdiff	06	44.80	0.7	KER	126.43	66	ePKP	11	19.50	1.8	DSH	143.96	60	iPKPc	11	46.20	-3.8X
MMB	110.13	53	ePdiff	06	54.00	9.7X	MEK	126.45	190	ePKP	11	14.00	-3.8X		Z 27s	90.00um			7.4MszX	
KRA	110.16	43	ePdiff	06	38.00	-6.1X		0.7s	24.00nm								ePP	14	58.00	
		e	07	02.00			GRS	126.52	59	iPKP	11	15.60	-2.1				eSS	33	38.00	
		i	11	20.00						iPPP	16	03.20		KUR	144.11	311	PKP	11	47.00	-2.8X
		iS	17	42.00			GRS	126.52	59	ePdiff	08	07.00	9.6X	GUA	144.38	256	e(PKP)	11	47.50	-3.7X
CLO	110.53	49	ePdiff	06	50.00	4.1X	KRV	126.63	58	iPKP	11	21.00	3.3X		1.0s	736.00nm				
IMA	111.20	334	ePKP	10	40.00	-7.4X				iPP	13	23.00		GUMO	144.44	256	e(PKP)	11	48.00	-3.3X
UZH	111.23	45	ePdiff	06	50.00	1.1	WB2	127.86	210	iPKP	11	19.00	-1.6	KUL	144.80	61	iPKPc	11	49.40	-2.0
UZH	111.23	45	iPKP	10	49.00	1.2				i	11	42.20					isPKP	12	09.50	
	Z 19s	150.00um			7.6Msz					i	16	04.70		GAR	145.09	59	iPKP	11	50.00	-1.9
		ipPKP	11	04.00						i	24	23.00					iPP	15	10.00	
		eSKS	17	20.00			WRA	127.87	210	PKPd	11	17.60	-3.0X	KOD	145.75	112	ePKP	11	54.00	0.0
AAE	111.24	90	ePdiff	06	54.00	3.8X		0.7s	29.40nm					NVS	145.81	27	PKP	11	52.80	0.4
WAR	111.44	41	e(Pdif	06	52.00	2.2X	LMG	128.49	232	ePKP	11	21.00	-1.1	KHO	146.26	62	iPKPc	11	53.80	-0.3
		e	07	12.00			PMG	128.84	231	ePKP	11	23.00	0.4		6.0s	********nm				
		e	11	20.00				Z 20s	44.30um				7.1Msz	ANR	146.30	56	iPKPc	11	54.20	0.4
		e	11	44.00			BAK	129.32	58	iPKP	11	24.00	1.3		2.0s	3100.00nm				
EZN	111.48	55	ePKP	10	29.00	-19.6X				iPP	13	36.00			Z 25s	230.00um			7.9MszX	
CJR	111.54	48	ePdiff	06	57.20	6.8X	TEH	130.09	64	ePKP	11	24.00	-0.6		N 25s	330.00um				
UPP	111.67	33	iPdiff	06	51.00	0.5	TIK	133.56	352	ePKP	11	20.00	-9.8X		E 25s	330.00um				
		i	07	12.00				Z 26s	230.00um				7.8MszX				ePP	15	22.00	
		iPP	11	40.00				N 27s	295.00um					YSS	146.76	317	iPKPc	11	55.00	0.8
		iSKS	17	45.00				E 25s	150.00um						0.8s	120.00nm				
		i	21	14.00						e	11	26.00					eSSS	39	46.00	
IZM	111.76	57	ePKP	10	30.00	-19.2X				epPKP	11	39.00		MKS	146.98	199	iPKPd	11	56.50	0.9
BUC1	112.54	51	ePdiff	06	55.00	0.2				esPKP	11	42.00		SEM	147.34	35	iPKPc	11	54.90	-0.1
LVV	112.64	44	ePdiff	06	56.00	0.8				ePP	13	55.00			2.2s	2470.00nm				
		iPP	11	40.00						eSKS	18	39.00					esPKP	12	13.00	
		iSKS	17	26.00						ePS	24	22.00		FRU	147.35	51	PKP	11	56.00	0.6
VRI	113.41	49	ePdiff	07	15.50	16.8X				ePPS	26	00.00		GBA	147.42	107	PKP	11	55.00	-1.2
BAC	113.70	48	ePKP	10	55.00	2.4				eSSS	36	41.00		BOD	148.51	355	iPKPc	11	55.80	-0.9
ISK	113.83	55	ePdiff	07	05.00	4.3X	TIK	133.56	352	PKP	11	26.00	-3.8X		1.1s	1970.00nm				
KBS	114.40	12	iPKP	11	06.00	12.9X	MOM	133.64	238	ePKP	11	30.00	-1.7	NRN	148.76	53	PKP	11	57.00	-1.1
GPA	114.55	56	ePKP	10	41.00	-13.6X	SEY	134.03	334	ePKP	11	27.00	-4.0X	KSH	149.30	57	PKPc	12	00.00	1.3
KIS	115.11	48	ePdiff	07	07.00	0.8		Z 24s	203.00um				7.8MszX	MIY	149.93	304	ePKP	12	01.00	1.6
	Z 23s	299.00um			7.8MszX			N 24s	1230.00um					HYB	150.03	101	ePKP	12	00.00	-0.3
		iPP	11	53.00				E 24s	94.00um						1.0s	1120.00nm				
		iSKS	18	01.00						ePP	13	59.50		PRZ	150.09	50	ePKP	12	00.00	0.1
NUR	115.23	33	ePdiff	07	06.00	-0.4				eSS	31	47.50			1.2s	110.00nm				

04d 19h

			esPKP	12	20.00					sPKP	12	34.00						e	33	16.30		
			ePPP	19	07.00					e	13	36.00			PSO	27.96	345	iP	31	34.00	1.4	
CBI	150.81	279	ePKP	12	06.00	4.8X				e	13	49.00			BOCO	30.73	353	P	31	58.50	1.0	
TUP	151.07	347	ePKPc	12	00.90	0.3				PP	17	25.00			BOG	30.77	353	iP	31	58.50	0.7	
	1.2s	1070.00nm					TIY	168.56	348	iPKPc	12	20.50	0.0					eS	37	03.00		
NDI	151.42	78	ePKP	12	02.00	0.0				sPKP	12	34.00			CHN	31.31	350	iP	32	03.50	1.2	
	0.8s	418.00nm								e	13	28.00			FUQ	31.58	354	iP	32	04.50	-0.3	
BKB	151.45	196	ePKPc	12	16.30	13.8X				PP	17	18.00			SOB1	32.74	64	eP	32	14.30	-0.4	
PPI	151.80	161	ePKP	12	02.40	-0.6				SKS	19	08.00						e	32	28.60		
UER	152.41	21	iPKP	12	02.00	-0.7	NJ2	170.10	306	PKPc	12	21.00	-0.4		UAV	34.55	359	eP	32	30.50	0.0	
	1.2s	1060.00nm								PP	17	31.50			SDV	34.82	360	eP	32	32.20	-0.6	
NII	152.60	302	ePKP	12	06.00	2.6				SKS	19	25.50				0.8s	60.00nm				5.5mb	
MAT	153.60	299	(PKP)	12	04.00	-1.0	QZH	171.59	261	iPKPc	12	23.00	0.7		ITR	35.01	66	eP	32	33.70	-0.7	
IRK	154.00	7	PKP	12	05.00	0.0				pPKP	12	34.00						e	32	47.90		
PSI	154.25	155	ePKPc	12	05.80	-0.6				e	13	51.00			TOV	35.72	1	eP	32	39.50	-0.8	
	1.0s	38.60nm								PKS	15	52.00			LGN	36.07	359	iP	33	04.00	20.8X	
TSI	154.85	154	ePKPd	12	07.90	0.7				iPP	17	44.50			CAR	36.59	6	iPc	32	46.00	-1.8	
KGM	154.94	165	ePKPc	12	09.30	2.0				SKS	19	20.00				1.2s	344.00nm				6.0mb	
			e	16	09.00		XAN	172.50	3	iPKPc	12	23.50	1.0		BIM	41.45	14	eP	33	26.75	-1.3	
VLA	155.33	318	iPKPd	12	08.00	1.0				e	13	44.50			MVM	41.52	14	eP	33	27.10	-1.5	
WMQ	155.35	40	iPKPc	12	07.00	-0.1				PP	17	37.00			FDF	41.64	14	eP	33	27.40	-2.2	
			e	12	36.00					SS	38	30.00			MDN	42.15	13	eP	33	30.00	-3.8X	
ZAK	155.71	10	iPKPc	12	07.60	0.3	CD2	173.37	47	iPKPc	12	24.00	1.0		MGG	42.75	13	eP	33	38.00	-0.7	
	4.3s	3150.00nm								sPKP	12	41.00			PAG	42.79	13	eP	33	36.00	-3.1X	
			e	12	28.00					e	13	55.00			SEG	43.19	13	eP	33	38.00	-4.2X	
			eSKS	19	03.60					ePP	17	48.50			BPA	43.75	12	eP	33	43.00	-3.8X	
MDJ	155.72	323	PKPc	12	06.00	-1.5	HKC	173.97	227	iPKP	12	25.00	1.7		SJG	44.19	6	iPc	33	48.40	-2.0	
			sPKP	12	21.00		WHN	174.10	314	PKPc	12	23.50	0.4			0.9s	185.00nm				5.9mb	
			PP	16	26.00					PP	17	54.00				Z 22s	23.70um				6.1Msz	
			SKS	19	05.00		GZH	175.06	227	iPKPc	12	25.00	1.4		SOR	50.12	345	iP	34	36.00	-0.9	
IPM	156.75	158	ePKPd	12	09.40	-0.4	GYA	177.52	91	PKPc	12	24.00	-0.2			0.8s	70.00nm				5.7mb	
			e	12	53.20					sPKP	12	40.00						ipP	34	44.00	27kmX	
			e	13	39.10					e	14	10.00						eS	41	42.00		
			e	14	52.10					PP	18	05.00			ACX	51.40	323	eP	34	47.40	0.7	
			e	17	08.00					SKS	19	23.00			IIT	52.38	326	eP	34	55.40	1.0	
DMN	158.32	82	PKP	12	10.40	-1.3				SKKS	24	55.00			III	52.43	325	eP	34	55.50	0.7	
	1.0s	94.00nm								SS	39	56.00			IIP	52.96	326	eP	35	00.30	1.5	
CN2	158.42	327	iPKPc	12	09.30	-1.6		S.D. = 1.1		on 348 of 442 obs.					CRX	53.40	325	eP	35	03.50	1.5	
			sPKP	12	24.00										MZX	60.11	322	eP	35	49.80	0.4	
			e	12	46.00			OCT 09, 1983 11h 25m 38.84± 0.38s							HKT	60.82	335	iP	35	53.60	-0.5	
			PP	16	26.00			26.141 S ± 1.6km 70.521 W ± 2.3km							JSC	60.95	350	eP	35	53.10	-1.8	
			sPP	16	40.00			DEPTH = 6.5 ± 2.2 km							ATX	61.94	333	iP	36	00.60	-1.2	
			SS	36	25.00			5.9mb (73 obs.) 6.3Msz (23 obs.)										S	44	21.00		
SHK	158.47	297	ePKPc	12	11.10	-0.2		NEAR COAST OF NORTHERN CHILE (122)							NSLM	62.32	337	iP	36	05.00	0.8	
KKN	158.48	81	PKP	12	10.60	-1.2		Felt (V) at Copiapo, (IV) at							TKL	62.73	348	eP	36	05.10	-1.8	
PKI	158.58	82	PKP	12	10.80	-1.2		Chanaral and (III) in the										epP	36	14.60	31kmX	
	1.0s	100.00nm						Antofagasta area.							JCT	62.89	332	iP	36	06.80	-1.3	
PLP	158.83	227	ePKPc	12	16.00	3.9X										0.9s	265.00nm				6.4mb	
	1.0s	145.00nm					ANT	2.43	2	iPc+	26	21.30	1.7			Z 20s	5.32um				5.7Msz	
SNG	159.01	155	iPKPc	12	12.00	-0.4				i(S)	26	56.50						iS	44	45.00		
SNY	160.80	326	iPKPc	12	12.50	-1.0	TLL	4.02	184	iPd	26	41.60	-0.8		PWLA	63.02	344	eP	36	06.00	-2.8	
			pPKP	12	28.00					i	26	42.90			RSCP	63.04	346	ePc	36	07.10	-1.9	
			e	12	59.00		TPL	4.03	4	iP	26	59.20	16.8X			0.9s	398.31nm				6.6mb	
			PP	16	40.00		FSA	4.05	90	ePc	26	50.00	7.3X					epP	36	17.30	33kmX	
			SS	36	52.00		SLA	4.76	74	iPc	27	00.10	7.2X		NVL	63.06	158	iPc	36	08.00	-0.7	
NNT	163.41	145	ePKP	12	15.60	-1.3				(S)	27	56.80				1.2s	480.00nm				6.6mb	
LSA	163.56	75	PKPc	12	18.20	0.9	CEN	5.63	164	eP	27	08.00	2.8					ipP	36	15.00	23kmX	
			e	13	11.20		CFA	5.80	160	ePc	27	10.00	2.5					isP	36	25.00		
			PP	16	59.20					S	27	26.50						iPcP	36	41.00		
QCP	163.93	225	ePKP	12	26.00	8.7X	YJA	6.05	50	ePc	27	16.20	4.8X					iS	44	34.00		
DL2	163.96	323	iPKPc	12	16.50	-0.2	JACH	6.52	181	iP	27	16.70	-1.0					iSP	44	53.00		
			sPKP	12	30.00		ROCH	6.82	183	iPd	27	20.20	-1.9					iScS	45	57.00		
			e	13	28.00		PEL	6.98	181	iP	27	22.50	-1.6		BLA	63.70	351	eP	36	12.20	-1.1	
			PP	17	17.00		BACH	7.19	180	eP	27	26.00	-1.0		SPA	64.01	180	iPd	36	13.90	-1.4	
KHT	164.54	137	ePKP	12	22.80	4.9X	SAN	7.29	181	eP	27	25.70	-2.7			1.2s	852.00nm				6.8mb	
GTA	164.84	30	iPKPc	12	18.50	0.8	TCA	7.34	136	ePc	27	29.50	0.3			Z 21s	16.50um				6.2Msz	
			PP	17	00.00		PCH	7.45	180	iPd	27	30.30	-0.5		NA12	64.16	354	eP	36	15.40	-0.8	
			SKKS	23	39.00		TACH	7.50	183	iPc	27	28.90	-2.4		CVL	64.22	353	eP	36	16.30	-0.3	
			SS	37	25.00		CHCH	7.77	181	eP	27	32.50	-2.6		OLY	64.43	341	eP	36	15.80	-2.3	
BAG	165.55	228	iPKPc+	12	18.00	-1.0	LNV	7.83	185	iPd	27	31.60	-4.3X		BHO	64.47	338	iPc	36	17.00	-1.3	
CVP	165.56	235	ePKP	12	19.00	0.3	ARE	9.67	354	iP	27	58.50	-3.3X		GRT	64.58	343	eP	36	17.50	-1.5	
HHC	165.60	353	PKPc	12	19.50	1.2	LPB	9.82	14	Pc+	28	05.00	1.0		LST	64.91	343	eP	36	20.90	-0.2	
			PP	17	02.50					iS	30	15.00			ELC	65.50	344	ePc	36	22.90	-2.0	
BTO	165.95	358	PKPc	12	19.00	0.4	ZOBO	10.07	13	iPc	28	08.00	0.4		GBO	65.91	338	ePc	36	26.10	-1.5	
			sPKP	12	34.00		CON	10.87	191	eP	28	12.00	-5.9X		MRG	66.02	352	iPd	36	27.20	-1.0	
			e	13	20.00					i	28	38.50			RLO	66.15	338	e(P)	36	27.30	-1.8	
			PP	17	04.50		ITB1	14.66	88	iP	29	11.40	2.8		TUL	66.17	338	iPc+	36	28.10	-1.2	
			SS	37	36.00		HUA	14.74	341	eP	29	14.10	3.9X			1.4s	574.00nm				6.6mb	
PCT	166.04	146	ePKP	12	20.70	1.6				iS	32	11.10				Z 22s	4.40um				5.6Msz	
	0.8s	20.70nm					ITB7	14.78	90	iP	29	11.70	1.5			N 22s	1.02um					
			e	17	11.70		ITB	14.80	88	P	29	13.90	3.5X			E 19s	1.03um					
NST	166.16	139	iPKPd	12	19.00	-0.2	LM2	15.28	335	eP	29	18.60	1.8					eS	45	15.50		
BDT	166.63	132	ePKP	12	19.00	-0.6				eS	33	39.00			SIO	66.20	337	eP	36	28.40	-1.1	
	1.1s	274.00nm					NNA	15.29	336	iP	29	18.00	1.1		OCO	66.41	336	eP	36	28.80	-2.1	
CHG	167.65	126	ePKPc	12	20.50	0.2		0.1s	2390.00nm				7.5mb X		FVM	66.47	343	iPd	36	30.10	-1.0	
	1.1s	69.60nm					VAO	21.64	87	eP	30	31.80	-0.2		GPD	66.91	357	eP	36	33.50	-0.4	
TIA	168.32	328	PKP	12	19.60	-0.7	BMA	24.24	88	eP	30	58.50	1.0					epP	36	43.80	33kmX	

09d 11h

			esP	36	49.10		ARN		79.28	321	eP	37	48.10	1.4	TCW	90.07	223	P	38	42.60	1.7
DHN	68.98	354	eP	36	46.40	-0.5	MHC		79.34	321	eP	37	48.00	0.9				pP	38	51.80	29kmX
DLA	69.41	351	P	36	47.55	-1.9	RSON		79.35	345	ePc	37	45.60	-1.1	TOL	90.21	45	iPc	38	42.50	1.0
LDN	69.53	352	P	36	48.40	-1.8	BKS		80.05	321	eP	37	52.30	1.5				iPP	42	30.00	
ALQ	69.63	329	ePc	36	50.80	-0.4			1.4s	169.00nm		5.8mb						ePPP	44	17.00	
	1.0s	104.00nm		5.9mb				Z	20s	7.00um		6.0Msz						eSKS	48	52.00	
	Z 20s	15.40um		6.2Msz				N	20s	9.00um								iS	49	34.00	
		e	37	02.00				E	20s	4.20um								iPS	51	04.00	
ELF	69.70	352	P	36	49.50	-1.7					eS	47	58.00					eSS	55	10.00	
APH	69.73	357	eP	36	50.50	-0.9					eSS	53	06.00					eSSS	58	43.00	
BNH	70.39	359	eP	36	53.20	-2.2	LRM		81.12	332	ePc	37	56.70	0.1	BCAO	91.08	86	P	38	46.50	0.5
RSNY	70.44	357	iPc	36	54.70	-1.0	MIN		81.43	323	eP	37	57.50	-0.7	KRP	91.16	226	Pd	38	47.40	1.4
PTN	70.49	357	eP	36	55.60	-0.3	GRM		81.57	123	iPd	37	58.50	-0.6				e	38	57.00	
EMM	70.59	2	eP	36	56.70	0.2			1.0s	78.00nm		5.7mb			KRI	91.46	109	iPc	38	48.00	0.1
TBI	70.66	253	eP	37	00.00	2.4		Z	22s	10.70um		6.2Msz						i	39	39.00	
	1.2s	100.00nm		5.8mb							i	38	13.50					iPP	42	30.00	
SBA	71.02	191	iP	36	59.40	0.5	RMT		81.71	322	eP	37	59.70	0.3	MSZ	91.64	217	P	38	48.00	-0.1
		eS	46	18.00							e	38	00.60		LGR	92.62	43	iPc	38	55.00	2.6
MIM	71.05	1	eP	36	58.90	-0.4	HVD		81.91	120	iPc	38	03.20	2.1				ePP	42	38.50	
OTT	71.35	356	ePc	37	00.50	-0.6			1.4s	230.00nm		6.1mb						eS	49	51.00	
	1.0s	89.00nm		5.8mb			LGBM		82.45	323	eP	38	03.60	0.0	MTD	93.14	110	iPc	38	56.00	0.4
		pP	37	12.00	38kmX						i	38	04.50					epP	39	10.00	47kmX
KIC	71.44	73	iPc	37	01.80	-0.6					epP	38	15.20	38kmX				iPP	42	38.00	
RUV	71.86	262	eP	37	06.00	1.1	FHC		83.05	322	eP	38	07.60	1.2	EBR	93.63	46	eP	38	58.00	0.9
	0.8s	25.00nm		5.4mb			BLF		83.10	119	iPd	38	07.00	-0.3				e	42	48.00	
VAH	72.06	262	eP	37	07.00	0.9					i	38	26.00					e	49	42.00	
	0.8s	30.00nm		5.4mb			SWZ		83.25	117	iPc	38	06.50	-1.5				e	50	22.00	
TPT	72.15	262	eP	37	08.00	1.4			1.0s	220.00nm		6.3mb			VAL	93.91	33	iP	38	56.00	-2.1
	0.8s	20.00nm		5.3mb			VIR		84.08	118	iPd	38	11.50	-0.8				S	49	40.00	
PMO	72.39	262	eP	37	10.00	2.0					i	38	41.00		EPF	94.69	44	eP	39	02.90	0.9
	0.8s	30.00nm		5.4mb			FFC		84.96	342	eP	38	15.00	-0.7		1.4s	66.60nm			5.9mb	
GLA	72.40	322	eP	37	08.10	0.3			1.3s	77.00nm		5.8mb			YKC	95.02	341	eP	39	02.50	-0.5
		i	37	09.40			NEW		85.03	331	eP	38	15.30	-0.9		1.0s	33.00nm			5.7mb	
		ipP	37	19.00	36kmX				1.2s	60.00nm		5.7mb			RSNT	95.05	341	eP	39	02.70	-0.4
TVO	72.52	258	eP	37	11.00	2.1	BPI		85.86	117	iPc	38	19.00	-2.3	YKA	95.07	341	eP	39	06.80	3.6X
	0.8s	45.00nm		5.6mb			LON		86.08	327	eP	38	20.60	-0.9	MLS	95.12	44	iPc	39	05.20	1.3
CBM	72.76	2	eP	37	05.30	-4.2X					i	38	22.10		GDH	95.91	6	ePd	39	06.00	-0.9
PAE	72.85	258	eP	37	13.00	2.2	PRE		86.18	117	eP	38	22.00	-0.8		1.5s	111.00nm			6.1mb	
	0.8s	20.00nm		5.3mb							i	38	51.00					iSKS	50	02.00	
AFR	73.08	258	eP	37	14.00	1.9	SLR		86.26	117	iPd	38	21.60	-1.6				iS	50	35.00	
	0.8s	30.00nm		5.4mb					1.3s	126.00nm		5.9mb			LFF	95.93	43	eP	39	07.90	0.3
GLD	73.10	333	iPd	37	12.20	0.2		Z	18s	55.50um		7.0Msz				1.4s	125.00nm			6.2mb	
	1.4s	270.00nm		6.2mb							i	38	50.00		LPO	96.07	43	eP	39	08.70	0.4
GOL	73.12	333	iPc	37	12.00	-0.2	LIS		86.33	43	iPd	38	23.60	0.7		1.4s	75.40nm			6.0mb	
	1.0s	46.00nm		5.5mb			EVA		86.55	118	iPc	38	24.30	-0.3	MFF	96.27	41	eP	39	09.10	0.0
PV06	73.33	330	ePc	37	13.70	0.3	BFW		86.58	327	eP	38	24.20	0.2		1.4s	118.00nm			6.2mb	
PV07	73.50	330	ePc	37	14.30	0.0					e	38	25.30		LPF	96.51	39	eP	39	09.60	-0.5
PV10	73.63	329	eP	37	15.20	0.0	SFS		86.86	47	iPc	38	26.80	1.3		1.5s	117.00nm			6.2mb	
MMU	74.54	328	eP	37	20.20	-0.3					iPP	42	38.00		RJF	96.59	43	eP	39	10.70	0.1
		i	37	22.00							iS	49	08.00			1.4s	79.80nm			6.1mb	
		epP	37	32.50	42kmX						iPS	50	01.00		CAF	96.74	43	eP	39	11.60	0.3
SDW	74.80	322	eP	37	21.70	-0.2					eSS	55	02.00			1.4s	42.90nm			5.8mb	
STJ	75.10	12	ePc	37	22.50	-0.6	PNT		86.91	330	eP	38	25.00	-0.5	GRR	96.80	39	eP	39	10.80	-0.6
	1.2s	390.00nm		6.3mb					0.9s	46.00nm		5.7mb				1.3s	61.10nm			6.0mb	
MSU	75.22	327	eP	37	24.60	0.3	GMW		87.11	328	eP	38	26.40	-0.1	LSF	97.08	42	eP	39	12.90	0.1
NOP	75.42	323	ePc	37	25.40	0.0					epP	38	37.70	36kmX		1.5s	85.50nm			6.1mb	
PRN	75.80	325	iPc	37	28.20	0.6	EDM		87.35	336	eP	38	21.50	-6.1X	FLN	97.21	39	eP	39	12.90	-0.3
TUH	75.89	120	iPc	37	28.00	-0.2			1.4s	511.00nm		6.6mb				1.4s	81.60nm			6.2mb	
	1.2s	100.00nm		5.8mb			MCW		87.93	328	eP	38	30.60	0.2	LDF	97.32	39	eP	39	13.70	-0.1
CER	75.98	120	iPc	37	28.60	-0.1	PTO		88.14	42	iP	38	31.80	0.2		1.3s	54.00nm			6.0mb	
	1.3s	300.00nm		6.2mb							eS	49	18.00		TCF	97.51	42	eP	39	14.60	-0.1
LHC	76.10	347	ePc	37	27.40	-1.4	MAL		88.19	47	iPc	38	32.60	0.7		1.5s	49.50nm			5.9mb	
	0.9s	114.00nm		6.0mb							iPP	42	12.00		MZF	97.70	42	eP	39	15.70	0.2
VPEM	76.20	322	ePc	37	30.40	0.5					iPPP	44	27.00			1.5s	51.60nm			6.0mb	
RSSD	76.36	336	eP	37	30.90	0.2					iS	49	20.00		SSB	98.44	44	ePc	39	19.10	0.2
WKTM	76.43	322	eP	37	31.90	0.8	PGC		88.20	328	eP	38	31.60	0.0	AVF	98.44	42	eP	39	19.00	0.2
SCCM	76.80	320	eP	37	34.50	1.4	BUL		89.09	112	iPc+	38	37.00	0.1		1.4s	43.10nm			5.9mb	
DUG	76.84	328	eP	37	32.90	-0.5			1.3s	144.00nm		6.1mb			CDR	98.45	45	ePc	39	18.30	-0.7
		i	37	35.10				Z	22s	40.00um		6.8Msz			SMF	98.67	42	eP	39	20.30	0.4
BDW	77.44	332	iPc	37	36.80	0.1		N	21s	19.40um						1.4s	114.00nm			6.4mb	
	1.4s	97.70nm		5.7mb				E	22s	22.20um					SSF	98.67	42	eP	39	19.60	-0.3
SUR	77.53	120	iPc	37	38.20	0.6					ipP	38	50.00	43kmX		1.5s	53.40nm			6.0mb	
	1.1s	106.00nm		5.9mb							iPP	42	05.00		LRG	98.73	46	eP	39	21.30	1.1
	Z 22s	30.90um		6.6Msz							iS	49	24.00			1.5s	207.00nm			6.6mb	
PHAM	77.57	320	eP	37	39.30	2.0	GNZ		89.14	227	P	38	39.40	2.8	LMR	98.77	46	eP	39	21.20	0.8
EUR	77.85	326	iP	37	39.50	0.5					pP	38	47.00	24kmX		1.5s	144.00nm			6.4mb	
	0.5s	43.20nm		5.8mb							e	39	38.00		LBF	98.91	42	eP	39	20.70	-0.3
BEI	77.88	330	eP	37	39.80	0.7	FRB		89.59	1	eP	38	37.00	-0.9		1.5s	47.50nm			5.9mb	
PRI	77.94	321	eP	37	40.20	0.8	MNG		89.66	224	P	38	40.20	1.1	FRF	98.96	46	eP	39	22.20	0.9
FRI	78.00	322	eP	37	39.10	-0.5			1.0s	92.00nm		6.0mb				1.5s	175.00nm			6.5mb	
MNA	78.20	324	eP	37	41.90	1.0					pP	38	49.00	27kmX	LOR	98.98	42	eP	39	20.80	-0.5
SAO	78.82	321	eP	37	44.30	0.1	WEL		89.72	223	P	38	40.00	0.7		1.5s	51.30nm			6.0mb	
TMI	78.89	331	eP	37	44.90	0.2		Z	19s	15.30um		6.4Msz						pP	38	51.00	35kmX	EKA	99.32	32	Pc	39	22.10	-0.5
		i	37	56.00							S	49	09.00			1.4s	50.90nm			6.0mb	
JAS	79.09	322	iPc	37	45.90	0.3					SKS	49	26.00		CVF	99.97	47	eP	39	26.40	0.4
		eP'P'	04	44.00							SS	55	40.00			1.5s	63.00nm			5.9mb	
BMN	79.19	326	eP	37	47.30	1.0									ERC	100.59	53	ePdiff	39	32.50	3.6X

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DIX	100.59	44	ePdiff	39	29.50	0.4		Z	20s	7.09um		6.2Msz	LEN	124.52	57	ePKP	44	41.00	0.2
DOU	100.75	39	Pdiff	39	29.00	-0.3				iSKS	50	45.00		B.0s	1400.00nm				
			SKS	50	27.00		PMR	107.45	331	Pdiff	39	59.00	0.1	ERE	124.95	58	ePKP	44	39.00	-2.6X
			S	51	27.00			Z	19s	5.50um		6.1Msz				eSKS	51	46.00	
			SP	52	57.00		ZST	107.50	45	ePdiff	40	00.00	0.6				ePS	56	39.00	
HAU	100.81	42	ePdiff	39	29.40	-0.3	SRO	10B.14	45	ePKP	44	27.00	17.9X	ISQ	125.04	215	ePKP	44	41.00	-1.2
	1.4s	23.50nm			5.6mb			N	20s	2.10um				ASPA	125.14	208	ePKP	44	40.00	-2.4
MMK	100.92	44	ePdiff	39	30.50	0.0		E	20s	4.96um				MTA	125.33	56	iPKPc	44	42.20	0.1
UCC	100.94	39	Pdiffc	39	30.80	0.7	COL	108.17	334	ePdiff	40	03.00	1.0				ePS	56	41.40	
			e	52	39.00		FBA	108.17	334	Pdiff	40	01.50	-0.5	WBN	125.47	199	ePKP	44	41.00	-1.9
ROF	101.00	42	iPdiff	39	30.80	0.3	SKO	108.35	52	ePdiff	40	03.00	-0.4	GRO	126.11	54	iPKPc	44	44.00	0.4
BSF	101.00	42	ePdiff	39	30.30	-0.4		Z	21s	17.50um		6.6Msz					iPP	46	37.00	
	1.4s	31.30nm			5.7mb			E	23s	20.30um							ePPP	49	28.00	
VG1	101.15	45	ePdiff	39	32.50	1.3				i	44	29.00		KER	126.23	65	e(PKP)	44	48.00	3.6X
WLF	101.45	40	Pdiff	39	34.00	1.6				i	54	08.00		GRS	126.28	59	iPKPc	44	42.60	-1.8
			SKS	50	27.00		ATH	108.72	56	ePdiff	40	06.00	0.9		7.0s	600.00nm				
			S	51	33.00		THE	109.02	53	iPdiff	40	08.00	1.7		Z	20s	4.30um		6.1Msz	
			SP	52	57.00		UZH	110.93	45	ePdiff	40	13.00	-1.7		N	20s	6.10um			
TMA	101.52	44	ePdiff	39	32.50	-0.6	UZH	110.93	45	ePKP	44	14.00	-0.3		E	20s	6.70um			
CDF	101.55	42	ePdiff	39	32.70	-0.4		Z	19s	6.00um		6.2Msz					iPPP	49	27.00	
	1.4s	31.30nm			5.7mb			N	19s	5.00um							iSP	56	43.00	
ENN	101.81	39	ePdiff	39	32.50	-1.5		E	19s	5.00um				KRV	126.39	57	iPKP	44	44.00	-0.3
	1.2s	20.00nm			5.6mb					eSP	54	23.00		MAK	127.37	55	iPKP	44	47.00	1.0
			e	39	45.00		WAR	111.13	41	e(Pdif	40	21.00	5.6X		8.0s	1000.00nm				
ZUL	101.81	43	ePdiff	39	34.00	-0.2		Z	24s	13.00um		6.4MszX			Z	24s	10.40um		6.4MszX	
LLS	101.92	44	ePdiff	39	35.00	0.1				e	44	46.00			N	23s	11.70um			
SLE	102.00	43	ePdiff	39	34.50	-0.5				e	51	10.00			E	22s	4.60um			
DBN	102.00	38	ePdiff	39	35.00	0.2				e	52	16.00					iSP	56	50.00	
	Z 20s	6.00um			6.1Msz					e	54	24.00		WRA	128.22	210	PKPd	44	46.70	-1.7
			e	44	03.00		CIN	111.91	58	iPKPd	44	14.50	-2.0		1.1s	79.30nm				
			eSKS	50	37.00		LVV	112.34	44	ePdiff	40	16.00	-4.9X	BAK	129.08	58	iPKP	44	52.00	2.6X
			ePS	53	18.00		LVV	112.34	44	ePKP	44	16.00	-1.0				ePP	47	00.00	
VDL	102.05	44	ePdiff	39	35.50	0.0		Z	22s	12.00um		6.4Msz		PMG	129.11	231	ePKP	44	39.00	-11.2X
FIR	102.06	47	ePdiff	39	38.00	2.7X		E	21s	12.00um				SHI	129.97	72	ePKP	44	51.00	-0.7
			ePP	44	00.00					ePPS	56	00.00		ARU	132.81	36	ePKPc	44	56.00	0.0
RMP	102.22	49	iPdiff	39	36.00	-0.1	KIS	114.83	48	ePdiff	40	23.00	-9.0X		1.6s	280.00nm				
			ePP	43	46.00		KIS	114.83	48	iPKP	44	20.50	-1.4				ipPKP	45	04.00	
			eSKS	50	24.00					iPP	45	29.00					ePP	50	19.00	
			ePPS	53	12.00					iSP	55	01.00					eSP	57	34.00	
SAX	102.30	43	ePdiff	39	36.50	-0.2	SOD	116.57	25	iPKP	44	24.50	-0.1	TIK	133.19	352	ePKP	44	39.50	-16.7X
MNS	102.44	49	ePdiff	39	38.00	1.0	SIM	118.02	51	ePKP	44	27.00	-1.0		1.0s	10.00nm				
OSS	102.56	44	ePdiff	39	37.80	0.1				eSKS	51	31.00			Z	26s	6.40um		6.2MszX	
POI	102.70	49	ePdiff	39	39.50	1.4				eSPP	56	51.00			N	27s	6.90um			
WTS	102.86	38	ePdiff	39	39.00	0.4				eSS	02	03.00			E	25s	4.90um			
	1.4s	24.00nm			5.7mb		SIM	118.02	51	ePdiff	40	49.00	2.7X				e	44	55.00	
			e	39	50.50		APA	119.16	25	ePdiff	40	53.00	2.2				epPKP	45	05.00	
PCA	102.90	331	(Pdiff	39	39.10	0.3				eSP	55	36.00					ePPP	50	15.00	
AQU	102.92	49	ePdiff	39	41.00	1.7				eSS	02	13.00					eSKS	52	00.00	
OGA	103.19	44	iPdiff	39	41.20	0.7	ANN	120.25	52	ePKP	44	31.50	-0.7	SEY	133.71	334	ePKP	44	57.80	0.3
	1.5s	94.00nm			6.3mb			1.3s	160.00nm						1.5s	410.00nm				
CTI	103.25	45	ePdiff	39	41.00	0.3				ePS	55	52.50					esPKP	45	09.80	
			ePP	43	04.50		OBN	120.71	40	iPKPd	44	32.00	-0.8				ePP	47	26.00	
SGO	103.53	51	ePdiff	39	42.50	0.6		1.3s	230.00nm								eSS	05	13.00	
SCE	103.68	44	iPdiff	39	42.80	0.1				isPKP	44	43.00		SVE	133.74	35	iPKPc	44	58.00	0.3
	1.2s	33.00nm			6.0mb					eSKS	51	28.00			2.1s	230.00nm				
GRF	104.44	42	ePdiff	39	46.40	0.6				eSKS	51	42.00					ePPS	59	33.00	
	Z 20s	5.30um			6.1Msz					iPS	55	56.00					eSS	05	25.00	
TRI	104.47	46	iPdiff	39	40.00	-6.0X	ILT	120.78	335	ePKP	44	33.00	0.5	KAT	133.96	60	iPKPc	44	59.50	0.8
			iPP	44	00.00					eSS	02	36.00			Z	21s	5.30um		6.2Msz	
			eSKS	50	24.00		MOS	121.31	39	iPKPd	44	34.00	0.1		N	21s	4.80um			
			eSKKS	50	45.00			1.5s	210.00nm								ePPP	50	25.00	
			e	52	00.00			Z	20s	12.50um		6.6Msz					iSP	57	44.00	
			eSP	53	12.00			E	19s	9.10um				PET	134.77	320	ePKP	44	46.00	-13.7X
			eSS	58	50.00					epPKP	44	44.00					ePP	47	36.00	
			eSSS	04	18.00					ePS	56	00.00					eSP	57	48.00	
RBL	104.63	45	ePdiff	39	44 00	-2.8X	KHE	121.62	9	ePdiff	41	07.00	5.4X				ePPS	59	40.00	
CEY	104.91	46	ePdiff	39	49.00	1.0	SOC	121.80	53	iPKP	44	35.00	-0.3	NRI	134.92	10	ePKP	44	50.00	-9.6X
			e	40	09.50					eSP	56	00.00			1.5s	120.00nm				
MOX	105.05	41	e(Pdif	39	49.00	0.5	SOC	121.80	53	ePdiff	41	10.00	6.8X				i	44	59.00	
	1.5s	22.00nm			5.9mb		CTA	121.81	221	iPKPc	44	35.60	-0.4				eSS	05	23.00	
			ePP	44	04.00			1.2s	39.10nm					VAN	135.39	62	ePKP	44	51.00	-10.5X
			eSKS	50	45.00					iPP	46	11.00			Z	22s	9.03um		6.5Msz	
			eS	52	00.00					iSKP	47	46.00					e	45	00.00	
			ePS	53	25.00					iSKS	51	28.00		ASH	135.59	62	ePKP	44	53.00	-8.8X
LJU	105.10	46	ePdiff	39	49.50	0.7				iPKKP	54	30.00			6.0s	1600.00nm				
			e	43	52.50					i(SS)	12	02.40					e	45	03.00	
			eS	50	21.50					i	17	08.00					ePP	47	46.00	
LCI	105.32	52	ePdiff	39	55.00	5.1X	MSL	123.37	62	ePKPd	44	38.50	0.0				eSP	57	55.00	
BER	105.73	30	ePdiff	39	58.00	6.8X				e	46	17.50		KHI	135.69	67	e(PKP)	44	57.00	-5.4X
BRG	106.50	41	ePdiff	39	56.50	1.6				e	48	58.00		MGD	135.84	332	ePKP	44	45.00	-16.6X
	1.4s	12.00nm			5.7mb		PYA	124.25	53	iPKPd	44	40.00	-0.1				e	45	00.00	
			e	43	20.00			1.5s	190.00nm								eSS	05	35.00	
			eSKS	50	36.00			Z	26s	11.20um		6.4MszX	MTN	135.89	211	ePKP	44	48.00	-15.0X
			ePKKP	55	27.00			N	26s	4 80um			MHI	136.48	64	ePKP	44	49.00	-14.8X
DAG	107.35	11	ePdiff	39	58.00	-0.1		E	26s	6.40um							e	45	04.00	
			iS	50	54.00					eSKS	51	49.00					e	47	44.00	
COP	107.38	36	ePdiff	40	01.00	2.4X				iPS	56	31.00					eS	59	50.00	

09d 11h

SKR	136.96	317	ePKP	45	01.40	-2.6X	KYS	152.21	296	ePKP	45	36.80	6.7X	TIY	168.19	348	iPKPc	45	48.00	0.6			
			ePPP	50	54.00		DDR	152.81	298	ePKP	45	32.50	1.5				e	46	54.00				
			ePS	58	10.00		SRY	152.83	298	ePKP	45	30.70	-0.3				ePP	50	34.00				
			e	06	14.00		OYM	152.89	297	ePKP	45	36.50	5.4X	SSE	168.59	298	PKPd+	45	48.50	0.9			
YAK	141.65	345	iPKPd	45	05.50	-6.7X	MAT	153.45	300	(PKP)	45	25.00	-6.8X		1.5s	120.00nm							
	1.4s	220.00nm					IRK	153.61	7	iPKP	45	31.00	-0.6		Z 20s	7.80um							
			iPP	48	13.10			1.5s	120.00nm						N 22s	8.20um							
SAM	142.21	58	ePKP	45	06.00	-8.0X				epPKP	45	39.00			E 22s	2.70um							
	7.5s	1500.00nm								e	45	53.00					pPKP	46	00.00				
			ePPS	00	55.00					ePP	49	24.00					PP	50	47.00				
TAS	143.66	55	iPKPc	45	11.50	-4.9X				ePPS	02	36.00					SKKS	57	32.00				
	1.2s	400.00nm					PSI	154.58	155	ePKPd	45	36.00	2.1				PPS	04	36.00				
	Z 24s	10.50um				6.5MszX	WMO	155.03	40	PKPc	45	33.50	-0.3				SS	11	39.00				
	N 24s	5.60um								pPKP	45	43.00					SSS	17	21.00				
	E 24s	7.00um								e	46	00.00		LZH	168.98	25	iPKP	45	49.50	1.5			
			ePP	48	29.00					PP	49	38.00			8.0s	325.00nm							
			ePPS	01	10.00		VLA	155.08	319	iPKPd	45	30.00	-3.7X		N 20s	2.10um							
DSH	143.73	60	iPKPc	45	13.10	-3.6X				ePP	49	38.00			E 24s	32.70um							
	Z 22s	10.00um				6.5Msz				ePPP	53	02.00					pPKP	46	00.00				
	N 24s	4.80um								eSSS	15	02.00					e	46	58.00				
	E 24s	9.50um					KGM	155.29	165	ePKPc	45	36.00	1.1				PP	50	47.00				
			iPP	48	30.00					e	46	00.00					e	54	46.00				
			eSKS	52	14.00		ZAK	155.33	10	iPKP	45	34.80	1.0				SKKS	57	30.00				
KUR	143.89	312	iPKP	45	13.00	-3.6X		9.0s	2620.00nm					NJ2	169.91	308	PKPc	45	47.00	-1.4			
	1.0s	330.00nm								e	46	00.00					e	47	04.00				
			ePP	48	30.00					ePP	49	36.00					PP	50	51.00				
KUL	144.58	61	iPKPc	45	16.50	-1.6X				ePPS	02	48.00					PPP	54	53.50				
	2.0s	2400.00nm					MDJ	155.44	324	ePKP	45	34.30	0.1				SKKS	57	36.00				
			ePP	48	35.80		IPM	157.08	158	ePKPc	45	36.40	-0.9	QZH	171.68	264	iPKPc	45	51.00	1.6			
			ePPP	51	54.10			1.3s	69.40nm								PP	51	04.00				
GAR	144.86	59	iPKPc	45	16.50	-2.1				e	46	05.30					SKKS	57	46.00				
	1.3s	1100.00nm					CN2	158.12	328	iPKPc	45	36.50	-1.2	XAN	172.11	3	iPKPc	45	50.00	0.5			
AAI	145.25	214	ePKPc	45	16.70	-3.1X				pPKP	45	47.00					e	47	08.50				
	1.2s	1390.00nm								e	46	12.00					iPP	51	02.20				
NVS	145.45	27	ePKPc	45	18.20	-0.7				PP	49	52.00					PPP	55	09.00				
	1.5s	1360.00nm					DMN	158.22	81	PKP	45	38.50	-0.1	CD2	173.08	45	iPKPc	45	51.00	1.1			
KOD	145.85	112	iPKPc	45	21.80	0.6	SHK	158.34	298	ePKP	45	38.80	0.6				e	47	18.00				
	1.1s	848.00nm					PKI	158.48	81	PKP	45	38.30	-0.7				PP	51	08.00				
			ePP	48	44.00			1.4s	280.00nm								SKKS	57	56.00				
KHO	146.04	61	iPKPc	45	20.70	-0.1	PLP	159.12	227	ePKP	45	37.00	-2.6X	KMI	173.83	98	PKPc+	45	51.00	0.4			
	9.0s	********nm					SNG	159.34	154	ePKP	45	39.00	-0.8		7.0s	2.00nm							
	Z 24s	5.70um				6.3MszX				i	46	17.00			E 23s	12.90um							
	N 24s	2.70um					SNY	160.51	327	iPKPc	45	40.00	-0.3				ePP	51	12.00				
	E 24s	6.30um								e	46	22.00					iPP	51	15.00				
ANR	146.04	55	iPKP	45	21.50	1.1				PP	50	07.00					ScP	58	07.00				
	1.4s	1700.00nm					LSA	163.42	73	iPKPc	45	45.40	1.2				iSKKS	58	10.00				
			iPP	48	44.00					e	46	35.40					SS	12	21.50				
YSS	146.51	317	ePKPc	45	22.00	1.1				iPP	50	23.90		WHN	173.86	317	iPKPc	45	50.50	0.3			
	1.0s	170.00nm					DL2	163.68	324	PKP	45	41.50	-2.0				e	47	20.00				
			ePP	48	53.00					e	46	36.00					PP	51	12.00				
			eSKS	52	28.00					PP	50	20.00					SKKS	57	56.00				
SEM	147.00	35	iPKP	45	22.20	0.6	NNT	163.70	144	ePKP	45	42.50	-1.7	GZH	175.35	230	iPKPc	45	52.00	1.2			
	1.5s	810.00nm					GTA	164.49	29	iPKP	45	45.50	1.0				PP	51	20.00				
			epPKP	45	32.40					i	46	40.20					SKKS	58	01.00				
			ePP	48	54.50					PP	50	22.00		GYA	177.45	82	PKP	45	51.00	-0.3			
FRU	147.08	51	iPKP	45	23.40	1.3				SKKS	57	12.00					e	47	37.00				
	1.4s	1760.00nm					KHT	164.79	136	ePKP	45	46.20	1 0				PP	51	32.00				
			esPKP	45	37.20					e	50	26.50			S.D. = 1.1		on 331 of 390 obs.						
			eSPP	01	32.00		BJI	165.05	340	ePKP	45	45.00	0.2										
			e	08	42.00					pPKP	45	56.00			OCT 17, 1983 19h 36m 22.46± 0.08s								
LEM	147.18	177	ePKPc	45	22.50	-0.7				e	46	38.00			37.602 N ± 2.0km 17.502 W ± 1.1km								
MKS	147.36	199	ePKPd	45	24.60	1.3				PKS	49	21.00			DEPTH = 16.0km (17 depth phases)								
GBA	147.48	106	PKP	45	23.00	-0.4				PP	50	25.00			6.1mb (107 obs.) 6.4Msz (22 obs.)								
ELT	147.85	26	iPKPc	45	22.30	-0.5				(SKS)	52	46.00			NORTH ATLANTIC OCEAN (402)								
	2.0s	450.00nm								e	54	04.00											
BOD	148.14	355	iPKPc	45	22.90	-0.3				PPP	54	24.00		LIS	6.68	78	ePnc	37	57.40	-4.8X			
	1.3s	300.00nm								SKKS	57	17.00					iSn	39	03.50				
NRN	148.50	53	ePKP	45	25.20	0.4				SKKKS	00	51.00		PTO	7.74	60	ePn	38	11.60	-5.6X			
TLG	148.82	49	iPKP	45	24.80	-0.1				SS	10	41.00					iSn	39	31.20				
			i	45	29.60		HHC	165.23	354	PKP	45	46.80	1.7	SFS	9.11	94	iPd	38	36.00	-0.1			
			i	46	25.80					e	46	44.00					i	38	50.00				
KSH	149.06	56	PKPc	45	25.00	-0.5				PP	50	29.00					i	39	44.00				
			e	45	33.00		BTO	165.57	358	iPKPc	45	46.40	1.1				iS	40	08.00				
PRZ	149.81	49	ePKP	45	27.60	1.1				e	46	45.00					iSS	40	38.00				
	1.4s	1600.00nm								PP	50	30.00		TEN	9.17	173	iPc	38	32.00	-5.0X			
			ePP	49	06.00		BAG	165.84	229	ePKPc+	45	45.00	-1.3				iS	40	04.00				
HYB	150.06	101	iPKPc	45	27.20	-0.2	PCT	166.33	145	ePKP	45	48.00	1.6	VVD	9.77	182	P	38	41.40	-4.0X			
	1.2s	729.00nm						1.3s	24.90nm								S	40	19.40				
NDI	151.29	78	iPKPc	45	29.50	0.6				e	46	49.50		MAL	10.49	91	iPc	38	51.00	-4.1X			
	1.4s	209.00nm								e	50	36.70					iS	41	13.00				
NDI	151.29	78	iPKP	45	35.00	6.1X	NST	166.42	138	iPKPd	45	47.00	0.5	IFR	10.87	108	iPd	38	54.00	-6.6X			
			iPP	49	15.00		BDT	166.85	130	iPKPc	45	47.60	0.8				iSn	40	46.00				
			ePPP	52	46.00			1.3s	293.00nm					CRT	11.07	88	iPd	38	59.30	-3.9X			
MNI	151.34	214	ePKPc	45	30.90	1.5	TIA	168.02	329	iPKPc	45	47.60	0.4	AFC	11.11	88	iPg	38	59.40	-4.4X			
	1.3s	1020.00nm								e	46	55.00					e	40	45.50				
TSK	152.04	299	ePKP	45	35.70	5.9X				PKS	49	19.00		ALR	11.72	94	e(P)	39	08.00	-3.9X			
PPI	152.14	160	ePKP	45	31.00	0.4				PP	50	44.00					e(S)	41	15.00				

17d 19h

ALM	12.02	89	eP	39	12.20	-3.7X				e	44	51.00				1.5s	350.00nm			5.8mb			
			iPP	41	16.70					e	45	00.00					i	41	59.00	29kmX			
LGR	12.47	62	iPd	39	18.60	-3.5X	VG1	21.23	61	eP	41	11.00	1.3				iS	46	20.00				
			iS	41	31.60		TMA	21.33	58	eP+	41	10.50	-0.4				i	46	29.00				
EBR	14.32	71	eP	39	35.00	-11.4X	ZUL	21.39	54	eP+	41	10.70	-0.7	SGO	25.56	73	iPc	41	53.00	1.0			
			(S)	42	05.00		GWF	21.43	50	iPc	41	10.90	-0.9	BRG	25.92	49	iPc	41	55.00	-0.3			
			e	42	15.00		DBN	21.52	40	iP+	41	12.50	-0.1		2.0s	935.00nm			6.1mb				
			eSS	42	21.00			Z 12s	123.00um			6.5MszX					i	41	59.10	15km			
EPF	14.64	63	eP	39	46.40	-4.3X				i	41	25.50	55kmX				eS	46	28.00				
VAL	15.22	17	eP	39	55.00	-3.1X				iS	45	15.00		MES	26.02	78	P	42	04.00	7.7X			
			S	41	55.00		SLE	21.55	54	eP+	41	12.00	-1.0	MSI	26.02	78	eP	41	58.00	1.7			
LFF	15.53	56	eP	39	57.10	-5.1X	LLS	21.61	56	eP+	41	13.50	-0.3	BRN	26.03	45	iPc	41	56.50	0.2			
	0.8s	810.00nm			6.0mb		BUH	21.69	51	iPc	41	13.60	-0.8	CZI	26.32	76	eP	42	00.10	1.0			
MFF	15.68	50	eP	39	59.30	-4.9X	VDL	21.82	57	eP+	41	15.70	-0.3	ACI	26.36	76	eP	41	59.90	0.4			
LPO	15.74	57	eP	40	00.80	-4.1X	SAX	21.94	55	eP+	41	17.00	-0.2	CSI	26.38	75	eP	42	00.90	1.2			
	0.7s	249.00nm			5.5mb		BNS	22.02	45	iPc	41	17.50	-0.1	ORI	26.47	74	iP	42	01.00	0.5			
LPF	15.92	44	eP	40	02.40	-4.8X		1.1s	2200.00nm			6.5mb		ROI	26.62	75	eP	42	03.50	1.6			
	1.0s	731.00nm			5.8mb					eS	45	25.80		REY	26.70	356	iP	42	05.70	3.4X			
RJF	16.18	56	eP	40	05.20	-5.4X	WTS	22.32	42	iPc	41	20.10	-0.5				i	42	19.40	56kmX			
	1.2s	828.00nm			5.7mb			1.0s	1010.00nm			6.2mb		VKA	26.75	56	ePc	42	01.60	-1.4			
GRR	16.23	43	eP	40	06.60	-4.5X				i	41	25.80	20km		Z 12s	76.30um			6.5MszX				
ABA	16.39	87	eP	40	13.00	-0.3				e	45	09.50					i	42	15.50	57kmX			
CAF	16.41	57	eP	40	08.70	-4.8X				i	45	25.90					iPP	42	36.70				
	0.8s	435.00nm			5.6mb		STU	22.32	51	iPc+	41	20.00	-0.7				iS	46	41.00				
ECP	16.54	25	iPc	40	13.30	-1.8		1.0s	1260.00nm			6.3mb					e	47	31.00				
	1.1s	1850.00nm			6.1mb		OSS	22.32	57	eP+	41	20.70	-0.2	BLY	26.92	64	eP	42	05.00	0.5			
			iS	42	59.60		SAL	22.35	60	iPd	41	20.50	-0.4	BRT	26.97	72	iPd	42	04.50	-0.5			
LSF	16.56	53	eP	40	10.40	-5.0X	TNS	22.42	47	iPc	41	21.70	0.0		0.8s	0.10nm			2.5mb X				
	0.9s	377.00nm			5.5mb					iS	45	34.10		BER	27.01	25	iP	42	07.40	2.2			
FLN	16.65	43	eP	40	12.10	-4.3X	FIR	22.59	65	eP	41	23.50	0.2	COP	27.06	38	ePd	42	06.00	0.4			
	1.1s	2060.00nm			6.2mb					eS	45	25.00			1.2s	250.00nm			5.8mb				
LDF	16.74	43	eP	40	13.50	-4.2X	WIT	22.68	40	iPc	41	25.00	1.0				iS	46	41.00				
TCF	17.01	53	eP	40	16.00	-5.1X				i	41	32.00	25km	ZST	27.26	56	iPc	42	06.50	-1.1			
	0.9s	321.00nm			5.5mb					e	45	30.50					e	42	33.00	124kmX			
MZF	17.22	54	eP	40	18.50	-5.2X	OGA	22.96	57	iPc	41	27.60	0.4	KSP	27.33	50	ePc	42	07.50	-0.8			
	0.8s	550.00nm			5.7mb		GAP	23.13	56	eP	41	29.20	0.5				eS	46	55.50				
DCN	17.27	21	eP	40	19.70	-4.5X	CTI	23.21	59	iPd	41	29.50	0.0	STJ	27.58	302	eP	42	11.00	0.5			
			eS	43	15.00			0.9s	680.00nm			6.2mb			2.2s	999.00nm			6.2mb				
DLE	17.43	22	eP	40	20.90	-5.4X	FUR	23.45	54	iPc	41	32.40	0.7	LCI	27.59	73	P	42	11.00	0.3			
	1.1s	2660.00nm			6.3mb			Z 14s	93.00um			6.4MszX		SRO	28.00	57	eP	42	12.00	-2.3			
			eS	43	17.00					eS	45	57.00			N 14s	83.10um							
DMU	17.86	21	eP	40	28.30	-3.3X	SCE	23.45	57	iPc	41	32.00	0.1		E 15s	30.40um							
	1.1s	2000.00nm			6.2mb		MNS	23.54	69	iPc	41	32.50	-0.1				e	45	16.00				
			eS	43	24.00			1.0s	200.00nm			5.6mb					e(S)	46	44.00				
AVF	17.93	53	eP	40	28.20	-4.3X	RMP	23.55	70	iPc	41	33.50	0.8	KONO	28.06	29	iP	42	15.00	0.3			
	0.8s	825.00nm			5.9mb					iPP	42	16.00		AKU	28.13	359	iP	42	17.50	2.2			
SSF	18.13	52	eP	40	31.00	-4.1X				iSn	45	52.00			1.1s	415.00nm			6.1mb				
	0.9s	799.00nm			5.9mb		RDP	23.56	70	iPd	41	33.50	0.6	TTG	28.42	69	eP	42	18.00	-0.1			
SMF	18.18	53	eP	40	31.60	-4.1X	ERC	23.73	80	iPd	41	34.50	0.0	8UD	28.43	58	ePc	42	16.00	-2.2			
	0.9s	714.00nm			5.8mb		POI	23.74	68	iPc	41	35.50	1.0		1.6s	200.00nm			5.6mb				
SSB	18.18	58	iP	40	34.80	-1.0	GRFO	23.88	50	iPc	41	36.00	0.1	PSZ	29.07	57	ePc	42	22.00	-2.1			
LBF	18.40	53	eP	40	34.20	-4.2X	GRF	23.88	50	iPc	41	36.10	0.2	KRA	29.42	53	iPc	42	26.30	-0.8			
	1.1s	998.00nm			5.9mb			Z 19s	37.00um			5.9Msz			1.3s	387.00nm			6.0mb				
LOR	18.44	52	eP	40	34.90	-3.9X				e	41	42.00	21km		N 18s	76.80um							
	1.1s	1130.00nm			6.0mb					eS	45	49.30			E 18s	84.10um							
CDR	18.64	64	iPc	40	39.60	-1.8	AQU	24.08	69	iPc	41	38.70	0.8				e	42	30.30	14km			
LRG	19.03	65	eP	40	44.10	-1.9	BHG	24.38	56	eP	41	40.40	-0.4				e	42	36.30				
	0.9s	759.00nm			5.9mb		MOX	24.45	48	iPc+	41	42.00	0.6				i	43	13.00				
LMR	19.12	65	eP	40	45.40	-1.7		Z 14s	81.00um			6.4MszX					eS	47	18.00				
	1.1s	340.00nm			5.5mb			N 13s	95.50um					SPC	29.47	55	eP	42	27.40	-0.4			
FRF	19.25	64	eP	40	46.60	-2.2				iS	45	45.00					i	42	31.20	13km			
	0.9s	506.00nm			5.8mb		HOF	24.49	49	iPc	41	42.20	0.4	NB2	29.57	28	P	42	27.60	-0.8			
DOU	20.16	45	Pc+	40	57.40	-1.2				eS	46	01.00			1.2s	318.00nm			6.0mb				
			S	44	24.00		K8A	24.55	57	iPc	41	42.10	-0.5	JOS	29.57	56	iPc	42	27.50	-0.9			
			e	45	59.00			0.8s	267.00nm			5.9mb		OHR	29.66	71	iP	42	29.00	-0.4			
EKA	20.23	24	Pd	40	59.50	0.2				i	41	43.30	4kmX				i	42	32.40	12km			
	1.2s	1400.00nm			6.2mb					i	41	49.30					i	47	20.00				
HAU	20.28	52	eP	40	58.20	-1.7	RBL	24.59	59	P	41	42.50	-0.3	HFS	30.00	31	eP	42	31.80	-0.4			
	1.0s	469.00nm			5.8mb		TRI	24.61	61	iP	41	44.00	1.1	SKO	30.06	69	iPd	42	32.50	-0.4			
DIX	20.34	58	eP+	41	00.20	-0.7	HAM	24.70	41	iPc	41	45.40	1.7				i	42	35.50	10km			
UCC	20.39	43	Pc+	40	59.60	-1.4	WET	24.75	53	iPc	41	43.70	-0.6				iS	47	18.00				
			S	44	33.20					eS	46	09.00					iSS	48	30.00				
BSF	20.49	52	eP	41	00.80	-1.5	GIB	24.85	79	eP	41	46.00	0.5	WAR	30.55	49	eP+	42	37.00	0.0			
ROF	20.51	53	iPc	41	01.40	-0.9	DUI	24.87	71	iP	41	47.50	2.1				eS	47	40.00				
ORO	20.61	59	iPd	41	04.00	0.5	CEY	25.07	61	eP	41	47.40	0.0				e	48	18.00				
BAF	20.62	52	iPc	41	02.40	-1.2	KHC	25.18	53	iPc	41	48.50	0.0	GRG	30.88	71	ePc	42	39.60	-0.6			
MMK	20.70	58	eP+	41	04.00	-0.6		1.0s	193.00nm			5.7mb		CLO	30.91	63	ePd	42	41.00	0.6			
CVF	20.74	68	eP	41	02.40	-2.4		Z 14s	34.30um			6.0MszX		VAY	30.97	70	iP	42	40.30	-0.6			
	1.2s	738.00nm			5.9mb			N 14s	43.00um					DEV	30.99	62	ePd	42	40.00	-1.0			
WLF	20.84	47	P+	41	06.00	0.3		E 17s	49.60um					LIT	31.07	73	eP	42	41.80	0.0			
			S	44	54.00					e	42	09 00	93kmX	THE	31.35	72	eP	42	46.80	2.6			
ECH	20.86	52	iPc	41	04.80	-1.2				e	43	54.50					iPP	43	59.20				
CDF	21.00	51	eP	41	06.20	-1.3	LJU	25.18	60	eP	41	48.40	-0.1				iS	47	46.00				
	1.1s	908.00nm			6.1mb					i	41	52 00	13km	CJR	31.49	60	eP	42	44.90	-0.6			
ENN	21.23	44	iPc	41	08.20	-1.4				eS	46	13 00		UPP	31.53	34	iPd	42	45.10	-0.5			
	1.0s	788.00nm			6.1mb		KMR	25.28	55	iP+	41	49.00	-0.3		1.0s	600.00nm			6.4mb				
			i	41	18.10	38kmX	CLL	25.51	48	iPc	41	50.80	-0.6				iS	47	56.10				

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SOH		31.62	71	ePd	42	47.00	0.3		Z	18s	130.00um		6.8Msz	KRV		48.64	65	iP	45	08.00	0.6
SRS		31.76	71	ePd	42	48.20	0.3		N	18s	29.00um							iS	52	10.00	
PAIG		32.00	73	ePd	42	49.50	-0.4		E	18s	71.00um							eScS	54	57.00	
COZ		32.00	63	ePd	42	50.00	-0.2				iPP	45	49.00	MAK		48.72	62	iP	45	09.90	2.0
OUR		32.16	72	ePd	42	51.50	0.1				iS	50	19.00			2.0s	400.00nm			6.1mb	
ATH		32.39	76	eP	42	54.90	1.5				eSS	53	18.00		Z	17s	32.40um			6.4MszX	
	Z	16s	38.60um			6.2MszX		ANN		41.17	62	iPc	44	08.00	0.6		E	14s	18.60um				
			eS	48	06.40					4.0s	******nm		7.0mb X					iS	52	10.70	
			eSS	50	00.80				Z	15s	4.80um		5.5MszX	GRS		49.01	67	iPd	45	10.80	0.4
MLR		33.12	62	ePd	43	00.00	0.1		N	17s	37.00um					2.0s	1080.00nm			6.5mb	
KIC		33.20	156	iP	42	59.60	-1.0		E	14s	44.50um							iPP	47	10.40	
BUC1		33.24	64	iP	43	02.00	1.3				ePP	45	50.00					iS	52	10.00	
ISR		33.56	63	ePd	43	03.00	-0.6				iS	50	21.50					iSPP	52	21.00	
EZN		34.02	72	iP	43	07.60	0.1	MNT		41.99	299	iPc	44	13.90	-0.2				esS	52	31.20	
IAS		34.21	59	eP	43	08.00	-1.1			2.4s	1620.00nm		6.3mb						eSS	55	40.40	
BIR		34.27	61	eP	43	09.00	-0.7	RSNY		42.79	298	eP	44	20.50	-0.3				iSSS	56	50.00	
TLB		34.65	64	ePc	43	11.00	-1.9			2.2s	890.00nm		6.1mb	BLA		49.11	290	eP	45	11.90	0.8
CFR		34.70	63	eP	43	12.00	-1.3	APH		42.91	297	eP	44	23.40	1.6	NAV		49.36	290	eP	45	16.30	3.3X
NUR		34.98	35	iP	43	15.00	-0.5	PTN		43.10	298	eP	44	23.60	0.3	TAB		49.49	69	eP	45	14.00	-0.1
		0.9s	135.00nm			5.8mb		KBS		43.12	8	iP+	44	26.90	3.9X					e	45	17.00	10km
	Z	19s	64.00um			6.4Msz		SOC		43.12	63	ePc	44	23.00	-0.5	ITR		50.10	207	eP	45	18.50	-0.3
			i	43	19.60	16km				2.0s	2200.00nm		6.6mb	KHE		50.81	12	iPd	45	28.00	4.5X
			ePP	44	22.00				Z	15s	14.00um		6.0MszX			2.0s	1240.00nm			6.5mb	
			eS	48	42.00				N	16s	15.00um							isP	45	46.00	
IZM		35.02	75	iP	43	17.90	1.6		E	17s	19.00um							iPcP	46	36.00	
EDC		35.08	71	iP	43	17.20	0.5				ePP	46	10.00					iPP	47	20.00	
CTT		35.37	70	eP	43	20.10	1.0				ePPP	46	46.00					iPPP	48	20.00	
IST		35.81	70	iPc	43	22.50	-0.3				eS	50	50.00					iS	52	42.00	
ISK		35.85	70	iP	43	23.60	0.4				eScS	54	12.50	JSC		50.84	287	eP	45	25.60	1.3
YER		36.11	76	iP	43	25.50	0.0	GMTN		43.37	293	eP	44	26.20	0.7	BAK		51.30	65	ePc	45	32.00	4.4X
YLV		36.17	70	iP	43	26.10	0.1	OTT		43.45	299	eP	44	29.00	2.9			4.0s	******nm			7.2mb X	
HRT		36.35	70	iP	43	27.60	0.2			1.0s	94.00nm		5.5mb		N	16s	16.80um				
SUF		36.48	32	iP	43	27.60	-0.6	GPD		43.54	293	e(P)	44	26.00	-0.9		E	16s	28.10um				
		0.8s	146.00nm			5.9mb		BPA		43.92	255	eP	44	29.50	-0.8				iS	52	50.00	
GPA		36.93	71	iP	43	32.50	0.2	SEG		44.04	254	eP	44	29.00	-2.2	SOB1		51.46	210	eP	45	27.50	-1.6
ALT		37.04	73	iPd	43	34.80	1.4	MGG		44.19	253	eP	44	32.00	-0.4					e	45	33.10	19km
GDH		37.19	340	iPc	43	36.00	1.9	PAG		44.40	253	eP	44	31.50	-2.7					e	45	44.60	
		1.2s	891.00nm			6.4mb		MDN		44.62	252	eP	44	36.00	0.1	KER		51.46	73	eP	45	32.00	2.8X
			iS	49	17.00			FDF		44.80	251	ePc	44	37.40	0.0	PRM		51.76	287	eP	45	31.50	0.2
SCH		37.31	314	iPc	43	35.00	-0.3	PYA		45.38	62	eP	44	42.00	0.3	LHC		51.78	306	iPc	45	21.00	-10.2X
		1.3s	381.00nm			6.0mb				2.0s	2970.00nm		6.9mb			1.9s	1300.00nm				
ELL		37.47	76	iP	43	37.30	0.3		Z	16s	23.00um		6.2MszX	CAR		51.82	252	iP	45	31.30	-0.7
TRO		37.55	20	iP	43	37.70	0.6		N	16s	24.50um					0.7s	35.60nm			5.4mb	
KJF		37.71	31	iP	43	38.50	0.0		E	16s	19.00um			FCC		52.08	320	iP	45	36.00	2.7
		1.1s	406.00nm			6.1mb					ePcP	46	18.00	TKL		52.20	289	eP	45	34.50	-0.1
			ePP	45	04.00						ePPP	47	15.00	SVE		53.33	42	iPc	45	42.40	-0.3
			eS	49	16.00						iS	51	23.00			2.7s	2620.00nm			6.7mb	
			eSS	51	36.00		BKR		46.29	65	iPd	44	50.00	0.9		Z	19s	47.50um			6.6Msz	
BCK		37.80	75	iP	43	40.60	0.9			4.0s	8700.00nm		7.1mb X			N	19s	32.00um				
CBM		38.02	301	eP	43	40.00	-1.3				isP	45	03.60			E	19s	29.00um				
SOD		38.66	26	iP	43	46.10	-0.4				iPP	46	35.60					ePcP	46	51.50	
MIM		38.83	298	eP	43	48.00	-0.2				iSP	51	40.60					ePP	47	44.40	
SIM		38.92	62	iPc	43	48.00	-1.0	BCAO		46.61	126	eP	44	49.00	-2.7					eS	53	11.00	
		4.0s	******nm			6.9mb X		BNG		46.61	126	iPd	44	50.50	-1.2					eSS	56	44.00	
			ePP	45	28.00					1.0s	225.00nm		6.1mb	RSCP		53.58	290	ePc	45	44.60	-0.2
			iS	49	46.00		SJG		46.62	259	iPd	44	51.40	-0.4	RSON		53.84	310	eP	45	45.60	-0.9
DAG		39.27	360	iPd	43	52.50	1.1			0.9s	101.00nm		5.8mb	TEH		54.12	69	eP	45	50.00	1.1
		0.5s	35.20nm			5.3mb		LEN		46.81	66	iPd	44	57.00	3.8X	TOV		54.45	253	eP	45	52.50	1.0
			iS	49	52.00					4.0s	7200.00nm		7.1mb X	ELC		55.59	293	eP	45	58.20	-1.2
KEV		39.94	22	iP	43	57.00	0.0		N	18s	14.00um			SDV		55.66	253	eP	46	00.00	-0.4
		0.7s	58.70nm			5.4mb					eS	51	45.00			0.6s	33.30nm			5.5mb	
	Z	16s	62.70um			6.6MszX	NA12		46.95	290	eP	44	53.50	-0.7	PWLA		55.68	290	eP	45	59.50	-0.7
			i	44	01.20	14km	MTA		47.22	65	iP	44	56.40	0.2	FVM		56.18	295	eP	46	02.10	-1.6
			ePP	45	24.00						eSPP	51	55.80				1.6s	421.00nm			6.2mb	
			eS	50	00.00		CVL		47.39	290	eP	44	56.80	-0.8	KAT		56.29	64	eP	46	05.00	0.5
FRB		39.98	327	iP	43	57.30	-0.1	GRO		47.39	62	iPc	44	59.40	1.8			4.0s	******nm			7.2mb X	
OBN		40.11	46	iPc	43	58.10	-0.5			1.0s	700.00nm		6.7mb		Z	14s	5.20um			5.8MszX	
		1.4s	130.00nm			5.4mb			Z	10s	37.00um		6.6MszX		N	14s	8.40um				
	Z	14s	94.50um			6.8MszX			N	10s	29.00um				E	14s	8.20um				
	N	14s	92.40um						E	10s	65.00um							eS	53	57.00	
	E	14s	21.00um								iPP	46	51.00	MBC		56.57	344	eP	46	05.00	-1.1
			iPP	45	38.00						iPPP	47	30.00					pP	54	01.00	
			iS	49	58.00						iSP	51	55.00	FFC		57.37	317	eP	46	11.00	-1.0
BNH		40.48	297	eP	44	02.00	0.1	ALE		47.44	353	eP	44	56.80	-0.7			0.6s	25.00nm			5.4mb	
MOS		40.72	45	iPc	44	04.00	0.4			0.8s	106.00nm		6.0mb	POW		57.49	293	eP	46	10.90	-2.1
		2.0s	6200.00nm			7.0mb		ERE		47.46	67	iPd	44	58.00	-0.3	SHI		57.65	76	eP	46	14.00	-0.5
	Z	14s	58.30um			6.6MszX	TRN		47.62	247	eP	45	00.00	0.4	AAE		57.97	104	eP	46	17.00	0.0
	N	14s	29.40um						1.2s	288.00nm		6.2mb	VAN		58.12	64	eP	46	16.40	-1.0
	E	14s	40.80um				MSL		47.70	72	ePd	45	00.50	0.4				eS	54	18.00	
			iPP	45	40.00						i	45	04.00	12km				ePS	54	30.00	
			ePcP	46	06.00						ePcP	46	29.00	ASH		58.29	64	eP	46	19.00	0.3
			eS	50	14.00						i	46	58.50					eS	54	24.00	
			eSS	52	58.00						iS	06	56.00	ARO		59.62	99	ePd	46	28.00	-0.2
HLW		40.97	86	iP+	44	08.00	2.0	LDN		47.83	298	P	45	01.70	0.7	MHI		59.83	66	iPd	46	29.80	0.3
			iS	51	38.00		ELF		47.88	298	P	45	02.20	0.8					e	50	20.00	
KVT		41.02	68	iP	44	06.60	0.2	MRG		47.96	293	iPc	45	05.00	2.9					eS	54	44.00	
APA		41.09	27	iPd	44	07.40	0.9	DLA		48.15	297	P	45	03.00	-0.6	KHI		60.18	68	eP	46	30.20	-1.8

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BAO		60.22 214 P	46	21.00	-11.3X	
RLO		60.28 295 iPc	46	30.30	-2.1	
YKC		60.44 328 eP	46	31.00	-2.2	
		0.9s 70.00nm			5.8mb	
NRI		60.48 23 iPc	46	34.00	0.6	
		2.5s 1500.00nm			6.7mb	
	Z	20s 30.00um			6.4Msz	
	N	17s 31.00um				
	E	20s 29.00um				
		ePcP	47	19.00		
		ePPP	50	14.00		
		eS	54	51.00		
		eScS	56	19.00		
		eSS	58	44.00		
RSNT		60.49 328 eP	46	32.60	-0.9	
		i	46	36.40	12km	
YKA		60.49 328 eP	46	34.00	0.5	
GBO		60.53 294 e(P)	46	33.10	-1.0	
TUL		60.95 295 iPc-	46	35.20	-1.7	
		1.5s 655.00nm			6.5mb	
	Z	22s 14.70um			6.1Msz	
BHO		60.97 293 iPc	46	35.70	-1.4	
BOG		60.99 252 iP	46	36.00	-1.9	
		iS	54	41.50		
CHN		61.95 253 iP	46	42.50	-1.7	
NSLM		62.17 290 eP	46	45.00	-0.3	
NAI		63.26 115 eP	46	55.00	2.0	
		1.0s 110.00nm			6.0mb	
SAM		63.57 59 eP	46	54.00	-0.5	
		2.5s 2000.00nm			6.8mb	
	Z	14s 14.90um			6.3MszX	
	E	13s 15.30um				
		ePP	49	15.00		
		ePPP	50	45.50		
		eS	55	28.00		
		eScS	56	41.90		
HKT		63.82 289 eP	46	55.00	-1.1	
EDM		64.10 318 iPc	46	57.40	-0.4	
INK		64.25 338 eP	46	57.00	-1.5	
		1.3s 167.00nm			6.0mb	
TAS		64.34 57 eP	46	59.80	0.3	
		2.8s 6000.00nm			7.3mb X	
	Z	16s 24.00um			6.5MszX	
	N	13s 16.90um				
	E	14s 8.00um				
		ePP	49	18.00		
		ePPP	50	56.00		
		eS	55	37.80		
		ePPS	56	07.00		
BMA		65.01 207 eP	47	03.30	-0.6	
		e	47	10.30	22km	
ATX		65.16 290 eP	47	06.00	1.1	
		eS	55	55.00		
DSH		65.32 59 iPc	47	06.00	0.1	
		5.0s 7000.00nm			7.1mb X	
	Z	18s 16.00um			6.3Msz	
		eS	55	46.50		
PSO		65.69 252 iP	47	13.50	4.5X	
GLD		65.71 302 eP	47	08.10	-0.5	
		2.4s 2400.00nm			6.9mb	
	Z	19s 31.50um			6.5Msz	
NVS		65.79 38 eP	47	08.10	-0.5	
		2.0s 1700.00nm			6.9mb	
		iSP	56	02.80		
GOL		65.84 302 eP	47	08.60	-0.9	
		1.2s 50.80nm			5.6mb	
	Z	19s 28.80um			6.5Msz	
GAR		66.15 58 iP	47	10.00	-1.3	
		7.0s 3000.00nm			6.6mb X	
		iS	56	02.00		
KUL		66.31 60 eP	47	11.90	-0.4	
		3.1s 4600.00nm			7.1mb X	
		iPcP	47	42.30		
		ePP	49	39.40		
		eS	55	47.20		
VAO		66.35 210 eP	47	12.40	-0.2	
JCT		66.51 291 iP	47	12.60	-1.1	
		1.0s 215.00nm			6.3mb	
SEM		66.52 44 iPc	47	13.00	-0.4	
		2.8s 3480.00nm			7.0mb	
		ePcP	47	41.90		
		ePP	49	39.50		
		ePPP	51	19.50		
		eS	56	03.60		
		ePPS	56	36.70		
ANR		66.64 56 ePc	47	14.40	0.1	
		2.4s 3000.00nm			7.0mb	
	Z	12s 13.00um			6.4MszX	
	N	12s 17.00um				
	E	12s 13.00um				
		iPP	49	45.60		
		eS	56	07.70		
BDW		67.04 307 eP	47	15.50	-1.6	
		0.7s 109.00nm			6.1mb	
		e	47	33.90	69kmX	
FRU		67.05 53 eP	47	13.80	-3.1X	
		2.0s 2500.00nm			7.0mb	
	Z	18s 30.00um			6.6Msz	
	N	19s 35.50um				
	E	19s 31.00um				
		iPcP	47	44.00		
		ePP	49	45.00		
		eS	56	06.00		
		eSS	00	28.00		
LRM		67.27 311 eP	47	17.90	-0.6	
		e	49	38.70	741kmX	
IMW		67.33 309 eP	47	18.40	-0.6	
KHO		67.74 59 ePc	47	21.20	-0.4	
		5.6s 4000.00nm			6.8mb X	
	Z	16s 10.00um			6.1MszX	
	N	16s 2.50um				
	E	16s 15.80um				
		ePP	49	50.00		
		ePS	56	42.00		
		eSS	00	30.00		
ELT		68.16 39 iPc	47	21.90	-1.7	
		2.2s 1340.00nm			6.7mb	
	N	16s 7.40um				
	E	16s 32.00um				
		iS	56	23.00		
TMI		68.25 308 eP	47	24.30	-0.4	
AAA		68.29 52 iP	47	25.90	1.2	
		3.8s 6.80nm			4.2mb X	
	Z	16s 21.50um			6.5MszX	
	N	16s 19.50um				
	E	16s 18.50um				
		iPP	49	59.90		
TIK		68.49 11 ePc	47	25.00	-0.4	
		3.0s 1900.00nm			6.7mb	
	Z	18s 11.00um			6.1Msz	
	N	19s 9.00um				
	E	16s 31.80um				
		ePcP	47	50.00		
		ePP	49	58.00		
		eS	56	27.00		
		eSP	56	42.00		
		ePPS	57	10.00		
TLG		68.56 51 eP	47	26.10	-0.3	
		2.7s 1030.00nm			6.5mb	
	Z	16s 16.00um			6.3MszX	
	N	15s 14.70um				
	E	15s 16.00um				
		iPP	49	58.00		
		iS	56	26.00		
NRN		68.65 54 eP	47	27.60	0.3	
NEW		68.69 315 eP	47	26.50	-0.6	
BEI		68.79 307 eP	47	27.30	-0.7	
ALQ		69.00 298 eP	47	28.90	-0.6	
		2.0s 735.00nm			6.5mb	
	Z	18s 17.20um			6.3Msz	
PNT		69.49 317 eP	47	31.00	-1.0	
		1.2s 131.00nm			6.0mb	
PRZ		69.61 52 eP	47	35.00	2.0	
		2.2s 1500.00nm			6.7mb	
	N	16s 38.00um				
	E	16s 16.00um				
		ePP	50	11.00		
		ePPP	51	52.00		
		eS	56	40.00		
KSH		69.68 55 eP	47	36.00	2.6	
		ePP	50	07.00		
		SS	01	10.00		
KRI		69.95 132 iPd	47	33.00	-2.2	
		ipP	48	28.00	235kmX	
DUG		70.47 306 eP	47	37.50	-0.8	
MMU		70.56 304 eP	47	38.90	-0.1	
COL		70.70 340 eP	47	39.00	-0.1	
	Z	22s 13.70um			6.2Msz	
		eS	56	55.00		
FBA		70.70 340 eP	47	39.50	0.4	
		2.1s 539.00nm			6.3mb	
RMU		70.96 302 eP	47	41.10	-0.2	
ITB1		70 97 215 eP	47	41.00	-0.1	
MSU		70.97 304 eP	47	41.80	0.3	
ITB		71.01 215 e(P)	47	40.40	-1.0	
MTD		71.10 130 iPd	47	41.00	-1.1	
		ipP	48	39.00	248kmX	
PNO		71.10 313 eP	47	41.00	-0.8	
IMA		71.28 343 eP	47	43.80	1.1	
VHO		71.29 278 iP	47	47.00	3.4X	
GCA		71.43 303 eP	47	44.40	0.3	
ZOBO		71.65 231 iP	47	44.70	-1.4	
LPB		71.83 231 P	47	47.00	0.0	
		1.0s 80.00nm			5.7mb	
	Z	22s 28.10um			6.5Msz	
		S	56	32.00		
TET		71.84 128 eP	47	47.00	0.5	
		0.9s 0.10nm			2.9mb X	
		e	50	25.00		
IIC		71.85 281 eP	47	49.40	2.3	
PCA		71.91 334 eP	47	49.10	2.6	
PGC		71.94 318 eP	47	45.20	-1.5	
BUL		71.98 135 iPd	47	46.00	-1.5	
		ipP	48	43.00	243kmX	
		iPP	50	14.00		
LON		72.17 316 e(P)	47	46.70	-1.6	
GMW		72.24 317 eP	47	48.00	-0.6	
PHC		72.73 321 eP	47	56.00	4.6X	
III		72.79 280 eP	47	51.80	-0.7	
EUR		72.89 307 iP	47	52.50	-0.3	
		0.8s 14.80nm			5.1mb	
BMN		73.13 308 eP	47	55.10	1.0	
PME		73.61 338 eP	47	56.60	0.3	
		2.1s 539.00nm			6.2mb	
	Z	20s 6.00um			5.9Msz	
PMR		73.66 338 eP	47	57.00	0.4	
ILT		73.87 353 eP	47	58.00	0.4	
		1.0s 170.00nm			6.0mb	
		iPcP	48	18.60		
		ePP	50	47.00		
		iS	57	30.00		
		iSS	02	12.00		
ARE		73.92 234 eP	47	57.50	-1.6	
		e	57	28.00		
		e	58	00.00		
		e	02	20.00		
		e	06	50.00		
		e	08	10.00		
		e	11	14.00		
ACX		73.96 279 eP	47	59.80	0.8	
WMQ		74.42 46 iPc	48	02.00	0.5	
NPA		74.73 123 eP	48	04.00	0.6	
MZX		75.42 288 eP	48	09.80	2.4	
LGBM		75.63 311 eP	48	09.20	0.5	
GLA		75.83 301 eP	48	03.20	-6.5X	
MIN		75.88 310 eP	48	10.00	0.0	
SWZ		75.95 141 iPd	48	07.00	-3.3X	
VPEM		76.13 305 eP	48	12.40	0.9	
MOY		76.14 34 iPc	48	12.20	1.3	
		2.5s 3290.00nm			7.0mb	
PRE		76.24 138 eP	48	12.00	-0.1	
SLR		76.28 138 iPc	48	11.60	-0.6	
		0.9s 171.00nm			6.1mb	
	Z	17s 58.30um			7.0MszX	
WDC		76.31 311 eP	48	11.00	-1.2	
BPI		76.50 139 iPc	48	12.80	-0.7	
NDI		76.54 64 iPc	48	13.50	-0.2	
		0.8s 101.00nm			5.9mb	
	Z	18s 13.80um			6.3Msz	
	N	18s 2.75um				
	E	18s 3.44um				
		iS	57	58.00		
JAS		76.62 308 eP	48	14.70	0.7	
WKTM		76.63 305 eP	48	15.30	1.1	
BOD		76.64 24 iPc	48	12.40	-1.3	
		1.2s 530.00nm			6.5mb	
SLA		76.67 224 iPd	48	13.50	-1.0	
FRI		76.73 306 eP	48	15.00	0.4	
RMT		76.79 310 eP	48	15.10	0.3	
KIM		76.98 143 iPc	48	16.50	0.4	
		0.8s 129.00nm			6.0mb	
FHC		77.03 312 eP	48	17.70	1.4	
IRK		77.17 32 ePc	48	16.00	-0.8	
		3.0s 2650.00nm			6.8mb	
	Z	18s 56.60um			6.9Msz	
	N	18s 25.20um				
	E	20s 32.20um				
		ePcP	48	33.50		
		ePP	51	09.00		
		ePPP	53	06.00		
		eS	58	06.00		

eScS 58 33.00
eSS 02 56.00
YAK 77.25 15 ePc 48 16.60 -0.4
0.7s 650.00nm 6.8mb
Z 13s 8.70um 6.3MszX
E 15s 9.50um
iPcP 48 26.70
iSKS 58 23.40
EVA 77.32 138 eP 48 17.70 -0.4
VIR 77.45 141 iPc 48 18.50 -0.2
ARN 77.67 308 eP 48 21.80 2.0
MHC 77.74 308 eP 48 21.90 1.6
KDC 77.78 337 eP 48 21.00 1.1
BKS 77.78 308 eP 48 24.80 4.4X
Z 20s 20.00um 6.4Msz
N 20s 20.00um
E 20s 18.00um
e 49 05.20 164kmX
ePP 51 22.00
eS 58 16.00
eScS 58 48.00
eSS 03 20.00
SAO 77.97 307 eP 48 25.00 3.5X
ZAK 78.08 34 iPc 48 22.90 1.2
3.0s 4750.00nm 7.0mb
Z 20s 32.40um 6.7Msz
N 16s 26.10um
ePP 51 20.00
ePPP 53 14.00
eS 58 17.60
eSS 03 18.50
eSSS 06 24.00
SUR 78.26 148 iPc 48 24.00 0.9
0.8s 77.60nm 5.8mb
Z 17s 32.20um 6.7MszX
TUH 78.36 149 iPc 48 24.00 0.6
CER 78.48 149 iPc 48 25.00 0.9
ANT 78.69 228 eP 48 24.00 -1.4
POO 79.97 74 eP 48 33.00 0.4
TUP 81.29 24 eP 48 35.80 -3.1X
2.5s 740.00nm 6.3mb
LPA 81.33 213 iP+ 48 40.00 0.8
Z 20s 18.40um 6.4Msz
MGD 82.17 6 eP 48 45.00 1.6
1.3s 160.00nm 5.9mb
Z 16s 8.20um 6.2MszX
N 16s 8.50um
E 16s 5.30um
eS 58 51.00
eSS 04 20.00
DMN 82.75 61 iPc 48 47.60 0.2
KKN 82.76 61 iPc 48 47.40 0.0
0.8s 190.00nm 6.3mb
PKI 82.98 61 iPc 48 48.50 -0.2
0.8s 280.00nm 6.5mb
CEN 83.82 222 eP 48 53.00 0.7
TLL 83.84 224 iPc 48 53.00 0.3
GTA 84.16 44 Pc 48 54.60 0.4
S 59 06.00
HYB 84.22 73 eP 48 54.50 -0.2
1.0s 220.00nm 6.3mb
eS 59 16.00
LSA 85.50 56 P 49 03.00 1.5
PP 52 18.80
S 59 31.80
SS 05 13.80
JACH 85.66 223 iP 49 02.50 0.9
GBA 85.67 76 P 49 02.40 0.5
PEL 86.06 222 iPc 49 04.00 0.5
BACH 86.12 222 iP 49 05.50 1.7
SAN 86.29 222 eP 49 06.00 1.4
CHCH 86.65 222 iP 49 07.00 0.6
LNV 87.07 222 iP 49 09.50 1.2
KOD 87.73 79 eP 49 12.50 0.1
BTO 88.54 37 eP 49 16.40 0.7
SHL 88.70 58 iP 49 17.10 0.3
iS 59 59.80
LZH 88.76 44 Pc+ 49 18.00 1.1
3.0s 4770.00nm 7.3mb X
N 11s 3.70um
E 14s 13.70um
sP 49 55.00
PP 52 49.00
i 53 08.50
S 59 50.50
i 00 14.00
PS 01 10.00

SS 05 57.00
HHC 89.07 36 eP 49 21.50 3.3X
PET 89.69 2 eP 49 22.40 1.7
iS 00 12.00
eSS 06 00.00
BJI 91.82 34 eP 49 31.00 0.2
1.5s 1.90nm 4.3mb X
N 19s 20.20um
E 18s 17.30um
pP 49 39.00 25km
PP 53 11.00
e(S) 00 25.00
sS 00 40.00
SS 06 42.00
TIY 91.96 37 eP 49 32.80 1.2
CN2 92.29 26 e(P) 49 31.80 -1.1
PP 53 14.00
eS 00 30.00
sS 00 40.00
PS 01 47.00
CD2 92.50 47 eP 49 35.20 1.0
MDJ 92.92 23 eP 49 37.50 1.7
S 00 42.00
XAN 93.04 42 eP 49 39.00 2.4
PP 53 20.00
SKS 00 13.00
SNY 93.33 28 iPd 49 40.00 2.3
PP 53 27.00
SKS 00 17.00
YSS 93.92 13 eP 49 42.10 1.8
Z 18s 7.40um 6.2Msz
N 18s 5.60um
E 17s 5.50um
ePS 02 12.00
e 07 14.00
VLA 94.98 22 eP 49 49.00 3.7X
ePP 53 41.00
eS 00 59.00
iPS 02 19.00
eSS 07 17.00
DL2 95.08 31 P 49 51.00 5.2X
eSKS 00 22.00
eS 00 56.00
TIA 95.39 35 eP 49 49.70 2.4
PP 53 39.00
eSKS 00 20.00
eS 00 54.70
KMI 96.09 52 eP 49 53.00 2.0
7.0s 1.70nm 3.6mb X
E 20s 5.60um
SKS 00 05.00
iS 00 34.00
GYA 97.50 48 P 50 01.00 3.8X
PP 53 56.00
SKS 00 41.00
CHTO 98.07 59 eP 49 54.80 -4.9X
WHN 98.62 41 P 50 05.00 3.0X
iPP 54 04.00
SKS 00 45.00
PS 02 54.00
BDT 99.19 60 eP 50 19.50 14.7X
i 54 11.90
NJ2 99.62 36 Pd 50 11.00 4.4X
PP 54 14.00
SKS 00 46.00
sS 01 46.00
PS 03 07.00
SSE 101.51 35 Pdiff+50 19.00 4.1X
4.0s 0.60nm 3.5mb X
Z 16s 3.20um 5.9MszX
N 16s 5.50um
E 16s 7.90um
ePP 54 23.00
SKS 57 20.50
PPP 58 01.50
SKKS 00 59.00
SS 13 54.00
MAT 102.88 20 ePdiff50 24.00 3.1X
Z 20s 6.74um 6.2Msz
GZH 103.97 46 Pdiff 50 30.20 4.2X
ANP 106.63 38 ePdiff50 44.00 6.1X
MAW 120.68 154 ePKP 55 16.00 2.0
AAI 133.91 51 ePKP 55 33.00 -7.9X
0.5s 50.40nm
MEK 141.50 87 iPKPc 55 53.10 -1.6
BAL 141.75 93 ePKP 55 54.00 -1.0
MUN 141.87 96 ePKP 55 51.00 -4.2X

MTN 142.72 57 ePKP 55 52.00 -5.0X
KLB 142.96 94 ePKP 55 53.00 -4.1X
NWAO 143.02 97 ePKP 55 55.00 -2.1
KNA 143.13 63 ePKP 55 54.00 -3.7X
RAB 145.43 18 iPKP 56 05.20 3.5X
KLG 145.59 91 iPKPd 56 02.90 1.3
AFI 147.14 309 e(PKP)56 12.00 7.5X
WBN 147.61 80 ePKP 56 08.00 3.0X
DRV 148.17 163 iPKP 56 06.00 1.4
PAA 148.20 13 ePKP 56 08.00 1.7
WB2 149.87 62 ePKP 56 09.20 0.6
i 56 13.80
i 56 15.70
eSKP 59 50.30
eSKS 03 14.00
ISQ 153.94 56 ePKP 56 14.00 -0.6
CTA 157.54 43 iPKP 56 20.90 1.6
1.3s 21.10nm
i 56 55.00
i 20 00.30
CTAO 157.54 43 ePKP 56 21.40 2.1
0.9s 10.40nm
e 56 55.30
KOU 162.95 354 iPKPc 56 35.90 11.0X
YOU 168.09 78 ePKP 56 31.10 2.2
CAN 168.89 82 ePKP 56 31.20 1.8
WEL 169.82 245 e(PKP)56 25.00 -4.7X
e(PP) 57 28.00
e 01 37.00
S.D. = 1.1 on 372 of 447 obs.

OCT 22, 1983 04h 21m 35.06± 0.11s
60.663 S ± 3.7km 25.467 W ± 3.1km
DEPTH = 24.0km (19 depth phases)
6.5mb (21 obs.) 6.8Msz (27 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

OHC 15.37 246 iP 25 12.00 0.3
NVL 18.02 140 eP 25 40.00 -5.0X
SPA 29.50 180 ePc 27 38.80 -0.5
1.3s 1140.00nm 6.5mb
Z 20s 60.30um 6.2Msz
LPA 33.14 306 iPd+ 28 16.80 5.6X
1.1s 2030.00nm 7.0mb
Z 20s 284.00um 7.0Msz
MAW 35.97 139 iPc 28 35.80 0.7
CON 38.19 287 iPc 28 54.50 0.4
PP 29 00.00
PcS 34 43.20
i 37 44.00
CHCH 39.45 292 iPc 29 04.50 -0.3
i 29 11.10 22km
MDZ 39.52 295 i(P) 29 05.20 -0.1
PCH 39.65 292 iP 29 05.90 -0.6
TUH 39.72 67 iPd 29 08.00 1.0
CER 39.73 67 iPc 29 07.00 -0.1
i 29 16.50 32km
LNV 39.78 291 iPc 29 07.50 0.1
i 29 14.00 22km
i 29 31.50
TACH 39.81 292 iP 29 06.80 -0.9
i 29 14.50 26km
BACH 39.86 293 eP 29 08.50 0.3
i 29 16.20 26km
BMA 40.12 333 eP 29 09.90 -0.5
i 29 11.40 5kmX
e 29 16.80
PEL 40.13 292 iPc 29 09.50 -0.8
PP 30 56.80
iS 34 23.00
e 37 24.00
e 40 17.00
CFA 40.33 296 ePd 29 10.50 -1.5
ROCH 40.42 292 iP 29 12.80 -0.2
JACH 40.47 293 eP 29 12.50 -0.7
i 29 21.00 29km
VAO 40.51 329 eP 29 12.70 -0.9
i 29 15.30 9kmX
i 29 20.60
ITB7 40.62 318 iP 29 14.70 0.3
ITB 40.94 318 eP 29 15.90 -1.1
ITB1 41.13 318 iP 29 18.00 -0.6
SUR 41.25 68 iPd 29 21.50 1.8
0.5s 70.40nm 5.6mb
i 29 27.80 21km
SBA 41.53 184 eP 29 22.30 1.0
TLL 42.70 295 iPd 29 32.00 0.3

22d 04h

YJA	47.46	306	ePd	30	10.80	0.7					i	33	52.30	26km				e	47	32.00								
			(S)	31	52.00		FDF	80.38	325	eP	33	47.25	1.6				e	48	44.00								
BAO	47.83	330	P	30	10.00	-2.6	MDN	81.01	325	eP	33	50.60	1.7				e	50	00.00								
ANT	48.13	300	iPKP+	30	20.00	5.2X	MGG	81.56	325	eP	33	53.60	1.9				e	54	20.00								
			i	31	51.20	471kmX	PAG	81.76	325	eP	33	55.00	2.1				eLQ	05	03.00								
			i	37	08.50		TOO	81.84	173	eP	33	52.00	-1.1	PVC	101.08	193	iPdiff	35	32.50	8.4X							
CAC	48.63	302	ePKP	30	19.00	0.1	NWAO	81.87	149	eP	33	54.00	0.7	KNA	101.09	155	ePdiff	35	32.00	7.9X							
			i	30	26.00	23km		0.9s	286.00nm			6.3mb		PTO	102.38	13	iPdiff	35	40.60	11.3X							
KSR	49.57	70	iPd	30	26.50	0.5	BFD	82.02	170	eP	33	53.00	-1.0				iS	47	07.00								
			i	30	32.00	18km	SEG	82.07	325	eP	33	56.00	1.6	PRNI	103.16	51	ePdiff	35	50.20	17.1X							
BPI	49.83	71	iPd	30	28.00	0.0	MUN	82.51	148	eP	33	56.00	-0.6	EBR	103.34	20	ePdiff	35	44.00	10.4X							
EVA	50.04	72	iPd	30	30.00	0.4	BPA	82.78	325	eP	33	59.00	0.9				e	39	45.00								
			i	30	36.00	20km	WAM	83.38	175	eP	34	00.60	-0.5				e	40	01.00								
SLR	50.32	71	iPd	30	29.50	-2.2	BAL	83.94	148	eP	34	03.00	-1.0				eSKS	46	23.00								
	0.9s	461.00nm			6.5mb		CAN	84.26	175	eP	34	05.20	-0.4				eS	47	35.00								
	Z 20s	55.30um			6.6Msz		SJG	85.05	322	eP	34	06.00	-3.6X				ePS	49	07.00								
			i	30	39.50	33km		1.0s	170.00nm			6.2mb		LGR	104.47	17	ePdiff	35	50.50	11.9X							
JOZ	50.66	76	iPc	30	33.70	-0.5		Z 22s	48.20um			6.8Msz					e	39	09.50								
			i	30	41.80	27km	YOU	85.27	175	eP	34	09.20	-1.5				i(PP)	40	07.50								
CNG	51.69	75	iPd	30	42.00	0.1	AAE	85.65	63	eP	34	17.50	4.4X				eS	48	47.00								
	1.0s	1180.00nm			6.8mb		RIV	85.81	177	eP	34	17.00	3.7X	KOD	105.20	96	ePdiff	35	50.00	7.1X							
			eS	45	35.00		STK	87.18	169	eP	34	19.00	-1.1				ePP	40	11.00								
			e	49	08.00		CMS	87.91	173	eP	34	25.00	1.4	EPF	105.47	19	ePdiff	35	57.00	13.9X							
DRV	52.53	173	iP	30	46.50	-1.3	MEK	88.22	148	iPc	34	24.10	-1.1		1.2s	34.50nm											
SOB1	52.62	341	eP	30	46.40	-2.7	COO	89.07	178	eP	34	32.00	2.8	ATH	106.19	39	ePdiff	35	56.00	9.6X							
			i	30	48.90	8kmX	TEN	89.12	8	Pc	34	38.70	9.6X				ePP	40	17.00								
			i	30	52.40					PP	38	10.90		SGO	106.23	31	ePdiff	36	04.00	17.5X							
			i	30	55.10					S	45	36.90					e	40	14.00								
ITR	52.69	344	eP	30	48.00	-1.6	ARO	89.68	66	eP	34	36.00	3.8X	RDP	106.73	29	ePdiff	36	02.50	13.7X							
			i	30	49.40	5kmX	TVO	89.81	232	iP	34	40.80	7.9X				e	40	24.00								
			i	30	55.40		PPN	90.11	232	iP	34	42.00	7.8X	RMP	106.78	29	iPdiff	35	58.00	9.1X							
LPB	53.58	306	Pd	30	54.00	-2.6		1.3s	230.00nm			6.3mb					iPP	39	44.00								
	1.0s	1500.00nm			6.9mb		WBN	90.55	155	eP	34	36.00	-0.2				eS	47	06.00								
			(S)	35	07.00		RUV	91.42	235	iP	34	46.50	6.3X				iPS	48	48.00								
ZOBO	53.83	306	iP	30	57.00	-1.6		1.3s	1030.00nm			7.0mb		CDR	107.06	23	ePdiff	36	09.40	19.3X							
ARE	55.03	303	iPc	31	07.00	-0.1	VAH	91.47	235	iP	34	46.70	6.2X				e	39	57.00								
BUL	55.29	68	iPd	31	08.00	-0.8		1.3s	915.00nm			7.0mb					e	40	23.70								
			ipP	31	15.00	23km	TPT	91.70	235	iP	34	48.00	6.5X	CAF	107.60	20	ePdiff	35	58.40	5.9X							
			iS	38	58.00			1.3s	1390.00nm			7.2mb			1.2s	27.60nm			6.2mb								
KRI	58.64	67	iPd	31	32.00	-0.6	PMO	91.79	235	iP	34	48.40	6.5X	IZM	107.70	41	ePdiff	36	10.00	16.8X							
			ipP	31	38.00	20km		1.3s	804.00nm			7.0mb		BCK	107.96	44	ePdiff	36	13.00	18.6X							
			iPP	33	45.00		ASPA	94.31	161	eP	34	52.00	-1.6	GBA	108.08	94	Pdiffd	36	06.00	10.8X							
MTD	59.58	69	iPd	31	39.00	-0.1	VHO	96.04	294	iP	35	04.00	2.5		1.1s	9.10nm											
			ipP	31	45.00	20km	NOU	96.76	191	iPc	35	09.00	4.3X	THE	108.41	37	ePdiff	36	07.40	11.2X							
			eS	40	04.00		ACX	97.13	292	eP	35	14.80	8.6X				e	40	32.80								
HUA	60.60	301	eP	31	52.40	6.0X	ISO	98.01	166	eP	35	10.00	-0.4	LSF	108.79	19	ePdiff	36	13.40	15.6X							
			iS	40	08.80		WB2	98.03	161	eP	35	06.00	-4.5X		1.2s	23.00nm											
ATB	60.75	329	iP	31	46.00	-0.9				i	35	13.60	24km	JCT	108.93	299	ePdiff	36	05.50	6.7X							
NNA	61.29	299	iPc	31	51.00	0.3				i	35	18.20			1.0s	65.00nm			6.8mb								
	1.6s	233.00nm			6.1mb					eS	39	08.30			Z 20s	11.00um			6.4Msz								
			e	40	00.00		SFS	98.06	16	iPd	35	21.00	11.1X				eS	46	48.00								
NPA	64.64	75	iP	32	14.00	1.2				iPP	39	20.00		VAY	108.93	36	ePdiff	36	13.60	15.1X							
			i(pP)	32	19.00	16km				ePPP	41	30.00		MZF	108.94	20	ePdiff	36	16.20	17.8X							
			e	32	37.00					iSKS	45	59.00			1.2s	24.00nm											
			e	34	42.00					iS	47	00.00		TCF	108.94	20	ePdiff	36	09.20	10.7X							
			e(S)	41	04.00					iSS	53	24.00		TTG	109.03	33	e(Pdif	36	12.50	13.6X							
MCO	65.13	183	eP	32	24.00	8.6X	LJX	98.24	295	eP	35	21.10	9.5X				e	40	37.00								
AVY	65.46	85	ePd	32	20.00	1.7	III	98.27	293	iP	35	15.00	3.5X				e	50	07.00								
KIC	68.78	22	eP	32	39.00	0.1	IIT	98.31	294	eP	35	23.50	11.7X	TSI	109.14	119	e(PKP)	40	12.00	7.8X							
			S	41	43.30		MAL	98.57	17	iP-	35	20.00	7.9X	SKO	109.21	35	ePdiff	36	17.00	17.3X							
			e	01	01.90					iPP	39	24.00					iPP	40	38.20								
BNG	73.37	46	iPd	33	06.30	-0.3				iS	46	56.00					iSKS	46	48.00								
	0.8s	100.00nm			5.9mb					iPS	48	12.00					iSKKS	48	27.00								
PSO	73.38	305	ePKP	33	08.00	0.9				iSS	54	12.00					iSP	49	57.00								
MSZ	74.46	190	eP	33	12.20	-0.3	KOU	98.68	189	iPc	35	14.60	1.2				iSS	56	02.00								
			ipP	33	20.90	28km	IIP	98.87	294	iP	35	25.00	10.6X	ORO	109.37	24	e(Pdif	35	45.00	-15.5X							
			iPcP	33	25.70		IIM	98.97	293	iP	35	18.50	3.7X				e	39	18.00								
			i	33	31.00		TAC	99.04	293	iP	35	26.00	10.9X	ORO	109.37	24	ePdiff	36	18.00	17.5X							
			(PP)	36	04.00		CRT	99.14	18	eP	35	28.00	13.2X				e	40	40.00								
BOG	75.23	309	ePKP	33	18.00	0.3	CTA	99.26	172	iPc	35	19.16	3.1X	AVF	109.63	21	ePdiff	36	14.60	13.1X							
FUQ	75.88	310	iPKP	33	22.00	0.6		1.5s	340.00nm			6.7mb			1.5s	33.30nm											
TRN	76.57	324	eP	33	26.00	1.2				iPP	39	20.00		HNR	110.00	186	ePdiff	36	10.00	6.2X							
	1.2s	78.90nm			5.6mb					iSKS	46	00.00		BHO	110.24	304	ePdiff	36	14.70	10.2X							
WEL	77.06	196	iP	33	32.00	4.7X				i	46	52.00			1.1s	16.10nm											
			PP	36	29.00					iPS	48	22.00		YLV	110.35	42	ePdiff	36	21.00	16.0X							
			S	43	27.00					iSS	53	22.00		GPA	110.41	42	ePdiff	36	25.00	19.8X							
TCW	77.20	195	P	33	32.20	4.1X	VUN	99.26	203	eP	35	23.60	7.6X	POO	110.52	89	ePdiff	36	18.00	11.8X							
MNG	77.63	196	P	33	34.00	3.6X	IIC	99.39	294	iP	35	19.00	2.2	CTI	110.55	27	ePdiff	36	22.00	16.2X							
UAV	77.83	314	iPd	33	40.00	7.9X	NDF	99.70	202	eP	35	27.50	9.5X				e	40	49.00								
SDV	77.90	314	iPd	33	34.00	1.5	ABA	99.89	23	eP	35	38.00	19.8X	IST	110.66	41	iPdiff	36	18.00	11.8X							
	0.7s	85.70nm			5.9mb		LIS	99.93	13	iPc	35	29.90	11.6X				i	51	20.00								
TOV	78.45	315	eP	33	36.00	0.7	ALI	100.77	20	iPdiff	35	32.00	9.8X	ISK	110.70	41	ePdiff	36	06.00	-0.4							
RKT	79.14	242	iP	33	49.10	10.1X				iPP	39	38.00		TRI	110.71	28	iPdiff	36	16.00	9.7X							
	1.2s	875.00nm								iPS	48	42.00					iPP	40	47.00								
GNZ	79.19	199	P	33	43.10	4.1X	AFI	100.95	213	(Pdiff	35	28.00	4.4X				iPPP	43	16.00								
KRP	80.26	197	P	33	44.00	-0.8				e	39	32.00					i	46	56.00								
	0.9s	72.00nm			5.7mb					e	42	32.00					iSKKS	47	44.00								

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			iS	48	36.00				N	19s	20.10um				KRV	116.60	54	ePdiff	36	44.00	11.3X
			iSP	50	14.00				E	19s	13.80um				MNI	116.71	146	ePKP	40	27.00	8.3X
			iSPP	51	12.00						e	40	20.00		ANN	116.86	45	ePKP	40	19.00	1.0
			iSS	56	00.00						i	41	19.00					ePP	41	37.00	
			iSSS	00	08.00						e	49	13.00					eSP	51	20.00	
IPM	111.16	121	ePKPd	40	12.20	4.1X					e	52	00.00		ANN	116.86	45	ePdiff	36	42.00	8.3X
			e	40	18.50		PRU	114.91	27	PKP	40	10.50	-3.7X		MTA	116.89	52	iPKP	40	27.60	9.4X
			e	40	37.00						i	40	24.50					iPP	41	36.60	
OGA	111.19	26	ePdiff	36	28.00	19.3X	WTS	115.25	21	ePKP	40	23.00	8.3X					ePPP	44	20.60	
LJU	111.21	29	ePdiff	36	16.80	8.3X		1.3s		50.00nm					MTA	116.89	52	ePdiff	36	40.60	6.7X
			e	40	52.00						e	40	26.00		EKA	117.00	14	PKP	40	28.00	10.0X
			e	50	31.00						ePP	41	07.00			1.8s		123.00nm			
BNH	111.32	327	e(PKP)	40	14.20	6.7X					e	41	19.50		NNT	117.75	116	ePKP	40	27.50	6.9X
RBL	111.36	28	ePKP	40	20.00	12.4X	ERE	115.47	53	ePKP	40	22.00	6.3X					e	50	53.00	
MSL	111.66	54	ePdiff	36	21.00	10.2X					iSP	51	05.00		BAK	117.82	57	ePKP	40	18.00	-2.0
			i	40	21.00		ERE	115.47	53	ePdiff	36	40.00	12.2X			N	15s	58.30um			
			iPPP	42	04.50		SPC	115.54	31	ePKP	40	01.00	-14.7X			E	15s	30.90um			
			iS	47	18.00						i	41	14.70					iPP	41	46.00	
			i	50	26.00		UZH	115.57	33	ePdiff	36	38.00	10.1X		GLA	117.89	288	e(PKP)	40	23.20	2.7X
			i	50	46.00			Z 16s		26.00um			6.9MszX					e	40	28.50	
RLO	111.85	305	e(Pdif	36	27.00	15.3X		N 16s		9.00um					PYA	118.22	50	iPKP	40	24.00	3.3X
HYB	111.89	93	ePdiff	36	18.50	6.3X		E 16s		16.00um						Z	20s	23.50um			6.8Msz
			e	40	12.00						eSP	51	10.00			N	20s	25.00um			
TUL	111.94	305	Pdiff	36	27.50	15.5X					eSPP	52	30.00			E	20s	15.50um			
	Z 22s		27.40um			6.8Msz					iSS	57	30.00					iSP	51	34.00	
RSNY	112.19	324	e(PKP)	40	14.30	5.2X	BRG	115.61	26	ePKP	40	17.00	1.5					eSS	58	10.00	
CLO	112.45	35	ePdiff	36	34.00	19.9X		Z 18s		21.00um			6.8Msz		PYA	118.22	50	ePdiff	36	50.00	10.2X
AAI	112.63	151	ePKPd	40	17.90	7.1X		N 18s		11.00um					MAK	119.04	53	iPKP	40	31.00	8.8X
	0.7s		51.70nm					E 18s		23.00um								iPP	41	53.00	
BUC1	112.72	37	ePdiff	36	24.00	8.7X					i	40	25.90					iPPP	44	30.00	
MNT	112.81	325	ePKP	39	56.50	-13.7X					ePKKP	50	56.90					eSKS	47	21.00	
			pP	40	18.00		BRG	115.61	26	ePdiff	36	36.00	8.0X					iSS	58	19.00	
WLF	112.90	22	Pdiff	36	31.00	15.1X	GRS	115.62	55	iPKP	40	24.00	7.9X		MAK	119.04	53	ePdiff	36	54.00	10.6X
			e	41	05.00						iSP	51	10.00		GLD	119.13	300	e(PKP)	40	23.00	0.2
			SKS	47	07.00		GRS	115.62	55	iPdiff	36	37.00	8.5X			1.2s		50.50nm			
			SKKS	48	12.00		ALQ	115.65	296	ePKP	40	23.00	6.6X		GOL	119.15	300	e(PKP)	40	25.70	2.7X
			e	49	09.00			Z 18s		25.80um			6.9Msz			1.2s		79.50nm			
			PS	50	37.00		ALQ	115.65	296	ePdiff	36	37.00	8.2X			Z	22s	24.60um			6.8Msz
			SS	56	52.00		LEN	115.72	52	ePKP	40	25.00	8.7X		KHT	119.18	113	ePKP	40	29.10	5.8X
VAL	112.91	10	Pdiff	36	31.00	15.1X		6.0s		2300.00nm								e	50	49.80	
			PS	49	00.00						ePP	41	30.00		VAN	119.30	64	ePKP	40	32.00	9.1X
KMR	113.01	28	e(Pdif	36	27.00	10.5X					ePS	51	14.00					ePP	41	52.00	
DOU	113.03	21	Pdiff-	36	29.00	12.5X					eSPP	52	27.00					ePPP	44	28.00	
			e	39	50.50		CLL	115.82	26	ePKP	40	26.00	10.1X					eSP	51	38.00	
			e	40	21.50						iPP	41	29.90		VAN	119.30	64	ePdiff	36	53.50	8.8X
			PP	41	09.50						eSKS	47	24.00		ASH	119.41	64	ePKP	40	30.00	6.9X
			SKKKS	48	13.00		SIM	115.83	43	ePdiff	36	43.00	13.9X		KAT	119.53	62	iPKPd	40	30.00	6.7X
			PS	50	38.00						eSKS	47	11.00			6.0s		5000.00nm			
COZ	113.11	36	ePKP	40	21.00	9.9X					ePS	51	19.00			Z	18s	16.00um			6.7Msz
OTT	113.31	324	ePKP	40	19.00	7.8X	KIS	115.99	38	iPKP	40	17.00	0.7			N	18s	22.00um			
	0.8s		36.00nm					Z 20s		7.00um			6.3Msz			E	18s	28.00um			
ISR	113.60	37	ePdiff	36	03.00	-16.3X		N 19s		3.60um								iPP	41	54.00	
UCC	113.67	20	PKPc	40	20.70	8.9X		E 18s		3.60um								ePPP	44	32.00	
			e	40	26.50						iSKS	47	17.00					iSP	51	42.00	
			PS	51	01.00						iSP	51	12.00		SCH	119.71	334	ePKP	40	22.00	-1.2
VKA	113.71	29	(PKP)	39	56.50	-15.5X	KIS	115.99	38	iPdiff	36	38.00	8.3X			1.2s		148.00nm			
	6.5s		8570.00nm				WIT	116.01	21	ePKP	40	27.50	11.4X		MUD	119.93	21	iPKPd	40	32.20	8.7X
	Z 20s		17.90um			6.7Msz					e	40	46.00			1.2s		120.00nm			
			e	40	19.50						ePP	41	13.00		LHC	120.28	316	ePKP	40	29.00	4.6X
			ePP	41	11.00		JAY	116.09	165	ePKPd	40	20.50	2.9X			1.1s		125.00nm			
			e	50	01.50		KSP	116.11	28	ePKP	40	22.30	5.8X		PCT	120.34	116	ePKP	40	28.70	3.2X
			i	50	57.00			2.3s		230.00nm								e	50	41.00	
WET	113.75	26	ePdiff	36	36.20	16.4X					e	40	27.60		NST	120.65	114	ePKP	40	27.20	1.2
	Z 20s		35.20um			7.0Msz					e	41	23.00		BDT	121.52	112	ePKP	40	27.00	-0.6
			e	41	12.00						i	41	33.70			1.0s		175.00nm			
TNS	113.86	23	ePKP	40	19.90	7.6X					e	50	47.00					i	50	37.00	
			e	41	10.60		KRA	116.27	31	ePKPc	40	19.40	2.7X					e	53	55.00	
ENN	113.91	21	ePKP	40	15.50	3.3X		1.9s		289.00nm					RSSD	122.24	303	ePKP	40	24.00	-4.6X
	1.3s		25.00nm					Z 18s		28.70um			6.9Msz					e	40	37.20	
			e	40	23.50			N 18s		9.20um					DAV	122.30	145	ePKP	40	37.00	7.7X
			ePP	41	10.00			E 18s		21.80um					PPR	122.72	137	ePKP	40	35.00	5.0X
CJR	114.17	35	ePKP	40	05.80	-7.2X					e	40	27.40		DUG	122.82	294	e(PKP)	40	30.10	0.3
VRI	114.31	37	ePKP	40	15.50	2.3					e	40	44.70					e	40	38.00	
BNS	114.33	22	iPdiff	36	33.00	10.7X					i	41	32.00		CHG	122.86	112	ePKP	40	27.50	-2.7X
			ePP	40	20.70						iS	51	16.00		KONO	123.03	20	ePKP	40	37.80	8.5X
			e	41	17.00		KHI	116.38	67	e(PKP)	40	15.40	-2.3		PRI	123.17	286	ePKP	40	32.00	1.5
			e	50	59.00		BKR	116.42	51	iPKP	40	22.30	4.7X					ePKKP	50	33.00	
TAB	114.39	55	ePdiff	36	33.00	9.9X					ePPP	44	09.80		FRI	123.41	287	ePKP	40	31.30	0.5
			e	40	24.00						eSP	51	19.80					ePKKP	50	30.50	
MOX	114.90	25	ePdiff	36	35.00	10.1X					eSS	57	49.80		BDW	123.48	299	e(PKP)	40	25.70	-5.4X
MOX	114.90	25	ePKP	40	22.50	8.3X	BKR	116.42	51	iPdiff	36	40.80	8.7X			1.3s		151.00nm			
	2.5s		810.00nm					1.2s		2800.00nm					EUR	123.68	292	iPKP	40	35.20	3.6X
			iPP	41	20.00		SOC	116.60	48	iPKP	40	26.00	8.4X			0.6s		3.59nm			
			ePKKP	51	00.00						iSP	51	21.00		DMN	123.70	93	ePKP	40	31.20	-0.8
			iSS	57	20.00		SOC	116.60	48	iPdiff	36	42.00	9.5X		PKI	123.81	93	ePKP	40	31.00	-1.3
PRU	114.91	27	Pdiff	36	30.00	5.1X	KRV	116.60	54	ePKP	40	22.00	4.3X			1.2s		670.00nm			
	Z 18s		18.90um			6.7Msz					ePS	51	27.00		RSON	123.88	315	e(PKP)	40	30.10	-1.2

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	1.2s	145.00nm				
KKN	123.93	93	ePKP	40	31.40	-1.0
SAO	124.05	285	ePKP	40	32.50	0.4
HFS	124.22	22	(PKP)	40	31.70	0.0
REY	124.51	2	ePKP	40	35.30	3.3X
			i	40	42.60	
JAS	124.52	287	ePKP	40	33.90	0.9
			ePP	42	41.00	
			ePKKP	50	26.30	
			ePKKS	53	59.00	
KUL	124.60	73	ePKP	40	33.80	0.6
	4.2s	2000.00nm				
			iPP	42	31.30	
MHC	124.60	286	ePKP	40	34.50	1.2
SAM	124.73	70	iPKP	40	37.00	3.6X
	Z 17s	45.00um			7.2MszX	
	N 17s	34.00um				
			iPP	42	29.00	
SAM	124.73	70	ePdiff	37	21.50	12.7X
UPP	124.74	25	iPKP	40	31.50	-1.1
			i	40	33.50	
			i	40	41.50	
KHO	125.11	75	ePKP	40	34.50	0.1
			ePP	42	33.00	
			eSPP	54	00.00	
			iSSS	04	21.00	
BKS	125.31	286	ePKP	40	36.20	1.7
	Z 20s	16.00um			6.7Msz	
	N 20s	11.00um				
	E 20s	15.00um				
			ePP	42	33.60	
			ePKKS	54	04.00	
			eSS	59	44.00	
OBN	125.48	39	iPKP	40	37.00	2.8X
	Z 20s	25.00um			6.9Msz	
	N 20s	11.00um				
	E 20s	21.00um				
			iSPP	54	06.00	
OBN	125.48	39	ePdiff	37	32.00	20.4X
GAR	125.74	73	ePKP	40	35.50	0.0
	1.5s	450.00nm				
			iPP	42	34.00	
AKU	126.16	4	iPKP	40	32.70	-2.5X
	1.0s	32.00nm				
			i	40	42.90	
			i	42	38.40	
MOS	126.28	39	ePKPd	40	38.00	2.2
	Z 18s	17.90um			6.8Msz	
	E 19s	21.30um				
			iPP	42	46.00	
			ePP	45	30.00	
			eSKS	47	40.00	
			eSP	52	42.00	
			eSPP	54	14.00	
NUR	126.88	28	ePKP	40	33.00	-3.8X
	1.3s	571.00nm				
			i	40	46.80	
			ePP	42	39.00	
			eSKP	43	58.00	
			e	49	04.00	
			eS	51	04.00	
			ePS	52	46.00	
			eSS	59	32.00	
MIN	126.98	288	ePKP	40	37.70	-0.2
TAS	127.11	70	iPKP	40	41.00	3.1X
	Z 22s	40.50um			7.1Msz	
			ePP	42	46.00	
			eSPP	54	21.00	
TAS	127.11	70	ePdiff	37	28.00	8.7X
	8.0s	800.00nm				
LRM	127.16	299	ePKP	40	27.80	-10.4X
WDC	127.60	287	ePKP	40	38.90	0.1
			ePP	42	48.00	
			ePKKS	53	56.00	
PUL	127.63	32	ePKP	40	41.00	2.8X
	Z 19s	35.00um			7.1Msz	
	N 18s	11.00um				
	E 18s	16.00um				
			ePPP	45	47.00	
			ePS	53	00.00	
PUL	127.63	32	ePdiff	37	32.00	11.0X
OCP	128.04	137	iPKP	40	47.00	6.7X
ANR	128.09	73	ePKP	40	38.00	-1.8
	1.6s	430.00nm				
FRB	128.28	337	ePKP	40	31.50	-7.8X
	1.3s	602.00nm				
LSA	128.39	97	PKP	40	41.10	-0.2
			e	40	46.80	
			PP	42	51.30	
FHC	128.45	287	ePKP	40	41.60	1.1
KSH	128.79	77	PKP	40	48.00	6.7X
			PP	42	42.00	
SUF	129.16	28	iPKP	40	43.70	2.6X
	1.2s	195.00nm				
BAG	129.53	136	ePKP	40	45.00	1.7
FFC	129.96	313	ePKP	40	35.00	-7.8X
KMI	130.06	111	ePKP	40	39.00	-5.2X
	7.0s	4.40nm				
	E 19s	27.60um				
			i	40	50.00	
			PP	42	43.50	
			PKS	44	13.00	
			SS	00	28.50	
KMI	130.06	111	ePKP	40	42.00	-2.2
			e	40	50.00	
			PP	42	53.50	
SES	130.12	303	ePKP	40	38.00	-5.4X
	1.4s	404.00nm				
NRN	130.34	75	PKPd	40	47.80	3.3X
FCC	130.48	320	ePKP	40	47.00	3.3X
FRU	130.77	73	iPKP	40	51.00	6.2X
	N 18s	29.00um				
	E 20s	29.00um				
			iPP	43	07.00	
FRU	130.77	73	ePdiff	37	42.00	6.4X
KJF	130.80	28	iPKP	40	45.00	0.9
	1.3s	508.00nm				
			i	40	50.20	
			iPP	43	09.50	
			iSKP	44	18.50	
			e	50	00.00	
			eS	51	28.00	
			ePS	53	08.00	
			eSS	00	12.00	
COR	131.06	290	iPKPc	40	54.00	8.8X
NEW	131.07	298	ePKP	40	29.00	-16.2X
	Z 20s	48.00um			7.2Msz	
			e	40	48.00	
			e	44	18.00	
CVP	131.15	137	ePKPc	40	55.40	9.3X
AAA	132.20	74	iPKPd	40	53.80	6.2X
			iPP	43	21.80	
PRZ	132.30	76	ePKP	40	51.00	3.1X
	1.0s	60.00nm				
			ePP	43	24.00	
			eSKS	48	04.00	
TLG	132.41	75	iPKP	40	53.00	5.0X
	7.0s	7000.00nm				
	Z 18s	22.00um			6.9Msz	
			ePP	43	20.00	
			eSPP	55	14.00	
HKC	132.52	126	ePKP	40	55.00	6.3X
			eS	43	20.00	
GZH	132.89	124	iPKPd	40	55.00	5.7X
			PP	43	20.00	
			PKS	44	27.00	
PNT	132.95	297	ePKP	40	44.00	-4.7X
	1.5s	485.00nm				
			pP	40	58.00	
GYA	132.99	115	PKP	40	56.00	6.4X
			PP	43	30.00	
			PKS	44	25.00	
EDM	133.19	304	ePKP	40	39.50	-9.6X
	1.5s	1280.00nm				
SOD	133.27	25	iPKP	40	45.20	-3.5X
			i	40	50.50	
			iPP	43	21.40	
			i	44	34.00	
TRO	133.79	20	ePKP	40	58.50	8.9X
PGC	134.17	294	ePKP	41	02.00	11.0X
APA	134.88	28	iPKPd	40	58.30	6.5X
			iPP	43	35.20	
			iSPP	55	42.00	
KEV	135.36	23	iPKP	40	54.00	1.4
	1.0s	100.00nm				
			i	41	02.00	
			iPP	43	36.50	
			i	44	10.50	
			ePPS	55	48.00	
			eSS	01	24.00	
CD2	135.44	108	PKP	40	49.00	-5.1X
			e	40	58.50	
			PP	43	35.00	
			PKS	44	27.00	
QZH	136.63	129	PKP	40	52.00	-4.4X
			e	41	01.00	
			iPP	43	44.00	
			PKS	44	36.00	
WMQ	137.79	82	ePKP	40	56.80	-1.4
			PP	43	53.00	
ANP	137.94	133	iPKP+	40	55.00	-4.0X
			eS	43	52.00	
SEM	138.96	70	ePKPd	40	58.70	-1.2
	6.6s	********nm				
			e	41	06.80	
			ePP	44	04.10	
LZH	139.74	104	PKP	41	00.50	-1.6
			PP	44	04.00	
WHN	139.88	120	ePKP	41	00.50	-1.7
			iPP	43	57.00	
			PKS	44	34.00	
YKC	140.06	314	ePKP	40	57.50	-4.1X
	0.8s	41.00nm				
RSNT	140.11	314	e(PKP)	41	00.90	-0.7
YKA	140.12	314	ePKP	41	24.40	22.7X
GTA	140.42	97	iPKP	41	02.00	-1.1
			iPP	44	09.00	
			PKS	44	36.50	
XAN	140.44	111	ePKP	41	01.00	-2.2
			PP	43	45.00	
			PKS	44	32.50	
KBS	141.09	11	iPKPd	41	06.50	3.5X
MVI	141.70	145	ePKP	41	08.00	2.4
NJ2	143.07	124	PKP	41	04.20	-3.6X
			e	41	07.00	
			iPP	44	23.00	
SSE	143.15	128	ePKP	41	04.50	-3.5X
SSE	143.15	128	iPKP	41	09.00	1.0
			PP	44	24.00	
NVS	143.32	66	iPKPd	41	04.30	-3.2X
	1.3s	830.00nm				
			ePP	44	25.30	
ELT	143.63	70	iPKPd	41	04.00	-4.1X
	1.3s	620.00nm				
ALE	144.19	352	ePKP	41	06.40	-2.0
	0.7s	621.00nm				
TIY	145.08	112	ePKP	41	09.80	-1.4
			PP	44	37.00	
CBI	145.40	160	ePKP	41	10.00	-1.9
TIA	145.92	119	ePKP	41	12.00	-0.6
			PP	44	41.50	
			PKS	44	45.50	
			SKKS	51	21.00	
TAJ	146.24	142	ePKP	41	17.00	3.8X
BTO	146.26	106	PKP	41	14.50	1.4
			e	41	19.00	
			PP	44	46.00	
HHC	147.18	107	iPKPd	41	19.40	4.8X
			e	41	25.00	
NGS	147.73	139	PKP	41	22.40	6.8X
KHE	148.15	18	iPKPd	41	19.00	4.1X
	1.8s	630.00nm				
	Z 18s	26.50um			7.1Msz	
	N 18s	12.00um				
	E 18s	10.00um				
			i	41	31.00	
NOB	148.17	142	ePKP	41	23.00	6.8X
MBC	148.54	333	ePKP	41	13.00	-2.6X
BJI	148.67	114	ePKP	41	10.50	-6.3X
	Z 18s	17.90um			6.9Msz	
	N 18s	17.20um				
			i	41	24.00	
			sPKP	42	35.00	
			PP	44	51.00	
			i	46	42.50	
			e	48	35.00	
			SKS	50	14.00	
			PPS	00	21.00	
BJI	148.67	114	ePKP	41	18.50	1.7
			e	41	24.00	
			PP	44	51.00	
PCA	148.94	298	PKP	41	08.20	-8.6X
SHN	149.20	139	ePKP	41	23.00	5.1X
MOY	149.68	83	ePKP	41	18.00	0.0
	1.6s	800.00nm				
			i	41	26.70	
INK	149.83	315	ePKP	41	16.00	-1.7
	0.7s	512.00nm				
ZAK	149.99	87	ePKP	41	18.00	-0.5
	1.5s	1750.00nm				
			ePP	45	02.90	

22d 04h

			eSS	04	32.50		STE	1.81	68	iPnd	12	59.00	-0.1	CGN	12.57	293	eP	15	28.00	-1.0
DL2	150.11	122	iPKPd	41	25.00	5.9X				eSg	13	27.40		IAS	12.57	308	eP	15	25.00	-4.0X
SHK	150.28	142	ePKP	41	20.30	0.8	ZUG	2.19	355	ePn	13	05.00	0.6	BUC1	12.59	294	iPd	15	30.00	0.8
TKS	150.40	145	ePKP	41	28.00	8.4X	GOR	2.21	41	P	13	32.40	27.7X	VAN	12.60	96	ePc	15	26.00	-3.4X
IRK	151.67	84	ePKP	41	23.00	2.0	MTA	2.41	55	P	13	08.20	0.7	DIM	12.61	283	iP	15	30.00	0.5
	4.0s	1850.00nm					NAK	2.74	113	iPnd	13	14.00	1.8	KDZ	12.77	281	iPd	15	32.00	0.3
			e	41	28.00		KRV	3.19	83	iPn	13	19.00	0.3	ASH	12.79	96	P	15	29.00	-2.9X
			e	41	44.80					iP*	13	27.00		MLR	12.95	299	iP	15	33.00	-1.2
			eSPP	58	12.00		GRS	3.31	103	ePn	13	32.40	11.9X	PVL	13.00	288	iPd	15	36.00	1.3
			eSS	04	44.00					iSn	14	01.60		PLD	13.27	283	iPc	15	42.00	3.8X
NRI	152.09	44	iPKPd	41	21.90	0.8				iSg	14	16.00		SHI	13.62	138	eP	15	41.00	-2.1
	2.1s	410.00nm					SOC	3.72	331	iPnd	13	26.00	-0.1	HLW	13.69	224	iP-	15	42.00	-1.8
			iPP	45	19.00		PYA	3.75	10	iPnd	13	28.00	1.4	MSR	13.87	300	ePd	15	37.00	-9.2X
			iSKS	48	37.00			1.0s	2200.00nm					OUR	13.87	276	ePc	15	46.60	0.4
KYS	152.88	153	ePKP	41	34.00	10.7X				iPg	13	40.00		MMB	13.99	281	iPc	15	49.00	1.2
OYM	152.89	152	ePKP	41	26.50	3.2X				eSn	14	14.00		NPS	14.03	254	eP	15	48.50	0.2
YOK	153.00	152	ePKP+	41	33.00	9.6X				eSg	14	27.00		SRS	14.11	279	ePc	15	49.80	0.5
SRY	153.08	152	ePKP	41	34.00	10.5X	TAB	3.95	124	iPc+	13	31.00	1.5	PAIG	14.15	274	ePc	15	50.20	0.3
KDC	153.33	287	(PKP)	41	18.30	-4.8X	GRO	4.00	40	P	13	33.00	3.0X	MHI	14.19	101	iP+	15	49.90	-0.6
SNY	153.37	121	iPKPd	41	29.00	5.3X	MSL	4.02	169	iPnc	13	30.50	0.1	SOH	14.31	278	ePc	15	52.60	0.6
			PP	45	24.00					iPg	13	39.50		VTS	14.40	285	iPc	15	54.00	0.9
DDR	153.43	151	ePKP	41	26.30	2.2				iSn	14	13.50		KHI	14.50	110	ePc	15	55.00	0.4
PMR	153.50	297	(PKP)	41	13.70	-9.5X				i	15	22.50		ATH	14.51	267	iPc	15	55.20	0.7
	Z 20s	30.00um			7.1Msz					i	17	20.00					iS	18	48.00	
MAT	153.71	149	PKP	41	27.00	2.6X				i	19	42.00		THE	14.62	277	ePc	15	56.90	0.9
			SKKS	52	14.00		KVT	4.71	281	ePn	13	39.70	-0.5				iS	18	43.20	
TSK	153.85	153	ePKP	41	34.00	9.4X	MAK	4.77	54	iPnc	13	45.00	4.0X	KNT	14.63	279	ePc	15	56.80	0.6
COL	154.09	304	ePKP	41	25.00	1.0		4.5s	********nm					VAY	14.87	280	eP	16	00.00	0.7
	Z 19s	37.40um			7.2Msz					eSn	14	41.00		CJR	14.88	301	eP	15	57.80	-1.7
FBA	154.09	304	(PKP)	41	13.00	-11.0X	LNK	5.40	105	iPc	13	51.00	1.1	GRG	15.02	279	ePc	16	01.40	0.1
CN2	155.77	121	PKPd	41	30.00	3.1X	ANN	5.79	323	iP	13	54.50	-0.8	LIT	15.04	275	ePc	16	01.60	0.1
			e	41	57.00					eS	15	06.00		GZR	15.08	296	eP	16	00.00	-2.0
			PP	45	34.00		BAK	5.91	87	iPd	13	57.00	-0.1	DEV	15.11	298	iPc	16	03.00	0.7
IMA	156.76	306	(PKP)	41	12.90	-14.9X	KER	7.15	145	eP	14	16.00	1.3	OBN	15.29	348	iPd	16	00.00	-4.6X
TTA	156.98	297	(PKP)	41	12.80	-15.2X	BHD	7.27	165	iPnd	14	18.20	2.0		1.2s	1000.00nm				6.0mb
MDJ	158.14	126	PKPd	41	36.00	6.1X				iP*	14	32.00			Z 18s	495.00um				
			PKS	45	08.00					iPg	14	48.00			N 18s	390.00um				
			PP	45	46.00					iSn	15	31.00			E 18s	210.00um				
BOD	159.41	80	ePKP	41	22.80	-8.0X				iS*	15	52.00					iS	18	54.00	
	1.2s	160.00nm								iSg	16	10.00		SKO	15.70	283	iPc	16	10.90	0.9
TUP	160.58	93	ePKPc	41	33.30	1.2				i	16	42.00					i	16	15.00	
	2.5s	660.00nm					SIM	7.51	310	P	14	19.00	-0.6				iS	19	08.50	
KUR	164.04	163	iPKPd	41	42.50	6.6X	KDE	8.20	280	eP	14	28.50	-0.8	MOS	15.70	350	iPd	16	07.00	-2.9X
	6.0s	********nm					HRI	8.73	218	ePd	14	35.20	-1.5		2.0s	6100.00nm				6.5mb
			ePP	46	20.00		GPA	9.06	274	iP	14	52.60	11.4X		Z 11s	157.00um				6.9MszX
			ePPP	50	09.00		ADI	9.14	220	eP	14	40.50	-1.7				eS	18	59.00	
YSS	164.69	148	ePKP	41	40.80	4.4X	ALT	9.38	266	iPc	14	46.00	0.3	LVV	15.90	313	iPd	16	10.60	-1.9
	8.0s	********nm					BCK	9.47	256	iPc	14	46.80	-0.1		Z 14s	380.00um				
			iPP	46	26.00		HRT	9.52	277	iP	14	49.50	1.9				iS	19	10.60	
			ePPP	50	16.00		CRI	9.55	219	ePc	14	46.70	-1.2	OHR	16.22	280	iPc	16	18.00	1.3
			ePPS	00	05.00		YLV	9.76	275	iP	14	52.00	1.2				i	16	22.50	
			eSSS	13	18.00		ZNT	9.92	218	eP	14	53.50	0.5	TIM	16.22	296	iPd	16	17.00	0.3
TIK	165.05	32	ePKP	41	37.00	1.0	ISK	9.98	278	iP	14	54.60	0.8	UZH	16.39	307	P	16	16.50	-2.3
	3.0s	1690.00nm					MOI	10.20	215	eP	14	57.00	0.2	MNK	16.77	329	P	16	24.00	0.5
			e	42	40.50		JER	10.24	216	eP	14	55.00	-2.4	VLS	16.85	270	eP	16	24.50	-0.2
			ePP	46	28.00					eS	17	35.00			N 10s	54.00um				
ILT	166.41	314	iPKPd	41	35.00	-2.2	ELL	10.25	253	iPc	14	58.40	0.8	TTG	17.31	284	iPd	16	32.00	1.6
	1.8s	50.00nm					GVI	10.48	216	eP	15	15.00	14.3X				eS	19	37.00	
			e	42	42.00		ASI	10.66	215	eP	15	13.50	10.3X	JOS	17.43	305	iPd	16	31.00	-0.9
			iPP	46	36.00		KAT	10.92	91	iPc	15	05.50	-1.1		2.0s	820.00nm				5.5mb
			ePPP	50	32.00			6.0s	********nm			7.7mb	X	PSZ	17.65	303	iPd	16	35.00	0.2
YAK	168.03	73	ePKPd	41	40.10	1.5				iS	17	16.50		SPC	17.85	307	eP	16	36.20	-1.2
SKR	169.94	186	iPKPc	41	48.40	8.3X	EDC	10.92	275	iPd	15	06.60	-0.1	BUD	18.10	301	iPd	16	41.20	1.0
SEY	177.54	23	ePKP	41	39.60	-2.6X	PSN	10.93	292	iPc	15	05.00	-1.7	KRA	18.37	309	iPd	16	40.80	-2.7
	1.8s	100.00nm					MKT	10.96	213	eP	15	10.00	2.7		1.2s	654.00nm				5.7mb
			eSS	09	09.00					eS	18	22.00					i	16	44.30	
MGD	178.06	105	iPKPd	41	41.30	-1.0	DMK	10.98	282	iP	15	07.00	-0.5				i	16	47.90	
	2.4s	1350.00nm					BSO	10.98	217	eP	15	07.10	-0.5				i	17	07.30	
			e	43	35.00					eS	18	18.50					i	18	07.00	
			iPP	47	29.00		CVD	11.20	296	eP	15	22.00	11.6X				iS	19	56.00	
			ePPP	51	50.00		TLB	11.27	297	eP	15	06.00	-5.4X	LCI	18.45	278	eP	16	42.00	-2.5
	S.D. = 1.3	on 145 of 385 obs.					YER	11.30	258	iPc	15	11.80	-0.2	SRO	18.65	302	iP	16	47.50	0.6
							MFT	11.33	277	iP	15	11.80	-0.6				iS	20	18.30	
	OCT 30, 1983 04h 12m 28.58± 0.26s						CFR	11.38	300	ePd	15	10.00	-2.9	HRB	18.74	302	eP	16	55.80	7.7X
	40.337 N ± 1.5km 42.164 E ± 0.9km						IZM	11.70	265	iP	15	16.70	-0.6				iS	20	34.80	
	DEPTH = 21.0 ± 1.9 km						KIS	11.71	309	iPd	15	12.50	-4.9X	BRT	18.95	280	iPc	16	50.50	-0.1
	6.1mb (129 obs.) 6.9Msz (25 obs.)							3.0s	2300.00nm			6.9mb		SAM	19.02	84	P	16	49.80	-1.8
	TURKEY					(366)				iS	17	36.50		ARU	19.35	28	ePc	16	53.00	-2.3
	At least 1342 people killed, 534						JMB	11.90	285	eP	15	22.00	2.1		4.0s	********nm				7.2mb X
	seriously injured, more than						PPE	12.12	304	ePd	15	18.00	-4.9X		Z 19s	373.00um				
	25,000 homeless and 50 villages						BIR	12.13	304	eP	15	22.00	-1.1		N 16s	273.00um				
	completely destroyed in Kors and						EZN	12.15	273	iPd	15	23.80	0.5		E 18s	464.00um				
	Erzurum Provinces.						PRK	12.28	270	eP	15	25.50	0.4				eS	20	20.00	
										eS	19	15.00		ZST	19.53	302	iP	16	57.90	0.4
LEN	1.35	71	iPg	12	52.00	-0.5	ISR	12 44	298	ePc	15	26.00	-1.3				iS	20	51.90	
AKH	1.46	43	iPgc	12	54.40	0.4	CLI	12.46	305	eP	15	24 50	-3.1X	ROI	19.62	276	eP	16	58.50	-0.2
BKR	1.73	36	iPn	12	59.20	1.3	VRI	12.56	301	ePd	15	25.50	-3.3X	ORI	19.63	278	e(P)	16	58.00	-0.7

30d 04h

CSI		19.80 277 eP	16 59.50	-1.0		
ACI		19.94 276 eP	17 00.00	-2.0		
MMN		20.01 277 iPc	17 02.40	-0.2		
CZI		20.02 275 eP	17 00.90	-1.9		
VIE		20.02 302 eP-	17 03.00	0.3		
VKA		20.06 302 ePd	17 02.50	-0.6		
		4.0s 806.00nm	5.4mb X			
SVE		20.41 30 iPc	17 04.80	-1.9		
		5.0s ********nm	7.1mb X			
	Z	18s 618.00um	7.0Msz			
	N	18s 298.00um				
	E	18s 262.00um				
		eS	20 42.00			
SGO		20.42 279 eP	17 06.00	-0.9		
TAS		20.53 78 iPc	17 08.00	-0.1		
		1.8s ********nm	6.9mb			
	E	14s 240.00um				
		eS	20 55.00			
DSH		20.60 86 P	17 09.00	0.0		
MSI		20.69 273 eP	17 08.00	-1.7		
PUL		20.82 343 ePd	17 10.50	-0.4		
		2.0s 7600.00nm	6.7mb			
	Z	19s 420.00um	6.8Msz			
	N	20s 320.00um				
	E	19s 190.00um				
		iPP	17 30.00			
		eS	21 00.00			
		iSSS	21 42.00			
KSP		20.83 309 ePd	17 10.30	-0.8		
		2.0s 1540.00nm	6.1mb			
		i	17 11.50			
		iS	20 58.30			
LJU		20.88 295 iPd	17 12.30	0.6		
		i	17 15.90			
		i	17 23.00			
		i(S)	21 13.10			
DUI		20.92 283 eP	17 12.00	-0.1		
CEY		20.93 294 iPd	17 12.80	0.6		
		e(S)	21 09.00			
TRI		21.39 294 iPc	17 16.30	-0.5		
		iPP	17 49.60			
		iS	21 13.00			
KMR		21.44 300 iP-	17 17.80	0.4		
KUL		21.51 88 iPc	17 19.20	1.0		
		3.0s ********nm	6.8mb			
		iPcP	21 28.00			
		iSSS	22 05.70			
RBL		21.59 296 iPc	17 19.80	0.9		
PRU		21.63 306 iPd	17 19.10	-0.1		
		1.6s 1040.00nm	6.0mb			
	Z	16s 95.00um	6.3MszX			
		iS	21 20.00			
AQU		21.65 285 eP	17 19.50	0.0		
KBA		21.82 298 iPd	17 22.30	1.0		
		1.1s 298.00nm	5.6mb			
GIB		21.92 273 eP	17 21.00	-1.3		
PRO		21.93 289 eP	17 24.60	2.4		
KHC		22.02 303 iPd	17 23.50	0.3		
		1.2s 1100.00nm	6.2mb			
	Z	15s 82.00um	6.3MszX			
	N	14s 57.20um				
	E	14s 57.00um				
		e	17 55.00			
		S	21 38.60			
MNS		22.18 285 eP	17 24.50	-0.2		
RDP		22.21 283 eP	17 26.20	1.0		
RMP		22.22 283 iPc	17 24.00	-1.1		
		iPP	18 00 00			
		iS	21 28.00			
BHG		22.22 299 eP	17 25.50	0.4		
BRG		22.25 308 iPd	17 24.90	-0.4		
		1.5s 690.00nm	5.9mb			
		iS	21 32.00			
WET		22.47 303 iPd	17 27.70	0.0		
		eS	21 38.00			
PKK		22.56 337 iP	17 28.10	-0.3		
CTI		22.88 295 eP	17 32.50	0.7		
ANR		22.90 79 P	17 34.00	2.1		
NUR		22.93 338 iP	17 32.20	0.2		
		1.1s 93.60nm	5.2mb			
	Z	19s 628.00um	7.1Msz			
		i	17 37.50			
		eS	21 32.00			
CLL		22.94 308 iPd	17 32.90	0.7		
		1.7s 2200.00nm	6.4mb			
		iS	21 44.00			
ERC		22.99 274 eP	17 31.50	-1.3		
FIR		23.14 289 eP	17 36.50	2.4		
		eS	21 44.00			
BRN		23.18 311 iPd	17 35.50	1.1		
		eS	21 48.00			
FUR		23.35 300 iPd	17 37.40	1.2		
		eS	21 58.00			
HOF		23.37 305 iPd	17 37.10	0.7		
		3.0s 6250.00nm	6.6mb			
		eS	21 55.00			
OGA		23.37 297 iPd	17 37.80	1.1		
GAP		23.41 298 iPd	17 37.80	1.0		
		1.6s 4530.00nm	6.8mb			
MOX		23.61 306 iPd-	17 39.50	0.8		
		2.0s 1180.00nm	6.1mb			
	Z	16s 23.50um	5.7MszX			
	N	15s 13.70um				
	E	15s 15.30um				
		iPP	18 08.00			
		iS	22 00.00			
GRF		23.64 304 iPd	17 37.40	-1.7		
		eS	21 58.00			
SAL		23.65 293 eP	17 41.00	1.9		
KAF		23.83 341 iP	17 40.60	-0.1		
OSS		23.96 296 ePd	17 43.40	1.0		
KEF		24.23 340 iP	17 44.60	0.0		
FRU		24.32 73 iPc	17 48.00	2.3		
		2.3s 2790.00nm	6.4mb			
	N	13s 305.00um				
	E	20s 215.00um				
		iS	22 07.00			
SUF		24.39 342 iP	17 46.00	-0.1		
		0.9s 470.00nm	6.1mb			
VDL		24.42 295 ePd	17 48.00	1.2		
SAX		24.55 297 ePd	17 48.40	0.2		
VG1		24.65 292 eP	17 51.50	2.7		
LLS		24.76 296 ePd	17 50.40	0.3		
STU		24.80 301 iPd-	17 49.50	-0.8		
		1.0s 1120.00nm	6.4mb			
UPP		24.83 330 iP	17 50.00	-0.4		
		iS	22 24.80			
COP		24.86 318 iPd	17 51.00	0.3		
		1.0s 600.00nm	6.2mb			
		iS	21 53.00			
CVF		24.97 286 eP	17 51.70	-0.2		
		2.0s 3180.00nm	6.6mb			
SLE		25.16 298 ePd	17 53.50	-0.3		
ZUL		25.21 298 ePd	17 53.90	-0.3		
KJF		25.36 345 iP-	17 55.00	-0.3		
		0.5s 828.00nm	6.6mb			
		i	18 03.00			
		eS	22 12.00			
HAM		25.39 312 iPd	17 58.10	2.3		
BUH		25.43 300 eP	17 55.20	-1.1		
ORO		25.43 293 eP	17 55.50	-0.9		
MMK		25.45 294 ePd	17 56.30	-0.4		
TNS		25.50 304 iPd	17 57.40	0.4		
		eS	22 30.00			
NRN		25.52 76 eP	17 59.10	1.6		
		eS	22 30.00			
DIX		25.83 294 ePd	18 00.00	-0.3		
KSH		25.87 81 Pc	18 02.00	1.4		
		iS	22 39.00			
AAA		25.98 72 iPc	18 03.00	1.5		
		8.0s 21.00nm	3.8mb X			
		iS	22 37.00			
CDF		26.03 300 eP	18 00.80	-1.1		
		1.1s 253.00nm	5.8mb			
TLG		26.30 72 iPc	18 04.10	-0.3		
		2.4s 1030.00nm	6.0mb			
BSF		26.31 298 eP	18 03.50	-1.1		
		0.7s 295.00nm	6.0mb			
BNS		26.43 305 iPd	18 06.50	1.1		
		1.5s 730.00nm	6.1mb			
		eS	22 47.00			
FRF		26.49 289 eP	18 05.60	-0.5		
		1.3s 1160.00nm	6.4mb			
HFS		26.56 328 eP	18 06.20	-0.3		
		0.8s 272.00nm	5.9mb			
LMR		26.61 288 eP	18 06.60	-0.6		
		1.4s 625.00nm	6.1mb			
HAU		26.62 299 eP	18 06.20	-1.1		
		1.3s 555.00nm	6.0mb			
LRG		26.71 289 eP	18 07.60	-0.4		
		1.3s 739.00nm	6.2mb			
WTS		26.85 308 ePd	18 10.50	1.3		
		1.2s 750.00nm	6.2mb			
		e	18 25.00			
		e	19 03.00			
MUD		26.85 318 iPc	18 11.00	1.8		
		1.3s 440.00nm	5.9mb			
WLF		26.89 302 P	18 08.00	-1.7		
		e	18 15.00			
		S	22 53.00			
WIT		27.11 309 eP	18 14.00	2.4		
		e	18 59.00			
CDR		27.11 289 eP	18 11.90	0.1		
		e	18 13.00			
		i	18 14.70			
		i	21 34.80			
		e	21 52.40			
PRZ		27.13 73 eP	18 13.50	1.3		
		1.4s 550.00nm	6.0mb			
	Z	16s 150.00um	6.7MszX			
	E	16s 248.00um				
		eS	22 52.00			
ENN		27.18 305 ePd	18 13.50	1.2		
		1.1s 469.00nm	6.1mb			
		e	18 32.00			
APA		27.70 353 ePd	18 16.90	0.1		
		1.5s 320.00nm	5.8mb			
	Z	19s 198.00um	6.7Msz			
		iS	22 53.00			
DBN		27.86 307 iP-	18 19.00	0.6		
	Z	14s 116.00um	6.6MszX			
		iS	23 02.00			
SSB		27.86 293 eP	18 18.50	-0.2		
DOU		27.94 303 Pc	18 20.50	1.3		
		e	18 26.00			
		PcP	21 36.70			
		S	23 07.00			
KON		28.05 324 iP	18 19.20	-0.9		
NB2		28.08 328 P	18 19.00	-1.4		
		1.0s 576.00nm	6.3mb			
UCC		28.17 305 Pd	18 21.50	0.2		
		e	18 28.50			
		S	23 28.00			
LBF		28.20 296 eP	18 20.60	-1.1		
		1.1s 329.00nm	6.0mb			
LOR		28.28 297 eP	18 21.30	-1.1		
		1.1s 272.00nm	5.9mb			
SMF		28.30 296 eP	18 22.00	-0.5		
		1.1s 575.00nm	6.2mb			
SEM		28.30 56 ePc	18 23.20	0.7		
		2.0s 1350.00nm	6.3mb			
		eS	23 13.50			
SOD		28.42 347 iP	18 23.40	0.1		
SSF		28.52 297 eP	18 23.50	-1.0		
		0.9s 169.00nm	5.8mb			
AVF		28.63 296 eP	18 24.60	-0.9		
		1.3s 460.00nm	6.1mb			
ARO		28.70 179 iPd	18 27.50	1.1		
MZF		29.18 295 eP	18 29.70	-0.8		
		1.2s 572.00nm	6.2mb			
TCF		29.44 295 eP	18 32.20	-0.6		
		1.2s 369.00nm	6.0mb			
CAF		29.64 292 eP	18 33.90	-0.7		
		1.0s 209.00nm	5.9mb			
LSF		29.91 295 eP	18 35.90	-1.1		
		1.3s 275.00nm	5.9mb			
RJF		29.99 293 eP	18 37.40	-0.3		
		1.8s 911.00nm	6.3mb			
LPO		30.29 292 eP	18 39.60	-0.7		
		1.1s 265.00nm	6.0mb			
BER		30.29 324 iP	18 41.00	0.8		
KEV		30.54 350 iP	18 42.40	0.1		
		1.2s 197.00nm	5.8mb			
		i	18 47.00			
		eS	23 40.00			
LFF		30.58 293 eP	18 42.20	-0.7		
		1.1s 284.00nm	6.0mb			
MLS		30.60 289 iP	18 41.30	-1.8		
ABA		30.63 276 iP	18 44.50	1.1		
NVS		30.81 48 iPc	18 44.20	-0.6		
		2.8s ********nm	7.5mb X			
		iS	23 49.00			
NDI		30.94 101 iPc	18 46.00	-0.3		
		1.5s 1060.00nm	6.5mb			
	Z	20s 88.70um	6.4Msz			
	N	20s 83.30um				
	E	20s 85.10um				
		iS	23 56.00			
LDF		30.95 300 eP	18 45.40	-0.7		
MFF		31.05 296 eP	18 45.50	-1.5		
		1.1s 265.00nm	6.0mb			

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EPF	31.12	289	eP	18	45.60	-2.1				e	20	44.00							PPP	24	51.00		
	0.9s	118.00nm			5.7mb					eS	25	40.00							S	29	00.00		
FLN	31.19	300	eP	18	47.20	-1.0	LIS	39.16	285	eP	19	59.30	2.9						SS	32	46.00		
AAE	31.32	186	eP	18	50.70	0.7	AVE	39.88	276	iP	20	02.50	0.1						SSS	34	26.00		
EBR	31.44	285	eP	18	53.00	2.5	KBS	40.51	351	iP	20	08.00	1.0	XAN	52.43	74	Pc	21	41.60	-0.2			
		e		22	56.00					eS	31	43.00					sP	22	06.00				
		e		23	32.00		GBA	40.76	121	P	20	09.00	-0.8				S	29	07.00				
		eS		24	04.00		KHE	40.83	4	eP	20	11.00	1.3	CHG	52.89	96	iPc+	21	44.00	-1.3			
GRR	31.45	299	eP	18	49.20	-1.3		2.0s	810.00nm			6.1mb			1.0s	120.00nm			5.8mb				
	1.2s	720.00nm			6.4mb					iPP	21	46.00					eS	29	12.00				
LPF	31.58	299	eP	18	50.20	-1.4				ePPP	22	20.00		TIY	53.32	69	iPc	21	48.00	-0.3			
	1.1s	265.00nm			6.0mb					iS	26	26.00					pP	22	06.00	70kmX			
JAU	31.63	289	(P)	18	52.70	0.3	LSA	41.04	89	eP	20	13.40	0.8				S	29	17.00				
ATE	31.87	289	(P)	18	53.70	-0.5	MOY	41.33	54	eP	20	10.50	-3.6X	KIC	53.84	244	iPc	21	50.10	-2.2			
ELT	32.31	51	iPc	18	56.60	-1.3		2.0s	1120.00nm			6.2mb					S	29	37.00				
	2.1s	1330.00nm			6.5mb		BNG	41.60	217	iPd	20	14.80	-1.9	BDT	53.88	98	iPc	21	51.50	-1.0			
		iS		24	14.00			1.2s	45.00nm			5.1mb X			1.0s	345.00nm			6.3mb				
ALI	32.81	281	iP+	19	03.00	0.5	NAI	41.70	188	iPd	20	22.80	5.1X	YAK	54.27	35	iPc	21	52.70	-2.2			
		iPP		20	09.00			1.0s	100.00nm			5.5mb			1.3s	480.00nm			6.4mb				
		iS		24	07.00		AKU	41.94	327	iPd	20	21.70	2.8				iPcP	23	00.80				
RLA	32.91	275	iP	19	05.00	1.7		1.9s	1410.00nm			6.4mb					iPP	24	01.80				
EKA	33.26	312	Pc	19	06.50	0.3				i	22	12.40					iPPP	25	01.40				
	0.8s	124.00nm			5.9mb		ZAK	42.97	55	iPc	20	28.50	0.9				iS	29	29.80				
LGR	33.29	289	iPd	19	07.50	0.9		2.2s	960.00nm			6.1mb					eSPP	29	46.00				
		iPP		20	18.20			N 16s	122.00um								iScS	31	37.40				
		iS		24	35.00			E 18s	235.00um								iSSS	35	00.20				
WMQ	33.65	69	iPc	19	10.50	0.7				ePP	22	11.00		GYA	54.50	84	P	21	56.00	-1.2			
		S		24	36.00					eS	26	57.00					PP	24	06.00				
		PcS		25	33.00					eSS	29	58.00					PPP	25	15.00				
ALM	34.77	279	iPd	19	19.30	-0.2	IRK	43.27	52	iPc	20	29.00	-1.0				S	29	37.00				
	2.2s	32.20nm			4.9mb X			2.0s	600.00nm			6.0mb		GDH	54.88	334	ePd	21	59.00	-0.3			
		iS		24	47.10			Z 16s	175.00um			7.1MszX			1.0s	250.00nm			6.2mb				
POO	34.83	119	iPc	19	21.80	1.6		N 16s	101.00um								iS	29	45.00				
	1.0s	200.00nm			6.0mb			E 17s	115.00um					BJI	54.92	64	eP	22	00.00	0.1			
ETA	34.85	307	eP	19	19.50	-0.5				ePcP	22	19.00					pP	22	04.00	13kmX			
	1.1s	200.00nm			5.9mb					ePPP	22	48.00					PP	24	06.00				
ECP	34.95	306	eP	19	20.10	-0.7				eS	26	52.00					eS	29	43.00				
	0.7s	125.00nm			5.9mb		KDD	43.29	124	eP	20	32.00	1.1				PS	29	53.00				
TOL	35.04	285	iPd	19	20.50	-1.2	REY	43.45	325	iP	20	36.80	5.6X				SS	33	30.00				
	6.0s	8.00nm			3.8mb X					i	22	23.60		KHT	55.08	101	eP	22	02.00	0.6			
		i		19	24.00		GTA	43.57	72	iPc	20	33.20	0.5	PCT	57.27	99	eP	22	17.00	-0.1			
		iPP		20	31.00					sP	20	55.50			1.2s	213.00nm			6.0mb				
		ePPP		20	58.00					PP	22	17.00		NNT	57.33	102	eP	22	21.20	3.7X			
		iPcP		21	54.00					S	27	03.50		TIA	57.34	68	Pc	22	16.50	-0.9			
		i		23	14.00					SS	30	16.00					S	29	10.50				
		iS		24	55.00		DAG	44.53	343	iPc	20	38.30	-1.6	MTD	57.67	192	eP	22	19.00	-0.9			
		(PcS)		25	27.00			1.1s	109.00nm			5.6mb					ipP	22	36.00	65kmX			
		iSS		27	32.00					i	22	26.00		KRI	58.06	194	eP	22	20.00	-2.6			
DLE	35.07	308	eP	19	20.80	-1.0				i	27	17.00					ipP	22	38.00	69kmX			
ECB	35.20	307	eP	19	22.70	-0.2	LZH	47.79	74	iPc+	21	07.00	0.5	WHN	58.15	75	iPc	22	22.50	-0.6			
	1.1s	85.00nm			5.6mb			2.5s	3120.00nm			6.9mb					PP	24	35.00				
DMU	35.31	309	eP	19	23.10	-0.8		N 11s	69.70um								S	30	24.00				
	1.0s	180.00nm			5.9mb					pP	21	23.00	62kmX	SNY	59.09	59	iPc	22	28.50	-1.1			
DCN	35.51	308	iPc	19	26.30	0.7				sP	21	30.00					PP	24	51.00				
	1.3s	500.00nm			6.3mb					PP	22	59.00					iS	30	39.00				
		iPg		19	30.70					ePPP	24	12.00		AVY	59.18	174	ePc	22	30.00	-0.5			
MAL	36.29	280	iPd	19	31.50	-0.8				PcS	26	29.00		DL2	59.18	63	iPc	22	28.00	-2.2			
		i		20	19.00					iS	28	06.00					S	30	39.00				
		iPP		21	00.00					SS	31	42.10		CN2	59.37	57	iPc	22	30.00	-1.5			
		iS		24	56.00		BOD	47.86	43	eP	21	03.60	-2.8				S	30	42.00				
UER	37.06	55	iPc	19	39.00	0.4		1.5s	730.00nm			6.5mb		NJ2	60.66	71	iPc	22	39.50	-1.0			
	2.0s	1090.00nm			6.3mb		TEN	48.83	275	iPc	21	16.80	2.4				PP	24	52.00				
		iS		25	19.50					iPP	23	11.00					PPP	26	23.00				
VAL	37.34	306	iP	19	41.70	0.7				iS	28	24.00					S	30	49.00				
		iS		25	30.00		CD2	50.05	80	iPc	21	24.00	0.2	GZH	61.41	83	iPc	22	45.00	-0.7			
DMN	37.46	96	iPc	19	42.80	0.2				eS	28	37.00					S	31	08.00				
KKN	37.50	96	iPc	19	42.60	-0.3	BTO	50.41	66	iPc	21	26.60	0.2	BUL	61.48	195	iPc	22	45.00	-1.1			
NRI	37.71	25	iPc	19	43.80	0.0				PP	23	24.00					epP	23	02.00	64kmX			
	2.7s	2040.00nm			6.5mb					S	28	44.00					iPcP	23	31.00				
	N 19s	113.00um					TIK	51.29	24	ePc	21	31.00	-1.6				iS	31	14.00				
		iPPP		21	38.00			2.2s	1260.00nm			6.5mb		SNG	61.52	106	iPc+	22	44.00	-2.5			
		iPcP		22	02.00					ePP	23	32.00			1.6s	667.00nm			6.5mb				
		iS		25	32.00					eS	28	52.00			Z 20s	32.60um			6.5Msz				
		eSS		28	10.00					eSPP	29	12.00			N 20s	34.40um							
PKI	37.71	96	iPc	19	44.40	-0.4				eSS	32	31.00			E 20s	37.60um							
	1.4s	1530.00nm			6.6mb		HHC	51.38	65	iPc	21	34.00	0.1				iS	31	29.00				
SFS	37.73	280	iPc	19	46.00	1.5				S	28	52.00		MDJ	61.59	54	eP	22	47.00	0.4			
		i		19	53.00		TUP	51.82	47	ePc	21	37.80	1.0				S	31	07.00				
		iPP		20	22.00			2.4s	820.00nm			6.2mb		HKC	62.49	83	iP	22	52.00	-0.9			
		i		21	20.00		ALE	52.13	351	eP	21	37.70	-1.2				iS	31	24.00				
		i		22	24.00			0.7s	53.00nm			5.6mb		FRB	62.79	332	ePc	22	53.00	-1.3			
		iS		25	22.00		KMI	52.22	87	iPc+	21	39.50	-1.0		1.0s	405.00nm			6.5mb				
		iSS		28	31.00			9.0s	11.60nm			3.8mb X		SSE	62.86	71	iPc+	22	54.00	-1.2			
IFR	38.05	275	iPc	19	47.50	0.1		E 17s	56.20um						1.0s	433.00nm			6.6mb				
HYB	38.80	115	iPc	19	53.00	-0.7				pP	21	52.00	45kmX		N 15s	20.40um							
	1.0s	470.00nm			6.2mb					PcP	22	50.00			E 15s	49.90um							
		e		20	14.50					PP	23	43 00					pP	23	07.00	46kmX			

30d 04h

		sP	23	12.50			
		iS	31	16.00			
		PS	31	41.50			
		ScS	32	44.00			
MBC	63.10	355 eP	22	55.50	-0.7		
	1.1s	81.00nm			5.8mb		
SEY	63.12	29 iPc	22	56.60	0.1		
	2.5s	4910.00nm			7.2mb X		
		ePP	25	13.50			
		iS	31	27.60			
		ePPS	31	54.60			
IPM	63.57	108 ePd	22	57.20	-2.9X		
	1.0s	175.00nm			6.2mb		
		e	25	05.30			
VLA	63.78	55 iPd	22	58.00	-3.2X		
		iPP	25	23.00			
		iPPP	26	48.00			
		iS	31	34.00			
		iPPS	32	04.00			
MGD	64.18	32 iPc	23	11.60	8.1X		
	1.3s	340.00nm			6.3mb		
Z	19s	314.00um			7.5Msz		
N	19s	32.00um					
E	19s	299.00um					
		ePP	25	23.00			
		iS	31	34.00			
		iScS	32	58.00			
QZH	64.33	78 iPc	23	04.00	-0.9		
		sP	23	28.00			
STJ	64.52	312 eP	23	08.20	2.3		
ANP	66.37	76 iP+	23	20.00	1.8		
		iS	32	12.00			
PPI	66.59	112 ePd	23	19.00	-0.6		
	1.5s	300.00nm			6.2mb		
KGM	66.98	108 ePd	23	21.70	-0.4		
SLR	66.99	194 iPc-	23	21.60	-0.4		
	1.0s	100.00nm			5.9mb		
Z	17s	104.00um			7.1MszX		
PRE	67.02	194 e(P)	23	22.00	-0.3		
	0.8s	430.00nm			6.6mb		
KSR	67.38	195 iPc	23	23.50	-1.0		
BPI	67.46	194 iPc	23	23.70	-1.4		
SCH	67.54	324 ePc	23	24.90	-0.2		
	1.2s	222.00nm			6.2mb		
EVA	67.60	193 eP	23	25.70	-0.3		
	1.5s	380.00nm			6.3mb		
ILT	67.79	16 iPd	23	26.00	-0.4		
	2.6s	1900.00nm			6.8mb		
Z	20s	145.00um			7.2Msz		
N	20s	84.00um					
E	20s	51.00um					
		ePcP	23	50.00			
		ePP	25	56.00			
		ePPP	27	30.00			
YSS	68.01	47 iPc	23	29.00	0.8		
	6.0s	********nm			7.2mb X		
		ePcP	23	56.40			
		ePPP	27	42.00			
		iS	32	32.00			
		ePPS	33	05.00			
		eScS	33	26.00			
		eSS	36	58.00			
JOZ	68.08	190 iPc	23	25.60	-3.1X		
NGS	68.11	65 eP	23	29.00	0.0		
		eS	32	34.00			
SWZ	68.97	196 iPd	23	33.50	-0.9		
	1.0s	130.00nm			6.0mb		
SHK	69.01	62 ePc	23	33.20	-1.4		
SAP	69.55	51 eP	23	40.00	2.3		
		eS	32	52.00			
SEK	69.63	194 iPc	23	38.50	0.1		
KIM	70.61	196 iPc	23	43.00	-1.4		
	0.6s	207.00nm			6.4mb		
BLF	70.67	195 iPc	24	02.50	17.8X		
OBI	70.75	50 eP	23	48.00	3.0X		
		e	56	08.00			
BAG	70.83	85 eP+	23	44.00	-2.1		
	1.8s	636.00nm			6.4mb		
CVP	70.99	83 ePc	23	46.00	-0.8		
MAT	71.49	58 iPc	23	48.00	-1.7		
	1.2s	156.00nm			6.0mb		
		eS	33	10.00			
INK	71.65	358 eP	23	49.50	-0.5		
	1.5s	176.00nm			5.9mb		
KUR	71.94	46 iPd	23	55.50	3.4X		
	6.0s	********nm			7.0mb X		
Z	15s	46.70um			6.9MszX		
N	18s	151.00um					
E	18s	178.00um					
		ePPP	28	19.00			
		eS	33	14.50			
		eSP	33	40.00			
MIY	71.99	53 eP	23	34.00	-18.5X		
PET	72.07	35 eP	23	52.00	-0.8		
	5.0s	4150.00nm			6.7mb X		
		ePP	26	36.00			
		ePPP	28	20.00			
		eS	33	16.00			
		eSS	38	00.00			
HVD	72.26	195 iPd	23	56.70	2.5		
	1.5s	190.00nm			5.9mb		
QCP	72.29	86 iP	23	46.00	-8.6X		
SKR	72.54	38 eP	23	57.60	2.0		
Z	18s	72.40um			7.0Msz		
N	18s	69.70um					
E	18s	92.90um					
		ePP	26	44.00			
		ePPP	28	29.00			
		eS	33	24.00			
		eSS	37	55.00			
PGP	72.89	87 eP	23	53.00	-5.2X		
IMA	73.22	7 P	23	59.80	0.3		
PPR	73.51	91 eP	24	03.00	1.2		
KKM	73.96	96 ePc	24	04.80	0.3		
	1.2s	88.80nm			5.7mb		
GRM	74.69	193 iP-	24	09.20	1.0		
	1.4s	256.00nm			6.1mb		
Z	22s	24.10um			6.4Msz		
COL	74.81	4 eP	24	08.00	-0.6		
Z	19s	37 80um			6.7Msz		
		eS	33	49.00			
FBA	74.81	4 P	24	08.70	0.1		
SUR	75.00	199 iPd	24	10.40	0.2		
	0.7s	100.00nm			6.0mb		
LGP	75.23	85 ePc	24	13.00	1.3		
	1.0s	166.00nm			6.0mb		
YKC	75.82	349 eP	24	13.50	-0.9		
	1.1s	45.00nm			5.4mb		
YKA	75.82	349 eP	24	15.40	1.0		
RSNT	75.84	349 iP	24	14.00	-0.4		
	2.0s	1010.00nm			6.5mb		
TTA	76.05	8 P	24	16.40	0.6		
TUH	76.29	200 eP	24	17.00	-0.3		
CER	76.32	200 iPd	24	17.00	-0.5		
	1.3s	80.00nm			5.6mb		
BNH	76.47	318 iP	24	19.80	1.4		
MNT	77.03	319 iPc	24	22.40	1.0		
TOA	77.69	4 (P)	24	26.00	1.2		
SVW	77.87	9 P	24	26.00	0.1		
PMR	78.01	5 P	24	26.60	0.1		
Z	20s	40.00um			6.7Msz		
OTT	78.13	320 iPc	24	29.00	1.5		
	1.2s	94.00nm			5.7mb		
RSNY	78.16	319 iP	24	28.60	0.9		
	2.0s	472.00nm			6.2mb		
SMY	78.40	28 P	24	29.00	0.2		
Z	19s	112.00um			7.2Msz		
CGP	78.90	88 ePd	24	31.00	-1.2		
	1.0s	95.00nm			5.8mb		
PCA	79.90	1 P	24	38.00	1.1		
DAV	80.44	89 iP+	24	40.00	-0.5		
FFC	80.46	340 eP	24	39.00	-0.9		
	1.0s	45.00nm			5.4mb		
RSON	81.32	333 iP	24	45.30	0.8		
	2.0s	377.00nm			6.1mb		
KDC	81.51	8 P	24	47.00	1.7		
LHC	81.73	330 eP	24	46.50	-0.2		
	0.9s	103.00nm			5.9mb		
ELF	82.45	322 P	24	50.20	-0.4		
LDN	82.51	322 P	24	50.20	-0.7		
DLA	82.83	322 P	24	51.40	-1.1		
SIT	82.95	359 P	24	54.10	1.3		
MNI	83.48	94 eP	25	00.00	3.7X		
EDM	84.44	345 eP	25	00.00	-0.6		
MRG	84.50	319 iPc	25	02.00	0.9		
SES	86.64	343 ePc	25	11.20	-0.4		
	1.4s	545.00nm			6.6mb		
ITR	88.51	257 eP	25	20.70	-0.3		
		i	25	24.60			
		i	28	50.70			
NEW	89.89	346 eP	25	27.00	-0.2		
Z	20s	60.00um			7.0Msz		
FDF	90.42	290 iPd	25	35.00	4.9X		
		S	36	59.00			
RSCP	90.44	320 eP	25	30.40	0.4		
	2.0s	405.00nm			6.4mb		
Z	20s	70.60um			7.1Msz		
PGC	90.48	351 eP	25	30.20	0.4		
RSSD	90.58	336 eP	25	32.30	1.6		
	2.0s	307.00nm			6.2mb		
SOB1	90.65	259 eP	25	32.00	1.0		
		e	26	15.40			
		e	29	06.60			
SXM	90.67	342 eP	25	30.30	-0.7		
GUMO	90.74	72 eP	25	29.00	-2.5		
		eS	36	02.00			
FVM	90.78	324 eP	25	30.50	-0.9		
	2.0s	124.00nm			5.9mb		
GUA	90.81	72 eP	25	30.00	-1.8		
Z	19s	26.40um			6.7Msz		
LRM	91.26	343 eP	25	34.00	0.1		
SJG	91.68	295 eP	25	36.00	0.2		
	1.0s	75.00nm			6.0mb		
Z	22s	25.90um			6.6Msz		
TRN	93.32	287 eP	25	45.40	2.0		
	1.3s	1810.00nm			7.3mb X		
BDW	93.41	340 eP	25	44.00	0.2		
	2.0s	164.00nm			6.1mb		
TMI	93.51	341 e(P)	25	50.00	5.8X		
RLO	94.30	327 eP	25	47.20	-0.4		
GBO	94.63	326 e(P)	25	50.70	1.5		
TUL	94.84	327 eP+	25	50.00	-0.1		
	1.0s	49.60nm			5.9mb		
Z	20s	61.30um			7.1Msz		
GLD	94.92	335 e(P)	25	53.00	2.3		
	2.0s	145.00nm			6.1mb		
Z	20s	112.00um			7.3Msz		
GOL	95.01	335 e(P)	25	52.00	0.8		
	2.0s	63.60nm			5.7mb		
ATB	95.46	270 eP	25	55.50	2.3		
BHO	95.75	325 eP	25	55.90	1.6		
	1.6s	83.70nm			5.9mb		
CAR	97.42	290 eP	26	07.00	4.7X		
Z	20s	9.04um			6.3Msz		
N	20s	11.90um					
E	20s	6.56um					
		ePP	29	56.00			
KNA	97.49	104 eP	26	03.00	0.8		
EUR	98.09	343 iP	26	07.00	1.8		
FHC	98.26	349 e(P)	26	01.20	-4.5X		
WDC	98.27	348 eP	26	01.00	-4.6X		
		ePKKP	43	07.00			
MIN	98.35	348 e(P)	26	01.00	-5.2X		
ALQ	99.70	334 eP	26	11.50	-1.0		
	2.0s	44.10nm			5.7mb		
Z	20s	47.50um			7.0Msz		
PRN	99.86	342 eP	26	12.00	-1.1		
BAO	100.06	258 Pdiff	26	16.00	1.8		
JAS	100.48	346 ePdiff	26	11.00	-4.5X		
		ePKKP	43	00.00			
ATX	100.53	326 ePdiff	26	30.00	14.1X		
BKS	100.86	347 e(Pdif	26	21.00	3.8X		
Z	20s	45.00um			7.0Msz		
N	20s	38.00um					
E	20s	14.00um					
		eSKS	37	07.00			
		eSSS	46	48.00			
RDJ	101.11	250 ePdiff	26	20.40	1.8		
JCT	101.21	327 ePdiff	26	25.20	6.3X		
Z	20s	46.10um			7.0Msz		
NOP	101.34	342 e(Pdif	26	23.50	4.0X		
GLA	103.94	340 e(Pdif	26	34.00	2.9X		
WB2	104.25	104 ePdiff	26	33.70	1.1		
		e	29	38.70			
PMG	107.45	88 ePKP	31	10.00	14.4X		
RAB	107.92	80 e(Pdif	26	48.00	-1.1		
RAB	107.92	80 ePKP	31	05.20	8.6X		
CTA	113.27	97 ePKP	31	08.00	1.5		
		i	34	52.00			
		i	37	53.00			
		i	41	26.00			
CTAO	113.27	97 ePKP	31	07.00	0.5		
	1.0s	20.00nm					
ZOBO	115.73	270 ePKP	31	11.50	-0.6		
		e	31	16.00			
		e	31	42.00			
STK	116.45	110 ePKP	31	12.00	-0.3		
ARE	118.42	272 ePKP	31	18.00	1.2		
CAN	123.51	110 ePKP	31	26.70	0.9		
WAM	123.84	111 ePKP	31	27.30	1.0		
MDZ	125.38	254 e(PKP)	31	30.40	0.9		

FCH	126.66	255	iPKPd	31	34.20	1.9
PEL	126.86	255	iPKPc	31	34.40	2.0
ROCH	127.02	255	iPKPd	31	34.50	1.6
CHCH	127.21	254	iPKP	31	36.00	3.0X
KOU	127.30	B6	iPKPc	31	34.40	1.0
LNV	127.78	255	iPKP	31	34.10	0.2
DRV	129.27	149	ePKP	31	37.00	1.2
NOU	129.95	86	iPKPc	31	42.90	4.5X
SPA	130.15	180	ePKPd	31	37.00	-0.6
	1.0s	35.00nm				
	Z 20s	39.70um			7.1Msz	
		e		44	53.80	
SBA	136.22	165	ePKP	31	45.50	-3.3X
AFI	140.34	58	e(PKP)	32	04.00	5.8X
		e		58	16.00	
		e		03	44.00	
KRP	144.07	102	PKP	32	02.40	-1.6
		i		32	04.60	
		e		32	27.50	
TCW	144.09	107	PKP	32	01.80	-2.1
WEL	144.46	107	PKP	31	58.00	-6.5X
	Z 22s	35.60um			7.1Msz	
	N 22s	13.30um				
	E 21s	21.50um				
		e		32	25.00	
GNZ	146.15	102	ePKP	32	08.70	1.2
PMO	153.28	22	ePKP	32	25.00	6.1X
	1.4s	105.00nm				
TVO	155.45	27	ePKP	32	28.00	6.1X
	1.4s	195.00nm				
	S.D. = 1.2 on 406 of 463 obs.					

& NOV 16, 1983 16h 13m 00.07s
19.430 N 155.454 W
DEPTH = 12.0km (geophysicist)
6.4mb (101 obs.) 6.7Msz (41 obs.)
HAWAII (613)
<HVO-P>. Six people injured and consideroble domoge (VIII) in ports of Kopopolo, Hawaii Volconoes Notionol Pork, Volcano, Kou ond Puno districts ond Hilo. Londslides ond rockfolls occurred, telephone ond electrical service disrupted ond woter moins broken in severol oreos of the island. Totol domoge estimoted ot 6 to 6.5 million dollors. Also felt on Moui, Oohu ond Kouoi.

AIN	0.06	186	iPc	13	02.56	-0.2
MLH	0.09	43	iPc	13	02.90	-0.3
MLX	0.11	74	iPd	13	03.38	0.1
DES	0.11	146	iPc	13	03.03	-0.2
CPK	0.12	106	iPd	13	03.40	0.0
MWH	0.15	293	iPd	13	03.90	0.0
NPH	0.16	95	iPd	13	03.78	-0.3
OUT	0.17	104	iPd	13	03.92	-0.2
RIM	0.17	101	iPd	13	04.00	-0.2
KNH	0.18	121	iPd	13	04.26	-0.1
AHA	0.19	108	iPd	13	04.30	-0.2
HLP	0.19	134	iPc	13	04.48	0.0
ESR	0.20	95	iPd	13	04.46	-0.3
PUH	0.23	103	iPd	13	04.73	-0.5
KHU	0.24	221	iPc	13	04.83	-0.6
PWH	0.26	124	iPd	13	05.52	-0.2
PPL	0.27	182	iPc	13	05.52	-0.4
MKA	0.28	103	iPd	13	05.67	-0.5
KAE	0.33	115	iPd	13	06.68	-0.4
HPU	0.35	359	iPc	13	07.19	-0.4
HPO	0.35	196	P	13	04.60	-2.8
MVH	0.38	79	iPd	13	07.63	-0.3
WHA	0.39	104	iPd	13	07.47	-0.8
KKH	0.57	294	P	13	10.70	-0.8
HON	3.05	309	eP	13	44.00	-4.9
OPA	3.29	314	eP	13	44.30	-8.1
		i		13	49.80	
BKS	34.21	50	eP	19	49.20	1.5
	1.2s	290.00nm			6.1mb	
		ePcP		22	30.20	
		eS		25	19.00	
		e		27	00.00	
FHC	34.28	45	eP	19	52.80	4.6
SAO	34.38	53	eP	19	49.40	0.2
		PcP		22	30.00	
MHC	34.45	52	eP	19	50.90	1.1
		ePcP		22	31.00	
ARN	34.53	52	eP	19	51.40	0.9
SLD	34.66	52	eP	19	53.50	1.9
RMT	34.76	47	eP	19	54.00	1.7
PRI	34.76	54	ePd	19	53.80	1.2
		ePcP		22	31.00	
SCCM	34.77	56	eP	19	53.70	1.1
PHAM	34.87	55	eP	19	55.10	1.8
PMO	35.02	167	iP	19	56.00	1.4
	1.6s	1900.00nm			6.7mb	
NKI	35.03	346	eP	19	54.90	0.5
TPT	35.06	167	iP	19	56.30	1.3
	1.6s	1900.00nm			6.7mb	
WDC	35.15	46	eP	19	57.00	1.4
		e		20	25.00	
		ePcP		22	32.00	
VAH	35.30	167	iP	19	58.20	1.1
	1.6s	1330.00nm			6.6mb	
RUV	35.31	166	iP	19	58.30	1.2
	1.6s	1330.00nm			6.6mb	
JAS	35.56	51	iPd	20	00.50	1.3
		i		20	28.40	
		ePcP		22	33.20	
MIN	35.68	47	eP	20	01.50	1.1
LGBM	35.73	45	eP	20	04.00	3.1
FRI	35.77	53	ePd	20	01.80	0.9
SDN	36.05	355	eP	20	04.40	1.3
PAS	36.15	58	iPd	20	06.00	1.8
	1.2s	300.00nm			6.0mb	
		iPP		21	30.00	
		iPcP		22	37.00	
MWC	36.26	58	eP	20	06.00	0.6
ISA	36.31	56	eP	20	06.50	0.9
WKTM	36.37	56	eP	20	06.50	0.3
ADK	36.41	338	e(P)	20	05.30	-0.9
		e		20	08.80	
SBB	36.56	58	iPd	20	08.30	0.5
COR	36.65	40	iPd	20	14.00	5.7
RVR	36.75	59	eP	20	09.00	-0.3
AFI	36.82	207	eP	20	12.00	2.0
		e(PPP)		21	36.00	
		e(S)		25	40.00	
CWC	36.84	55	eP	20	10.00	-0.2
		e		20	12.00	
		e		29	17.00	
VPEM	36.90	56	eP	20	11.60	0.9
PLM	37.03	60	eP	20	12.00	0.2
		e		20	14.00	
BAR	37.05	61	eP	20	12.00	0.2
AFR	37.16	171	iP	20	14.70	2.0
	1.6s	950.00nm			6.3mb	
PPN	37.20	170	iP	20	15.00	1.9
PPT	37.22	171	iP	20	15.30	2.0
	1.6s	950.00nm			6.3mb	
PAE	37.31	171	iP	20	15.90	1.9
	1.6s	930.00nm			6.3mb	
TVO	37.48	170	iP	20	17.40	1.9
	1.6s	2080.00nm			6.7mb	
GSC	37.52	57	eP	20	16.00	0.1
BFW	37.76	37	eP	20	20.80	3.1
PHC	38.28	29	iPd	20	26.70	4.8
	1.7s	2090.00nm			6.6mb	
GMW	38.61	36	eP	20	26.70	2.0
GLA	38.64	61	eP	20	26.70	1.4
BMN	38.79	49	ePd	20	27.70	1.2
PGC	38.90	34	eP	20	30.40	3.3
SIT	40.44	17	eP	20	41.10	1.4
	1.2s	439.39nm			6.0mb	
RAR	40.61	186	iP	20	44.00	2.5
SMY	40.77	332	eP	20	44.30	1.8
	Z 20s	95.00um			6.6Msz	
BKU	41.21	53	eP	20	47.50	1.0
PNT	41.35	35	eP	20	49.00	1.7
	1.1s	686.00nm			6.3mb	
SVW	41.64	360	iPc	20	50.90	1.4
DUG	41.90	51	ePd	20	53.80	1.7
MSU	41.92	54	iPc	20	54.00	1.5
GCA	42.01	56	eP	20	55.10	2.0
PCA	42.05	11	eP	20	54.80	1.7
NEW	42.21	38	eP	20	55.00	0.5
PMR	42.36	4	eP	20	55.80	0.4
	1.5s	167.00nm			5.5mb	
	Z 20s	120.00um			6.8Msz	
RMU	42.52	56	eP	20	58.50	1.2
HPI	42.83	46	iP	21	01.90	2.0
TBI	42.92	172	iP	21	04.80	4.4
	1.6s	1710.00nm			6.5mb	
CLX	43.36	39	iPc	21	04.80	0.8
LDM	43.36	39	iPc	21	04.70	0.8
TTA	43.47	360	iPc	21	04.60	0.1
TMI	43.50	47	eP	21	07.40	2.1
BUT	44.03	43	eP	21	11.40	1.9
LRM	44.03	43	eP	21	10.20	0.6
IMW	44.36	46	eP	21	13.20	0.9
BDW	44.97	48	eP	21	17.00	-0.2
	1.3s	392.00nm			6.2mb	
SVA	45.26	216	ePc	21	22.50	3.1
		epP		21	29.00	22kmX
NDF	45.54	217	eP	21	27.00	5.4
ANM	45.60	354	eP	21	22.70	1.2
COL	45.73	5	eP	21	22.00	-0.6
	Z 18s	95.50um			6.8Msz	
		eS		28	10.00	
FBA	45.73	5	eP	21	23.10	0.5
ALQ	45.80	60	ePc	21	24.00	0.2
	Z 18s	61.90um			6.6Msz	
IMA	46.63	1	iPc	21	29.30	-0.5
SES	46.72	38	eP	21	31.00	0.3
	1.6s	179.00nm			5.9mb	
EDM	46.75	34	iPd	21	30.50	-0.3
	1.5s	310.00nm			6.1mb	
RKT	46.78	154	iP	21	33.40	2.1
	1.6s	1710.00nm			6.9mb	
GOL	47.34	54	eP	21	36.00	-0.1
	1.2s	2830.00nm			7.2mb	
	Z 20s	62.50um			6.6Msz	
GLD	47.47	54	eP	21	39.10	2.2
	1.5s	1970.00nm			7.0mb	
	Z 20s	95.00um			6.8Msz	
PET	48.68	325	iPc	21	47.50	1.7
	2.0s	1600.00nm			6.7mb	
	Z 18s	50.00um			6.5Msz	
	N 17s	27.50um				
	E 17s	53.00um				
		eSP		28	53.00	
		eScS		31	38.00	
SKR	49.20	321	iPc	21	50.80	0.9
	0.8s	480.00nm			6.6mb	
	Z 17s	40.50um			6.5MszX	
	N 17s	21.30um				
	E 16s	41.80um				
		ePP		23	44.40	
		ePPP		24	31.00	
		iS		29	00.00	
RSSD	49.21	48	eP	21	49.30	-1.1
	1.5s	735.00nm			6.5mb	
ILT	50.64	349	iPc	22	00.50	-0.2
	1.6s	1100.00nm			6.6mb	
	Z 18s	95.00um			6.9Msz	
	N 18s	63.00um				
		iPP		23	56.00	
		ePPP		24	48.00	
		iS		29	12.00	
		eScS		31	48.00	
INK	50.76	10	eP	22	01.00	-0.6
	0.6s	203.00nm			6.2mb	
JCT	51.20	66	eP	22	04.00	-1.6
	1.0s	180.00nm			6.0mb	
	Z 20s	92.20um			6.8Msz	
PVC	51.29	226	iPc	22	12.00	5.7
RSNT	51.36	23	eP	22	05.30	-1.0
	1.5s	1510.00nm			6.7mb	
YKA	51.37	23	eP	22	06.70	0.4
YKC	51.41	23	ePd	22	06.20	-0.4
	0.3s	116.00nm			6.3mb	
ACO	51.87	58	eP	22	10.80	0.2
BRW	51.88	359	e(P)	22	10.50	0.4
SVO	52.42	241	eP	22	18.00	3.0
RRO	52.45	60	eP	22	18.40	3.4
	1.8s	1390.00nm			6.6mb	
HNR	52.47	241	ePc	22	18.00	2.7
	1.0s	220.00nm			6.0mb	
		iS		29	44.00	
ATO	52.65	59	eP	22	16.80	0.3
IIC	52.72	80	iP	22	18.00	0.4
III	52.77	81	iP	22	19.50	1.7
TAC	52.85	80	iP	22	17.00	-1.4
		iS		29	55.00	
IIM	52.87	80	iP	22	19.60	1.0
ATX	52.88	66	iP	22	18.00	-0.2
		S		29	50.00	
KUR	53.11	312	iPc	22	20.00	0.3
	1.5s	3820.00nm			7.1mb	
	Z 16s	82.50um			6.9MszX	

16d 16h

	N	16s	54.50um				ELF	65.53	51	P	23	45.70	0.0	CAN	75.74	224	iPc	24	49.70	2.1
	E	16s	53.50um				LDN	65.64	51	P	23	46.15	-0.2	ANP	75.89	292	iP+	24	51.00	2.2
			ePcP	23	30.00		PRM	65.65	61	eP	23	45.70	-0.9				iS	34	40.00	
			ePP	24	24.00		GFM	65.85	58	eP	23	47.60	-0.5	GDH	76.14	21	iPd	24	50.40	1.2
			iS	29	54.00		YAK	65.92	330	iPc	23	45.80	-1.9		1.0s	84.00nm			5.8mb	
			eSS	33	24.00			1.5s	740.00nm			6.6mb					i	24	55.00	
IIP	53.11	80	iP	22	21.70	1.2				iPP	26	13.70					iS	34	35.00	
OCO	53.17	60	eP	22	20.80	0.5				iPPP	27	41.50		WAM	76.34	223	eP	24	53.30	2.5
FFC	53.47	35	eP	22	20.00	-2.2				iS	32	33.30		NJ2	76.42	299	iPc	24	52.00	0.5
	1.1s	82.00nm			5.6mb					iPS	32	52.70					pP	25	15.00	87kmX
PCO	53.60	58	eP	22	22.70	-0.8				iSS	36	44.70					PP	27	50.00	
IIT	53.74	80	iP	22	26.20	1.2	MDJ	66.02	311	Pc	23	48.50	-0.2				PS	35	12.00	
SIO	54.12	60	eP	22	26.90	-0.4				S	32	40.00		CNP	76.52	279	iPc	24	56.00	3.7
TUL	54.54	59	iPd-	22	30.70	0.3	WEL	66.42	204	P	23	55.00	3.8	BJI	76.56	308	iPc	24	52.00	-0.1
	1.7s	1600.00nm			6.8mb					S	32	44.00			1.5s	437.00nm			6.3mb	
	Z 21s	49.50um			6.6Msz					SKS	33	31.00					esP	25	06.50	
HKT	54.66	67	iP	22	31.50	0.3				e	38	00.00					PP	27	45.00	
GBO	55.04	59	eP	22	32.90	-1.2	NAV	66.51	57	eP	23	51.20	-0.9				eS	34	38.00	
RLO	55.17	59	eP	22	34.10	-0.9	JSC	66.53	60	eP	23	51.90	-0.3				PS	35	19.00	
BHO	55.31	61	iPd	22	35.00	-1.0	BLA	66.81	57	eP-	23	53.70	-0.4	PLP	76.63	277	iPd	24	51.80	-1.1
MGD	55.54	331	iPc	22	37.40	0.1		1.7s	2540.00nm			7.1mb			1.2s	558.00nm			6.5mb	
	1.9s	1470.00nm			6.7mb		Z	18s	46.90um			6.7Msz		TIA	76.77	304	iPc	24	53.40	0.0
			iPPP	25	54.00					iS	32	46.00					S	34	43.00	
			iS	30	27.40		TIK	67.19	341	iPc	23	55.00	-0.8	LGP	77.20	280	ePd	24	58.00	1.9
			iSS	34	03.00			1.9s	1250.00nm			6.8mb			1.2s	1260.00nm			6.9mb	
VHO	55.55	82	iP	22	40.00	1.8	Z	18s	34.00um			6.6Msz		DAV	77.31	273	iPc+	24	57.50	0.8
NOU	55.74	224	iPc	22	39.00	-0.1	N	19s	10.00um								eS	34	52.00	
KOU	55.99	227	iPc	22	42.10	1.2	E	19s	35.00um					CGP	77.71	275	ePc	25	01.00	2.1
SEY	56.00	334	iPc	22	40.10	-0.4				ePcP	24	18.00			0.6s	87.00nm			6.0mb	
	1.7s	1000.00nm			6.6mb					ePP	26	28.00		AAI	78.40	262	eP	25	02.90	0.2
			ePP	24	44.60					eS	32	54.00			0.8s	177.00nm			6.2mb	
			iS	30	33.60					ePPS	33	24.00		PSO	78.41	93	iP	25	04.50	1.2
RAB	56.59	251	iPc+	22	44.60	-0.9				eScS	33	55.00		KHE	78.64	355	iPc	25	04.00	1.1
YSS	56.91	314	iPc	22	48.00	0.7	MVI	67.20	291	eP	23	59.00	2.5		1.7s	1280.00nm			6.7mb	
	1.5s	500.00nm			6.3mb					eS	32	56.00			Z 18s	35.00um			6.7Msz	
	Z 17s	60.00um			6.8MszX		DHN	67.85	51	eP	23	58.00	-2.4		N 18s	27.00um				
	N 17s	17.50um					CVL	68.25	56	eP	24	02.50	-0.5		E 18s	25.00um				
	E 17s	29.60um					CN2	69.06	310	iPc	24	07.00	-0.9				iPP	28	05.00	
			iS	30	48.00					eS	33	10.00					iS	35	04.00	
			eSSS	36	40.00		INY	69.15	51	P	24	09.00	0.5				iScS	35	25.00	
MIY	56.93	305	eP	22	47.00	-0.5	CTA	69.31	239	iPc	24	10.00	0.2				ePPS	35	58.00	
			S	30	46.00			1.8s	445.00nm			6.3mb		STK	78.97	231	eP	25	06.00	0.5
GUA	57.25	274	eP+	22	50.00	-0.2				iS	33	19.00		WB2	79.12	244	eP	25	06.90	0.3
	0.8s	263.00nm			6.3mb					i(SS)	37	31.00		WRA	79.13	244	Pc	25	12.30	5.7
			pP	22	56.80	22kmX	CTAO	69.31	239	eP	24	10.80	1.0		1.0s	29.80nm			5.3mb	X
			eS	30	51.50			1.4s	134.00nm			5.9mb		BAG	79.16	284	iP+	25	06.00	-1.1
GUMO	57.28	274	eP+	22	51.00	0.6	OTT	69.32	48	eP	24	10.00	0.6		1.6s	473.00nm			6.3mb	
	1.5s	1590.00nm			6.8mb			2.0s	1200.00nm			6.7mb					iS	35	10.00	
			pP	22	57.20	20kmX	PTN	69.94	49	eP	24	12.90	-0.4	MAN	79.22	282	eP	25	09.50	2.4
CBI	57.31	290	P	22	51.50	1.0	RSNY	70.27	49	eP	24	14.30	-1.0		1.0s	333.00nm			6.3mb	
RSON	57.39	42	eP	22	48.30	-2.4		1.5s	869.00nm			6.7mb		QCP	79.23	282	eP	25	14.00	6.8
	1.5s	913.00nm			6.6mb		PRIN	70.77	53	eP	24	18.20	-0.2	TOO	79.35	224	eP	25	09.00	1.5
OLY	58.07	60	eP	22	54.20	-1.4	MNT	70.77	48	eP	24	17.00	-1.3	HHC	79.74	310	iPc	25	10.00	0.3
POW	58.28	59	eP	22	54.50	-2.6		1.5s	780.00nm			6.6mb					S	35	05.00	
TSK	58.41	301	eP	22	57.90	-0.1	ALE	71.27	8	eP	24	19.90	-0.8				SKS	35	15.00	
KYS	58.42	300	eP	23	03.90	5.8		0.7s	205.00nm			6.4mb					sS	35	40.00	
FVM	58.84	57	iP	23	00.20	-0.8	TUP	71.35	322	ePc	24	21.60	0.0	MNI	79.81	268	eP	25	12.50	2.0
	2.0s	2230.00nm			6.9mb			2.0s	810.00nm			6.5mb		TIY	79.99	306	iPc	25	11.00	-0.1
SRY	59.11	300	eP	23	02.80	-0.2	FRB	71.41	28	eP	24	22.00	0.3				pP	25	33.00	82kmX
OYM	59.15	300	eP	23	04.60	1.3	MSZ	72.02	207	eP	24	27.00	1.4				sP	25	41.50	
DDR	59.16	301	eP	23	03.90	0.5				(pP)	24	31.90	16kmX				PP	28	16.00	
NII	59.21	303	eP	23	06.00	2.5	BNH	72.57	48	eP	24	29.20	0.1				S	35	13.00	
LST	59.44	59	eP	23	05.00	-0.2	DL2	72.69	306	iPc	24	29.60	-0.3				sS	35	48.00	
MBC	59.76	9	ePc	23	05.40	-1.4				pP	29	51.00		BOG	80.37	88	iP	25	15.50	1.6
	1.3s	1300.00nm			6.9mb					S	33	55.00					iS	35	22.00	
ELC	59.81	58	eP	23	07.20	-0.5				sS	34	32.00		BOCO	80.40	89	eP	25	16.60	2.5
MAT	59.93	302	iPc+	23	08.90	0.3	RIV	73.42	224	eP	24	36.00	1.9		1.3s	449.00nm			6.3mb	
	0.3s	403.00nm			7.0mb		SCH	73.60	37	eP	24	35.00	0.1	FUO	80.41	88	iP	25	16.00	1.9
	Z 20s	19.00um			6.2Msz			1.8s	834.00nm			6.5mb		WHN	80.54	299	iPc	25	14.40	0.4
			eS	31	22.00		BOD	73.96	326	iPc	24	37.40	0.5				pP	25	36.00	81kmX
LHC	59.97	45	eP	23	06.00	-2.6		1.4s	1000.00nm			6.7mb					iS	35	23.00	
	1.8s	2500.00nm			7.0mb		MIM	73.99	47	eP	24	38.00	0.7				PS	36	20.00	
PWLA	60.88	60	eP	23	14.00	-1.1	CBM	74.28	45	eP	24	41.00	2.0	DAG	80.58	9	iPc	25	13.00	-0.4
ALOT	60.91	246	eP	23	19.00	3.5	SSE	74.72	298	iP+	24	41.50	-0.3		0.9s	378.00nm			6.4mb	
CRZ	61.55	210	P	23	21.80	2.4		6.0s	3.90nm			3.6mb	X				iS	35	16.00	
OSK	62.14	300	P+	23	25.00	1.3		Z 24s	29.60um			6.5MszX		NRI	80.76	341	eP	25	23.10	8.6
			S	31	55.00			N 18s	6.80um						9.0s	******nm			7.0mb	X
LMG	62.27	248	eP	23	29.00	4.1		E 22s	22.00um						Z 18s	30.00um			6.7Msz	
LAT	62.29	251	eP	23	28.00	3.2				i	24	59.00			N 18s	19.50um				
KRP	63.24	205	P	23	29.00	-1.6				i	25	06.00			E 18s	6.70um				
			(PP)	25	37.00					pP	25	14.00	130kmX				ePP	28	15.00	
PMG	63.38	248	eP+	23	31.00	-0.9				sP	25	32.00					ePPP	30	13.00	
	Z 19s	41.00um			6.6Msz					PP	27	30.50					iS	35	22.00	
SSS	63.44	84	eP	23	32.80	0.3				S	34	02.00					ePS	36	12.00	
TKL	64.31	59	e(P)	23	36.30	-1.6	ISO	75.10	241	eP	24	45.00	0.8	IRK	80.92	322	iPc	25	16.50	0.9
SHK	64.59	300	eP	23	41.50	1.7	YOU	75.54	225	eP	24	49.60	3.2		2.0s	790.00nm			6.4mb	
DLA	65.37	51	P	23	45.30	0.7	CMS	75.71	229	eP	24	49.00	1.6				ePP	28	18.00	

Sta	Comp	Delta / Period	Az / Amplitude	Phase	Time	Res	Mag / Note
				ePPP	30 16.00		
				iS	35 24.00		
				iSKS	35 28.00		
				ePS	36 10.00		
				eSS	40 44.00		
BTO		80.93	310	iPc	25 17.00	0.9	
				PP	28 24.50		
				eS	35 19.50		
BFD		81.09	226	eP	25 18.00	1.3	
ASPA		81.09	241	eP	25 17.00	-0.1	
LGN		81.26	82	i(P)	25 19.00	1.0	
UAV		81.85	84	eP	25 24.00	2.6	
ZAK		82.18	321	eP	25 13.40	-8.8	
		2.0s	770.00nm				6.5mb
				ePP	28 27.00		
				iS	35 40.00		
				eSS	41 02.00		
SDV		82.25	83	iPc	25 25.10	1.6	
		0.7s	57.10nm				5.8mb
ADE		82.61	229	iPc	25 30.50	5.8	
		1.0s	124.00nm				6.0mb
TOV		82.75	82	eP	25 24.00	-1.9	
HKC		83.16	291	iP	25 31.50	3.7	
				iS	36 16.00		
LM2		83.29	105	iP	25 30.50	2.0	
NNA		83.45	105	iP	25 29.70	0.3	
		2.0s	1480.00nm				6.8mb
SJG		83.51	73	iP	25 28.70	-1.0	
		1.0s	170.00nm				6.2mb
	Z	20s	18.40um				6.5Msz
GZH		83.64	292	Pc	25 31.50	1.2	
				PP	28 42.50		
				eS	35 46.50		
XAN		83.83	304	Pc	25 31.00	-0.2	
STJ		84.11	42	eP	25 32.50	0.3	
CAR		85.19	81	eP	25 39.40	1.1	
		0.6s	37.30nm				5.8mb
	Z	20s	21.10um				6.5Msz
	N	20s	16.00um				
	E	20s	25.00um				
KKM		86.45	275	ePd	25 48.00	3.4	
UER		87.00	324	iPc	25 47.50	1.1	
		1.9s	800.00nm				6.6mb
				iS	36 16.60		
LZH		87.02	307	iPc+	25 48.00	0.9	
		5.0s	5870.00nm				7.1mb X
	N	13s	19.50um				
				pP	25 56.00		25kmX
				ePP	29 03.00		
				S	36 16.00		
				sS	36 36.00		
				SS	41 53.00		
MKS		87.09	263	iPc	25 49.50	2.0	
WBN		88.17	242	eP	25 56.00	3.5	
PAG		88.22	74	eP	25 54.00	1.0	
GYA		88.25	297	Pc	25 54.00	0.9	
				sP	26 20.00		
				S	36 24.00		
				PS	37 08.00		
SEG		88.26	73	eP	25 51.00	-2.1	
MGG		88.59	74	eP	25 55.00	0.3	
GTA		88.67	311	iPc	25 55.70	0.8	
				PP	29 26.40		
				iS	36 28.00		
				PS	37 47.00		
CD2		89.02	302	iPc	25 57.00	0.4	
				S	36 28.50		
AKU		89.22	16	iP	26 03.50	6.7	
		1.4s	270.00nm				6.3mb
REY		89.31	19	eP	26 03.10	5.8	
ARE		89.88	107	eP	26 03.00	1.9	
ELT		90.25	328	iPc	26 02.80	1.0	
		2.0s	830.00nm				6.6mb
				iSKS	36 34.00		
TRN		90.28	79	eP	26 02.00	-0.6	
NVS		90.74	330	iPc	26 05.50	1.5	
		1.6s	690.00nm				6.7mb
KEV		91.04	359	eP	26 06.00	0.8	
		1.3s	188.00nm				6.3mb
				i	26 10.00		
				ePP	29 44.00		
				eS	36 40.00		
				eSS	43 08.00		
TRO		91.09	2	eP	26 06.00	0.6	
KMI		92.03	297	Pc+	26 12.00	1.1	
	E	16s	11.80um				
				pP	26 38.00		97kmX
				PP	29 49.00		
				eSKS	36 33.00		
				iS	36 48.00		
				sS	37 25.00		
ZOBO		92.86	106	eP	26 16.00	0.9	
		2.2s	436.00nm				6.5mb
KIR		92.93	2	iP	26 18.50	4.5	
LPB		92.97	106	Pd-	26 17.00	1.5	
		2.0s	706.00nm				6.7mb
	Z	18s	25.80um				6.7Msz
				PP	30 00.00		
				SKS	36 55.00		
				SS	43 34.00		
APA		93.03	357	ePc	26 14.80	0.4	
		1.5s	190.00nm				6.3mb
	Z	21s	23.00um				6.6Msz
				iPP	29 57.00		
				iSKS	36 52.00		
				iS	37 23.00		
				iPS	38 35.00		
ANT		93.29	114	eP	26 19.00	2.7	
				iS	37 02.00		
				e	55 26.00		
SOD		93.44	359	iP	26 16.30	0.0	
				i	26 21.60		
				iPP	29 51.40		
TRT		94.31	263	ePc	26 24.20	3.0	
WMQ		94.61	320	P	26 23.00	0.7	
				PP	30 13.00		
SEM		94.94	328	ePc	26 22.80	-0.7	
		5.0s	1710.00nm				6.7mb X
				ePP	30 09.80		
				eSKS	36 58.00		
TLL		95.11	120	iPc	26 25.70	0.8	
ROCH		95.87	123	eP	26 30.00	1.7	
TACH		96.15	123	eP	26 31.00	1.7	
PEL		96.19	123	iPc	26 32.00	2.5	
NAU		96.40	248	eP	26 34.00	3.4	
PCH		96.48	123	eP	26 33.00	2.1	
FCH		96.56	123	iPc	26 34.60	3.0	
KJF		96.61	359	iP	26 32.00	1.1	
		1.1s	91.20nm				6.2mb
	Z	20s	20.00um				6.6Msz
				i	26 36.00		
				iPP	30 27.00		
				eSKS	37 12.00		
				eS	37 42.00		
				ePS	39 16.00		
				eSS	44 28.00		
YJA		97.08	111	ePc	26 36.00	1.7	
PCT		97.14	288	eP	26 36.00	1.9	
				e	51 33.00		
MDZ		97.56	122	e(P)	26 37.60	1.8	
CHG		97.73	293	iPd	26 40.00	3.2	
		1.0s	16.00nm				5.6mb
				eS	37 04.00		
SLA		97.87	113	iPc	26 39.00	1.6	
NST		97.90	290	eP	26 40.60	3.1	
SUF		98.12	359	iP	26 38.70	1.0	
		0.9s	10.90nm				5.5mb
DRV		98.14	201	eP	26 35.00	-2.5	
SVE		98.24	341	ePc	26 38.50	0.1	
		1.9s	180.00nm				6.4mb
				ePP	30 33.00		
				iSKS	37 18.00		
BDT		98.29	292	eP	26 39.80	0.6	
		1.8s	201.00nm				6.5mb
LEM		98.75	266	e(P)c	26 45.50	3.9	
				eS	38 26.00		
BER		98.95	10	eP	26 46.00	4.5	
NB2		99.10	7	P	26 37.40	-4.9	
		1.0s	12.90nm				5.5mb
ARU		99.20	342	ePc	26 42.50	-0.3	
		1.8s	340.00nm				6.7mb
	Z	21s	29.00um				6.8Msz
	N	23s	17.00um				
	E	17s	14.00um				
				ePP	30 51.00		
				ePPP	32 59.00		
				iSKS	37 23.50		
				eS	38 12.50		
LSA		99.38	306	eP	26 46.80	2.1	
NNT		99.44	287	eP	26 57.80	13.3	
HFS		100.23	5	ePdiff	26 51.50	4.3	
		1.7s	144.00nm				6.2mb
	Z	18s	21.40um				6.7Msz
KON		100.26	8	e(Pdif	26 48.00	0.7	
	Z	22s	23.80um				6.7Msz
NUR		100.35	360	ePdiff	26 48.00	0.4	
	Z	20s	26.40um				6.7Msz
				iPP	30 51.20		
				eSKS	37 28.00		
				eS	38 22.00		
				ePS	39 51.00		
SHL		100.75	302	iPdiff	26 53.70	3.1	
				iS	37 29.40		
UPP		100.80	4	iPdiff	26 54.40	4.8	
		1.4s	400.00nm				6.8mb
				iPP	31 02.40		
				iS	38 25.00		
PRZ		100.91	323	ePdiff	26 52.00	1.1	
		2.0s	130.00nm				6.2mb
	N	22s	22.10um				
				ePP	30 56.00		
				ePPP	33 03.00		
				eSKS	37 33.00		
				eSP	39 52.00		
PUL		100.95	357	ePdiff	26 53.00	2.7	
		1.8s	240.00nm				6.5mb
				iPP	30 58.00		
				iSKS	37 32.00		
				iS	38 26.00		
				iSP	39 58.00		
				iSS	45 28.00		
TLG		100.99	324	iPdiff	26 52.00	0.9	
		2.1s	40.00nm				5.6mb
				iPP	30 57.00		
				iSKS	37 34.00		
				iSP	39 58.00		
AAA		101.23	324	iPdiff	26 54.00	1.9	
		9.0s	2.00nm				3.7mb X
				iPP	31 04.00		
				iPPP	33 19.00		
				iSKS	37 35.00		
				iPS	40 07.00		
EKA		101.89	16	Pdiff	27 00.00	5.3	
		0.8s	3.20nm				5.0mb X
VAL		102.72	21	ePdiff	27 03.00	4.6	
				PS	40 13.00		
FRU		102.80	325	ePdiff	27 00.00	0.9	
		2.0s	120.00nm				6.3mb
	N	18s	17.50um				
	E	20s	22.00um				
				ePP	31 16.00		
				ePPP	33 24.00		
				iSKS	37 42.00		
				iPS	40 19.00		
NRN		102.96	323	ePdiff	27 02.60	2.4	
				eSKS	38 31.00		
MUD		103.30	9	iPdiff	27 06.40	5.5	
		1.4s	65.00nm				6.2mb
KSH		104.25	321	Pdiff	27 08.00	2.2	
				PP	31 23.00		
MOS		104.31	352	ePdiff	27 06.00	0.6	
	N	21s	33.20um				
	E	17s	21.60um				
				ePP	31 24.00		
				ePPP	33 40.00		
				eSKS	37 49.00		
				eS	38 55.00		
COP		104.48	7	ePdiff	27 07.00	0.9	
				iS	37 52.00		
KKN		104.80	307	ePdiff	27 10.40	1.8	
		1.2s	54.00nm				6.3mb
PKI		104.81	307	ePdiff	27 10.30	1.5	
		1.2s	47.00nm				6.3mb
OBN		105.00	353	ePdiff	27 10.00	1.6	
		2.0s	140.00nm				6.5mb
	Z	20s	28.00um				6.8Msz
	N	20s	23.00um				
	E	18s	10.00um				
				iPP	31 32.00		
				iSKS	37 54.00		
				eSKS	38 32.00		
				iS	38 58.00		
				iSP	40 40.00		
				iPPS	41 44.00		
ANR		105.45	324	ePdiff	27 12.50	1.6	
				ePP	31 34.00		
				eSKS	37 55.50		
				eSP	40 40.00		
HAM		106.32	9	ePKP	31 11.00	-14.8	
TAS		106.70	326	ePdiff	27 15.00	-1.4	
		8.0s	900.00nm				6.9mb X

16d 16h

	Z 20s		19.00um		6.6Msz
	N 24s		18.60um		
			ePP	31 44.00	
			ePPP	33 56.00	
			eSKS	37 58.00	
			iSP	40 54.00	
			eSSS	50 44.00	
DBN	106.79	12	ePdiff	27 18.00	1.5
	Z 19s		14.90um		6.6Msz
			e	30 44.00	
			iPP	31 42.00	
			ePPP	34 12.00	
			iSKS	38 11.00	
			iS	39 19.00	
			iSP	41 00.00	
			iSPP	41 56.00	
			eSS	46 58.00	
LPA	106.85	122	ePdiff	27 20.00	2.8
	Z 20s		22.00um		6.7Msz
			iSKS	38 03.20	
GAR	107.80	324	ePdiff	27 23.50	1.9
	2.0s		30.00nm		6.1mb
			iPP	31 54.00	
			iPS	41 14.00	
UCC	107.85	13	ePKP	31 30.00	1.2
			PP	31 47.70	
			SPP	41 05.00	
KHO	108.17	322	ePdiff	27 20.70	-2.6
	Z 18s		21.50um		6.7Msz
	N 18s		12.00um		
	E 18s		9.20um		
			ePP	31 50.80	
			ePPP	34 10.00	
			eSKS	38 08.00	
			ePS	41 20.00	
ENN	108.21	12	ePdiff	27 26.50	3.6
			ePP	30 35.00	
DOU	108.57	13	Pdiff	27 40.30	15.8
WAR	108.57	2	e(Pdif	27 25.00	0.6
CLL	108.84	8	iPdiff	27 29.60	3.9
	1.5s		41.00nm		6.4mb
			eSKS	38 09.00	
			eS	39 35.00	
			PKKP	42 55.90	
			e	46 49.80	
			P'P'	51 11.00	
KUL	108.89	324	ePdiff	27 28.50	2.2
			ePP	31 57.50	
			eSKS	38 11.70	
DSH	108.96	325	ePdiff	27 26.50	-0.2
	9.0s		6300.00nm		7.8mb X
			eSKS	38 08.00	
			ePS	41 21.00	
LPF	109.04	18	ePdiff	27 30.60	4.0
	1.0s		24.00nm		
SAM	109.10	327	ePdiff	27 28.00	0.8
			iPPP	34 16.00	
			iSKS	38 12.20	
			iSP	41 15.10	
MOX	109.31	9	ePdiff	27 32.50	4.7
	1.6s		43.00nm		
	Z 16s		14.10um		6.6MszX
	N 16s		11.80um		
	E 20s		12.10um		
			ePP	31 52.00	
			eSKS	38 15.00	
			eS	39 35.00	
			ePS	41 30.00	
			ePKKP	42 55.00	
			e	46 56.00	
			eSS	47 24.00	
			eP'P'	51 06.00	
BRG	109.39	7	iPdiff	27 33.00	4.9
	1.4s		52.00nm		
	Z 18s		11.00um		6.5Msz
	N 18s		9.50um		
	E 18s		13.00um		
			eSKS	38 12.00	
			eS	39 40.00	
KSP	109.66	6	ePdiff	27 30.00	0.6
			i	27 35.00	
			e	32 08.00	
			e	42 53.00	
GRFO	110.18	9	e(PKP)	31 39.30	6.0
GRF	110.18	9	ePdiff	27 31.90	0.2
	Z 19s		13.30um		6.5Msz
			e	27 36.70	

			e	31 39.10	
			e	32 08.00	
NDI	110.18	312	iPdiff	27 34.00	1.8
	Z 22s		24.10um		6.7Msz
	N 20s		6.38um		
	E 20s		13.50um		
			ePP	30 43.00	
GWF	110.25	12	iPKPd	31 40.00	6.5
PRU	110.33	7	ePdiff	27 34.00	1.7
	1.5s		40.20nm		
	Z 18s		15.30um		6.6Msz
	N 18s		12.80um		
	E 18s		7.40um		
			e	31 05.00	
			e	31 55.00	
			iPP	32 14.50	
			SKS	38 18.00	
			S	39 50.00	
			iPS	41 32.00	
			iSS	47 38.00	
			i	58 35.00	
BUH	110.66	11	ePKP	31 40.20	5.9
KRA	110.70	3	ePdiff	27 36.00	2.0
	1.2s		47.00nm		
	Z 22s		25.80um		6.8Msz
	N 22s		25.60um		
	E 22s		9.00um		
			e	27 40.00	
			e	27 52.70	
			e	32 20.20	
			e	38 18.00	
			i	41 40.00	
			e	47 40.00	
CDF	110.72	12	ePdiff	27 39.90	5.6
GRC	110.83	15	iPKPd	31 41.50	6.9
			i	32 08.90	
HAU	110.92	13	ePKP	31 38.30	3.5
	1.4s		18.80nm		
LOR	111.05	15	ePdiff	27 40.80	5.1
	1.4s		11.70nm		
LOR	111.05	15	ePKP	31 41.80	6.7
	1.4s		35.20nm		
KHC	111.05	8	Pdiff	27 37.60	1.9
	Z 16s		6.10um		6.3MszX
	N 16s		3.90um		
	E 17s		5.60um		
			PP	31 56.90	
			e	39 54.00	
			e	41 42.00	
SSF	111.15	15	ePdiff	27 41.10	5.0
	1.4s		13.30nm		
SSF	111.15	15	ePKP	31 42.00	6.7
	1.4s		27.40nm		
BSF	111.18	13	ePdiff	27 40.20	3.9
BSF	111.18	13	ePKP	31 40.20	4.8
	1.4s		31.30nm		
BAF	111.22	13	ePKP	31 41.00	5.5
LBF	111.34	15	ePdiff	27 41.90	4.9
LBF	111.34	15	ePKP	31 42.30	6.6
	1.4s		20.30nm		
ROF	111.35	13	iPKPc	31 43.20	7.6
SPC	111.59	3	e(Pdif	27 44.30	6.1
			i	32 17.20	
FUR	111.67	10	ePdiff	27 43.30	4.9
	1.3s		55.00nm		
MZF	111.70	16	ePdiff	27 37.80	-0.8
UZH	112.22	2	ePdiff	27 44.00	3.2
	Z 19s		20.00um		6.7Msz
	N 19s		27.00um		
			iPP	32 25.00	
			eSKS	38 15.00	
			iPS	41 55.00	
JOS	112.29	3	ePdiff	27 47.00	5.9
	2.0s		70.00nm		
PTO	112.34	27	ePdiff	27 21.80	-19.7
ZST	112.36	5	ePdiff	27 42.00	0.6
ZST	112.36	5	ePKP	31 44.30	6.8
			e	32 13.60	
KBA	113.04	8	Pdiffd	27 50.30	5.6
KBA	113.04	8	PKPd	31 44.50	5.4
	1.8s		162.00nm		
			e	32 09.70	
			iPP	32 15.40	
			ipPP	32 36.70	
MMK	113.12	12	ePKPd	31 48.20	8.9
TMA	113.25	12	ePKPd	31 46.20	6.7
ORO	113.53	13	ePKP	31 45.00	5.0

			e	32 20.00	
RBL	113.69	8	ePKP	31 46.50	6.2
			e	33 29.00	
KIS	113.75	357	ePKP	31 52.00	11.8
	Z 22s		21.00um		6.7Msz
	E 18s		4.50um		
			iPP	32 32.00	
			iSKS	38 24.00	
			eSP	42 06.00	
			iSS	48 16.00	
CTI	113.79	10	ePKP	31 46.70	6.2
EPF	113.98	19	ePKP	31 45.60	4.7
	1.3s		18.20nm		
SAL	114.03	11	ePKP	31 48.00	7.2
			e	32 34.00	
CJR	114.16	1	ePKP	31 47.00	5.8
CLI	114.29	358	ePKP	31 48.00	6.7
VG1	114.42	12	ePKP	31 49.00	7.4
			e	32 40.00	
TRI	114.44	8	e(Pdif	27 52.00	1.3
			e(pP)	28 38.00	
CEY	114.50	8	ePKP	31 46.00	4.2
GRO	114.58	343	ePdiff	27 54.00	2.6
	8.0s		1500.00nm		
	Z 20s		46.00um		7.1Msz
	N 20s		95.00um		
	E 20s		41.00um		
			iPP	32 39.00	
			iPS	42 16.00	
			iSS	48 32.00	
PYA	114.61	345	ePdiff	27 52.00	0.4
			iPP	32 37.00	
			iPPP	35 04.00	
			iPS	42 15.00	
ASH	114.67	331	ePKP	31 42.00	-0.3
	Z 20s		28.60um		6.9Msz
			ePP	32 41.00	
			ePPP	35 06.00	
			eSKS	38 36.00	
VAN	114.79	331	ePdiff	27 56.00	3.5
	Z 20s		23.20um		6.8Msz
	N 20s		9.52um		
	E 20s		23.50um		
			ePP	32 40.00	
			ePPP	35 06.00	
			ePS	42 18.00	
			iSS	48 36.00	
VRI	114.98	358	ePKP	31 59.00	16.3
FRF	115.20	14	ePKP	31 48.30	5.2
	1.2s		23.00nm		
LRG	115.23	15	ePKP	31 48.40	5.2
	1.2s		31.10nm		
TOL	115.24	24	ePKP	31 45.00	1.6
			iPP	32 46.00	
			i	33 12.00	
			ePKS	34 58.00	
			iSKS	38 32.00	
			eSKKS	39 37.00	
			i	40 34.00	
			iPS	42 23.00	
			iSS	48 21.00	
			eSSS	52 38.00	
SIM	115.34	352	ePdiff	27 57.00	2.2
	Z 20s		22.00um		6.8Msz
	N 20s		19.00um		
	E 20s		7.00um		
			iPP	32 51.00	
			iPPP	35 15.00	
			eSKS	38 33.00	
			iPS	42 27.00	
MLR	115.38	359	ePKPc	31 49.00	5.4
LMR	115.38	14	ePKP	31 50.10	6.6
	1.2s		17.20nm		
MHI	115.47	329	ePdiff	28 00.00	4.3
			e	31 26.00	
			e	31 50.00	
			e	32 44.00	
			eS	42 22.00	
HYB	115.54	301	ePdiff	27 54.00	-2.3
HYB	115.54	301	ePKP	31 45.00	0.4
			e	32 40.00	
CMP	115.61	360	ePKPc	31 45.00	1.1
SOC	115.77	348	ePdiff	28 00.00	3.3
			iPP	32 50.00	
			ePPP	35 17.00	
			iSKS	38 40.00	
			iPS	42 27.00	

16d 16h

SSR	115.97	2	ePKP	31	47.00	2.4			i	34	29.20		KLG	24.05	194	eP	35	35.00	0.1
SOB1	116.09	91	ePKP	31	50.40	4.7	BLF	170.25	189	iPKPd	33	14.50	5.2	RAB	24.12	84	iPd+	35	35.00	-0.7
			e	32	50.70					i	34	30.70		BAG	24.85	343	iP+	35	40.00	-2.6
MTA	116.35	343	ePKP	31	34.80	-10.5	SEK	170.71	197	iPKPd	33	16.00	6.4	BAL	25.41	203	eP	35	48.00	0.6
			eSKS	38	41.80		VIR	171.13	193	iPKPd	33	12.20	2.4	KLB	25.90	201	eP	35	51.00	-0.9
			ePS	42	34.80					i	34	35.00		KGM	26.48	290	ePd	35	58.00	0.6
KRV	116.89	342	iPKP	31	52.00	5.6	EVA	171.81	210	e(PKP)	33	15.50	5.4		0.9s	459.00nm			6.2mb	
			ePS	42	36.00					e	34	38.00					e	36	10.00	47kmX
LEN	117.48	344	ePKP	31	55.00	7.2	BFS	172.29	195	iPKPd	33	14.30	4.0				e	36	45.00	
			iPP	33	00.00			1.9s	442.00nm								e	39	20.50	
			iSKS	38	55.00					i	34	37.40		GUA	26.68	39	eP	35	58.00	-1.1
			ePS	42	42.00		BPI	172.56	205	iPKPd	33	17.00	6.5		0.9s	2400.00nm			6.9mb	
MNS	117.53	10	ePKP	31	52.00	4.5				e	34	40.00					pP	36	03.00	18kmX
KHI	117.61	328	ePKP	31	48.00	-0.3	MTD	172.81	290	iPKPc	33	14.00	3.4				e	36	36.00	
AQU	117.67	9	ePKP	31	51.50	3.5				iPP	34	40.00					eS	40	20.00	
			e	33	07.50					i	38	35.00		MUN	26.82	203	eP	35	58.00	-2.3
PVL	117.73	359	iPKPd	31	56.00	8.1	SLR	172.84	208	iPKPd	33	16.20	5.7	PAA	27.18	89	eP	36	01.50	-2.3
MAL	117.81	26	iPKP	31	53.80	5.5		1.0s	36.00nm					STK	27.36	154	iPc	36	03.40	-1.7
			iPP	33	08.50			Z 21s	22.90um					RKG	28.42	200	eP	36	19.00	4.4X
ERE	117.85	343	ePKP	31	52.00	3.6				i	33	43.00		KLM	28.44	291	eP	36	17.00	2.0
			eSKS	39	00.00		KRI	174.53	297	iPKPc	33	16.00	4.6				e	37	01.50	223kmX
GRS	117.94	341	iPKP	31	46.00	-2.7				iPP	34	49.00		PPI	28.51	283	ePd	36	15.00	-0.6
			iPP	33	10.00					i	38	40.00			0.9s	425.00nm			6.2mb	
			ePPP	35	35.00					iPKKP	44	08.00		ADE	29.07	162	iPc	36	19.60	-0.8
TTG	118.26	4	ePKP	31	54.50	5.6	BUL	176.10	259	iPKPc	33	17.00	5.4	CMS	29.07	148	iPc	36	18.70	-1.7
VTS	118.27	1	ePKP	31	49.00	0.1				iPP	34	55.00		IPM	29.57	293	ePc	36	23.20	-1.8
ITR	118.29	90	ePKP	31	49.20	-0.7				i	38	50.00			1.0s	305.00nm			6.0mb	
			i	31	54.70					iPKKP	43	49.00					e	36	37.80	59kmX
GBA	118.45	298	PKPd	31	48.80	-1.3		474 obs. ossociated									e	36	54.70	
	0.9s	3.80nm															e	37	11.40	
DUI	118.51	9	ePKP	31	51.00	1.6		NOV 24, 1983 05h 30m 36.46± 0.07s									e	38	09.90	
			e	33	07.00			7.444 S ± 1.7km 128.137 E ± 2.0km									e	39	16.90	
POO	118.64	305	ePKP	31	51.50	1.1		DEPTH = 198.8km (31 depth phases)									e	39	37.90	
DIM	118.83	359	ePKP	31	53.00	2.9		6.5mb (62 obs.)									e	42	59.90	
SKO	118.84	3	iPKP	31	54.00	3.9		BANDA SEA (280)						PSI	30.84	288	iPc	36	34.60	-1.5
	N 19s	2.90um						Felt on Alor, Flores, Sumba and						SVO	31.39	95	eP	36	38.00	-2.9
	E 20s	13.30um						Timor. Also felt in Australia									e(S)	38	23.00	
			i	33	20.00			from Darwin to Perth. Note the						TSI	31.45	289	e(P)	36	41.00	-0.4
KDZ	119.24	359	iPKP	31	56.00	5.1		large Ms magnitude for this							1.1s	702.00nm			6.3mb	
MMB	119.29	1	iPKPd	31	56.00	5.0		event, despite the well-						HNR	31.52	96	ePc	36	40.00	-2.1
AVE	119.34	31	ePKP	31	57.00	5.7		constrained depth of 199 km.									e(S)	38	26.00	
BRT	119.62	6	ePKP	31	57.00	5.4								ISI	31.82	353	eP	36	44.00	-0.5
			e	33	17.00		AAI	3.73	1	iPd	31	36.00	0.6				eS	37	31.00	
OHR	119.67	3	ePKP	31	53.60	1.8	KUPT	5.22	239	ePd	31	53.70	-0.7	COO	32.01	139	iPc	36	45.40	-0.8
			i	33	09.00		MTN	6.12	151	iPd	32	01.80	-4.2X	BFD	32.37	158	iPc	36	48.40	-0.8
			i	33	36.70		KNA	8.28	176	iPc	32	29.80	-4.5X	HKC	32.58	335	iP	36	51.00	-0.1
IFR	120.22	29	iPKP	31	58.00	4.8	MKS	8.89	284	iPd	32	45.40	3.1X				iS	51	59.00	
LCI	120.23	6	ePKP	31	59.00	6.3	MNI	9.42	339	ePd	32	52.00	2.8X	MCO	32.67	334	iP	36	52.60	0.6
			e	33	23.00					eS	35	18.50		ANP	33.06	349	iP+	36	56.00	0.6
ORI	120.35	7	ePKP	31	58.00	5.0	BKB	12.82	298	iPc	33	40.00	7.2X				iS	41	45.00	
ERC	121.75	11	ePKP	32	01.50	5.8		1.4s	1720.00nm			6.3mb		MVI	33.21	5	eP	36	58.00	1.5
MSL	121.77	342	iPKPd	32	02.00	6.2	WRA	13.81	155	Pc	33	41.20	-4.0X	QZH	33.51	344	iPc	36	57.50	-1.6
			iPP	33	29.50		WB2	13.81	155	iPd	33	39.60	-5.7X				pP	37	43.00	221kmX
			iPKS	35	51.50		DAV	14.66	350	eP	33	57.00	1.2				sP	38	09.00	
			eSKS	38	46.00		MBL	15.82	210	eP	34	07.00	-3.1X				iS	42	08.50	
			iSKKS	40	32.50		CGP	16.16	348	iPd	34	09.00	-5.2X				ScP	42	51.00	
KER	122.37	338	ePKP	32	08.00	10.8				iS	34	25.00					PcS	43	09.50	
IZM	122.42	357	ePKP	32	01.20	4.1	ASPA	17.05	162	iPd	34	20.00	-4.9X	GZH	33.62	335	iP	36	59.00	-1.0
BCK	123.13	354	ePKP	32	04.00	5.5	TBL	17.11	80	eP	34	24.30	-1.3				ipP	37	45.00	224kmX
ELL	123.90	355	ePKP	32	04.00	3.9	ISQ	17.21	141	iPd	34	20.10	-6.5X				isP	38	10.00	
SHI	124.25	330	ePKP	32	06.00	4.9	MDG	17.67	84	iPc	34	30.00	-1.5				iS	42	05.00	
MAW	126.10	197	ePKP	32	06.00	2.7	KKM	17.92	318	ePc	34	35.10	0.9				isS	43	20.00	
	1.5s	49.00nm								eS	35	22.90					iSS	44	24.00	
	Z 16s	4.60um				6.2MszX				e	35	38.20		CAN	33.71	148	iPc	37	00.10	-0.7
ADI	126.80	349	ePKP	32	11.00	5.3				e	35	47.00		RIV	33.79	144	eP	37	04.00	2.6
JER	128.08	348	ePKP	32	14.50	6.2				e	36	28.50		TOO	33.88	155	iPc	37	02.60	0.4
NVL	128.10	175	iPKP	32	11.00	4.0				e	47	11.20		NNT	34.54	305	eP	37	21.30	13.3X
	Z 17s	2.30um				5.9MszX	CCP	18.15	347	iPd	34	38.00	1.4				i	40	05.00	
	N 17s	13.00um								iS	35	11.20		NZJ	35.63	2	eP	37	17.00	0.0
	E 17s	8.00um					WBN	18.65	184	iPd	34	40.20	-1.6				S	42	42.20	
HLW	130.56	352	iPKPc	32	16.00	3.1	LAT	18.74	89	eP	34	40.00	-2.7	NST	36.01	310	iPd	37	19.80	-0.6
KIC	141.42	51	ePKP	32	27.90	-5.8	PLP	18.75	350	iPd	34	43.00	0.1	KHT	36.69	307	eP	37	30.50	4.4X
			e	32	40.40		PMG	18.91	97	iP+	34	40.50	-4.0X	CBI	36.93	21	P	37	27.20	-0.8
			e	35	25.30		NAU	19.32	218	iPd	34	48.10	-0.6	BDT	37.83	311	iPc	37	36.00	0.4
BNG	155.56	15	iPKPc	32	58.00	2.2	PPR	19.50	331	ePd	34	52.00	1.4		0.7s	468.00nm			6.2mb	
	1.7s	238.00nm								iS	35	25.20		TAJ	38.06	4	eP	37	38.00	0.7
AVY	158.10	267	ePKPc	33	04.00	5.0	LMG	19.86	96	eP	34	51.00	-3.4X				eS	43	20.00	
NAI	158.33	325	ePKPc	33	07.00	7.5	MOM	19.93	75	eP	34	54.00	-0.9	CHG	38.85	313	iPc	37	44.50	0.4
	2.0s	471.00nm					CNP	20.12	350	ePc	35	01.00	4.2X		1.2s	198.00nm			5.6mb	
NPA	165.31	285	ePKP	33	12.00	5.9				eS	35	26.00					eS	42	18.00	
			e	34	05.00		LGP	20.93	348	iPd	35	12.00	7.2X	KAG	38.86	3	Pd	37	44.80	0.8
			e	37	51.00		MEK	21.13	204	iPd	35	06.00	-0.8				S	43	24.30	
GRM	166.05	187	iPKPd	33	09.20	2.9	CTA	21.59	127	iPc	35	11.00	-0.4	SSE	38.89	350	iPc+	37	43.00	-1.2
	1.7s	269.00nm						0.5s	54.60nm			5.3mb X			4.0s	7.60nm			3.7mb X	
	Z 18s	11.20um								i	35	13.00	7kmX		E 10s	54.00um				
			i	33	32.50		CTAO	21.59	127	iP	35	11.00	-0.4				pP	38	32.00	235kmX
HVD	168.84	184	iPKPd	33	19.30	10.8	QCP	23.03	342	eP	35	27.00	1.8				PP	39	20.00	

24d 05h

			PcP	39	40.00		FUK	43.93	9	eP	38	27.00	1.8	SAP	51.68	12	eP	39	22.00	-3.0X
			i	40	21.00		DDR	44.44	13	eP	38	25.00	-4.4X				S	46	35.00	
			ScP	43	13.00		CHO	44.57	15	eP	38	35.00	4.7X	MDJ	51.83	1	eP	39	24.50	-1.7
			iS	43	32.00					eS	44	53.00					pP	40	14.00	224kmX
			SS	46	25.00		TIA	44.64	347	Pc	38	29.40	-1.5				sP	40	39.00	
			i	47	58.00					PP	40	14.70					iS	46	36.00	
MYZ	39.26	4	eP	37	47.00	-0.3				S	44	53.20		OBI	51.97	14	eP	39	28.00	0.8
			eS	43	21.00		CD2	44.72	330	iPc	38	31.00	-0.7	ASA	52.58	13	eP	39	32.00	0.3
GYA	39.62	329	Pc	37	50.00	-0.5				pP	39	19.00	224kmX				e	40	17.00	201km
			S	43	42.00					iS	44	54.00		RMJ	52.59	12	eP	39	13.00	-18.7X
NOU	39.72	116	iPc	37	50.50	-0.7	MAT	44.76	12	eP	38	28.00	-3.9X				eS	46	45.00	
			iS	43	46.50					eS	44	54.00		TCW	52.92	137	P	39	33.10	-1.2
FKJ	39.92	1	Pd	37	54.80	2.1	TSK	44.86	14	eP	38	28.20	-4.4X	NEM	52.96	16	eP	39	34.00	-0.4
			eS	43	43.00		XAN	45.10	337	iPc	38	32.80	-1.8				S	46	51.00	
NOB	39.95	5	eP	37	52.00	-0.8				sP	39	42.00		MCQ	53.04	158	iPd	39	36.80	1.9
			S	43	47.00					PP	40	28.00					eS	40	21.00	
NGS	39.99	2	Pc	37	53.20	0.0				S	45	00.00		ABJ	53.26	14	eP	39	35.00	-1.7
			S	43	48.40		MIT	45.10	14	eP	38	30.00	-4.5X				S	46	53.80	
WHN	40.02	341	iPc	37	53.00	-0.5				eS	44	59.00		WEL	53.29	137	P	39	34.50	-2.5
			pP	38	42.00	234kmX	WAJ	45.35	10	eP	38	38.00	1.6		Z	18s	165.00um			7.1Msz
			sP	39	05.00					S	45	07.00			N	20s	213.00um			
			PP	39	35.00		AIK	46.20	11	eP	38	46.00	2.8		E	20s	213.00um			
			S	43	49.50		FKS	46.42	14	eP	38	48.00	3.1X				PcP	40	29.00	
			ScS	47	32.00					eS	45	22.00					iS	47	00.00	
KUM	40.10	3	eP	37	56.00	1.9	DL2	46.51	353	P	38	44.60	-1.0				ScS	49	14.00	
			eS	43	49.00					pP	39	34.00	230kmX	GTA	53.49	333	iPc	39	37.80	-0.9
ASZ	40.21	6	eP	37	54.00	-1.0				sP	39	57.00					pP	40	24.00	206km
			e	43	54.30					PP	40	35.00					S	47	00.00	
NJ2	40.26	348	Pc	37	55.20	-0.3				S	45	16.00		PKI	54.03	312	iPc	39	41.60	-1.4
			pP	38	43.00	227kmX				sS	46	41.00		KKN	54.24	312	iPc	39	43.20	-1.3
			S	43	51.00		YAM	46.86	13	eP	38	51.00	2.6	DMN	54.27	312	iPc	39	43.80	-0.9
PVC	40.44	109	iPc	37	56.20	-0.9	SEN	47.00	14	eP	38	53.00	3.6X	GBA	54.51	292	P	39	44.10	-2.1
OIT	40.59	4	ePd	38	00.00	1.9				S	45	28.80		GNZ	54.52	133	P	39	45.00	-1.0
			eS	44	00.00		ISN	47.25	14	eP	38	54.00	2.6				S	47	14.30	
KMI	40.74	323	iPc+	38	01.00	1.2				eS	45	31.00		HYB	54.86	297	iPc	39	46.00	-2.8
	1.0s		48.10nm			5.0mb X	TIY	47.26	343	Pc	38	50.30	-1.3		1.0s		1340.00nm			6.6mb
E	14s		108.00um							pP	39	37.00	215kmX				iS	47	14.00	
			pP	38	32.00	139kmX				PP	40	40.00		KUR	55.35	17	iPc	39	50.00	-1.8
			sP	38	44.00					S	45	33.00			1.3s		4170.00nm			7.0mb
			PP	39	37.00		OFU	47.96	14	eP	38	57.00	0.2				epP	40	35.00	199km
			S	44	01.00					S	45	42.50					esP	40	58.00	
			sS	44	20.00		AKI	48.21	12	eP	39	02.00	3.2X				iS	47	24.00	
FKK	40.85	3	eP	38	01.00	0.7				eS	45	48.00					eSS	51	08.00	
			eS	43	57.00		BJI	48.52	348	Pc	39	00.00	-1.1	YSS	55.75	12	eP	39	53.00	-1.6
MRT	40.87	8	eP	38	01.00	0.5		2.0s		1850.00nm			6.2mb		0.8s		1280.00nm			6.7mb
			eS	44	01.00		E	19s		55.50um					Z	20s	74.60um			6.8Msz
KOC	41.09	7	eP	38	01.00	-1.2				pP	39	28.00	120kmX		N	20s	90.00um			
			e	38	50.00	233kmX				sP	39	46.00			E	20s	26.00um			
SHN	41.26	4	ePd	38	03.00	-0.6				PP	40	59.00					iS	47	27.00	
			eS	44	05.00					PPP	41	47.00		CBZ	56.03	151	eP	40	00.00	3.4X
SHJ	41.31	10	eP	38	04.00	0.0				eS	45	50.00		AFI	59.27	102	iPc	40	20.00	0.2
			e	38	47.00	201km				sS	46	40.00					ePcP	41	00.00	
IZU	41.43	1	eP	38	03.00	-2.0				ScS	48	39.00					e(PPP)	43	08.00	
			eS	44	11.00		MIY	48.57	14	eP	39	04.00	2.5				eS	48	20.00	
TKS	41.73	8	eP	38	07.00	-0.5				S	45	53.10					(ScS)	51	00.00	
			e	44	14.00		LZH	48.95	334	iPc+	39	04.00	-0.8	POO	59.43	297	iPc	40	18.80	-2.0
HIR	41.78	5	eP	38	07.00	-0.8	E	14s		33.00um				DRV	59.69	175	eP	40	20.80	-1.0
			eS	44	14.00					ipP	39	53.00	224kmX	NDI	60.80	309	iPc	40	27.00	-3.0X
TKM	41.91	7	eP	38	08.00	-0.9				PP	40	59.50			1.0s		790.00nm			6.4mb
			eS	44	15.00					PPP	42	02.00		NUE	61.11	108	P	40	31.60	-0.6
SHK	41.97	6	ePc	38	08.00	-1.4				PcS	44	19.00		ZAK	61.50	342	iPc	40	34.00	-0.2
			eS	44	15.00					iS	45	51.00			2.4s		7910.00nm			7.1mb
OKA	42.25	7	eP	38	12.00	0.3	CRZ	48.95	130	eP	39	04.00	-0.6				eS	48	40.00	
			e	44	19.00		NDF	49.07	107	ePc	39	05.00	-0.7	TUP	62.03	355	ePc	40	36.90	-0.7
HMD	42.27	5	eP	38	07.00	-4.8X	HAC	49.30	13	eP	39	06.00	-1.1		2.2s		750.00nm			6.1mb
			e	38	59.00	248kmX				eS	46	00.00		SKR	62.73	20	iPd	40	43.60	1.2
OSK	42.43	9	eP	38	14.00	0.8	VUN	50.06	107	iPd	39	12.30	-0.9		0.5s		190.00nm			6.2mb
			eS	44	16.00		SVA	50.06	107	ePc	39	13.20	0.0		Z	18s	46.90um			6.7Msz
OSA	42.47	9	eP	38	15.00	1.5	HAK	50.36	12	eP	39	15.00	-0.1		N	18s	29.60um			
HIM	42.51	8	eP	38	14.00	0.3				e	46	18.30			E	18s	35.60um			
			eS	44	24.00		HHC	50.42	344	iPc	39	16.00	0.2				ipP	41	27.00	186kmX
KYO	42.83	9	eP	38	17.00	0.6				PP	41	14.00					iPP	43	02.00	
			eS	44	28.00					S	46	22.00					iPPP	44	34.00	
MTS	42.92	6	P	38	19.80	2.7	VLA	50.44	4	iPd	39	16.00	0.3				iS	49	00.00	
TOT	43.10	7	eP	38	19.00	0.4	BTO	50.64	342	iPc	39	15.50	-1.9	WMQ	62.77	328	iPc	40	42.20	-0.7
			e	44	32.00					pP	40	05.00	225kmX				iS	49	00.50	
HIK	43.17	10	eP	38	20.00	0.9				sP	40	32.00		IRK	62.88	344	ePc	40	42.50	-0.8
			eS	44	33.00					S	46	15.00			1.4s		1860.00nm			6.7mb
NAG	43.19	11	eP	38	22.00	2.7	CN2	51.06	357	iPc	39	18.00	-2.4				ePcP	41	21.00	
TYK	43.21	8	eP	38	20.00	0.6				ipP	40	06.50	220kmX				epP	41	28.00	195km
TAT	43.63	14	eP	38	36.00	13.2X				sP	40	30.00					eS	49	00.00	
IID	43.69	11	eP	38	26.00	2.6				S	46	23.00		MOY	63.34	341	eP	40	45.20	-1.1
			e	38	41.00	58kmX	SUT	51.20	11	eP	39	21.00	-0.4		1.1s		480.00nm			6.2mb
SAI	43.69	6	eP	38	23.00	-0.3				S	46	28.70					eS	49	05.00	
			S	44	40.40		LSA	51.26	318	iPc	39	22.50	-0.2	PET	65.57	20	iPc	40	59.00	-1.6
KYS	43.90	14	eP	38	22.90	-2.1				pP	40	09.50	212kmX		1.2s		3200.00nm			7.0mb
OYM	43.90	13	eP	38	23.80	-1.3				S	46	19.50			Z	18s	52.50um			6.8Msz

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	N	21s	34.20um								eSPP	51	31.30				2.1s	6560.00nm		7.0mb			
	E	21s	34.00um								eSSS	58	44.00			Z	18s	49.00um		6.9Msz			
			ePcP	41	30.00		NVS	72.48	335	iPc	41	41.00	-1.8			N	18s	40.00um					
			eS	49	30.00			2.0s	4900.00nm			6.9mb				E	18s	30.50um					
			eSP	49	50.00					iS	50	53.70						epP	43	33.00	191km		
			eScS	50	30.00		SEY	72.56	11	iPc	41	42.60	-0.6					eS	52	59.00			
			eSS	53	46.00			1.5s	1220.00nm			6.4mb			ARU		85.08	328	iPc	42	50.00	-0.7	
KSH		67.07	318 iPc	41	11.00	0.4				ipP	42	28.40	191km				8.0s	********nm			7.0mb	X	
			pP	42	00.00	209kmX				iS	50	58.40				Z	22s	44.00um		6.8Msz			
PRZ		67.20	322 iPd	41	11.80	0.4				iSPP	51	35.40				N	18s	17.00um					
		1.8s	3800.00nm			6.8mb				ePS	51	48.40				E	18s	32.00um					
			eS	49	54.00		SBA	73.15	172	eP	41	46.80	0.4					epP	43	38.50	197km		
			eScS	50	52.00					iS	51	04.00						esP	43	58.00			
NRN		68.11	320 iPc	41	16.00	-1.3	SAM	73.29	315	iPc	41	47.70	-0.3					ePP	46	14.00			
			eS	50	03.00			9.0s	********nm			7.2mb	X					ePPP	48	02.00			
TLG		68.26	322 iPc	41	18.20	0.4				isP	42	54.50			SDN		85.68	33	eP	42	53.10	-0.6	
		1.7s	1070.00nm			6.3mb				iSPP	51	44.00			KER		86.81	305	eP	42	53.00	-6.9X	
			ipP	42	08.00	212kmX	MAW	73.87	201	iPd	41	51.90	1.2		ANM		86.86	23	eP	42	58.90	-0.4	
			ePP	43	54.00		ADK	75.52	32	eP	42	01.20	0.8		NPA		87.02	255	iPd	43	03.00	1.9	
			iS	50	07.00		KHI	77.51	307	ePc	42	12.00	-0.1					eS	53	19.00			
AAA		68.53	322 iPc	41	18.80	-0.7	MHI	77.53	310	iPc+	42	12.20	0.2		TAB		88.14	309	iP+	43	07.00	0.8	
		8.0s	47.00nm			4.3mb X		1.4s	3890.00nm			6.9mb			MAK		88.28	314	iPc	43	07.50	1.0	
KHO		69.13	315 iPc	41	22.00	-1.4	HON	77.84	66	P	42	15.00	1.2				6.0s	********nm			7.3mb	X	
		6.0s	********nm			7.2mb X	KIP	77.86	66	P	42	15.50	1.6			Z	17s	43.00um		6.9MszX			
	Z	18s	75.00um			7.0Msz	AVY	78.58	252	iPc	42	18.40	0.2			N	21s	30.00um					
	N	18s	18.40um				TIK	78.91	0	iPc	42	16.50	-2.1			E	15s	34.00um					
	E	18s	46.60um					0.8s	1000.00nm			6.6mb						iPP	46	35.00			
			ePP	43	53.00					epP	43	04.00	196km					iS	53	39.00			
			eS	50	14.60					esP	43	24.00			GRS		88.40	310	iPc	43	07.20	-0.3	
YAK		69.26	1 iPc	41	22.30	-1.1				eS	52	00.00					5.0s	********nm			7.0mb	X	
		0.8s	3790.00nm			7.2mb	ASH	78.93	311	eP	42	20.00	0.5					ipP	43	59.00	210kmX		
			ipP	42	08.20	193km		5.0s	********nm			7.3mb	X					iPP	46	44.00			
			ePP	44	05.20			Z	20s	63.80um			7.0Msz					eSKS	53	19.00			
			ePPP	45	43.20					ePcP	42	25.00						iS	53	42.40			
			iS	50	17.20					ePP	45	21.00			KRV		88.62	311	iP	43	09.00	0.7	
			eSP	50	31.00					ePPP	47	20.00						iS	53	40.00			
			iScS	51	05.60		VAN	79.11	311	eP	42	20.00	-0.5		BHD		88.85	304	ePd	43	14.00	4.6X	
			eSS	54	43.20					ePP	45	30.00						ePP	46	49.00			
MGD		69.69	12 iPc	41	25.20	-0.9				eS	52	06.00						e	49	26.50			
		0.8s	1560.00nm			6.8mb	TBI	80.14	112	iP	42	27.70	1.5					iS	53	45.50			
			iPcP	41	45.00			1.1s	1120.00nm			6.5mb						ePS	54	48.00			
			ipP	42	10.00	188kmX				epP	43	15.00	194km					i	55	05.00			
			isP	42	32.00		NKI	80.21	33	eP	42	26.70	0.8					i	56	15.00			
			iPP	44	08.00		AFR	80.28	107	iP	42	28.20	1.2		GRO		89.60	314	iPc	43	12.00	-0.7	
			iS	50	20.20					epP	43	16.00	196km				1.5s	2300.00nm			6.9mb		
FRU		69.72	321 iPc	41	26.80	0.0	PAE	80.46	107	iP	42	29.20	1.3			Z	22s	46.00um		6.9Msz			
		2.4s	6900.00nm			7.0mb				epP	43	16.00	192km			N	23s	52.00um					
	Z	25s	64.50um			6.8MszX	PPT	80.47	107	iP	42	29.50	1.5			E	16s	6.50um					
	N	24s	76.70um							epP	43	17.00	195km					ipP	44	02.00	202km		
	E	24s	71.70um				PPN	80.61	107	iP	42	30.00	1.3					iS	53	42.00			
			ePcP	41	52.30					epP	43	18.00	197km					iSP	54	50.00			
			epP	42	13.00	195km	TVO	80.76	107	iP	42	31.50	1.9		SVW		89.88	28	eP	43	14.00	0.3	
			ePPP	45	48.00			1.2s	785.00nm			6.3mb			ERE		89.91	310	iPc	43	13.50	-0.9	
			eS	50	23.00		KAT	80.86	312	iPc	42	31.50	1.8		TTA		90.20	26	eP	43	14.70	-0.5	
			eScS	51	12.00			8.0s	********nm			7.3mb	X		MSL		90.35	306	ePd	43	16.00	-0.4	
			eSS	54	48.00					epP	43	22.50	210kmX					i	43	20.00	12kmX		
ELT		70.07	335 iPc	41	27.20	-1.3				ePP	45	30.00						i	44	09.00			
		1.0s	2910.00nm			7.0mb				eS	52	26.50						iPPP	46	16.00			
			iS	50	23.00					eSPP	53	27.00						iS	50	05.50			
ANR		70.12	318 iPc	41	28.40	-0.8	SHI	81.30	301	eP	42	31.00	-1.4					iSS	53	26.50			
		1.6s	7100.00nm			7.1mb	NRI	81.47	347	iPc	42	31.20	-1.0					iSSS	54	56.50			
			iS	50	28.20			0.9s	580.00nm			6.3mb			LEN		90.50	311	iPc	43	19.00	1.8	
KUL		70.58	314 iPc	41	30.10	-1.9				epP	43	14.00	173kmX				2.0s	900.00nm			6.4mb		
		7.8s	8000.00nm			6.5mb X				eS	52	29.00						iPP	47	03.00			
			ePP	44	04.30					eSPP	53	33.00						iPPP	49	00.00			
			iPS	51	23.80					eSS	57	43.00			AAE		90.53	279	iP	43	19.50	1.5	
GAR		70.68	316 iPc	41	31.50	-1.2	PMO	82.31	104	iP	42	39.10	1.5		KDC		90.61	32	eP	43	17.20	0.2	
		1.2s	70.00nm			5.3mb X		1.2s	1570.00nm			6.6mb			BKR		90.90	312	iPc	43	20.00	1.0	
			iPcP	41	45.10					epP	43	28.00	200km				1.6s	1100.00nm			6.6mb		
			iPPP	45	52.30		VAH	82.54	104	iP	42	40.00	1.2					ipP	44	10.00	202km		
			iS	50	32.30			1.2s	685.00nm			6.3mb						iPP	46	54.00			
			iScS	51	18.30					epP	43	29.00	201km					iS	53	52.00			
			iSS	55	10.00		TPT	82.58	104	iP	42	40.50	1.5		NAI		91.16	269	iPc	43	23.00	2.1	
RAR		70.68	110 P	41	32.00	-0.9		1.2s	880.00nm			6.4mb					1.0s	30.00nm			5.3mb	X	
			S	50	36.00					epP	43	30.00	203km					iS	43	44.00			
SEM		70.94	330 iPc	41	33.40	-0.4	SPA	82.61	180	iPd	42	38.20	-0.2		NVL		91.39	197	iP	43	21.00	0.5	
		7.8s	********nm			7.1mb X		1.0s	70.00nm			5.3mb	X			Z	18s	2.15um		5.6MszX			
			ipP	42	21.60	203km		Z	18s	50.90um		6.9Msz						ipP	44	09.00	193km		
			iS	50	35.00		RUV	82.78	104	iP	42	41.20	1.2					isP	44	30.00			
SMY		71.52	27 eP	41	38.60	1.4		1.2s	490.00nm			6.1mb						iSKS	53	42.00			
DSH		71.56	315 iPc	41	37.00	-0.9				epP	43	31.00	204km		PYA		91.59	314	iPc	43	21.00	-0.9	
	Z	21s	114.00um			7.1Msz	TEH	83.68	307	eP	42	48.00	3.6X				2.0s	1650.00nm			6.7mb		
TAS		72.43	317 iPc	41	42.30	-0.6	ILT	83.92	18	iPc	42	44.00	-0.8					ipP	44	12.00	206km		
		1.4s	********nm			7.4mb		1.2s	1500.00nm			6.6mb						eSSS	03	56.00			
	Z	18s	48.00um			6.8Msz				ipP	43	34.00	204km		IMA		91.99	24	eP	43	22.40	-1.1	
			ePP	44	28.30					iPPP	47	59.00			PMR		93.04	28	eP	43	26.90	-1.2	
			eS	50	57.00		SVE	84.19	329	iPc	42	46.00	-0.3			Z	20s	40.00um		6.9Msz			

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RKT	93.40	114	iP	43	33.60	3.0X				iSKS	54	13.00				0.6s	B.00nm		5.9mb				
	1.0s	260.00nm			6.3mb		APA	98.67	337	iPc	43	59.30	5.6X	COZ	104.95	315	ePdiff	44	27.00	4.5X			
SOC	93.93	313	eP	43	30.50	-2.2		1.2s	260.00nm			6.5mb		CJR	105.35	316	ePdiff	44	28.00	4.0X			
	3.0s	1500.00nm			6.6mb					iSKS	54	16.80		MMB	105.68	311	ePdiff	44	28.00	2.4			
	Z 24s	65.00um			7.0MszX					iS	54	59.00		ATH	105.90	307	iPdiff	44	24.00	-2.6X			
		ipP	44	20.00	199km		HLW	99.54	299	iPc	44	04.00	5.5X				iPP	48	56.00				
		iSKS	53	40.00				Z 23s	4.00um			5.9MszX					iSKS	55	00.00				
		iS	54	18.00			SIT	99.76	33	eP	43	59.90	1.1	VTS	105.99	312	ePdiff	44	30.00	3.1X			
		eSP	55	44.00			INK	99.97	22	ePc	43	57.80	-1.8	WAR	106.32	322	ePdiff	44	35.00	6.9X			
		iSPP	56	20.00				1.3s	223.00nm			6.4mb					eS	49	05.00				
MTD	94.10	253	eP	43	33.00	-1.1				pP	44	49.00	207km	VAY	106.57	311	iPdiff	44	32.00	2.5X			
		ePP	48	23.00			PUL	100.33	329	iPdiff	44	05.00	3.7X	UPP	106.65	330	iPdiff	44	33.10	3.8X			
		iPKKP	00	36.00				6.0s	3300.00nm			7.0mb X					iPP	49	03.40				
KHE	94.10	351	iPc	43	34.00	1.2		Z 22s	51.00um			7.0Msz		SSR	106.83	315	ePdiff	44	32.00	1.4			
	5.0s	6000.00nm			7.0mb X			N 22s	54.00um					JOS	107.19	318	ePdiff	44	33.00	0.9			
	Z 22s	125.00um			7.3Msz			E 24s	54.00um						2.0s	130.00nm			6.7mb				
	N 22s	30.00um								iPP	48	18.00		SPC	107.28	319	e(Pdif	44	34.60	1.9			
	E 22s	66.00um								iSKS	55	16.00			Z 20s	64.50um			7.2Msz				
		ipP	44	21.00	188kmX					eS	55	24.00					i	49	07.30				
		iPP	47	23.00			SUR	100.44	235	iPdiff	44	07.00	4.2X	KRA	107.34	320	iPdiff	44	33.00	0.3			
		iSKS	53	54.00				1.1s	304.00nm			6.7mb			Z 36s	254.00um			7.5MszX				
		iS	54	27.00				Z 21s	95.30um			7.3Msz			N 46s	373.00um							
COL	94.17	25	eP	43	31.00	-2.3	GPA	100.73	310	ePdiff	44	04.80	1.1		E 72s	552.00um							
	1.3s	591.00nm			6.6mb		KEV	100.79	340	ePdiff	44	03.00	-0.2				e	44	35.00				
	Z 23s	75.00um			7.1MszX			1.0s	102.00nm			6.3mb					i	44	39.60				
		eS	54	17.00						i	44	14.00					e	44	45.00				
FBA	94.17	25	eP	43	31.10	-2.2				ePP	47	40.00					e	44	47.50				
TOA	94.50	28	e(P)	43	34.60	-0.4				eSKS	54	24.00					i	49	12.00				
EVA	94.75	243	iPd	43	38.50	1.4				eS	55	20.00					iS	55	11.00				
SLR	95.60	243	iPd	43	41.20	0.3				iPKKP	00	27.50					i	57	43.00				
	0.9s	53.80nm			5.8mb		ALT	100.87	308	ePdiff	44	10.00	5.6X	SKO	107.35	312	iPdiff	44	32.00	-1.0			
	Z 22s	44.40um			6.9Msz		ELL	100.99	306	iPdiff	44	06.00	1.0				i	48	41.90				
BPI	95.73	243	iPd	43	42.30	0.7	KJF	101.20	334	iPdiff	44	03.00	-2.1				i	49	07.00				
		i	43	55.00	42kmX			1.0s	264.00nm			6.7mb		PGC	107.70	41	ePdiff	44	41.20	6.9X			
ANN	95.79	314	iPc	43	39.00	-2.1				i	44	15.20		PGC	107.70	41	ePKP	48	49.00	7.7X			
	9.0s	8000.00nm			7.0mb X					iPP	48	26.00		PSZ	107.70	318	e(Pdif	44	39.00	4.5X			
	N 25s	114.00um								eSKS	54	36.00		OHR	107.92	311	ePdiff	44	39.00	3.4X			
	E 22s	55.00um								iPKKP	00	16.00					i	47	57.10				
		ePPS	57	01.00			HRT	101.22	310	ePdiff	44	09.00	3.1X				i	55	02.70				
KRI	95.95	252	eP	43	43.00	0.4	SOD	101.26	337	iPdiff	44	05.60	0.3	BUD	108.35	318	e(Pdif	44	39.00	1.7			
		iPP	48	23.00						iSKP	47	24.40		FHC	108.35	50	ePdiff	44	40.50	3.0X			
		iPKKP	00	38.00						iPP	48	10.90		FHC	108.35	50	ePKP	48	51.00	8.1X			
MGI	96.21	302	eP	43	46.00	2.6				ePKKP	00	14.00		DAG	108.46	352	iPdiff	44	35.20	-1.9			
BUL	96.32	249	iPc	43	44.00	-0.3	ISK	101.69	310	ePdiff	44	06.30	-1.5		0.7s	8.22nm			6.1mb				
		eS	54	12.00			KIS	101.72	316	iPdiff	44	10.00	2.2				i	49	14.00				
		ePKKP	00	37.00				5.0s	1400.00nm			6.8mb X		HFS	108.47	331	ePdiff	44	36.20	-1.3			
JER	96.36	301	eP	43	46.50	2.4		Z 25s	33.00um			6.8MszX			0.6s	11.00nm			6.3mb				
MOS	96.38	325	eP	43	43.00	-0.5				iSKS	54	32.00		SRO	108.77	318	ePdiff	44	44.00	4.9X			
	3.0s	7000.00nm			7.5mb					iS	55	30.00					e	45	30.00				
	Z 17s	52.80um			7.1MszX		DST	102.02	309	ePdiff	44	08.00	-1.4				e	47	54.00				
	N 20s	41.00um					SUF	102.07	333	iPdiff	44	07.70	-1.3				e	49	24.00				
	E 18s	50.20um					KBS	102.18	350	iPdiff	44	09.90	0.7	TTG	108.91	312	e(Pdif	44	41.00	1.2			
		epP	44	31.00	193km		CFR	102.27	315	ePdiff	44	02.00	-8.3X				e	48	01.00				
		iPP	47	43.00			PSN	102.29	313	iPdiff	44	15.00	4.6X				e(S)	54	47.00				
		iPPP	49	44.00			YER	102.30	306	ePdiff	44	12.60	1.9	YKA	108.96	26	ePdiff	44	43.40	3.8X			
		eSKS	54	04.00			TLB	102.38	314	ePdiff	44	16.00	5.2X	YKA	108.96	26	ePKP	48	44.80	1.5			
		iS	54	45.00			MBC	102.46	13	ePdiff	44	09.50	-1.0	YKC	109.02	26	ePdiff	44	45.00	5.1X			
		iSP	56	04.00				0.7s	64.00nm			6.4mb			1.1s	66.00nm							
		iSS	01	20.00			PPE	102.61	316	ePdiff	44	05.00	-6.8X	YKC	109.02	26	ePKP	48	43.00	-0.4			
BFS	96.68	242	iPd	43	43.70	-2.1	CLI	102.83	316	ePdiff	44	29.00	16.2X		0.8s	115.00nm							
	0.8s	403.00nm			6.8mb		MFT	103.04	310	ePdiff	44	16.00	2.0	NB2	109.33	333	Pdiff	44	41.70	0.4			
BLF	96.74	240	iPd	43	47.50	1.4	NUR	103.08	330	iPdiff	44	15.10	1.6		0.8s	22.90nm							
		i	44	48.00	248kmX			1.0s	94.00nm			6.5mb		WDC	109.47	50	ePdiff	44	45.30	2.9X			
RMN	96.74	300	eP	43	48.00	2.2				i	44	23.90		WDC	109.47	50	ePKP	48	52.00	7.0X			
KSR	96.79	243	eP	43	44.90	-1.5	IZM	103.10	308	ePdiff	44	17.30	3.1X				eSP	58	56.50				
OBN	96.93	325	iPc	43	44.90	-1.1	VRI	103.25	315	ePdiff	44	17.00	2.3	KSP	109.48	321	ePdiff	44	45.00	2.8X			
	1.2s	720.00nm			6.9mb		ISR	103.41	315	ePdiff	44	20.00	4.5X		0.8s	72.00nm							
	Z 28s	105.00um			7.2MszX		JMB	103.51	312	iPdiff	44	15.00	-0.9				e	48	17.00				
	N 28s	73.00um								iPP	48	40.00					i	48	57.00				
	E 28s	101.00um					TRO	103.58	340	ePdiff	44	15.50	0.0				i	49	25.00				
		ipP	44	36.00	206km		EZN	103.79	309	ePdiff	44	18.00	0.8	ZST	109.50	319	ePdiff	44	46.90	4.5X			
		iPP	47	50.00			MLR	103.82	315	ePdiff	44	16.50	-0.9				e	48	20.20				
		iSKS	54	08.00			BUC1	103.82	314	ePdiff	44	18.00	0.8				i	48	58.20				
		iPS	56	32.00			DIM	104.27	311	ePdiff	44	30.00	10.7X	BNG	109.96	272	iPdiff	44	48.30	3.1X			
		iPPS	57	30.00			KDZ	104.46	311	iPdiff	44	19.00	-1.2		0.5s	142.00nm							
		iSS	01	30.00			PVL	104.51	313	iPdiff	44	23.00	2.7X	VKA	110.00	319	ePdiff	44	49.00	4.4X			
		iSSS	05	20.00			LVV	104.75	319	iPdiff	44	27.50	6.3X		4.5s	739.00nm							
HVD	97.00	238	iPd	43	49.50	2.3		9.2s	4200.00nm								pP	45	38.00				
PCA	97.20	30	eP	43	47.00	-0.3		Z 20s	36.30um			6.9Msz					SP	45	59.00				
SWZ	97.90	241	eP	43	51.00	-0.3		N 20s	46.20um								e	48	18.20				
SIM	98.05	314	ePc	43	49.00	-2.3		E 19s	28.00um								e	48	47.40				
	Z 28s	87.00um			7.1MszX					ePP	48	52.00		VKA	110.00	319	iPKPd	48	57.90	12.1X			
	N 28s	132.00um								eSKS	55	28.00			Z 20s	12.40um			6.5Msz				
	E 28s	130.00um								iS	55	57.50					iPP	49	26.80				
		ipP	44	39.00	202km					iSP	57	29.00					ipPP	50	11.80				
		iPP	47	59.00						iPS	57	53.00					iS	56	46.00				
		ePPP	50	09.00			ALE	104.83	1	ePdiff	44	21.00	0.1				isS	58	07.00				

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BKS 110.02 52 Pdiff 44 50.00 5.1X
1.0s 87.00nm
BKS 110.02 52 ePKP 48 46.50 0.4
Z 20s 82.00um 7.3Msz
N 20s 59.00um
E 20s 73.00um
ePP 49 30.00
eSKS 55 20.00
ePS 58 39.00
ePKKP 59 58.00
eSS 04 50.00
ePSPS 05 50.00
eP'P' 09 44.00
LCI 110.15 310 ePKP 48 56.00 9.7X
MIN 110.21 50 ePdiff44 48.00 2.1
MIN 110.21 50 PKP 48 55.00 8.4X
SP 59 01.00
PKKP 59 57.00
COP 110.47 327 ePdiff44 49.00 2.6X
Z 20s 56.70um 7.1Msz
iS 56 51.00
MHC 110.54 53 ePdiff44 48.50 1.1
MHC 110.54 53 ePKP 48 54.20 6.9X
PRU 110.76 321 ePdiff44 52.50 4.6X
Z 19s 50.30um 7.1Msz
N 20s 57.40um
E 20s 31.50um
e 45 43.00
e 48 32.00
i 48 59.50
PP 49 36.00
e 56 22.00
PKKP 58 41.00
BRG 110.92 322 ePdiff44 53.10 4.5X
1.6s 70.00nm
epP 45 44.40
BRN 110.96 324 ePdiff44 50.00 1.3
epP 45 43.00
SKS 55 37.00
CLL 111.38 322 Pdiff 44 50.00 -0.6
pP 45 40.00
CLL 111.38 322 iPKP 48 59.70 11.5X
iPP 49 40.00
PKKP 00 04.80
JAS 111.42 52 ePdiff44 50.30 -0.9
JAS 111.42 52 ePKP 48 50.90 2.1
1.1s 5.50nm
PRI 111.46 54 ePdiff44 54.00 2.5X
PRI 111.46 54 ePKP 48 56.50 7.4X
KMR 111.48 319 ePdiff44 58.00 6.9X
pP 45 46.00
KMR 111.48 319 (PKP) 48 36.00 -12.6X
iPP 49 37.00
KHC 111.58 320 Pdiff 44 56.50 4.9X
N 27s 49.00um
E 24s 37.60um
e 48 45.50
e 48 56.50
PP 49 42.60
e 50 32.00
SKS 55 30.00
e 56 32.00
PKKP 59 04.00
LJU 111.65 317 ePdiff44 55.00 3.0X
CEY 111.79 316 e(Pdif44 58.00 5.4X
e 48 23.40
CEY 111.79 316 iPKP 48 50.50 1.3
i 49 01.40
NEW 111.91 41 ePdiff44 53.00 -0.1
NEW 111.91 41 ePKP 48 51.00 1.6
MUD 111.94 328 iPdiff44 57.70 4.8X
0.8s 23.00nm
SGO 112.12 311 ePKP 48 30.00 -20.0X
FRI 112.12 53 ePdiff44 57.00 2.8X
FRI 112.12 53 ePKP 48 57.00 6.9X
RBL 112.22 317 ePdiff45 00.50 5.9X
KBA 112.22 318 ePdiff44 55.00 0.3
ipP 45 45.00
KBA 112.22 318 iPKPd 48 53.40 3.2X
1.3s 278.00nm
iPP 49 35.20
ipPKP 49 41.80
i 50 06.40
TRI 112.25 316 iPdiff44 54.00 -0.6
TRI 112.25 316 iPKP 48 48.80 -1.2
iPP 49 01.60
eSKS 55 23.40

eSKKS 55 47.90
eS 56 40.90
ePPS 59 04.00
eSS 03 40.00
iSSS 07 58.00
BER 112.25 333 iPdiff45 00.00 5.8X
MOX 112.41 322 ePdiff44 58.00 2.8X
3.3s 458.00nm
MOX 112.41 322 iPKPc 48 57.00 6.8X
e 49 22.00
iPP 49 48.00
iSKS 55 35.00
iSKKS 56 35.00
iSP 58 30.00
iPS 59 08.00
i 01 15.00
iSS 05 35.00
e 09 13.00
HAM 112.55 325 iPdiff45 02.00 6.3X
DUI 112.56 312 ePKP 48 39.00 -11.8X
EDM 112.80 35 ePdiff44 56.40 -0.6
EDM 112.80 35 iPKPc 48 52.30 1.3
0.8s 290.00nm
GRF 112.92 321 ePdiff44 58.00 0.5
Z 21s 49.80um 7.1Msz
GRF 112.92 321 ePKP 49 02.00 10.7X
ePP 49 54.00
eS 57 15.00
e 58 32.00
LDM 113.02 40 ePKP 48 52.00 0.4
MNA 113.13 51 ePdiff45 03.00 4.1X
MNA 113.13 51 ePKP 49 00.30 8.0X
CLX 113.21 41 ePKP 48 51.40 -0.8
ISA 113.28 54 ePdiff45 06.00 6.4X
ISA 113.28 54 ePKP 48 53.00 0.5
e 49 52.00
FUR 113.30 319 ePKP 48 51.60 -0.5
0.9s 779.00nm
Z 20s 37.20um 7.0Msz
POI 113.49 313 ePKP 48 50.00 -2.6
CWC 113.49 54 ePdiff45 15.00 14.4X
CWC 113.49 54 ePKP 48 58.00 4.9X
e 49 51.00
GIB 113.52 308 ePKP 48 56.00 3.0X
CTI 113.60 317 ePdiff45 06.00 5.2X
e 48 52.00
MNS 113.72 313 ePdiff45 06.00 4.8X
e 48 52.00
PAS 113.73 56 ePdiff45 06.00 4.5X
1.0s 100.00nm
e 45 54.00
e 48 54.00
e 52 27.00
iS 55 29.00
eS 59 51.00
eS 00 50.00
MWC 113.81 56 ePdiff45 06.00 3.9X
e 46 16.00
MWC 113.81 56 ePKP 48 54.00 0.2
e 49 00.00
e 49 50.00
OGA 113.81 318 iPKPd 48 54.40 1.0
1.0s 500.00nm
RDP 113.82 312 ePKP 48 40.50 -12.9X
RMP 113.82 312 ePdiff45 02.00 0.3
e 49 50.00
e 55 40.00
CLC 113.97 54 ePdiff45 16.00 13.4X
CLC 113.97 54 ePKP 48 55.00 1.1
e 49 00.00
RVR 114.40 56 ePdiff45 10.00 5.5X
RVR 114.40 56 ePKP 48 56.00 1.3
e 49 50.00
FIR 114.43 315 ePdiff45 02.00 -2.3
iPP 49 06.00
iSKS 55 31.00
iS 56 50.00
TNS 114.46 322 ePdiff45 11.80 7.4X
e 48 54.30
SAL 114.47 317 e(Pdif45 09.00 4.5X
e 48 45.00
WIT 114.62 325 ePdiff45 19.00 14.1X
e 48 57.00
WIT 114.62 325 iPKPd 49 07.90 13.5X
ePP 50 03.00
ePPP 52 27.50
ePKKP 59 42.50

EUR 114.62 50 iPdiff45 09.00 3.3X
1.0s 5.77nm
ERC 114.63 308 ePKP 48 55.50 0.6
GSC 114.68 55 ePdiff45 09.00 3.2X
e 45 20.00
e 46 23.00
GSC 114.68 55 ePKP 48 56.00 0.7
e 50 03.00
SAX 114.81 319 ePKP 48 54.80 -0.6
WTS 114.83 324 ePdiff45 12.00 6.1X
e 48 56.50
WTS 114.83 324 iPKP 49 06.80 11.9X
ePP 50 04.00
ePPP 52 18.00
ePKKP 59 24.50
PLM 114.91 57 ePdiff45 15.00 8.0X
PLM 114.91 57 ePKP 48 56.00 0.1
NOP 115.08 54 ePdiff45 11.50 3.9X
NOP 115.08 54 ePKP 48 56.60 0.6
SES 115.09 37 ePdiff45 06.00 -1.2
BUH 115.09 321 ePdiff45 10.80 3.5X
BUH 115.09 321 ePKP 48 54.50 -1.1
BAR 115.16 57 ePdiff45 25.00 17.1X
BAR 115.16 57 ePKP 48 58.00 1.8
e 49 03.00
e 50 10.00
SLE 115.21 320 ePKP 48 54.50 -1.3
ZUL 115.36 319 ePKP 48 55.00 -1.1
GWF 115.38 321 iPdiff45 12.40 3.9X
VG1 115.63 316 e(Pdif45 05.00 -4.6X
VG1 115.63 316 ePKP 48 58.50 1.9
LRM 115.63 43 ePdiff45 11.60 1.6
PRN 115.73 52 ePdiff45 10.00 -0.5
PRN 115.73 52 ePKP 48 56.20 -1.1
DBN 115.73 325 e(Pdif45 10.00 0.1
Z 22s 22.20um 6.7Msz
ePP 49 51.00
e 50 26.00
iPPP 52 18.00
iSKKS 56 51.00
ePS 59 32.00
eSS 06 25.00
eSSS 10 24.00
HPI 115.77 45 ePdiff45 20.00 9.3X
HPI 115.77 45 ePKP 49 00.20 2.8X
CDF 115.78 321 iPKPc 48 57.10 0.1
ENN 115.79 323 ePdiff45 16.50 6.3X
e 48 56.50
ENN 115.79 323 ePKP 49 09.00 12.3X
ePP 50 08.00
ePPP 52 34.00
ePKKP 59 30.00
ECH 115.92 320 ePdiff45 18.40 7.5X
WLF 116.05 322 Pdiff+45 21.00 9.6X
e 49 58.00
S 57 59.00
PKKP 59 36.00
SS 06 24.00
SSP 06 41.00
ORO 116.19 317 e(Pdif45 11.50 -0.8
e 48 56.50
BSF 116.28 320 iPKPc 48 57.10 -0.8
CVF 116.42 314 iPKPc 48 58.40 0.1
0.8s 106.00nm
HAU 116.50 320 iPKPc 48 57.70 -0.5
1.0s 108.00nm
GLA 116.64 57 ePdiff45 21.70 7.2X
UCC 116.70 324 Pdiff+45 21.00 6.8X
UCC 116.70 324 PKP 49 00.70 2.2
e 50 01.00
PP 50 11.60
PPP 52 52.00
e 53 50.00
PKKP 59 37.00
DOU 116.83 323 Pdiff+45 21.00 6.2X
DOU 116.83 323 PKP 48 58.70 0.0
e 49 06.10
e 49 10.70
e 50 09.00
PPP 52 55.00
e 53 54.00
PPS 57 50.00
e 59 02.00
PKKP 59 33.40
AKU 117.29 345 iPKPc 49 00.20 1.1
1.0s 208.00nm
FRF 117.71 316 iPKPc 49 00.20 -0.4

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LMR	117.87	315	iPKPc	49	00.40	-0.5
LRG	117.94	316	iPKPc	49	00.80	-0.3
GDH	118.26	1	ePdiff	45	27.00	6.3X
			i	50	25.00	
FFC	118.28	30	ePdiff	45	22.00	0.8
FFC	118.28	30	ePKP	49	01.00	-0.4
	0.8s	51.00nm				
LOR	118.33	320	iPKPc	49	01.30	-0.4
LBF	118.36	320	iPKPc	49	01.20	-0.6
BDW	118.50	45	ePdiff	45	33.30	10.5X
	1.0s	4.60nm				
BDW	118.50	45	ePKP	49	02.10	-0.4
	0.8s	155.00nm				
GCA	118.52	52	ePKP	49	03.40	0.8
SMF	118.57	320	iPKPc	49	01.70	-0.5
SSB	118.59	318	ePKP	49	01.90	-0.4
SSF	118.63	320	iPKPc	49	02.00	-0.3
EKA	118.66	331	PKP	49	03.00	0.9
	0.7s	22.30nm				
GRC	118.82	321	iPKPc	49	03.10	0.5
			i	50	29.80	
AVF	118.83	320	iPKPc	49	01.90	-0.8
RMU	118.98	52	ePKP	49	04.30	0.8
REY	119.50	345	ePKP	49	04.80	1.4
			i	49	16.60	
MZF	119.54	320	iPKPc	49	03.70	-0.4
	0.8s	54.80nm				
TCF	119.75	320	iPKPc	49	04.20	-0.3
PV10	120.14	50	ePKP	49	06.10	0.3
LSF	120.20	320	iPKPc	49	04.70	-0.6
LDF	120.26	323	iPKPc	49	06.60	1.3
CAF	120.36	318	iPKPc	49	05.70	0.0
FLN	120.40	323	iPKPc	49	06.60	1.0
	1.2s	156.00nm				
PV07	120.42	50	ePKP	49	06.70	0.4
RJF	120.57	319	iPKPc	49	06.00	-0.1
PV06	120.59	50	ePKP	49	07.00	0.4
GRR	120.79	323	iPKPc	49	07.60	1.3
LPO	121.03	318	iPKPc	49	07.10	0.2
LPF	121.06	323	iPKPc	49	06.70	-0.1
MFF	121.12	321	iPKPc	49	06.80	-0.2
LFF	121.23	319	iPKPc	49	07.40	0.1
	1.2s	144.00nm				
DMU	121.27	331	iPKPc	49	06.70	-0.4
	1.0s	1120.00nm				
DLE	121.44	330	iPKPc	49	06.20	-1.2
	1.0s	450.00nm				
DCN	121.77	330	iPKPc	49	09.20	1.2
	0.9s	290.00nm				
RSSD	121.82	42	ePKP	49	08.50	-0.2
ECP	121.97	329	iPKPc	49	09.60	1.2
	2.0s	1140.00nm				
ECB	122.08	329	iPKPc	49	10.40	1.8
	1.7s	585.00nm				
EPF	122.22	317	iPKPc	49	08.90	-0.4
ABA	122.31	309	iPKP	49	10.00	0.4
GOL	122.47	47	ePKP	49	10.20	0.0
	Z 21s	30.00um			6.9Msz	
GLD	122.57	47	ePKP	49	10.80	0.5
	1.3s	460.00nm				
	Z 21s	31.10um			6.9Msz	
EBR	122.92	314	ePKP	49	12.00	1.4
			ePP	50	52.00	
ALQ	123.05	53	ePKP	49	12.00	0.6
	Z 20s	53.20um			7.2Msz	
OFD	123.63	309	iPKP	49	10.00	-2.2
VAL	124.06	330	PKP	49	18.60	6.1X
LGR	124.37	317	ePKP	49	15.00	1.5
			i	49	27.50	
			iPP	51	06.00	
ALM	126.48	311	iPKPc	49	16.90	-0.8
	1.8s	22.20nm				
			iPP	49	20.00	
			iS	51	23.30	
TOL	126.49	315	ePKP	49	16.00	-1.7
CRT	127.20	312	iPKP	49	19.70	0.5
			i	49	23.30	
ALR	127.23	310	iPKP	49	31.00	11.9X
STS	128.14	320	ePKP	49	21.00	0.3
			eSn	52	26.00	
LHC	128.38	31	ePKP	49	11.00	-9.9X
	0.9s	453.00nm				
PTO	129.04	318	PKP	49	22.50	0.1
RRO	129.17	50	ePKP	49	28.80	5.9X
			e	49	33.80	
			i	52	38.40	
SFS	129.41	312	iPKPc	49	30.00	6.7X
			iPP	51	57.00	
			iPKS	53	04.00	
			ePPP	55	28.00	
			i	04	14.00	
			iSS	09	00.00	
			i	16	05.00	
JCT	129.68	56	ePKP	49	04.50	-19.6X
	Z 20s	67.40um			7.3Msz	
IFR	129.68	308	iPKP	49	18.00	-6.2X
OCO	129.82	49	ePKP	49	27.00	2.9X
			e	52	32.40	
			i	52	37.60	
LIS	130.56	316	ePKP	49	26.00	0.6
TUL	130.92	48	iPKP+	49	27.40	1.2
	0.8s	337.00nm				
	Z 21s	27.80um			6.9Msz	
			e	52	34.90	
SCH	131.27	11	ePKP	49	17.00	-9.3X
	0.7s	198.00nm				
			pP	52	34.00	
RLO	131.37	48	e(PKP)	49	27.60	0.5
GBO	131.39	48	e(PKP)	49	28.90	1.8
ACX	132.26	74	ePKP	49	21.20	-8.0X
III	132.48	72	ePKP	49	21.40	-8.5X
IIC	132.49	70	ePKP	49	28.20	-1.9
TAC	132.60	71	iPKP	49	27.00	-3.2X
IIP	132.87	71	ePKP	49	22.80	-8.0X
FVM	133.76	43	ePKP	49	19.30	-12.2X
	1.0s	490.00nm				
	Z 19s	5.30um			6.3Msz	
VBA	133.77	169	ePKP	49	19.00	-12.6X
			e	52	51.00	
VHO	135.20	73	iPKP	49	25.00	-10.1X
TACH	135.30	157	iPKP	49	23.70	-10.9X
BACH	135.74	157	ePKP	49	26.00	-9.5X
FCH	135.83	158	iPKPc	49	28.00	-8.1X
PEL	135.85	157	iPKPc	49	23.90	-11.8X
OTT	136.92	25	ePKP	49	25.50	-11.7X
	1.0s	312.00nm				
LPA	137.49	173	iPKPc-	49	36.00	-2.7X
	0.8s	597.00nm				
	Z 20s	92.90um			7.5Msz	
MNT	137.67	23	ePKP	49	29.00	-9.7X
	1.6s	420.00nm				
CEN	137.97	158	ePKP	49	27.00	-12.8X
RSNY	138.10	24	ePKP	49	29.30	-10.2X
	0.7s	93.30nm				
BNH	139.32	21	ePKP	49	36.00	-5.7X
STJ	140.01	1	ePKP	49	35.00	-7.8X
	0.9s	287.00nm				
TEN	140.43	306	iPKP	49	45.20	1.0
			iPP	53	01.20	
			iSKS	56	19.50	
JSC	141.96	41	ePKP	49	41.00	-5.8X
LPS	142.78	76	ePKP	49	44.00	-4.8X
SSS	142.81	77	ePKP	49	51.40	2.6X
CAC	145.84	151	iPKP	49	55.50	1.5
SOR	146.39	60	iPKP+	49	55.00	0.4
			i	50	41.00	
YJA	147.68	156	ePKPc	49	58.40	1.2
SJS	148.09	83	ePKP	50	00.90	3.2X
LM2	148.31	128	ePKP	50	00.00	2.2
NNA	148.54	128	iPKP	49	58.50	0.2
	0.4s	21.20nm				
			e	50	02.50	
			eS	52	06.00	
BMA	149.11	194	ePKP	50	00.90	1.9
			e	50	04.00	
			i	50	06.30	
LPB	151.27	146	PKPc+	50	04.20	1.4
	Z 19s	6.88um			6.5Msz	
			i	50	10.30	
			SS	06	13.00	
ZOBO	151.47	146	iPKP	50	04.10	0.8
UPA	152.57	85	iPKPd	50	04.00	-0.2
	1.0s	60.00nm				
	Z 20s	4.61um			6.3Msz	
			i	52	11.80	
			i	55	31.00	
			i	01	18.00	
PSO	153.87	103	ePKP	50	07.50	0.9
BAO	156.75	189	PKP	50	10.00	0.0
BOG	157.75	96	iPKP	50	12.00	0.4
BOCO	157.76	96	iPKP	50	12.00	0.3
BMG	158.95	90	ePKP	50	25.00	12.4X
ITR	159.06	220	ePKP	50	12.80	0.2
SOB1	160.17	214	ePKP	50	14.50	0.7
LGN	160.64	81	ePKP	50	24.30	10.1X
	0.4s	281.00nm				
UAV	160.87	85	ePKP	50	24.20	9.5X
SDV	161.36	84	ePKP	50	15.80	0.6
TOV	162.12	81	iPKPd	50	16.50	0.7
	1.0s	97.50nm				
SJG	162.51	51	iPKPc	50	15.60	-0.4
	0.9s	303.00nm				
	Z 19s	34.70um				
CAR	164.81	77	ePKP	50	20.00	1.6
BPA	166.35	45	ePKP	50	18.00	-1.5
SEG	167.03	46	ePKP	50	19.50	-0.4
PAG	167.15	48	ePKP	50	20.00	-0.1
MGG	167.49	47	ePKP	50	20.00	-0.3
MDN	167.81	49	ePKP	50	20.00	-0.5
FDF	168.36	51	ePKPc	50	21.50	0.6
GUV	168.86	87	ePKP	50	21.20	-0.1
ATB	169.33	178	PKP	50	22.00	0.5
TRN	170.06	71	iPKPc	50	22.50	0.6
	1.2s	237.00nm				
	S.D. = 1.2 on 414 of 588 obs.					

NOV 30, 1983 17h 46m 00.76± 0.08s
6.821 S ± 2.0km 72.107 E ± 1.6km
DEPTH = 10.0km (geophysicist)
6.7mb (91 obs.) 7.5Msz (22 obs.)
CHAGOS ARCHIPELAGO REGION (426)
Some damage (VI) to buildings ond piers on Diego Garcio. Five foot rise in wove height in the lagoon ond significont wove domage near the southeastern tip of the island. Forty cm. tsunami at Victorio, Seychelles. Large zone of discolored seo water observed 35 to 40 nautical miles northwest of Diego Garcio.

KOD	17.76	18	iPc	50	12.00	1.8
GBA	20.97	15	Pd	50	47.10	0.5
	1.0s	252.00nm			5.5mb	X
HYB	24.91	15	iPd	51	25.50	0.0
			eS	56	09.50	
POO	25.25	4	iPd	51	29.70	1.0
AVY	26.59	241	iPc	51	42.80	1.4
TSI	28.33	70	ePd	52	01.00	4.0X
PSI	28.39	71	ePc	51	58.50	0.9
	0.8s	72.50nm			5.5mb	X
PPI	28.92	79	ePc	52	03.50	1.2
			e(S)	55	21.00	
IPM	31.01	69	ePd	52	21.90	0.9
	0.7s	69.40nm			5.7mb	
			e	52	26.10	
			e	52	40.00	
			e	53	11.10	
			e	53	39.90	
			e	54	35.00	
			e	55	52.00	
KLM	31.09	72	eP	52	23.20	1.5
KGM	32.37	75	eP	52	33.50	0.6
			e	54	46.10	
NPA	33.25	253	eP	52	42.00	1.4
			e	54	00.00	
			e	55	01.00	
			e	55	33.00	
			eS	59	15.00	
			e	04	06.00	
NNT	33.55	55	eP	53	00.00	16.8X
KHT	33.92	51	eP	52	53.50	7.1X
NAI	35.63	277	iPd	53	03.00	1.7
	1.0s	120.00nm			5.7mb	
			iS	53	04.00	
NST	35.64	51	ePn	53	01.00	-0.1
BDT	35.75	48	eP	53	02.00	0.0
	1.5s	2170.00nm			6.8mb	
PCT	36.07	54	eP	53	04.00	-0.7
DMN	36.46	20	iPd	53	09.30	1.1
PKI	36.53	20	iPd	53	09.50	0.6
KKN	36.69	20	iPd	53	10.90	0.8
CHG	36.73	46	iPd	53	11.50	1.2
	1.1s	127.00nm			5.6mb	X
			eS	59	14.00	
AAE	36.77	295	iP	53	12.50	1.4
MTD	40.80	252	iPd	53	45.00	0.6
SHI	40.85	334	eP	53	45.00	0.3
KRI	42.68	253	iPd	53	59.00	-0.9
KMI	43.55	42	iPd	54	07.50	0.5

30d 17h

	E	15s	223.00um							iS	02	28.00			ISI		59.43	57	eP	56	08.00	1.7
			pP	54	22.00	56kmX	PRNI	51.30	318	iP	55	09.00	1.7		HHC		59.68	34	Pd	56	08.00	0.1
			PP	55	51.00		GRS	51.89	335	iPd	55	12.00	0.1		YER		59.89	320	iPd	56	08.50	-0.9
			PcP	55	54.00			1.8s	500.00nm			6.1mb			ALT		59.96	323	iPd	56	09.50	-0.4
			S	00	41.00					ePcP	56	21.80			TIA		60.11	41	Pc	56	10.40	-0.4
			iS	00	45.00					ePS	02	44.00							PP	58	26.00	
KHO	44.08	359	P	54	11.60	0.7				eSPP	02	50.00							S	04	23.00	
BUL	44.17	248	iPd	54	11.70	-0.3	KLG	51.92	124	eP	55	11.00	-1.1		SSE		60.18	48	Pd-	56	10.20	-1.1
	1.0s	665.00nm			6.4mb			1.0s	720.00nm			6.6mb					1.8s	202.00nm			6.0mb	
MHI	44.50	345	iPd-	54	14.60	0.3	SHE	51.93	337	P	55	13.00	1.1			Z	15s	21.40um			6.4MszX	
	2.4s	4280.00nm			6.9mb		LZH	52.06	33	iPd-	55	12.00	-1.2			N	15s	107.00um				
			e	56	09.00					pP	55	28.50	64kmX			E	16s	32.00um				
			eSn	01	02.00					PP	57	13.00							pP	56	26.00	59kmX
KUL	44.54	357	P	54	14.80	0.3				S	02	22.00							PP	58	28.00	
NAU	44.60	115	iPd	54	25.10	9.9X				sS	02	39.00							PPP	59	59.00	
BKB	44.93	85	ePc	54	28.70	10.7X	JER	52.09	320	iP	55	14.80	1.4						PcS	00	58.00	
	1.2s	1270.00nm					WMQ	52.34	14	iPd	55	14.60	-0.5						S	04	18.00	
DSH	45.25	356	P	54	21.00	0.7				PS	02	51.00							SS	08	23.00	
SLR	45.80	241	iPd	54	24.50	-0.5	PGP	52.53	67	ePd	55	18.00	1.2		ANN		60.22	332	iPd	56	09.00	-2.3
	1.7s	4850.00nm			7.2mb			1.5s	1040.00nm			6.5mb							iS	04	23.00	
	Z 23s	105.00um			6.7MszX		GTA	52.66	27	iPd	55	16.80	-0.9		NPS		60.55	317	iPd	56	14.00	0.2
KKM	45.83	75	ePd	54	26.80	1.5				PS	02	51.50			GPA		60.64	324	iPd	56	13.20	-1.2
	1.0s	136.00nm			5.9mb		HRI	52.74	321	iP	55	19.50	1.2		KDE		60.66	326	iP	56	12.00	-2.5
			e	54	46.00		KRV	52.85	335	iPd	55	18.00	-0.9		MAW		61.02	184	ePd	56	17.00	0.6
			e	55	00.00					iSPP	03	01.00				Z	16s	410.00um			7.7MszX	
BPI	46.15	240	iPd	54	27.00	-0.7	MAN	53.04	66	P	55	23.00	2.4		ELT		61.03	10	iPd	56	15.40	-1.3
KSH	46.18	4	iPd	54	28.00	0.4	BAG	53.22	64	iPd-	55	21.00	-1.2				2.0s	2780.00nm			7.0mb	
ASH	46.35	345	P	54	29.00	0.1	ERE	53.25	334	P	55	22.00	0.1						iS	04	37.10	
VAN	46.41	345	P	54	29.00	-0.4	MNI	53.26	83	eP	55	24.50	2.2		UER		61.14	15	iPd	56	16.00	-1.5
SAM	46.50	355	P	54	29.50	-0.6		1.7s	1030.00nm			6.5mb					2.5s	4000.00nm			7.1mb	
TEH	46.61	337	eP	54	31.00	-0.1	HLW	53.49	315	iPd	55	24.00	0.3						iS	04	43.50	
KSR	47.04	241	iPd	54	32.70	-2.1	XAN	53.53	38	iPd	55	21.50	-2.5		DST		61.20	323	iPd	56	16.60	-1.6
GYA	47.09	44	Pd	54	33.00	-2.1				PcP	56	27.00			IZM		61.30	321	iPd	56	18.90	0.0
MKS	47.11	91	iPd	54	38.00	2.7				PP	57	22.00			ASPA		61.48	113	eP	56	18.00	-2.4
			iS	55	10.60		SUR	53.97	235	iPd	55	27.60	0.1		WRA		61.63	109	Pd	56	20.60	-0.8
SEK	47.13	237	iPd	54	35.50	0.0		1.0s	860.00nm			6.7mb					0.6s	155.00nm			6.3mb	
KER	47.29	332	eP	54	37.50	1.0	PIP	53.98	62	ePc	55	28.00	0.5		WB2		61.64	109	iPd	56	20.50	-1.0
ANR	47.34	0	P	54	36.00	-0.7	LEN	54.01	334	iPd	55	28.00	0.5		SIM		61.79	330	iPd	56	22.00	-0.1
BFS	47.42	240	iPd	54	35.20	-2.6				iPcP	56	38.00				Z	18s	110.00um			7.1Msz	
BHD	47.78	328	ePc	54	42.50	2.3				iS	03	08.00				N	20s	288.00um				
			iPP	56	51.00		CCP	54.32	72	iPc	55	30.50	0.5			E	18s	143.00um				
			ePcS	58	29.50					iS	55	57.70							ePP	58	38.00	
			i	00	12.00		MTA	54.37	335	iPd	55	29.40	-0.5						iS	04	42.00	
			iS	01	49.00					iS	03	10.40			BJI		61.82	37	Pd-	56	22.50	0.1
			e	03	01.00					iSPP	03	22.40							pP	56	29.00	21kmX
			e	04	17.00		CGP	54.58	75	eP	55	30.00	-1.9						PP	58	44.00	
			e	09	35.00					eS	56	06.00							SS	08	57.00	
TAS	47.98	357	iPd	54	42.00	0.3	BNG	54.62	280	iPd	55	31.00	-1.3		ISK		61.87	324	eP	56	20.20	-2.4
	2.3s	*******nm			7.8mb	X		1.4s	295.00nm			6.1mb			EDC		62.12	323	iPd	56	23.40	-1.0
	N 13s	540.00um					CVP	54.80	63	ePc	55	33.50	0.0		NVS		62.20	7	P	56	21.50	-3.1X
	E 14s	552.00um								eS	56	03.00			PRK		62.43	321	eP	56	26.50	0.1
			iS	01	36.00		WHN	54.93	45	Pc	55	34.00	-0.3		EZN		62.74	322	iPc	56	28.10	-0.3
			eScS	04	34.00		BKR	54.94	334	iP	55	33.60	-0.8		ZAK		63.05	22	iPd	56	29.00	-1.2
BAL	47.98	125	eP	54	41.00	-0.9		2.2s	930.00nm			6.4mb					3.0s	5430.00nm			7.2mb	
MUN	48.07	127	eP	54	42.00	-0.6		E 19s	40.90um										eS	04	56.00	
KAT	48 08	343	iPd	54	41.50	-1.0				iS	03	19.60			NAH		63.10	56	eP	56	34.00	2.9
			eS	01	44.00		LGP	54.98	69	ePd	55	38.50	3.6X		MOY		63.32	20	eP	56	31.10	-0.9
			iSPP	01	55.00			1.8s	46.70nm			5.2mb	X						eSP	05	14.80	
NRN	48.15	4	P	54	43.00	-0.4	DAV	55.10	77	iP-	55	33.00	-2.8		ATH		63.33	319	iPd	56	31.80	-0.6
CD2	48.22	37	iPd	54	43.00	-0.8	QZH	55.16	53	Pd	55	36.00	-0.1						eS	05	24.00	
			iS	01	47.00					iS	03	22.00			ARU		63.97	352	ePd	56	35.00	-1.3
BLF	48.58	237	iPd	54	46.30	-0.5				SS	06	58.00				Z	18s	261.00um			7.5Msz	
SWZ	48.75	240	iPd	54	47.00	-1.1	WBN	55.22	117	iPd	55	34.30	-2.3			N	18s	197.00um				
KLB	49.17	126	eP	54	49.50	-1.6	GRO	55.39	337	P	55	38.00	0.6			E	16s	260.00um				
NWAO	49.23	128	eP	54	50.00	-1.5	CER	55.47	234	iPd	55	37.50	-0.8						eS	04	07.00	
PRZ	49.40	6	P	54	52.50	-0.3	PLP	55.56	72	ePd	55	38.00	-1.1						eSP	05	27.00	
FRU	49.47	2	iPd	54	52.80	-0.4				iS	56	03.00							ePPS	05	43.00	
	2.5s	9460.00nm			7.3mb		TUH	55.56	234	iPd	55	38.80	-0.1		PSN		64.04	326	iPd	56	37.00	0.1
	Z 14s	310.00um			7.5MszX		CNP	55.65	70	ePc	55	44.00	4.3X		SVE		64.10	353	iPd	56	35.50	-1.7
	N 12s	480.00um					AAI	55.91	90	ePc	55	43.60	1.9				3.0s	*******nm			7.6mb	
	E 14s	280.00um						1.1s	284.00nm			6.2mb							iPcP	57	10.00	
			iS	02	04.00		PYA	57.01	335	P	55	49.00	-0.1						eS	05	12.00	
			iSPP	02	15.00		SEM	57.43	6	iPd	55	50.50	-1.4		JMB		64.19	324	iPc	56	38.00	0.0
RKG	49.49	130	eP	54	56.00	2.5		1.9s	5130.00nm			7.2mb			KDZ		64.42	323	iPd	56	39.00	-0.5
GRM	49.69	232	iPd	54	53.50	-1.6				eSP	03	56.10			DIM		64.52	323	eP	56	39.00	-1.1
	1.0s	1040.00nm			6.8mb		ANP	57.62	55	iP-	55	52.00	-1.8		DL2		64.58	41	iPd	56	39.00	-1.6
MCO	49.76	54	iP	54	58.90	3.2X				eS	58	08.00							S	05	21.00	
AAA	50.05	5	P	54	57.20	-0.5	TIY	58.09	37	iPd	55	55.50	-1.4		TLB		64.71	327	iPd	56	41.00	-0.3
TLG	50.08	5	P	54	57.00	-0.9				PcP	56	51.00			IRK		64.96	21	P	56	42.00	-0.8
GZH	50.09	52	iPd	54	58.00	-0.2				iS	03	56.00			CFR		65.03	327	iPd	56	43.00	-0.3
			S	02	00.00		SOC	58.11	333	P	55	57.00	0.3		MMB		65.37	322	eP	56	45.00	-0.7
HKC	50.34	54	iP	55	01.00	0.9	MTN	58.36	101	eP	55	57.00	-2.0		PVL		65.43	324	iPd	56	46.00	0.1
			iS	01	32.00		ELL	58.63	321	iPd	55	59.50	-1.2		VLS		65.52	317	eP	56	45.80	-0.9
TAB	50.70	334	iP-	55	03.60	0.8	BCK	58.65	322	iP	55	59.10	-1.7		CGN		65.57	325	eP	56	47.00	0.2
MSL	50.84	330	iPc	55	04.00	0.3	BTO	58.66	33	iPd	55	59.50	-1.3		BUC1		65.67	325	ePd	56	46.00	-1.4
KUPT	51.00	98	eP	55	07.40	2.1				S	04	01.00			KIS		65.86	329	P	56	47.70	-0.9
BAK	51.23	338	eP	55	12.00	5.4X	NJ2	58.97	46	iPd	56	01.50	-1.5		ISR		65.87	326	ePd	56	49.50	0.6

30d 17h

KZN		65.88	320	iPd	56	48.50	-0.5	BFD		70.33	127	eP	57	15.00	-1.9					iPcP	57	56.00							
MVI		65.91	58	eP	56	55.00	5.6X	SHK		70.35	50	eP	57	17.50	0.5	RBL		74.15	322	eP	57	39.50	0.1						
PPE		65.98	328	ePc	56	49.00	-0.5	ERC		71.01	314	eP	57	21.50	0.6					ePP	00	30.50							
VRI		66.24	327	iPc	56	51.00	-0.1	MTS		71.01	49	ePd	57	27.00	6.0X	PUL		74.16	339	iPd	57	38.00	-1.0						
VTS		66.27	323	iPd	56	50.00	-1.4					eS	06	46.00				1.8s	3500.00nm				7.1mb						
CLI		66.38	328	iPc	56	52.00	0.0	JOS		71.19	327	iPd	57	20.40	-1.4		Z	23s	260.00um				7.5MszX						
MLR		66.43	326	iPc	56	53.00	0.5			1.4s	370.00nm			6.3mb			N	23s	230.00um										
ISO		66.54	110	eP	56	50.00	-3.6X	DUI		71.33	318	eP	57	23.50	0.7		E	23s	160.00um										
IAS		66.65	329	eP	56	54.00	0.3					ePP	00	16.00						iPcP	57	54.00							
FKJ		66.68	50	eP	57	01.00	6.9X	OKA		71.35	50	eP	57	26.00	3.0X					ePP	00	29.00							
				eS	05	57.00						e	07	28.00						iPPP	02	17.00							
CMP		66.79	326	iPd	56	50.00	-4.7X	SPC		71.74	327	eP	57	24.40	-0.9					iS	07	10.00							
DRA		66.87	325	eP	56	55.00	-0.2		Z	18s	351.00um			7.7Msz		PMG		74.22	98	iPd	57	39.20	-1.1						
OHR		66.93	320	iP	56	53.70	-2.0					iPP	00	21.70		HMM		74.28	51	eP	57	42.00	1.7						
				iPS	06	14.20						e	25	31.00						e	07	24.00							
ADE		66.97	125	eP	56	54.50	-1.7	HIM		72.01	50	eP	57	29.00	2.0	LAT		74.30	95	eP	57	40.50	-0.3						
SKO		67.00	321	iPd	56	54.00	-2.1					eS	06	51.00		FIR		74.39	319	eP	57	41.00	0.3						
		1.5s	400.00nm			6.4mb		SRO		72.05	325	eP	57	25.50	-1.4					iPP	00	40.00							
				i	56	59.00		WKY		72.14	51	eP	57	25.00	-2.7					iS	07	08.00							
				i	57	02.00						eS	07	05.00		KBA		74.58	323	iPd	57	41.20	-0.8						
				iPP	59	37.00		AOU		72.35	318	iPd	57	29.00	0.1			2.7s	6230.00nm				7.2mb						
				iPPP	01	01.00		KRA		72.40	328	ePd	57	27.60	-1.4					i	57	45.60							
				iS	05	44.00				1.8s	1630.00nm			6.8mb						i	57	49.50							
				iPS	06	17.00			Z	18s	160.00um			7.3Msz		KMR		74.59	324	iP-	57	41.30	-0.5						
COZ		67.21	325	ePc	56	56.00	-1.6					e	57	30.10		IID		74.64	50	eP	57	49.00	6.6X						
NGS		67.48	51	eP	56	56.00	-3.3X					i	57	34.10						S	07	26.50							
				eS	06	05.00						i	57	42.30		YOU		74.86	124	eP	57	42.90	-0.8						
SEO		67.51	45	iPd-	57	01.90	2.6					i	57	46.30		GUMO		75.01	74	eP-	57	43.00	-1.8						
		1.6s	3360.00nm			7.3mb						i	59	59.00				1.5s	1410.00nm				6.8mb						
	Z	17s	476.00um			7.8MszX						i	02	13.00		GUA		75.04	74	eP-	57	43.00	-2.0						
	N	17s	246.00um									iS	06	50.00				0.9s	840.00nm				6.8mb						
	E	17s	178.00um					RDP		72.54	318	eP	57	29.00	-1.1		Z	18s	84.50um				7.1Msz						
				eS	05	56.80						ePP	00	19.50						PcP	58	00.30							
TAJ		67.56	53	eP	57	05.00	5.2X	RMP		72.57	318	iPd	57	29.50	-0.7					e(S)	07	25.00							
				eS	06	35.00						iPP	00	01.90		DRV		75.11	158	eP	57	43.50	-1.0						
IZU		67.67	49	eP	57	05.00	4.6X					iS	06	54.00		CTI		75.15	321	eP	57	44.50	-0.7						
				eS	06	09.00						iPS	07	32.00		BHG		75.17	323	iPd	57	44.60	-0.6						
KUM		68.16	51	eP	57	08.00	4.5X	CMS		72.60	121	eP	57	29.00	-1.6	LMG		75.24	97	eP	57	45.00	-1.4						
				eS	06	12.00		MDJ		72.62	39	Pd	57	30.00	-0.4	MAT		75.28	50	iPc	57	46.20	0.1						
MYZ		68.36	52	eP	57	06.00	1.2	OSK		72.66	51	eP	57	33.00	2.1			1.5s	225.00nm				6.0mb						
				eS	06	12.00						eS	06	55.10						eS	07	20.00							
DEV		68.36	325	ePc	57	05.00	0.5	TOO		72.71	127	iPd-	57	30.20	-1.0	PRU		75.30	326	Pd	57	45.10	-0.8						
LCI		68.38	318	iPc	57	04.50	-0.2	POI		72.76	318	iPd	57	31.50	0.3			2.5s	4440.00nm				7.1mb						
				i	10	30.50		CTA		72.83	109	iPd	57	31.00	-1.1					e	58	25.50							
SSR		68.44	324	iP	57	05.00	0.0			1.0s	123.00nm			5.9mb						PP	00	35.00							
OBN		68.46	339	iPd	57	03.60	-1.3					i	57	35.00						S	07	24.00							
		1.2s	2210.00nm			7.2mb						i	57	39.50		WAM		75.34	126	eP	57	47.30	0.9						
	Z	20s	302.00um			7.5Msz						e	58	57.00		CAN		75.40	125	eP	57	46.10	-0.8						
	N	20s	210.00um									i	59	29.00		KHC		75.43	325	iPd	57	45.50	-1.2						
	E	18s	260.00um									i	01	21.00				1.0s	496.00nm				6.5mb						
				iPP	59	38.00						e	02	07.00						e	58	27.00							
				iS	06	04.00		CTAO		72.83	109	iP	57	31.00	-1.1	CVF		75.47	317	iPc	57	46.40	-0.6						
				iSS	10	28.00		MNS		72.84	318	iPd	57	32.00	0.3			1.1s	545.00nm				6.5mb						
JAY		68.46	90	iPd	57	08.00	2.1	KYO		72.86	50	eP	57	32.00	0.0	CBI		75.62	60	eP	57	50.00	1.8						
CJR		68.46	326	eP	57	04.30	-0.9					eS	07	08.00		SAL		75.66	320	iPd	57	48.20	0.3						
				e	25	22.30		BOD		72.88	22	iPd	57	29.30	-2.4	OYM		75.70	51	eP	57	50.20	1.7						
MOS		68.55	340	P	57	04.00	-1.5			1.0s	440.00nm			6.5mb		SRY		75.78	51	eP	57	48.00	-0.9						
TTG		68.61	321	iPd	57	05.60	-0.5	TUP		72.90	27	iPd	57	30.10	-1.7	WET		75.84	324	iPd	57	47.70	-1.3						
				PcP	57	25.00				2.0s	1010.00nm			6.6mb						eS	07	29.00							
				PPP	01	21.50		ZST		72.94	325	eP	57	31.80	-0.4	DDR		75.85	50	eP	57	49.40	0.0						
				eS	06	11.50						e	00	23.60		OGA		75.90	322	iPd	57	49.10	-0.5						
SHN		68.80	50	ePd	57	08.00	0.5	WAR		73.11	330	eP-	57	32.00	-1.1	BRG		76.08	326	iPd-	57	50.00	-0.2						
				eS	06	17.00						e	57	45.00				2.0s	2650.00nm				7.0mb						
MSI		68.99	315	eP	57	17.00	8.4X					e	01	15.00			Z	18s	170.00um				7.4Msz						
STK		69.02	121	eP	57	07.00	-1.9					e	07	32.00						i	57	55.00							
OIT		69.03	51	eP	57	03.00	-5.9X	CEY		73.29	322	iPd	57	34.10	-0.2					eS	07	32.00							
				eS	06	05.00						i	57	36.00						eP'P'	25	18.50							
BRT		69.14	318	iPd	57	10.00	0 6	HIK		73.35	50	eP	57	35.00	0.2	GAP		76.15	322	iPd	57	50.60	-0.2						
ORI		69.24	317	iPd	57	11.00	0.9					eS	07	13.00		VG1		76.29	319	eP	57	52.00	0.5						
				ipP	57	31.50	78kmX	LJU		73.37	322	iPd	57	34.80	0.0	KYS		76.32	51	eP	57	53.30	1.3						
				iPP	00	08.50				0.6s	3.90nm			4.7mb X		FUR		76.33	323	iPd	57	51.10	-0.7						
CN2		69.64	38	iPd	57	09.40	-3.0X					i	57	37.50			Z	18s	161.00um				7.4Msz						
				PP	59	49.00						ePP	00	19.00						eS	07	39.00							
CEI		69.67	327	eP	57	14.00	1.5					eS	06	55.00		OSS		76.36	321	ePd	57	52.50	0.3						
ASZ		69.91	52	eP	57	14.00	-0.3	VKA		73.42	325	ePd	57	34.00	-1.0	TSK		76.62	50	eP	57	53.50	-0.1						
				eS	06	29.00						i	57	38.80		VDL		76.70	321	ePd	57	54.00	-0.1						
GIB		69.97	314	eP	57	15.00	0.3					ipP	57	43.50	31kmX	NUR		76.72	338	iPd	57	53.10	-0.5						
HMD		70.04	49	eP	57	16.00	1.0					isP	57	49.00				1.2s	815.00nm				6.7mb						
				e	06	32.00		TRI		73.68	322	iPd	57	35.60	-0.9		Z	16s	234.00um				7.6MszX						
LVV		70.13	329	P	57	15.00	-0.3					iPP	00	26.90						i	58	02.20							
SGO		70.25	317	iPd	57	16.00	-0.2					ePPP	02	07.00						eS	07	40.00							
				iPP	59	59.50						eS	06	56.00		CLL		76.81	326	iPd	57	54.70	0.4						
UZH		70.31	327	iPd	57	16.00	-0.4					eSP	07	33.00				2.4s	5400.00nm				7.2mb						
	Z	17s	210.00um			7.5MszX						eSS	12	00.00						eS	07	41.00							
				iPcP	57	31.00						eSSS	15	42.00						eSS	12	40.00							
				iPP	59	54.00		GIF		73.79	50	eP	57	39.00	1.6					P'P'	25	22.00							
				iS	06	26.00		NVL		74.07	197	iP	57	40.00	1.6	NRI		76.85	6	iPd	57	52.90	-1.3						

	1.5s	1400.00nm			6.8mb
			iS	07 47.00	
TMA	76.91	320	ePd	57 54.50	-0.8
HOF	76.96	325	iPd	57 55.00	-0.3
GRF	77.05	324	iPd	57 55.50	-0.3
	1.5s	381.00nm			6.3mb
	Z 22s	170.00um			7.3Msz
			e	57 59.00	
			e	58 11.00	
			e	58 28.00	
			eS	08 04.00	
			eSS	12 53.00	
SAX	77.10	322	ePd	57 56.40	0.0
RIV	77.15	123	iPd	58 00.90	4.3X
BRN	77.24	327	iPd	57 57.20	0.5
MOX	77.27	325	iPd-	57 57.00	0.1
	2.6s	8000.00nm			7.3mb
	Z 20s	1780.00um			8.4Msz
	N 21s	126.00um			
	E 21s	95.80um			
			i	58 12.00	
			iPP	00 52.00	
			iS	07 45.00	
			iSS	12 36.00	
			eP'P'	25 22.00	
ORO	77.29	320	iPd	57 56.50	-0.8
FRF	77.36	317	iPc	57 57.80	0.2
	0.9s	658.00nm			6.7mb
LMR	77.37	317	eP	57 57.90	0.3
	1.2s	468.00nm			6.5mb
YAM	77.46	49	eP	58 01.00	2.8
MMK	77.47	320	ePd	57 58.50	0.1
LRG	77.51	317	iPc	57 59.00	0.6
	1.1s	567.00nm			6.6mb
ABA	77.62	310	iP	57 58.00	-1.2
SUF	77.68	340	iP	57 57.60	-1.3
	0.9s	296.00nm			6.4mb
COO	77.78	120	eP	57 58.00	-2.3
KIC	77.78	278	iP	58 00.10	-0.4
ZUL	77.79	322	ePd	58 00.00	0.1
SLE	77.84	322	ePd	58 00.00	-0.2
KJF	78.20	342	iPd-	58 01.20	-0.6
	1.2s	1010.00nm			6.8mb
			i	58 09.80	
			eS	08 08.00	
ISN	78.23	49	eP	58 05.00	2.6
			eS	08 04.00	
BUH	78.38	323	ePd	58 02.60	-0.5
KVG	78.47	91	eP	58 05.00	0.7
BAF	78.79	321	iPd	58 04.40	-1.1
ECH	78.84	322	iPd	58 04.80	-0.9
CDF	78.85	322	iPc	58 05.50	-0.3
	1.3s	1000.00nm			6.7mb
GWF	78.87	323	iPd	58 05.40	-0.4
TNS	78.89	324	iPd	58 05.70	-0.2
			ePcP	58 33.30	
			eS	08 15.00	
			eSS	13 20.00	
SUT	78.91	44	eP	58 13.00	7.0X
			e	08 10.00	
BSF	78.92	321	eP	58 05.60	-0.6
	1.1s	643.00nm			6.6mb
HAK	78.94	45	eP	58 07.00	0.8
			e	08 08.00	
UPP	79.09	335	iP	58 06.50	-0.2
			iS	08 03.00	
MIY	79.10	48	eP	58 10.00	2.8
			S	08 13.40	
APA	79.14	346	iPd	58 05.80	-1.0
	Z 19s	420.00um			7.8Msz
			iPcP	58 10.80	
			iPPP	03 02.00	
			iS	08 05.00	
RLA	79.15	308	iP	58 10.00	2.4
COP	79.24	330	iPd	58 08.20	0.7
	1.0s	240.00nm			6.2mb
			i	01 14.00	
			iS	08 00.00	
HAU	79.26	321	eP	58 07.50	-0.4
	1.2s	558.00nm			6.5mb
SSB	79.40	318	iPd	58 09.40	0.6
HAM	79.48	327	iPd	58 09.90	1.0
RAB	79.66	93	iPd-	58 09.00	-1.8
SAP	79.75	44	eP	58 14.00	3.4X
			eS	08 17.00	
WLF	80.02	323	P-	58 20.00	8.1X
			S	08 18.00	
SMF	80.34	320	eP	58 13.50	-0.2
	1.1s	469.00nm			6 4mb
LBF	80.37	320	iPc	58 13.90	-0.1
	1.4s	1070.00nm			6.6mb
LOR	80.55	320	iPc	58 15.10	0.3
	2.0s	2300.00nm			6.8mb
WTS	80.57	325	iPd	58 16.10	1.3
	2.2s	2150.00nm			6.8mb
			ePP	01 18.00	
			eP'P'	16 09.00	
ENN	80.59	324	iPd	58 15.70	0.8
	2.3s	1050.00nm			6.4mb
			i	58 20.10	
			ePP	01 23.50	
SSF	80.70	320	iPc	58 15.80	0.2
	0.8s	735.00nm			6.7mb
AVF	80.70	320	eP	58 15.50	-0.1
	1.5s	752.00nm			6.5mb
EBR	80.74	313	eP	58 15.00	-0.9
			e	08 39.00	
SOD	80.75	344	iP	58 15.60	0.1
			i	58 24.80	
ALI	80.76	311	iP+	58 16.50	0.4
			eS	09 04.50	
HFS	80.90	334	eP	58 16.20	-0.2
	0.8s	136.00nm			6.0mb
	Z 25s	448.00um			7.7MszX
CAF	80.92	317	eP	58 17.90	1.0
	1.4s	735.00nm			6.5mb
WIT	80.98	326	ePd	58 19.00	2.1
MZF	81.01	319	eP	58 17.70	0.4
	1.3s	607.00nm			6.5mb
GRC	81.06	320	iPc	58 18.40	0.9
DOU	81.12	323	P	58 18.10	0.4
	0.8s	234.00nm			6.3mb
			e	01 36.00	
			S	08 30.00	
MUD	81.22	330	iPd	58 19.90	1.8
	0.9s	160.00nm			6.1mb
			i	01 27.00	
TCF	81.28	319	iPc	58 19.50	0.8
	1.7s	650.00nm			6.4mb
RJF	81.41	318	iPc	58 20.50	1.1
	1.4s	1470.00nm			6.8mb
LPO	81.44	317	iPc	58 20.70	1.2
	0.8s	610.00nm			6.7mb
EPF	81.51	315	eP	58 20.80	0.8
UCC	81.52	324	Pd-	58 20.50	0.7
			e	58 23.70	
			S	08 28.00	
DBN	81.54	325	iP-	58 20.00	0.2
	Z 20s	90.00um			7.1Msz
			iS	08 34.00	
			iScS	08 46.00	
			eSS	13 39.00	
YAK	81.55	24	iPd	58 18.90	-0.8
	2.0s	2190.00nm			6.9mb
			iS	08 28.70	
			iSSS	17 15.90	
LSF	81.71	319	iPc	58 21.70	0.8
	0.8s	485.00nm			6.6mb
LFF	81.82	317	iPc	58 22.70	1.2
	0.9s	771.00nm			6.8mb
YSS	81.98	41	iPd	58 22.00	-0.2
	1.4s	950.00nm			6.7mb
JAU	82.01	315	eP	58 24.70	1.9
ABJ	82.09	44	eP	58 23.00	0.1
			eS	08 43.00	
ESCF	82.17	315	eP	58 25.10	1.7
ATE	82.26	315	eP	58 25.70	1.8
ISSF	82.31	315	eP	58 25.90	1.7
KEV	82.33	346	iPd-	58 24.00	0.3
	1.1s	540.00nm			6.6mb
			i	58 33.20	
			eS	08 40.00	
NB2	82.41	335	P	58 23.80	-0.5
	1.6s	1950.00nm			7.0mb
KON	82.46	333	iPd	58 24.40	-0.1
BOH	82.48	315	eP	58 27.40	2.3
MCQ	82.67	144	eP	58 30.00	4.3X
	1.3s	1.20nm			3.9mb X
PAA	82.73	95	eP	58 25.00	-2.0
CRT	82.83	309	iPd	58 28.70	1.7
KIR	82.85	343	iP	58 26.60	0.1
MFF	82.92	319	iPc	58 27 90	0.7
	1.0s	531.00nm			6.7mb
SPA	83.22	180	iPd	58 28.20	-0.4
	1.0s	508.00nm			6.7mb
	Z 22s	61.60um			6.9Msz
MAL	83.35	308	iPd	58 30.00	0.4
			i	59 09.00	
LGR	83.36	314	iPd	58 31.40	1.8
	2.2s	5.90nm			4.4mb X
			i	58 46.00	
			iPP	01 46.00	
			iS	08 52.00	
LDF	83.51	320	eP	58 30.70	0.5
	1.5s	1220.00nm			6.9mb
FLN	83.79	321	eP	58 32.20	0.6
	1.5s	1080.00nm			6.8mb
TOL	83.83	311	iP-	58 33.50	1.5
			i	58 43.00	
			i	58 50.00	
			iPP	02 04.00	
			iPPP	04 02.00	
			iS	08 58.00	
			i	09 19.00	
			iPS	09 51.00	
			i	10 55.00	
			iSS	14 09.00	
			iSSS	18 13.00	
			i	24 58.00	
GRR	83.92	320	eP	58 32.60	0.4
	1.5s	1480.00nm			7.0mb
LPF	83.93	320	iPc	58 32.80	0.5
	1.2s	1350.00nm			7.0mb
SBA	84.36	168	eP	58 35.00	1.0
TRO	84.38	344	iP	58 34.00	-0.2
SFS	84.70	308	iPd	58 34.00	-2.4
			i	58 46.00	
			i	59 00.00	
			iPP	02 04.00	
			iPPP	05 01.00	
			iS	09 10.00	
			iSS	15 10.00	
			iSSS	19 00.00	
BER	84.72	333	iP	58 37.30	1.3
	2.4s	7530.00nm			7.5mb
KUR	84.89	43	iPd	58 36.00	-1.1
			iS	09 08.00	
TIK	86.52	15	P	58 44.00	-0.8
SVO	86.68	99	eP	58 50.00	3.3X
HNR	86.78	99	ePc-	58 46.00	-1.2
	1.3s	538.00nm			6.6mb
			PP	01 10.00	
			PPP	03 12.00	
			PS	05 20.00	
			eS	09 30.00	
LIS	87.44	309	eP	58 50.30	0.4
PTO	87.49	312	iPd	58 51.50	1.4
			iS	07 50.00	
			iPS	08 40.00	
KHE	87.61	358	iPd	58 52.00	2.1
	1.7s	3070.00nm			7.3mb
			ePP	02 15.00	
			iPPP	04 12.00	
			iSKS	09 16.00	
DLE	88.68	324	eP	58 53.00	-2.5
DMU	89.03	324	eP	58 54.20	-3.0X
	2.1s	5600.00nm			7.5mb
MSZ	89.37	135	eP	58 59.00	0.0
			(pP)	59 10.90	38kmX
			i	59 17.90	
KOU	89.66	111	iPc	59 03.20	2.4
MGD	90.26	29	P	59 00.00	-2.8
VAL	90.62	322	iP	59 05.70	1.1
			iS	09 40.00	
SKR	91.43	39	eP	59 08.40	0.1
	Z 16s	214.00um			7.7MszX
	N 18s	54.00um			
	E 18s	75.60um			
			iPPP	04 42.20	
			iS	10 12.00	
			iPPS	11 53.00	
NOU	91.44	113	iPc	59 09.00	0.0
SEY	91.62	27	iPd	59 08.80	-0.2
	2.1s	1320.00nm			6.9mb
			eSKS	09 44.80	
			ePS	11 23.00	
TEN	91.76	298	eP	59 12.00	1.6
			ePP	03 04.00	
			S	10 28.00	
PET	93.32	37	iPd	59 15.00	-2.0
	2.0s	830.00nm			6.8mb

30d 17h

ePP 03 06.00
eSKS 09 50.00
eS 10 20.00
ePS 11 43.00
eSS 16 36.00
PVC 93.82 108 iPc 59 16.60 -3.4X
TCW 94.62 132 P 59 22.20 -1.1
CRZ 94.83 125 eP 59 28.00 3.6X
WEL 94.96 132 P 59 24.00 -0.9
Z 18s 137.00um 7.5Msz
N 18s 82.50um
E 18s 96.20um
PP 03 20.00
PPP 05 30.00
SKS 09 56.00
e 10 48.00
MNG 95.64 132 P 59 27.80 -0.3
AKU 96.25 335 iP 59 35.70 5.5X
2.1s 907.00nm 6.9mb
DAG 96.79 347 iPd 59 32.50 0.0
0.8s 19.40nm 5.7mb
i 03 36.00
GNZ 98.04 130 P 59 40.10 1.2
e(S) 03 55.00
ILT 103.46 22 iPdiff00 03.00 0.5
1.6s 100.00nm 6.3mb
iPP 04 22.00
iSKS 10 44.00
eS 11 40.00
iPS 13 28.00
ITR 109.05 258 ePdiff00 41.10 12.4X
RDJ 110.25 243 iPdiff00 36.80 3.0X
MBC 110.33 3 ePdiff00 36.00 3.0X
0.8s 11.00nm
IMA 112.97 19 ePdiff00 52.00 6.9X
AFI 113.35 108 ePKP 04 56.00 14.4X
e 05 40.00
e 15 12.00
e 21 36.00
e 33 00.00
VAO 113.50 241 e(Pdif01 04.00 15.6X
e 01 11.10
INK 116.27 10 ePKP 04 39.00 -6.6X
1.5s 373.00nm
BAO 116.63 249 e(PKP)04 49.00 1.0
LPA 117.25 225 ePKP+ 04 56.00 7.5X
Z 20s 163.00um 7.6Msz
PMR 117.43 21 PKP 04 47.60 -0.4
Z 20s 250.00um 7.8Msz
SCH 121.95 333 ePKPc 04 56.50 -0.4
1.0s 122.00nm
pP 05 32.50
ATB 123.53 262 PKP 05 00.00 -1.1
TCA 123.87 225 e(PKP)05 03.00 1.6
YKA 124.22 4 ePKP 05 03.40 2.4
RSNT 124.24 4 ePKP 04 59.50 -1.5
YKC 124.24 4 ePKPd 05 00.50 -0.5
1.1s 169.00nm
RFA 124.37 219 ePKPc 05 03.00 0.7
CON 125.70 214 iPKP 05 07.50 2.8X
MDZ 125.82 221 i(PKP)05 06.90 1.7
FCH 126.45 219 iPKPc 05 09.50 2.8X
BACH 126.56 219 ePKP 05 10.00 3.4X
CEN 126.58 222 ePKP 05 09.00 2.3
LNV 126.73 218 iPKPd 05 11.50 4.8X
PEL 126.82 219 iPKPc 05 05.00 -2.1
JACH 127.07 220 ePKP 05 02.50 -5.1X
FCC 127.10 351 ePKP 05 06.00 -0.6
TLL 128.83 222 ePKP 05 10.00 -1.2
YJA 129.46 234 ePKP 05 03.00 -9.9X
TBI 129.52 128 ePKP 05 17.00 4.7X
1.6s 455.00nm
BNH 130.68 326 iPKP 05 15.00 1.0
MNT 131.38 328 ePKP 05 16.50 1.3
FFC 132.00 355 ePKP 05 16.00 -0.1
1.4s 140.00nm
AFR 132.07 121 ePKP 05 22.00 4.7X
1.0s 160.00nm
PAE 132.18 121 ePKP 05 22.00 4.5X
1.0s 90.00nm
PPT 132.23 121 ePKP 05 22.00 4.4X
1.0s 125.00nm
PPN 132.37 121 ePKP 05 21.00 3.1X
1.0s 95.00nm
TVO 132.41 121 ePKP 05 21.00 3.0X
1.0s 180.00nm
RSNY 132.49 328 iPKP 05 18.80 1.4
OTT 132.53 329 ePKP 05 19.00 1.6
EDM 133.52 5 ePKP 05 09.50 -9.6X
SEG 133.67 286 ePKP 05 25.00 4.6X
MDN 133.68 285 ePKP 05 30.50 10.1X
PAG 133.88 286 ePKP 05 25.00 4.1X
TRN 133.92 278 ePKP 05 22.40 1.5
1.0s 100.00nm
BPA 133.93 287 ePKP 05 23.50 2.6
LPB 134.30 239 PKP 05 04.00 -18.1X
i 05 26.00
pP 07 49.00
ZOBO 134.45 239 ePKP 05 14.00 -8.6X
1.0s 155.00nm
Z 20s 3.50um 6.1MszX
RSON 134.54 347 ePKP 05 19.30 -1.8
PMO 134.81 119 iPKP 05 25.20 2.7
1.2s 95.00nm
VAH 134.93 119 iPKP 05 23.30 0.5
1.2s 80.00nm
TPT 135.05 119 iPKP 05 23.90 0.9
1.2s 80.00nm
RUV 135.17 119 iPKP 05 23.40 0.2
1.2s 110.00nm
GUV 135.57 274 ePKP 05 24.20 0.1
PGC 136.28 15 ePKP 05 24.50 0.1
SES 136.49 3 ePKP 05 15.50 -9.4X
PNT 136.51 11 ePKP 05 13.00 -11.9X
2.0s 276.00nm
SJG 137.83 289 ePKP 05 19.00 -9.3X
Z 20s 110.00um 7.6Msz
NEW 137.96 9 ePKP 05 20.00 -7.7X
e 08 21.00
LDM 138.04 7 ePKP 05 19.70 -8.2X
UTO 139.13 332 ePKPc 05 23.50 -6.5X
CAR 139.36 278 iPKPc 05 31.80 0.5
1.0s 88.00nm
COR 140.05 17 ePKP 05 34.00 2.5
RKT 140.17 139 iPKP 05 36.40 4.1X
1.2s 105.00nm
BLA 140.75 324 ePKP- 05 22.80 -10.3X
e 05 29.80
e 05 46.80
ePP 08 27.60
LRM 140.95 5 ePKP 05 25.70 -7.8X
RSSD 142.69 355 ePKP 05 31.30 -5.3X
SDV 143.04 276 ePKP 05 34.80 -3.1X
FHC 143.24 21 ePKP 05 32.80 -4.5X
JSC 143.24 322 iPKP 05 34.80 -2.7X
UAV 143.55 275 ePKP 05 37.00 -1.8
LGN 143.64 278 ePKP 05 41.70 3.0X
WDC 143.92 19 ePKP 05 34.60 -3.8X
BDW 144.16 2 ePKP 05 36.20 -2.9X
MIN 144.43 18 ePKP 05 36.30 -3.2X
FVM 145.16 335 iPKP 05 39.60 -1.0
BMG 145.44 273 ePKP 05 45.00 3.1X
BOCO 146.25 268 ePKP 05 43.00 -0.7
1.5s 1310.00nm
BOG 146.27 268 iPKP 05 43.50 -0.1
BKS 146.45 21 iPKP 05 43.50 0.7
EUR 146.68 11 i(PKP)05 50.00 6.6X
JAS 146.99 18 ePKP 05 44.50 0.8
GLD 147.13 356 ePKP 05 44.50 0.4
Z 18s 79.10um 7.5Msz
MHC 147.14 20 ePKP 05 45.50 1.4
GOL 147.19 356 ePKP 05 44.50 0.2
Z 20s 65.00um 7.4Msz
MNA 147.19 15 ePKP 05 45.30 1.1
GAL 147.53 279 ePKP 05 49.50 4.4X
SAO 147.73 21 ePKP 05 46.40 1.5
FRI 148.09 18 ePKP 05 47.30 1.9
RLO 148.50 340 ePKP 05 46.50 0.3
PRI 148.56 20 ePKP 05 49.90 3.5X
GBO 148.84 340 ePKPd 05 46.80 0.1
TUL 148.99 341 iPKPd-05 47.10 0.2
1.3s 6060.00nm
Z 18s 132.00um 7.8Msz
PSO 149.01 261 iPKP 05 49.50 1.4
SIO 149.31 341 ePKP 05 48.30 0.9
RMU 149.75 5 iPKP 05 49.20 1.0
GCA 149.80 6 iPKP 05 52.10 3.8X
CLC 149.80 16 ePKP 05 53.00 4.8X
e 05 57.00
OCO 149.87 343 ePKP 05 48.80 0.5
GSC 150.49 15 ePKP 05 50.00 0.7
e 05 55.00
MWC 151.16 18 ePKP 05 51.00 0.5
e 05 58.00
e 09 38.00
SOR 151.26 306 iPKPd 05 51.00 0.3
4.0s *******nm
SOR 151.26 306 iPKP- 05 56.00 5.3X
e 07 55.00
RVR 151.57 17 ePKP 05 51.00 0.1
e 05 58.00
ALQ 151.98 357 ePKP- 05 50.00 -1.7
Z 20s 181.00um 7.9Msz
NSLM 152.21 336 iPKP 05 54.50 2.7X
PLM 152.32 16 ePKP 05 58.00 5.8X
e 05 59.00
e 09 45.00
BAR 153.00 16 ePKP 05 55.00 2.0
e 06 04.00
e 09 57.00
GLA 153.12 13 ePKP 05 55.00 1.9
e 06 05.00
HKT 154.35 335 iPKP 05 56.00 1.2
ATX 154.80 339 iPKP 05 55.60 0.2
JCT 155.27 343 ePKP 05 55.30 -0.8
1.0s 300.00nm
Z 20s 113.00um 7.7Msz
LPS 160.16 293 ePKP 06 03.00 0.5
e 06 47.20
MZX 163.65 355 ePKP 06 07.60 2.0
IIC 164.64 328 ePKP 06 08.30 1.2
VHO 164.97 315 iPKP 06 09.00 1.8
CRX 165.16 328 ePKP 06 08.00 0.5
III 165.88 325 ePKP 06 09.10 1.1
ACX 167.29 323 ePKP 06 09.50 0.7
S.D. = 1.2 on 439 of 525 obs.

DEC 22, 1983 04h 11m 29.02± 0.47s
11.862 N ± 1.6km 13.537 W ± 1.4km
DEPTH = 10.4 ± 2.8 km
6.4mb (115 obs.) 6.3Msz (26 obs.)
NORTHWEST AFRICA (550)
At least 443 people killed, 200 reparted missing, 150 seriously injured and extensive damage in the Gaoul-Koumbia area, Guinea. Felt in Guinea-Bissau, Senegal, The Gambia and Sierra Leone.

MBO 4.17 307 iPd 12 34.20 0.1
KIC 10.26 121 iPd 13 53.50 -5.9X
TEN 16.71 352 iP 15 22.00 -2.8X
iS 18 18.10
AVE 22.06 14 iPd 16 25.50 -0.2
IFR 22.89 18 iPc 16 34.00 -0.1
SFS 25.37 14 iP 17 00.00 2.2
i 17 33.00
iPP 18 01.00
iS 21 08.00
iSS 23 10.00
ALR 25.79 20 iP 17 03.00 1.3
i 17 08.00
CRT 26.75 18 iP 17 11.00 0.2
i 17 15.30
iPP 18 04.80
ALM 26.81 20 iPc 17 12.70 1.6
1.0s 14.40nm 4.6mb X
ePP 21 42.50
LIS 27.03 8 iPc 17 14.50 1.3
ALI 28.84 22 eP 17 30.00 0.4
ABA 28.97 28 eP 17 33.50 2.7
TOL 29.14 15 iPd 17 31.00 -1.3
i 17 35.50
ePP 18 18.00
ePcP 20 24.00
iS 22 19.00
i 24 10.00
PTO 29.48 8 iP 17 38.00 2.7
iS 22 22.00
SET 29.65 32 eP 17 37.00 -0.1
CAI 29.74 233 iPd 17 37.60 -0.4
0.8s 104.00nm 5.7mb
EBR 31.38 21 eP 17 53.00 0.9
eS 22 55.00
BNG 32.58 100 iPd 18 03.00 0.0
1.0s 195.00nm 6.0mb
EPF 33.31 19 iPc 18 08.80 -0.2
1.2s 527.00nm 6.3mb
MLS 33.48 20 eP 18 10.80 0.3
SOB1 34.32 234 eP 18 17.40 -0.7
ERC 34.98 37 eP 18 25.50 2.1

22d 04h

LPO	35.06	18	eP	18 23.70	-0.4
	1.2s	963.00nm			6.5mb
LFF	35.16	18	eP	18 24.80	-0.1
CAF	35.56	19	eP	18 27.80	-0.5
	1.1s	696.00nm			6.4mb
RJF	35.72	18	eP	18 29.10	-0.6
	1.2s	347.00nm			6.1mb
GIB	35.81	39	eP	18 31.00	0.4
			ePP	19 10.50	
LMR	35.84	25	iPc	18 30.70	0.0
	1.2s	900.00nm			6.5mb
LRG	35.88	25	iPc	18 31.10	0.1
	1.2s	810.00nm			6.5mb
FRF	36.08	25	iPc	18 32.60	-0.2
	1.2s	594.00nm			6.3mb
MFF	36.43	16	eP	18 35.50	-0.2
	1.1s	548.00nm			6.3mb
LSF	36.58	18	eP	18 36.60	-0.3
	1.0s	438.00nm			6.2mb
TCF	36.82	18	eP	18 38.90	-0.1
MSI	36.90	40	eP	18 42.50	2.9X
LPF	37.54	14	eP	18 45.00	0.0
	1.2s	437.00nm			6.1mb
RDP	37.59	33	eP	18 46.50	1.0
RMP	37.62	33	iPd	18 48.00	2.3
			iPP	20 12.00	
			iS	24 36.00	
AVF	37.63	19	eP	18 46.10	0.4
	1.1s	454.00nm			6.2mb
SMF	37.66	20	eP	18 46.00	0.0
	1.1s	537.00nm			6.2mb
SSF	37.92	19	iPc	18 48.60	0.5
GRR	37.92	14	iPc	18 48.30	0.2
	0.7s	343.00nm			6.2mb
LBF	38.00	20	iPc	18 48.90	0.0
	1.0s	422.00nm			6.2mb
MNS	38.02	32	eP	18 49.00	0.0
LOR	38.21	19	iPc	18 50.80	0.2
	0.7s	315.00nm			6.2mb
SGO	38.23	36	eP	18 51.50	0.7
VG1	38.23	26	eP	18 52.80	2.1
EMS	38.27	23	ePd	18 51.60	0.3
POI	38.29	32	iPc	18 51.50	0.3
LDF	38.29	14	iPc	18 51.30	0.1
	1.1s	847.00nm			6.4mb
CSI	38.31	38	eP	18 51.50	-0.1
ORO	38.32	25	eP	18 51.00	-0.7
FIR	38.32	29	eP	18 53.50	2.0
			iS	24 50.00	
FLN	38.36	14	eP	18 51.50	-0.3
	1.2s	630.00nm			6.2mb
AOU	38.37	33	eP	18 52.50	0.4
DIX	38.46	24	ePd	18 53.60	0.5
DUI	38.47	34	iPc	18 56.50	3.7X
MMK	38.66	24	ePd	18 55.10	0.4
ALP	38.76	32	e(P)	18 54.50	-0.7
TMA	39.07	25	ePd	18 57.10	-1.0
SAL	39.38	27	eP	19 00.00	-0.4
BRT	39.54	38	iPc	19 02.50	0.7
ROF	39.61	22	iPc	19 02.80	0.5
VDL	39.63	25	ePd	19 01.80	-0.9
BBS	39.65	22	P	19 02.40	-0.3
BSF	39.70	21	iPc	19 02.90	-0.3
LLS	39.74	24	ePd	19 03.00	-0.6
BAF	39.77	22	P	19 02.80	-1.0
ZUL	40.00	23	ePd	19 05.30	-0.3
VAL	40.06	3	iP	19 06.90	1.0
			iS	25 12.00	
OSS	40.07	25	ePd	19 05.50	-0.8
VLS	40.15	43	eP	19 06.50	-0.4
ECH	40.16	22	P	19 06.40	-0.4
FEL	40.18	23	P	19 06.40	-0.8
SAX	40.19	24	ePd	19 06.50	-0.9
CTI	40.22	27	eP	19 07.00	-0.5
SLE	40.28	23	ePd	19 07.50	-0.3
CDF	40.36	21	P	19 08.40	-0.2
OGA	40.58	26	iPc	19 09.80	-0.8
BUH	40.93	22	ePd	19 13.20	0.0
DOU	40.94	18	Pd	19 13.10	-0.1
	1.4s	3910.00nm			6.9mb
			PP	20 52.30	
			S	25 05.00	
TRI	40.95	29	iPd	19 12.80	-0.5
			iPP	20 46.00	
			iS	25 28.00	
			iSS	28 26.00	
GWF	40.96	21	P	19 13.20	-0.2
WLF	41.05	19	P+	19 20.00	6.0X
			PP	20 58.00	
			S	25 05.00	
GAP	41.08	25	eP	19 13.40	-1.0
	0.8s	476.00nm			6.3mb
CEY	41.30	30	ePc	19 15.70	-0.5
ATB	41.30	251	iP	19 15.50	-1.1
RBL	41.40	28	iPd	19 17.50	0.4
UCC	41.50	17	Pd-	19 17.00	-0.7
	1.2s	880.00nm			6.4mb
			PP	20 55.00	
			S	25 11.00	
LJU	41.57	30	iPc	19 18.50	0.1
			iPP	20 55.00	
			eS	25 28.50	
DLE	41.70	6	iPd	19 19.50	0.2
	0.9s	1520.00nm			6.7mb
FUR	41.71	25	iPc	19 18.80	-0.7
	1.4s	145.00nm			5.5mb
	Z 19s	46.60um			6.4Msz
			eS	25 35.00	
TTG	41.71	37	e(P)	19 20.10	0.5
			e	20 59.00	
			e	25 24.50	
KBA	41.77	28	iPd	19 20.00	-0.2
	2.0s	1340.00nm			6.3mb
			i	19 21.50	
			i	19 24.30	
			ipPP	21 13.20	
			i	25 39.00	
			i	25 41.30	
OHR	41.88	40	iP	19 22.00	0.9
ENN	41.94	18	iPd	19 21.50	0.2
	1.2s	589.00nm			6.2mb
			i	19 25.80	
			ePP	21 05.00	
KZN	42.05	41	eP	19 23.00	0.4
ATH	42.19	45	iPd	19 28.00	4.4X
			ePP	21 02.00	
			iS	25 38.00	
DMU	42.26	6	iPd	19 24.10	0.1
	1.1s	2280.00nm			6.8mb
NPS	42.39	50	eP	19 25.50	0.2
LIT	42.41	42	eP	19 25.00	-0.5
SKO	42.76	39	iPc	19 28.40	0.2
	1.3s	850.00nm			6.3mb
			i	19 30.70	
			iPP	21 06.00	
			iS	25 46.00	
			iSS	29 07.00	
GRG	42.81	41	ePc	19 28.00	-0.7
KMR	42.85	27	iP-	19 30.20	1.3
			i	21 06.10	
			e	24 30.00	
DBN	42.89	17	iPd	19 31.00	1.9
	Z 22s	28.00um			6.1Msz
			ePP	21 12.00	
			iS	25 59.00	
			eSS	29 12.00	
GRF	42.90	24	iPc	19 28.90	-0.4
	1.4s	866.00nm			6.3mb
	Z 19s	21.00um			6.1Msz
			ePP	21 05.00	
			eS	25 54.00	
THE	43.00	42	eP	19 30.00	-0.2
VAY	43.11	41	eP	19 31.00	-0.1
PAIG	43.11	43	ePc	19 30.10	-1.0
WET	43.14	25	iPc	19 31.00	-0.2
			eS	25 55.00	
KNT	43.23	41	ePd	19 32.00	-0.1
WTS	43.28	18	ePd	19 33.00	0.7
	1.4s	1350.00nm			6.5mb
			i	19 37.40	
			iPP	21 16.00	
KHC	43.42	26	iPd	19 33.00	-0.6
	1.0s	232.00nm			5.9mb
	N 10s	6.60um			
	E 14s	9.90um			
			PP	21 20.30	
			S	26 00.00	
			e	29 24.00	
OUR	43.52	43	eP	19 35.00	0.6
SRS	43.66	41	ePc	19 35.50	-0.1
MOX	43.81	23	iPd-	19 36.50	-0.2
	2.2s	1400.00nm			6.4mb
	Z 14s	29.00um			6.3MszX
	N 18s	32.00um			
	E 16s	26.00um			
			i	21 18.50	
			i	26 05.00	
			iSS	29 35.00	
WIT	43.95	18	ePd	19 39.00	1.3
	1.2s	2000.00nm			6.8mb
			i	19 43.70	
			ePP	21 21.50	
VKA	44.01	29	ePc	19 36.00	-2.3
	3.0s	4300.00nm			6.8mb
	Z 15s	21.30um			6.2MszX
			i	19 39.70	
			i	20 23.50	
			iPP	21 22.00	
			i	25 55.00	
			i	26 19.70	
			iSKS	27 50.30	
			i	29 24.50	
EKA	44.13	9	Pc	19 39.50	0.4
	0.8s	129.00nm			5.8mb
ZST	44.33	29	eP	19 40.40	-0.5
			e	21 21.00	
			e	23 08.80	
			e	26 29.00	
			e	28 28.90	
PRU	44.48	26	Pd	19 41.30	-0.8
	2.3s	1450.00nm			6.4mb
	Z 16s	29.60um			6.3MszX
	N 14s	28.20um			
	E 12s	21.80um			
			ePP	21 26.00	
			iS	26 16.00	
			i	29 32.00	
SSR	44.61	36	iP	19 45.00	1.8
SRO	44.66	30	eP	19 43.20	-0.3
	N 18s	19.10um			
	E 18s	9.30um			
			ePP	21 26.40	
			eS	26 19.20	
			e(SS)	29 26.40	
			eScS	29 38.40	
BUD	44.79	31	iPd	19 44.50	-0.1
EZN	44.85	44	iPd	19 45.30	0.1
CLL	44.87	23	iPd	19 44.80	-0.4
	2.6s	2200.00nm			6.6mb
			iS	26 21.00	
IZM	44.88	47	eP	19 45.70	0.2
BRG	44.91	24	iPd	19 45.20	-0.3
	2.2s	1400.00nm			6.5mb
			eS	26 21.00	
YER	45.11	49	iPc	19 46.40	-1.0
CIN	45.15	48	iPc	19 49.20	1.6
RDJ	45.15	220	eP	19 50.80	3.1X
HLW	45.27	60	iPd	19 49.00	0.3
			eS	26 22.00	
PSZ	45.52	31	iPd	19 50.70	0.2
HAM	45.52	19	iPd	19 51.40	1.1
BMA	45.60	221	eP	19 52.20	0.8
			e	20 04.40	
BRN	45.82	23	eP	19 53.00	0.3
			ePP	21 43.00	
KSP	45.87	26	iPd	19 52.30	-0.8
	1.4s	518.00nm			6.3mb
			iPP	21 43.50	
			eS	26 35.00	
MFT	45.94	44	iP	19 54.70	0.8
DRA	45.97	37	eP	19 56.00	2.0
EDC	46.14	45	iP	19 55.20	-0.2
ELL	46.17	50	iPc	19 56.00	0.1
JOS	46.22	31	ePc	19 56.00	0.1
	0.6s	60.00nm			5.8mb
COZ	46.38	37	ePc	19 59.00	1.5
SPC	46.53	30	eP	19 59.00	0.4
	1.8s	1800.00nm			6.8mb
			i	21 12.30	
			i(PP)	21 45.70	
			i	22 57.30	
			e(S)	26 39.30	
CEI	46.71	33	iP	20 07.00	7.2X
DMK	46.73	43	iPd	19 59.40	-0.7
CJR	46.75	35	eP	20 00.90	0.7
CGN	46.76	39	ePd	20 01.00	0.8
CMP	46.76	37	ePd	20 02.00	1.7
BUC1	46.87	39	iP	20 03.50	2.4
CTT	46.88	44	iP	20 00.30	-1.0
TRN	46.92	274	eP	20 03.20	1.3
BCK	46.93	49	iP	20 01.40	-0.4

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KRA 46.96 29 iPd 20 01.30 -0.5
1.3s 590.00nm 6.5mb
N 20s 21.60um
E 20s 31.00um
e 20 12.90
e 20 15.60
i 20 38.10
i 21 55.00
eS 26 45.00
i 30 21.00
UZH 47.21 32 iPd 20 04.50 0.8
1.3s 1300.00nm 6.9mb
Z 14s 29.00um 6.4MszX
N 14s 13.00um
E 14s 22.00um
iPP 21 50.00
eS 26 56.00
IST 47.22 44 iPd 20 00.00 -3.9X
i 21 54.00
ISK 47.27 44 ePn 20 03.80 -0.5
MLR 47.42 37 iPc 20 05.00 -0.6
HRT 47.58 45 iPn 20 06.30 -0.6
ISR 47.59 38 eP 20 06.50 -0.4
VAO 47.67 223 iPd 20 07.80 0.0
i 20 09.30
e 20 23.90
GPA 47.81 46 iP 20 08.30 -0.4
MUD 47.84 17 iPd 20 08.20 -0.4
0.7s 360.00nm 6.6mb
VRI 48.08 37 iP 20 11.00 0.3
COP 48.18 19 iPd- 20 11.90 0.6
0.7s 356.00nm 6.6mb
iS 27 10.00
TLB 48.23 39 iPd 20 12.00 0.2
BSO 48.23 59 eP 20 12.00 0.0
STJ 48.39 325 eP 20 12.00 -1.0
BAC 48.56 37 eP 20 12.00 -2.3
CFR 48.60 39 ePd 20 13.00 -1.6
ASI 48.75 59 eP 20 16.00 -0.2
CLI 48.77 37 iPd 20 15.50 -0.5
PPE 48.79 37 ePc 20 16.00 -0.1
BIR 48.83 37 eP 20 18.00 1.6
LVV 48.84 32 iPd 20 16.30 -0.1
5.0s 8800.00nm 7.1mb X
iPP 22 07.00
iPPP 22 54.00
iS 27 14.00
iSS 30 43.00
JER 48.93 58 ePd 20 17.50 0.0
eS 27 24.00
GUV 48.95 270 eP 20 17.60 -0.2
KDE 48.99 45 eP 20 16.10 -1.6
KIS 49.94 37 iPd 20 24.00 -0.9
6.0s 3600.00nm 6.5mb X
Z 18s 24.00um 6.2Msz
N 19s 13.50um
E 19s 25.00um
iPP 22 19.00
iS 27 25.00
BER 50.41 12 iP 20 28.00 -0.3
1.0s 0.50nm 3.4mb X
KON 50.72 15 eP 20 30.30 -0.4
SJG 51.07 284 iPd 20 33.00 -1.0
0.7s 151.00nm 6.0mb
Z 20s 9.22um 5.8Msz
KRI 51.30 123 iPd 20 35.00 -0.9
iPP 22 36.00
AAE 51.46 88 eP 20 38.50 1.1
NAI 51.68 101 eP 20 42.00 3.1X
2.0s 1290.00nm 6.5mb
SIM 52.26 42 eP 20 41.00 -1.6
6.0s 6000.00nm 6.7mb X
Z 26s 17.50um 6.0MszX
N 20s 21.00um
E 20s 13.00um
ePcP 21 49.00
ePP 22 41.00
ePPP 23 47.00
eS 27 57.00
eSS 31 47.00
BUL 52.27 127 iPd 20 42.00 -1.1
ipP 21 00.00 71kmX
iPP 22 49.00
iS 28 07.00
CAR 52.33 274 eP 20 40.00 -3.7X
0.7s 27.40nm 5.3mb X
iPP 22 00.00

NB2 52.33 15 P 20 41.80 -1.2
0.9s 350.00nm 6.3mb
REY 52.53 355 iP 20 40.20 -4.1X
i 20 48.00
MTD 52.91 122 iPd 20 47.00 -0.9
ipP 21 08.00 85kmX
UPP 53.20 19 iP 20 48.50 -0.8
1.1s 700.00nm 6.5mb
iS 28 13.10
AKU 53.85 358 iP 20 54.20 0.3
1.5s 778.00nm 6.5mb
SWZ 54.11 136 iPd 20 55.30 -1.3
ANN 54.33 43 iPd 20 57.00 -0.8
2.0s 4000.00nm 7.1mb
Z 18s 15.50um 6.1Msz
N 19s 17.00um
E 19s 18.00um
ePcP 21 58.00
ePP 23 00.00
iS 28 32.50
eSSS 34 12.00
TUH 54.66 146 eP 21 01.50 1.1
CER 54.79 146 eP 21 02.90 1.5
BFS 54.93 135 iPd 20 59.00 -3.7X
1.6s 2270.00nm 7.0mb
ARO 55.13 84 P 21 07.00 2.7
TOV 55.22 274 eP 21 05.00 0.0
SLR 55.26 133 iPd 21 04.00 -1.1
0.9s 765.00nm 6.7mb
Z 20s 25.90um 6.3Msz
BPI 55.35 134 iPd 21 04.30 -1.5
PRY 55.42 135 iPc 21 04.50 -1.8
SOC 55.54 45 eP 21 05.00 -1.7
1.4s 700.00nm 6.5mb
iPcP 22 08.00
iPP 23 12.00
ePPP 24 24.00
eS 28 48.00
eSS 32 34.00
VIR 55.73 136 iPd 21 06.50 -2.0
BLF 55.94 138 iPd 21 07.00 -3.0X
NUR 56.07 22 iPd 21 09.00 -1.3
0.7s 88.10nm 5.9mb
ePP 23 08.00
ePPP 24 24.00
eS 29 00.00
eSS 32 40.00
SDV 56.16 273 eP 21 11.00 -0.9
EVA 56.30 133 iPd 21 11.00 -1.6
SEK 56.40 136 iPd 21 12.00 -1.3
HVD 56.48 139 iPd 21 12.50 -1.4
LGN 56.61 274 i(P) 21 17.20 2.3
UAV 56.70 273 eP 21 14.60 -1.2
BHD 56.84 58 iPc 21 15.30 -0.9
iPP 22 12.80
iPP 23 25.30
ePPP 24 58.30
eS 29 11.80
eSS 31 11.30
eSSS 35 33.80
eLQ 42 31.30
CBM 57.49 319 ePd 21 17.80 -2.8
BKR 57.73 48 iPd 21 21.00 -1.6
1.4s 1900.00nm 6.9mb
iPP 23 32.80
iS 29 24.00
iSPP 29 42.40
LEN 57.75 49 iPd 21 24.00 1.2
2.0s 1900.00nm 6.8mb
N 16s 5.90um
iPP 23 38.00
ePPP 25 00.00
iS 29 23.00
PUL 57.77 24 iPd 21 21.00 -1.3
3.0s 2600.00nm 6.7mb
Z 14s 21.00um 6.4MszX
N 14s 12.00um
E 14s 20.00um
iPP 23 32.00
iPPP 24 52.00
iS 29 17.00
eScS 31 10.00
iSS 33 08.00
PYA 57.98 45 iPd 21 23 50 -0.7
2.0s 2640.00nm 6.9mb
Z 27s 18.00um 6.1MszX
N 27s 5.40um

E 27s 13.50um
ePcP 22 09.00
iPP 23 32.00
iPPP 24 58.00
iS 29 26.00
eSPP 29 49.00
iScS 31 12.00
iSS 33 08.00
iSSS 35 27.00
SUF 58.10 20 iPd 21 23.80 -0.9
0.8s 292.00nm 6.4mb
ERE 58.11 50 iPd 21 24.50 -0.7
iS 29 29.00
iSS 33 21.00
OBN 58.18 31 iPd 21 23.30 -1.9
1.2s 670.00nm 6.6mb
Z 18s 28.00um 6.4Msz
N 18s 11.00um
E 18s 25.00um
iS 29 24.00
eScS 31 15.00
eSSS 35 28.00
NPA 58.73 116 eP 21 32.00 2.2
e 23 43.00
e 29 45.00
e 43 42.00
BNH 58.91 315 eP 21 30.70 0.1
MOS 58.96 31 iPd 21 30.00 -0.7
1.9s 2200.00nm 7.0mb
Z 17s 20.00um 6.3MszX
N 12s 18.50um
E 12s 12.70um
iPcP 22 22.00
iPP 23 42.00
ePPP 25 09.00
eS 29 30.00
ePS 29 51.00
GRM 58.98 141 iPd 21 27.50 -3.8X
1.2s 797.00nm 6.7mb
Z 20s 10.30um 6.0Msz
TAB 59.12 53 eP 21 30.00 -2.4
i 21 33.00
KER 59.22 57 eP 21 33.50 0.4
e 29 32.50
GRS 59.36 51 iPd 21 32.80 -1.3
1.6s 500.00nm 6.4mb
iPP 23 48.00
iPPP 25 18.00
iS 29 43.40
iSPP 30 03.00
KRV 59.58 50 iP 21 34.00 -1.3
iS 29 46.00
KJF 59.62 20 iPd 21 34.30 -0.9
0.8s 317.00nm 6.5mb
i 21 40.00
ePP 25 08.00
eS 29 32.00
eSS 33 16.00
SCH 59.63 327 iPc 21 35.00 -0.5
1.8s 886.00nm 6.6mb
GRO 59.66 47 iPd 21 35.00 -0.8
1.0s 350.00nm 6.4mb
Z 26s 21.00um 6.2MszX
N 18s 18.50um
E 20s 22.50um
iPPP 25 17.00
iS 29 50.00
FUQ 59.76 269 eP 21 35.50 -1.9
BOCO 60.22 269 iP 21 39.80 -0.8
1.2s 306.00nm 6.3mb
BOG 60.24 269 iP 21 40.00 -0.7
GPD 60.43 311 eP 21 40.80 -0.4
PRIN 60.51 310 eP 21 41.70 0.0
MNT 60.76 316 iPd 21 42.50 -0.7
1.8s 305.00nm 6.1mb
MAK 60.84 47 iPd 21 45.00 1.1
8.0s 6400.00nm 6.8mb X
Z 14s 14.20um 6.3MszX
N 16s 19.10um
E 16s 15.50um
iS 30 03.00
iSS 34 04.00
LPB 60.88 243 Pd- 21 43.50 -1.5
1.2s 625.00nm 6.6mb
Z 18s 27.80um 6.5Msz
iS 30 00.00
YJA 61.15 236 ePd 21 45.80 -1.0

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RSNY		61.17	314	iP	21	46.40	0.3	RFA		69.69	226	ePc	22	40.60	-0.6				eS	33	32.00		
		1.5s	200.00nm			6.0mb		FCH		70.27	228	iPc	22	45.50	0.4				ePS	34	18.00		
TRO		61.28	12	iP	21	45.70	-0.8	BACH		70.42	228	eP	22	47.50	1.8	ATX		79.27	299	iP	23	36.50	0.0
SOD		61.46	17	iP	21	46.20	-1.5	PEL		70.46	228	iPc	22	46.50	0.6	ANR		79.28	50	eP	23	37.00	0.6
INY		62.17	312	iP	21	52.00	-0.9	SAN		70.60	228	iP	22	47.50	0.8			2.0s	880.00nm			6.4mb	
				iS	30	20.00		PWLA		70.67	303	eP	22	46.60	-0.6		Z	16s	6.50um			6.1MszX	
OTT		62.17	315	ePd	21	52.50	-0.3	CHCH		70.83	228	iPd	22	49.30	1.2		N	16s	27.00um				
		1.2s	107.00nm			5.9mb		TACH		70.90	228	eP	22	49.00	0.5		E	16s	13.00um				
BAK		62.21	51	iPc	21	56.00	2.8X	LNV		71.39	228	iPd	22	52.00	0.6				eS	33	33.00		
		0.4s	7500.00nm			8.2mb X		SVE		71.49	34	ePd	22	51.50	-0.2	FFC		79.53	324	iPd	23	47.80	10.4X
				iS	30	22.00				3.0s	2170.00nm			6.7mb				1.7s	692.00nm				
SLA		62.38	234	ePd	21	53.00	-1.7		Z	16s	22.00um			6.5MszX		FRU		80.70	48	iPd	23	44.00	0.0
IR4		62.42	56	eP	21	53.70	-1.2		N	16s	16.00um							2.4s	1670.00nm			6.6mb	
NA12		62.61	307	eP	21	55.40	-0.5		E	16s	12.60um						Z	14s	6.30um			6.1MszX	
LPA		62.71	220	eP-	21	58.00	1.5					ePcP	23	07.70			N	17s	12.50um				
	Z	20s	22.70um			6.3Msz						ePP	25	32.00					iS	33	51.00		
CVL		63.06	307	eP	21	57.30	-1.6					ePPP	27	20.00					eSS	39	00.00		
KEV		63.23	15	iPd	21	58.00	-1.5					eS	32	11.00		IIT		81.34	288	eP	23	49.30	1.3
		0.8s	469.00nm			6.7mb						eSS	36	42.00		NRN		81.92	49	iPd	23	51.00	0.2
				i	22	03.00		ELC		71.57	305	iPd	22	51.40	-1.1					eS	34	00.00	
				ePP	24	08.00		LHC		71.76	317	iPd	22	52.60	-0.8	IIC		82.10	289	eP	23	53.80	1.7
				ePPP	26	00.00				2.0s	907.00nm			6.5mb		KSH		82.20	51	eP	23	54.00	2.0
				eS	30	20.00						pP	23	07.00	51kmX					iS	34	11.00	
SHI		63.50	63	eP	21	59.00	-3.1X	FVM		72.50	306	eP	22	56.80	-1.3	RSSD		82.21	313	iP	23	52.80	0.7
APA		63.54	18	iPc	22	01.20	-0.3			1.8s	458.00nm			6.3mb				1.5s	178.00nm			6.0mb	
		2.0s	990.00nm			6.7mb		POW		73.18	304	eP	23	00.20	-1.9	MBC		82.28	347	eP	23	52.30	0.8
	Z	18s	45.00um			6.7Msz		RSON		74.70	320	iP	23	09.20	-1.4			0.7s	147.00nm			6.2mb	
	N	17s	12.00um							1.5s	423.00nm			6.3mb		AAA		82.33	47	iPd	23	54.80	2.3
	E	17s	21.00um					FCC		75.04	328	eP	23	12.00	-0.4			6.0s	5.50nm			3.9mb X	
				iPcP	22	42.70		SAM		75.27	52	iP	23	13.70	-0.5				iS	34	11.80		
				iPPP	25	49.00				2.2s	1400.00nm			6.6mb					eSPP	35	15.80		
				iS	30	34.00			N	16s	23.10um								eSS	39	26.80		
ARE		63.84	245	P	22	02.00	-2.7		E	16s	14.60um					III		82.53	287	ePd	23	55.60	1.4
PSO		64.12	266	iP	22	06.00	-0.7					ePP	26	07.00		TLG		82.65	47	eP	23	54.10	-0.1
CAC		64.19	238	e(P)	22	07.00	0.2					ePPP	27	50.00				2.0s	230.00nm			6.0mb	
FRB		64.37	336	eP	22	06.00	-1.0					iS	32	51.00					iS	34	15.00		
BLA		64.54	306	eP	22	08.90	0.2					iSP	33	27.00		NRI		83.04	20	iPd	23	56.50	0.9
UPA		64.84	274	iPc	22	11.00	0.1	KHE		75.39	9	iPd	23	15.00	0.9			2.2s	280.00nm			6.1mb	
		1.0s	104.00nm			6.0mb				1.5s	750.00nm			6.5mb			Z	22s	25.70um			6.6Msz	
	Z	20s	5.67um			5.8Msz			Z	18s	22.00um			6.5Msz			N	20s	9.30um				
	N	20s	8.87um						N	19s	9.10um						E	22s	17.60um				
NAV		64.85	306	eP	22	10.30	-0.4		E	19s	9.10um								ePP	27	12.00		
DAG		64.96	359	iPd	22	09.80	-0.8					ePcP	23	31.00					ePPP	29	04.00		
		0.9s	185.00nm			6.3mb						iPP	26	00.00					eS	34	17.00		
				i	30	47.00						ePPP	27	44.00					eSS	39	40.00		
				i	35	07.00						eS	32	54.00		ACX		83.16	286	eP	23	58.10	0.9
JSC		65.05	302	eP	22	11.90	-0.1					eScS	33	26.00		SEM		83.36	40	iPd	23	58.10	0.5
GFM		65.59	304	eP	22	15.60	0.0					eSS	37	38.00				4.6s	5560.00nm			7.1mb X	
LDN		65.68	312	P	22	14.40	-1.4	COM		75.95	284	iP	23	18.00	-0.6					ePP	27	11.50	
ELF		65.79	312	P	22	15.20	-1.4	RLO		76.28	305	iPd	23	19.00	-0.9					ePPP	28	59.10	
ANT		65.88	237	eP-	22	17.00	-0.4	BHO		76.30	303	iPd	23	19.90	-0.2					eSKS	34	15.70	
				eS	31	04.00		NSLM		76.60	300	iP	23	22.00	0.2	PRZ		83.52	48	eP	24	00.50	1.7
				e	42	52.00		DSH		76.74	53	iPd	23	22.50	0.0			1.0s	690.00nm			6.8mb	
PRM		65.96	302	iPd	22	17.50	-0.3		Z	12s	5.00um			6.0MszX			Z	14s	5.40um			6.1MszX	
KAT		66.97	52	iPd	22	25.00	0.8		N	12s	5.00um						N	14s	19.20um				
		6.0s	6700.00nm			7.0mb X			E	12s	7.00um						E	14s	8.40um				
				ePcP	22	55.00						iS	33	07.50					ePP	27	19.00		
				ePP	24	54.00		TUL		76.92	304	iPd-	23	22.80	-0.7				eS	34	20.00		
				iS	31	19.00				1.6s	924.00nm			6.6mb					eSP	35	08.00		
				ePPS	31	50.00			Z	19s	9.20um			6.1Msz					eSPP	35	34.00		
				eSS	35	40.00						e	25	15.80		GLD		83.81	309	iP	24	01.50	1.1
TKL		67.16	304	eP	22	25.50	0.0					e(S)	33	09.00				1.5s	1060.00nm			6.8mb	
VBA		67.21	220	iPd	22	27.00	1.3	TAS		76.92	50	eP	23	23.00	-0.4		Z	18s	12.00um			6.3Msz	
AVY		67.69	116	ePc	22	30.00	0.8			2.0s	900.00nm			6.5mb		GOL		83.93	309	iP	24	02.10	1.0
CEN		68.27	229	eP	22	33.00	0.5		E	14s	20.00um							1.5s	314.00nm			6.3mb	
VAN		68.35	54	iPd	22	31.00	-1.9					ePP	26	17.30			Z	18s	7.37um			6.1Msz	
		8.0s	7070.00nm			6.9mb X						ePPP	28	02.30		NVL		84.24	172	eP	24	03.00	1.5
	Z	16s	11.30um			6.2MszX						eS	33	04.30					eS	34	24.00		
	E	16s	8.16um									eScS	33	39.00		NVS		84.30	35	iPd	24	02.50	0.3
				ePP	25	04.00						eSS	38	16.00				0.7s	720.00nm			7.0mb	
				eS	31	34.00		KUL		77.56	54	eP	23	28.20	1.1				iS	34	25.70		
				eSS	35	56.00				4.2s	2300.00nm			6.6mb X		YKC		84.57	333	ePd	24	03.50	0.0
ASH		68.55	54	eP	22	34.00	-0.1		N	13s	26.00um							1.8s	400.00nm			6.3mb	
		5.0s	5660.00nm			7.0mb X			E	12s	11.30um					RSNT		84.63	333	ePd	24	04.10	0.4
				eS	31	37.00						iS	33	20.20				1.5s	267.26nm			6.3mb	
				ePS	32	02.00		HKT		77.56	298	iP	23	27.00	-0.1	YKA		84.63	333	eP	24	05.10	1.4
				ePPS	32	14.00		GAR		77.90	52	eP	23	29.30	0.3	NDI		85.06	62	iPd	24	06.50	-0.1
				eScS	32	33.00				2.0s	900.00nm			6.5mb				0.5s	120.00nm			6.4mb	
RSCP		68.64	304	iP	22	34.50	-0.3		N	18s	11.00um								iPP	27	22.00		
		1.5s	744.00nm			6.7mb						eS	33	16.30					iPPP	29	22.00		
	Z	22s	20.60um			6.3Msz						eSKS	33	32.00		ALQ		85.67	305	iPd	24	11.00	1.2
KHI		68.74	58	ePc	22	34.80	-0.8					eSS	38	20.30				1.7s	673.00nm			6.6mb	
MDZ		69.00	228	i(P)	22	38.60	1.6	OCO		78.32	304	eP	23	31.00	-0.2		Z	22s	8.89um			6.1Msz	
TLL		69.13	231	eP	22	37.00	-1.1	KHO		79.01	54	eP	23	36.40	1.2	SES		85.69	320	eP	24	10.00	0.6
MHI		69.44	56	iPd	22	38.80	-1.0			2.0s	4800.00nm			7.2mb				1.4s	8 00nm			4.7mb X	
		1.0s	320.00nm			6.4mb						ePP	26	37.90		ELT		86.38	36	iPd	24	01.10	-11.5X
				eS	31	44.00						ePPP	28	30.00				2.3s	310.00nm				

22d 04h

			eS	34	39.00			N	20s	1.80um						TVO	136.86	257	ePKP	30	59.00	4.4X
EDM	86.40	324	ePd	24	13.20	0.4		E	20s	7.00um							1.2s	390.00nm					
BDW	86.42	313	ePd	24	12.50	-0.9				ePP	29	07.00				PPN	137.04	257	ePKP	30	59.00	4.1X
LRM	87.71	316	ePd	24	20.50	0.9				eSKS	35	48.00					1.2s	90.00nm					
BUT	87.74	316	eP	24	22.10	2.4				eS	36	38.00				PPT	137.18	257	ePKP	31	00.00	4.8X
TMI	87.97	314	eP	24	20.70	-0.2				eSP	38	00.00					1.2s	125.00nm					
MZX	88.02	293	eP	24	22.80	1.7				eSS	43	25.00				PAE	137.18	257	ePKP	31	00.00	4.9X
GBA	88.19	77	Pc	24	21.30	-0.8				ePSPS	44	14.00					1.2s	75.00nm					
	0.9s	117.00nm			6.2mb		ZAK	97.23	35	iPd	25	04.40	1.2			AFR	137.37	257	ePKP	31	01.00	5.5X
HYB	88.47	73	ePd	24	23.50	0.0		2.2s	270.00nm			6.5mb					1.2s	150.00nm					
	1.0s	350.00nm			6.6mb					eSKS	35	39.00				WBN	139.88	117	ePKP	30	51.00	-9.0X
HPI	88.70	314	eP	24	25.00	0.5	FHC	97.28	314	eP	25	02.50	-1.2			KNA	143.22	100	ePKP	31	01.00	-5.0X
RMU	88.78	308	iP	24	26.20	1.4	BOD	98.49	25	eP	25	07.70	-1.1			MTN	145.49	95	iPKPc	31	09.00	-0.9
KOD	88.90	80	eP	24	27.20	1.3		1.2s	30.00nm			5.8mb				ADE	145.89	137	iPKPd	31	10.90	0.7
MSU	89.35	309	eP	24	28.30	0.7	ILT	99.73	354	eP	25	19.00	4.8X			RAR	146.39	250	PKP	31	14.00	2.7X
DUG	89.40	311	eP	24	27.50	-0.2	Z	20s	13.00um			6.4Msz				GUMO	146.86	41	ePKP	31	13.00	0.9
INK	89.56	341	iPd	24	27.90	0.2	N	20s	9.00um							BFD	146.89	144	ePKP	31	12.00	0.4
	1.8s	554.00nm			6.5mb		E	20s	7.00um							ASPA	146.93	115	ePKP	31	11.00	-1.1
WMO	89.83	45	Pd	24	30.50	0.9				ePP	29	18.00				GUA	146.93	41	ePKP	31	13.00	0.7
			ePP	27	52.00					eSKS	35	54.00					0.8s	137.00nm					
			S	35	25.00					eSP	38	14.00				MSZ	147.28	182	PKP	31	14.00	2.0
NEW	90.10	319	eP	24	29.00	-1.6				eSS	43	40.00							PKS	34	57.20	
	Z 18s	6.00um			6.1Msz		GTA	99.87	46	eP	25	15.80	0.2			WRA	148.13	109	PKPc	31	14.60	0.5
PNT	91.32	321	eP	24	37.00	0.8	YAK	100.95	17	ePdiff	25	19.20	-0.4				0.7s	26.40nm					
	2.0s	526.00nm			6.5mb		N	20s	11.00um							WB2	148.14	109	ePKP	31	14.20	0.1
UER	91.46	37	iPd	24	36.00	-0.7	E	20s	19.50um										ePP	34	45.50	
			eS	35	35.50					iPP	29	22.80				TOO	148.24	147	ePKP	31	14.00	0.1
			eSPP	37	16.00					ePPP	31	44.80				STK	149.64	135	ePKP	31	16.00	-0.1
EUR	91.94	311	iP	24	40.00	0.5				iSKS	35	55.80				SNZO	149.79	192	ePKP	31	24.00	8.0X
	0.8s	33.60nm			5.8mb					eS	36	49.80					1.0s	480.00nm					
KKN	92.19	61	iPd	24	40.90	0.0	SPA	101.78	180	ePdiff	25	28.30	4.8X			WEL	149.80	192	PKP	31	21.60	5.5X
PKI	92.36	61	iP	24	41.60	-0.2		2.0s	52.90nm			5.8mb					1.0s	656.00nm					
	0.7s	110.00nm			6.4mb		TUP	103.15	26	ePdiff	25	33.00	3.4X			TCW	149.97	192	PKP	31	20.80	4.5X
BMN	92.57	312	ePd	24	42.30	0.0	LZH	104.18	48	ePdiff	25	36.00	1.1			WAM	151.04	150	ePKP	31	19.20	1.1
	2.0s	629.46nm			6.7mb					PP	29	58.50							e	32	39.00	
GLA	92.87	304	eP	24	44.00	0.3	SEY	104.68	7	ePdiff	25	53.00	16.8X			GNZ	151.41	199	PKPc	31	29.00	10.5X
TIK	92.99	11	eP	24	43.50	0.1	N	21s	9.00um							CAN	151.78	149	ePKP	31	19.90	0.6
	1.2s	80.00nm			6.0mb		E	20s	11.40um										i	32	30.50	
			ePP	28	22.00					iPP	30	00.20							e	33	30.10	
			ePPP	30	30.00					ePS	39	12.00				YOU	152.26	146	iPKP	31	20.80	0.8
			eSKS	35	14.00		CD2	106.35	53	Pdiff	25	47.40	2.9X						e	34	25.30	
			eS	35	51.00		CHG	106.81	66	ePdiff	25	40.00	-6.7X			CMS	152.72	139	ePKP	31	20.00	-0.7
			ePS	37	08.00		BDT	107.36	68	e(PKP)	30	02.00	3.8X			ISO	152.75	112	ePKP	31	21.00	-0.1
			eSPP	37	34.00			1.1s	59.30nm							KRP	152.81	196	ePKP	31	30.00	9.4X
BRW	93.41	349	eP	24	47.20	1.8	TIY	109.37	43	ePKP	29	41.00	-20.6X			RIV	154.05	150	ePKP	31	23.00	0.6
LON	93.60	319	eP	24	46.80	0.0	BJI	110.45	39	ePdiff	26	06.00	3.6X			COO	157.00	146	ePKP	31	27.00	0.4
GSC	93.80	307	eP	24	48.00	0.0	Z	19s	17.00um			6.6Msz					1.1s	132.00nm					
			e	28	33.00		N	20s	15.00um							AFI	158.69	262	PKP	31	31.00	2.1
MNA	93.88	310	eP	24	48.60	0.2				e	29	40.00				CTA	158.94	115	iPKPd	31	29.30	0.3
CLC	94.26	308	eP	24	53.00	2.9X				PP	30	37.50					2.0s	271.00nm					
VPEM	94.39	308	eP	24	52.20	1.4				PPP	32	53.50				PAA	167.84	64	ePKP	31	38.00	0.4
PLM	94.42	305	eP	24	52.00	1.0				PS	39	58.00				NOU	169.61	180	iPKPd	31	41.90	3.6X
			e	28	48.00		GYA	110.55	56	PKP	30	04.00	-0.2			KOU	171.10	167	iPKPc	31	41.20	2.1
CWC	94.44	308	eP	24	52.00	1.0	PSI	111.35	82	ePKP	29	48.00	-17.9X			HNR	173.16	70	ePKP	31	42.00	1.9
			e	28	35.00		IPM	112.92	80	ePKPd	30	08.30	-0.6				S.D. = 1.0		on 412 of 465 obs.				
BAR	94.47	305	eP	24	51.00	0.0	CN2	113.20	31	Pdiff	26	19.00	4.4X										
RVR	94.64	306	eP	24	52.00	0.2	CN2	113.20	31	PKP	30	07.00	-1.6				DEC 30, 1983 23h 52m 39.17± 0.16s						
SBB	94.78	307	eP	24	52.00	-0.5				PP	30	54.70					36.397 N ± 1.5km 70.752 E ± 0.9km						
			e	28	38.00					SKS	37	18.00					DEPTH = 206.5 ± 1.5 km						
ISA	94.99	308	eP	24	54.00	0.6	TIA	113.31	42	ePKP	30	15.10	6.0X				6.7mb (82 obs.)						
			e	28	43.00		PPI	113.50	85	ePKP	30	04.50	-5.6X			HINDU KUSH REGION						(718)	
MWC	95.11	306	eP	24	55.00	0.8	NJ2	116.91	45	PKPd	30	15.00	-1.1				Twelve people killed, 483						
			e	28	03.00					iPP	31	37.00					injured and extensive damage in						
PAS	95.22	306	eP	24	55.00	0.6	SHK	123.81	34	ePKP	30	27.90	-1.3				the Kabul and Somongan areas,						
	1.6s	100.00nm			6.0mb		MAT	124.99	28	iPKPc	30	30.80	-0.6				Afghanistan. Fourteen people						
			e	28	44.00		Z	20s	5.85um			6.2Msz					killed, hundreds injured and						
FRI	95.51	309	eP	24	55.10	-0.6	DDR	125.88	27	ePKP	30	31.50	-1.8				moderate damage in the Peshowar						
JAS	95.74	311	ePd	24	57.00	0.2	TSK	126.11	26	ePKP	30	32.60	-1.1				area, Pakistan. Some damage						
			ePP	28	45.00		BAG	126.63	59	ePKP	30	34.00	-1.4				(VII) in Tojikiston, USSR. Felt						
MIN	95.76	313	eP	24	57.20	0.2	TRT	126.86	91	iPKPc	30	35.00	-0.7				in much of northwestern						
COL	96.12	342	eP	24	58.00	0.0		0.8s	63.60nm								Afghoniston, northern Pakiston,						
	0.9s	10.10nm			5.3mb X		CVP	127.03	57	ePKPc	30	19.50	-16.3X				northern Indio and in						
	Z 19s	14.60um			6.5Msz		OCP	127.90	61	ePKP	30	49.00	11.4X				Tojikistan, Uzbekistan and						
			eS	37	36.00		PPR	127.92	68	ePKP	30	39.00	1.3				Kirghizia, USSR.						
FBA	96.12	342	e(P)	24	58.30	0.3	MUN	129.76	122	ePKP	30	41.00	0.3										
WDC	96.34	314	ePd	24	58.00	-1.4	NWAO	130.40	123	ePKP	30	44.00	2.1			KHO	1.25	30	iPn	53	13.10	1.2
PRI	96.51	309	iPd	25	00.90	0.4	BAL	130.45	120	ePKP	30	42.00	-0.1						eSn	53	38.10	
LSA	96.62	58	P	25	02.00	0.5	MEK	132.71	115	ePKP	30	46.00	-0.5			KUL	1.70	332	iPnc	53	16.00	0.4
MHC	96.84	310	eP	25	02.40	0.5		0.8s	61.00nm							OBG	2.46	341	iPn	53	23.00	-0.5
IRK	96.89	33	eP	25	01.20	-0.5	RUV	135.07	260	iPKP	30	55.00	3.8X			CGT	2.58	331	iPn	53	54.00	29.3X
	2.4s	200.00nm			6.3mb			1.2s	80.00nm							GAR	2.62	353	iPn	53	24.80	-0.5
			eSKS	35	40.00		TPT	135.29	261	iPKP	30	55.60	4.0X						eSn	53	57.80	
			eS	36	20.00			1.2s	190.00nm							DSH	2.67	325	iPnc	53	25.20	-0.6
			eSP	37	44.00		VAH	135.31	260	iPKP	30	55.60	4.0X			DZE	2.91	323	iPn	53	26.70	-1.8
			ePPS	38	28.00			1.2s	150.00nm							MUR	3.21	51	iPn	53	33.70	1.2
BKS	97.09	311	ePd	25	03.60	0.7	PMO	135.56	261	iPKP	30	55.90	3.8X			URT	3.77	339	iPn	53	38.00	-0.8
	Z 20s	6.00um			6.1Msz			1.2s	135.00nm							FRG	4.06	11	iPnd	53	43.00	0.5

30d 23h

				iSn	54	31.50					iPP	57	50.00			NRI		34.40	11	iPc	59	07.70	-0.3
SAM		4.42	319	iPnd	53	46.10	-0.9	MSL		22.20	278	ePd	57	20.50	1.5					esP	00	20.00	
				iSn	54	39.40						iS	01	02.50							ePP	00	37.00	
ANR		4.53	16	P	53	47.50	-0.9	ABS		22.27	292	iPc	57	22.40	2.7					iS	04	18.00	
NAM		4.64	9	iPnd	53	49.80	0.2					ePcP	01	16.00		CVO		34.49	300	iPc	59	10.00	0.8
				iSn	54	44.40		PYA		22.41	298	iPc	57	21.00	0.0	BUC1		34.63	297	iPc	59	12.00	1.7
TAS		5.05	347	iPnd	53	54.50	-0.5			1.0s	3500.00nm			6.9mb		MLR		34.66	299	iPc	59	12.00	1.3
				iSn	54	49.00						iPP	57	56.00		CGN		34.66	297	iPc	59	12.00	1.5
KSH		5.14	52	iPd	53	58.00	1.8	ZUG		23.05	294	iP	57	28.00	0.8	EZN		34.86	289	iPd	59	12.60	0.4
NRN		6.48	38	iPnd	54	12.00	-1.8	GTA		23.09	74	iPc	57	29.80	2.0	PUL		34.88	325	iPc	59	13.00	0.8
				iSn	55	23.80						S	01	27.50			Z	24s	210.00um			6.8MszX	
QUE		6.96	208	iPd-	54	20.00	0.2					pP	58	05.50	185kmX		N	11s	300.00um				
FRU		7.09	24	iPnd	54	21.00	-0.3	SOC		24.74	296	eP	57	42.00	-1.0		E	24s	210.00um				
				iSn	55	41.00		MOY		26.32	45	iPc	57	58.80	1.4					isP	00	20.00	
PRZ		8.48	42	iPnc	54	39.00	-0.7	ANN		26.61	299	iPc	57	59.50	-0.6					iPP	00	40.00	
	N	10s	396.00um							1.0s	2700.00nm			6.9mb						iPcP	01	36.00	
TLG		8.55	35	iPnd	54	38.60	-1.8					eS	02	18.00						iS	04	27.00	
	Z	14s	520.00um									iPP	58	48.00						isS	05	40.00	
				iSn	56	18.00		LZH		26.62	81	iPc+	58	02.00	1.5					iSS	06	52.00	
MHI		9.08	273	iPnd	54	45.20	-2.2					iS	02	27.00						iScS	09	12.00	
		0.4s	2370.00nm			6.8mb						isS	03	27.00						ipP	59	58.00	218kmX
				eSn	56	04.00						iSS	03	59.00		PRK		34.99	288	ePc	59	13.00	-0.4
NDI		9.43	143	iPd	54	51.00	-0.8					isP	58	54.00		DIM		35.13	293	iPc	59	15.00	0.5
		0.5s	585.00nm			6.1mb		ZAK		27.21	49	iPc	58	06.50	1.1	NNT		35.22	125	iPc	59	18.20	2.7
				iS	56	25.00				2.0s	4340.00nm			6.8mb		PVL		35.33	295	iPc	59	17.00	0.8
ASH		10.02	283	iPc	54	57.50	-1.9					eS	02	33.00		KDZ		35.34	293	iPc	59	16.00	-0.4
				iS	56	49.00						ePP	58	56.80						iS	01	04.00	
KHI		10.15	261	iPd	55	01.00	-0.4	KVT		27.36	291	iP	58	07.00	0.1	BJI		35.58	70	iPc	59	19.00	0.7
VAN		10.22	283	eP	54	59.00	-3.0X	CD2		27.93	92	iP	58	14.00	1.8					sP	00	28.00	
		3.0s	*******	nm		7.5mb						S	02	40.00						ePP	00	46.50	
KAT		11.80	288	iPd	55	19.00	-3.2X					sP	59	25.00						S	04	42.50	
WMQ		14.92	55	iPd	56	00.60	-0.7	IRK		28.45	45	P	58	16.00	-0.6					PcS	05	29.00	
				S	58	45.00		HRI		28.81	274	iP	58	21.50	1.4					sS	05	56.00	
DMN		14.99	122	eP	56	01.30	-1.1	SIM		28.87	299	P	58	19.00	-1.4					ScS	09	12.00	
KKN		14.99	121	eP	56	01.10	-1.3	MGI		29.30	273	iP	58	22.50	-1.7	PLD		35.77	294	iPd	59	20.00	0.1
PKI		15.22	121	eP	56	04.10	-1.2	KMI		29.57	103	iP	58	27.00	0.0	COZ		35.79	299	iPc	59	21.00	0.7
SEM		15.59	23	iPd	56	07.40	-2.0					iS	03	08.00		DRA		35.88	298	eP	59	22.00	1.2
		2.3s	8540.00nm			6.8mb						pP	59	06.00	191kmX	LVV		36.06	307	P	59	23.50	1.2
TEH		15.68	273	eP	56	13.00	2.3					sP	59	39.00		CJR		36.27	301	iP	59	25.60	1.5
IR4		16.15	272	iPd	56	17.10	0.7	MOS		29.61	321	iPc	58	26.00	-0.8	NPS		36.36	282	ePc	59	24.60	-0.4
SHI		16.69	251	iPd	56	22.50	-0.5					eS	03	04.00		OUR		36.55	291	iPc	59	27.00	0.5
LNK		17.53	284	eP	56	29.00	-2.9					isS	04	18.00		MMB		36.56	293	iP	59	26.00	-0.6
POO		18.00	170	iPd	56	38.60	1.5	JER		29.70	272	ePc	58	29.00	1.1	WHN		36.60	86	iPc	59	28.80	1.8
LSA		18.34	105	iPc	56	43.50	2.4	OBN		29.89	320	P	58	28.00	-1.2	SRS		36.72	292	iPc	59	28.20	0.2
				S	00	00.50		BSO		30.44	271	iP	58	31.50	-2.8	DEV		36.78	300	ePc	59	30.50	2.2
MAK		19.09	297	iPc	56	48.70	0.6	KDE		30.83	291	iP	58	36.50	-1.1	VTS		36.82	295	iP	59	31.00	2.3
		6.0s	8200.00nm			6.4mb X		BTO		30.84	70	iPc	58	38.50	0.7	CEI		37.04	303	eP	59	33.00	2.5
	Z	13s	352.00um									S	03	28.00		TIA		37.09	76	iPc	59	32.20	1.1
	N	14s	456.00um					XAN		31.14	83	iPc	58	41.00	0.6					pP	00	20.00	225kmX
	E	14s	713.00um									S	03	30.00						sP	00	44.00	
				iS	00	10.80		BDT		31.43	120	iPc	58	44.40	1.4					PP	01	08.00	
KER		19.38	271	iP	56	52.50	1.1	GPA		31.76	290	iPc	58	45.70	-0.1					S	05	05.50	
GRS		19.49	287	P	56	53.60	1.1	BCK		31.96	284	iP	58	45.90	-1.7					ScS	09	18.60	
TAB		19.51	282	ePc	56	54.00	1.3	HHC		31.99	69	iPc	58	49.00	1.2	UZH		37.15	305	iPc	59	32.50	1.1
				i	56	56.00						S	03	45.00				2.0s	5400.00nm			6.8mb	
HYB		20.13	158	iPd	57	00.00	1.1					pP	59	34.00	220kmX					ePP	01	00.00	
				iS	00	28.00		GYA		32.05	98	Pc	58	51.00	2.5					ePcP	01	52.00	
NAK		20.21	286	iPc	57	00.50	1.0					S	03	45.00						iS	04	55.00	
GRO		20.41	298	iPc	57	02.50	1.1	ALT		32.07	287	iP	58	48.00	-0.5	ATH		37.20	287	iPc	59	32.50	0.6
		1.0s	5700.00nm			7.1mb		HRT		32.19	291	iP	58	49.10	-0.4					eS	04	50.00	
				iS	00	39.00		ELL		32.63	283	iPc	58	52.90	-0.6	KNT		37.24	292	iPc	59	32.30	0.0
NVS		20.42	21	eP	57	00.00	-1.4	ISK		32.63	291	iPc	58	53.40	0.2	THE		37.27	291	iPc	59	33.20	0.7
MTA		20.80	293	iPc	57	06.80	1.5	KIS		32.67	302	iPc	58	53.00	-0.5	VAY		37.46	293	iPc	59	34.00	-0.1
				eS	00	43.00			Z	19s	168.00um			6.8Msz		GRG		37.64	292	iPc	59	35.00	-0.7
ERE		20.92	288	iPc	57	09.00	2.3					iS	03	53.00		APA		37.67	338	iPd	59	35.00	-0.5
STE		21.05	291	iPc	57	09.20	1.2					ipP	59	33.00	192kmX			1.3s	5600.00nm			7.0mb	
LEN		21.44	290	iPc	57	16.00	4.2X	KHT		32.87	124	iPc	58	58.50	3.0X					ipP	00	14.00	182kmX
		3.0s	*******	nm		7.7mb X		TIY		33.10	75	iPc	58	58.00	0.6					isP	00	48.00	
SVE		21.52	345	iPc	57	13.00	0.7					sP	00	11.00						iPP	01	06.00	
	Z	15s	815.00um			7.2MszX						PcP	01	39.00						iS	05	09.00	
	N	15s	638.00um									S	04	00.00		LIT		37.72	291	eP	59	37.10	0.8
	E	15s	235.00um									ScP	05	04.00		NUR		37.79	324	iPc+	59	37.00	0.4
				iS	00	53.00						sS	05	10.05		KJF		37.88	331	iPc+	59	37.80	0.5
				iPP	57	53.00						pP	59	46.50	239kmX	SUF		37.90	328	iPc	59	38.00	0.5
ARU		21.63	341	iPc	57	14.50	1.2	PSN		33.10	296	iPc	58	58.00	0.8			0.5s	224.00nm			6.0mb	
	Z	18s	458.00um			6.9Msz		DST		33.13	289	iPc	58	57.60	-0.1	TUP		38.02	46	iPc	59	39.80	1.2
	N	20s	299.00um					HLW		33.47	270	iPc	59	02.00	1.4			1.0s	820.00nm			6.3mb	
	E	16s	443.00um					PPE		33.49	301	iPd	59	01.00	0.4	BSI		38.12	138	iPc	59	38.50	-1.3
				iS	01	00.50		DMK		33.53	293	iPd	59	00.80	-0.2					e	05	14.00	
				eSS	01	52.00		EDC		33.61	290	iPd	59	01.40	-0.3	SKO		38.20	294	iPc	59	40.40	0.1
				ePP	57	52.50		CLI		33.73	301	iPc	59	03.00	0.3					iS	05	17.00	
				esP	58	20.50		YER		33.82	284	iPc	59	01.70	-1.9	KZN		38.22	291	iPc	59	40.00	-0.6
AKH		21.76	292	iPd	57	19.60	4.7X	BAC		34.00	301	eP	59	05.00	0.1	JOS		38.32	304	iPc	59	41.60	0.4
BKR		21.76	293	iPc	57	16.80	1.9	VRI		34.11	300	iPc	59	06.00	0.1	SPC		38.51	306	eP	59	44.60	1.6
				iS	01	03.70		ISR		34.24	299	iPc	59	08.00	0.9					eS	05	13.60	
BHD		21.84	270	iPc	57	16.50	0.9	JMB		34.35	294	iPd	59	09.00	1.1	KRA		38.71	307	iPc	59	44.70	0.3
				iS	01	03.00		IZM		34.37	287	iPc	59	08.10	-0.2			1.5s	4700.00nm			6.9mb	

30d 23h

Z	18s	145.00um				6.8Msz
			i	04 44.00		
			iS	05 24.00		
			i	59 45.30		
PSZ	38.76	304	iPc	59 46.60	1.6	
OHR	38.81	293	iPc	59 44.10	-1.3	
			i	01 30.50		
			iS	05 24.10		
GZH	38.98	98	iPc	59 48.00	1.1	
			pP	00 35.50		226kmX
			sP	01 00.00		
			PP	01 27.00		
			iS	05 30.00		
			sS	06 51.00		
BUD	39.37	303	iPc	59 50.00	0.2	
	2.0s	5250.00nm				6.8mb
VLS	39.56	288	eP	59 50.50	-1.0	
MCO	39.64	99	iP	59 54.90	2.6	
NJ2	39.69	82	iPc	59 53.50	0.9	
			i	00 34.00		
			ScP	05 23.80		
			iS	05 43.00		
			ScS	09 36.20		
TTG	39.73	295	iPc	59 52.50	-0.3	
			e	00 00.21		
			ePPP	01 33.00		
			iS	05 40.00		
SOD	39.75	335	iP	59 52.70	0.1	
ULC	39.81	294	iPc	59 52.40	-1.2	
			eS	05 39.80		
AAE	39.82	235	eP	59 56.50	2.3	
SRO	39.83	303	iPc	59 53.70	0.1	
			eS	05 36.10		
DL2	39.94	71	iPc	59 55.50	0.9	
			i	00 37.00		
			S	05 49.00		
HKC	40.04	98	iP	59 57.50	2.0	
			iS	06 20.00		
BRY	40.18	296	iPc	59 56.40	-0.3	
			eS	05 48.30		
HCY	40.29	295	iPc	59 56.60	-0.8	
			eS	05 47.70		
ZST	40.62	304	eP	00 00.00	-0.1	
			e	09 07.50		
SNY	40.81	66	iPc	00 01.70	0.0	
			ScP	05 30.00		
			iS	05 50.00		
KEV	40.82	338	iPc+	00 02.00	0.6	
BLY	40.89	299	eP	00 04.00	1.6	
UPP	41.03	322	iPc	00 02.90	-0.3	
			iS	05 55.00		
KSP	41.04	308	iPc	00 03.80	0.3	
	0.9s	1020.00nm				6.3mb
			iPP	01 46.00		
VIE	41.11	304	iP+	00 05.20	1.1	
			isP	01 19.00		
			iPP	01 48.00		
			(PPP)	02 26.00		
			iS	06 04.80		
VKA	41.14	304	iPc	00 05.10	0.7	
	1.0s	1720.00nm				6.5mb
			i	00 06.00		
			i(sP)	01 22.00		
			iPP	01 48.00		
			i	05 34.00		
			iS	06 01.50		
			iSS	09 05.00		
BRT	41.53	293	iPc	00 07.00	-0.6	
CN2	41.83	62	iPc	00 09.80	-0.3	
SSE	41.89	82	iPc+	00 11.50	0.9	
	5.0s	49.30nm				4.3mb X
E	13s	101.00um				
			(pP)	00 59.00		224kmX
			sP	01 12.00		
			PP	01 49.00		
			i	03 02.00		
			PcS	05 57.00		
			iS	06 13.00		
			sS	07 21.00		
			SS	09 20.00		
			(ScS)	09 36.00		
IPM	42.14	132	ePc	00 14.20	1.3	
			e	00 38.10		
			e(S)	00 56.60		
			e	01 12.90		
			e	01 26.20		
			e	01 58.90		
			i	02 43.70		
			e	03 31.90		
PRU	42.20	307	iPc	00 13.50	0.6	
	2.0s	5820.00nm				6.7mb
			i	05 31.50		
			S	06 14.00		
ORI	42.27	292	iPc	00 13.50	-0.1	
QZH	42.32	92	iPd	00 14.50	0.3	
			pP	00 59.50		210kmX
			S	06 20.50		
			ScS	09 52.00		
BRG	42.53	308	iPc+	00 16.10	0.5	
			(sP)	01 26.00		
			iScP	05 34.00		
			iS	06 19.00		
			esS	07 43.00		
LJU	42.58	301	iPc	00 16.60	0.5	
			i(pP)	01 08.70		249kmX
			iPP	02 00.20		
			iPcS	05 34.10		
			eS	06 22.00		
KMR	42.62	304	iP+	00 17.00	0.6	
CEY	42.69	301	iPc	00 17.30	0.3	
KHC	42.88	306	iPc	00 18.60	0.0	
	1.0s	378.00nm				5.9mb
Z	12s	81.00um				6.8MszX
N	12s	169.00um				
E	14s	113.00um				
			e	03 12.00		
			e	05 53.50		
			iS	06 28.00		
			e	09 36.00		
BRN	42.93	311	iPc	00 19.70	0.9	
SGO	43.00	293	iPc	00 20.00	0.5	
HFS	43.02	322	iP	00 19.40	-0.1	
	0.7s	7060.00nm				7.3mb
CLL	43.10	309	iPc	00 20.10	-0.1	
	2.5s	7800.00nm				6.8mb
			ipP	01 11.00		241kmX
			iS	06 29.40		
			isS	07 50.00		
TRI	43.16	301	iPc	00 20.50	-0.2	
			ipP	01 04.80		206kmX
			iPP	02 04.70		
			ipPPP	03 17.50		
			iS	06 30.40		
			isS	07 47.90		
			eSS	09 51.80		
			isSS	11 01.60		
RBL	43.19	302	iPc	00 21.00	-0.1	
WET	43.34	306	iPc	00 22.00	-0.2	
			eS	06 32.00		
RCI	43.35	290	eP	00 23.50	1.1	
COP	43.37	315	iPc	00 23.80	1.5	
			iS	06 30.00		
DUI	43.39	295	iP	00 23.00	0 4	
	1.6s	4100.00nm				6.7mb
MSI	43.39	290	iPc	00 23.50	0.8	
BHG	43.49	304	iPc	00 23.50	0.0	
KLM	43.69	132	ePd	00 21.50	-3.8X	
	0.7s	117.00nm				5.5mb X
			e	02 09.00		
ALP	43.80	297	iPc	00 26.00	0.1	
HOF	43.88	308	iPc	00 27.00	0.4	
AQU	44.01	296	iPc	00 28.00	0.3	
MOX	44.02	308	iPc	00 27.50	-0.2	
	1.0s	2030.00nm				6.6mb
Z	15s	163.00um				7.1MszX
N	13s	175.00um				
E	13s	143.00um				
			i	01 01.00		
			ipP	01 20.00		249kmX
			i	01 38.00		
			iPP	02 15.00		
			isPP	03 28.00		
			iS	06 44.00		
			isS	08 05.00		
YAK	44.18	35	iPd	00 28.20	-0.5	
	4.0s	********nm				7.3mb X
N	13s	132.00um				
			iPcP	02 12.20		
			iPPP	03 02.00		
			iS	06 44.00		
POI	44.30	296	iPc	00 30.20	0.3	
NB2	44.34	323	P	00 29.40	-0.7	
	1.1s	3740.00nm				6.8mb
GRF	44.36	307	iPc	00 31.40	1.0	
	1.9s	7150.00nm				6.8mb
Z	20s	247.00um				7.1Msz
			epP	01 24.70		253kmX
			esP	01 42.50		
			ePP	02 17.00		
			eS	06 52.00		
SCE	44.37	303	iPc	00 29.50	-1.2	
FUR	44.50	305	iPc	00 31.90	0.4	
	1.6s	6370.00nm				6.8mb
			eS	06 47.00		
MNS	44.53	296	iPc	00 31.20	-0.5	
CTI	44.56	302	iPc	00 31.50	-0.6	
ANP	44.57	90	iP+	00 36.00	3.6X	
KHE	44.61	357	P	00 34.00	2.1	
GIB	44.62	290	iPc	00 31.50	-1.2	
	0.8s	3400.00nm				6.8mb
MDJ	44.63	60	iPc	00 32.80	0.3	
			sP	01 36.00		
			PcP	02 12.00		
			PP	02 24.00		
			iS	06 56.00		
			sS	08 07.00		
RMP	44.64	295	iPc	00 34.40	1.8	
			iPP	02 27.40		
			iS	06 48.40		
			iSS	09 59.40		
RDP	44.64	295	iPc	00 32.50	-0.2	
GAP	44.74	304	iPc	00 32.70	-0.7	
	0.8s	1030.00nm				6.3mb
OGA	44.86	303	iPc	00 33.80	-0.8	
HAM	44.87	312	iPc	00 35.50	1.2	
KONO	45.04	321	iP+	00 35.20	-0.3	
MUD	45.21	317	iPc	00 37.00	0.1	
FIR	45.25	299	iPc	00 38.00	0.6	
			iS	07 04.00		
SAL	45.41	301	iPc	00 39.00	0.4	
OSS	45.49	303	eP+	00 38.60	-0.9	
KGM	45.56	131	iPc	00 41.40	1.3	
	0.5s	934.00nm				6.5mb
			i	00 56.00		
			e	07 07.00		
ERC	45.69	290	iPc	00 39.00	-1.9	
STU	45.79	306	iPc+	00 41.70	0.0	
	1.0s	2100.00nm				6.5mb
Z	20s	34.00um				6.3Msz
SAX	45.93	304	eP+	00 42.20	-0.9	
TIK	45.94	22	iPc	00 43.00	0.5	
	0.8s	1550.00nm				6.5mb
			epP	01 32.00		228kmX
			esP	01 55.00		
			ePP	02 34.00		
			ePPP	03 21.00		
			eS	07 08.00		
			esS	08 32.00		
TNS	46.08	308	iPc	00 44.00	0.0	
			ePP	02 41.00		
			e	05 49.00		
			eS	07 15.20		
			eSS	10 14.00		
LLS	46.23	303	eP+	00 44.30	-1.1	
SLE	46.41	304	eP+	00 45.40	-1.2	
BUH	46.44	306	eP	00 43.00	-3.9X	
TMA	46.45	302	eP+	00 45.70	-1.5	
ZUL	46.53	304	eP+	00 46.30	-1.3	
VLA	46.57	62	iPc	00 47.50	-0.3	
WIT	46.88	312	iPc	00 50.40	0.3	
			i	00 55.60		
			epP	01 38.00		220kmX
			isP	02 06.20		
			iPPP	03 44.00		
			eSS	11 35.00		
WTS	46.89	310	iPc	00 50.20	0.0	
	0.9s	830.00nm				6.2mb
			e	00 56.00		
			epP	01 37.00		216kmX
			esP	02 07.00		
			eSS	11 37.00		
ISI	47.10	89	Pc	00 51.60	-0.6	
CDF	47.11	306	iPc	00 51.30	-0.8	
	0.8s	700.00nm				6.1mb
ORO	47.16	302	e(P)	00 39.50	-13.1X	
IZU	47.19	75	eP	00 53.00	0.2	
			e	07 35.00		
BER	47.20	322	iP+	00 52.20	-0.3	
CVF	47.23	297	iPc	00 52.00	-1.0	
			pP	01 37.80		210kmX
FKJ	47.37	77	ePc	00 55.00	0.9	

31d 00h

			e	09	04.00					pP	02	13.90	211kmX	MIY	54.83	63	Pc	01	49.40	-0.5
DIX	47.46	302	eP+	00	54.20	-0.8	WAJ	51.90	68	ePc	01	28.00	-0.5	OFU	54.86	64	Pc	01	49.50	-0.6
BSF	47.53	305	iPc	00	54.70	-0.7				e	10	00.00					eS	09	13.00	
ENN	47.60	309	iPc	00	55.30	-0.4	OSK	51.96	72	Pc	01	29.50	0.4	MIT	54.93	68	eP	01	49.00	-1.7
	0.8s	422.00nm			5.9mb					eS	08	25.00					eS	09	13.00	
			i	01	01.00		LPO	52.05	302	iPc	01	29.00	-0.6	ABJ	54.96	58	P	01	50.70	-0.1
			epP	01	42.50	217kmX		0.6s	656.00nm			6.4mb					eS	10	47.00	
HAU	47.79	305	iPc	00	56.80	-0.5	FLN	52.07	307	iPc	01	28.30	-1.4	KYS	55.14	69	eP	01	51.30	-0.9
	1.0s	1500.00nm			6.4mb			1.2s	2890.00nm			6.8mb		LGR	55.29	300	iPc	01	53.20	-0.1
			pP	01	43.10	212kmX	MVI	52.10	84	eP	01	31.00	0.8		1.7s	6.00nm			4.0mb	X
MYK	47.79	88	eP	00	58.00	0.5	HIK	52.16	71	eP	01	31.00	0.5				i	02	44.00	
DBN	47.87	311	iPc	00	58.00	0.2	EKA	52.22	316	Pd	01	29.70	-1.0				iPcP	03	02.00	
			isP	02	06.00			1.0s	1110.00nm			6.4mb					iS	09	16.50	
			iPP	02	53.00		LFF	52.29	302	iPc	01	30.70	-0.6	ALI	55.31	295	iP-	01	53.00	-0.4
			ePPP	03	54.00					pP	02	17.30	209kmX				iS	09	18.50	
			iS	07	37.00		GRR	52.41	307	iPc	01	30.80	-1.3	KUS	55.39	59	eP	01	53.00	-0.9
			e	08	37.00		MFF	52.41	305	iPc	01	31.00	-1.2				e	08	48.00	
			i	08	49.00		SHJ	52.48	73	iPc	01	33.50	0.7	CHO	55.46	68	Pc	01	55.00	0.5
			i	09	02.00					e	08	46.00					S	09	30.60	
			iScS	10	15.00		SUT	52.56	60	Pc	01	32.80	-0.5	RLA	55.57	292	iP	01	56.00	0.7
			eSS	11	06.00					e	10	08.00		NEM	56.09	58	Pc	01	57.10	-1.7
			i	11	32.00		LPF	52.62	307	iPc	01	32.10	-1.5				eS	09	30.00	
NGS	48.17	76	Pc	01	01.00	0.7	WAK	52.76	57	eP	01	35.00	0.3	CGP	56.21	106	ePc	02	01.50	1.4
			eS	09	10.00					e	10	12.00			1.0s	899.00nm			6.4mb	
BAG	48.29	101	iPc+	01	02.00	0.4	YSS	53.00	55	iPc	01	36.00	-0.5	BKB	56.88	121	iPd	02	06.00	1.3
			iS	07	27.00			1.2s	2430.00nm			6.7mb			1.5s	4920.00nm			7.0mb	
DOU	48.55	308	Pc	01	03.20	0.2		Z 16s	74.10um			6.8MszX		KUR	56.96	55	iP	02	04.00	-0.9
			pP	01	48.60	207kmX		N 16s	60.30um								ePcP	02	56.00	
			S	07	50.50			E 16s	82.10um								esP	03	18.00	
			ScS	10	31.10					ePPP	04	53.00		AKU	57.02	330	iP	02	05.90	0.9
CVP	48.56	98	ePd	01	04.00	0.5				iS	08	51.00			1.2s	4560.00nm			7.1mb	
			eS	01	17.00					eSP	09	00.00		VAL	57.17	313	iP	02	05.20	-1.1
FRF	48.56	299	iPc	01	02.60	-0.6	EPF	53.13	300	iPc	01	35.60	-2.0				iS	09	36.00	
UCC	48.58	309	iPc	01	03.00	-0.2		0.6s	12.50nm			4.7mb	X	TOL	57.31	298	iPc	02	07.00	-0.5
	4.0s	2740.00nm			6.0mb	X	RMJ	53.17	58	Pc	01	38.30	0.6		1.0s	250.00nm			5.9mb	
KBS	48.67	347	iP+	01	04.60	1.0	MAT	53.18	68	iPc+	01	36.70	-1.3				i	02	19.00	
LMR	48.71	299	iPc	01	03.60	-0.8				eS	08	50.00					i(pP)	02	57.00	222kmX
	1.0s	656.00nm			6.0mb		HAK	53.23	61	Pc	01	37.50	-0.7				i	03	23.00	
LRG	48.79	299	iPc	01	04.30	-0.6				e	08	51.00					iPP	04	12.00	
NAI	49.00	228	iPd	01	09.00	1.9	SAP	53.24	60	Pc	01	38.00	-0.2				iPPP	05	22.00	
	1.8s	1770.00nm			6.2mb					S	08	55.50					(PcS)	06	34.00	
HMD	49.10	73	eP	01	07.00	-0.4	IID	53.28	70	Pc	01	38.50	-0.2				iS	09	44.00	
			e	09	23.00					e	02	35.00					(ScS)	11	36.00	
KAG	49.14	77	eP	01	08.00	0.2	ABA	53.28	292	iP	01	37.00	-1.7				iSS	13	04.00	
OIT	49.35	75	Pc	01	10.50	1.2				iS	09	00.00		BNG	57.43	249	iPc	02	06.50	-2.1
			eS	08	15.00		NII	53.31	66	ePd	01	38.30	-0.6		0.9s	15.00nm			4.7mb	X
HIR	49.57	73	eP	01	09.00	-2.0	ASA	53.73	59	Pc	01	41.50	-0.4	DAV	57.74	106	iPc+	02	11.40	0.6
LBF	49.58	304	iPc	01	09.80	-1.2	EBR	53.73	298	eP	01	42.00	0.0				eS	09	56.00	
LOR	49.59	305	iPc	01	10.00	-1.1				e	04	56.00		CRT	58.04	295	iPc	02	11.00	-1.7
	0.9s	563.00nm			6.0mb					e	08	48.00		ALR	58.13	293	iP	02	12.50	-0.7
			pP	01	56.80	213kmX				(S)	08	58.00					i	02	15.00	
SAI	49.61	70	Pc	01	11.00	-0.3	CNP	53.75	102	ePc	01	43.50	1.1				i	02	25.00	
NOB	49.64	76	Pc	01	11.20	-0.4				eS	02	11.20					i	03	05.00	
			eS	07	46.00		KOF	53.77	69	eP	01	41.00	-1.3	MAL	58.82	295	iPc	02	15.70	-2.3
OCP	49.69	102	eP	01	21.00	8.9X	DDR	54.12	69	eP	01	42.60	-2.4				iS	10	04.50	
MYZ	49.69	76	eP	01	12.00	0.0	YAM	54.15	66	Pc	01	44.70	-0.3	TRT	58.89	129	ePc	02	17.00	-1.7
SHK	49.70	73	iPc	01	11.80	-0.2	HAC	54.20	63	iPc	01	44.50	-0.9		0.5s	539.00nm			6.5mb	
SMF	49.75	304	iPc	01	11.60	-0.6	MRK	54.23	64	iPc	01	45.20	-0.4				e(S)	04	35.20	
TAJ	49.82	78	eP	01	12.00	-1.0				eS	09	09.00		REY	59.03	329	iPc	02	20.10	1.0
SSF	49.87	304	iPc	01	12.30	-0.9	OYM	54.37	69	eP	01	42.00	-4.8X	NPA	59.22	216	iP	02	22.00	1.1
AVF	50.04	304	iPc	01	13.60	-0.8	AJI	54.41	70	ePd	01	46.00	-0.9				e	06	17.00	
OKA	50.59	72	eP	01	19.00	0.2	FKS	54.42	66	Pc	01	47.00	0.0				eS	10	10.00	
			e	08	16.00					eS	09	10.00		STS	59.29	303	iPnd	02	21.00	-0.1
MZF	50.69	304	iPc	01	19.10	-0.3	UTS	54.42	68	Pc	01	46.00	-1.0				iSn	10	14.00	
KOC	50.72	74	eP	01	20.00	0.3				e	09	08.00		PTO	60.02	301	iPc	02	25.30	-0.7
TKM	50.84	73	eP	01	20.00	-0.6	URA	54.54	60	eP	01	47.00	-0.8				iS	10	22.00	
			eS	09	39.00		SEN	54.55	65	Pc	01	47.50	-0.4	SKR	60.18	47	iPc	02	25.00	-2.0
TCF	50.93	304	iPc	01	20.70	-0.5				eS	09	12.00			1.8s	7100.00nm			7.1mb	
			pP	02	07.30	210kmX	DLE	54.62	314	iPc	01	46.90	-1.3		Z 18s	86.40um			6.9Msz	
HIM	51.14	72	Pc	01	23.00	0.1		1.2s	2400.00nm			6.7mb			N 18s	86.40um				
			eS	08	40.00		SEY	54.63	34	iPc	01	48.00	-0.2		E 18s	43.20um				
MRT	51.33	74	P	01	25.00	0.6		1.4s	1720.00nm			6.5mb					iSP	03	40.00	
			e	08	32.00					iPP	03	51.00					iS	10	18.00	
TKS	51.33	73	iPc	01	25.10	0.8				iS	09	10.00					iScS	11	50.00	
CAF	51.38	302	iPc	01	24.10	-0.6				isS	10	29.00		SFS	60.24	295	iPc	02	26.00	-1.6
LSF	51.39	304	iPc	01	23.80	-0.9				iSS	12	52.00					i	02	43.00	
KOB	51.56	72	Pc	01	26.50	0.4	TOK	54.66	69	P	01	46.10	-2.6				ipP	03	06.00	171kmX
			e	09	54.00		DMU	54.67	315	iPc	01	47.60	-1.0				iPP	03	44.00	
RJF	51.65	303	iPc	01	26.20	-0.5		1.2s	2900.00nm			6.8mb					iPPP	05	50.00	
SET	51.72	291	iP	01	27.00	-0.4	YOK	54.68	69	ePc	01	49.00	0.1				iS	10	23.00	
WKY	51.72	72	iPc	01	28.00	0.7	TSK	54.72	68	eP	01	47.40	-1.8				iSS	13	20.00	
			eS	08	33.10		OSH	54.73	70	P	01	49.00	-0.3	IFR	60.72	292	iPc	02	30.50	-0.7
OSA	51.83	72	Pc	01	28.50	0.5	ISN	54.78	65	Pc	01	48.50	-1.1	PET	60.75	44	iPc	02	28.00	-2.9
			eS	08	24.00					eS	09	14.00			1.2s	2600.00nm			6.8mb	
KYO	51.87	71	Pc	01	28.50	0.2	DAG	54.80	344	iPc	01	48.40	-0.8				ePP	04	46.00	
			eS	08	33.00			1.4s	2560.00nm			6.7mb					iS	10	20.00	
LDF	51.88	307	iPc	01	27.00	-1.3				iS	09	14.00					eScS	11	52.00	

31d 00h

			eSS	14	36.00		LAT	82.96	104	iPc	04	43.00	0.6				epP	07	26.00										
MNI	60.80	112	eP	02	31.00	-0.7	KVG	83.51	98	iPc	04	45.50	0.3	BKS	105.13	11	ePKP	10	22.00	-16.0X								
	1.2s	2710.00nm			6.8mb		SIT	84.33	14	ePc	04	49.90	1.3				i	10	44.00										
LIS	61.40	299	iPc	02	35.30	-0.1	FCC	84.36	352	iPc	04	49.40	0.7				ePP	10	59.00										
AVE	62.52	292	iPc	02	41.60	-1.4	ASPA	84.36	125	iPc	04	49.00	-0.3				epP	11	45.00										
ILT	63.92	23	P	02	51.50	-0.1	PMG	84.77	106	ePc	04	50.00	-1.4				esPP	12	02.00										
MTD	64.55	222	iPd	02	56.00	-0.3	LMG	85.24	105	eP	04	53.00	-1.0				epPPP	14	11.00										
			iS	11	12.00		ISQ	86.25	119	iPc	04	58.00	-0.7				e	15	09.00										
KRI	65.67	224	iPd	03	03.00	-0.6	FFC	89.03	356	iPc	05	11.30	-0.2				iSKS	16	47.00										
			iS	11	29.00		CTA	90.68	114	iPc+	05	19.00	-0.5				iSKKS	17	25.00										
AAI	66.70	114	iPc	03	08.70	-1.3				i	06	11.00					iS	18	25.00										
GDH	67.04	341	iPc	03	11.10	-0.4				i	08	54.00					ePS	19	30.00										
	2.0s	1480.00nm			6.4mb					iS	15	20.00					esS	20	09.00										
			iS	11	48.00		EDM	90.68	2	ePc	05	19.70	0.5				eSPP	20	54.00										
MBC	67.45	3	iPc	03	14.30	0.4				pP	06	17.00	234kmX				esPS	21	17.00										
BUL	68.91	223	iPd-	03	23.50	-0.2	PHC	91.80	11	ePc	05	25.00	0.7				e	23	30.00										
	0.7s	959.00nm			6.6mb			1.1s	1570.00nm			7.0mb					eSS	26	47.00										
			iS	12	04.90		RSON	92.05	350	iPc	05	25.30	-0.2				e	27	46.00										
SMY	69.17	39	ePd	03	23.80	-0.9		1.8s	1740.00nm			6.8mb					e	29	55.00										
GUMO	69.35	88	eP	03	24.00	-2.4				pP	06	20.00	222kmX				e	33	11.00										
	1.5s	4770.00nm			7.0mb		BNH	92.35	334	iP	05	27.90	0.9				e	34	42.00										
GUA	69.41	88	eP	03	24.50	-2.4	MNT	92.36	336	eP	05	27.50	0.5				e	36	00.00										
	1.5s	3670.00nm			6.9mb			1.6s	540.00nm			6.4mb					e	36	40.00										
Z	20s	51.80um			6.8Msz		OTT	93.14	337	ePc	05	31.50	0.9	JAS	105.31	9	ePdiff	06	26.00	0.6								
TEN	71.50	292	iPc	03	37.50	-1.7		1.0s	303.00nm			6.4mb					epP	07	26.00										
			iPP	06	15.20		RSNY	93.51	336	eP	05	32.70	0.3				ePP	10	45.00										
			iS	12	41.40			1.8s	1080.00nm			6.7mb					epPP	11	45.00										
NAU	72.27	137	iPc	03	43.80	0.2				pP	06	27.60	223kmX				ePKKP	22	04.00										
IMA	72.28	17	iPc	03	43.00	-0.4	SES	93.57	1	iPc	05	32.50	-0.1	MHC	105.74	10	ePdiff	06	28.20	0.8								
SLR	73.64	219	iPc	03	52.10	0.3	LHC	93.70	347	iPc	05	33.00	-0.2	SAO	106.33	10	ePdiff	06	29.60	-0.3								
	1.8s	5730.00nm			7.0mb			1.1s	738.00nm			6.7mb		FRI	106.34	9	ePdiff	06	30.40	0.5								
MBL	73.66	133	iPd	03	51.80	0.0	PNT	94.17	7	iPc	05	35.80	0.5	RMU	106.88	1	ePdiff	06	33.60	1.0								
EVA	73.87	218	iPc	03	53.70	0.6	PGC	94.39	9	ePc	05	37.00	0.7	PRI	107.05	10	ePdiff	06	34.60	1.3								
INK	74.06	9	iPc	03	53.60	0.2		1.5s	207.00nm			6.1mb					ePKKP	22	00.00										
	0.9s	750.00nm			6.4mb		VSG	94.58	98	P	05	36.00	-1.7	CWC	107.07	7	ePdiff	06	34.00	0.6								
BPI	74.13	219	iPc	03	54.50	-0.1	SVO	94.61	98	P	05	37.00	-0.7	NOU	107.29	105	iPdiff	06	35.00	0.5								
TTA	74.19	20	iPc	03	54.70	0.3	HNR	94.88	98	eP+	05	38.00	-1.0	NOU	107.29	105	iPKPc	10	44.00	1.5								
ADK	74.23	36	ePd	03	51.90	-2.8				e(S)	16	34.00		SYO	107.61	191	ePdiff	06	37.60	2.8X								
KSR	74.46	220	iPc	03	56.30	-0.3	STK	94.89	126	iPc	05	37.50	-1.2	CLC	107.74	7	ePdiff	06	38.00	1.7								
KIC	74.58	267	iPc	03	56.00	-1.3	ADE	95.07	130	iPc	05	39.00	-0.5	CLC	107.74	7	ePKP	10	36.00	-7.1X								
			e	13	06.30			0.9s	269.00nm			6.5mb					e	11	13.00										
COL	74.62	16	iPc	03	56.70	-0.1	NEW	95.42	5	iPc	05	42.20	1.0	ISA	107.80	8	ePdiff	06	37.00	0.5								
			PP	06	57.00		Z	20s	60.00um			7.1Msz		ISA	107.80	8	ePKP	10	51.00	7.8X								
FBA	74.62	16	iPc	03	56.90	0.1				e	06	38.00		CAI	108.24	275	ePdiff	06	40.20	1.3								
MTN	75.02	119	iPc	03	58.50	-1.2	ELF	96.80	340	P	05	47.50	0.1	GSC	108.32	7	ePdiff	06	41.00	2.1								
PRY	75.03	219	eP	03	59.00	-0.7	LDN	96.91	340	P	05	47.75	-0.1	GSC	108.32	7	ePKP	10	54.00	9.7X								
FRB	75.10	343	iPc	03	59.00	-0.5	CMS	97.44	124	iPc	05	48.90	-1.3	SBB	108.83	7	ePdiff	06	43.00	1.8								
BFS	75.36	220	iPc	04	00.00	-1.6	BUT	97.91	2	iPc	05	53.40	0.8	ALQ	108.98	358	iPdiff	06	43.20	1.2								
KNA	75.39	122	iPd	04	01.80	0.0	LRM	98.11	2	iPc	05	53.90	0.3		1.9s	263.00nm			7.1mb									
	0.5s	710.00nm			6.7mb		UTO	98.84	341	iPc	05	58.00	1.4		Z 18s	82.50um			7.3Msz									
JAY	75.49	104	iPc	04	02.00	-0.5	BFD	98.86	130	eP	05	55.00	-1.5				e	07	04.00										
SVW	75.75	21	ePc	04	03.90	0.6	RSSD	99.72	356	eP	05	59.30	-1.6	MWC	109.26	8	ePdiff	06	44.00	0.7								
SEK	76.09	218	iPc	04	06.40	0.7	HPI	100.19	3	ePdiff	06	04.20	1.3	MWC	109.26	8	ePKP	10	29.00	-17.2X								
VIR	76.28	219	eP	04	07.00	0.3	YOU	100.84	125	ePdiff	06	04.10	-1.5				e	10	55.00										
SWZ	76.35	221	iPc	04	08.00	0.9	TOO	100.95	129	ePdiff	06	05.00	-1.1				e	11	22.00										
NKI	77.10	32	ePd	04	08.70	-2.0	BDW	101.20	0	iPdiff	06	07.80	0.5	PAS	109.33	8	iPdiff	06	45.00	1.7								
PMR	77.13	18	iPc	04	10.50	-0.3		1.8s	480.00nm			6.7mb			1.2s	100.00nm												
MEK	77.17	137	iPc	04	11.10	-0.4	CAN	101.87	125	ePdiff	06	09.10	-1.1				e	11	10.00										
TOA	77.41	17	ePc	04	13.20	0.8				i	10	24.70					e	13	25.00										
BLF	77.46	219	iPc	04	13.00	-0.2	FHC	101.99	11	ePdiff	06	11.40	0.8				e	21	54.00										
WWW	78.45	103	ePc	04	20.50	1.7	BLA	102.04	337	iPdiff	06	11.10	0.2				eS	25	55.00										
SDN	78.68	27	P	04	18.30	-1.0		1.0s	80.00nm			6.3mb		PLM	110.25	7	ePdiff	06	45.00	-2.6X								
BAL	79.38	141	iPc	04	22.20	-1.2	WAM	102.30	126	ePdiff	06	12.10	0.1	PLM	110.25	7	ePKP	10	49.00	0.9								
KDC	79.43	22	iPc	04	23.70	0.4	WDC	102.43	10	ePdiff	06	12.20	-0.3				e	11	06.00										
MUN	80.23	142	iPc	04	27.00	-0.9				ePP	10	28.00					e	12	05.00										
MOM	80.49	100	iPc	04	30.50	0.9				ePKKP	22	18.00		GLA	110.72	5	ePdiff	06	51.00	1.5								
PCA	80.52	15	ePc	04	30.10	0.9				e	23	32.00					e	07	39.00										
GRM	80.70	216	iPc	04	28.50	-1.8	RIV	102.44	123	ePdiff	06	11.00	-1.7	GLA	110.72	5	ePKP	10	50.00	1.2								
Z	20s	25.50um			6.6Msz		MIN	102.79	10	ePdiff	06	14.30	0.0				e	11	28.00										
KLB	80.70	141	iPc	04	29.50	-0.9	MAW	103.85	183	ePdiff	06	19.00	0.9	BAR	110.93	7	ePdiff	06	46.00	-4.5X								
	0.8s	606.00nm			6.4mb			1.1s	136.00nm			6.7mb		FDF	111.84	309	ePdiff	06	56.00	1.1								
MDG	81.15	103	ePc	04	33.00	0.0				eS	10	34.00		SJG	112.20	315	ePdiff	06	58.00	1.6								
YKA	81.36	3	eP	04	34.60	1.3	FVM	103.97	345	ePdiff	06	20.00	0.6	Z	20s	9.93um			6.4Msz									
RSNT	81.37	3	eP	04	33.60	0.2		1.2s	131.00nm			6.7mb					iS	11	40.00										
WBN	81.46	131	iPc	04	34.50	0.1	Z	19s	44.40um			7.0Msz		JCT	112.89	351	ePdiff	07	00.00	0.8								
NWAO	81.51	142	iPc	04	33.70	-0.8	GLD	104.14	357	ePdiff	06	20.40	0.0		2.0s	147.00nm												
KLG	82.02	138	iPc	04	36.70	-0.5		1.9s	1010.00nm			7.4mb		Z	20s	99.30um			7.4Msz									
WRA	82.11	122	Pc	04	38.10	0.2	Z	21s	104.00um			7.3Msz		NDF	113.58	95	ePKP	10	54.00	-0.6								
	0.9s	285.00nm			6.0mb		GOL	104.19	357	ePdiff	06	21.60	0.9				eS	11	48.00										
SCH	82.11	337	ePc	04	37.50	0.0		2.1s	446.00nm			7.0mb		VUN	114.53	95	iPKPd	10	56.40	-0.1								
	1.2s	1930.00nm			6.7mb		EUR	104.24	5	iPdiff	06	22.20	1.3				eS	11	55.40										
WB2	82.12	122	iPc	04	38.40	0.4		0.3s	92.70nm			7.2mb		SVA	114.58	95	ePKP	10	55.00	-1.5								
			i	14	32.50		RSCP	105.06	340	e(Pdif	06	19.30	-5.1X	NVL	114.79	198	ePdiff	07	10.00	3.3X								
			eSKKS	34	11.20			0.6s	27.10nm			6.5mb					iPP	12	04.00										
STJ	82.34	325	eP	04	38.50	-0.2	MNA	105.09	7	ePdiff	06	26.00	1.4	DRV	115.34	156	iPKP	10	56.00	-0.5								
	1.8s	999.00nm			6.2mb		BKS	105.13	11	ePdiff	06	26.00	1.5	CRZ	118.06	114	PKP	11	02.80	0.1								
SUR	82.85	221	iPc	04	43.20	1.5		1.8s	320.00nm			7.1mb		ATB	118.17	288	iPdiff	07	30.50	7.5X								

GUV	118.30	306	iPKP	11	03.70	-0.1
CAR	118.66	311	iPdiff	07	26.00	0.7
CAR	118.66	311	iPKP	11	04.40	-0.2
MSZ	119.06	126	PKP	11	03.10	-1.2
			(pP)	11	54.10	
			PP	12	21.00	
			e	14	20.70	
TOV	120.95	313	iPKPd	11	09.00	0.1
	1.3s		500.00nm			
LGN	121.52	315	iPKP	11	12.00	2.2
KRP	121.63	116	PKP	11	08.00	-1.4
			pPcP	12	08.00	
			PP	12	33.00	
			SKKS	19	21.00	
TCW	122.01	120	PKP	11	08.20	-1.8
			epPcP	12	10.60	
BAO	122.14	274	iPKP	11	11.10	0.0
SDV	122.16	313	iPKPc	11	09.70	-1.6
	0.6s		44.40nm			
SNZO	122.35	120	iPKP	11	09.00	-1.6
	1.0s		680.00nm			
			e	11	59.00	
UAV	122.68	314	ePKP	11	04.20	-8.1X
	0.8s		34.10nm			
BMA	122.71	265	ePKP	11	12.10	0.1
			e	11	24.70	
			e	12	47.90	
			e	12	56.30	
LJX	123.21	346	ePKP	11	14.20	0.7
GNZ	123.71	116	iPKPd	11	13.10	-0.3
CRX	123.77	349	ePKP	11	15.30	0.8
VAO	125.12	266	ePKP	11	04.70	-12.0X
			i	11	17.00	
			i	11	24.40	
VHO	125.36	345	iPKP	11	19.00	1.5
SPA	126.21	180	ePKP	11	17.90	0.3
	1.9s		2050.00nm			
	Z 19s		56.00um		7.3Msz	
ACX	126.29	349	ePKPc	11	20.40	1.4
BOCO	127.61	313	ePKP	11	11.00	-11.2X
BOCO	127.61	313	iPKP	11	23.00	0.8
ITB	131.80	268	e(PKP)	11	29.40	0.1
ITB1	131.88	268	ePKP	11	27.40	-2.0
ITB7	131.93	267	e(PKP)	11	26.40	-3.2X
PSO	132.26	314	ePKP	11	12.00	-19.0X
RAR	133.72	85	PKP	11	34.00	1.0
			S	14	43.00	
ZOBO	138.44	288	iPKP	11	42.00	-0.8
LPA	138.68	256	ePKP+	11	25.00	-17.0X
	0.8s		716.00nm			
	Z 20s		25.50um		7.0Msz	
PMO	139.54	68	ePKP	11	37.00	-7.0X
	1.3s		915.00nm			
YJA	139.64	278	ePKPd	11	35.80	-8.9X
AFR	139.64	73	ePKP	11	36.00	-8.2X
	1.3s		1030.00nm			
TPT	139.74	68	ePKP	11	38.00	-6.4X
	1.3s		570.00nm			
PPT	139.82	73	ePKP	11	37.00	-7.5X
	1.3s		1030.00nm			
PAE	139.87	73	ePKP	11	38.00	-6.6X
	1.3s		570.00nm			
VAH	139.89	68	ePKP	11	39.00	-5.6X
	1.3s		570.00nm			
PPN	139.91	73	iPKP	11	37.30	-7.3X
	1.3s		570.00nm			
RUV	140.04	68	ePKP	11	40.00	-4.9X
	1.3s		570.00nm			
TVO	140.19	73	iPKP	11	38.60	-6.7X
	1.0s		1610.00nm			
SLA	140.87	275	ePKP	11	37.00	-9.5X
			PP	14	48.00	
			SS	26	52.00	
ARE	141.12	291	iPKPd	11	40.00	-7.3X
VBA	142.64	253	iPKPc	11	45.00	-4.0X
CYA	142.72	270	ePKPc	11	43.00	-6.4X
TBI	143.04	81	ePKP	11	47.50	-2.5
	1.2s		3330.00nm			
ANT	144.32	280	iPKP	11	49.50	-2.7X
VCA	144.78	271	iPKPc	11	52.00	-1.1
CEN	146.26	266	ePKP	11	56.00	0.6
MDZ	146.75	264	ePKP	11	56.90	0.8
RFA	146.96	261	ePKPc	11	57.00	0.6
			S	12	15.00	
FCH	148.03	264	iPKPc	11	59.00	0.5
BACH	148.20	264	iPKP	11	59.30	0.9
			i	13	02.80	
PCH	148.29	263	iPKPd	11	58.50	-0.1
PEL	148.30	264	iPKPc+	11	58 00	-0.6
CHCH	148.49	263	iPKP	11	59.00	0.2
TACH	148.64	264	iPKP	11	59.00	0.0
LNV	149.10	263	iPKPc	12	00.20	0.5
RKT	154.14	66	ePKP	12	08.40	1.1
	1.3s		1500.00nm			

S.D. = 1.1 on 536 of 580 obs.

JAN 01, 1984 09h 03m 37.48± 0.09s
33.697 N ± 1.6km 136.843 E ± 1.5km
DEPTH = 379.7 ± 0.8 km
5.3mb (15 obs.)
NEAR S. COAST OF SOUTHERN HONSHU(233)

Foreshock. This event was not included on the original IASPEI list, but is listed here as an aid to interpreting the main event which follows. The magnitude shown for this event may be high but the event can be seen clearly on stations in the United States as far away as 90 degrees.

TK01	0.63	84	P	04	25.60	0.3
OWA	0.65	305	iP	04	25.70	-0.1
TK02	0.80	72	P	04	26.50	0.6
SHJ	0.93	255	iP	04	26.20	-0.4
TSU	1.04	345	eP	04	27.00	0.1
TK03	1.04	63	eP	04	28.00	1.2
TK04	1.10	51	eP	04	28.00	1.0
WKYJ	1.16	297	iP	04	27.70	0.2
HMM	1.25	36	P	04	29.00	1.3
NAR	1.29	320	iP	04	28.50	0.6
OSK	1.34	313	iP	04	28.50	0.3
OMA	1.45	51	eP	04	30.00	1.3
NAG	1.47	4	eP	04	30.00	1.3
			eS	05	10.00	
OSA	1.47	312	iP	04	29.20	0.5
			S	05	08.60	
WKY	1.49	291	P	04	29.00	0.1
KYO	1.60	325	P	04	29.00	-0.4
HIK	1.65	343	P	04	30.20	0.5
KOB	1.70	306	eP	04	30.00	0.0
GIF	1.70	358	P	04	30.40	0.4
SUM	1.73	292	iP	04	30.20	0.0
SHZ	1.82	45	P	04	30.90	0.2
TKS	1.92	282	iP	04	31.90	0.6
TSRJ	1.97	339	iP	04	32.10	0.4
IID	1.99	24	P	04	33.50	1.7
IIDJ	1.99	26	iP	04	31.80	-0.1
HIM	2.11	303	eP	04	33.00	0.4
MZH	2.15	325	P	04	32.90	0.0
MIS	2.23	50	eP	04	34.00	0.6
KTJ	2.24	56	iP	04	33.20	-0.3
MRT	2.27	259	iP	04	33.80	0.1
AJI	2.30	54	P	04	33.50	-0.4
TKSJ	2.34	278	iP	04	34.60	0.3
OSH	2.35	62	P	04	35.10	0.8
TKM	2.39	286	eP	04	35.00	0.4
FUN	2.40	41	eP	04	35.00	0.2
FUK	2.41	348	eP	04	35.00	0.3
KOF	2.42	35	eP	04	33.00	-1.8
TKY	2.47	8	P	04	35.40	0.1
TYK	2.48	318	P	04	35.70	0.5
HJJ	2.53	103	P	04	35.30	-0.4
OKA	2.62	293	eP	04	36.50	0.2
			iS	05	27.60	
OYM	2.62	48	iPd	04	35.80	-0.7
KOC	2.76	268	iP	04	38.10	0.6
SRY	2.77	46	iPd	04	38.60	1.1
TOTJ	2.77	311	iP	04	37.50	0.0
TAT	2.81	62	P	04	36.90	-1.0
TOT	2.85	310	eP	04	38.00	-0.2
KAN	2.85	357	P	04	39.20	1.0
YOK	2.90	52	iP	04	39.70	1.1
MTMJ	2.99	15	iP	04	39.60	0.1
DDR	3.00	39	iPd	04	38.80	-0.8
MAT	3.05	21	iP	04	40.00	0.0
KYS	3.12	60	eP	04	37.10	-3.4X
TOK	3.12	50	P	04	40.00	-0.5
			S	05	29.40	
NGN	3.16	20	eP	04	41.50	0.6
YONJ	3.16	299	iP	04	41.20	0.3
KMG	3.22	40	P	04	40.60	-0.7
MAE	3.26	33	P	04	41.10	-0.6
ASZ	3.35	254	P	04	42.70	0.1
			iS	05	33.50	
MTY	3.39	274	eP	04	43.00	0.1
SHK	3.55	285	iPc	04	44.40	-0.1
MTS	3.57	300	iP	04	44.90	0.3
TKD	3.59	18	eP	04	45.00	0.3
UWA	3.61	264	iP	04	45.20	0.2
TSK	3.67	46	iPd	04	42.60	-3.0
WAJ	3.69	1	P	04	46.40	0.8
KAKJ	3.71	47	iP	04	43.50	-2.4
HIR	3.72	282	iP	04	45.90	-0.1
UTS	3.77	40	eP	04	46.00	-0.5
			S	05	41.00	
SAI	3.82	312	eP	04	47.00	0.1
CHO	3.87	57	P	04	47.60	0.2
			iS	05	43.80	
NIIJ	3.95	26	eP	04	47.00	-1.2
MIT	4.00	47	P	04	48.70	0.0
			iS	05	45.60	
HMD	4.12	288	P	04	50.10	0.2
OIT	4.39	265	P	04	53.50	0.9
SHR	4.39	38	iP	04	51.20	-1.5
AIK	4.46	14	P	04	52.90	-0.4
NOB	4.47	257	P	04	53.90	0.5
NII	4.57	22	P	04	55.30	0.8
SHNJ	4.79	277	P	04	57.00	0.3
MYZ	4.89	250	eP	05	00.00	2.2
			S	06	05.70	
ASJ	4.90	262	P	04	58.80	0.7
SHN	4.92	275	P	04	58.50	0.4
YAMJ	5.16	29	iP	04	59.50	-1.2
YAM	5.36	31	P	05	01.60	-1.3
KAGJ	5.62	245	P	05	06.60	0.9
SKH	5.74	25	P	05	06.90	-0.1
NGS	5.92	263	Pd	05	00.00	-9.0X
NGS	5.92	263	P	05	10.30	1.3
ISN	5.94	36	P	05	07.30	-1.9
HJH	6.24	25	P	05	11.80	-0.7
AKI	6.55	23	P	05	16.20	0.1
OFUJ	6.63	35	iP	05	15.00	-2.0
OFU	6.64	35	P	05	15.00	-2.1
MRK	6.92	29	P	05	18.50	-1.8
MIY	7.22	33	P	05	21.70	-2.1
AOMJ	7.41	21	P	05	25.80	-0.1
HAC	7.77	27	eP	05	28.00	-2.1
CBI	8.03	144	P	05	29.00	-4.2X
HAK	8.67	20	P	05	40.90	0.3
MRRJ	9.33	20	P	05	47.80	-0.5
SUT	9.46	15	P	05	50.00	0.1
URA	9.66	27	eP	05	53.00	0.8
SAP	9.99	19	eP	05	58.00	1.9
HOOJ	10.05	28	P	05	55.90	-0.9
VLA	10.18	339	iPd	05	58.50	0.2
OBI	10.48	27	P	06	03.00	1.0
RMJ	10.90	19	eP	06	08.00	1.1
ASA	10.94	22	P	06	08.10	0.6
KUS	11.00	30	P	06	06.90	-1.2
KUSJ	11.23	31	eP	06	10.00	-0.9
ASAJ	11.34	22	eP	06	11.00	-1.2
KMJ	11.37	232	iP	06	14.00	1.3
			iS	08	23.00	
NEM	11.80	33	eP	06	17.00	-0.6
ABJ	11.82	27	P	06	18.70	0.8
MDJ	12.26	335	iPc	06	23.50	0.4
			S	08	32.00	
			ScP	14	32.00	
			ScS	18	06.00	
WAK	12.28	16	P	06	24.70	1.4
SNY	13.26	312	Pd	06	34.70	0.4
			iS	08	58.00	
DL2	13.32	297	eP	06	33.60	-1.4
			S	08	55.00	
MYK	13.43	232	iP	06	37.20	1.0
			eS	08	59.00	
CN2	13.43	322	Pc	06	36.80	0.6
			ScP	14	33.20	
			ScS	18	08.50	
SSE	13.48	263	iPd-	06	36.00	-0.7
N	12s		47.40um			
E	12s		102.50um			
			sP	07	39.00	
			i	08	24.00	
			iS	09	05.00	
YSS	14.03	17	iPc	06	41.00	-1.6
	1.1s		410.00nm		5.8mb	
Z	17s		81.00um		6.5MszX	
N	18s		106.00um			

01d 09h

E 17s 59.00um
iS 09 07.00
KUR 14.31 33 eP 06 46.10 0.6
0.8s *******nm 7.3mb X
iS 09 25.00
ISI 14.48 233 iP 06 47.30 -0.2
iS 09 21.50
NJ2 15.21 269 Pc 06 53.70 -1.5
S 09 34.00
ScP 14 36.70
ScS 18 17.50
ANP 15.80 242 iP- 07 03.00 1.4
eS 09 48.00
UGL 15.86 13 iPc 07 03.10 1.1
TIA 16.36 284 Pd 07 05.70 -1.6
sP 08 35.00
S 09 57.00
ScP 14 38.80
ScS 18 19.30
BJI 17.69 297 Pc 07 19.50 -1.2
i 08 31.00
sP 08 59.00
eS 10 26.00
ScS 18 22.50
QZH 18.13 246 iPd 07 25.60 0.5
iS 10 20.00
WHN 19.30 267 Pd 07 37.00 0.3
TIY 20.21 288 P 07 43.80 -1.7
CVP 20.86 224 ePc 07 52.00 0.2
eS 08 59.00
HHC 21.30 297 eP 07 55.80 -0.3
GUMO 21.31 158 eP 07 58.00 1.8
GUA 21.37 158 eP 07 58.00 1.2
1.0s 320.00nm 5.7mb
eS 11 26.00
SZP 21.79 226 iPc 07 59.00 -1.7
BTO 22.41 296 P 08 07.00 0.4
S 11 46.00
BAG 22.60 224 iPd- 08 06.00 -2.6
iS 11 36.00
XAN 23.16 279 P 08 12.00 -1.5
S 11 51.00
GZH 23.17 249 Pc 08 12.50 -1.0
iS 11 56.00
MAN 23.73 221 eP 08 20.00 1.3
eS 12 11.00
TUP 23.92 335 iPd 08 19.00 -1.1
0.8s 1080.00nm 6.3mb X
eS 12 04.00
PGP 24.76 219 ePd 08 08.50 -19.5X
1.0s 1408.00nm
PET 24.81 32 eP 08 28.00 -0.2
1.0s 1200.00nm 6.2mb X
Z 16s 45.00um 6.1MszX
N 13s 41.00um
E 13s 28.00um
eS 12 28.00
CCP 26.11 210 iPd 08 41.00 0.7
eS 09 55.50
GYA 27.03 263 P 08 47.00 -1.6
S 12 56.00
LZH 27.10 284 iPd 08 44.00 -5.2X
7.0s *******nm 6.7mb X
N 12s 59.30um
E 12s 13.60um
pP 08 59.00 62kmX
iPcP 12 25.00
iS 12 54.00
isS 13 19.00
CGP 27.51 207 iPc 08 52.50 -0.2
MGD 27.96 15 iPc 08 56.00 -0.3
Z 15s 82.00um 6.4MszX
N 15s 100.00um
E 15s 60.00um
esP 10 50.00
iS 13 16.00
eScS 18 53.00
CD2 28.04 273 P 08 56.60 -0.7
PcP 11 58.50
iS 13 13.00
DAV 28.46 204 iPd- 09 01.00 -0.1
iS 13 21.00
YAK 28.70 353 iPd 09 02.00 -0.8
0.8s 2430.00nm 6.6mb X
iS 13 26.00
PPR 29.05 219 ePc 08 59.90 -6.3X
iS 09 40.70

ZAK 29.66 314 eP 09 12.70 1.5
1.8s 2710.00nm 6.3mb X
Z 14s 49.10um 6.3MszX
N 14s 24.70um
E 14s 53.70um
epP 10 24.00 387kmX
iS 13 45.70
esS 15 54.00
IRK 29.82 318 ePc 09 14.00 1.3
1.9s 1540.00nm 6.0mb X
Z 16s 62.80um 6.3MszX
N 16s 47.90um
E 16s 36.50um
epP 10 24.00 378kmX
ePcP 12 05.60
eS 13 46.00
esS 15 46.00
GTA 30.14 292 P 09 13.00 -2.7
PP 10 29.50
S 13 47.00
ScP 15 16.60
ScS 19 12.50
KMI 30.80 263 Pd 09 19.00 -2.7
SEY 30.83 14 eP 09 20.60 -0.7
1.1s 1150.00nm 6.1mb X
N 16s 87.00um
E 16s 61.00um
ipP 10 34.60 401kmX
iPcP 12 14.60
iS 14 02.60
isS 16 05.00
MOY 31.48 316 eP 09 27.30 0.3
1.5s 1420.00nm 6.1mb X
KKM 33.52 219 ePd 09 45.80 1.0
1.0s 268.70nm 5.5mb
e 09 57.90
e 10 09.80
MNI 34.00 202 ePd 09 49.50 0.8
eS 10 35.00
UER 35.56 313 ePd 10 02.00 0.5
1.5s 1070.00nm 6.0mb X
iS 15 19.00
CHG 36.85 256 iPd 10 12.00 -0.7
1.1s 31.65nm 4.6mb
eS 15 44.00
PCT 37.20 248 eP 10 14.30 -1.2
e 15 39.80
BDT 37.64 254 eP 10 18.40 -0.7
ADK 37.89 47 eP 10 19.00 -1.8
i 10 21.00
AAI 38.07 194 ePd 10 07.30 -15.3X
iS 11 21.20
TIK 38.24 356 eP 10 23.50 0.1
0.9s 1350.00nm 6.3mb X
Z 19s 4.00um 5.3MszX
N 18s 10.00um
E 18s 3.00um
epP 11 35.00 366kmX
ePP 12 06.00
ePcP 12 25.00
eS 15 52.00
esS 17 58.00
KVG 38.40 157 eP 10 26.00 0.7
WMQ 39.13 300 iPd 10 32.50 1.3
BKB 39.56 212 ePc 10 28.00 -6.9X
1.1s 6888.10nm 6.9mb X
NNT 39.76 247 eP 10 36.70 0.2
ELT 40.58 314 iPc 10 42.20 -0.6
iS 16 27.00
NVS 42.53 317 iPc 10 58.00 -0.5
1.2s 2760.00nm 6.4mb X
iS 16 54.00
ILT 42.58 23 iPc 10 57.00 -1.7
2.0s *******nm 7.0mb X
ipP 12 14.00 393kmX
iPcP 12 44.00
ePP 12 47.00
iS 16 55.00
eScS 20 18.00
SNG 42.62 240 iPc 11 01.00 1.3
0.9s 521.01nm 5.8mb
iS 16 56.80
NKI 42.77 46 eP 10 59.50 -1.0
PMG 43.97 165 eP 11 08.50 -1.8
SEM 44.10 310 eP 11 11.40 0.4
2.1s 5050.00nm 6.4mb X
ePcP 12 50.50

ePP 13 06.40
isP 13 08.20
iS 17 15.90
iScS 20 25.80
IPM 44.13 237 ePc 11 10.40 -1.3
e 11 14.00
i 11 36.10
e 11 47.90
i 12 23.10
PKI 44.31 276 eP 11 12.00 -1.4
KKN 44.33 277 eP 11 12.50 -0.9
KGM 44.45 232 ePc 11 15.00 0.9
0.7s 552.10nm 6.0mb X
e 14 53.00
DMN 44.54 277 eP 11 14.00 -1.1
NRI 44.68 338 iPc 11 15.30 0.0
5.0s *******nm 6.5mb X
Z 14s 46.00um 6.6MszX
N 18s 112.00um
E 18s 30.00um
ePP 13 14.00
iS 17 19.00
esS 19 34.00
eSS 20 52.00
KUPT 45.39 198 ePd 11 22.70 1.3
0.6s 703.40nm 6.1mb X
eS 17 22.70
MTN 46.60 188 eP 11 28.00 -2.8
PSI 46.94 237 iPc 11 32.30 -1.2
0.8s 290.10nm 5.6mb
TRT 47.15 214 iPc 11 35.20 0.1
0.5s 315.20nm 5.9mb X
e(S) 14 21.20
SDN 47.78 43 P 11 38.60 -0.9
SVO 47.88 149 eP 11 42.00 1.4
eS 18 12.00
VSG 47.93 149 eP 11 42.00 1.0
eS 18 10.00
HNR 48.19 149 eP 11 45.00 2.0
1.0s 480.00nm 5.7mb
eS 18 14.00
eLQ 20 22.00
PPI 48.22 233 eP 11 43.50 0.2
1.0s 599.40nm 5.8mb
eS 18 20.00
KNA 49.77 190 eP 11 53.00 -1.9
TTA 50.27 33 eP 11 57.70 -0.6
i 11 59.10
SVW 50.40 36 P 11 59.50 0.2
NDI 50.65 281 iPd 12 02.00 0.4
1.2s 1796.88nm 6.3mb X
Z 21s 34.95um 6.4Msz
N 21s 33.69um
E 21s 40.86um
iPP 13 12.00
iPPP 14 00.00
iPcS 18 37.00
iS 18 47.00
ANR 50.81 298 eP 12 03.50 0.9
1.3s 3000.00nm 6.5mb X
ePP 14 07.50
iS 18 54.20
iScS 21 14.20
BRW 50.93 22 eP 12 02.50 -0.5
i 12 04.40
IMA 51.44 29 P 12 05.30 -1.7
KDC 52.11 40 iPd 12 12.20 0.4
KHO 52.29 294 eP 12 12.60 -1.2
ePP 14 18.00
GAR 52.78 296 eP 12 16.30 -0.9
3.0s 5500.00nm 6.4mb X
ipP 13 34.00 375kmX
esP 14 17.30
iPP 14 19.00
eScS 21 30.00
TAS 52.91 299 ePc 12 18.30 0.3
2.0s 4800.00nm 6.5mb X
iPP 14 28.00
iS 19 20.00
iScS 21 28.00
WB2 53.39 183 iPd 12 19.00 -2.5
eS 19 21.30
WRA 53.39 183 Pc 12 19.70 -1.9
PMR 53.51 35 P 12 19.80 -2.2
1.0s *******nm 7.2mb X
KUL 53.52 295 iP 12 22.70 0.2
3.5s 8000.00nm 6.5mb X

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				iPP	14	28.50						ipP	14	59.00	389kmX				eSS	28	00.00		
				iS	19	28.90						iS	21	42.00		BFW	72.56	46	eP	14	27.50	1.8
				iScS	21	35.50						iScS	22	43.00		PNT	73.15	42	eP	14	28.00	-1.1
COL	53.89	31	eP	12	25.00	0.3		KEV	65.22	339	iP	13	40.20	-0.7		LON	73.25	45	ePc	14	31.30	1.6
			iS	19	39.00			Z	18s	25.80um			6.5Msz			SHW	73.29	45	eP	14	31.80	1.7
FBA	53.89	31	eP	12	24.30	-0.4					esP	15	04.00			MSL	73.57	303	ePd	14	31.00	-0.7
			i	12	25.30						ePP	15	48.00						e	15	59.50	
DSH	54.06	296	iPd	12	26.00	-0.4					eScS	21	56.00						e	23	31.50	
	5.0s	*******	nm			6.8mb X					eSSS	29	48.00			EDM	74.26	36	ePc	14	34.50	-0.8
Z	20s	33.00	um			6.4Msz					eP'P'	42	23.00			FHC	75.02	51	eP	14	41.90	2.1
			iS	19	36.00			STK	65.38	176	eP	13	40.00	-2.2		NEW	75.11	42	eP	14	40.20	0.0
ISQ	54.17	177	eP	12	25.00	-2.1		CMS	65.39	172	eP	13	42.00	-0.3					i	14	41.70	
CTA	54.23	169	iP	12	27.30	-0.3		KLG	65.76	195	eP	13	46.00	1.3		HFS	75.53	334	iP	14	41.00	-1.2
	1.0s	565.00	nm			5.9mb X		SOD	66.56	337	iP	13	48.10	-1.3			0.6s	654.00	nm			6.5mb X
			i	13	44.00			BAL	66.73	199	eP	13	52.00	1.2		PNO	75.65	45	eP	14	43.80	0.6
			iS	19	35.00			KLB	67.39	198	eP	13	54.00	-0.8		NB2	75.76	336	P	14	43.60	0.0
HYB	54.36	268	ePd	12	27.00	-1.8		KJF	67.85	333	iP	13	48.10	-9.2X			0.6s	320.50	nm			6.2mb X
	1.0s	970.00	nm			6.1mb X					iP'P'	42	05.70			WDC	76.07	50	iPc	14	46.80	1.2
			e	12	30.80			KJF	67.85	333	iP	13	56.00	-1.3					i	16	31.80	
			eS	19	36.00			Z	16s	25.80um			6.5MszX						i	17	42.70	
			eP'P'	42	20.00						iPcP	14	32.50						e	24	02.00	
TOA	54.86	34	P	12	31.80	0.0					ipP	15	22.40	393kmX		MIN	76.79	50	eP	14	50.20	0.4
SAM	55.06	298	ePc	12	32.00	-1.5					esP	16	12.00			GDH	77.07	4	iPd	14	52.00	1.5
	2.0s	2800.00	nm			6.3mb X					eS	22	28.00				1.0s	996.00	nm			6.5mb X
			iPP	14	40.60						eScS	23	08.00						iS	32	41.30	
			iS	19	48.00						iP'P'	42	12.00			SES	77.09	37	eP	14	50.00	-1.1
			iSSS	26	02.20			YOU	68.48	170	eP	14	00.70	-0.7		BKS	77.73	53	eP	14	55.10	0.4
KHE	55.16	349	iPc	12	33.00	-0.6					e	14	04.10				0.9s	1530.00	nm			6.8mb X
	1.3s	2000.00	nm			6.3mb X		YKA	68.54	28	eP	14	01.10	-0.4					iPcP	15	02.00	
			iPcP	13	38.00			IR7	68.57	299	eP	14	03.00	0.7					epP	16	30.00	425kmX
			iPP	14	40.00						e	42	12.00						epPcP	16	41.50	
			iPPP	16	02.00			YKC	68.60	28	eP	14	01.00	-0.9					i	17	11.00	
			iS	19	50.00				1.0s	1951.00	nm			6.8mb X					iPP	18	01.90	
			iScS	21	45.00			DAG	68.75	354	iPc	14	02.30	-0.3					e	18	17.00	
SVE	55.21	319	ePc	12	34.50	0.2			0.9s	605.04	nm			6.3mb X					e	19	03.00	
	2.0s	3060.00	nm			6.3mb X					i	22	39.00						ePPP	19	48.00	
Z	16s	59.50	um			6.8MszX		NWAO	68.79	198	eP	14	02.00	-1.3					eS	24	20.00	
N	16s	9.50	um					SUF	69.25	333	iP	14	04.50	-1.3					e	25	57.00	
E	16s	28.50	um					KRV	69.35	306	iP	14	06.00	-0.8					isS	26	57.00	
			ipP	13	55.00	386kmX					iS	22	44.00						esPS	27	46.00	
			ePP	14	40.00			CAN	69.59	169	eP	14	07.40	-0.8					eSS	29	42.00	
			iS	19	46.00						i	14	10.90						esSS	31	50.00	
			iScS	21	42.00						e	15	30.00						e	32	36.00	
			eSS	23	42.00						e	21	30.30						eSSSS	35	06.00	
ARU	56.40	319	eP	12	41.00	-1.5					eS	22	51.30						eP'P'	42	03.50	
	7.0s	7000.00	nm			6.2mb X		GRS	69.87	305	iPd	14	11.40	1.2		MHC	78.41	53	eP	14	59.80	1.2
Z	16s	42.50	um			6.6MszX			2.0s	*******	nm			7.3mb X		ARN	78.48	53	eP	14	59.00	0.2
N	20s	9.00	um								iPcP	14	29.80						e	15	00.30	
E	16s	41.00	um								ipP	15	38.00	392kmX		FFC	78.50	30	eP	14	57.00	-1.5
			epP	14	04.00	398kmX					iS	22	52.00			FCC	78.61	24	eP	14	58.00	-1.0
			iS	20	06.00			MTA	69.90	307	iPc	14	10.40	0.3		SAO	78.86	53	P	15	00.00	-0.8
			iScS	21	50.00			N	20s	23.00	um					JAS	78.87	52	iPc	15	02.00	1.1
			eSS	24	00.00			E	20s	48.00	um								i	16	43.60	
MBL	56.91	199	eP	12	48.00	1.6					ipP	15	37.40	394kmX					i	18	06.80	
ASPA	57.11	183	eP	12	45.00	-2.8					iS	22	51.40						e	24	32.00	
GBA	57.21	265	Pd	12	46.90	-1.8		SHI	69.90	293	eP	14	09.00	-1.5					e	42	01.50	
	0.9s	101.50	nm			5.3mb		PYA	69.95	310	eP	14	11.10	0.7		JECI	79.02	44	eP	15	02.00	0.2
POO	57.75	272	iPd	12	51.80	-0.7					ipP	15	36.00	382kmX		BMN	79.51	48	ePc	15	05.00	0.6
PCA	58.03	36	P	12	53.40	-0.5					iPP	16	54.00						i	15	06.60	
QUE	58.37	287	iP-	12	56.00	-0.7					ePPP	18	41.00			KRA	79.69	324	eP	15	04.80	-0.1
			eS	20	32.50						eS	22	45.00			PRI	79.73	53	eP	15	06.40	0.8
KOD	58.97	261	iPd	13	01.80	0.7					iSPP	23	38.00			HPI	80.05	44	eP	15	10.00	2.7
INK	59.04	26	eP	13	01.00	0.5		WAM	70.43	170	eP	14	12.60	-0.5		MNA	80.08	50	eP	15	07.20	-0.2
	0.7s	525.00	nm			6.1mb X					i	14	16.10						e	24	47.00	
NAU	59.51	203	iPd	13	02.40	-1.8					e	21	34.20			PHAM	80.08	54	eP	15	08.10	0.8
WBN	60.30	191	eP	13	08.00	-1.5		TAB	70.54	303	eP	14	16.00	1.8		JOS	80.41	323	e(P)	15	10.00	1.3
MBC	60.75	15	eP	13	10.50	-1.4					i	14	18.00				1.0s	10.00	nm			4.5mb
SIT	61.33	38	P	13	17.10	1.2		NUR	71.09	331	iP	14	16.00	-0.8		FRB	80.82	11	eP	15	10.00	-0.5
MHI	61.77	297	iPd	13	19.80	0.5			0.4s	992.70	nm			6.8mb X		EUR	80.85	48	iP	15	11.80	0.3
Z	21s	31.54	um			6.4Msz		Z	19s	24.10	um			6.5Msz		KSP	80.89	326	eP	15	10.70	-0.4
			eS	21	16.00						i	14	19.80				1.1s	1353.00	nm			6.6mb X
ASH	61.99	299	eP	13	22.00	1.5					ipP	15	43.00	392kmX					ic	15	14.80	
	2.5s	5500.00	nm			6.6mb X					esP	16	32.00						i	16	40.50	
			esP	15	23.00						ePP	17	00.00						iS	24	51.00	
			ePP	15	44.00						eS	23	00.00						e	41	47.00	
			iPPP	17	14.00						esS	25	28.00						e	44	38.00	
VAN	62.17	299	eP	13	22.00	0.3					eSS	27	48.00			TMI	80.97	44	eP	15	12.70	0.6
Z	18s	25.40	um			6.4Msz					eP'P'	42	04.00						e	15	14.50	
N	18s	16.60	um					PGC	71.33	44	eP	14	17.90	-0.5		CWC	81.28	52	eP	15	15.00	1.3
E	18s	28.80	um					KER	71.74	299	eP	14	19.00	-2.3		BCK	81.45	309	iP	15	16.00	1.6
			ipP	14	40.00	357kmX		GMW	72.27	44	e(P)	14	24.50	0.5		ISA	81.46	53	eP	15	15.00	0.5
			eS	21	20.00						i	14	26.00			BUD	81.84	323	e(P)	15	15.00	-1.1
MEK	62.44	198	iPc	13	21.10	-2.5		SOC	72.29	311	iPc	14	26.00	1.9		BRG	81.93	327	eP	15	16.40	-0.1
APA	64.21	335	ePc	13	34.50	0.0			6.0s	6000.00	nm			6.4mb X		CLC	81.96	52	eP	15	18.00	1.0
	1.0s	2130.00	nm			6.7mb X					ipP	15	50.00	375kmX		KDZ	82.15	315	iP	15	18.00	0.2
Z	20s	14.00	um			6.1Msz					iS	23	12.00			MOUT	82.31	45	eP	15	20.40	1.3
			iPcP	14	09.00						eScS	23	54.00			DUG	82.36	46	eP	15	19.30	0.2

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			i	15	21.10					i	17	24.50			OMA	1.49	52	iP	04	33.80	0.7
BSO	82.39	302	eP	15	21.00	1.8				i	19	35.00						eS	05	17.00	
PAS	82.54	54	iPd	15	22.00	2.0	ALO	89.59	47	eP	15	54.00	-0.3		KYO	1.59	327	iP	04	34.10	0.5
			epP	16	49.00	379kmX		1.0s	15.00nm				4.8mb					iS	05	14.60	
			esP	17	38.00		MSI	90.06	318	eP	15	58.00	1.9		HIK	1.65	344	P	04	34.60	0.6
			ePP	18	38.00		ACO	92.65	42	eP	16	09.50	1.4					S	05	17.20	
			epPP	20	10.00			1.8s	4099.80nm				7.1mb X		KOB	1.67	307	iP	04	34.50	0.4
			ePPP	20	38.00		ISSF	94.38	330	eP	16	14.40	-1.7					S	05	15.90	
			iS	25	08.00		RLO	95.29	40	ePc	16	21.50	1.3		SUM	1.70	293	iP	04	34.20	0.0
			ePS	26	24.00		WLO	95.56	43	ePc	16	22.80	1.3					(S)	05	16.00	
			epScS	26	59.00			1.2s	1511.50nm				7.0mb X		GIF	1.71	359	P	04	34.80	0.5
			esScS	27	44.00		EBR	95.64	328	eP	16	23.00	1.4					e	05	16.40	
			esSS	33	00.00					e	20	24.00			SHZ	1.86	46	P	04	35.50	0.3
			eSSS	34	25.00					e	22	30.00			TKS	1.88	282	iP	04	35.70	0.4
			e	41	39.00					e	26	22.00						S	05	17.80	
			e	43	30.00					e	28	32.00			NGT	1.93	61	eP	04	35.00	-0.7
			e	44	32.00		MNT	96.48	21	iP	16	26.50	1.1					iS	05	20.40	
MWC	82.58	54	eP	15	21.00	0.6		1.6s	580.00nm				6.5mb X		TSRJ	1.97	340	iP	04	36.40	0.5
BDW	82.65	43	eP	15	20.50	-0.2	BHO	96.71	41	eP	16	27.40	0.8		IID	2.02	25	eP	04	37.00	0.8
	0.8s	7.01nm				4.5mb				i	16	30.20						S	05	21.00	
EZN	82.69	313	eP	15	19.80	-0.8	ABA	97.69	324	eP	16	32.00	1.0		IIDJ	2.02	27	eP	04	37.00	0.7
GSC	82.78	52	eP	15	21.00	-0.3	AVE	105.37	330	iPKP	21	08.20	-8.8X		TSR	2.05	343	eP	04	39.00	2.6
VTS	82.79	317	eP	15	23.00	2.0	PRY	119.71	256	ePdiff	18	08.00	-1.2					(S)	05	19.00	
IZM	82.99	312	iPc	15	23.10	0.9				i	22	47.50			HIM	2.08	304	iP	04	36.70	0.1
MM8	83.13	316	iPc	15	24.00	1.2	BFS	120.25	256	iPKPc	21	45.70	0.0					S	05	20.00	
RVR	83.17	54	eP	15	24.00	0.9		0.5s	302.82nm						MZH	2.14	326	iP	04	37.10	0.1
BKU	83.19	48	eP	15	23.50	0.1	SWZ	121.55	257	e(PKP)	21	50.00	1.8					eS	05	22.00	
HOF	83.25	328	iPc	15	25.10	1.8	SPA	123.52	180	iPKPd	21	52.20	1.4		MRT	2.23	260	P	04	37.50	-0.1
			i	15	26.90			1.0s	399.50nm									S	05	22.30	
			eS	25	14.00			Z 18s	12.37um				6.6Msz		MIS	2.27	50	iP	04	37.60	-0.3
KHC	83.34	326	P	15	23.50	-0.2	UPA	125.27	46	ePKPc	21	52.00	-3.5X					S	05	22.60	
	1.0s	642.00nm				6.3mb X		0.8s	179.10nm						KTJ	2.28	56	eP	04	37.00	-1.0
	Z 12s	9.80um				6.4MszX		Z 20s	7.45um				6.4Msz		TKSJ	2.30	278	P	04	38.60	0.4
	N 12s	6.60um								i	22	41.00			AJI	2.34	54	P	04	38.60	0.2
	E 14s	9.20um								i	23	52.00						eS	05	23.00	
			i	15	27.50					i	24	31.00			TKM	2.36	286	iP	04	38.70	0.2
			ipP	16	57.50	413kmX	SDV	130.25	37	ePKP	21	55.10	-10.2X					eS	05	25.00	
			e	18	50.50		CAR	130.57	31	ePKP	21	56.20	-9.6X		OSH	2.40	63	iP	04	38.30	-0.6
			S	25	15.00		TRN	132.61	25	ePKP	22	00.20	-9.3X		FUK	2.41	349	iP	04	39.50	0.6
			sS	27	49.00		PSO	132.71	50	ePKP	21	59.00	-11.3X					S	05	26.00	
			e	30	57.00		NVL	132.81	202	ePKP	21	58.00	-10.2X		FUN	2.43	41	eP	04	39.00	-0.2
PLM	83.89	54	eP	15	26.00	-1.0				iPP	24	46.00						S	05	26.10	
GRF	84.00	328	iPc	15	29.00	2.0				eSP	34	15.00			KOF	2.46	36	eP	04	39.00	-0.3
			ic	15	31.00		GUV	134.59	28	ePKP	22	00.80	-12.5X					S	05	23.70	
			e	15	33.40		PCH	157.25	97	ePKPc	22	51.00	1.5		TYK	2.46	319	iP	04	39.70	0.4
			e	15	40.00					i	23	29.50						(S)	05	25.10	
			epP	17	01.60	405kmX	FCH	157.39	97	iPKPc	22	52.00	2.0X		TKY	2.49	9	P	04	40.10	0.5
			eSKS	25	24.00					i	23	30.00			HJJ	2.57	102	P	04	39.20	-1.0
BAR	84.42	54	eP	15	31.00	1.6	BAO	161.49	15	e(PKP)	22	48.00	-6.5X					eS	05	26.00	
MMU	84.52	47	iP	15	12.10	-18.1X		S.D. = 1.2		on 346 of 367 obs.					KOC	2.72	268	iP	04	42.00	0.7
RSON	84.76	29	eP	15	29.40	-1.3												iS	05	29.70	
	0.6s	8.35nm				4.7mb		JAN 01, 1984 09h 03m 41.35± 0.07s							MTM	2.73	20	eP	04	43.00	1.5
			e	15	31.40			33.681 N ± 1.3km 136.793 E ± 1.1km										eS	05	30.00	
OHR	85.12	317	iP	15	31.00	-1.8		DEPTH = 383.3 ± 0.6 km							TOTJ	2.75	311	iP	04	41.60	0.1
			i	15	36.10			6.6mb (77 obs.)							TOT	2.83	311	iP	04	42.00	-0.2
			eS	25	18.60			NEAR S. COAST OF SOUTHERN HONSHU(233)										iS	05	30.10	
RMU	85.43	48	eP	15	38.10	3.6X		Felt (IV JMA) at Tateyama,							TAT	2.86	62	iP	04	41.10	-1.3
ATH	85.44	313	iPc	15	36.00	1.7		Yokohama, Tokyo, Utsunomiyo and										S	05	30.30	
			iS	25	24.00			Onohama; (III JMA) on Oshimo and							KAN	2.86	358	P	04	43.60	1.2
GLA	85.44	53	eP	15	35.00	0.5		at Chichibu, Kumagaya, Choshi,										eS	05	30.00	
TRI	85.69	324	iPc	15	37.30	1.9		Mito, Shirokawa, Chiba, Kokioka,							YOK	2.94	53	eP	04	43.00	-0.1
			ipP	17	04.00	375kmX		Nikko, Fukushima and Sakata.										iS	05	32.40	
			iPP	18	59.40			Felt from Hokkaido to							CHJ	2.98	39	eP	04	44.00	0.6
			ipPP	20	20.00			northeastern Kyushu and on the										eS	05	32.00	
			iS	25	24.00			Bonin Islands.							CHJJ	2.98	37	eP	04	43.00	-0.4
			iSP	26	20.00										MTMJ	3.01	16	iP	04	44.00	0.1
			isS	28	02.00		OWA	0.63	308	iP	04	29.60	-0.4		TOY	3.04	6	eP	04	44.00	0.1
			iSS	31	08.00					S	05	07.30						eS	05	35.00	
			iSSS	34	58.00		TK01	0.67	83	eP	04	30.00	0.3		MAT	3.08	22	P	04	44.00	-0.4
CTI	86.47	325	iPc	15	41.20	1.9	TK02	0.84	71	P	04	30.70	0.4					S	05	33.00	
			ipP	17	10.00	384kmX	SHJ	0.89	255	P	04	30.00	-0.7		YONJ	3.14	300	iP	04	45.20	0.4
GOL	87.05	43	iP	15	44.50	2.1				S	05	08.50			TOK	3.16	50	iP	04	44.80	-0.2
	0.8s	4.46nm				4.4mb	TSU	1.04	347	iP	04	31.50	0.3					S	05	35.00	
GLD	87.10	43	iP	15	45.00	2.5				eS	05	11.00			NGN	3.19	21	iP	04	45.30	0.0
	1.2s	84.85nm				5.5mb	TK03	1.09	63	P	04	32.10	0.9					eS	05	38.00	
POI	88.35	322	iPc	15	50.00	1.9	WKYJ	1.13	299	P	04	31.80	0.1		KMG	3.25	40	P	04	45.40	-0.4
			e	17	21.00		TK04	1.14	52	P	04	32.40	0.9					eS	05	36.00	
			e	19	26.00		NAR	1.28	322	eP	04	33.00	0.9		MAE	3.29	34	P	04	46.30	0.1
LHC	88.47	29	eP	15	48.50	-0.1	HMM	1.28	37	eP	04	33.00	0.9					S	05	36.60	
	1.2s	3531.00nm				7.1mb X				eS	05	11.00			ASZ	3.31	254	iP	04	46.20	-0.1
ORO	88.49	327	eP	15	50.50	1.6	OSK	1.32	315	iP	04	32.50	0.1					eS	05	39.00	
			i	17	20.80		OSA	1.45	314	iP	04	33.20	0.3		MTY	3.35	274	iP	04	46.60	-0.1
RMP	89.03	322	iPc	15	52.00	0.7				S	05	14.00						iS	05	38.20	
			iPP	19	01.00		WKY	1.46	292	iP	04	33.00	0.1		MTS	3.54	301	iP	04	49.00	0.5
			iS	25	52.00					iS	05	14.50						i	04	52.40	
			iPS	26	40.00		NAG	1.49	6	iP	04	34.00	0.9					iS	05	42.40	
RDP	89.06	322	iPc	15	53.50	1.9				eS	05	15.00			UWA	3.57	264	iP	04	48.90	0.2

01d 09h

TKD	3.62	19	P	04	49.50	0.4	HOOJ	10.08	29	P	06	00.80	-0.3				eS	18	14.00				
			S	05	43.00		NGO	10.40	230	iP	06	04.50	-0.4	KSH	48.38	295	iPd	11	50.00	2.0		
HIR	3.68	282	iP	04	49.80	0.1				iS	08	03.50					pP	13	06.00	375	kmX		
			S	05	44.80		OBI	10.51	27	P	06	06.90	0.7				sP	13	51.00				
WAJ	3.70	1	iP	04	50.70	0.8				S	08	02.00					iS	18	23.00				
			eS	05	45.00		NAH	10.85	229	iP	06	09.50	-0.7	FRU	48.68	300	ePc	11	49.80	-0.4		
KAKJ	3.75	47	eP	04	49.00	-1.4				iS	08	10.30			1.6s	1700.00	nm			6.1	mb		
SAI	3.80	313	iP	04	51.40	0.6	RMJ	10.92	19	P	06	11.20	0.1		Z 14s	37.90	um			6.5	MszX		
			S	05	47.20					S	08	06.00			E 16s	47.00	um						
UTS	3.81	41	iP	04	49.50	-1.5	ASA	10.97	22	P	06	11.90	0.2				iPcP	13	12.00				
CHO	3.91	57	eP	04	51.00	-0.9				S	08	08.20					iPP	13	51.00				
NIIJ	3.98	26	eP	04	52.00	-0.6	KUS	11.03	30	iP	06	11.90	-0.5				iS	18	18.00				
MIT	4.04	47	eP	04	52.00	-1.2				S	08	08.00					isS	20	30.00				
HMD	4.09	289	iP	04	54.00	0.3	KUSJ	11.26	31	P	06	14.90	-0.2				iScS	21	00.00				
			iS	05	51.20		ASAJ	11.37	22	iP	06	16.50	0.1	TTA	50.30	33	iP	12	02.60	0.4		
OIT	4.34	266	P	04	57.30	1.1	NEM	11.83	33	iP	06	21.60	-0.3	BRW	50.96	22	iP	12	07.50	0.7		
NOB	4.42	257	P	04	57.20	0.2				iS	08	25.70		KDC	52.15	40	iP	12	16.00	0.3		
			iS	05	56.00		ABJ	11.85	27	iP	06	23.20	1.1	FBA	53.93	31	iPc	12	28.50	0.0		
SHR	4.43	38	eP	04	56.00	-1.1				eS	08	25.00		OPA	58.12	84	eP	12	58.90	0.5		
			eS	05	53.00		WAK	12.31	16	P	06	28.30	0.9	HON	58.29	84	eP	12	59.90	0.3		
AIK	4.49	15	P	04	56.90	-0.8	OKH	20.34	11	iPd	07	49.00	-1.2	PVC	59.32	145	iPc	13	05.00	-1.5		
			iS	05	55.80			3.0s	*******	nm		7.7	mb X				iS	20	51.00				
NII	4.60	23	eP	04	59.00	0.2		Z 11s	44.10	um		6.1	MszX	SIT	61.37	38	iPc	13	20.90	1.2		
			S	06	00.40			E 11s	139.00	um				NOU	62.44	149	iPc	13	26.50	-0.6		
ONA	4.68	45	eP	04	58.00	-1.7				iS	11	14.00					iS	21	26.20				
			iS	05	56.70		SKR	22.09	34	eP	08	05.00	-1.9	KAT	62.99	301	iPc	13	31.00	0.4		
SHNJ	4.75	277	P	05	00.90	0.5		1.3s	*******	nm		7.5	mb		6.0s	*******	nm			6.7	mb X		
ASJ	4.86	262	P	05	02.80	1.1		Z 14s	120.00	um		6.5	MszX				epP	14	55.00	389	kmX		
			S	06	09.00			N 16s	81.80	um							eS	21	32.00				
SHN	4.88	275	P	05	02.40	0.7		E 14s	129.00	um				KBS	63.30	350	iP+	13	33.20	1.1		
FKS	5.05	35	iP	05	02.50	-1.0				iS	11	43.60		NDF	64.18	136	iPc	13	38.00	-0.4		
			S	06	05.00		HKC	22.91	246	iP	08	13.50	-1.3				pP	15	05.00	403	kmX		
KUM	5.17	262	eP	05	05.00	0.2				iS	11	56.00		SVA	65.05	136	ePc	13	44.00	0.1		
			S	06	13.80		MCO	23.49	247	iP	08	19.00	-1.0				eS	22	01.00				
YAMJ	5.20	29	eP	05	05.00	-0.1	QCP	23.71	221	eP	08	36.50	14.3X	MAK	67.54	307	iPc	13	57.80	-1.4		
FKK	5.35	271	P	05	06.80	0.0	BOD	28.59	335	iPc	09	04.90	-0.6		7.0s	6500.00	nm			6.5	mb X		
			S	06	14.10			0.9s	1060.00	nm		6.2	mb				ipP	15	20.00	371	kmX		
YAM	5.40	31	eP	05	07.00	-0.3	KMI	30.76	263	iP-	09	24.00	-1.0				iS	22	19.00				
			eS	06	12.00			E 14s	76.80	um				MOS	67.66	323	iPc	13	59.00	-0.8		
SAG	5.44	267	eP	05	08.00	0.3				pP	10	08.00	216kmX		2.0s	5900.00	nm			7.0	mb		
			S	06	21.00					sP	10	44.00			Z 19s	58.90	um			6.8	Msz		
KAGJ	5.58	245	P	05	08.80	-0.5				PcP	13	13.00			N 15s	35.70	um						
SEN	5.65	35	iP	05	08.90	-1.2				S	13	53.00			E 15s	39.90	um						
			iS	06	16.50					sS	15	24.00					ePcP	14	21.00				
KAG	5.67	250	P	05	10.10	-0.1				ScP	15	34.00					ipP	15	22.00	376	kmX		
			iS	06	23.40					PcS	16	07.00					iPP	16	36.00				
TAJ	5.72	241	iP	05	10.90	0.1				ScS	19	20.00					iPPP	18	19.00				
			iS	06	24.70		SMY	32.70	43	ePd	09	42.30	1.3				iS	22	24.00				
SKH	5.77	26	P	05	11.40	0.1	JAY	36.19	173	ePc	10	09.60	-1.1				esPP	23	08.00				
NGS	5.88	263	P	05	13.10	0.5		1.3s	1332.80	nm		6.1	mb				eSSS	29	58.00				
ISN	5.98	36	eP	05	12.00	-1.6	MOM	36.91	162	ePd	10	15.50	-1.2	TEH	67.96	299	eP	14	01.00	-1.1		
			iS	06	20.90		NST	37.58	251	iPd	10	20.80	-1.4	PHC	68.12	43	ePc	14	02.00	-0.6		
IZU	6.25	277	iP	05	18.00	1.3	ADK	37.93	47	iPc	10	24.70	0.0		1.3s	3250.00	nm			6.9	mb		
			eS	06	34.00		LSA	38.80	277	iPd	10	33.20	0.5	MUN	68.13	199	iPd	14	01.70	-1.1		
HJH	6.27	25	eP	05	16.00	-0.9				pP	11	45.20	368kmX	OBN	68.44	323	iPc	14	03.50	-1.0		
AKI	6.58	23	iP	05	20.30	-0.1	KHT	39.30	251	eP	10	36.90	0.6		1.7s	4100.00	nm			6.9	mb		
			S	06	38.10		BKB	39.53	212	ePd	10	38.90	0.7		Z 18s	49.00	um			6.8	Msz		
OFUJ	6.67	35	eP	05	20.00	-1.4		1.1s	5550	60nm		6.8	mb		N 18s	31.00	um						
			(S)	06	37.70		MDG	39.64	166	ePc	10	39.50	0.4		E 16s	45.00	um						
OFU	6.68	35	iP	05	20.00	-1.5	RAB	40.38	156	iPc+	10	43.80	-1.3				ipP	15	26.00	372	kmX		
			iS	06	34.70		LAT	41.26	165	ePd	10	51.00	-1.3				iS	22	34.00				
FKJ	6.74	264	P	05	22.70	0.4	MKS	42.02	206	iPd	10	57.20	-1.2	RIV	68.50	167	iPc	14	04.50	-0.5		
			S	06	44.00		NKI	42.82	46	iPd	11	03.50	-0.9	GRO	68.54	308	iPc	14	05.00	-0.4		
MRK	6.96	29	P	05	23.50	-1.2	LMG	43.71	164	eP	11	10.50	-1.4		Z 20s	53.00	um			6.8	Msz		
			S	06	42.30		KLM	44.72	235	eP	11	18.90	-1.0		N 16s	31.00	um						
MIY	7.26	33	P	05	26.20	-1.9		0.8s	175.20	nm		5.4	mb X		E 16s	6.70	um						
			iS	06	46.80		KUPN	44.84	164	eP	11	19.30	-1.4				ipP	15	30.00	385	kmX		
AOMJ	7.44	22	P	05	30.00	-0.2	PRZ	46.00	299	iPc	11	31.00	1.2				iPP	16	42.00				
AOM	7.80	23	iP	05	34.20	-0.2		5.0s	*******	nm		6.6	mb X				iS	22	35.00				
			S	07	01.80			Z 16s	47.00	um		6.5	MszX	PUL	69.12	329	iPc	14	08.00	-0.6		
HAC	7.81	28	iP	05	33.00	-1.4		N 16s	33.00	um					3.0s	5600.00	nm			6.7	mb		
			iS	06	58.00			E 16s	37.00	um					Z 14s	19.00	um			6.5	MszX		
CBI	8.05	143	P	05	33.00	-4.3X				epP	12	45.00	368kmX		N 14s	18.00	um						
NZJ	8.19	232	iP	05	37.90	-1.0				iS	17	46.00			E 14s	26.00	um						
			iS	07	13.60					eScS	20	42.00					ePcP	14	32.00				
HAK	8.70	20	P	05	44.60	-0.3				eSS	21	10.00					ipP	15	30.00	368	kmX		
			S	07	18.50		TSI	46.58	238	ePd	11	33.90	-0.4				iS	22	41.00				
MVI	9.19	213	P	05	49.50	-1.2		0.8s	1001.50	nm		6.2	mb				eSP	23	11.00				
MRRJ	9.36	20	P	05	51.90	-0.7	TLG	46.61	300	iP	11	34.40	0.0				iSPP	23	24.00				
SUT	9.49	16	P	05	53.80	-0.3				ipP	12	50.00	376kmX				eScS	23	28.00				
			iS	07	40.00					iS	17	49.00					iSS	27	19.00				
URA	9.69	27	eP	05	57.00	0.5	AAA	46.93	300	iP	11	38.50	1.7	RKG	69.91	197	eP	14	15.00	1.4		
			S	07	40.40					iPcP	12	56.00		BFD	70.70	175	iPc	14	16.80	-1.4		
SAP	10.02	19	eP	06	00.00	-0.3				iS	17	58.00		BKR	70.71	308	iPd	14	19.60	0.9		
			e	06	21.00		8SI	47.59	243	ePd	11	41.50	-0.6		Z 18s	40.40	um			6.7	Msz		
			eS	07	49.00			1.0s	1053.70	nm		6.1	mb				ipP	15	39.00	353	kmX		
			eScS	18	03.00		NRN	47.94	298	iPd	11	44.50	-0.5				iPPP	18	50.00				

01d 09h

				iS	23 04.00	
ERE		70.78	306	iPc	14 20.40	1.4
				ipP	15 46.00	385kmX
				iS	23 05.00	
LEN		70.94	307	iPc	14 20.00	-0.1
		1.6s	1500.00nm			6.4mb
	N	18s	32.20um			
	E	18s	22.40um			
				iS	23 05.00	
TOO		71.35	173	iPc	14 21.50	-0.6
GMW		72.31	44	eP	14 28.60	0.9
BFW		72.60	45	iPd	14 30.30	0.8
JMI		72.82	349	eP	14 30.40	0.2
NUE		73.01	128	P	14 33.20	1.2
				S	16 12.00	
ANN		73.12	313	iPc	14 31.50	-0.9
		1.8s	4600.00nm			6.8mb
	N	21s	43.40um			
	E	17s	21.00um			
				ipP	16 00.00	397kmX
				ePP	17 23.00	
				ePPP	19 13.00	
				iS	23 25.50	
LON		73.29	45	iPd	14 33.80	0.3
SHW		73.33	45	iP	14 35.80	2.0
BHD		74.21	300	ePd	14 38.50	-0.3
				e	16 06.00	
				i	23 39.00	
				e	25 17.50	
UPP		74.25	333	iPc	14 37.50	-1.0
		1.6s	7900.00nm			7.1mb
				i	16 02.40	
				iS	23 37.00	
				i	26 05.00	
SIM		75.01	314	iPc	14 43.00	-0.1
	Z	20s	14.00um			6.3Msz
	N	20s	22.00um			
	E	20s	19.00um			
NEW		75.15	42	iPc	14 44.10	0.2
				e	16 12.00	
CRZ		75.66	150	P	14 47.30	0.6
				e	16 21.00	
				PP	17 33.00	
				S	23 58.00	
PNO		75.69	45	iP	14 48.00	1.1
KIS		76.88	318	eP	14 53.00	-0.4
		2.0s	1800.00nm			6.5mb
	Z	16s	15.00um			6.4MszX
	N	16s	10.80um			
	E	16s	34.70um			
				ipP	16 18.00	375kmX
				iPPP	19 45.00	
				iS	24 04.00	
KONO		77.32	336	iP	14 55.30	-0.3
IAS		77.50	319	eP	14 57.00	0.2
LVV		77.79	322	iPc	14 58.50	0.2
	Z	17s	56.70um			7.0MszX
	N	18s	74.50um			
	E	18s	43.20um			
				ipP	16 25.00	382kmX
				iS	24 19.00	
				eSS	29 25.00	
CLI		78.04	318	iPc	15 01.00	1.2
PPE		78.05	318	iPd	15 02.00	2.2
BER		78.18	338	iP+	15 04.00	3.8X
CFR		78.36	317	iPc	15 00.00	-1.4
ARN		78.52	53	iP	15 03.60	1.0
KDE		78.68	312	eP	15 02.00	-1.3
VRI		78.76	318	iPd	15 03.00	-0.6
TLB		78.78	316	iPc	15 04.00	0.3
AKU		79.06	350	iPc	15 06.10	1.3
		1.6s	3400.00nm			6.9mb
				i	16 38.40	
JECI		79.06	44	iPc	15 06.50	0.9
CVO		79.09	318	iPc	15 05.00	-0.4
COP		79.14	332	iPd	15 06.10	0.7
				i	16 32.00	
				iS	24 32.00	
PSN		79.23	316	iPc	15 07.00	0.9
ISR		79.30	317	iPc	15 07.00	0.4
UZH		79.41	322	iPc	15 06.00	-1.0
	Z	16s	53.00um			7.0MszX
				iS	24 33.00	
MLR		79.42	318	iPc	15 07.00	-0.3
KRA		79.68	324	iPc	15 08.30	0.0
		0.8s	969.00nm			6.6mb
	Z	18s	38.40um			6.8Msz
	N	17s	44.80um			
	E	17s	34.60um			
				i	15 09.80	
				i	15 10.30	
				i	15 15.80	
				i	16 42.10	
				iS	24 38.00	
MUD		79.83	333	iPd	15 09.80	0.8
		1.0s	192.00nm			5.8mb
MDB		79.88	319	iPd	15 09.00	-0.5
CEI		79.94	321	eP	15 13.00	3.3X
GPA		79.95	312	iPc	15 09.00	-1.0
HRT		80.03	313	iP	15 09.70	-0.7
CMP		80.06	318	ePc	15 15.00	4.5X
BUC1		80.07	317	iPc	15 10.50	0.0
HPI		80.08	44	iP	15 13.00	2.0
				e	17 42.00	
SPC		80.09	323	eP	15 11.00	0.2
				i(PP)	16 39.60	
				i(PP)	18 22.10	
				e(S)	24 45.50	
PHAM		80.12	54	iP	15 12.40	1.4
CGN		80.20	317	iPc	15 12.00	0.9
ISK		80.26	313	eP	15 11.20	-0.3
COZ		80.42	319	iPc	15 13.50	1.0
DMK		80.60	314	iPd	15 13.30	0.0
ALT		80.79	311	iP	15 14.90	0.4
DEV		80.85	320	iPd	15 16.00	1.5
JMB		80.90	315	iPd	15 15.00	0.1
TMI		81.01	44	iP	15 17.30	1.5
MGI		81.03	303	eP	15 17.00	1.2
PSZ		81.10	323	eP	15 16.00	0.1
SYP		81.15	54	eP	15 15.00	-1.5
BRN		81.15	329	ePc	15 24.00	8.1X
				epP	16 42.00	336kmX
				eS	24 50.00	
PVL		81.30	317	iPc	15 18.00	1.1
DST		81.39	312	iPc	15 17.10	-0.5
RAR		81.41	122	P	15 21.00	3.3X
				S	25 00.00	
EDC		81.42	313	iP	15 17.10	-0.5
GNZ		81.50	149	Pc	15 16.70	-1.1
				(pP)	16 51.90	421kmX
				PP	18 36.00	
				S	24 56.00	
JER		81.58	302	ePd	15 20.00	1.3
DIM		81.74	315	eP	15 20.00	0.8
HAM		81.76	331	iPd	15 19.40	0.4
BRG		81.92	327	iPc+	15 20.00	0.0
		1.8s	2300.00nm			6.6mb
				ipP	16 50.00	395kmX
				iS	25 02.00	
				esS	27 30.00	
				ePKKP	33 37.00	
				eP'P'	41 52.00	
SRO		81.97	323	iPc	15 21.00	0.8
				e	16 47.00	
				iS	25 05.00	
				e	27 36.20	
				e	30 27.80	
CLL		82.03	328	iPc	15 20.10	-0.4
		1.7s	2100.00nm			6.6mb
				ipP	16 51.20	400kmX
				iS	25 01.00	
				PKKP	33 46.00	
				P'P'	41 48.00	
TCW		82.13	152	P	15 20.10	-0.9
				(sP)	16 51.00	
				S	25 02.50	
PLD		82.22	316	iPc	15 22.00	0.3
PRU		82.28	327	iPc	15 22.20	0.4
		1.5s	2165.20nm			6.7mb
	Z	16s	21.50um			6.6MszX
	N	15s	20.50um			
	E	17s	9.50um			
				ipP	16 48.00	374kmX
				e	18 36.00	
				iS	25 04.00	
				sS	27 32.00	
				i	30 40.00	
ELL		82.28	309	iPc	15 21.00	-1.3
ZST		82.31	324	iPc	15 23.20	1.2
				e	16 50.90	
				e	16 57.00	
MOUT		82.35	45	iP	15 23 60	0.8
WEL		82.38	152	iP	15 21.20	-1.1
				sP	16 51.00	
				i	16 58.00	
				PP	18 45.60	
				PPP	20 21.60	
				iSS	25 02.00	
				ScS	25 22.00	
				PS	26 26.00	
				PS	27 06.00	
				SP	27 33.00	
DUG		82.40	46	iPc	15 23.50	0.7
VKA		82.64	325	iPc	15 24.20	0.5
		1.7s	2829.00nm			6.8mb
				i	15 26.50	
				epP	16 49.80	372kmX
				isP	17 30.30	
				iPP	18 40.50	
				ipPP	19 54.30	
				iS	25 09.00	
BDW		82.68	43	iP	15 22.30	-2.0
		1.0s	194.00nm			5.8mb
				e	16 41.00	
MSZ		82.96	158	Pc	15 24.90	-0.2
				i	15 42.80	
				(PP)	16 52.70	
				i	17 02.10	
				eS	25 09.00	
YER		83.09	310	iP	15 25.00	-1.3
MOX		83.12	328	iPc	15 26.00	0.0
		1.8s	2500.00nm			6.7mb
	Z	14s	23.70um			6.7MszX
	N	19s	20.00um			
	E	20s	29.00um			
				ipP	16 54.00	384kmX
				i	17 03.00	
				i	17 08.00	
				iPP	18 45.00	
				iS	25 14.00	
				isS	27 44.00	
				iSS	30 40.00	
				ePKKP	33 45.00	
				eSSS	34 00.00	
				iSSSS	37 10.00	
WIT		83.54	332	iPc	15 29.00	0.9
		1.7s	9688.00nm			7.3mb
				e	15 35.00	
				e	16 00.50	
				epP	17 02.00	408kmX
				iPP	18 48.10	
WET		83.64	327	iPc	15 28.90	0.2
				iS	25 19.00	
KMR		83.83	325	iP+	15 30.20	0.5
				ipP	16 56.00	372kmX
				e	19 54.00	
VAY		83.95	316	iP	15 29.80	-0.6
GRFO		83.99	328	P	15 31.00	0.6
				e	16 58.00	
WTS		84.11	332	iPc	15 30.80	-0.1
		1.9s	3300.00nm			6.8mb
				i	15 36.50	
				epP	17 04.50	410kmX
				iPP	18 53.00	
SKO		84.17	317	iPc	15 32.00	0.5
				i	16 59.00	
				iS	25 19.00	
ZAG		84.50	323	iPc	15 33.30	0.3
				eS	25 19.10	
BHG		84.66	326	iPc	15 34.00	0.2
DBN		84.67	332	iP+	15 34.00	0.3
	Z	20s	22.00um			6.5Msz
				ipP	17 00.00	372kmX
				iS	25 29.00	
				isS	28 03.00	
				iSS	31 18.00	
				iSSS	34 46.00	
BNS		84.76	331	iPc	15 34.00	-0.2
				eS	26 29.00	
RSON		84.79	29	iP	15 34.80	0.4
		1.5s	1057.91nm			6.4mb
				i	16 02.30	
TNS		84.79	330	iPKPc	15 34.50	0.0
				ePP	17 05.50	
				iS	25 29.50	
EKA		84.94	338	Pd	15 35.50	0.5
		0.6s	167.60nm			6.0mb
ESK		84.96	338	iPc	15 34.80	-0.4
		1.1s	610.00nm			6.3mb
	Z	18s	16.10um			6.5Msz
	N	21s	29.90um			

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	E	19s	26.40um				BSF	87.32	329	iPc	15	45.80	-1.0	LPO	92.19	330	iPc	16	09.30	0.0
			i	17	10.30			1.4s	551.30nm			6.2mb			1.6s	1200.10nm			6.6mb	
			i	18	59.20		HAU	87.38	329	iPc	15	46.20	-0.8	ACO	92.69	42	eP	16	12.30	0.5
			iS	25	24.80			1.4s	490.00nm			6.2mb					e	20	01.50	
LJU	85.06	324	iPc	15	35.20	-0.6	PRO	87.39	323	eP	15	46.50	-0.5	MLS	93.64	329	eP	16	15.20	-0.8
			e	17	06.20		ROF	87.39	329	iPc	15	46.00	-1.1	EPF	93.89	330	iPc	16	16.30	-1.0
			e	19	03.00		DLE	87.72	339	iPc	15	48.10	-0.4		1.6s	280.00nm			6.1mb	
			eS	25	20.00			1.8s	3200.00nm			6.9mb		RRO	94.03	42	eP	16	19.30	1.3
FUR	85.08	327	iPc	15	36.00	0.1	FOG	87.77	320	eP	15	49.80	0.9				e	16	21.00	
	1.4s	1895.00nm			6.7mb		ALP	87.87	322	iPc	15	49.40	0.1	OCO	94.47	42	ePc	16	20.60	0.6
			i	17	06.00		MMK	88.17	327	eP+	15	50.30	-0.8	PCR	94.56	248	eP-	16	21.90	1.1
			eS	25	34.00		DUI	88.20	321	iPc	15	50.00	-0.9	ACM	94.59	30	ePc	16	20.70	0.3
TTG	85.09	319	eP	15	35.50	-0.5				e	17	24.00		SIO	94.95	41	eP	16	22.60	0.4
			ePcP	15	40.50		ORI	88.26	318	iPc	15	51.00	-0.2	TUL	95.10	40	iPc+	16	22.50	-0.4
			i	17	17.20					e	17	24.00			2.9s	4138.80nm			7.1mb	
			ePP	18	34.00		AOU	88.26	322	iPc	15	51.00	-0.3	Z	18s	14.90um			6.5Msz	
			eS	25	21.00					i	17	21.50		AAM	95.78	29	ePc	16	26.00	0.2
RBL	85.25	325	iPc	15	35.50	-1.3				i	19	23.50		ELF	95.93	27	P	16	27.00	0.5
CEY	85.33	324	iPc	15	36.30	-0.9	FIR	88.31	324	eP	15	51.50	0.1	OTT	95.96	22	eP	16	26.00	-0.5
HLW	85.39	303	iPc	15	38.00	0.3				iS	25	40.00			1.0s	219.00nm			6.3mb	
			e	17	00.00		DIX	88.39	327	eP+	15	51.60	-0.6	LDN	96.12	27	P	16	28.00	0.7
			e	18	05.00		SGO	88.53	319	iPc	15	51.50	-1.0	IN1	96.30	31	ePc	16	28.00	-0.1
			eS	25	25.00					e	17	22.50		UTO	96.34	29	ePc	16	30.50	2.2
ENN	85.42	331	iPc	15	37.00	-0.4				e	19	26.00		IN2	96.40	32	ePc	16	28.80	0.2
	1.5s	2107.00nm			6.8mb		MNS	88.61	322	iPc	15	51.50	-1.3	JCT	96.76	47	iP	16	30.20	-0.3
			epP	17	14.50	428kmX				e	17	22.00			1.0s	150.00nm			6.2mb	
			iPP	19	05.10					e	19	29.00					i	18	21.00	
RMU	85.47	48	iP	15	41.10	2.9	EMS	88.62	328	eP+	15	52.40	-0.7	BNH	98.03	20	iP	16	40.00	4.0X
GLA	85.48	53	eP	15	37.00	-1.2	LOR	89.00	330	iPc	15	53.90	-0.7				e	18	09.00	
GAP	85.68	326	eP	15	38.60	-0.3		1.4s	551.30nm			6.2mb		ALI	98.08	327	iP+	16	40.50	4.3X
SCE	85.71	326	iPc	15	38.00	-1.2	LBF	89.18	330	iPc	15	54.50	-1.0				iPP	20	43.50	
UCC	86.01	332	Pc+	15	40.40	0.1		1.4s	367.50nm			6.1mb		TOL	98.34	331	ePc	16	37.00	-0.5
	1.8s	811.00nm			6.3mb		GRC	89.31	331	iPc	15	55.60	-0.4		1.5s	7.00nm			4.8mb	X
BUH	86.06	329	iPc	15	39.90	-0.8				iS	26	16.40					i	18	12.00	
GWF	86.09	329	iPc	15	40.20	-0.6	SSF	89.32	330	iPc	15	55.30	-0.7				iPPP	22	16.00	
OGA	86.15	326	iPc	15	40.80	-0.6		1.4s	612.50nm			6.3mb					iSKS	26	36.00	
WLF	86.18	330	P+	15	44.00	2.9	SMF	89.51	330	iPc	15	56.10	-0.9				iS	27	28.00	
			pP	17	11.00	376kmX		1.6s	880.10nm			6.4mb					iPS	28	50.00	
			e	18	04.00		FLN	89.51	333	iPc	15	56.20	-0.7				iSS	34	10.00	
			S	25	32.00			1.6s	800.10nm			6.3mb					eSSS	37	55.00	
			i	25	44.00		LDF	89.52	333	iPc	15	56.20	-0.7	STJ	98.67	7	eP	16	40.50	1.7
			e	28	20.00			1.6s	1120.10nm			6.5mb		PTO	99.01	334	P	16	40.20	-0.3
PMO	86.43	111	iP	15	44.30	1.6	SCH	89.55	13	ePc	15	57.00	-0.1				iS	26	40.00	
AFR	86.47	114	iP	15	44.90	2.0		1.2s	657.00nm			6.4mb					iPS	27	30.00	
	1 3s	3910.00nm			7.1mb		AVF	89.59	330	iPc	15	56.70	-0.6	NAI	99.02	274	eP	16	42.00	0.9
DOU	86.47	331	Pd	15	42.70	0.2		1.6s	1120.10nm			6.5mb			2.0s	352.94nm			6.3mb	
			pP	17	12.00	386kmX	ALQ	89.63	47	iPc+	15	59.00	1.0	MTE	99.26	333	ePd	16	41.50	-0.2
			e	18	09.00			1.0s	400 00nm			6.2mb		CRT	100.42	329	ePdiff	16	45.50	-1.2
			S	25	32.00		Z	18s	13.23um			6.4Msz					iPP	20	59.70	
			e	25	46.00					epP	17	28.00	382kmX	PAL	100.48	23	ePdiff	16	47.80	1.0
			e	28	25.00		MCO	89.88	167	eP	15	59.00	0.9				pP	18	20.00	
SLE	86.63	328	eP+	15	42.50	-0.9		1.6s	1.10nm			3.5mb	X	RKT	101.06	110	ePdiff	16	53.00	3.2X
TPT	86.63	110	iP	15	45.30	1.6	GRR	89.96	333	iPc	15	58.60	-0.4		1.3s	120.00nm			6.3mb	
	1.3s	4020.00nm			7.1mb			1.6s	1680.20nm			6.7mb		MAL	101.16	329	iPdiff	16	50.20	0.3
SAX	86.64	327	eP+	15	43.20	-0.6	LPF	90.33	333	iPc	16	00.60	-0.1				iPP	20	56.00	
PPT	86.64	114	iP	15	45.90	2.1		1.6s	2080.30nm			6.8mb					iS	27	41.00	
	1.3s	3565.00nm			7.1mb		MZF	90.37	330	iPc	16	01.10	0.1				iPS	29	36.00	
CDF	86.67	329	iPc	15	43.00	-0.7		1.6s	1440.20nm			6.6mb		BLA	101.41	30	ePdiff	16	54.10	3.0X
	1.6s	960.10nm			6.4mb		CVF	90.38	324	iPc	15	59.90	-1.2		2.0s	876.47nm			7.0mb	
OSS	86.69	326	eP+	15	43.50	-0.4		1.6s	368.60nm			6.0mb		PAF	101.59	218	iPdiff	17	00.00	8.5X
PAE	86.69	114	iP	15	46.00	2.0	TCF	90.47	330	iPc	16	01.00	-0.4	SFS	102.14	330	ePdiff	16	54.00	-0.2
	1.3s	2750.00nm			7.0mb			1.4s	673.80nm			6.3mb					e	18	20.00	
PPN	86.73	113	iP	15	46.00	1.8	FRF	90.68	326	iPc	16	01.10	-1.3				iPP	21	06.00	
	1.3s	3095.00nm			7.0mb			1.6s	480.00nm			6.2mb					ePPP	22	30.00	
VAH	86.77	111	iP	15	45.80	1.4	LSF	90.78	331	iPc	16	02.30	-0.5				eS	26	33.00	
	1.3s	2065.00nm			6.8mb			1.4s	1225.10nm			6.6mb					iPS	28	05.00	
ECH	86.87	329	iPc	15	43.60	-0.9	LRG	90.89	326	iPc	16	02.60	-0.7				iSP	30	10.00	
ZUL	86.89	328	eP+	15	43.80	-0.9		1.6s	832.10nm			6.4mb					iSS	35	00.00	
RUV	86.94	110	iP	15	46.70	1.5	LMR	90.91	326	iPc	16	02.60	-0.9				iSSS	39	00.00	
	1.3s	3215.00nm			7.0mb			1.6s	720.10nm			6.3mb		CRX	104.62	54	Pdiff	17	09.60	3.5X
TVO	87.02	114	iP	15	47.80	2.2	CDR	90.99	327	ePc	16	02.70	-1.1	IIC	104.66	54	ePdiff	17	10.50	4.3X
	1.3s	3910.00nm			7.1mb					i	16	06.00		IIM	105.01	54	ePdiff	17	16.00	8.2X
LLS	87.08	327	eP+	15	45.10	-0.7				ipP	17	33.90	392kmX	IIP	105.18	54	ePdiff	17	14.00	5.4X
GOL	87.09	43	iP	15	47.00	0.9				iPP	20	50.00		AVE	105.36	329	iPdiff	17	09.00	0.3
	1.5s	1022.01nm			6.5mb					e	25	58.10		III	105.48	55	ePdiff	17	13.00	3.3X
			e	17	16.00		GIB	91.06	318	eP	16	04.50	0.1	IIT	105.81	54	ePdiff	17	17.00	5.7X
GLD	87.14	43	iP	15	47.10	0.9				e	19	43.00		TAM	107.16	313	ePdiff	17	16.50	-0.6
	1.5s	1906.25nm			6.7mb		MFF	91.16	332	iPc	16	04.60	0.0	VHO	108.13	54	iPdiff	17	33.00	11.5X
			e	17	21.00			1.6s	3040.40nm			7.0mb		BNG	110.55	290	iPdiff	17	32.00	-0.2
VDL	87.15	327	eP+	15	45.50	-0.7	RJF	91.55	330	iPc	16	06.40	0.0		0.9s	10.00nm				
BAF	87.23	329	iPc	15	45.40	-1.0		1.6s	1680.20nm			6.7mb		MTD	111.59	264	ePdiff	17	40.00	3.2X
BRT	87.27	319	eP	15	47.50	1.0	CAF	91.63	330	iPc	16	07.00	0.2	MTD	111.59	264	iPKP	21	34.00	1.2
			e	17	18.00			1.6s	1120.10nm			6.6mb					iPP	22	21.00	
			e	19	16.00		AAE	91.66	282	eP	16	08.00	0.3				iPKKP	32	28.00	
DMU	87.29	339	iPc	15	46.40	-0 1	ERC	91.80	319	eP	16	06.50	-1.1	KRI	113.25	265	iPKP	21	36.00	-0.1
	1.7s	3120.00nm			6.9mb		LFF	92.17	330	iPc	16	09.50	0.3				iPP	22	33.00	
SAL	87.31	325	eP	15	45.50	-1.2		0.6s	656.20nm			6.8mb					iPKKP	32	22.00	

01d 09h

KRI	113.25	265	ePdiff	17	43.00	-1.2
MAW	114.92	204	ePdiff	18	01.00	10.8X
	1.0s	103.00nm				
	Z 16s	6.70um			6.3MszX	
BUL	115.68	262	ePdiff	17	56.00	1.0
	1.0s	15.00nm				
BUL	115.68	262	iPKP	21	40.00	-0.7
			iPP	22	52.00	
			iPKKP	32	15.00	
EVA	118.19	256	e(Pdif	18	16.00	10.0X
			i	21	45.00	
BLF	121.60	254	iPKPd	21	51.50	-0.2
GRM	122.89	249	iPKPd	21	53.50	-0.4
	1.2s	171.88nm				
	Z 20s	12.06um			6.5Msz	
			i	23	30.50	
SJG	124.04	27	ePdiff	18	34.00	2.0
KIC	126.03	310	iPKP	21	59.30	-1.2
			e	31	36.00	
BPA	126.51	22	iPKPd	22	00.40	-0.9
SUR	127.10	253	iPKPd	22	02.80	0.5
	1.3s	230.77nm				
	Z 18s	30.41um			7.0Msz	
			i	24	46.00	
SEG	127.23	22	iPKPd	22	01.90	-0.8
SFG	127.46	22	ePKP	22	02.60	-0.5
PAG	127.52	23	ePKP	22	02.90	-0.4
MGG	127.74	22	ePKP	22	03.00	-0.6
MDN	128.28	23	ePKPd	22	04.30	-0.4
CER	128.63	252	ePKP	22	05.50	0.5
	1.0s	160.00nm				
LGN	128.89	37	ePKP	22	12.40	6.5X
FDF	128.91	23	iPKPc	22	05.55	-0.4
BIM	129.13	23	ePKP	22	06.05	-0.3
MVM	129.16	22	ePKP	22	06.15	-0.3
TOV	129.92	35	iPKPd	22	08.50	0.5
	0.9s	168.50nm				
CAR	130.60	31	ePdiff	19	02.00	0.7
			ePP	21	16.00	
BOG	132.02	43	ePdiff	19	09.00	1.0
			ePP	22	12.00	
ATB	148.61	17	iPKP	22	40.50	-0.8
ARE	149.32	63	iPKPc	22	42.50	-0.2
CAI	152.40	347	ePKPc	22	47.10	0.2
	1.3s	829.81nm				
ANT	154.21	74	iPKP	22	49.50	0.4
CON	155.48	106	iPKP	22	50.00	-0.4
			i	23	20.80	
SOB1	155.55	354	ePKP	22	51.60	0.4
			i	23	03.60	
LNV	156.59	99	ePKP	22	52.00	0.0
			i	23	24.40	
TACH	156.94	98	iPKPc	22	53.50	1.0
			i	23	27.50	
PEL	157.08	96	iPKP	22	54.00	1.3
			i	23	28.60	
YJA	157.26	65	ePKPc	22	53.80	0.0
BACH	157.27	97	ePKP	22	54.50	1.5
HJA	157.91	68	ePKPc	22	55.00	1.2
			e	23	31.00	
CEN	158.40	91	e(PKP)	22	59.00	4.7X
MDZ	158.56	95	ePKP	22	53.90	-0.5
SLA	158.63	71	iPKPc	22	54.50	-0.4
CFA	158.83	91	ePKPd	22	55.60	0.9
			S	23	35.30	
CYA	159.97	81	iPKPc	22	55.50	-0.6
BAO	161.52	15	iPKP	22	58.80	0.8
TCA	161.81	88	ePKPc	22	57.00	-0.9
VBA	164.17	111	iPKPd	23	00.00	0.1
			e	23	57.50	
			e	25	47.00	
			e	27	45.00	
LPA	167.76	100	iPKPd+	23	03.20	0.5
	1.2s	2000.00nm				
VAO	168.86	18	ePKPc	23	04.90	1.0
			i	24	19 20	
BMA	169.02	5	ePKPc	23	05.20	1.2

S.D. = 0.9 on 432 of 456 obs.

FEB 07, 1984 21h 33m 20.34± 0.08s
9.998 S ± 2.1km 160.477 E ± 2.0km
DEPTH = 10.9km (15 depth phases)
6.7mb (60 obs.) 7.5Msz (31 obs.)
SOLOMON ISLANDS (193)
Damage in southern Guadalcanal and some landslides reported. Felt throughout the Solomon Islands, (VI) at Honiaro and (III) at Rabaul, New Britain.

HNR	0.77	317	iPc	33	34.00	-1.2
			iS	33	47.00	
VSG	1.06	314	iP	33	39.00	-1.2
SVO	1.07	322	iPd	33	39.00	-1.3
PAA	6.15	306	ePc	34	54.50	1.1
			eS	36	07.00	
LOSU	9.40	278	eP	35	38.00	-0.7
RAB	10.06	304	eP-	35	48.00	0.1
PVC	10.82	136	iPd	35	57.00	-1.3
KOU	11.12	161	iPc	36	02.70	0.3
KUPN	12.11	269	eP	36	15.00	-0.8
KVG	12.12	307	eP	36	15.00	-1.0
LMG	12.21	274	P	36	17.00	-0.3
PMG	13.15	271	P	36	29.00	-0.7
NOU	13.52	156	iPc	36	35.50	0.9
LAT	13.74	283	P	36	37.00	-0.6
CTA	16.99	232	iPd-	37	18.60	-1.1
WWW	17.88	290	eP	37	30.50	-0.3
NDF	18.18	117	iPc	37	35.20	0.7
BRS	18.76	202	iP	37	41.90	0.2
VUN	19.17	117	ePc	37	46.00	-0.7
	2.4s	3921.00nm			6.2mb	
SVA	19.21	117	eP	37	46.80	-0.3
JAY	21.00	289	ePc	38	02.70	-3.7X
	1.0s	221.60nm			5.5mb X	
COO	21.98	200	iPd	38	16.70	0.4
ISO	22.79	240	iPd	38	24.40	0.1
RIV	25.22	198	eP	38	53.00	5.3X
	0.8s	******nm			8.1mb X	
CMS	25.34	210	eP	38	49.00	0.2
YOU	26.59	203	iPc	39	01.40	0.9
WB2	27.07	246	iPd	39	03.20	-1.8
WRA	27.08	246	Pd	39	03.30	-1.8
	0.9s	199.50nm			5.8mb	
CAN	27.29	201	iPc	39	08.10	1.1
			i	39	13.00	17km
AFI	27.41	101	iPc	39	07.00	-1.3
			S	44	00.00	
STK	27.93	216	iPd	39	11.70	-1.0
GUA	28.02	326	eP	39	12.70	-1.0
	1.1s	2592.41nm			6.9mb	
			e	39	20.80	28kmX
			e(S)	44	04.50	
GUMO	28.09	326	eP	39	13.60	-0.7
	1.7s	7487.81nm			7.2mb	
			e	39	20.20	23kmX
PJG	28.09	326	eP	39	13.60	-0.7
WAM	28.12	200	iPc	39	15.70	1.3
			i	39	20.60	17km
ASPA	28.77	238	eP	39	18.00	-2.4
MTN	28.90	262	eP	39	19.00	-2.6
NUE	29.99	111	eP	39	28.90	-2.5
TOO	30.60	204	eP	39	37.00	0.4
KNA	31.41	256	eP	39	42.00	-1.9
BFD	31.53	208	eP	39	44.00	-0.8
ADE	31.82	215	iPd	39	46.80	-0.6
GNZ	32.57	154	P	39	52.50	-1.3
AAI	32.64	279	eP	39	51.40	-3.3X
	0.8s	127.30nm			5.9mb	
TCW	33.39	161	P	40	00.00	-1.0
WEL	33.62	160	iP+	40	02.80	-0.1
			S	45	27.00	
			ScS	50	29.00	
SNZO	33.62	160	e(P)	40	03.00	0.1
WBN	35.86	239	iPd	40	20.90	-1.5
KUPT	36.29	266	eP	40	30.00	3.9X
			eS	46	45.00	
MNI	37.25	286	eP	40	32.00	-2.2
	1.0s	249.60nm			5.9mb	
			e(S)	46	33.00	
DAV	38.68	295	eP	40	45.00	-1.2
RAR	39.77	111	P	40	56.00	0.9
			eS	47	00.00	
MKS	40.90	274	ePd	41	05.50	0.9
CBI	40.92	335	P	41	03.30	-1.2
			S	42	51.70	
KLG	41.72	235	iPc	41	10.00	-1.1
MEK	42.87	242	iPd	41	19.70	-0.9
PAP	43.82	299	ePd	41	32.80	4.5X
	1.5s	12.80nm			4.5mb X	
MCO	44.40	181	eP	41	38.00	5.5X
KLB	44.97	235	eP	41	40.00	2.5
BAL	45.52	237	eP	41	36.00	-5.9X
MVI	45.58	322	eP	41	47.00	4.6X
PGP	45.65	300	ePc	41	44.50	1.4
NWAO	45.83	233	eP	41	42.00	-2.3
MUN	46.34	235	eP	41	50.00	1.6
RKG	46.40	232	eP	41	54.00	5.2X
KKM	46.88	288	eP	41	51.20	-1.8
	1.2s	412.20nm			6.4mb	
			e	42	02.90	42kmX
			e	42	14.40	
TRT	47.30	269	ePd	41	55.40	-0.8
	1.0s	62.30nm			5.7mb X	
BAG	47.40	303	eP-	41	54.00	-3.1X
NAH	48.08	319	P	42	04.30	2.2
NGO	48.16	320	P	42	05.10	2.4
			S	49	15.00	
NZJ	48.50	323	eP	42	09.00	3.7X
			S	49	16.00	
MYK	48.72	316	eP	42	11.00	4.0X
KMJ	48.73	319	P	42	10.00	2.9X
			S	49	21.80	
AFR	48.78	105	iP	42	09.80	2.1
OSH	48.80	337	P+	42	09.40	1.9
			S	49	19.90	
KYS	48.89	338	eP	42	10.30	2.1
PAE	48.97	105	iP	42	11.20	2.1
PPT	48.98	105	iP	42	11.30	2.1
	1.0s	1705.00nm			7.0mb	
CHO	49.11	339	eP	42	10.00	0.1
PPN	49.11	105	iP	42	12.50	2.3
AJI	49.15	337	eP	42	11.00	0.8
			e	49	24.00	
ISI	49.20	314	eP	42	12.00	1.2
			eS	49	29.00	
YOK	49.29	337	iP	42	12.90	1.7
TVO	49.29	105	iP	42	14.00	2.3
SHZ	49.37	336	eP	42	13.00	1.1
TAJ	49.41	326	eP	42	14.00	1.7
			eS	49	35.00	
OYM	49.43	337	eP	42	10.80	-1.6
TOK	49.47	338	P+	42	15.20	2.6
			eS	49	34.00	
TBI	49.52	112	eP	42	16.00	2.7
	1.2s	3125.00nm			7.2mb	
SRY	49.58	337	eP	42	12.90	-0.7
MRT	49.77	331	Pd	42	16.30	1.3
			e	49	32.00	
TSK	49.81	338	eP	42	15.10	-0.2
MIT	49.83	339	eP	42	16.00	0.6
			eS	49	30.00	
ASZ	49.91	329	eP	42	17.00	0.9
			eS	49	26.00	
DDR	49.96	337	eP	42	15.70	-0.8
IID	50.06	336	eP	42	18.00	0.7
			e	49	35.00	
MYZ	50.09	327	eP	42	19.00	1.5
UTS	50.19	338	eP+	42	20.00	1.8
			e	49	40.00	
OSK	50.22	333	eP	42	20.00	1.5
KAG	50.30	326	eP	42	22.00	3.0X
KOC	50.33	331	eP	42	20.00	0.8
			e	49	40.00	
OSA	50.33	333	eP	42	21.00	1.7
GIF	50.41	335	eP+	42	21.00	1.2
			e	49	44.00	
NOB	50.48	328	eP	42	21.00	0.6
			eS	49	39.00	
KOB	50.49	333	eP	42	22.00	1.5
			e	49	39.00	
HIK	50.52	334	eP	42	24.00	3.3X
			e	58	05.00	
KYO	50.52	334	eP	42	22.00	1.3
			eS	49	42.00	
PMO	50.56	101	iP	42	20.30	-1.0
TKM	50.70	332	eP	42	23.00	0.9
			eS	49	44.00	
MAT	50.81	337	eP	42	19.00	-4.0X
	2.2s	1000.00nm			6.4mb	
			eS	49	40.00	
VAH	50.81	102	iP	42	22.00	-1.2
	1.0s	1215.00nm			6.8mb	
TPT	50.83	101	iP	42	22.40	-1.0
	1.0s	2050.00nm			7.0mb	
OIT	51.02	329	iPd	42	26.50	2.0
			eS	49	22.00	
RUV	51.05	101	iP	42	24.00	-1.1
	1.0s	1410.00nm			6.8mb	
OKA	51.07	332	eP	42	24.00	-0.9
			eS	49	54.00	

KUM	51.17	328	eP	42	25.00	-0.6					epP	43	33.50	41kmX				PS	53	57.00		
HON	51.29	52	P	42	28.00	1.2					esP	43	40.00		MGD	70.29	355	ePc	44	34.00	-1.5	
KIP	51.34	52	P	42	28.00	0.8					ePcP	44	13.00			1.0s	320.00nm			6.4mb		
SEN	51.37	340	eP	42	37.00	9.9X					iS	51	26.00					isP	44	52.00		
			S	49	55.50		VLA	58.94	336	iPd	43	24.00	2.0					iPcP	45	02.00		
ISN	51.39	341	eP	42	28.00	0.7					iS	51	24.00					iS	53	41.00		
			e	49	41.00		WHN	59.88	314	P	43	28.50	-0.2	TUP	72.71	337	ePc	44	51.00	0.9	
OPA	51.49	52	P	42	27.00	-1.3	KLM	60.01	279	eP	43	31.30	1.4		1.7s	790.00nm				6.5mb		
HIR	51.52	330	eP	42	30.00	1.7				e	43	41.10	32kmX	SDN	72.81	22	eP	44	47.10	-3.6X		
			e	49	55.00		PPI	60.48	275	eP	43	32.50	-0.6				e	44	50.20	10km		
SHK	51.53	331	eP	42	20.00	-8.5X				e(S)	48	14.00					i	44	54.30			
YAM	51.55	340	eP	42	29.00	0.5	SKR	60.53	357	eP	43	30.00	-2.8	SEY	72.94	356	ePc	44	49.40	-1.9	
			eS	49	59.00			6.0s	*******	nm			7.4mb X		1.8s	2930.00nm				7.1mb		
NGS	51.56	327	eP	42	30.00	1.4				ePcP	44	12.00					ePcP	45	04.00			
			S	49	56.20					ePP	45	47.00					eS	54	12.00			
MOK	51.58	52	P	42	30.00	1.0				iS	51	46.00					iSP	54	35.00			
ANP	51.61	313	eP-	42	32.00	2.7	DL2	60.62	326	iPc	43	33.00	-0.5				eSS	58	43.00			
			eS	49	56.00		IPM	60.96	281	ePd	43	34.20	-2.2	GTA	74.64	316	P	45	01.80	-0.1		
TOT	51.63	333	eP	42	32.00	2.9X		1.4s	160.40nm			6.0mb					S	54	38.00			
			eS	49	55.00					e	43	55.80	85kmX	YAK	75.69	346	iPc	45	04.10	-3.1X		
FKK	51.94	328	Pd	42	32.50	1.0				e	44	59.60			0.9s	2090.00nm				7.2mb		
			S	49	53.50		MDJ	61.12	335	iPc	43	36.50	-0.4				iPP	47	55.60			
SHN	51.94	329	eP+	42	33.00	1.5				iS	51	57.00					iPPP	49	45.00			
			eS	50	01.00		TIA	61.46	321	Pc	43	38.90	-0.5				iS	54	46.20			
AIK	52.10	338	eP	42	33.00	0.4	SNY	61.70	329	eP	43	39.50	-1.4				eSKS	55	04.60			
FKJ	52.10	326	P+	42	34.50	1.8				S	52	02.50					iScS	55	09.00			
			S	50	01.50		CN2	62.28	332	Pc	43	41.80	-3.0X	BOD	77.40	337	eP	45	14.70	-2.2		
MTS	52.10	332	iP+	42	35.20	2.5				S	52	01.00			1.0s	1280.00nm				7.0mb		
			S	50	03.00		PSI	62.57	278	ePc	43	44.50	-2.7	LSA	77.44	303	eP	45	16.80	-1.5	
HMD	52.12	330	eP	42	34.00	1.2		1.6s	337.00nm			6.3mb					S	55	10.10			
			eS	50	04.00		PET	62.78	359	eP	43	47.00	-0.8	KDC	77.62	24	eP	45	18.90	0.9	
MIY	52.29	342	eP	42	36.00	1.9		2.5s	2570.00nm			7.0mb					e	45	22.10	10km		
			eS	50	06.00					eS	52	14.00		ZAK	77.93	327	eP	45	18.00	-1.9		
MKH	52.53	56	P	42	36.00	-0.2	RKT	62.80	111	iP	43	50.60	2.0		2.0s	4100.00nm				7.2mb		
MRK	52.59	341	eP	42	35.00	-1.3		1.6s	2585.00nm			7.2mb					iS	55	13.20			
			eS	50	13.00		TSI	63.10	279	ePd	43	51.00	0.3				eSS	00	10.00			
AKI	52.96	340	eP	42	40.00	1.0	PCT	63.47	292	eP	43	56.20	3.1X	IRK	78.41	329	eP	45	22.00	-0.5		
			eS	50	23.00			1.5s	710.00nm			6.6mb			2.2s	880.00nm				6.4mb		
IZU	52.99	327	eP	42	40.00	0.6				e	12	37.60					ePcP	45	31.50			
			e	50	13.00		SMY	63.56	9	eP	43	53.80	0.8				epP	45	37.00	53kmX		
HAC	53.24	342	eP	42	40.00	-1.1	Z	20s	300.00um			7.5Msz					eS	55	10.00			
			eS	50	20.00					i	43	56.80	10km	ILT	79.12	8	iPc	45	25.00	-1.1		
QZH	53.60	311	iPc	42	45.00	1.0				i	44	01.30			1.5s	1800.00nm				6.9mb		
URA	54.38	344	eP	42	50.00	0.6	GYA	63.58	306	P	43	53.00	-0.9				iPcP	45	38.00			
			eS	50	35.00		NNT	64.37	289	eP	44	01.10	2.1				isP	45	44.00			
HAK	54.65	342	eP	42	51.00	-0.4	BJI	64.49	324	eP	43	57.00	-2.3				iS	55	24.00			
			e	50	40.00		Z	20s	199.00um			7.3Msz					eScS	55	38.00			
KUS	54.73	346	eP	42	52.00	0.0	E	19s	148.00um								iSS	00	20.00			
			eS	50	41.00					pP	44	36.00	164kmX	TTA	80.01	19	eP	45	29.10	-2.0		
NEM	54.78	347	eP	42	50.00	-2.4				sP	44	56.00					ic	45	32.30	10km		
			eS	50	43.00					ScP	48	07.00					id	45	35.90			
OBI	54.97	345	eP	42	54.00	0.2				PcS	48	28.00		SPA	80.07	180	iPc	45	31.30	-0.2		
			e	50	43.00					S	52	31.00			1.1s	202.38nm				6.0mb		
SSE	55.57	319	P+	42	56.60	-1.7				e	53	48.00		Z	20s	63.78um				7.0Msz		
	6.0s	29.20nm				4.5mb X				SS	56	56.00		PMR	81.44	22	eP	45	36.20	-2.4		
Z	22s	316.90um				7.4Msz	ADK	64.70	15	eP	43	58.50	-2.0		1.3s	122.60nm				5.8mb		
E	20s	188.70um								i	44	01.10	8km	Z	22s	330.00um				7.6Msz		
			sP	43	11.00	86kmX				i	44	04.80					i	45	39.20	10km		
			i	43	18.00		NST	64.96	292	eP	44	02.00	-0.8				id	45	43.20			
			PcP	44	06.00		TIY	65.34	320	P	44	04.50	-0.5	PKI	81.61	300	eP	45	38.60	-2.1		
			S	50	37.50		XAN	65.64	314	P	44	05.00	-2.0	KKN	81.78	300	eP	45	39.60	-1.8		
			PS	50	48.50		KHT	66.09	291	eP	44	13.90	3.8X	DMN	81.88	300	eP	45	40.40	-1.6		
			sS	50	53.00		KMI	66.18	303	P+	44	10.00	-0.9	IMA	82.97	17	eP	45	44.80	-1.8		
			i	57	09.50		E	17s	127.30um								ic	45	47.60	9km		
HKC	55.59	306	eP	43	01.00	2.4				sP	44	29.00					i	45	51.30			
SAP	55.62	343	eP	42	55.00	-3.5X				PcP	44	35.00		MAW	83.72	202	eP	45	51.00	0.7		
			eS	50	47.00					PP	46	32.00		COL	84.02	20	iP	45	49.20	-2.6		
SUT	55.69	342	eP	43	02.00	3.0X				S	52	56.00			0.7s	22.26nm				5.5mb X		
			eS	50	55.00					sS	53	15.00					i	45	52.00	9km		
ABJ	55.73	346	eP	43	00.00	0.7	BSI	66.70	280	ePd	44	15.00	0.9				eS	56	24.00			
			eS	50	47.00		CHG	67.08	295	iPd	44	13.00	-3.4X	FBA	84.02	20	eP	45	49.00	-2.8		
ASA	55.99	344	eP	43	02.00	0.9		0.6s	10.00nm			5.2mb X		PCA	84.09	26	eP	45	51.80	-0.6		
			eS	50	50.00		CHTO	67.08	295	e(P)	44	12.00	-4.4X				i	45	54.10	7km		
MCO	55.99	305	eP	43	09.00	7.5X	HHC	67.75	322	P	44	20.00	-0.4				e	45	57.10			
KUR	56.14	349	iPd	43	06.00	3.9X	CD2	67.89	309	eP	44	20.50	-0.9	TIK	84.13	350	eP	45	51.00	-1.2		
	1.0s	770.00nm				6.7mb				S	53	19.00			2.0s	3940.00nm				7.3mb		
			isP	43	28.50		NKI	67.95	19	eP	44	19.60	-1.6				esP	46	12.50			
			ePPP	46	26.00					i	44	21.80	7km				eSKS	56	04.00			
			iS	50	40.00					i	44	24.90					eS	56	10.00			
RMJ	56.36	344	eP	43	07.00	3.3X	BTO	68.55	321	Pc	44	25.00	-0.4	WMQ	84.72	316	eP	45	55.00	-0.9		
			eS	51	06.00					S	53	32.00					S	56	20.00			
GZH	56.64	306	eP	43	05.50	-0.7	LZH	70.26	314	Pc	44	35.50	-0.6	KOD	84.98	281	eP	45	56.00	-2.0		
NJ2	57.71	318	Pc	43	14.00	0.4		2.5s	1461.00nm			6.7mb		HYB	85.36	288	eP	45	59.00	-0.5		
			S	51	10.00		N	11s	14.70um						1.0s	550.00nm				6.7mb		
KGM	58.14	279	ePc	43	17.20	0.3	E	17s	85.50um					GBA	85.66	285	Pc	45	59.50	-1.4		
YSS	58.93	346	iPc	43	21.60	-0.2				pP	44	41.00	18km		1.2s	135.70nm				6.0mb		
	1.0s	240.00nm				6.3mb				S	53	29.00		FHC	85.73	47	eP	46	00.50	-0.4		

07d 21h

BRW 85.99 13 eP 46 00.50 -1.0
ic 46 03.30 9km
id 46 07.10
BKS 86.21 51 eP 46 02.70 -0.7
0.8s 440.00nm 6.7mb
N 20s 167.00um
E 20s 200.00um
e 47 22.20 339kmX
e 49 17.50
ePP 49 32.00
e 55 15.00
eS 56 42.00
e 56 52.00
eScS 57 06.00
e 57 44.00
ePPS 57 52.00
e 58 13.00
eSS 01 30.00
e 04 37.10
eSSS 05 58.00
MHC 86.52 51 eP 46 04.20 -0.9
eS 56 45.00
SAO 86.53 52 eP 46 03.40 -1.5
PHC 86.59 37 eP 46 08.50 3.6X
WDC 86.72 48 iPc 46 04.80 -1.0
eS 56 43.50
eP'P' 12 38.00
PRI 86.97 53 iPc 46 06.60 -0.7
eS 56 51.00
SYP 87.12 54 eP 46 09.00 1.0
e 49 40.00
COR 87.31 44 iPc 46 10.00 1.5
MIN 87.34 48 eP 46 07.00 -2.0
JAS 87.60 51 iPc 46 08.80 -1.3
ePP 49 35.00
eS 56 58.00
ePKKP 04 56.00
eP'P' 12 34.00
FRI 87.93 52 iPc 46 10.40 -1.3
eS 56 57.50
PGC 88.39 40 eP 46 12.80 -0.8
PAS 88.48 55 iP 46 13.00 -1.4
2.0s 3600.00nm 7.3mb
ePP 49 51.00
iS 56 54.00
ISA 88.59 54 eP 46 13.00 -2.0
e 46 24.00 35kmX
MWC 88.59 55 eP 46 13.00 -2.2
e 46 21.00 25kmX
e 49 50.00
ELT 88.67 325 iPc 46 13.80 -1.0
1.8s 1820.00nm 7.1mb
SBB 88.88 55 eP 46 15.00 -1.4
SLBC 88.96 56 eP 46 19.00 2.3
CWC 89.07 53 eP 46 17 00 -0.4
e 46 21.00 13km
RVR 89.09 55 eP 46 16.00 -1.3
e 46 27.00 35kmX
PLM 89.37 56 eP 46 17.00 -1.9
e 46 28.00 35kmX
MNA 89.46 51 iPc 46 18.00 -1.2
GSC 89.83 54 eP 46 19.00 -1.9
e 50 01.00
POO 89.97 289 iPd 46 23.40 1.6
0.9s 30.25nm 5.5mb X
BMN 90.61 49 P 46 23.70 -0.8
Z 20s 174.80um 7.5Msz
INK 90.64 20 eP 46 23.00 -0.8
1.0s 304.00nm 6.5mb
NVS 90.83 326 iPc 46 24.00 -0.9
2.1s 720.00nm 6.6mb
iSKS 56 52.00
PRZ 90.89 313 eP 46 28.40 2.7
1.6s 2400.00nm 7.3mb
Z 24s 204.00um 7.5MszX
E 24s 187.00um
eSKS 56 55.00
PNT 91.00 40 eP 46 24.50 -1.4
1.0s 602.00nm 6.9mb
EUR 91.35 50 i(P) 46 27.00 -1.0
0.6s 20.77nm 5.7mb
SEM 91.46 321 ePc 46 26.40 -1.5
1.8s 1980.00nm 7.2mb
ePP 50 06.80
eSKS 56 51.10
eS 57 26.60
e 03 33.30

KSH 92.06 310 Pc 46 33.00 1.9
AAA 92.10 313 iPc 46 34.80 3.7X
5.4s 6.40nm 4.2mb X
Z 21s 108.00um 7.3Msz
N 21s 95.00um
E 21s 12.80um
iSKS 57 01.20
i 03 41.20
NEW 92.37 42 eP 46 31.00 -1.2
1.2s 645.00nm 6.9mb
NRN 92.43 311 eP 46 32.80 -0.2
eSKS 57 04.00
NRI 93.20 340 iPc 46 32.80 -2.7
1.8s 400.00nm 6.5mb
iPP 50 19.00
iSKS 57 08.00
iS 57 41.00
ePS 58 59.00
e 03 59.00
LHD 93.39 42 iPc 46 37.70 0.7
LDM 93.58 42 iPc 46 38.70 0.9
FRU 93.70 313 eP 46 38.00 -0.5
2.0s 1260.00nm 7.0mb
Z 19s 120.00um 7.4Msz
E 19s 131.00um
iS 57 47.00
i 04 07.00
BUT 95.01 44 ePc 46 45.90 1.3
ANR 95.02 310 eP 46 46.80 2.2
2.5s 930.00nm 6.8mb
Z 20s 80.00um 7.2Msz
E 20s 130.00um
ePP 50 38.00
eSKS 57 17.00
eS 57 51.00
eSP 59 11.00
LRM 95.05 45 ePc 46 43.70 -1.2
KHO 95.17 307 iPc 46 45.40 -0.2
6.6s 3300.00nm 6.9mb X
GAR 96.33 308 eP 46 51.90 1.2
2.4s 700.00nm 6.8mb
eS 57 52.50
RSNT 96.45 28 P 46 48.60 -1.9
1.1s 378.00nm 6.8mb
YKC 96.50 28 eP 46 48.00 -2.8
0.9s 372.00nm 6.9mb
KUL 96.63 307 eP 46 51.10 -0.9
3.1s 3700.00nm 7.4mb X
iPP 50 52.10
iSKS 57 24.30
NVL 96.66 190 eP 46 53.00 1.4
1.8s 320.00nm 6.6mb
eSKS 57 34.00
eS 58 10.00
eSP 59 36.00
eSPP 00 25.00
BDW 96.67 48 P 46 50.00 -2.3
1.1s 261.00nm 6.7mb
MBC 97.31 14 eP 46 52.00 -2.2
0.8s 119.00nm 6.5mb
TAS 97.40 311 eP 46 56.20 0.9
2.0s 1000.00nm 7.1mb
Z 22s 160.00um 7.5Msz
N 18s 57.00um
E 21s 162.00um
ePP 50 55.20
ePPP 52 55.20
eSKS 57 24.20
eS 58 06.20
eSPP 00 12.20
QUE 97.98 299 iPc 47 00.00 1.6
eS 57 47.00
ALQ 98.14 56 iPc+ 46 58.00 -1.1
1.0s 151.25nm 6.6mb
Z 22s 240.74um 7.6Msz
SAM 98.97 309 eP 47 03.00 0.5
5.5s 2400.00nm 7.1mb X
Z 24s 210.00um 7.6MszX
E 20s 100.00um
GOL 99.48 51 e(P) 47 03.00 -2.2
Z 20s 300.00um 7.8Msz
PCR 100.04 246 ePdiff47 12.00 3.8X
RSSD 100.81 47 Pdiff 47 10.10 -0.9
KHE 101.82 351 ePdiff47 16.40 1.9
Z 19s 130.00um 7.5Msz
iSKS 57 53.00
eS 58 48.00

e 05 57.00
FFC 102.45 36 ePdiff47 19.00 1.3
III 102.55 73 Pdiff 47 29.00 9.7X
IIC 102.90 72 Pdiff 47 30.00 9.0X
IIM 102.93 72 Pdiff 47 30.60 9.5X
IIP 103.18 72 Pdiff 47 36.00 13.8X
JCT 103.33 61 ePdiff47 24.00 1.6
1.0s 55.00nm 6.3mb
Z 20s 113.48um 7.4Msz
SVE 103.69 326 ePdiff47 21.00 -2.2
5.0s 2300.00nm 7.2mb X
Z 20s 230.00um 7.7Msz
N 20s 36.00um
E 20s 183.00um
ePP 53 46.00
eS 59 00.00
ePS 00 46.00
e 06 22.00
IIT 103.72 73 Pdiff 47 35.00 10.4X
ACO 104.20 55 ePdiff47 29.60 3.6X
0.8s 37.50nm 6.3mb
MHI 104.67 305 ePdiff47 30.00 1.7
e 50 48.00
eS 01 19.00
ARU 104.84 326 ePdiff47 29.00 0.7
2.8s 400.00nm 6.8mb
Z 22s 138.00um 7.5Msz
N 20s 58.00um
E 22s 112.00um
ePP 51 51.50
eSKS 58 08.00
eS 59 04.00
ePS 01 06.00
ATX 104.99 61 Pdiff 47 30.00 0.3
PP 52 00.00
KHI 105.30 303 e(Pdif47 30.50 -0.7
ALE 105.43 5 ePdiff47 31.00 0.5
1.5s 159.00nm 6.8mb
ASH 105.62 307 ePdiff47 34.00 1.7
ePP 52 03.00
ePPP 54 15.50
eSPP 01 54.00
VAN 105.81 307 ePdiff47 34.60 1.4
Z 22s 130.00um 7.4Msz
ePP 51 54.00
ePPP 54 08.00
eSKS 58 14.00
eS 59 16.00
ePS 01 08.00
FCC 106.49 32 ePdiff47 36.00 0.4
TUL 106.89 56 ePdiff47 45.70 7.7X
1.0s 31.50nm 6.3mb
Z 21s 260.40um 7.8Msz
KAT 107.24 308 ePdiff47 43.00 3.5X
6.0s 2000.00nm 7.3mb X
Z 17s 39.00um 7.0MszX
N 17s 44.00um
E 17s 68.00um
ePP 52 15.00
iSKS 58 21.00
BHO 107.64 57 ePdiff47 52.50 11.1X
KBS 109.38 354 iPdiff48 00.00 11.9X
LHC 110.84 42 ePdiff48 05.00 9.7X
LHC 110.84 42 ePKP 52 10.00 14.8X
2.2s 853.00nm
LPS 112.00 79 ePdiff48 04.00 2.7X
e 52 46.50
BAK 112.07 309 iPdiff48 16.00 15.1X
APA 112.81 341 ePdiff48 09.20 5.6X
APA 112.81 341 ePKPc 52 01.80 3.5X
Z 21s 179.00um 7.6Msz
N 21s 39.00um
E 22s 114.00um
iPP 52 44.00
eSKS 58 38.00
iPS 02 17.00
ePPS 03 27.00
i 08 28.00
DAG 113.25 360 iPdiff48 16.00 10.7X
i 52 35.00
iS 00 29.00
KEV 113.43 344 ePdiff48 15.00 8.8X
KEV 113.43 344 iPKP 52 03.10 3.6X
ePP 52 44.00
epPPP 55 44.00
ePS 02 16.00
iPKKP 02 51.00

07d 21h

KRV	114.74	310	iPdiff	48	22.00	9.2X	OTT	120.57	43	ePKP	52	15.50	1.6	KONO	125.84	342	ePKP	52	25.40	1.8
			iPP	53	09.00			0.9s	176.00nm					REY	125.92	1	iPKP	52	24.70	1.1
GRO	114.79	313	ePdiff	48	10.00	-2.9X				pP	52	24.00		PPE	126.11	321	ePKP	52	27.00	2.4
GRO	114.79	313	ePKP	52	03.00	0.1	SEK	120.61	229	iPKPd	52	16.50	1.8	CFR	126.23	320	ePKPc	52	27.00	2.2
Z	26s	171.00um				7.5MszX		0.6s	76.67nm					BER	126.41	345	ePKP	52	28.00	3.3X
N	18s	150.00um					UPA	120.87	85	e(PKP)	52	16.00	0.7	LVV	126.43	326	iPKP	52	25.20	0.1
E	18s	22.00um					Z	20s	22.34um				6.8Msz				ePP	54	16.00	
			iPP	53	05.00		N	20s	13.48um								eSKS	59	22.00	
KER	114.84	303	e(Pdif	48	15.00	1.4	E	20s	12.41um								ePS	04	21.00	
GRS	114.90	309	ePdiff	48	15.40	1.6				i	52	28.50					e	11	37.00	
	6.0s	1060.00nm								i	53	51.50		TLB	126.56	319	ePKPc	52	28.00	2.6X
			iPP	53	05.00		BLF	121.23	227	ePKP	52	14 50	-1.4	ODB	126.66	321	ePKP	52	44.00	18.4X
SOD	115.03	342	iPdiff	48	21.60	8.2X		0.8s	68.75nm					GPA	126.66	313	ePKP	52	28.10	2.2
			i	51	57.40					i	52	32.00		VRI	126.82	321	ePKP	52	28.00	2.0
			iPKKP	02	34.00		VIR	121.31	228	ePKP	52	17.00	1.0	CVO	127.19	321	ePKPc	52	29.00	2.3
SOD	115.03	342	iPKP	51	57.40	-5.3X		1.0s	80.00nm					ISR	127.27	320	ePKPc	52	30.00	3.1X
TAB	115.09	307	ePdiff	48	16.00	1.4	BPI	121.45	231	ePKP	52	16.50	0.1	ISK	127.27	315	ePKP	52	26.00	-0.9
TAB	115.09	307	e(PKP)	52	15.00	11.1X	PSO	121.89	95	ePKP	52	18.50	0.6	BCK	127.38	310	ePKP	52	28.00	0.6
TRO	115.57	346	ePKP	52	03.80	0.2	MNT	121.93	42	iPKPc	52	18.00	1.6	MLR	127.48	321	ePKP	52	28.00	0.6
MTA	115.72	311	iPdiff	48	24.80	7.7X		1.3s	218.00nm					DMK	127.88	316	ePKP	52	27.60	-0.5
AAM	115.75	48	ePdiff	48	20.00	2.7X	BFS	122.01	230	ePKP	52	16.20	-1.2	MSR	127.91	322	ePKP	52	30.00	1.9
FRB	116.22	22	ePKP	52	06.00	1.0		0.9s	50.42nm					BUC1	127.95	319	ePKP	52	35.00	6.9X
FRB	116.22	22	ePdiff	48	24.00	5.2X	ARE	122.26	117	ePKP	52	22.00	3.7X	COP	127.99	338	ePKP-	52	35.00	7.2X
MOS	116.39	328	ePKP	52	05.00	-0.6	KVT	122.27	312	ePKP	52	27.00	9.7X	Z	20s	17.73um				6.7Msz
			epPKP	52	16.00		FSA	122.31	129	ePKPc	52	19.00	1.3				i	54	36.00	
			iPP	53	21.00		MNK	122.41	329	ePKP	52	20.00	3.0X	UZH	128.03	326	iPKP	52	29.40	1.3
			eSKS	58	50.00					ePP	53	52.00			2.1s	1450.00nm				
MOS	116.39	328	ePdiff	48	30.00	10.3X				ePPP	56	34.00		Z	20s	120.00um				7.6Msz
	2.0s	200.00nm								eSKS	59	09.00					ipPKP	52	40.00	
PYA	116.53	314	iPdiff	48	31.30	10.6X				ePS	03	38.00					iPP	54	27.50	
	1.3s	260.00nm								e	10	36.00					iSKS	59	30.00	
			ePP	53	20.00		MNK	122.41	329	ePdiff	48	55.00	8.5X	KCT	128.07	314	iPKP	52	29.20	0.7
LEN	116.58	311	ePKP	52	06.00	-0.7	LPA	122.42	143	ePKP+	52	18.00	0.3	DST	128.11	313	iPKPc	52	29.10	0.4
LEN	116.58	311	ePdiff	48	25.00	3.8X	Z	20s	97.16um				7.5Msz	ELL	128.12	309	iPKPc	52	39.50	10.6X
	4 0s	2700.00nm								iPP	53	54.00		CMP	128.15	321	ePKPc	52	33.00	4.4X
KJF	116.60	339	iPdiff	48	28.00	7.5X	SIM	122.42	317	ePdiff	49	04.00	17.1X	CJR	128.31	323	ePKP	52	31.80	3.0X
	1.0s	30.00nm					Z	26s	166.00um				7.6MszX	EDC	128.38	314	iPKP	52	29.80	0.7
			i	48	32.00		N	28s	89.00um					KRA	128.47	328	ePKP	52	27.70	-1.2
			i	52	06.10		E	28s	269.00um						1.8s	227.00nm				
			ePP	53	20.00					ePP	53	52.00		Z	18s	98.50um				7.5Msz
			esPP	53	56.00					eSKS	59	16.00					e	52	31.40	
			epPPP	56	20.00					eSPP	05	08.00					e	52	39.90	
			eSKS	58	52.00					e	10	44.00					e	52	48.40	
			eS	01	12.00		KSR	122.48	231	iPKPc	52	20.70	2.3				e	54	35.00	
			ePKKP	02	34.00			0.9s	16.15nm								e	01	47.00	
			ePS	02	52.00		MTD	122.89	243	iPKPd	52	21.00	1.8	KRA	128.47	328	ePdiff	49	24.40	10.8X
BKR	116.66	312	ePdiff	48	26.00	4.5X				ipPKP	52	33.00		MUD	128.54	340	iPKP	52	36.20	7.4X
Z	24s	134.00um				7.5MszX				iPKKP	02	25.00			1.0s	72.00nm				
			iPP	53	10.00		SUR	122.92	221	e(PKP)	52	29.20	10.2X	HLW	128.72	300	ePKP	52	30.00	0.0
GDH	116.88	13	ePdiff	48	26.00	4.4X		1.2s	140.63nm								eS	54	42.00	
OBN	117.15	328	ePdiff	48	24.00	0.9	Z	18s	88.83um				7.5Msz	SPC	128.82	327	ePKP	52	30.40	0.5
	1.7s	130.00nm					UPP	123.03	339	iPKP	52	17.80	-0.3				i	52	42.40	
Z	20s	147.00um				7.6Msz				i	54	03.00					iPP	54	43.00	
N	20s	105.00um								i	05	13.70		DRA	128.92	321	ePKP	52	33.00	3.0X
E	20s	126.00um					PAL	123.15	47	Pdiff	48	56.00	5.8X	JOS	129.07	327	ePKP	52	30.00	-0.1
			ePPP	55	48.00		SLA	123.42	128	e(PKP)	52	22.00	1.8	UAV	129.08	87	ePKP	52	35.00	3.6X
			iSKS	59	00.00		BUL	123.96	238	iPKPd	52	23.00	1.6	YER	129.23	310	iPKP	52	32.20	1.3
			eSS	09	16.00		Z	21s	296.06um				7.9Msz	IZM	129.54	312	ePKP	52	32.00	0.6
BHD	117.20	302	ePKPd	52	08.00	0.2	N	21s	146.95um					SDV	129.61	87	e(PKP)	52	30.20	-2.2
			ePP	53	23.00		E	21s	222.22um					SDV	129.61	87	iPKPc	52	34.30	1.9
			e	54	58.00					ipPKP	52	36.00			0.7s	57.10nm				
			e	55	56.00					iPP	54	16.00		EZN	129.67	314	ePKPd	52	31.30	-0.2
			eS	58	35.00					iPKKP	02	17.00		PSZ	129.75	326	e(PKP)	52	32.00	0.4
			e	00	59.00		HFS	124.18	341	(PKP)	52	20.40	0.0	KSP	129.78	331	ePKP	52	28.50	-2.9X
ELF	117.27	46	PKP	52	08.35	0.7		0.7s	39.00nm						1.8s	544.00nm				
LDN	117.39	47	PKP	52	08.35	0.4	NB2	124.24	342	PKP	52	20.60	0.0				i	52	33.00	
MSL	117.83	306	iPKP	52	20.50	11.5X		0.9s	79.10nm								i	54	43.00	
			i	53	27.00		HJA	124.28	127	e(PKP)	52	20.00	-1.7	BRN	130.08	334	ePKP	52	32.00	0.1
			e	00	05.00		AKU	124.38	359	iPKP	52	22.20	1.6	TIM	130.22	323	iPKP	52	32.40	0.0
MSL	117.83	306	ePdiff	48	31.00	4.4X		1.6s	506.67nm					BUD	130.49	326	ePKPd	52	34.00	1.2
SUF	118.05	338	ePKP	52	06.00	-2.5	YJA	124.74	126	e(PKP)	52	25.00	1.8	TOV	130.52	86	ePKP	52	29.50	-4.5X
SUF	118.05	338	ePdiff	48	35.00	8.0X	MGI	124.77	303	ePKP	52	36.00	13.6X	HAM	130.62	337	iPKP	52	44.50	11.6X
PUL	118.05	334	ePKP	52	11.00	2.4	KIS	124.98	321	ePKP	52	21.00	-1.3	SRO	130.67	327	ePKP	52	37.20	4.0X
Z	20s	120.00um				7.5Msz		1.8s	200.00nm								e	53	14.00	
N	20s	80.00um					Z	26s	115.00um				7.4MszX				e	54	46.00	
E	20s	105.00um					E	26s	98.00um					BRG	130.85	332	ePKP	52	26.60	-6.8X
			ePP	53	27.00					ipPKP	52	33.00		Z	20s	115.00um				7.6Msz
			eSKS	59	09.00					iPP	54	10.00					i	52	35.30	
			e	09	40.00					iSKS	59	34.00					i	52	44.60	
SOC	118.98	314	ePdiff	48	32.00	0.4	JER	125.09	302	ePKP	52	35.50	12.4X				e	53	01.00	
BLA	119.10	53	ePKP	52	20.80	9.4X	LPB	125.19	118	ePKP	52	25.00	0.9				iSKP	55	58.50	
			PP	53	35.00					SKS	59	32.00					iPKS	56	10.00	
VCA	119.25	131	e(PKP)	52	15.00	2.9X	LPB	125.19	118	Pdiff+	49	06.00	5.5X	CLL	130.96	333	ePKP	52	26.00	-7.6X
NUR	119.96	337	iPKP	52	14.00	1.8	KDE	125.52	314	ePKP	52	30.00	6 4X	CLL	130.96	333	iPKP	52	35.30	1.7
	1.0s	68.00nm					BOG	125.69	91	ePdiff	49	06.00	3.3X				eSKP	55	58.00	
ANT	120.04	125	ePdiff	48	41.00	4.3X				ePP	52	25.50		ZST	131.08	328	ePKP	52	33.00	-1.0
TCA	120.40	135	e(PKP)	52	09.00	-5.1X	IAS	125.70	322	ePKP	52	25.00	1.3				i	52	37.00	

07d 21h

			ePP	54	44.00					e	55	10.50		BNG	141.85	264	ePKPc	52	48.00	-7.1X
			e	01	09.50		BUH	134.99	334	ePKPd	52	40.40	-1.1		1.0s	17.50nm				
			eS	16	00.00		GWF	135.01	335	ePKP	52	41.50	0.0	BAO	142.01	132	iPKPc	52	48.00	-7.4X
ITB7	131.43	137	e(PKP)	52	40.70	5.3X	DMU	135.06	349	ePKP	52	34.80	-6.5X	MLS	142.56	335	ePKP	52	53.90	-1.6
VKA	131.44	329	ePKP	52	35.80	1.1		1.2s	280.00nm					ISSF	143.26	337	ePKP	52	55.10	-1.7
			i	52	52.00		LCI	135.13	319	ePKP	52	51.00	9.1X	LGR	144.39	338	iPKP	53	00.00	1.4
			i	53	42.20					ePP	55	24.50					iPKKP	53	10.00	
			e	54	04.60		CTI	135.30	329	ePKP	52	48.00	5.8X				iPP	56	27.50	
			iPP	55	00.30					ePP	55	24.00		SET	145.48	323	ePKP	53	00.00	-0.8
			i	55	38.80		DOU	135.31	338	PKP	52	37.40	-4.5X	ABA	146.41	326	ePKP	53	01.00	-1.2
			i	56	02.40					e	52	46.40		ALI	147.00	332	iPKP-	53	01.00	-2.0
VAY	131.61	318	ePKP	52	34.30	-0.9				e	55	13.50		TOL	147.21	338	iPKP+	53	05.00	1.6
SKO	132.04	319	iPKP	52	37.00	1.0				e	56	26.00					iPKKP	53	17.50	
	1.8s	1200.00nm								e	06	24.00					i	53	45.00	
			i	52	46.40		BRT	135.32	320	ePKP	52	48.00	5.8X				i	55	35.00	
			i	56	04.00					ePP	55	26.00					i	56	26.00	
			i	12	04.00		DDK	135.45	349	ePKP	52	39.00	-3.1X				iPP	56	41.00	
MOX	132.05	334	ePKP	52	33.00	-2.8X		1.0s	145.00nm								i	57	15.00	
	2.0s	529.00nm					DLE	135.58	349	ePKP	52	39.00	-3.3X				iSKS	00	46.00	
			i	52	38.00			1.2s	280.00nm								i	02	08.00	
			i	52	47.50		CDF	135.59	335	ePKP	52	35.90	-6.8X				eSKKS	03	19.00	
			i	53	10.00			1.4s	156.80nm								iPS	07	12.00	
			iPP	54	58.00		ECH	135.80	334	ePKP	52	43.00	0.0				i	08	37.00	
			iPKS	56	10.00		FOG	136.03	322	iPKPd	52	52.00	8.4X				iSS	15	37.00	
			e	57	00.00		BAF	136.16	334	ePKP	52	43.00	-0.8				iSSS	21	06.00	
			eSS	12	50.00		SAL	136.17	329	ePKP	52	50.00	6.3X	PTO	147.52	345	ePKP	53	05.40	1.7
HOF	132.17	333	iPKPc	52	38.60	2.6X	BSF	136.25	334	ePKP	52	37.50	-6.5X	MTE	147.90	343	ePKPc	53	07.60	3.1X
KHC	132.23	331	ePKP	52	25.50	-10.7X	ORI	136.26	319	ePKP	52	46.00	2.0	COI	148.34	344	ePKP	53	10.00	4.9X
	1.5s	437.00nm								iPP	55	35.50		PRL	148.85	342	ePKPc	53	12.00	5.9X
	N 25s	59.60um					HAU	136.30	335	ePKP	52	37.80	-6.1X	ALM	149.13	333	iPKPd	53	10.60	4.1X
	E 24s	53.50um						1.3s	173.20nm						1.8s	11.20nm				
			e	52	38.00		DUI	136.57	322	ePKP	52	51.50	6.9X		N 43s	2.00um				
			e	52	47.00					ePP	00	00.00			E 41s	5.00um				
			e	55	06.00		SGO	136.70	321	ePKP	52	53.50	8.7X				i	56	09.80	
ATH	132.28	313	ePKP	52	40.00	3.4X				iPP	55	33.00					i	03	19.20	
WIT	132.34	339	e(PKP)	52	39.50	3.3X	SGG	136.78	322	ePKP	52	44.50	-0.6	CRT	149.34	335	iPKP	53	10.60	3.7X
			e	52	49.00					e	55	34.00		MTH	149.77	344	ePKPc	53	15.00	7.6X
			ePP	55	08.00		POI	136.90	325	ePKP	52	45.00	-0.2	LIS	149.93	344	iPKPd	53	12.30	4.7X
KMR	132.69	330	PKP-	52	39.00	2.0	FIR	137.05	327	ePKP	52	39.00	-6.4X	MAL	150.08	335	iPKP+	53	06.00	-1.9
OHR	132.88	318	iPKP	52	35.50	-2.2	MNS	137.17	324	ePKP	52	43.50	-2.2				iPKKP	53	15.00	
			i	56	05.00		VGI	137.36	330	ePKP	52	47.50	1.5				iPP	57	24.00	
GRF	132.92	333	ePKP	52	38.00	0.6				iPP	55	32.50					iPS	07	02.00	
	Z 22s	155.00um				7.7Msz	ORO	137.39	331	ePKP	52	40.00	-6.2X	ALR	150.14	332	iPKP	53	17.00	9.0X
WTS	132.95	338	ePKP	52	36.50	-0.9	VAL	137.50	352	PKP	52	53.00	7.0X				i	53	24.50	
			e	52	40.00		RMP	137.52	324	ePKP	52	47.00	0.6				i	53	35.00	
			e	52	50.00					i	55	42.00		SFS	151.02	337	iPKPc	53	12.00	2.7X
			e	54	43.50		RDP	137.54	324	ePKP	52	47.50	0.9				i	53	40.00	
			ePP	55	05.00					ePP	55	46.50					i	53	58.00	
ZAG	133.16	326	ePKP	52	36.00	-2.0	VAO	137.60	141	ePKP	52	47.40	0.2				i	55	10.00	
			ePKS	56	00.00					e	52	55.30					iPP	56	24.00	
TTG	133.19	321	ePKP	52	39.00	0.9				e	53	10.70					eSKS	00	10.00	
STJ	133.23	31	ePKP	52	47.50	9.5X	LOR	137.90	336	ePKP	52	41.00	-6.0X				ePS	07	05.00	
CAR	133.38	85	ePdiff	49	40.00	3.4X	LBF	138.09	336	ePKP	52	41.30	-6.1X				eSS	15	15.00	
			iPP	52	38.00		GRC	138.19	337	iPKPc	52	46.60	-0.9				eSSS	20	10.00	
DBN	133.45	339	e(PKP)	52	32.00	-6.3X				i	52	48.70		FAR	151.14	341	ePKP	53	18.50	9.0X
	Z 24s	77.00um				7.3MszX				i	56	26.40		SOB1	151.43	131	ePKP	53	10.10	-0.5
			e	53	20.00		FLN	138.20	341	ePKP	52	42.70	-4.7X				e	53	18.20	
			ePKS	56	00.00		SSF	138.21	336	ePKP	52	41.70	-5.9X	TAM	152.87	301	iPKP	53	11.00	-1.6
BNS	133.64	337	iPKPc	52	43.70	5.0X	LDF	138.23	341	ePKP	52	42.90	-4.6X	ITR	153.52	134	ePKP	53	11.20	-2.4
	1.7s	400.00nm						1.2s	101.10nm								e	53	22.50	
TNS	133.71	335	ePKP	52	41.00	2.0	BPA	138.32	76	ePKP	52	42.00	-6.6X	FUL	157.34	354	ePKP	53	20.00	1.9
			ePP	55	16.00		SMF	138.42	336	ePKP	52	42.20	-5.8X	TEN	161.37	351	PKP	53	31.50	8.9X
LJU	133.80	327	ePKP	52	37.00	-2.2	AVF	138.49	336	ePKP	52	42.00	-6.1X				e	54	10.80	
			i	52	51.10		GRR	138.64	341	ePKP	52	44.00	-4.3X				PP	57	58.70	
			e	53	10.10		SEG	138.69	77	ePKP	52	49.00	-0.2	MBO	174.96	330	iPKPc	53	34.10	2.2
			eS	56	12.20		MDN	138.85	78	ePKP	52	49.00	-0.5		S.D. = 1.4		on 376 of 548 obs.			
FUR	133.99	332	iPKPc	52	42.10	2.5X	MGG	138.90	77	ePKP	52	49.50	-0.1							
	Z 23s	227.00um				7.8MszX	LPF	139.02	341	ePKP	52	44.80	-4.1X		MAR 05, 1984 03h 33m 50.85± 0.05s					
RBL	134.05	328	ePKP	52	44.50	4.7X	CVF	139.15	328	ePKP	52	43.20	-6.2X		8.148 N ± 1.0km 123.775 E ± 1.2km					
CEY	134.06	327	ePKP	52	39.30	-0.5	MZF	139.27	336	ePKP	52	43.10	-6.4X		DEPTH = 646.1 ± 0.6 km					
			i	52	51.90		TCF	139.36	337	ePKP	52	43.80	-5.9X		6.6mb (99 obs.)					
			eS	56	13.20		BMA	139.53	144	ePKP	52	49.40	-1.3		MINDANAO, PHILIPPINE ISLANDS (259)					
SJG	134.16	75	ePKP	52	33.00	-7.7X				e	53	01.20			Felt (II RF) on Mindanao, Leyte					
	1.2s	359.38nm								e	53	44.40			and Panay.					
	Z 18s	27.49um				7.0Msz	FRF	139.56	330	ePKP	52	44.00	-6.1X							
ENN	134.27	338	ePKP	52	40.50	0.6		1.3s	187.70nm					CGP	0.96	71	iPc	35	07.50	-0.4
			e	52	42.50		LSF	139.65	337	ePKP	52	44.00	-6.2X	DAV	2.07	120	iPd-	35	11.50	0.4
			e	52	51.00		LRG	139.78	331	ePKP	52	44.90	-5.5X	PLP	3.22	22	iPd	35	13.00	-2.3
			e	53	08.00		LMR	139.80	330	ePKP	52	44.60	-5.9X	PDP	3.91	335	iPc	35	23.20	3.8X
			ePP	55	10.00		ERC	139.87	319	ePKP	53	03.00	12.2X				iS	35	46.50	
TRI	134.43	327	iPKP	52	41.90	1.5	CDR	139.90	331	ePKPc	52	51.10	0.4	PPR	5.24	288	iPd	35	31.90	3.2X
			i	54	29.00		MFF	139.96	339	ePKP	52	45.10	-5.6X				iS	36	29.60	
			i(PP)	55	16.10		RJF	140.44	337	ePKP	52	45.30	-6.3X	PGP	6.00	333	iPc	35	35.00	0.3
			i(PKS)	56	17.90			1.5s	274.70nm					MNI	6.74	171	iPc	35	41.30	0.4
			i	57	13.10		CAF	140.54	336	ePKP	52	45.10	-6.8X				eS	36	45.00	
UCC	134.82	339	PKP	52	34.50	-6.5X	LFF	141.05	337	ePKP	52	46.20	-6.5X	QCP	6.97	338	iP	35	25.00	-17.9X
			e	52	46.00		LPO	141.09	336	ePKP	52	46.90	-5.9X	MAN	6.99	338	iPd	35	44.00	0.9

05d 03h

KKM	7.79	255	iPd	35	50.30	0.1	NNT	24.05	283	iPc	38	21.80	1.0	KYO	28.90	21	Pd	39	03.00	0.4
BAG	8.79	339	iPc+	36	00.00	0.6	KAG	24.15	14	iPd	38	21.30	-0.2				S	43	11.00	
SZP	9.89	341	iPc	36	09.00	-0.5				e	48	09.00		HJJ	28.92	29	eP	39	02.00	-0.8
BKB	11.65	217	iPd	36	28.60	2.4	KSI	24.17	242	iPd	38	22.00	0.2				eS	43	09.00	
	1.0s	9814.70nm			6.8mb					iS	42	01.50		TYK	29.07	19	P	39	04.30	0.2
AAI	12.56	159	iPc	36	38.20	3.3X	NJ2	24.22	350	Pc	38	23.00	0.9				e	40	40.00	
MKS	13.95	198	iPc	36	49.80	1.5				sP	41	01.50		PMG	29.09	126	iPc+	39	03.80	-0.7
	1.0s	*******nm			7.7mb	X				ScP	44	21.30					eS	43	30.00	
TWG	14.82	350	iPc	36	55.90	-0.6				S	45	01.00		XAN	29.18	334	iPc	39	05.00	-0.1
			eS	37	09.00		KNA	24.25	168	iPd	38	22.00	-0.5	SAI	29.26	16	P	39	05.70	0.1
TWF1	15.30	351	iPc	37	00.10	-1.0	NST	24.29	290	eP	38	25.00	2.1				eS	43	12.00	
TWK	15.36	349	iPc	37	02.40	0.7	GYA	24.41	320	Pc	38	24.00	0.0	HIK	29.32	21	Pd	39	06.40	0.2
ISI	16.10	1	iPd	37	10.10	1.5				sP	41	05.00					S	43	15.10	
			iS	39	48.20					S	42	03.00		CD2	29.37	323	iPc	39	07.60	0.9
TLE	16.36	147	iPc	37	07.10	-4.0X	TBL	24.43	119	iPd	38	25.00	0.9	HMM	29.38	24	Pd	39	07.00	0.3
MYK	16.61	5	eP	37	15.00	1.7	MYZ	24.70	16	eP	38	26.00	-0.3				e	43	15.00	
			eS	39	52.00					eS	42	07.00		SEO	29.43	5	iPd-	39	07.40	0.3
HKC	16.84	328	iP	37	16.30	0.8	FKJ	24.88	10	Pd	38	28.10	0.2		1.0s	2600.00nm			6.8mb	
			iS	39	36.00					S	42	08.90					S	43	22.50	
ANP	17.08	353	iP-	37	16.00	-1.8	NGS	25.11	12	P	38	30.80	0.9	NAG	29.49	22	iPd	39	07.90	0.3
			iS	39	36.00					S	42	13.20					eS	43	18.00	
QIZ	17.32	310	iPc	37	20.80	0.8	PSI	25.32	259	ePc	38	32.70	0.8	LMG	29.61	124	iPd	39	08.00	-1.0
QZH	17.42	344	iPc	37	21.50	0.6	KUM	25.37	14	Pd	38	31.60	-0.5	GIF	29.62	22	Pd	39	08.50	-0.2
			sP	39	25.00					eS	42	07.00		WB7	29.71	160	iPc	39	09.60	0.0
GZH	17.91	327	iPc	37	26.30	0.9	KHT	25.53	287	iPc	38	35.00	1.3	WB3	29.78	160	iPc	39	09.60	-0.6
WSI	18.06	191	ePc	37	25.00	-1.9	MOM	25.64	112	iPc	38	35.50	0.8	SHZ	29.89	25	P	39	10.50	-0.4
			eS	38	20.00		MDG	25.67	121	ePd	38	33.80	-1.1				eS	43	24.00	
KUPT	18.18	181	iPc	37	27.90	0.0	CBI	25.67	41	iP	38	33.20	-1.7	FUK	30.01	20	ePd	39	11.00	-1.0
KUG	18.19	181	iPc	37	27.90	-0.1				S	41	24.40					eS	43	25.00	
			e	40	26.70		SAG	25.70	13	eP	38	35.00	0.0	OSH	30.12	26	Pd	39	11.20	-1.7
			e	44	04.20		BDT	25.77	293	iPc	38	35.50	-0.3				iS	43	27.70	
			e	47	41.20			0.8s	122.00nm				5.6mb X	IID	30.12	23	ePd	39	12.00	-1.0
KMJ	18.32	9	iPd	37	30.30	1.2	ASZ	25.91	18	Pd	38	37.20	0.4				S	43	25.00	
			S	40	23.20					iS	42	24.60		MIS	30.22	25	eP	39	13.00	-0.8
NAH	18.35	11	iPd	37	30.60	1.2	OIT	26.00	15	ePd	38	37.00	-0.6				e	43	27.00	
			S	40	14.60					eS	42	03.00		AJI	30.24	26	Pd	39	12.70	-1.2
NGO	18.78	12	iPd	37	34.90	1.6	FKK	26.03	13	Pd	38	37.50	-0.4				S	43	27.90	
			S	40	22.20					eS	42	07.00		KOF	30.55	24	eP	39	15.00	-1.5
MVI	18.96	21	iPd	37	35.20	0.2	KMI	26.22	313	iPc+	38	41.00	1.0				eS	43	36.00	
			S	40	32.50		E	12s	80.70um					DL2	30.68	357	iPd	39	18.00	0.4
TRT	19.27	215	iPc	37	38.70	0.8				iS	41	35.00					PcP	41	56.00	
			iS	38	18.00		CHG	26.33	296	iPc+	38	41.80	1.1				S	43	36.00	
SJI	19.80	217	ePd	37	42.90	0.1		0.6s	150.00nm			5.8mb					iScS	48	40.00	
NZJ	20.83	14	P	37	52.50	0.5				eS	42	46.00		SRY	30.79	25	iPd	39	16.40	-2.2
			S	40	40.50		CHTO	26.33	296	iPc	38	41.80	1.1	YOK	30.81	26	P	39	16.70	-2.0
KGM	21.26	254	iPc	37	56.70	0.8	IZU	26.42	10	P	38	42.00	0.7				eS	43	37.00	
	0.7s	123.40nm			5.5mb	X				e	42	32.00		KYS	30.82	27	iPd	39	15.20	-3.6X
			i	38	43.00		SHN	26.52	13	Pd	38	41.50	-0.6	RAB	30.86	112	iPc+	39	20.70	1.3
			i	44	09.00					eS	42	30.00		TOK	31.07	26	P	39	19.00	-1.8
GUMO	21.40	74	iPd	37	56.60	-0.6	MRT	26.77	20	Pd	38	44.40	0.1				S	43	37.00	
PJG	21.40	74	iPd	37	56.50	-0.7				e	42	37.00		DDR	31.09	25	iPd	39	19.30	-1.9
			i	58	13.00		KOC	26.84	18	iPd	38	45.60	0.6	MAT	31.17	23	iPd-	39	20.50	-1.3
GUA	21.43	74	ePd	37	56.60	-0.9				i	42	37.30			1.6s	3033.33nm			6.7mb	
	0.9s	2789.92nm			6.7mb		MTY	26.88	17	eP	38	45.00	-0.3				eS	43	35.00	
			i	40	32.00		HIR	27.28	16	P	38	48.50	-0.2	TIY	31.17	342	iPc	39	22.50	0.6
TZZ	21.92	127	iPc	38	02.50	0.5				S	42	41.00					pP	40	57.00	
MTN	22.10	161	iPc	38	02.00	-1.5	LAT	27.43	122	iPc	38	50.50	0.2	NGN	31.27	23	P	39	22.50	-0.1
TNG	22.23	231	iPc	38	03.30	-1.4	SHK	27.51	16	iPd	38	50.10	-0.6				e	43	46.60	
KLM	22.58	258	iP	38	09.00	1.2				eS	42	46.60		WAJ	31.45	20	Pd	39	24.20	0.2
	0.6s	212.40nm			5.9mb		SHJ	27.51	22	Pd	38	50.80	0.1				S	43	44.00	
			iS	41	04.40					S	42	47.20		CHO	31.58	27	eP	39	23.00	-2.1
PCT	22.85	289	iPc	38	11.80	1.6	TKS	27.65	20	Pd	38	52.30	0.4				e	43	44.00	
			e	41	34.10					eS	42	52.00		TSK	31.66	26	iPd	39	22.60	-3.3X
			e	44	14.00		TKM	27.71	19	eP	38	52.00	-0.5	TKD	31.68	22	eP	39	25.00	-1.0
			e	59	49.00					eS	42	49.00					eS	43	50.00	
KLI	22.87	236	ePc	38	09.80	-0.6	WKY	27.99	20	iPd	38	55.20	0.3	UTS	31.84	25	eP	39	25.00	-2.4
			eS	41	28.80					S	42	58.00					S	43	49.00	
IPM	22.88	262	ePc	38	10.80	0.3	OKA	28.00	18	iPd	38	55.00	0.0	MIT	31.96	26	eP	39	26.00	-2.3
			i	38	31.80					eS	42	55.00					eS	48	44.00	
			e	39	10.40		HIM	28.40	19	Pd	38	58.40	0.1	ALOA	32.20	124	iPc	39	31.50	0.9
			i	39	39.80					eS	43	01.00		BJI	32.48	349	iPd-	39	33.30	0.7
			e	40	23.80		KOB	28.42	20	eP	38	59.00	0.5		2.7s	373.00nm			5.5mb	X
			iS	41	35.30					e	42	04.00					pP	41	09.00	
			i	44	12.30		MTS	28.48	16	iPd	38	59.20	0.2				sP	42	24.00	
SSE	22.96	354	iPd-	38	11.50	0.5				S	43	06.20					S	44	02.00	
	9.0s	17.00nm			3.6mb	X	OSK	28.52	21	P	38	59.50	0.1				ScS	48	48.50	
E	11s	49.00um								eS	43	01.00		AIK	32.49	22	eP	39	32.00	-0.8
			sP	40	49.00		OSA	28.53	21	P	38	59.90	0.5				eS	44	03.00	
			iS	41	27.00					S	43	02.90		ISQ	32.61	152	iPc	39	33.70	-0.3
			ScS	48	26.00		TIA	28.59	349	Pd	39	00.20	0.2	FKS	33.13	25	eP	39	38.00	-0.1
SNG	22.97	269	iP	38	12.00	0.7				PcP	41	51.10					eS	44	14.00	
	1.4s	5116.28nm			6.9mb					PcS	45	33.20		ASPA	33.13	163	iPc	39	38.80	0.4
			iS	41	38.00					S	46	03.00		LZH	33.23	330	iPc+	39	41.00	1.8
TAJ	23.46	16	iPd	38	15.90	0.5				ScS	48	25.80			6.0s	*******nm			7.1mb	X
			S	41	48.00		WITU	28.65	116	ePc	39	01.00	0.3				ipP	41	19.50	
WHN	23.96	340	iPc	38	21.50	1.7	TOT	28.85	18	eP	39	02.00	-0.2				PcP	42	07.00	
			sP	40	59.00					eS	43	03.00					isP	42	29.00	

05d 03h

			iS	44	11.00		YSS	41.98	19	iPd	40	49.00	-0.6				eScS	50	50.00				
			iScS	48	50.00			0.9s	2260.00nm			6.6mb		KSH	52.84	314	iPd	42	13.00	2.0			
YAM	33.50	24	iPd	39	41.70	0.5				ePcP	42	28.00					iS	48	57.00				
			S	44	21.50					iS	46	20.00		PET	52.92	26	iPd	42	10.00	-1.2			
SNY	33.54	360	iPd	39	41.90	0.4				eScS	49	34.00			1.0s	4800.00nm				6.8mb			
			pP	41	21.50		KUR	42.42	25	iPd	40	53.00	-0.1		Z 16s	16.00um				6.2MszX			
			iS	44	14.00			4.0s	********	nm		7.1mb	X		N 16s	11.00um							
			ScS	48	52.60					ePcP	42	32.50			E 16s	8.50um							
SEN	33.73	25	Pd	39	43.50	0.4				iS	46	29.00					ePcP	43	06.00				
			S	44	21.50		RKG	42.47	188	iPc	40	57.70	4.1X				iS	48	50.00				
ISN	34.04	25	Pd	39	45.50	-0.1	STK	43.29	158	iPc	41	00.10	0.1				eScS	50	42.00				
			eS	44	25.00		UGL	43.61	17	eP	41	02.00	-0.2				esS	52	28.00				
WBN	34.19	176	iPc	39	48.00	1.0		1.4s	34.00nm			4.6mb	X	TLG	53.49	319	iP	42	16.50	1.0			
HHC	34.33	343	iPc	39	49.40	1.2	CMS	44.70	153	iPc	41	11.50	0.6				ipP	44	15.00	651kmX			
BGA	34.39	113	eP	39	48.00	-1.0	HYB	44.96	286	iPc	41	13.00	-0.1				iS	49	02.00				
			eS	44	36.00			0.8s	1046.20nm			6.3mb		NRN	53.62	316	iPc	42	17.00	0.3			
BTO	34.56	341	iPd	39	50.50	0.4				e	42	38.50					eS	49	04.00				
			S	44	36.00					e	44	11.00		AAA	53.78	319	iPd	42	18.50	1.0			
AKI	34.67	22	eP	39	52.00	1.2				iS	47	06.00					iPcP	43	14.50				
			eS	44	41.00		BRS	45.13	143	iPc	41	14.10	-0.1				epP	44	22.00	692kmX			
PAA	34.73	113	iPd	39	51.30	-0.4				e	41	48.00					iS	49	08.00				
			ePP	41	30.00					e	42	36.00					iScS	50	52.00				
			e	41	39.00					e	43	00.00					isS	52	44.20				
			eS	44	42.00					e	44	22.00		YAK	53.94	3	iPc	42	18.90	0.7			
OFU	34.75	25	iPd	39	51.90	0.5				e	45	30.00			0.8s	4400.00nm				6.8mb			
			S	44	36.50		ADE	45.14	163	iPc	41	14.60	0.3				iS	48	59.90				
MEK	34.92	188	eP	39	53.00	0.0	GBA	45.77	281	P	41	19.70	0.4				isS	52	41.90				
MRK	35.06	24	P	39	54.60	0.6	IRK	46.79	344	iPd	41	26.00	-0.5	ELT	54.23	333	iPd	42	19.10	-1.2			
			S	44	44.10			2.0s	3530.00nm			6.5mb					iS	49	09.00				
MIY	35.34	25	P	39	56.40	0.1		Z 16s	34.10um			6.4MszX		FRU	55.13	317	iPd	42	27.00	0.1			
			S	44	46.10			N 16s	14.20um						1.6s	3600.00nm				6.4mb			
CN2	35.54	2	iPd	39	57.50	-0.4		E 18s	22.20um						Z 21s	23.00um				6.2Msz			
			pP	41	38.00	570kmX				iPcP	42	44.00			N 18s	20.00um							
			sP	42	48.00					eS	47	30.00			E 21s	25.00um							
			ScP	44	59.50					eScS	50	10.00					ePcP	43	20.00				
			ScS	49	00.00					esS	51	00.00					epP	44	28.00	661kmX			
VLA	35.56	10	iPd	40	00.00	2.0				eSS	51	11.00					iS	49	20.00				
			iS	44	54.00		COO	47.01	146	iPc	41	29.20	0.7	TAU	55.16	159	iPc	42	27.20	0.3			
CTA	35.73	142	iPc+	40	00.70	1.0	MOY	47.28	341	eP	41	31.00	0.9				i	42	32.00				
			iS	44	34.00			1.0s	2250.00nm			6.6mb					PP	44	24.00				
AOM	35.88	22	P	40	01.70	1.0				eS	47	41.20					ScP	46	23.60				
			S	44	57.20		WMQ	47.44	325	iPc	41	31.50	-0.2				S	49	24.00				
HAC	35.92	23	eP	40	01.00	0.0				sP	43	29.00					ScS	51	12.00				
			eS	44	53.00		YOU	48.21	152	iPc	41	37.60	0.3				SS	53	12.00				
MDJ	36.68	7	iPd	40	07.80	0.6				e	03	45.80		KHO	55.42	310	iPd	42	29.10	0.0			
			pP	41	49.00	571kmX				e	12	04.20					ePcP	43	17.60				
			PcP	42	19.00		NDI	48.29	301	ePc	41	37.00	-1.1				epP	44	32.20	677kmX			
			sP	42	56.00					eS	47	48.00					esP	45	40.60				
			ScP	45	09.50		BFD	48.39	160	iPc	41	38.20	-0.4				iS	49	22.20				
			S	46	04.00		KOU	48.99	126	iPc	41	42.60	-0.6	SEM	55.42	328	iPc	42	27.90	-0.8			
HAK	36.74	21	iPd	40	08.60	0.8				iS	48	03.20			8.6s	********	nm			6.3mb	X		
			e	45	08.00		RIV	49.17	150	iPc	41	45.20	0.9				ePcP	43	18.50				
LSA	37.36	309	iPc	40	14.90	1.4		0.9s	********	nm		7.9mb	X				epP	44	32.10	686kmX			
SUT	37.42	20	iPd	40	14.30	1.0	POO	49.52	287	iPc	41	47.20	0.0				eS	49	15.50				
			e	45	19.80			1.0s	750.00nm			6.0mb		MGD	55.69	16	iPd	42	29.80	-0.5			
URA	37.80	23	Pd	40	18.20	1.9	UER	49.70	336	iPc	41	47.00	-1.0		2.0s	********	nm			7.2mb			
			eS	45	26.00			Z 14s	1.05um			5.0MszX					iPcP	43	19.00				
GTA	37.82	329	iPc	40	18.10	1.3		N 14s	2.01um								ipP	44	32.00	667kmX			
			pP	42	05.10			E 14s	1.06um								iS	49	25.00				
			iS	45	23.00					eS	48	13.20					iScS	51	12.00				
SAP	38.04	21	iPd	40	19.20	1.0	TOO	49.81	157	iPc	41	49.20	0.1	ANR	55.90	314	iPd	42	32.50	0.3			
			S	45	27.80			0.5s	469.00nm			6.1mb			2.0s	6300.00nm				6.5mb			
OBI	38.62	23	iPd	40	24.60	1.6	WAM	50.03	153	iPc	41	51.10	0.4				iPcP	43	18.50				
			S	45	37.70					e	03	43.60					ipP	44	37.00	685kmX			
KLG	38.77	183	iPc	40	23.80	-0.6				e	12	04.60					iS	49	35.00				
RMJ	38.92	21	Pd	40	26.40	1.0	SKR	50.13	26	iPd	41	51.00	-0.3	NVS	56.64	333	iPd	42	50.50	13.7X			
			eS	45	41.00			0.7s	2460.00nm			6.7mb			1.1s	360.00nm							
ASA	39.03	22	Pd	40	26.80	0.5		Z 20s	28.40um			6.3Msz					iS	49	32.80				
			eS	45	41.00			N 18s	18.30um					GAR	56.80	312	iP	42	38.00	-0.4			
BAL	39.12	190	iPc	40	26.50	-0.7		E 24s	12.80um								epP	44	41.50	670kmX			
KUS	39.13	24	Pd	40	27.60	0.5				iPcP	43	02.60		KUL	56.89	310	iPd	42	38.20	-0.8			
			eS	45	43.00					iS	48	12.00					iS	49	44.40				
VSG	39.75	115	eP	40	32.00	-0.5				iScS	50	34.00		QUE	57.35	301	eP	42	42.00	-0.4			
SVO	39.80	115	eP	40	33.00	0.2				iSS	52	00.00					eS	49	49.00				
NEM	39.91	25	Pd	40	33.30	0.0	BOD	50.14	353	iP	41	50.90	-0.3	DSH	57.82	311	iPd	42	45.00	-0.3			
			S	45	53.30			0.8s	1800.00nm			6.5mb					epP	44	50.00	675kmX			
KLB	39.93	188	iPc	40	33.20	-0.4	PVC	50.96	121	iPc	41	56.80	-0.8				iS	49	51.00				
ABJ	39.96	23	eP	40	33.00	-0.7				iS	48	28.00		TAS	58.27	314	iPd	42	49.00	0.8			
			eS	45	54.00		NOU	51.62	127	iPc	42	02.30	-0.1		1.8s	********	nm			7.0mb			
HNR	40.04	115	eP	40	34.00	-0.7				iS	48	38.00			Z 23s	50.00um				6.6MszX			
WAK	40.22	20	eP	40	37.00	1.2	PRZ	52.47	318	iPc	42	09.70	1.3		N 23s	19.00um							
			eS	45	59.00			2.0s	********	nm		7.2mb					epP	44	54.00	672kmX			
MUN	40.55	190	iPc	40	37.80	-0.7		Z 15s	26.00um			6.4MszX					iS	50	02.00				
PKI	41.07	303	iPc	40	43.20	0.1		N 15s	20.70um					SEY	58.46	15	iPd	42	49.10	0.1			
KKN	41.25	303	iPc	40	49.80	5.3X				ePcP	43	07.00			1.1s	2070.00nm				6.3mb			
NWAO	41.32	188	iPc	40	44.70	0.2				epP	44	09.00	665kmX				iPcP	43	33.10				
DMN	41.33	303	iPc	40	45.70	0.6				eS	48	50.00					iS	50	00.60				

iScS 51 31.00
NDF 58.92 116 iPc 42 54.50 1.8
eS 44 52.60
SAM 59.46 311 iPd 42 55.90 -0.2
3.9s *******nm 7.0mb X
iPcP 43 36.70
ipP 45 02.00 673kmX
iS 50 23.10
VDW 59.66 116 eP 42 58.00 0.3
NMS 59.68 116 eP 43 04.00 6.2X
BOA 59.76 117 eP 42 58.50 0.2
VUN 59.91 116 ePd 42 59.80 0.5
1.4s 55.00nm 4.6mb X
SVA 59.95 116 eP 42 59.20 -0.3
OVA 60.09 116 eP 43 00.50 0.1
SMY 60.26 33 ePd 43 01.00 0.1
KRO 60.50 115 eP 43 03.40 0.2
TIK 63.50 2 ePd 43 20.00 -1.5
0.9s 1840.00nm 6.4mb
ePP 45 53.50
eS 51 01.50
eSP 51 25.00
eScS 52 06.00
MHI 64.53 306 iPd- 43 28.90 0.2
0.8s 2346.27nm 6.6mb
e 45 36.00
eSn 51 20.00
ADK 65.07 36 iPd 43 30.10 -1.5
NRI 65.40 347 iPd 43 31.70 -1.6
6.0s *******nm 6.8mb X
Z 16s 27.60um 6.6MszX
N 18s 10.50um
E 18s 27.90um
epP 45 41.00 666kmX
eScS 52 26.00
ASH 65.69 308 iPc 43 37.00 1.3
2.0s 6800.00nm 6.7mb
epP 45 44.65 653kmX
ePP 46 08.00
esP 46 59.00
iS 51 35.00
eSP 51 52.50
eScS 52 29.00
VAN 65.88 308 iPd 43 37.10 0.2
Z 20s 24.30um 6.4Msz
N 20s 28.50um
E 20s 24.40um
epP 45 46.00 661kmX
ePP 46 10.00
eS 51 38.00
eScS 52 26.00
MSZ 65.90 147 P 43 37.00 0.3
PP 45 46.00
S 51 39.00
ScS 52 47.00
SS 57 05.00
KRP 66.52 137 Pc 43 42.10 1.4
i 51 48.50
e 11 16.00
e 12 03.00
e 12 16.90
NUK 66.59 117 iPc 43 39.30 -2.1
RAO 67.29 126 P 43 45.30 -0.2
S 45 59.20
KAT 67.49 309 iPd 43 48.50 1.9
epP 45 57.00 652kmX
eS 51 54.50
TCW 67.50 141 P 43 45.30 -1.3
AFI 67.60 109 P 43 48.00 0.3
eS 46 00.00
SNZO 67.82 141 eP 43 48.00 -0.5
WEL 67.85 141 P 43 48.00 -0.7
Z 20s 73.76um 6.9Msz
N 21s 30.11um
E 20s 39.72um
PP 45 48.00
S 51 56.00
ScS 52 46.00
SS 56 22.00
SVE 68.68 328 iPd 43 53.00 -0.4
ipP 46 09.00 700kmX
iS 52 04.00
MCQ 69.04 159 iPc 43 56.40 0.9
ARU 69.63 327 iPd 43 58.00 -1.0
Z 17s 19.50um 6.4MszX
E 17s 18.00um
eSP 52 47.00

eSPP 53 13.00
SHI 69.74 299 eP 43 59.00 -1.4
NKI 69.96 36 P 44 00.70 -0.3
ILT 70.64 20 iP 44 04.70 0.0
1.2s 7800.00nm 7.1mb
iPP 46 55.00
NUE 70.69 113 P 44 07.10 1.3
TEH 71.00 305 eP 44 07.00 -0.6
CBZ 71.75 153 eP 44 12.50 1.2
PP 46 30.00
BAK 72.49 310 iPc 44 18.00 2.2
PCR 72.99 245 eP- 44 20.00 0.7
KER 74.46 303 iP 44 26.50 -0.7
e 53 09.00
TAB 75.15 307 iPd- 44 32.00 1.1
GRS 75.18 309 iPd 44 31.80 0.7
1.6s 3020.00nm 6.6mb
iPcP 44 44.20
ipP 46 48.00 675kmX
iPPP 49 22.00
iS 53 21.00
iSKS 53 30.00
iScS 53 44.20
KRV 75.22 310 iPd 44 32.00 1.0
epP 46 48.00 673kmX
iS 53 20.00
SDN 75.23 35 P 44 30.50 -0.2
DRV 75.55 173 iP 44 31.60 -0.6
KIP 76.14 70 P 44 38.00 1.7
HON 76.15 70 P 44 38.00 1.6
MTA 76.40 311 iPd 44 38.00 0.6
ipP 46 53.00 663kmX
eS 53 33.00
ERE 76.61 309 iPd 44 39.00 0.3
ipP 46 58.00 689kmX
iS 53 35.00
BHD 76.73 302 iPc 44 40.00 0.6
iPP 46 13.00
ePPP 46 39.00
ePcP 46 45.00
eS 50 37.00
iSS 53 33.00
iSSS 54 06.00
eLQ 57 43.00
LEN 77.11 310 iPd 44 44.00 2.5
1.4s 3600.00nm 6.7mb
ipP 47 00.00 667kmX
iS 53 46.00
BKR 77.36 311 iPd 44 44.00 1.2
ipP 46 58.00 653kmX
isP 48 06.00
iS 53 40.00
MSL 77.69 305 iPc 44 43.00 -1.4
i 44 52.00
iPcP 46 11.50
iPP 46 58.00
iS 53 43.00
iPS 54 03.10
i 54 37.00
PYA 77.72 313 iPd 44 44.50 0.0
1.0s 3200.00nm 6.8mb
ePPP 49 52.00
iS 53 43.00
iSP 54 32.00
MIR 77.80 192 iPd 44 44.00 -0.3
1.5s 2800.00nm 6.6mb
iS 53 43.00
eSP 54 30.00
KHE 78.13 351 iPd 44 47.00 1.0
1.8s *******nm 7.1mb
epP 47 02.00 658kmX
iPP 47 53.00
iS 53 49.00
iSP 54 35.00
TTA 78.33 27 ePd 44 48.30 0.9
SVW 78.37 29 P 44 49.10 1.5
BRW 78.95 19 iPd 44 51.50 1.2
IMA 79.58 24 P 44 55.30 1.4
KDC 79.82 33 P 44 56.70 1.7
RDT 79.92 30 P 44 55.10 -0.5
SOC 80.14 313 iPd 44 56.50 -0.6
ipP 47 14 00 668kmX
ePPP 50 10.00
iS 54 08.00
SLV 80.31 31 P 44 57.50 -0.1
SKT 80.37 28 P 44 57.40 -0.5
MOS 81.16 325 iPd 45 02.00 0.1

5.0s *******nm 7.2mb X
ipP 47 18.00 656kmX
iPP 48 16.00
iS 54 16.00
iSP 55 08.00
PMR 81.51 29 P 45 03.50 -0.1
PME 81.56 29 iPd 45 03.60 -0.2
1.0s 3250.00nm 6.8mb
OBN 81.76 325 iPd 45 04.50 -0.5
2.0s *******nm 7.7mb X
Z 18s 14.50um 6.4Msz
N 23s 7.40um
E 23s 15.00um
esP 48 36.00
iS 54 25.00
eSS 00 08.00
ANN 81.82 314 iPd 45 04.50 -1.0
0.8s 4500.00nm 7.1mb
epP 47 21.50 660kmX
iPP 48 30.00
iS 54 21.00
iSKS 54 24.00
COL 82.02 26 iPd 45 05.90 -0.2
Z 18s 23.71um 6.6Msz
iS 54 24.00
FBA 82.02 26 iPd 45 05.70 -0.4
APA 82.70 337 iPd 45 08.70 -0.8
1.2s 3400.00nm 6.8mb
iS 54 28.00
HIN 82.84 30 P 45 11.70 1.3
TOA 82.89 28 P 45 11.70 1.1
KVT 83.00 310 iPd 45 12.30 0.7
AAE 83.86 278 eP 45 18.00 1.4
HRI 83.95 303 iP 45 17.50 1.0
GLB 84.06 29 P 45 16.80 0.4
SIM 84.07 314 iPd 45 16.00 -0.7
iPPP 50 44.00
iSKS 54 36.00
iSP 55 48.00
ADI 84.40 303 iP 45 19.50 0.9
JER 84.57 301 iPd 45 21.50 2.0
ZNT 84.66 302 iP 45 21.00 1.2
KEV 84.76 340 iPd- 45 18.80 -0.7
0.5s 926.30nm 6.7mb
i 45 22.40
epP 47 32.00 629kmX
esP 48 36.00
esPP 51 52.00
eS 54 40.00
PUL 84.77 330 iPd 45 20.00 0.3
2.0s *******nm 7.2mb
ipP 47 40.00 672kmX
NOH 84.88 300 iP 45 23.00 2.0
SOD 85.29 337 iPd 45 21.30 -0.8
iPKKP 03 21.20
CTGM 85.31 29 P 45 23.60 1.0
KJF 85.36 334 iPd- 45 21.90 -0.6
epP 47 38.00 646kmX
esP 48 40.00
esPP 51 52.00
iSKS 54 43.50
eS 55 00.00
PCA 85.97 30 iPd 45 26.20 0.6
KBS 86.17 350 iPd 45 25.50 -0.7
SUF 86.31 333 iP 45 26.30 -0.8
KDE 86.45 311 iP 45 26.10 -2.1
MAW 86.88 200 eP 45 29.00 -0.6
1.1s 225.00nm 5.8mb
epP 45 35.00 19kmX
eS 47 45.00
MNK 87.13 324 iPd 45 30.00 -1.1
iS 55 06.00
iSP 56 16.00
INK 87.16 21 iPd 45 30.80 -0.2
pP 46 28.00 235kmX
GPA 87.43 310 iPd 45 31.50 -1.4
KIS 87.44 317 iPd 45 32.00 -0.7
1.5s 4100.00nm 6.9mb
iS 55 16.00
iSP 56 26.00
NUR 87.44 331 iPd- 45 32.00 -0.4
1.1s 1175.60nm 6.5mb
epP 47 44.00 616kmX
esP 48 48.00
esPP 52 12.00
iSKS 54 56.50
eS 55 16.00

05d 03h

Sta	Dist	Az	Phase	Time	Res
BCK	87.62	307	iP	45 31.10	-2.8
HLW	88.10	300	iPd	45 35.00	-1.1
CFR	88.23	315	iPc	45 36.00	-0.4
ISK	88.25	311	iPc	45 35.80	-0.8
ELL	88.27	307	iPd	45 36.00	-0.9
MBC	88.30	12	iPc	46 36.50	60.3X
BIR	88.40	316	eP	45 38.00	0.8
TLB	88.41	315	iPd	45 37.00	-0.2
PPE	88.42	316	iPc	45 37.00	-0.3
PSN	88.46	314	iPd	45 38.00	0.6
CTT	88.70	311	eP	45 37.50	-1.2
DST	88.81	310	iPd	45 38.10	-1.2
AFR	89.06	108	iP	45 43.90	3.2X
	1.0s	335.00nm			6.1mb
SBA	89.09	172	eP	45 41.70	2.0
			S	55 09.20	
SIT	89.10	32	iPd	45 41.00	0.9
PPT	89.26	108	iP	45 44.70	3.1X
	1.0s	120.00nm			5.7mb
EDC	89.26	311	iPc	45 40.30	-1.0
PAE	89.27	108	iP	45 44.60	3.0X
	1.0s	110.00nm			5.7mb
ISR	89.35	315	iPd	45 42.00	0.3
PPN	89.39	108	iP	45 45.10	2.9X
	1.0s	95.00nm			5.6mb
ALE	89.43	1	ePd	45 41.00	-0.3
	0.5s	173.00nm			6.2mb
CVO	89.48	316	iPd	45 42.00	-0.2
TVO	89.59	108	iP	45 46.20	3.0X
	1.0s	290.00nm			6.1mb
MFT	89.62	311	iP	45 42.50	-0.5
MLR	89.70	316	iPd	45 43.00	-0.4
JMB	89.83	313	iPc	45 43.00	-0.8
BUC1	89.87	315	iPd	45 43.00	-0.9
CGN	89.92	315	ePd	45 44.00	-0.2
LVV	90.07	320	iPd	45 44.70	-0.1
			iS	55 40.70	
			iSP	57 00.00	
			iSS	02 04.70	
TBI	90.24	113	iP	45 50.70	4.7X
	0.8s	60.00nm			5.6mb X
MSR	90.36	317	ePd	45 43.00	-3.3X
CMP	90.37	316	ePd	45 45.00	-1.3
PMO	90.48	105	iP	45 50.20	3.0X
	1.0s	150.00nm			5.9mb
EZN	90.52	310	iPc	45 45.80	-1.2
DIM	90.64	312	iP	45 48.00	0.5
PRK	90.67	310	iPd	45 46.90	-0.8
PVL	90.71	314	iPd	45 47.00	-0.9
TPT	90.74	105	iP	45 51.40	3.0X
	1.0s	95.00nm			5.7mb
VAH	90.76	105	iP	45 51.30	2.8
	1.0s	85.00nm			5.6mb
KDZ	90.89	312	iPd	45 50.00	1.3
BMR	90.89	318	ePc	45 50.00	1.4
RUV	90.99	105	iP	45 52.40	2.8
	1.0s	80.00nm			5.6mb
UPP	91.00	331	iPd	45 47.50	-1.3
	1.3s	4200.00nm			7.2mb
			iS	55 16.00	
			iScS	55 46.50	
DRA	91.04	315	eP	45 49.00	-0.3
CJR	91.04	317	iP	45 50.10	0.7
PLD	91.27	313	iPd	45 51.00	0.6
WAR	91.34	323	eP-	45 55.00	4.5X
			e	48 15.00	
			e	49 08.00	
			e	55 55.00	
			e	57 08.00	
			e	58 12.00	
UZH	91.45	319	iPc	45 52.00	0.9
Z	17s	18.00um			6.6MszX
N	17s	8.00um			
E	17s	15.00um			
			epP	48 12.00	658kmX
			ePP	49 48.00	
			iS	55 54.00	
			iSP	57 14.00	
NPS	91.95	306	iPd	45 53.20	-0.6
MMB	92.09	312	iPd	45 53.00	-1.3
VTS	92.25	313	iPd	45 54.00	-0.9
			eS	48 22.00	
			eSg	49 42.00	
DAG	92.52	352	iPd	45 54.20	-1.4
	0.6s	20.00nm			5.4mb X
			i	56 02.00	
KRA	92.58	321	iPd	45 55.90	-0.4
	1.5s	2683.00nm			7.1mb
Z	24s	39.20um			6.8MszX
N	24s	25.40um			
E	24s	40.00um			
			i	45 58.40	
			i	45 59.40	
			i	46 02.40	
			i	46 03.90	
			i	48 13.00	
			iS	56 01.00	
JOS	92.62	320	iPd	45 57.20	0.7
	1.2s	280.00nm			6.2mb
SPC	92.62	320	eP	45 57.60	0.8
	1.6s	1477.00nm			6.8mb
			i	48 22.60	
			i	49 58.90	
			e	55 18.00	
			i	56 42.00	
SSR	92.74	316	iP	45 57.00	-0.2
HFS	92.76	332	eP	45 55.80	-1.2
	1.3s	4722.00nm			7.4mb
TIM	92.88	317	iPd	45 56.70	-1.1
ATH	92.89	309	iPd	45 56.20	-1.8
VAY	93.00	312	iPd	45 57.00	-1.4
PSZ	93.19	319	iPd	45 57.60	-1.7
NB2	93.55	333	P	45 59.10	-1.5
SKO	93.66	313	iPd	46 00.10	-1.4
	1.5s	1900.00nm			7.0mb
			i	46 03.00	
			ePP	48 05.00	
			iPPP	48 56.00	
			iS	53 00.20	
			iSS	56 09.00	
			iSSS	57 38.50	
KZN	93.83	311	iPd	46 00.00	-2.4
BUD	93.87	319	iPd	46 01.70	-0.6
	1.4s	360.00nm			6.3mb
SRO	94.24	319	ePd	46 03.40	-0.5
			e	48 23.40	
			e	50 01.00	
			e	55 03.40	
			e(S)	56 19.40	
			e	01 29.40	
OHR	94.34	312	iP	46 00.20	-4.4X
			i	48 55.10	
MTD	94.40	254	iPd	46 03.00	-2.3
			iPP	48 29.00	
			i	50 01.00	
			i	50 47.00	
			i	03 03.00	
KSP	94.57	323	iPd	46 05.60	0.2
	1.3s	2463.00nm			7.2mb
			i	48 37.00	
			i	50 10.50	
KONO	94.85	332	iP	46 05.50	-1.0
ZST	94.90	320	ePd	46 06.50	-0.4
			e	46 40.00	
			e	50 10.00	
COP	95.05	328	iPd-	46 07.00	-0.4
	1.3s	1615.39nm			7.1mb
Z	20s	17.02um			6.5Msz
			i	48 25.00	
			iS	57 40.00	
TTG	95.11	314	iP	46 07.00	-0.9
			e(S)	55 34.00	
VLS	95.24	310	iPd	46 07.00	-1.7
VIE	95.35	320	iP-	46 09.70	0.8
			i	46 11.80	
			e	49 30.20	
			i	50 17.00	
VKA	95.38	320	iPd	46 09.10	0.0
			i	46 11.90	
			i	50 16.10	
			i	55 44.90	
PHC	95.40	37	iPd	46 09.40	0.3
	0.8s	334.00nm			6.6mb
SYO	95.49	201	iP	46 08.50	-0.6
BRL	95.77	325	iPd	46 12.00	1.3
BRN	95.84	325	iPd	46 11.80	0.8
BLY	95.89	317	iP	46 11.60	0.2
PRU	95.91	322	iPd	46 11.60	0.2
	1.5s	1529.00nm			7.0mb
Z	18s	15.40um			6.5Msz
N	18s	9.70um			
E	18s	11.90um			
			i	46 23.40	
			ePP	50 16.00	
			SKS	56 34.00	
			PKKP	01 51.00	
BRG	95.96	323	iPd-	46 11.70	0.1
	1.4s	2700.00nm			7.3mb
			i(pP)	47 05.00	216kmX
			eSKS	56 38.00	
			eP'P'	11 05.50	
KRI	96.27	254	iPd	46 11.00	-2.8
			iPP	48 33.00	
			i	50 25.00	
			i	02 57.00	
CLL	96.36	324	iPd	46 13.20	-0.2
	1.5s	480.00nm			6.5mb
			epP	48 32.00	649kmX
			eS	56 37.00	
MUD	96.41	329	iPd	46 13.10	-0.4
	1.1s	1100.00nm			7.0mb
BER	96.43	334	eP	46 13.00	-0.5
LCI	96.64	312	iPd	46 13.50	-1.4
YKA	96.68	23	eP	46 15.20	0.5
YKC	96.74	23	ePd	46 15.00	0.1
	1.6s	1132.00nm			6.9mb
KMR	96.83	320	iP-	46 16.30	0.7
			e	48 48.00	
			i	50 26.80	
			i	58 07.60	
BRT	97.03	313	eP	46 16.00	-0.6
			e	50 28.00	
WET	97.22	322	iPd	46 17.50	0.0
LJU	97.25	318	iPd	46 17.10	-0.6
			ePP	48 44.80	
			e	49 15.00	
			e	50 26.50	
			eS	55 52.00	
HAM	97.27	327	iPd	46 18.00	0.5
HOF	97.39	323	iPd	46 18.10	-0.1
			e	56 46.00	
MOX	97.42	324	iPd-	46 18.50	0.2
	1.6s	2315.00nm			7.2mb
Z	18s	15.40um			6.5Msz
N	16s	14.40um			
E	16s	8.20um			
			epP	48 38.00	653kmX
			iPP	50 28.00	
			iPPP	52 36.00	
			iSPP	53 36.00	
			iSKS	56 48.00	
			iSP	58 12.00	
			isSP	02 12.00	
			iSS	03 45.00	
			eSSS	07 20.00	
			e	11 05.00	
CEY	97.42	318	iPd	46 18.10	-0.4
BUL	97.58	251	iPd	46 18.00	-1.7
	0.9s	315.13nm			6.6mb
			iPP	48 40.00	
			i	50 30.00	
			i	50 53.00	
			iS	55 55.00	
KBA	97.67	320	iPd	46 18.50	-1.3
	1.2s	468.80nm			6.7mb
			i	46 20.70	
			i	47 20.00	
			i	48 51.20	
			i	49 50.90	
			i	50 08.30	
			i	50 20.20	
			i	50 42.80	
			i	51 56.70	
			i	55 57.30	
			i	02 52.00	
BHG	97.73	320	iPd	46 19.40	-0.4
EVA	97.77	244	iPd	46 19.70	-0.8
	1.0s	388.00nm			6.7mb
			i	48 45.50	
ORI	97.82	312	eP	46 20.00	-0.3
			e	50 33.00	
TRI	97.87	318	iPd	46 19.50	-0.9
			i	48 38.00	
			i	49 40.00	
			i	50 31.10	
			i	53 38.00	
			i	56 50.00	
			i	58 04.00	
			i	02 18.00	
CSI	98.02	312	iPc	46 20.80	-0.5
GRF	98.02	323	iPd	46 21.40	0.3

	Z 21s		15.50um		6.5Msz
			ePP	50 34.00	
			eSKS	56 53.00	
			e(S)	58 19.40	
SPA	98.09	180	eP	46 21.70	0.6
	1.0s		20.50nm		5.4mb X
	Z 20s		18.29um		6.6Msz
SLR	98.41	245	iPd	46 22.20	-1.2
	1.6s		766.67nm		6.8mb
	Z 20s		15.96um		6.5Msz
			i	48 44.60	
PGC	98.56	38	eP	46 23.80	0.4
FUR	98.57	321	iPd	46 23.40	-0.2
			i	46 25.90	
			e	50 39.00	
			e	56 00.50	
			e	02 23.00	
BPI	98.67	245	eP	46 23.00	-1.6
	1.0s		150.00nm		6.3mb
			i	48 47.50	
DUI	98.75	314	eP	46 26.00	1.6
MCW	98.92	38	P	46 24.70	-0.4
MSI	99.04	311	eP	46 26.50	0.7
			e	50 45.00	
OVO	99.07	314	eP	46 25.50	-0.4
CTI	99.13	319	iPd	46 25.00	-1.2
			e	48 54.00	
			e	50 44.00	
			e(S)	56 02.50	
NPL	99.16	314	eP	46 25.70	-0.5
SEK	99.20	243	iPd	46 25.80	-1.1
	0.9s		184.87nm		6.4mb
			i	48 51.00	
OGA	99.22	320	iPd	46 26.10	-0.6
AQU	99.26	315	iPd	46 26.50	-0.3
			e	49 03.00	
			e	50 45.50	
			e(S)	56 10.00	
WIT	99.32	327	iPd	46 27.80	1.1
			e	49 03.00	
			e	58 35.00	
GMW	99.39	39	P	46 28.00	0.8
TNS	99.45	324	iPd	46 22.40	-5.1X
			e	49 00.00	
			e	50 41.00	
			e	56 06.50	
			e	57 09.30	
			e	58 33.30	
			e	59 31.00	
BFW	99.53	40	P	46 28.40	0.5
WTS	99.61	326	iPd	46 28.40	0.4
	1.4s		2231.00nm		7.4mb
			i	50 46.20	
			e	58 21.50	
MNS	99.75	315	iPd	46 27.50	-1.3
			e	49 04.00	
			e	50 41 50	
			e(S)	56 04.50	
BFS	99.84	244	iPd	46 29.00	-0.7
	0.9s		126.05nm		6.3mb
			i	48 54.30	
BNS	99.86	325	iPKPd	46 29.20	0.0
			iPP	48 46.00	
			i	49 55.00	
RMP	99.94	315	iPd	46 29.00	-0.7
			iPP	50 48.00	
			iPS	59 44.00	
RDP	99.95	315	eP	46 29.00	-0.8
			e	50 44.50	
SAL	100.02	319	iPdiff46	30.00	0.1
			e	49 05.50	
			e	50 50.00	
			e(S)	56 08.00	
COR	100.20	42	iPdiff46	16.00	-14.8X
BUH	100.23	323	ePdiff46	30.60	-0.3
FIR	100.23	317	iPdiff46	30.50	-0.4
			S	56 06.00	
FIR	100.23	317	iPdiff46	40.50	9.6X
			ePP	49 28.00	
			iS	56 06.00	
GIB	100.26	311	e(Pdif46	30.00	-1.4
			e	50 12.00	
GRM	100.42	238	iPdiff46	31.00	-1.1
	0.9s		151.26nm		6.4mb
DBN	100.46	327	iPdiff46	33.00	1.3
	Z 18s		16.20um		6.6Msz
			e	48 49.00	

			e	49 49.00	
			iPP	50 50.00	
			i	52 48.00	
			i	53 46.00	
			e	57 15.00	
			i	58 45.00	
			i	59 37.00	
			i	00 10.00	
			i	02 56.00	
GWF	100.46	323	iPdiff46	32.50	0.6
BLF	100.52	242	iPdiff46	32.00	-0.8
	0.6s		32.14nm		5.9mb
			i	48 57.00	
PNT	100.59	37	ePdiff46	32.60	0.2
	1.0s		178.00nm		6.5mb
ENN	100.66	325	iPdiff46	33.00	0.4
	1.3s		1295.00nm		7.2mb
			i	50 51.50	
			e	58 46.50	
			e	59 29.00	
CDF	100.91	323	ePdiff46	33.30	-0.7
WLF	101.03	324	Pdiff-46	36.00	1.7
			SKS	56 13.00	
			S	57 21.00	
			SP	58 52.00	
ECH	101.07	322	iPdiff46	34.40	-0.2
FHC	101.12	46	ePdiff46	35.70	0.7
			ePP	50 59.00	
AKU	101.21	345	iPdiff46	36.10	1.4
	1.3s		792.31nm		7.0mb
			i	49 54.20	
			i	50 55.50	
			i	02 46.10	
VG1	101.22	319	ePdiff46	36.00	0.7
			e(S)	56 13.00	
BAF	101.33	322	iPdiff46	35.50	-0.4
BSF	101.46	322	ePdiff46	35.60	-0.9
ROF	101.46	322	iPdiff46	35.80	-0.5
UCC	101.52	326	Pdiffc46	36.90	0.4
	1.4s		4327.00nm		7.7mb X
			e	48 58.00	
			PP	51 00.00	
			PPP	53 03.00	
			e	54 02.00	
			SP	58 54.40	
HAU	101.65	323	ePdiff46	36.30	-0.9
	1.2s		139.40nm		6.3mb
ORO	101.66	320	e(Pdif46	36.50	-0.9
			e(S)	56 14.50	
DOU	101.72	325	Pdiff 46	35.40	-2.0
	1.2s		6366.00nm		8.0mb X
			e	46 37.20	
			sP	49 08.00	
			PP	51 01.20	
			PPP	53 01.00	
			SKS	56 17.20	
			S	57 23.00	
			SP	58 55.00	
			P'P'	13 23.10	
EDM	102.16	31	iPdiff46	39.70	0.3
WDC	102.22	46	iPdiff46	39.90	0.0
			ePP	51 03.00	
			eSKS	56 21.00	
			eSP	59 07.00	
			eP'P'	11 05.00	
CVF	102.30	317	iPdiff46	39.30	-0.9
RMT	102.38	46	Pdiff 46	41.10	0.6
NEW	102.54	37	ePdiff46	41.00	-0.2
GDH	102.76	359	ePdiff46	41.00	-0.5
	1.4s		237.21nm		6.5mb
			i	49 00.00	
EKA	102.97	332	Pdiffc46	45 30	2.5X
	1.4s		511.70nm		6.9mb
MIN	102.97	45	ePdiff46	42.80	-0.6
ORV	103.35	46	Pdiff 46	44.60	-0.3
FRF	103.39	318	iPdiff46	44.00	-1.0
REY	103.42	345	ePdiff46	47.40	2.8X
			i	51 12.40	
BKS	103.44	48	ePdiff46	45.30	-0.1
	1.1s		230.00nm		6.7mb
			epP	49 04.00	
LHD	103.46	36	ePdiff46	48.20	2.9X
LOR	103.48	323	ePdiff46	44.50	-0.8
	1.2s		278.90nm		6.7mb
LDM	103.50	36	iPdiff46	46.40	0.9
LBF	103.55	322	ePdiff46	44.70	-1.0
VDM	103.56	325	ePdiff46	47.70	2.1

LMR	103.57	318	iPdiff46	45.10	-0.7
LRG	103.62	318	ePdiff46	45.40	-0.6
CLX	103.73	36	iPdiff46	47.20	0.5
SMF	103.79	322	ePdiff46	46.10	-0.6
SSF	103.79	323	ePdiff46	46.00	-0.7
CDR	103.91	319	iPdiff46	49.90	2.6X
			e	51 19.80	
GRC	103.94	323	iPdiff46	47.30	0.0
			i	50 48.50	
			i	51 10.30	
AVF	104.02	322	ePdiff46	47.00	-0.7
MHC	104.08	48	ePdiff46	48.70	0.3
			ePP	51 18.00	
			ePKKP	02 38.90	
ARN	104.15	48	Pdiff 46	48.50	-0.1
BNG	104.39	277	iPdiff46	49.00	-1.1
	1.1s		45.00nm		6.1mb
BCAO	104.40	277	Pdiff 46	48.20	-2.0
SAO	104.44	49	ePdiff46	49.50	-0.3
SLD	104.49	48	Pdiff 46	50.40	0.3
JAS	104.73	47	iPdiff46	51.10	0.0
			ePP	51 19.00	
			eSKS	56 32.00	
			eSP	59 30.00	
			ePKKP	02 35.00	
			eSS	05 24.00	
MZF	104.76	322	ePdiff46	50.80	-0.2
NVL	104.80	199	ePdiff46	52.00	1.4
			ePP	51 21.00	
			ePPP	53 42.00	
			eSKS	56 29.00	
			e	57 15.00	
			eSP	59 32.00	
SES	104.89	33	iPdiff46	51.30	-0.2
	0.7s		134.00nm		6.8mb
TCF	104.95	322	iPdiff46	51.50	-0.4
	1.3s		225.60nm		6.7mb
LDF	105.15	325	ePdiff46	52.30	-0.4
SUR	105.25	239	iPdiff46	58.00	4.2X
	0.7s		72.60nm		6.5mb
	Z 19s		19.51um		6.7Msz
PRI	105.25	49	ePdiff46	54.20	0.6
			ePP	51 28.00	
			ePKKP	02 34.50	
FLN	105.26	325	ePdiff46	52.80	-0.3
LSF	105.38	323	ePdiff46	53.20	-0.6
DMU	105.57	332	ePdiff46	53.60	-0.8
	1.5s		750.00nm		7.2mb
DDK	105.63	332	ePdiff46	54.10	-0.5
	1.5s		550.00nm		7.1mb
FRI	105.64	48	iPdiff46	55.00	-0.1
			ePKKP	02 34.50	
GRR	105.67	325	ePdiff46	55.00	0.0
CAF	105.70	321	ePdiff46	55.10	-0.2
	1.5s		135.60nm		6.5mb
DLE	105.78	332	ePdiff46	54.30	-1.0
	1.5s		490.00nm		7.0mb
RJF	105.85	322	ePdiff46	56.10	0.2
LPF	105.96	325	ePdiff46	56.40	0.1
BMN	105.99	44	Pdiff 46	57.60	0.8
MNA	106.18	46	iPdiff46	45.20	-12.5X
			eSP	59 48.00	
MFF	106.20	323	ePdiff46	57.50	0.1
	1.2s		160.60nm		6.6mb
LPO	106.36	321	ePdiff46	58.10	-0.1
	1.3s		62.40nm		6.2mb
SYP	106.38	51	ePKP	50 33.00	-32.9X
			ePPP	53 41.00	
			eSP	59 45.00	
SYP	106.38	51	ePdiff47	01.00	2.3X
LRM	106.51	37	ePdiff46	59.40	0.2
LFF	106.52	322	ePdiff46	59.00	0.2
	1.5s		180.80nm		6.6mb
FFC	106.62	26	ePdiff46	58.30	-0.8
	0.9s		58.00nm		6.3mb
FCC	106.69	20	ePdiff46	58.00	-1.2
ISA	107.08	49	ePdiff47	03.00	1.3
ISA	107.08	49	PKP	51 07.00	-0.1
			ePPP	53 42.00	
			eSP	59 54.00	
EUR	107.27	44	iPdiff47	02.60	-0.1
	0.3s		12.88nm		6.2mb
MLS	107.28	320	ePdiff47	05.00	2.7X
			e	51 41.80	
SET	107.32	312	iPdiff47	20.50	17.7X
FRB	107.70	6	ePdiff47	02.50	-1.1
EPF	107.71	320	ePdiff47	04.70	0.4

05d 03h

1.3s 57.70nm 6.2mb
PAS 107.91 50 ePKP 50 20.00 -48.6X
ePPP 53 43.00
eSP 00 02.00
PAS 107.91 50 iPKP 50 40.00 -28.6X
Z 20s 9.00um 6.3Msz
PAS 107.91 50 ePdiff47 04.00 -1.3
1.4s 100.00nm 6.5mb
SBB 107.96 50 PKP 50 36.00 -32.8X
ePPP 53 43.00
eSP 00 03.00
SBB 107.96 50 ePdiff47 05.00 -0.6
MWC 107.96 50 ePdiff47 06.00 0.2
MWC 107.96 50 PKP 51 09.00 0.0
ePPP 53 45.00
eSP 00 03.00
ATE 108.35 320 ePKP 51 12.10 2.9X
VAL 108.38 332 ePdiff47 06.00 -0.9
iS 57 11.00
MADF 108.39 321 ePKP 51 12.10 2.8X
GSC 108.47 49 ePdiff47 08.00 0.1
GSC 108.47 49 PKP 51 13.00 3.2X
ePPP 53 41.00
eSP 59 50.00
RVR 108.58 50 ePdiff47 11.00 2.8X
RVR 108.58 50 PKP 51 04.00 -5.9X
ePPP 53 46.00
eSP 00 09.00
EBR 108.70 318 ePdiff47 09.00 0.4
e 51 13.00
e 51 53.00
e 54 56.00
ABA 108.80 313 ePKP 51 09.00 -1.2
SLBC 109.05 51 ePdiff47 12.60 2.2X
SLBC 109.05 51 ePKP 51 11.50 0.7
eS 51 56.00
PLM 109.23 51 ePdiff47 12.00 0.6
PLM 109.23 51 PKP 51 12.00 0.6
ePPP 53 59.00
eSP 00 07.00
SNA 109.28 197 ePdiff47 28.00 17.5X
0.6s 13.33nm
TPC 109.53 50 PKP 50 22.00 -49.8X
ePPP 53 47.00
eSP 00 19.00
TPC 109.53 50 ePdiff47 12.00 -0.6
BAR 109.64 51 ePdiff47 14.00 0.9
BAR 109.64 51 PKP 50 59.00 -13.0X
ePPP 53 47.00
eSP 00 08.00
LGR 109.81 321 ePdiff47 19.00 5.5X
BDW 109.87 39 Pdiff 47 16.00 1.9
1.0s 45.00nm
ALI 110.56 316 iPdiff47 16.00 -0.9
i 51 52.00
TOL 112.16 319 iPdiff47 25.00 0.9
TAM 112.22 299 iPdiff47 20.50 -4.4X
ALM 112.66 315 iPKPc 51 19.50 1.9
1.3s 10.00nm
i 52 09.00
i 52 24.10
i 58 57.60
CRT 113.28 316 iPKPd 51 01.80 -17.1X
iPP 51 20.00
MAL 114.07 316 Pdiff 47 33.00 0.4
i 51 20.00
i 52 29.00
i 01 00.00
SFS 115.44 317 ePdiff47 40.00 1.4
e 51 24.00
i 52 10.00
i 55 38.00
i 58 18.00
i 01 10.00
i 05 24.00
LIS 116.09 320 ePKP 51 24.00 -0.1
ALQ 116.10 45 ePdiff47 43.00 1.1
Z 20s 14.54um 6.6Msz
IFR 116.23 314 iPKPc 51 25.50 0.7
LHC 116.61 24 ePdiff47 44.00 0.5
LHC 116.61 24 iPKPd 51 24.40 -0.3
1.2s 1172.00nm
SCH 116.65 7 ePdiff47 52.00 8.4X
ACO 119.93 39 e(Pdif48 03.80 5.2X
0.7s 7.80nm
ACO 119.93 39 ePKP 51 28.50 -3.0X
i 51 31.40
QZO 120.94 41 e(Pdif48 08.60 5.4X
QZO 120.94 41 ePKP 51 32.50 -1.0
RRO 121.20 40 ePKPd 51 33.50 -0.5
1.2s 1909.30nm
e 54 09.50
MZX 121.87 56 ePKP 51 34.20 -1.3
TUL 122.50 38 ePdiff48 11.40 1.4
1.0s 5.90nm
TUL 122.50 38 ePKP- 51 52.00 15.6X
1.0s 1288.20nm
Z 19s 10.60um 6.5Msz
RLO 122.79 37 e(Pdif48 13.70 2.4X
RLO 122.79 37 e(PKP)51 35.00 -2.0
GBO 122.91 37 e(Pdif48 16.20 4.3X
GBO 122.91 37 e(PKP)51 34.90 -2.3
JCT 123.24 45 ePdiff48 16.00 2.5X
JCT 123.24 45 iPKP 51 38.00 -0.1
Z 20s 12.41um 6.6Msz
OTT 123.90 16 ePKP 51 38.00 -0.8
1.1s 1584.00nm
BHO 124.08 39 e(PKP)51 39.60 0.1
MNT 124.36 15 ePKP 51 45.00 5.3X
1.2s 960.00nm
STJ 124.44 357 ePKP 51 35.00 -4.8X
1.3s 1966.00nm
ATX 124.69 44 iPKP 51 41.50 0.6
HKT 126.30 43 iPKP 51 45.20 1.3
KIC 126.68 284 ePdiff48 47.20 18.0X
e 51 24.20
TEN 126.96 315 iPKP 51 47.60 2.4X
iPP 53 39.70
GMTN 128.48 17 ePKP 51 36.40 -11.4X
i 51 45.90
i 54 02.30
OXM 129.23 57 PKP 51 36.00 -14.2X
IIC 129.36 56 PKP 51 38.10 -12.4X
BLA 129.51 25 ePdiff48 43.60 2.4X
pP 51 06.80
i 51 48.80
pPKP 54 12.50
iPKS 55 14.80
IIM 129.64 57 PKP 51 37.00 -13.9X
IIP 129.85 57 PKP 51 38.50 -12.9X
III 129.85 58 PKP 51 36.50 -14.8X
TPM 129.90 57 PKP 51 39.00 -12.3X
ACX 130.20 60 ePKP 51 41.40 -10.3X
IIT 130.51 57 PKP 51 40.90 -11.7X
VHO 132.68 58 PKP 51 44.00 -12.6X
PBJ 134.18 58 PKP 51 45.00 -14.2X
CR7 135.62 55 PKP 51 54.00 -8.2X
OZC 135.69 56 PKP 51 49.40 -12.8X
CR6 135.72 56 PKP 51 46.80 -15.6X
CR5 135.88 56 PKP 51 50.70 -12.0X
CZC 136.01 56 PKP 51 49.50 -13.3X
COM 136.98 56 PKP 51 56.00 -8.8X
TMU 146.16 157 iPKPc 52 20.40 0.5
SRA 146.57 58 ePKP 52 22.00 0.6
SJS 146.97 58 iPKPd 52 22.90 0.8
LCR 147.12 58 iPKPd 52 23.50 1.2
VBA 149.78 171 iPKPc 52 25.00 -0.6
TACH 151.21 154 iPKPc 52 27.50 -0.4
UPA 151.21 54 iPKPd 52 27.50 -0.8
1.2s 187.50nm
Z 20s 12.77um 6.7Msz
N 20s 16.31um
i 52 30.00
i 54 59.40
RFA 151.22 159 ePKPd 52 27.50 -0.4
PCH 151.42 154 iPKPc 52 28.50 0.2
SAN 151.50 154 ePKP 52 28.00 -0.3
PEL 151.75 154 iPKPd-52 28.50 -0.2
ROCH 151.76 153 iPKPd 52 29.00 0.1
FCH 151.77 155 iPKPd 52 29.00 -0.1
SJG 152.13 21 iPKPd 52 29.00 -0.6
1.4s 976.74nm
Z 20s 10.64um 6.6Msz
JACH 152.19 153 iPKPc 52 29.60 0.2
MDZ 152.75 156 iPKP 52 31.00 0.9
LPA 153.32 177 iPKPd-52 32.00 1.3
1.0s 1152.00nm
Z 22s 22.96um 6.9Msz
RTCV 153.77 156 ePKPd 52 29.00 -2.5
ZON 153.99 155 ePKP 52 32.00 0.2
CFA 154.11 156 ePKPd 52 29.40 -2.6
RTLL 154.26 155 ePKPc 52 29.60 -2.6
BPA 154.36 13 ePKPd 52 32.30 -0.3
SEG 155.05 12 iPKPd 52 33.30 -0.2
SFG 155.26 11 ePKP 52 34.00 0.2
PAG 155.38 13 ePKP 52 34.50 0.4
MGG 155.56 12 ePKPd 52 34.30 0.1
MDN 156.13 12 ePKP 52 35.00 0.0
LGN 156.45 40 ePKP 52 41.40 6.0X
VCA 156.61 153 iPKPd 52 36.40 0.9
FDF 156.75 12 ePKP 52 36.20 0.4
CRM 156.78 12 ePKP 52 35.90 0.1
BIM 156.98 12 ePKP 52 36.40 0.3
MVM 156.97 12 ePKP 52 36.10 0.0
PSO 157.01 67 ePKP 52 39.00 2.3
BMG 157.40 48 ePKP 52 37.00 0.2
SLW 157.49 12 ePKP 52 37.00 0.3
TOV 157.64 37 iPKPd 52 37.00 0.0
UAV 157.68 42 iPKPd 52 37.70 0.5
0.6s 171.40nm
SDV 157.81 41 iPKPd 52 37.70 0.4
0.7s 300.00nm
CYA 157.88 157 ePKPd 52 36.80 0.0
FUQ 157.91 53 iPKP 52 37.00 -0.6
BOG 158.15 55 ePKP 52 38.00 0.1
CAR 158.62 30 iPKPd 52 38.00 -0.1
1.0s 168.00nm
iPP 53 18.00
ANT 159.40 140 iPKPd-52 40.00 1.5
iS 02 44.50
RDJ 160.74 219 iPKPd 52 41.60 1.7
SLA 161.28 153 iPKPc 52 42.00 1.3
sS 03 03.00
SS 07 06.00
ITR 162.38 267 iPKP 52 42.10 0.3
HJA 162.62 151 ePKPd 52 44.60 2.8X
VAO 162.76 210 ePKP 52 42.90 0.8
1.4s 300.60nm
e 52 45.90
YJA 163.44 148 ePKPd 52 45.20 2.0
LPB 165.72 127 iPKPd-52 47.00 1.7
1.0s 1470.00nm
iSKS 03 24.00
BAO 169.04 227 iPKPd 52 46.80 -0.4
S.D. = 1.0 on 600 of 683 obs.

MAR 19, 1984 20h 28m 38.24± 0.05s
40.341 N ± 1.5km 63.359 E ± 0.8km
DEPTH = 14.5km (26 depth phases)
6.5mb (119 obs.) 7.0Msz (28 obs.)
UZBEK SSR (339)

At least 100 people injured and extensive damage (IX) in the Gazli area. Damage (VII-VIII) at Dzhangeldy and (VII) in the Bukhara area. Felt (VII) at Chardzhou; (VI) at Navoi and Mary; (V-VI) at Samarkand: (V) at Dzhizak and Ashkhabad; (IV) at Tashkent and Dushanbe; (III-IV) at Andizhan; (III) at Leninabad, Ura-Tyube, Chimkent and Dzhambul; (II-III) at Kulyab, Khorog and Frunze. Felt also at Mashhad, Iran.

SAM 2.87 102 iPnd 29 24.90 0.6
iS* 30 03.70
iSg 30 13.30
DSH 4.56 111 iPnc 29 49.00 0.7
ePg 30 08.00
eSg 31 14.00
ASH 4.57 240 iPnd 29 49.00 0.6
eSn 30 42.00
TAS 4.61 76 iPnc 29 49.00 -0.1
eSn 30 39.20
iSg 31 14.00
VAN 4.73 241 ePnc 29 49.70 -1.1
eSn 30 44.30
MHI 5.05 218 iPc+ 29 55.50 0.2
GAR 5.53 102 ePn 30 02.20 0.0
eS* 31 22.50
KUL 5.54 114 iPn 30 03.00 0.8
iPg 30 28.40
iSn 31 11.40
KAT 5.58 260 iPnc 30 03.50 0.7
ANR 6.87 84 iPnc 30 19.80 -1.1
eSn 31 42.00
eSg 32 25.00
KHO 6.98 112 iPnc 30 22.10 -0.6
6.0s *******nm 7.9mb X

19d 20h

KHI		7.24	213	iP+	30	25.30	-0.9	MOS		22.90	321	iPc	33	42.00	-0.2			1.7s	363.00nm		5.9mb
FRU		8.80	70	iPc	30	45.40	-2.5			2.0s	6200.00nm			6.8mb		ZAK		29.47	57	iPc	34	44.60	1.1
				iS	32	25.00						ePP	34	12.00				1.7s	2120.00nm		6.7mb
NRN		9.64	79	iPc	30	55.80	-3.9X					iPcP	37	34.00		MMB		29.77	286	iPc	34	46.00	-0.4
				eS	32	46.00						iS	37	47.00		SRS		29.97	285	ePn	34	48.00	-0.1
KSH		9.74	91	iPc	30	59.00	-2.0	OBN		23.12	319	iPc	33	44.00	-0.3	VTS		29.98	288	iPc	34	49.00	0.9
BAK		10.27	275	iPd	31	06.00	-2.1			1.7s	1700.00nm			6.3mb		CEI		30.04	298	eP	34	52.00	3.4X
	N	10s	105.00um						Z	18s	1008.00um			7.3Msz		UZH		30.14	300	iPc	34	49.00	-0.5
	E	10s	79.20um						N	18s	1113.00um						Z	19s	168.00um		6.7Msz
				eS	33	07.00			E	18s	987.00um									ePP	35	45.50	
TEH		10.50	248	ePc	31	09.50	-1.9					ePP	34	12.00						iPPP	35	55.00	
QUE		10.55	163	iPd-	31	11.50	-0.6					iS	37	56.00						iS	39	50.00	
				eS	33	08.00		HRI		23.15	261	iP	33	47.00	2.0	PAIG		30.17	282	iPnc	34	49.20	-0.6
AAA		10.56	69	iPd	31	10.60	-1.5	POO		23.54	154	iPc	33	50.70	1.9	SOH		30.21	284	iPnc	34	50.00	-0.3
				iS	33	10.40		KDE		24.12	283	iP	33	53.70	-0.5	IRK		30.30	53	iPc	34	50.00	-0.9
AAA		10.56	69	P	31	14.00	1.9	JER		24.24	258	iPc	33	52.20	-3.4X			2.0s	970.00nm		6.3mb
TLG		10.87	70	iPc	31	12.10	-4.3X	LSA		25.02	106	Pc	34	05.50	2.0		Z	10s	605.00um		7.5MszX
				iS	33	22.00		PRNI		25.10	255	eP	34	06.00	2.2		N	10s	185.00um		
SHE		11.22	276	P	31	27.00	5.9X	GPA		25.12	281	iP	34	03.50	-0.5		E	10s	585.00um		
PRZ		11.50	74	eP	31	22.40	-2.6	HRT		25.51	282	iP	34	07.30	-0.3					ePP	35	42.00	
		1.0s	1500.00nm			7.2mb		BCK		25.59	274	iP	34	07.00	-1.4					ePcP	37	58.00	
				eS	33	30.00		KIS		25.67	297	iPd	34	08.00	-1.0					eS	39	50.00	
MAK		12.21	288	iPc	31	29.20	-5.2X		Z	21s	363.00um			6.9Msz						eSSS	41	47.00	
		1.0s	9500.00nm			8.0mb	X		N	19s	305.00um					THE		30.54	284	iPnc	34	52.00	-1.1
				iS	33	46.80			E	22s	482.00um					ATH		30.66	279	iPc	34	54.20	0.0
KRV		12.97	277	iP	31	39.00	-5.6X					iPP	34	53.00						iS	40	00.00	
				iS	34	04.00						iPPP	34	58.00		VAY		30.68	285	iPc	34	54.20	-0.1
GRS		13.10	272	iPc	31	41.00	-5.5X					iS	38	39.00		TIM		30.99	294	iPc	34	57.20	0.2
		1.8s	970.00nm			6.6mb						isS	38	45.00		WAR		31.14	307	eP+	34	57.00	-1.2
				eS	34	04.00						iSSS	40	00.00						e	35	36.00	189kmX
TAB		13.41	266	iPc+	31	47.70	-2.9	ISK		25.92	283	iPd	34	11.80	0.5					e	40	00.00	
GRO		13.52	289	iPc	31	47.00	-4.8X	CFR		26.16	292	iPc	34	13.50	0.0					e	40	28.00	
				iS	34	21.00		PSN		26.23	289	iPc	34	15.00	0.9					e	41	00.00	
TIF		14.08	282	P	31	55.20	-4.1X	TLB		26.27	291	iPc	34	14.70	0.1	NUR		31.19	323	iPc+	34	58.10	-0.5
MTA		14.08	282	iPc	31	55.20	-4.0X	HYB		26.36	146	iPc	34	16.00	0.4			0.8s	953.50nm			6.7mb	
KER		14.24	250	eP	32	01.00	-0.5			1.0s	2280.00nm			6.8mb						i	35	01.20	11km
ERE		14.40	275	iPc	32	00.00	-3.6X					iS	3B	44.00						eS	40	04.00	
				iS	34	45.00		BIR		26.51	295	iP	34	18.00	1.2	JOS		31.31	300	iPc	34	59.80	0.0
LEN		14.84	278	eP	32	07.00	-2.4	DST		26.53	280	iPc	34	17.20	0.1	SKO		31.38	287	iPc	35	00.20	-0.3
		2.0s	1800.00nm			6.2mb		IAS		26.57	297	eP	34	18.00	0.7					i	35	04.00	13km
BKR		15.04	282	iPd	32	09.00	-3.0X	KCT		26.60	281	iP	34	17.30	-0.3					iPP	36	06.00	
	Z	18s	4494.00um					FOC		26.83	294	iP	34	16.00	-3.6X					iS	40	05.50	
				iS	34	54.00		BNT		26.90	282	iPc	34	21.30	0.9	SUF		31.48	328	iPc	35	00.80	-0.4
PYA		15.49	290	iPc	32	12.50	-5.2X	ODB		26.92	294	eP	34	24.00	3.5X			0.6s	290.10nm			6.4mb	
		1.0s	1450.00nm			6.2mb		EDC		26.95	282	iPd	34	20.70	-0.1	SPC		31.49	301	eP	35	02.20	0.5
	Z	13s	35.00um			6.7MszX		BAC		27.01	295	eP	34	09.00	-12.4X			1.4s	5274.00nm			7.2mb	
	N	13s	27.00um					VRI		27.14	294	eP	34	23.00	0.4	KJF		31.61	331	iPc+	35	01.40	-0.9
	E	13s	14.00um					ISR		27.30	292	iPc	34	25.50	1.4			0.6s	824.00nm			6.8mb	
				eS	35	06.00		KGT		27.34	282	iP	34	25.30	0.9					i	35	06.00	16km
SEM		15.53	44	ePc	32	13.20	-4.9X	CVO		27.53	294	iPc	34	27.00	0.9					ePPP	37	00.00	
				eS	35	03.00		JMB		27.53	287	iPd	34	27.00	0.9					eS	40	00.00	
NDI		16.28	131	iPd	32	23.80	-4.0X	MNK		27.54	312	iPc	34	26.00	-0.1	KRA		31.70	303	iPc	35	02.50	-0.7
		1.0s	800.00nm			5.8mb						ePP	35	12.00				1.0s	2862.00nm			7.1mb	
				iS	35	16.00						ePPP	35	32.00						i	35	07.00	16km
ARU		16.37	351	ePc	32	24.00	-4.9X					ePcP	37	48.00						i	35	20.10	
				eS	35	22.00						eS	39	03.00						iS	40	09.00	
SVE		16.58	355	iPc	32	27.00	-4.5X	MLR		27.71	293	iPd	34	28.00	0.2	PSZ		31.76	298	ePc	35	04.00	0.2
				iS	35	31.00		BUC1		27.72	291	iPc	34	29.00	1.2	APA		31.84	339	iPc	35	03.70	-0.6
BHD		16.74	251	iPd	32	33.00	-0.6	CGN		27.76	290	ePc	34	28.50	0.4			0.7s	860.00nm			6.8mb	
				i	34	42.00		IZM		27.86	278	iPc	34	29.00	-0.2		Z	11s	670.00um			7.6MszX	
				iS	35	37.00		GTA		27.87	80	iPc	34	30.40	1.0					iPP	36	05.00	
				iPcP	37	27.00		SHL		27.96	113	iP	34	29.80	-0.5					iPcP	37	52.00	
				iLQ	37	49.00						iS	39	08.00						iS	40	13.00	
				i	38	36.00		HLW		28.07	258	iPc	34	30.00	-1.1	LZH		31.90	84	iPc+	35	06.00	0.7
				iSS	44	34.00		MOY		28.18	54	iPc	34	32.90	1.1			7.0s	8979.00nm			6.8mb	X
SOC		17.86	288	iPc	32	46.00	-1.7			1.4s	310.00nm			5.9mb			N	11s	20.90um				
		2.0s	2900.00nm			6.1mb		EZN		28.21	281	iPd	34	32.00	-0.3		E	13s	407.00um				
				eS	36	08.00		PUL		28.31	324	iPc	34	33.00	0.0					pP	35	16.00	36kmX
WMQ		18.38	71	iPc	32	52.00	-2.2			1.3s	5800.00nm			7.2mb						PPP	36	25.00	
ANN		19.67	292	iPc	33	07.00	-2.6		Z	18s	480.00um			7.1Msz						PcP	37	59.00	
		1.5s	*******	nm		7.0mb			N	18s	200.00um									S	40	09.00	
				iS	36	49.00			E	18s	420.00um									sS	40	27.00	
NVS		19.72	36	ePc	33	06.50	-3.4X					esP	34	40.00		NRI		31.92	16	iPc	35	05.00	0.0
		1.0s	2800.00nm			6.5mb						iS	39	20.00				1.3s	1000.00nm			6.6mb	
				iS	36	40.50		LRR		28.32	293	P	34	33.00	-0.3		N	14s	135.00um				
ELT		20.20	43	iPc	33	12.80	-2.2	DIM		28.33	286	iP	34	34.00	0.7		E	13s	168.00um				
				iS	36	55.00		CMP		28.36	293	ePc	34	34.00	0.4					ePPP	36	20.00	
KVT		20.69	281	iPc	33	19.70	-0.6	PVL		28.47	288	iPc	34	35.00	0.4					iS	40	14.00	
SIM		21.94	292	iPc	33	31.00	-1.8	KDZ		28.57	285	iPc	34	36.00	0.5	OHR		32.03	286	iP	35	05.30	-1.0
	Z	20s	408.00um			6.8Msz		DRA		28.95	292	eP	34	44.00	5.1X					i	35	09.70	15km
	N	20s	680.00um					PLD		28.97	286	eP	34	39.00	0.0	BUD		32.37	298	iPc	35	09.10	0.0
	E	20s	384.00um					LVV		29.04	302	iPc	34	39.90	0.2	KOD		32.49	153	iPc	35	11.60	0.8
				iPP	33	54.00						iPPP	35	50.00				1.0s	806.00nm			6.6mb	
				iS	37	30.00						iS	39	23.60		SRO		32.83	298	iPc	35	13.20	0.2
DMN		21.99	119	iPc	33	33.60	-0.1	CJR		29.29	296	eP	34	42.50	0.5					iPP	36	23.00	
KKN		21.99	118	iPc	33	33.20	-0.5	BMR		29.33	298	ePc	34	43.00	0.7					iS	40	25.00	
PKI		22.22	118	iPc	33	36.00	-0.1	GBA		29.36	151	Pd	34	41.60	-1.2	TTG		32.88	288	iPc	35	13.10	-0.4

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			e	35 29.00	65kmX	
			eS	41 26.50		
ZST	33.61	299	iPc	35 20.50	0.6	
			iPP	36 30.30		
			eS	40 49.30		
			i	44 05.10		
CD2	33.91	93	iPc	35 24.00	1.2	
ARO	33.93	218	iP+	35 25.00	1.9	
KSP	34.03	304	iPc	35 23.50	0.0	
	1.2s	1977.00nm				6.9mb
			i	35 28.00	15km	
VIE	34.10	299	iP+	35 25.10	1.0	
	7.0s	*******nm				7.4mb X
			iPP	36 43.70		
			isS	41 07.50		
VKA	34.13	299	iPc	35 24.70	0.3	
	7.0s	*******nm				7.4mb X
	Z 11s	112.50um				6.9MszX
			iPP	35 42.40		
			iS	40 51.70		
			isS	41 06.20		
LCI	34.32	285	iPc	35 23.20	-2.8	
UPP	34.32	320	iPc	35 24.50	-1.3	
			iPP	36 33.00		
			iS	40 51.00		
BRT	34.73	286	iPc	35 28.50	-1.1	
KEV	35.04	339	iPc+	35 31.80	-0.1	
	0.5s	519.30nm				6.7mb
			i	35 36.50	16km	
			ePP	36 40.00		
			eS	41 00.00		
BTO	35.17	74	iPc	35 34.50	0.9	
			S	41 07.50		
PRU	35.18	303	iPc	35 33.70	0.3	
	2.0s	3886.70nm				6.9mb
	Z 15s	178.00um				6.9MszX
			PP	36 49.00		
			S	41 00.00		
ORI	35.50	285	iPc	35 36.20	0.0	
BRG	35.52	304	iPc+	35 36.00	-0.2	
			i	35 40.50	15km	
			iS	41 13.00		
LJU	35.59	296	iPc	35 37.40	0.4	
			eSn	41 12.00		
			eSS	43 31.00		
KMR	35.61	299	iP+	35 37.30	0.3	
CEY	35.71	295	iPc	35 38.40	0.4	
KHC	35.87	301	iPc	35 39.20	-0.1	
	1.2s	950.00nm				6.6mb
	N 10s	51.70um				
			PP	36 56.00		
			S	41 21.00		
BRL	35.88	307	iPc	35 39.70	0.4	
BRN	35.94	307	iPc	35 40.20	0.5	
CLL	36.09	305	iPc	35 40.70	-0.4	
	1.0s	920.00nm				6.6mb
			eS	41 16.00		
KMI	36.12	103	iPc+	35 42.00	0.1	
	7.0s	7.60nm				3.7mb X
	E 12s	96.00um				
			S	40 59.00		
			sS	41 29.00		
TRI	36.18	295	iP	35 41.60	-0.2	
			iPP	36 56.30		
			iS	41 18.00		
SGO	36.20	286	iPc	35 42.50	0.4	
HHC	36.24	73	iPc	35 43.40	0.8	
KBA	36.25	298	iPc	35 42.40	-0.3	
			i	35 44.10	6km	
			i	35 45.50		
			i	36 57.80		
			iS	41 20.30		
			i	41 53.30		
HFS	36.31	320	iP	35 42.00	-0.8	
	Z 22s	942.30um				7.5Msz
WET	36.32	301	eP	35 42.80	-0.3	
			eS	41 28.00		
COP	36.46	312	iPc	35 44.10	0.0	
	1.4s	465.12nm				6.1mb
			iS	41 25.00		
BHG	36.48	299	iPc	35 44.60	0.2	
	2.2s	1400.00nm				6.4mb
XAN	36.52	85	Pc	35 45.20	0.2	
			S	41 32.00		
DUI	36.53	288	iPc	35 46.00	1.1	
BOD	36.58	44	iPc	35 43.50	-1.6	
	1.0s	640.00nm				6.4mb
SGG	36.66	288	iPc	35 46.20	0.1	
RCI	36.68	282	eP	35 46.50	0.3	
MSI	36.72	283	eP	35 47.80	1.3	
OVO	36.80	287	iPc	35 47.80	0.6	
HOF	36.87	303	iPc	35 47.60	0.0	
			eS	41 35.00		
NPL	36.89	287	eP	35 48.90	1.0	
ALP	36.90	291	iPc	35 44.87	-3.0X	
MOX	37.01	304	iPc+	35 49.20	0.4	
	2.9s	6667.00nm				6.9mb
			i	37 00.00	355kmX	
			i	38 00.00		
			iS	41 35.00		
			iSS	44 05.00		
PRO	37.11	293	eP	35 49.10	-0.6	
AQU	37.12	290	iPc	35 50.50	0.6	
CHG	37.30	115	iPd	35 51.50	-0.1	
	1.1s	70.25nm				5.4mb X
			eS	41 12.00		
GRF	37.35	302	iPc	35 53.80	2.1	
	2.5s	3337.00nm				6.7mb
	Z 19s	113.00um				6.7Msz
			ipP	35 58.60	16km	
			esP	36 01.50		
			ePP	37 16.30		
			eS	41 48.80		
POI	37.40	290	iPc	35 52.50	0.4	
FUR	37.49	300	iPc	35 53.30	0.4	
	1.2s	4130.00nm				7.1mb
	Z 10s	159.00um				7.1MszX
			eS	41 43.00		
CTI	37.57	296	iPc	35 53.50	-0.2	
MNS	37.63	290	iPc	35 54.00	-0.1	
NB2	37.67	321	P	35 52.90	-1.4	
GAP	37.73	299	eP	35 54.60	-0.4	
			i	35 59.20	16km	
RMP	37.77	289	iPc	35 55.50	0.2	
			iPP	37 09.00		
			iS	40 46.00		
			iSS	42 26.00		
RDP	37.77	289	iPc	35 55.20	-0.2	
TIY	37.83	78	iPc	35 57.00	1.1	
			PP	37 25.00		
			S	41 38.00		
OGA	37.86	298	iPc	35 55.80	-0.4	
HAM	37.90	309	iPc	35 57.40	1.2	
GIB	37.94	283	iPc	35 55.50	-1.4	
AAE	38.09	222	iP	36 01.30	2.7	
FIR	38.31	293	eP	36 01.00	1.2	
			iS	42 20.00		
GYA	38.34	98	Pc	36 01.00	0.6	
			S	41 49.00		
SAL	38.43	296	iPc	36 01.00	0.3	
OSS	38.48	298	eP+	36 01.00	-0.5	
SAX	38.92	299	eP+	36 04.80	-0.5	
VDL	38.98	297	eP+	36 05.10	-0.5	
ERC	38.98	284	eP	36 05.00	-0.5	
TNS	39.06	303	iPc	36 06.60	0.5	
			iPcP	37 39.10		
			eS	42 16.00		
			e	44 57.40		
LLS	39.23	298	eP+	36 06.80	-0.9	
SLE	39.40	300	eP+	36 08.50	-0.4	
BUH	39.42	301	iPc	36 09.40	0.3	
TMA	39.46	297	eP+	36 08.50	-1.1	
ZUL	39.52	299	eP+	36 09.20	-0.7	
VG1	39.56	295	iPd	36 12.00	1.8	
TUP	39.69	50	ePc	36 11.90	0.8	
	1.6s	580.00nm				6.0mb
FEL	39.70	300	iP	36 10.80	-0.7	
GWF	39.77	302	iPc	36 12.40	0.4	
BNS	39.78	305	iPc	36 12.40	0.4	
	1.4s	1620.00nm				6.5mb
			iPP	37 43.00		
			iS	42 28.50		
BJI	39.84	73	Pc+	36 13.50	0.9	
	1.7s	259.00nm				5.6mb
			PP	37 45.00		
			eS	42 09.00		
KHT	39.88	119	iPc	36 14.80	1.7	
WTS	39.89	306	iPc	36 13.30	0.5	
	0.9s	700.00nm				6.3mb
			e	36 16.50	11km	
WIT	39.90	308	iPc	36 13.50	0.6	
			e	36 17.50	14km	
MMK	40.09	297	eP+	36 13.80	-1.1	
CDF	40.09	301	iPc	36 14.60	-0.1	
	1.2s	650.90nm				6.2mb
BBS	40.11	299	iP	36 14.10	-0.7	
ORO	40.17	296	eP	36 06.00	-9.4X	
ECH	40.20	301	iPc	36 15.50	-0.1	
NST	40.28	117	eP	36 18.00	1.6	
CVF	40.31	292	iPc	36 16.40	-0.1	
	1.2s	1720.20nm				6.6mb
BAF	40.38	300	iPc	36 16.60	-0.5	
KHE	40.45	359	iPc	36 19.00	1.9	
	1.7s	4800.00nm				6.9mb
			iPP	37 48.00		
DIX	40.46	297	eP+	36 17.50	-0.5	
BER	40.48	320	iPc	36 17.90	0.3	
BSF	40.52	300	iPc	36 18.00	-0.2	
ENN	40.59	305	ePc	36 18.50	-0.1	
	0.8s	279.00nm				6.0mb
			e	36 23.50	17km	
WLF	40.61	303	P	36 21.00	2.2	
			PP	37 50.00		
			S	42 16.00		
HAU	40.78	300	iPc	36 20.10	-0.1	
	1.2s	836.80nm				6.3mb
EMS	40.79	297	eP+	36 19.90	-0.7	
DBN	40.88	307	iP+	36 22.00	1.1	
	Z 19s	218.00um				7.0Msz
	N 19s	583.00um				
			e(PP)	37 45.00		
			eS	42 38.00		
			eSS	45 30.00		
DOU	41.54	304	Pc+	36 26.80	0.4	
			PP	38 01.00		
			S	42 19.00		
UCC	41.57	305	P	36 27.30	0.7	
	1.4s	882.00nm				6.3mb
			PP	38 02.00		
			S	42 22.00		
FRF	41.60	294	iPc	36 27.10	0.1	
	1.2s	1534.30nm				6.6mb
LMR	41.76	293	iPc	36 28.20	-0.1	
	1.8s	2292.90nm				6.6mb
LRG	41.83	294	iPc	36 29.10	0.2	
	1.2s	1115.80nm				6.5mb
PCT	41.85	117	ePc	36 31.00	1.7	
TIA	41.87	78	iPc	36 30.50	1.2	
			PP	38 12.00		
			S	42 48.00		
WHN	42.17	87	iPc	36 32.80	1.0	
CDR	42.19	294	iPc	36 32.00	0.2	
NNT	42.23	121	ePc	36 33.20	0.8	
LBF	42.56	299	iPc	36 34.60	-0.3	
	1.2s	1022.80nm				6.4mb
LOR	42.58	300	iPc	36 34.70	-0.3	
	1.2s	901.90nm				6.4mb
SMF	42.74	299	iPc	36 36.50	0.2	
SSF	42.86	300	iPc	36 37.00	-0.3	
	1.2s	976.30nm				6.4mb
AVF	43.03	299	iPc	36 38.70	0.1	
GRC	43.09	300	iPc	36 38.30	-0.9	
VDM	43.24	303	eP+	36 40.00	-0.3	
KBS	43.55	347	iPc	36 42.00	-0.5	
MZF	43.69	299	iPc	36 44.50	0.5	
TCF	43.92	299	iPc	36 46.20	0.3	
DL2	44.20	72	iPc	36 48.50	0.3	
			PP	38 35.00		
			S	43 22.50		
LSF	44.38	299	iPc	36 49.50	-0.2	
	1.2s	1255.30nm				6.7mb
CAF	44.39	297	iPc	36 50.30	0.5	
YAK	44.51	38	iPd	36 51.00	0.6	
	1.2s	2410.00nm				7.0mb
			iPP	38 40.00		
			iPPP	39 08.00		
			iS	43 18.00		
			iSS	46 36.00		
SNY	44.59	68	iPc	36 51.00	-0.4	
			PcP	38 36.00		
			iS	43 18.50		
TIK	44.60	24	iPc	36 51.30	0.2	
	0.9s	1370.00nm				6.8mb
	Z 14s	266.00um				7.3MszX
	N 15s	144.00um				
	E 13s	187.00um				
			ePP	38 42.00		
			eS	43 24.00		
			eSPP	43 42.00		
			eScS	46 45.00		
RJF	44.65	298	iPc	36 52.60	0.7	

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LDF	44.86	303	iPc	36	53.10	−0.4				e	38	00.50	102kmX		1.0s	240.00nm		6.2mb									
NJ2	44.91	82	iPc	36	54.00	−0.1	ALM	50.49	288	iPc	37	37.00	−0.5	Z	14s	158.00um		7.2MszX									
			S	43	35.00			1.8s		14.60nm			4.6mb X	N	14s	136.00um											
BSI	45.01	132	eP	36	53.50	−1.5		N 20s		2.10um				E	14s	137.00um											
FLN	45.05	303	iPc	36	54.60	−0.4		E 24s		1.10um						ePP	40	21.00									
	1.2s	1348.30nm			6.8mb					iPP	39	33.30				ePPP	41	36.00									
LPO	45.06	297	iPc	36	55.20	0.1				iPPP	40	35.70				iS	46	00.00									
	1.4s	1089.30nm			6.6mb					iS	44	57.10		WAK	55.48	57	eP	38	15.00	0.5							
GZH	45.25	97	iPc	36	57.40	0.5	AKU	50.66	328	iP	37	39.90	1.5				eS	45	45.00									
			PP	38	50.00			1.0s		132.00nm			5.8mb	SUT	55.66	60	eP	38	15.00	−0.9							
			S	43	26.00					i	37	44.50	15km				eS	46	03.00								
CN2	45.27	64	iPc	36	56.80	0.0	KLM	50.67	127	ePc	37	40.80	1.7	FUK	55.93	69	eP	38	17.00	−0.9							
			PP	38	37.50					e	38	34.20	245kmX	KYO	56.07	71	eP	38	19.00	0.1							
			eS	43	25.50		CRT	51.17	289	iPc	37	42.00	−0.8				eS	46	07.00									
LFF	45.29	297	iPc	36	57.30	0.4	TAM	51.40	268	iP	37	44.00	−0.9	OSA	56.07	71	Pc	38	19.00	0.1							
EKA	45.32	313	P	36	56.00	−1.0	IZU	51.75	75	eP	37	45.00	−2.1				eS	46	01.00									
	0.9s	221.00nm			6.1mb					eS	45	10.00		RMJ	56.07	58	eP	38	19.00	0.2							
GRR	45.39	303	iPc	36	57.20	−0.5	FKJ	52.11	76	eP	37	51.00	1.2				e	46	11.00									
	1.2s	1506.40nm			6.8mb					e	58	11.00		QCP	56.15	100	iP	38	35.00	15.3X							
MFF	45.40	300	iPc	36	57.30	−0.5	STS	52.29	298	iPnd	37	52.00	0.9	OSK	56.20	71	Pc	38	19.70	−0.3							
	1.2s	1208.80nm			6.7mb		KGM	52.55	126	ePc	37	53.20	−0.2				eS	46	14.00									
LPF	45.60	302	iPc	36	58.90	−0.4		1.0s		166.20nm			5.9mb	SAP	56.26	60	eP	38	19.00	−1.2							
	1.6s	1496.50nm			6.7mb					e	38	05.00	41kmX				eS	46	12.00								
MLS	45.66	295	ePc	36	59.40	−0.5				e	39	13.00		HIK	56.31	70	eP	38	22.00	1.3							
MCO	45.96	98	eP	37	04.60	2.1	REY	52.62	327	iP	37	55.10	1.8				e	46	13.00								
EPF	46.15	295	iPc	37	02.70	−1.2				i	37	58.50	11km	AIK	56.43	66	eP	38	21.00	−0.5							
HKC	46.33	97	iP	37	06.30	1.0	PPI	52.77	131	ePc	37	53.60	−1.4				eS	46	15.00								
			iSP	37	21.00	110kmX				e	47	22.00		HAK	56.43	61	eP	38	20.00	−1.4							
			i	37	32.00		FKK	52.84	75	ePc	37	55.00	−0.3				e	59	11.00								
			i	39	06.00					eS	45	32.00		GIF	56.62	70	ePd	38	23.00	0.1							
			eS	43	22.00		NGS	52.86	76	eP	37	56.00	0.5				eS	46	19.00								
ABA	46.50	286	iP	37	09.50	2.9X				eS	45	31.00		KSI	56.62	131	ePc	38	21.20	−1.9							
EBR	46.81	292	eP	37	09.00	0.1	PTO	53.03	296	iPc	37	56.50	−0.2	ASA	56.63	58	eP	38	22.00	−0.9							
			ePP	38	56.00					iPcP	39	32.00					eS	46	15.00								
			eS	43	56.00					iS	45	25.00		PGP	56.77	101	ePc	38	24.00	−0.1							
SNG	46.87	125	iP	37	09.00	−0.7	SHN	53.08	74	ePc	37	57.00	−0.1		1.5s	33.00nm			5.1mb X								
	1.0s	560.00nm			6.6mb		SFS	53.37	290	iPc	37	58.00	−1.2	TSU	56.78	70	eP	38	26.00	2.0							
			iS	43	22.00					ePcP	38	20.00		AOM	56.90	62	eP	38	22.00	−2.8							
MADF	46.92	296	eP	37	09.00	−0.9				iPP	39	57 00					eS	59	40.00								
SSE	47.12	82	Pc	37	12.20	0.7				ePPP	40	50.00		AKI	56.94	64	eP	38	24.00	−1.1							
	8.0s	10.50nm			4.0mb X					iS	45	10.00					eS	46	17.00								
N	18s	323.00um								iSS	48	08.00		NII	57.05	66	Pc	38	26.00	0.1							
			PP	39	04.00					iSSS	49	02.00		MAT	57.10	68	iPc	38	25.00	−1.4							
			S	43	57.00		KUM	53.45	75	eP	38	00.00	0.2		1.8s	1386.36nm			6.7mb								
			sS	44	08.00					eS	45	36.00					eS	46	21.00								
			SS	47	24.00		HMD	53.47	72	eP	38	01.00	1.1	MVI	57.40	82	eP	38	33.00	4.5X							
DDK	47.53	310	iPc	37	14.00	−0.5				eS	45	33.00		HAC	57.53	62	eP	38	28.00	−1.3							
	0.9s	950.00nm			6.9mb		PIP	53.55	97	eP	38	01.50	0.8	URA	57.62	60	eP	38	30.00	0.1							
DLE	47.67	310	iPc	37	14.90	−0.7	BNG	53.83	241	iPc	38	01.70	−1.1				eS	46	31.00								
	1.2s	690.00nm			6.6mb			0.7s		177.00nm			6.2mb	MRK	57.67	63	eP	38	29.00	−1.3							
DMU	47.74	311	iPc	37	15.60	−0.6	OIT	53.92	74	eP	38	05.00	1.8				eS	46	29.00								
	0.9s	570.00nm			6.6mb					eS	45	51.00		ABJ	57.76	57	Pc	38	30.60	−0.2							
MDJ	47.83	62	iPc	37	16.80	−0.2	KAG	53.93	77	eP	38	04.00	0.7				eS	46	31.00								
			PP	39	11.00		MTS	53.93	71	eP	38	04.00	0.7	YAM	57.79	65	eP	38	31.00	−0.1							
NAI	47.99	217	iPd	37	24.00	5.2X				eS	45	39.00		DDR	58.06	68	eP	38	32.90	−0.3							
	2.0s	411.76nm			6.2mb		IFR	53.95	286	iPc	38	03.00	−0.7	MIY	58.24	63	eP	38	34.00	−0.3							
QZH	48.23	91	iPc	37	20.00	−0.4	SHK	54.08	73	iPc	38	03.90	−0.5				eS	46	35.00								
			PP	39	20.00		MYZ	54.41	76	eP	38	06.00	−0.9	UTS	58.28	67	eP	38	34.00	−0.5							
			PPP	40	02.50					eS	59	14.00					e	46	38.00								
			ScP	42	38.00		LIS	54.45	294	iPc	38	07.00	−0.1	SRY	58.31	68	eP	38	39.00	4.2X							
			S	44	18.00		SEY	54.62	34	iPc	38	08.10	0.1	ISN	58.37	64	eP	38	33.00	−2.1							
			iSS	47	40.00			1.5s		900.00nm			6.6mb	OYM	58.38	68	eP	38	34.10	−1.3							
LGR	48.32	295	iPc	37	21.40	0.5		Z 14s		105.00um			7.1MszX	TSK	58.61	67	eP	38	35.30	−1.6							
			iPcP	38	47.00			N 14s		105.00um				MIT	58.78	67	eP	38	36.00	−2.0							
			iPP	39	18.50			E 14s		62.00um							eS	46	45.00								
			iS	44	23.50					ePcP	39	09.00		NEM	58.92	58	eP	38	36.00	−2.9							
ALI	48.44	289	iP−	37	21.50	−0.3				ePP	40	11.00					eS	46	40.00								
			iPP	39	16.50					eS	45	46.10		KLI	58.93	130	ePc	38	34.30	−4.9X							
			iS	44	25.30					eScS	47	53.00					e(S)	42	11.10								
MED	48.54	130	ePc	37	20.50	−2.3	BAG	54.67	98	iPc+	38	08.00	−1.2	KYS	59.13	68	eP	38	39.00	−1.6							
IPM	49.14	126	ePc	37	27.90	0.5		1.0s		230.00nm			6.2mb	KUR	59.47	55	iPc	38	42.00	−0.7							
	1.0s	297.80nm			6.3mb					iS	45	50.00			1.2s	1250.00nm			6.9mb								
			e	37	38.00	34kmX	MGD	54.89	38	iPc	38	09.80	−0.3		Z 19s	172.00um			7.2Msz								
			e	38	06.10			1.0s		480.00nm			6.5mb		N 19s	164.00um											
			e	38	46.10			Z 12s		254.00um			7.5MszX		E 19s	282.00um											
DAG	49.34	342	iPc	37	27.00	−1.2		N 14s		160.00um							ePcP	39	25.00								
	2.5s	1444.44nm			6.5mb			E 14s		145.00um							ePPP	42	21.00								
PSI	49.37	130	ePc	37	27.90	−1.2				ePcP	39	06.00					iS	46	45.00								
VLA	49.91	63	iPc	37	32.00	−1.0				ePP	40	12.00					eSSS	53	18.00								
	1.0s	970.00nm			6.7mb					ePPP	41	18.00		NPA	59.52	207	iPd	38	44.00	0.7							
			iPP	39	30.00					iS	45	48.00					eS	47	00.00								
			iS	44	46.00					iScS	47	54.00		AVY	60.73	197	iPc	38	51.20	−0.5							
VAL	50.21	309	iP	37	33.00	−2.2	OKA	54.91	72	ePc	38	10.00	−0.5	GDH	61.36	339	iPc	38	54.20	−1.1							
			iS	44	44.00		TKM	55.18	72	eP	38	12.00	−0.6		1.0s	170.00nm			6.1mb								
ANP	50.34	89	iP+	37	38.00	1.3				e	45	52.00			Z 20s	76.60um			6.9Msz								
			iS	44	42.00		HIM	55.40	71	eP	38	14.00	−0.1	PCR	61.64	188	eP+	38	58.00	0.0							
TOL	50.37	293	iP+	37	36.00	−0.7	YSS	55.47	55	iPc	38	14.70	0.2	SKR	61.70	46	iPc	38	55.60	−2.3							

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		0.9s	310.00nm		6.5mb		PMR	75.05	15	iP	40	20.80	0.2		BUT	93.95	357	eP	41	58.40	1.6
	Z	13s	162.00um		7.4MszX					pP	40	24.80	13km		LRM	94.14	357	iPc	41	58.50	0.8
	N	13s	127.00um				STJ	75.71	321	eP	40	24.00	-0.6		ALOA	94.32	100	eP	41	59.00	0.5
	E	13s	151.00um					0.9s	477.00nm			6.6mb			RSSD	95.16	351	iPc	42	03.20	0.8
			iS	47	24.00		SEK	75.96	212	iPc	40	25.00	-1.3			1.3s	556.45nm			6.8mb	
PET		61.89	43 iPc	38	56.00	-3.1X	SCH	76.08	333	iPc	40	26.00	-0.6					pP	42	07.30	13km
		1.0s	370.00nm		6.5mb			0.8s	859.00nm			6.9mb			COR	95.24	5	iPd	42	05.00	2.5
			ePP	41	16.00		YKA	77.50	359	eP	40	34.70	0.4		BLA	95.97	332	eP+	42	07.50	1.5
			ePPP	42	44.00		RSNT	77.51	359	iPc	40	34.00	-0.3			Z 22s	101.48um			7.3Msz	
			eS	47	20.00			1.3s	1475.81nm			6.9mb			BDW	97.02	355	iPc	42	11.30	0.4
			eSS	51	24.00					pP	40	39.60	18km			1.1s	116.94nm			6.4mb	
			eSSS	54	10.00		YKC	77.51	359	iPc	40	34.40	0.0					pP	42	16.70	17km
ILT		62.53	22 iPc	39	02.00	-1.1		0.5s	275.00nm			6.6mb			CTA	97.55	110	iPd	42	14.90	1.8
	Z	14s	260.00um		7.6MszX		PCA	78.05	12	eP	40	38.80	1.3			1.2s	50.78nm			6.0mb	
	N	14s	134.00um				TLE	78.18	108	ePd	40	42.00	3.2X					i	45	07.00	
	E	14s	240.00um				NAU	79.17	132	iPc	40	44.90	0.9					i(PP)	46	10.00	
			iPcP	39	40.00		FCC	79.49	348	iPc	40	45.30	0.0					iS	52	50.00	
			iPP	41	21.00			0.8s	571.00nm			6.6mb						i	54	58.00	
			iPPP	42	48.00		MBL	80.64	128	iPd	40	51.90	0.0		FVM	98.43	339	eP	42	16.80	-0.3
			iS	47	30.00		GRM	80.79	211	iPc	40	52.50	0.0			1.0s	80.00nm			6.3mb	
			eSPP	47	52.00			0.6s	286.67nm			6.5mb						pP	42	22.00	16km
			eScS	48	56.00			Z 18s	18.04um			6.5Msz			RSCP	99.20	335	e(P)	42	20.90	0.3
			eSS	51	40.00		MTN	81.98	114	eP	40	58.00	-1.0			0.7s	27.14nm			6.0mb	
TET		62.65	213 iPc	39	04.00	-0.5	JAY	82.00	100	ePc	41	04.00	4.7X		WDC	99.28	5	eP	42	21.00	0.1
			ePP	41	29.00		SUR	82.37	215	iPc	41	01.90	0.9					ePP	47	24.00	
			iS	47	37.00			1.1s	405.06nm			6.4mb			BMN	99.61	0	iP	42	24.10	1.5
MBC		63.68	1 iPc	39	20.30	9.7X		Z 20s	90.28um			7.1Msz				1.3s	154.08nm			6.4mb	
BKB		63.87	117 ePd	39	17.30	4.7X	HNME	83.53	328	eP	41	07.90	1.2					pP	42	30.20	19km
MTD		64.06	214 iPc	39	13.00	-0.9	MEK	84.07	132	eP	41	09.50	-0.1		GLD	99.61	351	eP	42	23.20	0.5
DAV		64.36	103 iP+	39	15.00	-0.9	TZZ	84.19	102	eP	41	11.30	0.7			1.5s	428.13nm			6.8mb	
TEN		64.71	287 iPd	39	19.60	1.6	FFC	84.48	352	ePc	41	11.60	0.3		GOL	99.68	351	eP	42	23.00	-0.1
			iPP	41	39.50			0.9s	214.00nm			6.4mb				1.2s	117.21nm			6.3mb	
			iPPP	43	03.00		WWW	84.91	99	eP	41	15.30	1.2			Z 19s	41.98um			7.0Msz	
			eS	47	23.00		BNH	86.13	329	iP	41	21.00	1.2		DUG	99.77	357	eP	42	24.50	1.2
			iScS	48	53.40		BAL	86.17	136	eP	41	19.40	-0.6		HNR	101.04	93	ePdiff	42	28.00	-1.1
			eSS	51	30.10		MNT	86.25	331	iPc	41	21.00	0.7					ePP	46	40.00	
KRI		64.97	216 iPc	39	19.00	-0.8		1.0s	310.00nm			6.5mb						eSKS	53	08.00	
			iS	48	03.00		MOM	86.76	95	eP	41	24.00	0.7		RLO	101.31	342	ePdiff	42	29.60	-0.3
BRW		65.05	13 iPc	39	19.50	-0.1	EDM	86.77	358	eP	41	23.50	0.7		MNA	101.59	1	ePdiff	42	32.40	1.1
SJI		65.38	125 eP	39	21.30	-1.1	RSON	86.98	346	iPc	41	23.40	-0.5		GBO	101.65	342	e(Pdif	42	28.50	-2.9X
TRT		65.90	125 ePc	39	23.90	-1.8		0.8s	103.52nm			6.1mb			ACO	101.67	346	e(Pdif	42	31.70	0.2
DNP		68.27	123 ePd	39	40.50	-0.3				pP	41	27.50	13km		TUL	101.73	343	ePdiff	42	32.30	0.6
BUL		68.32	215 iPc	39	40.00	-1.1	MUN	86.99	137	eP	41	23.00	-1.0			1.1s	240.70nm			6.7mb	
		0.6s	222.33nm		6.5mb		OTT	87.10	332	ePc	41	25.10	0.6			Z 20s	57.20um			7.1Msz	
	Z	18s	96.22um		7.1Msz			0.9s	319.00nm			6.6mb			STK	101.91	122	ePdiff	42	34.00	1.4
	N	18s	74.91um				RSNY	87.40	331	eP	41	26.80	0.8		BKS	101.99	5	iPdiff	42	41.50	8.7X
	E	18s	164.95um					0.9s	350.42nm			6.6mb				1.0s	109.00nm			6.4mb	
			iPP	42	08.00					pP	41	30.90	13km			Z 20s	15.00um			6.5Msz	
			iS	48	46.00		KLB	87.50	136	eP	41	25.60	-0.8			N 20s	37.00um				
MKS		68.52	117 ePd	39	44.00	1.7	APH	88.00	331	eP	41	29.80	0.9			E 20s	48.00um				
KIC		69.25	260 iPc	39	45.20	-1.7	NWAO	88.27	137	eP	41	29.00	-1.1					ePPS	56	00.00	
			S	48	53.20		LHC	88.36	342	ePc	41	30.30	-0.2					eSS	01	20.00	
FRB		69.48	339 ePc	39	47.00	-0.6		1.1s	228.00nm			6.4mb			JAS	102.01	3	ePdiff	42	33.80	0.8
SMY		69.68	37 eP	39	48.50	-0.5	PHC	88.84	7	eP	41	33.50	0.8					ePKKP	59	05.00	
	Z	20s	120.00um		7.1Msz			1.0s	340.00nm			6.6mb						eP'P'	07	00.00	
INK		70.95	7 iPc	39	56.40	0.0	WRA	89.10	117	Pd	41	38.30	4.0X		ADE	102.07	126	ePdiff	42	35.00	1.7
		0.8s	610.00nm		6.8mb			1.1s	217.60nm			6.3mb				1.0s	40.00nm			6.0mb	
COL		72.29	13 iP	40	04.70	0.2	WB2	89.11	117	iPc	41	33.90	-0.5		RMU	102.78	355	ePdiff	42	37.90	1.3
			e	49	32.00					eS	43	54.70			BHO	102.98	342	e(Pdif	42	36.00	-1.3
FBA		72.29	13 iPc	40	04.50	0.0				iPcP	45	19.80				1.6s	243.60nm			6.7mb	
WSI		72.35	120 ePd	40	03.50	-2.1	LAT	89.43	99	eP	41	31.00	-5.0X		CLC	104.21	1	ePdiff	42	49.00	6.1X
TTA		72.36	18 eP	40	05.40	0.3	SES	89.51	356	iPc	41	36.10	0.1		ISA	104.35	2	ePdiff	42	50.00	6.5X
SLR		73.40	213 iPc+	40	11.00	-0.6		0.7s	674.00nm			7.0mb			ALO	104.50	351	ePdiff	42	45.00	0.6
		1.4s	779.07nm		6.6mb		PAF	89.51	176	eP	41	40.00	4.5X			Z 19s	53.82um			7.1Msz	
	Z	18s	53.26um		6.9Msz		KVG	89.69	94	eP	41	37.50	0.2		GSC	104.73	0	ePdiff	42	46.00	0.8
AAI		73.55	110 eP	40	11.00	-1.6	PAL	90.20	329	eP	41	40.00	0.7		FDF	104.83	304	ePdiff	42	47.50	1.5
EVA		73.76	212 iPc	40	13.20	-0.5	PNT	90.69	2	eP	41	42.00	0.6		SJG	105.26	310	e(Pdif	42	48.00	0.1
		1.5s	733.33nm		6.5mb			1.0s	408.00nm			6.7mb				Z 20s	37.59um			6.9Msz	
BPI		73.89	213 iPc	40	13.30	-1.2				pP	42	05.00	84kmX		SBB	105.33	1	ePdiff	42	51.00	3.1X
		0.8s	249.25nm		6.3mb		ELF	90.94	335	P	41	43.00	0.3		SYP	105.44	3	ePdiff	43	02.00	13.5X
KSR		74.09	214 iPc	40	15.20	-0.5	LDN	91.03	335	P	41	23.00	-20.1X		MWC	105.79	1	ePdiff	42	54.00	3.9X
		1.0s	228.00nm		6.2mb		RXF	91.17	359	iPc	41	44.00	0.2		PAS	105.87	1	ePdiff	43	06.00	15.8X
ADK		74.37	34 eP	40	17.00	0.2	YKM	91.18	359	iP	41	44.40	0.5		PAS	105.87	1	ePKP	47	16.00	13.2X
			pP	40	23.80	22km	PGC	91.19	5	eP	41	44.50	0.8					e	49	00.00	
KUG		74.90	118 eP	40	22.20	1.8	DLA	91.32	335	P	41	43.00	-1.4		PLM	106.67	0	ePdiff	42	58.00	4.0X
GUMO		74.91	85 eP+	40	20.00	-0.5	PMG	91.33	101	eP+	41	44.00	-0.8		BRS	106.75	112	iPdiff	42	58.50	4.2X
		1.2s	300.00nm		6.2mb		ASPA	91.37	120	iPc	41	45.00	0.2					eS	53	34.00	
PJG		74.91	85 eP	40	19.40	-1.2	LDM	91.58	359	iPc	41	46.10	0.5		SOB1	106.76	272	ePdiff	43	11.70	17.1X
GUA		74.98	85 eP+	40	20.00	-0.9	RAB	91.78	94	eP	41	46.00	-0.9		GLA	106.95	358	ePdiff	43	03.00	7.9X
		1.3s	307.69nm		6.2mb		NEW	91.78	0	iPc	41	47.50	1.0		BAR	107.34	0	ePdiff	43	05.00	8.2X
	Z	21s	45.30um		6.7Msz			Z 22s	50.00um			6.9Msz			ATX	107.58	343	(Pdiff	43	00.00	2.1X
			eS	49	55.00					pP	41	51.00	11km		MAW	107.62	180	ePKP	47	10.00	5.0X
PME		75.04	15 iPc	40	20.10	-0.5	LHD	91.78	359	iP	41	46.80	0.2		CAN	108.88	120	ePKP	47	11.00	2.5
		1.0s	550.00nm		6.5mb		CLX	91.82	359	iPc	41	47.80	0.9		SYO	110.46	189	ePKP	47	10.40	0.0
	Z	20s	85.00um		7.0Msz		AAM	92.48	336	ePc	41	49.90	0.1		CAR	111.67	306	e(Pdif	43	18.00	1.4
BFS		75.05	213 iPc	40	20.70	-0.5	UTO	93.04	336	iPd	41	47.50	-4.9X		TAU	112.23	128	ePdiff	43	21.00	2.7X
		1.0s	570.00nm		6.6mb		ISO	93.21	114	eP	41	53.00	-0.3					e	57	29.00	

e 58 49.00
NOU 113.81 100 iPKPc 47 19.50 1.3
TOV 113.98 308 ePKP 47 20.00 1.1
LGN 114.57 310 e(PKP)47 17.00 -2.9X
SDV 115.19 308 ePKP 47 02.20 -19.1X
UAV 115.72 308 ePKP 47 23.00 0.6
BAO 116.15 271 e(PKP)47 24.00 1.0
RDJ 116.78 262 ePdiff43 42.00 3.0X
NVL 116.79 197 ePKP 47 24.00 1.5
1.8s 300.00nm
Z 18s 20.00um 6.8Msz
N 18s 13.00um
E 18s 13.00um
ePP 48 35.00
ePPP 51 03.00
eSKS 54 07.00
eSP 58 10.00
BMA 117.37 263 e(PKP)47 27.00 1.9
IIC 118.05 341 PKP 47 31.50 4.7X
IIP 118.37 341 ePKP 47 31.00 3.6X
IIT 118.52 340 PKP 47 32.60 5.0X
OXM 118.60 342 PKP 47 28.00 0.1
TPM 118.75 341 PKP 47 29.00 1.1
CSN 118.92 334 PKP 47 29.00 0.9
CR6 118.97 334 PKP 47 29.60 1.2
CR5 119.07 334 PKP 47 29.00 0.4
CZC 119.13 334 PKP 47 30.00 1.5
COM 119.25 333 ePKP 47 30.00 1.0
III 119.44 341 PKP 47 30.00 0.7
VAO 119.68 264 ePKP 47 31.10 1.6
e 47 34.20
e 47 36.30
e 48 55.80
FUO 119.76 309 ePKP 47 31.00 0.8
VHO 119.80 338 PKP 47 34.00 4.0X
UPA 120.15 316 i(PKP)47 32.00 1.5
1.0s 40.00nm
Z 20s 12.41um 6.5Msz
i 48 40.00
BOG 120.63 308 iPKP 47 32.00 0.1
iPP 48 59.00
BOG 120.63 308 ePdiff44 00.00 3.3X
CRZ 124.89 108 ePKP 47 45.00 6.0X
PSO 125.30 309 iPKP 47 47.50 6.5X
AFI 125.33 78 PKP 47 43.00 2.5
e(S) 49 28.00
e 51 00.00
SPA 130.15 180 ePKP 47 39.10 -9.2X
1.0s 4.00nm
Z 20s 27.48um 6.9Msz
e 50 00.00
GNZ 130.60 110 PKP 47 48.60 -1.3
SBA 131.89 164 ePKP 47 50.50 -0.7
S 02 04.40
LPB 131.89 285 PKP 47 54.00 0.5
LPB 131.89 285 Pdiff 44 46.00 -0.9
YJA 133.35 277 ePKPd 47 46.60 -9.6X
HJA 133.87 276 ePKPc 47 46.00 -10.5X
LPA 133.92 257 ePKP+ 47 58.00 1.7
Z 20s 36.88um 7.1Msz
HUA 134.04 296 iPKPc 47 58.70 1.1
iS 51 31.00
SLA 134.77 274 e(PKP)47 46.00 -12.4X
e 50 31.50
NNA 135.05 298 ePKP 47 50.60 -8.5X
0.6s 106.67nm
e 50 56.00
TCA 137.38 265 e(PKP)47 50.00 -13.1X
VBA 138.14 255 e(PKP)47 53.00 -11.3X
CFA 140.29 267 ePKPd 48 02.10 -6.3X
RTLL 140.34 268 ePKP 48 01.00 -7.5X
RTCV 140.63 267 ePKPd 48 00.80 -8.2X
RTCB 140.66 268 ePKP 48 01.70 -7.4X
TLL 141.59 271 ePKP 48 03.00 -8.0X
RFA 141.78 263 ePKPd 48 03.80 -7.2X
JACH 142.55 267 iPKP 48 07.50 -4.9X
BACH 142.75 266 iPKP 48 08.30 -4.4X
PEL 142.82 266 iPKPc 48 07.00 -5.8X
i 48 10.60
PCH 142.88 265 ePKP 48 07.50 -5.4X
SAN 142.93 266 ePKP 48 10.00 -2.9X
ROCH 142.99 267 ePKP 48 07.50 -5.8X
RUV 143.34 56 ePKP 48 14.00 0.0
0.8s 70.00nm
PPN 143.72 61 ePKP 48 14.00 -0.6
0.8s 110.00nm
CON 146.00 262 iPKP 48 16.50 -1.5
TMU 146.26 258 iPKPd 48 19.70 1.4
TBI 147.62 68 iPKP 48 25 40 4.5X
1.0s 960.00nm
RKT 156.89 48 ePKP 48 41.00 6.7X
1.2s 50.00nm
S.D. = 1.0 on 486 of 575 obs.

MAR 24, 1984 09h 43m 59.38± 0.30s
44.197 N ± 1.4km 148.164 E ± 1.4km
DEPTH = 17.6 ± 2.1 km
6.3mb (100 obs.) 7.1Msz (28 obs.)
KURIL ISLANDS (221)
Felt (V) at Yuzhno-Kurilsk and (IV) on Shikotan. Felt (II JMA) at Nemuro, Obihiro and Urakawa, Hokkaido and at Hachinohe and Miyako, Honshu. Fourteen cm. tsunami at Nemuro, Hokkaido. Possible multiple event.

SHO 1.04 252 iPnd 44 19.50 1.0
iSn 44 34.00
KUR 1.06 349 iPnc 44 22.70 3.9X
0.3s 9880.00nm
iSn 44 28.50
YUK 1.70 265 iPnd 44 29.60 1.2
2.0s 183.00nm
eSn 44 52.10
NEM 2.06 246 P 44 33.40 -0.2
eS 45 01.00
KUSJ 2.74 248 P 44 41.90 -1.4
ABJ 2.80 268 P 44 46.80 2.7
eS 45 26.00
e 46 10.10
KUS 3.00 247 P 44 47.80 0.9
e 45 34.00
OBI 3.81 252 eP 45 01.00 2.5
eS 45 52.00
ASAJ 3.97 271 P 45 04.70 3.9X
HOOJ 4.00 245 P 45 02.50 1.5
ASA 4.20 266 P 45 09.20 5.2X
S 46 07.50
URA 4.43 244 P 45 09.70 2.4
iS 46 06.90
RMJ 4.71 269 P 45 17.60 6.3X
iS 46 16.90
YSS 4.75 308 iPnd 45 14.30 2.5
0.5s 560.00nm
Z 14s 2680.00um
N 13s 1917.00um
E 13s 1729.00um
WAK 4.78 287 P 45 18.50 6.3X
SAP 5.09 259 P 45 21.60 5.0X
S 46 23.50
MRRJ 5.47 254 P 45 23.50 1.5
HAK 5.93 249 P 45 29.40 1.0
eS 46 44.00
SUT 5.93 259 P 45 33.20 4.7X
e 46 47.10
HAC 6.13 236 P 45 30.20 -1.1
iS 46 47.80
i 47 08.10
AOM 6.41 241 P 45 35.40 0.1
eS 46 46.00
UGL 6.43 322 iPnd 45 39.50 3.9X
MIY 6.48 228 P 45 33.10 -3.2X
S 46 53.10
AOMJ 6.82 240 P 45 40.50 -0.5
MRK 6.88 232 P 45 39.60 -2.3X
S 47 06.00
OFU 7.04 225 P 45 41.10 -3.0X
S 47 07.90
OFUJ 7.06 226 iP 45 40.60 -3.7X
eS 47 09.00
AKI 7.49 236 P 45 52.20 1.8
S 47 22.80
HJH 7.69 234 P 45 51.10 -2.1X
ISN 7.74 224 P 45 49.70 -4.1X
S 47 24.20
SEN 8.07 225 eP 45 53.00 -5.5X
S 47 33.80
SKH 8.13 232 P 45 58.20 -1.2
YAM 8.36 227 P 45 59.10 -3.4X
SKR 8.41 37 iPn 46 04.70 1.4
0.5s 390.00nm 6.9mb
Z 17s 2058.00um 6.6Msz
iSn 47 48.00
YAMJ 8.59 228 P 46 02.20 -3.5X
FKS 8.67 225 eP 46 05.00 -1.8
eS 47 48.00
ONA 9.10 220 (P) 46 10.00 -2.8X
e 47 54.00
SHR 9.29 223 eP 46 11.00 -4.4X
NII 9.31 231 eP 46 16.00 0.3
eS 48 08.00
AIK 9.70 234 P 46 19.10 -1.9X
eS 48 12.00
MIT 9.77 220 P 46 19.00 -3.0X
eS 48 03.00
NIIJ 9.83 228 P 46 19.60 -3.2X
UTS 9.92 222 P 46 21.30 -2.7X
eS 48 09.00
OKH 9.97 342 iPnc 46 25.00 0.3
0.5s 340.00nm 7.0mb
KAKJ 10.05 220 P 46 21.00 -4.8X
eS 48 06.00
TSK 10.07 220 eP 46 20.50 -5.7X
CHO 10.15 216 eP 46 23.00 -4.2X
eS 48 16.00
NKL 10.20 334 ePn 46 30.30 2.5X
1.3s 2900.00nm 7.5mb X
TKD 10.33 230 eP 46 30.00 0.3
iS 48 30.50
MAE 10.43 225 P 46 28.80 -2.3X
eS 48 30.00
KMG 10.47 223 eP 46 30.00 -1.6
eS 48 31.00
TOK 10.67 220 eP 46 34.00 -0.3
eS 48 37.00
DDR 10.68 223 eP 46 28.30 -6.3X
NGN 10.69 229 eP 46 33.00 -1.6
e 49 21.90
CHJJ 10.74 224 P 46 30.80 -4.5X
eS 48 28.00
MAT 10.77 228 iP 46 32.70 -3.1X
S 48 40.00
KYS 10.90 217 eP 46 28.30 -9.2X
WAJ 10.91 235 P 46 36.70 -0.9
S 48 49.20
YOK 10.92 220 P 46 46.00 8.3X
eS 48 45.00
SRY 10.96 221 eP 46 33.10 -5.2X
MTMJ 10.96 230 P 46 35.40 -3.0X
OYM 11.12 221 eP 46 36.30 -4.3X
TAT 11.20 218 eP 46 51.00 9.4X
e 48 53.00
TOY 11.20 232 eP 46 40.00 -1.6
PET 11.22 34 iPnd 46 42.00 0.3
0.7s 40.00nm 5.8mb
Z 18s 670.00um
eSn 48 54.00
KOF 11.26 224 eP 46 39.00 -3.4X
eS 48 42.00
AJI 11.50 220 eP 46 42.00 -3.7X
eS 48 45.00
MIS 11.52 221 eP 46 50.00 4.0X
TKY 11.58 230 eP 46 45.00 -1.8
KTJ 11.59 220 P 46 42.50 -4.3X
eS 48 48.00
OSH 11.60 219 eP 46 44.50 -2.6X
KAN 11.63 233 P 46 47.00 -0.5
IIDJ 11.73 226 P 46 45.80 -3.1X
IID 11.75 226 eP 46 48.00 -1.1
S 49 03.70
SHZ 11.89 223 eP 46 50.00 -0.9
FUK 12.22 232 eP 46 55.50 0.1
GIF 12.40 229 ePc 46 55.00 -2.8X
eS 49 36.00
HMM 12.43 224 eP 47 07.00 8.7X
e 49 37.00
NAG 12.47 227 eP 46 56.00 -2.7X
eS 49 38.00
TK04 12.62 223 eP 47 02.00 1.4
TSRJ 12.73 231 eP 47 00.00 -2.2X
TK03 12.75 222 P 47 00.40 -2.0X
HIK 12.78 230 eP 47 03.00 0.2
eS 49 30.00
HJJ 12.86 213 eP 47 06.00 2.1
TK02 13.03 222 eP 47 04.00 -2.0X
TSU 13.06 227 eP 47 14.00 7.4X
MZH 13.17 233 eP 47 07.00 -1.0
KYO 13.25 230 eP 47 07.00 -2 1X
eS 49 46.00
TK01 13.26 222 eP 47 06.00 -2.9X

24d 09h

MDJ	13.29	278	iPc	47	10.00	0.4		N	17s	838.00um								sP	51	13.00		
			iS	49	43.00			E	17s	578.00um								S	56	23.50		
TYK	13.40	234	eP	47	09.00	-2.0X	FKJ	18.95	239	eP	48	22.00	0.2				GZH	35.45	245	eP	50	55.50	-1.1
			eS	49	58.00					eS	52	09.00					HKC	35.47	243	iP	50	59.00	2.3
NAR	13.44	229	eP	47	10.00	-1.6	TAJ	19.09	231	eP	48	23.00	-0.5				GTA	35.94	280	P	51	01.30	0.5
OSK	13.59	229	eP	47	10.00	-3.6X				eS	52	12.00					MCO	35.99	244	eP	51	03.20	2.0
			eS	49	49.00		SMY	19.12	54	P	48	28.80	5.1X				BAG	36.20	229	iPc+	51	02.00	-1.2
OSA	13.62	230	eP	47	11.00	-2.9X	DL2	20.51	264	iPc	48	38.50	-0.5				UER	36.28	301	iPc	51	03.00	-0.3
			eS	49	51.00		NZJ	21.73	230	P	48	52.50	1.0					1.2s		300.00nm			6.0mb
OWA	13.72	227	eP	47	14.00	-1.3				S	52	54.30						Z 11s		82.00um			6.7MszX
			e	50	24.00		MVI	22.90	222	eP	49	05.00	1.9					N 11s		59.00um			
TOTJ	13.76	235	P	47	14.80	-1.0				eS	53	20.00						E 11s		68.00um			
TOT	13.79	236	eP	47	15.00	-1.2	NGO	23.96	230	P	49	15.70	2.2				TTA	36.62	39	P	51	06.00	-0.1
			eS	49	53.00					S	53	33.60					SVW	36.72	42	P	51	07.50	0.5
KOB	13.80	231	eP	47	16.00	-0.3	BJI	24.00	271	eP	49	14.00	0.2				CD2	37.18	264	Pc	51	11.00	-0.2
			e	50	16.00			E 21s		680.00um							LGP	37.34	222	eP	51	14.00	1.5
SAI	13.85	240	eP	47	11.00	-6.0X				eS	53	34.00						1.5s		5.50nm			4.1mb X
			S	49	52.40		NAH	24.42	229	P	49	19.50	1.6				MAN	37.39	227	iP	51	15.80	2.9
WKYJ	13.92	229	P	47	15.10	-2.9X				S	53	48.00						1.0s		5.50nm			4.3mb X
HIM	13.96	233	eP	47	18.00	-0.5	ADK	24.54	59	P	49	20.90	2.1				QCP	37.41	227	iP	51	21.00	7.9X
			eS	50	09.00		KMJ	24.81	231	P	49	22.00	0.3				GYA	37.74	256	Pc	51	15.80	-0.2
WKY	14.15	230	eP	47	19.00	-1.9X				S	53	52.60					BRW	37.78	26	eP	51	14.30	-1.4
SUM	14.21	231	eP	47	17.70	-4.0X	TIA	24.90	262	Pc	49	22.50	0.0				IMA	37.90	34	P	51	17.30	0.4
SHJ	14.42	226	P	47	34.50	9.9X				S	53	49.00					KDC	38.46	48	P	51	20.20	-1.3
			eS	50	35.00		SSE	24.92	247	Pc+	49	23.10	0.4				NRI	39.03	331	iPc	51	22.90	-3.3X
YONJ	14.44	236	P	47	23.60	-1.2		Z 18s		671.00um			7.2Msz					1.7s		80.00nm			5.1mb X
MTS	14.50	238	eP	47	24.00	-1.5		N 19s		968.30um										esP	51	36.00	
			eS	50	10.00					i	49	25.50								iPP	52	55.00	
OKA	14.52	234	ePc	47	24.00	-1.8				i	49	40.00								ePPP	53	20.00	
			eS	50	39.00					iS	54	05.00								eS	57	18.00	
TKS	14.59	231	eP	47	25.00	-1.8	BOD	25.04	315	eP	49	21.90	-1.8				PMR	39.84	42	eP	51	32.60	-0.3
			(S)	50	14.00			0.9s		90.00nm			5.4mb				COL	40.30	36	iP	51	37.80	1.0
TKM	14.70	233	eP	47	26.00	-2.2X	NJ2	25.91	252	iPc	49	32.00	0.0							eS	57	48.00	
			eS	50	09.00		MYK	26.88	231	eP	49	44.00	3.0X				FBA	40.30	36	P	51	37.00	0.2
TKSJ	14.95	232	P	47	28.40	-3.0X				eS	54	18.00					QIZ	40.62	244	iPc	51	41.00	1.1
SHK	15.36	236	ePd	47	35.00	-1.8	HHC	27.04	276	iPc	49	43.30	0.8							S	57	49.50	
MRT	15.42	230	eP	47	46.00	8.4X	TIY	27.59	269	iPc	49	47.00	-0.5				ELT	40.63	306	iPc	51	37.80	-1.8
			eS	50	47.00		ISI	27.86	233	eP	49	50.00	0.1					1.4s		310.00nm			5.8mb
HMD	15.48	239	eP	47	39.00	0.7				e	55	05.00					TOA	41.19	41	P	51	44.90	0.7
			S	50	45.90		BTO	28.23	276	iPc	49	53.00	-0.3				KMI	41.33	258	Pc	51	45.50	-0.4
KOC	15.55	232	eP	47	38.00	-1.3	ANP	28.78	238	iP+	49	59.00	0.7					E 16s		222.90um			
			eS	50	57.00					iS	55	02.00								sP	51	59.00	
HIR	15.62	236	eP	47	39.00	-1.1	TIK	29.06	348	ePc	49	56.50	-3.8X							S	57	45.00	
			eS	50	36.00			Z 17s		500.00um			7.2MszX				DAV	41.90	215	iPc+	51	49.00	-1.4
MTY	15.78	234	eP	47	46.00	3.8X		N 17s		435.00um							NVS	41.96	309	iPc	51	50.00	-0.4
			e	51	05.00			E 18s		178.00um								1.6s		120.00nm			5.4mb
MGD	16.01	5	ePc	47	45.00	0.0				epP	50	02.50	21kmX							iS	58	16.00	
	1.2s	690.00nm				5.7mb				esP	50	12.00					WMO	42.61	292	iPc	51	57.00	0.9
	Z 17s	723.00um				6.2MszX				ePPP	51	09.00								S	58	12.00	
	N 18s	785.00um								eS	54	45.00					PPR	42.72	226	eP	52	04.00	6.9X
	E 15s	275.00um								esS	55	02.00					PCA	44.35	43	P	52	09.90	-0.1
			iS	50	48.00		NKI	29.36	57	P	50	05.50	2.3				SEM	45.01	303	ePc	52	14.10	-1.2
CN2	16.35	277	iPc	47	47.00	-2.4	ILT	29.43	25	iPd	50	01.50	-2.1					6.7s		********nm			7.0mb X
UWA	16.35	233	eP	47	48.00	-1.5		2.2s		1800.00nm			6.5mb							isP	52	28.00	
ASZ	16.47	231	eP	47	55.00	4.0X		Z 18s		950.00um			7.5Msz							eSP	58	55.40	
			eS	50	59.00			N 18s		545.00um										eScS	02	07.90	
SHNJ	16.59	238	P	47	51.60	-0.9		E 18s		380.00um							INK	45.66	31	ePc	52	19.90	-0.3
SHN	16.80	238	ePc	47	55.00	-0.2				iPPP	51	18.50						0.6s		396.00nm			6.5mb
			eS	51	08.00					iS	54	51.00					MOM	46.04	181	eP	52	23.00	-0.7
OIT	16.89	235	eP	48	01.00	4.7X				isS	55	03.00					KVG	46.62	176	eP	52	28.00	-0.3
			eS	51	19.00					iSSS	56	53.00					KHE	46.76	347	iP	52	26.00	-2.8
NOB	17.32	234	eP	48	01.00	-0.7	WHN	29.90	254	iPd	50	07.60	-0.6					Z 19s		730.00um			7.7Msz
			eS	51	24.00		IRK	29.91	301	iPc	50	06.00	-2.2							iPP	54	20.00	
FKK	17.40	238	P	48	02.60	-0.1		1.4s		230.00nm			5.8mb							iScS	02	20.00	
			eS	51	24.00			Z 16s		226.00um			6.9MszX				LSA	46.91	272	Pc	52	31.50	0.4
ASJ	17.47	235	P	48	08.40	4.7X		N 16s		539.00um										S	59	23.50	
			S	51	40.90			E 12s		460.00um							KKM	47.18	226	ePd	52	44.40	11.5X
IZU	17.67	242	eP	48	06.00	0.0				ePP	51	00.00						1.4s		253.50nm			
			eS	51	31.00					ePPP	51	20.00					SIT	47.66	46	(P)	52	36.70	0.6
SAG	17.67	238	eP	48	07.00	0.9				eS	55	03.00					CHG	48.11	254	iPc+	52	39.60	-0.5
			eS	51	30.00					esS	55	18.00						0.7s		147.26nm			6.1mb
KUM	17.73	236	eP	48	07.00	0.1	GUMO	30.63	186	e(P)	50	13.00	-1.8							eS	59	44.00	
			eS	51	37.00		GUA	30.68	186	e(P)	50	13.50	-1.7				MBC	48.16	19	eP	52	38.00	-1.8
CBI	17.74	198	eP	48	08.00	1.0				e(S)	54	57.00						0.7s		104.00nm			6.0mb
			S	51	34.80		ZAK	30.69	298	eP	50	13.80	-1.1				WITU	48.68	178	eP	52	57.00	12.6X
KUMJ	17.86	235	P	48	09.50	1.1		3.0s		1390.00nm			6.3mb				BDT	49.14	253	iPc	52	50.00	2.0
MYZ	17.96	233	eP	48	09.00	-0.7				ePP	51	14.00						1.0s		144.20nm			6.0mb
			e	51	51.00					eS	55	08.00					MDG	49.27	183	eP	52	48.00	-0.9
SNY	18.12	271	iPc	48	10.50	-1.1	QZH	30.77	241	iPc	50	16.00	0.1				PRZ	49.34	294	iPd	52	50.00	0.4
NGS	18.29	237	P	48	14.00	0.2				iS	55	13.00						1.4s		750.00nm			6.5mb
			eS	51	52.00		XAN	31.82	265	eP	50	23.80	-1.4					Z 19s		1357.00um			8.0Msz
KAG	18.71	234	eP	48	19.00	0.1	MOY	32.00	300	eP	50	25.30	-1.2					E 19s		1407.00um			
			eS	52	08.00			1.2s		370.00nm			6.2mb							eS	59	56.00	
KAGJ	18.81	232	P	48	21.90	1.8	SDN	34.22	52	P	50	45.70	0.0				NST	49.47	250	iPc	52	52.00	1.4
SEY	18.90	6	ePc	48	19.70	-1.3	LZH	34.49	272	iPc+	50	48.00	-0.5				TZZ	49.63	189	eP	52	49.00	-2.9X
	1.0s	680.00nm				5.8mb		7.0s		8506.00nm			6.8mb X				TLG	49.65	295	iPc	52	54.00	2.2
	Z 18s	1004.00um				6.5Msz				pP	51	01.50	52kmX					1.1s		1220.00nm			6.8mb

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     Z  16s   439.00um           7.6MszX
                iS     00 00.00
HON    49.69  99 P     53 02.00   9.8X
AAA    49.94 295 iPc   52 55.40   1.4
     Z  15s   486.00um           7.6MszX
     N  15s   720.00um
     E  15s   532.00um
                iS     00 04.00
BGA    50.51 171 eP    52 57.50  -1.1
LAT    50.62 181 eP    52 58.00  -1.3
PAA    50.70 171 e(P)  53 01.00   1.0
NRN    51.42 294 eP    53 05.10  -0.5
                eS     00 24.00
FRU    51.65 296 iP    53 07.80   0.8
       8.0s  *******nm           7.3mb X
     Z  15s   650.00um           7.8MszX
     N  15s   750.00um
     E  16s   658.00um
                iPcP   54 16.00
                iS     00 28.00
                iSS    03 59.00
KKN    52.22 274 eP    53 10.90  -0.8
PKI    52.25 274 eP    53 11.20  -0.9
       0.9s   710.00nm           6.6mb
KSH    52.40 292 iPc   53 13.00   0.1
DMN    52.45 274 eP    53 12.20  -1.3
LMG    52.85 180 eP    53 11.00  -5.3X
SVE    53.33 317 iPc   53 18.00  -1.3
       2.8s   900.00nm           6.2mb
     Z  16s  1017.00um           8.0MszX
     N  16s   304.00um
     E  16s   464.00um
                ePcP   54 28.00
                ePP    55 15.00
                eS     00 44.00
PMG    53.36 181 eP    53 20.00   0.2
                eS     00 50.00
ANR    54.14 295 iPc   53 25.40  -0.1
       1.2s  1200.00nm           6.8mb
     Z  15s   520.00um           7.7MszX
     N  15s   850.00um
     E  15s   500.00um
                isP    53 41.50
                iS     01 01.30
KBS    54.47 351 eP    53 29.90   2.4
PHC    54.49  51 eP    53 27.50  -0.4
       1.0s   221.00nm           6.1mb
ARU    54.52 317 iPc   53 26.70  -1.3
       2.8s  1800.00nm           6.6mb
     Z  16s   822.00um           7.9MszX
     N  16s   370.00um
     E  16s   653.00um
                ePP    55 26.00
                eSP    01 11.00
YKA    55.02  34 eP    53 31.00  -0.7
RSNT   55.04  34 eP    53 30.30  -1.4
       1.2s   275.86nm           6.2mb
                e      55 42.00
YKC    55.08  34 eP    53 31.00  -1.1
       0.6s   137.00nm           6.2mb
SNG    55.39 243 iPc+  53 35.00   0.1
       1.0s   420.00nm           6.4mb
     Z  22s    33.70um           6.4Msz
     N  22s    48.89um
     E  20s    81.56um
                eS     01 17.00
MKS    55.55 215 iPc   53 36.00   0.0
TAS    55.83 297 iPc   53 37.00  -0.9
       1.5s  2040.00nm           6.9mb
     E  15s   702.00um
                ePP    55 50.00
                eS     01 28.00
GAR    56.40 294 iP    53 41.00  -1.1
       2.5s  1020.00nm           6.4mb
                iS     01 30.50
KHO    56.41 292 iPc   53 41.40  -0.9
     Z  30s   370.00um           7.3MszX
     N  30s   299.00um
     E  30s   153.00um
                eS     01 31.00
                eScS   03 27.00
IPM    57.12 240 ePd   53 48.00   0.7
       1.9s   231.40nm           5.9mb
                e      53 58.30
KUL    57.37 293 ePc   53 48.50  -0.4
       8.0s  *******nm           7.2mb X
     N  17s   175.00um
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     E  19s   350.00um
                iPcP   54 35.40
                iPP    55 50.50
                iPPP   57 22.30
NDI    57.45 280 iPc   53 47.80  -1.7
       0.6s   386.67nm           6.6mb
     Z  18s    40.21um           6.6Msz
     N  18s    38.49um
     E  18s    27.49um
                iS     01 44.50
DSH    57.65 294 iPc   53 50.00  -0.9
       6.5s  *******nm           7.4mb X
     Z  16s   825.00um           7.9MszX
                eS     01 50.00
KGM    57.73 236 ePc   53 51.50   0.0
PGC    57.76  52 eP    53 53.00   1.6
KLM    57.89 239 eP    54 04.20  11.6X
SAM    58.20 296 iPc   53 54.00  -0.7
       1.0s  3400.00nm           7.4mb X
     N  16s   560.00um
                iPP    56 05.00
                iPPP   57 27.00
                iS     01 53.30
APA    58.30 336 iPc   53 53.00  -2.0
       1.2s   160.00nm           6.0mb
     Z  19s   360.00um           7.5Msz
     N  19s   180.00um
     E  19s   279.00um
                iPcP   54 39.00
                iS     01 52.00
KUPT   58.50 209 e(P)  54 12.00  15.2X
KUG    58.52 209 eP    54 12.00  15.1X
KEV    58.55 340 iP+   53 55.00  -1.7
       0.8s    66.00nm           5.8mb
                i      54 09.30
                isP    54 58.20
                ePPP   57 40.00
                eS     02 00.00
GMW    58.73  52 eP    53 58.20  -0.1
                e      54 09.00
MTN    58.85 200 eP    53 56.00  -3.2X
DAG    59.03 357 iPc   53 59.50  -0.4
       0.8s    24.63nm           5.4mb
                i      54 56.00
                i      55 10.00
MED    59.39 242 e(P)  54 05.50   2.4
PNT    59.53  49 eP    54 02.00  -1.8
SHW    59.79  53 eP    54 07.60   1.8
COR    60.06  56 iPd   54 09.00   1.6
SOD    60.33 338 iP    54 06.30  -2.7
                i      54 09.00
                i      54 16.00
                e      23 51.00
DNP    60.49 218 eP    54 17.30   6.8X
TRO    60.56 342 eP    54 07.70  -2.8
EDM    60.58  43 ePc   54 09.10  -1.8
TRT    60.81 221 iPd   54 13.00   0.2
NEW    61.49  49 P     54 07.00 -10.2X
NEW    61.49  49 eP    54 16.00  -1.2
     Z  20s    90.00um           6.9Msz
                e      54 28.00
                e      55 51.00
FHC    61.79  59 e(P)  54 19.00  -0.4
YKM    61.90  48 iPc   54 20.30   0.2
PNO    62.11  52 eP    54 22.30   0.9
RXF    62.21  48 iP    54 22.70   0.5
KNA    62.23 201 eP    54 20.00  -2.3
KJF    62.28 335 iP    54 20.60  -1.6
       0.9s   152.10nm           6.2mb
                i      54 32.40
                ePPP   58 32.00
                eS     02 32.00
                e      23 29.00
LHD    62.34  49 iPc   54 22.50  -0.5
LDM    62.35  48 iPc   54 23.50   0.5
CLX    62.60  48 iPc   54 24.50  -0.3
KSI    62.71 233 eP    54 21.80  -3.8X
                e      59 57.00
WDC    62.81  59 ePc   54 24.70  -1.4
                i      54 44.00
                i      54 53.00
                i      55 08.00
                eP'P'  23 34.00
RMT    63.12  60 eP    54 28.10   0.0
                i      54 39 10
HYB    63.52 269 ePc   54 29.00  -2.0
       0.8s   500.00nm           6.7mb
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MIN    63.53  59 eP    54 29.00  -2.0
QUE    63.72 287 eP    54 32.00  -0.4
                eS     03 33.30
SUF    63.84 334 iP    54 30.00  -2.5
       0.5s   123.80nm           6.3mb
CTA    63.99 182 iPc+  54 31.30  -2.6
       0.9s    32.35nm           5.5mb
                iS     10 03.00
PVC    64.33 159 iPc   54 36.50   0.4
MOS    64.52 324 iPc   54 36.00  -1.0
       4.0s  5900.00nm           7.1mb X
     Z  15s   344.00um           7.7MszX
     N  15s   275.00um
     E  15s   264.00um
                ePP    56 56.00
                eS     03 12.00
                iSPP   03 40.00
PUL    64.59 330 ePc   54 36.00  -1.4
       8.0s  *******nm           7.1mb X
     Z  16s   350.00um           7.6MszX
     N  16s   220.00um
     E  16s   260.00um
                iPcP   55 04.00
                ePP    57 06.00
                ePPP   58 30.00
                eS     03 18.00
                ePS    03 37.00
                eSS    07 20.00
                eSSS   10 16.00
BKS    64.62  61 eP    54 39.20   1.3
       1.0s    87.00nm           5.9mb
                eS     03 18.00
ASH    64.70 299 eP    54 39.00   0.5
       3.0s  6020.00nm           7.2mb
                ePcP   55 07.00
                iS     03 22.50
                ePPS   03 50.00
                eScS   04 23.00
VAN    64.86 299 ePc   54 39.00  -0.5
FFC    64.90  37 ePc   54 38.20  -1.3
       0.8s    83.00nm           5.9mb
MHI    64.98 297 eP+   54 40.00  -0.4
                eS     03 22.00
WB2    65.07 194 iPc   54 37.80  -3.1X
                i      54 52.50
                i      55 04.70
                eS     03 34.80
WRA    65.07 194 Pd    54 37.60  -3.3X
       0.9s    35.30nm           5.5mb
ISQ    65.07 189 eP    54 38.00  -2.9
KAT    65.24 301 iPc   54 44.00   2.1
       9.0s  *******nm           7.4mb X
                ePP    57 14.00
                eS     03 24.00
                eSP    03 37.00
                iSPP   03 55.00
FCC    65.27  31 ePc   54 40.30  -1.5
WCN    65.29  59 eP    54 42.30  -0.2
MHC    65.31  61 e(P)  54 41.00  -1.6
OBN    65.34 324 P     54 42.00  -0.2
OBN    65.34 324 iPc   54 49.00   6.8X
       1.2s   720.00nm           6.7mb
     Z  16s   540.00um           7.8MszX
     N  18s   360.00um
     E  16s   350.00um
                iPS    03 50.00
                iSSS   10 30.00
JAS    65.70  60 ePc   54 43.80  -1.1
                e      54 56.00
                i      55 06.00
                i      55 18.00
                eP'P'  23 20.00
GDH    65.74   8 iPd   54 43.90  -0.7
       1.5s   672.22nm           6.6mb
     Z  19s    46.18um           6.7Msz
                i      54 54.00
                i      59 44.00
                iS     03 35.00
NUR    65.97 333 iP    54 43.60  -2.6
       0.5s    56.10nm           6.0mb
     Z  16s   355.60um           7.7MszX
                iPcP   55 03.00
                ipP    55 30.50 200kmX
                ePP    57 32.00
                ePPP   59 00.00
                eS     03 40.00
                e      23 46.00
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24d 09h

KOU		66.11	163	iPc	54	47.90	0.4	TEH		70.43	301	eP	55	15.00	0.3	COO		74.49	177	eP	55	39.00	0.7
BMN		66.13	56	eP	54	47.00	-0.8	SLBC		70.83	62	eP	55	19.00	2.1	KIS		74.59	322	iPc	55	38.50	-0.3
		1.1s	97.40nm			5.9mb		GRS		70.97	307	iPc	55	17.20	-0.7			2.5s	2300.00nm			6.8mb	
				i	54	58.50				2.4s	1550.00nm			6.7mb			Z	17s	776.00um			8.1MszX	
POO		66.17	273	iPc	54	47.30	-0.9		Z	16s	210.00um			7.5MszX			N	17s	475.00um				
PRI		66.67	62	e(P)	54	50.00	-1.3		N	16s	158.00um						E	17s	309.00um				
FRI		66.75	61	e(P)	54	50.00	-1.6		E	16s	206.00um									iPP	58	24.00	
MNA		66.81	59	eP	54	51.00	-1.2					iPcP	55	32.00						iS	05	10.00	
GBA		66.85	267	Pc	54	50.40	-2.0					iS	04	31.00		LHC		74.92	36	eP	55	39.50	-1.2
		1.1s	201.00nm			6.2mb						iPS	05	05.00				0.9s	264.00nm			6.3mb	
KHI		66.85	296	eP	54	52.30	-0.3	KONO		71.06	339	iP	55	17.80	0.0	IAS		75.03	323	eP	55	43.00	1.7
NDF		67.22	150	eP	55	08.20	13.6X	BKR		71.06	310	iPc	55	19.30	0.9	CMS		75.35	182	eP	55	43.00	-0.2
EUR		67.48	56	iP	54	55.00	-1.5			1.2s	1500.00nm			7.0mb		KVT		75.52	314	iP	55	45.00	0.7
		0.2s	25.68nm			6.0mb						ePcP	55	45.00		KRA		75.86	329	iPc	55	45.40	-0.6
VUN		67.82	149	ePc	54	58.60	0.2					iS	04	30.60				0.9s	1420.00nm			7.0mb	
SVA		67.92	149	eP	55	10.30	11.3X	RSSD		71.12	46	eP	55	18.30	-0.5		Z	16s	181.50um			7.5MszX	
MAK		68.04	309	iPc	55	01.10	1.5			1.1s	91.86nm			5.8mb						i	55	47.70	
		7.0s	*******	nm		7.1mb	X					i	55	30.30						i	55	57.50	
	Z	21s	245.00um			7.4Msz		RSON		71.19	36	eP	55	16.60	-2.2					i	56	17.70	
	N	21s	402.00um									e	55	29.50						iS	05	34.00	
	E	18s	253.00um					BRS		71.36	176	iPc	55	19.10	-0.9					e	11	04.00	
				ipP	55	10.30	30kmX					e	55	32.00		STK		75.95	186	eP	55	46.00	-0.6
				iPcP	55	25.80						i	55	44.00		UZH		76.10	326	iPd	55	47.50	0.1
				iS	03	57.10						i	56	20.00			Z	17s	468.00um			7.9MszX	
CWC		68.11	60	iPd	55	02.80	2.3					e	57	55.00						ePP	58	33.00	
				e	55	13.00						e(S)	03	30.00						iS	05	30.00	
				e	56	04.00		BAR		71.42	62	eP	55	19.00	-1.5	ALQ		76.15	55	iPc+	55	47.00	-1.2
SYP		68.12	63	eP	55	03.00	2.5	BER		71.44	342	eP	55	18.50	-1.6			1.0s	85.00nm			5.8mb	
NOU		68.27	162	iPd	55	03.00	1.9	LEN		71.53	309	iPc	55	22.00	0.8		Z	20s	74.47um			7.0Msz	
				iS	04	04.00				2.3s	2600.00nm			6.9mb						e	56	00.00	
WKTM		68.29	61	eP	55	01.30	-0.2		Z	20s	52.00um			6.8Msz		BRN		76.24	334	eP	55	49.00	0.9
BAK		68.32	306	iPd	55	06.00	4.6X		N	20s	68.00um					CFR		76.31	321	ePd	55	49.00	0.4
		6.0s	*******	nm		7.3mb	X		E	20s	49.00um					HAM		76.35	336	iPc	55	50.40	1.7
				esP	55	18.00						iPcP	55	45.00		BHD		76.36	303	iPd	55	50.50	1.4
ISA		68.35	61	eP	55	00.00	-1.8					ePP	58	06.00						ePP	58	52.00	
				e	03	56.00						iS	04	43.00						ePPP	00	40.00	
AFI		68.37	138	eP	55	05.00	3.0	ERE		71.56	308	iPc	55	21.50	0.2					eS	05	32.50	
				S	04	20.00						iS	04	40.50						eSS	10	55.00	
				eSS	08	00.00		GCA		71.72	56	eP	55	23.00	0.6	BMR		76.38	325	ePd	55	52.00	3.0X
FRB		68.55	17	ePc	55	01.00	-1.4					e	55	37.00		VRI		76.42	322	eP	55	50.00	0.7
UPP		68.67	336	iP	55	01.80	-1.4	REY		71.72	355	iPc	55	22.90	1.2	KSP		76.53	331	iPc	55	49.50	-0.3
		0.7s	100.00nm			6.1mb						i	55	37.30				1.0s	1110.00nm			6.9mb	
				i	55	04.60		SOC		71.83	313	iPc	55	22.50	-0.2					id	55	50.20	
				i	55	13.40				1.0s	150.00nm			6.0mb						id	56	01.60	
				iS	04	01.10						epP	55	33.00	34kmX					iS	05	33.20	
ASPA		68.78	194	iPc	55	02.50	-1.9	TAB		71.93	306	iP+	55	25.00	1.3	CVO		76.70	322	iPd	55	52.00	1.1
		0.8s	43.00nm			5.7mb		RMU		72.03	56	eP	55	23.00	-1.3	CEI		76.79	326	eP	55	55.00	3.7X
GRO		68.79	310	iPc	55	04.00	-0.3					i	55	36.00		TLB		76.82	321	iPc	55	52.00	0.5
		2.0s	1700.00nm			6.9mb		ANN		72.15	316	iPd	55	24.00	-0.6	JOS		76.90	327	ePc	55	52.00	0.1
				iS	04	07.00						ipP	55	34.00	32kmX			1.2s	10.00nm			4.8mb	X
CLC		68.81	60	eP	55	03.00	-1.6					iPP	58	09.00		SCH		76.98	20	ePd	55	50.80	-1.5
DUG		68.89	54	eP	54	56.00	-9.2X	GLA		72.34	61	eP	55	25.00	-1.0			0.6s	54.00nm			5.8mb	
SHE		68.90	306	P	55	05.00	0.0	WBN		72.73	200	iPd	55	28.00	-0.2	MLR		77.05	322	iPd	55	53.00	0.0
BDW		69.05	50	eP	54	51.60	-14.6X	NAU		72.84	211	eP	55	29.00	0.2	ISR		77.06	322	iPd	55	54.00	1.1
SBB		69.38	61	eP	55	07.00	-1.2	GOL		73.46	51	eP	55	32.20	-0.6	CLL		77.25	333	iPc	55	52.90	-0.9
NB2		69.45	339	P	55	06.80	-1.3			0.8s	20.83nm			5.2mb	X			1.7s	3000.00nm			7.1mb	
PAS		69.51	62	eP	55	08.00	-0.9		Z	20s	60.00um			6.9Msz						i	56	19.00	
		1.5s	600.00nm			6.5mb						i	55	45.50						eS	05	40.00	
				ePP	57	58.00		GLD		73.51	50	eP	55	32.50	-0.4					i	06	08.00	
				ePPP	00	02.00				1.1s	183.22nm			6.0mb		BRG		77.31	332	iPc+	55	53.30	-0.8
				eS	04	00.00			Z	20s	68.00um			6.9Msz				2.6s	1250.00nm			6.5mb	
				eSS	09	16.00						i	55	45.00						i	56	06.60	
MWC		69.53	62	eP	55	10.00	0.7	SIM		73.68	317	eP	55	34.00	0.4					P'P'	23	22.00	
				e	04	14.00				6.0s	*******	nm		7.0mb	X	PSN		77.45	320	iPc	55	57.00	2.1
HFS		69.56	338	iP	55	07.20	-1.5		Z	17s	450.00um			7.8MszX		CMP		77.63	323	iPc	56	00.00	4.0X
		0.5s	88.00nm			6.2mb			N	17s	414.00um					RIV		77.70	177	eP	55	56.00	-0.2
GSC		69.63	60	eP	55	09.00	-0.7		E	17s	215.00um					KDE		77.71	316	eP	55	56.00	-0.5
				e	55	20.00						iPcP	55	44.00		WIT		77.85	337	eP	55	58.50	1.5
				e	55	33.00		COP		73 69	336	iPc	55	32.50	-0.9					e	56	11.00	
PYA		69.76	312	ePd	55	09.50	-0.7			0.5s	154.93nm			6.3mb		PRU		77.86	331	iPc	55	57.10	0.0
		3.0s	2500.00nm			6.8mb						iS	05	00.00				2.0s	859.40nm			6.5mb	
				isP	55	23.00		WAR		73.69	329	eP+	55	35.00	1.5		Z	21s	523.80um			7.8Msz	
				iSP	04	35.00						e	55	56.00						i	56	10.00	
MNK		69.92	327	iPc	55	08.00	-3.0X					e	58	28.00						S	05	48.00	
				ePP	57	40.00						e	00	28.00		EKA		77.90	344	Pc	55	58.00	0.7
				eS	04	14.00						e	01	19.00				0.6s	70.90nm			5.9mb	
AKU		69.94	354	iPc	55	11.90	1.0					e	03	32.00		BUC1		77.91	322	iPc	55	40.00	-17.5X
		1.0s	448.00nm			6.6mb						e	05	04.00		BUC1		77.91	322	iPc	55	57.00	-0.5
	Z	18s	118.21um			7.2Msz		MUD		73.95	338	iPd	55	35.40	0.5	DEV		78.05	324	ePd	56	02.00	3.7X
RVR		70.12	62	eP	55	11.00	-1.6			1.1s	250.00nm			6.2mb		YOU		78.10	180	eP	55	58.60	0.1
KRV		70.21	308	eP	55	12.00	-1.0	KER		73.97	302	eP	55	38.00	2.3					epP	56	12.20	47kmX
				eS	04	17.00		LVV		74.47	326	iPc	55	38.60	0.6	MOX		78.27	333	iP	55	59.00	-0.4
MTA		70.37	309	iPc	55	14.00	0.0		Z	17s	385.00um			7.8MszX				1.6s	1574.00nm			6.8mb	
	Z	20s	91.00um			7.0Msz			N	20s	511.00um						Z	18s	264.00um			7.6Msz	
	N	20s	136.00um						E	20s	720.00um						N	18s	201.00um				
	E	20s	136.00um									iPP	58	28.00			E	18s	142.00um				
				iS	04	26.00						iS	05	11.00						i	56	12.00	

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			iS	05	52.00			FUR	80.53	332	iPc	56	11.70	0.0		VAL	82.44	347	iP	56	21.90	0.4
			iPS	06	35.00				1.0s	951.00nm			6.8mb						iS	06	36.00	
			iSS	11	30.00				Z 16s	131.00um			7.4MszX			YER	82.46	316	iPc	56	22.10	0.1
BUD	78.32	328	ePc	56	01.00	1.3					eS	06	27.00			FVM	82.56	43	eP	56	22.10	-0.3
	1.8s	450.00nm			6.2mb			VTS	80.55	322	iPc	56	22.00	10.2X			1.0s	85.00nm			5.8mb	
SRO	78.32	328	ePc	56	00.90	1.2		MOT	80.62	56	P	56	11.80	-1.0					i	56	35.00	
			e	56	10.10			RAR	80.64	132	P	56	24.00	11.5X		DLA	82.59	34	P	56	23.30	0.8
			eS	06	04.10						S	06	28.00			VDL	82.60	333	ePd	56	23.00	0.2
DRA	78.43	323	ePd	56	02.00	1.6		KBA	80.76	331	iPc	56	13.20	0.1		OTT	82.67	30	eP	56	22.00	-0.8
ZST	78.45	329	eP	56	01.00	0.6					i	56	15.60				0.9s	138.00nm			6.1mb	
	Z 18s	442.20um			7.8Msz						i	56	20.50			PMO	82.72	119	iP	56	37.20	13.7X
			e	56	12.50						i	56	30.20				1.3s	460.00nm				
			e	56	59.50						i(PP)	59	25 30						epP	56	52.00	51kmX
HOF	78.47	333	eP	56	00.10	-0.5					iS	06	20.50			UTO	82.74	36	iPd	56	26.50	3.2X
WTS	78.54	337	eP	56	01.00	0.2		CHI	80.77	39	P	56	13.00	0.0		OHR	82.81	323	iP	56	23.30	-0.5
	1.0s	211.00nm			6.1mb			OCO	80.80	49	eP	56	14.00	0.7					i	56	33.60	
			e	56	13.00			WLF	80.81	336	P+	56	15.00	1.9					iS	06	37.30	
VKA	78.68	329	iPd	56	02.50	0.8					S	06	23.00			JER	82.82	308	iP	56	25.50	1.5
VKA	78.68	329	iPc	56	03.20	1.5		DOU	80.87	337	Pc+	56	14.00	0.6		TPT	82.88	119	iP	56	38.00	13.7X
	9.0s	********nm			7.6mb X						SKS	06	28.00				1.3s	310.00nm				
	Z 20s	134.30um			7.3Msz						S	06	50.00						epP	56	54.00	56kmX
			i	56	12.60						PPS	09	03.00			RKG	82.90	206	eP	56	26.50	2.5
			i	59	22.70			GWF	80.99	335	iPc	56	14.80	0.7		SAL	83.01	332	eP	56	24.50	-0.1
			iS	05	57.40			BCK	81.04	314	iPc	56	14.70	0.1					e	06	41.00	
DBN	78.90	338	eP+	56	03.00	0.2		BUH	81.07	334	eP	56	14.40	-0.1		BHO	83.07	48	eP	56	25.10	0.0
	Z 23s	118.60um			7.2MszX			MMB	81.13	321	iPc	56	15.00	0.0		VAH	83.07	119	iP	56	38.90	13.7X
			e	59	26.00			BFD	81.15	185	eP	56	25.00	10.2X			1.3s	245.00nm				
			eS	06	12.00			LJU	81.21	329	eP	56	14.50	-0.8		TMA	83.13	333	ePd	56	24.50	-1.0
KHC	78.92	332	iPc	56	03.10	0.1			1.2s	650.00nm			6.5mb			RUV	83.19	119	iP	56	39.70	13.9X
	1.1s	318.00nm			6.3mb						eS	06	20.00				1.3s	265.00nm				
	Z 18s	315.30um			7.7Msz			MUN	81.23	207	eP	56	15.00	-0.4					epP	56	55.00	53kmX
	N 17s	175.70um						SIO	81.26	48	e(P)	56	15.70	-0.1		JCT	83.24	54	iP	56	25.30	-0.9
	E 17s	138.80um						EZN	81.32	319	iPc	56	16 40	0.5			1.2s	460.94nm			6.5mb	
			e	56	16.60			HRI	81.41	308	eP	56	17.50	0.8			Z 20s	113.48um			7.2Msz	
			e	57	48.60			TUL	81.41	48	eP+	56	15.50	-1.0					e	56	37.00	
			S	06	10.00				0.6s	177.40nm			6.3mb			MNT	83.30	28	iPc	56	26.00	-0.1
GPA	79.02	316	iP	56	03.80	0.0			Z 19s	72.30um			7.1Msz				1.0s	200.00nm			6.3mb	
ACO	79.03	49	eP	56	03.50	-0.3					e	56	28.70			FLN	83.43	340	eP	56	26.80	0.1
	1.4s	1051.90nm			6.7mb			TOO	81.42	182	eP	56	17.00	0.7		MMK	83.47	333	ePd	56	27.00	-0.3
ISK	79.04	318	eP	56	03.60	-0.2		CEY	81.51	329	e(P)	56	16.80	-0.1		LDF	83.50	339	eP	56	27.10	0.0
DMK	79.08	319	iPd	56	15.80	11.8X					i	56	29.60			POW	83.61	44	eP	56	27.50	-0.4
JMB	79.13	320	iPc	56	05.00	0.8		CDF	81.59	335	eP	56	17.30	-0.1		DIX	83.62	334	ePd	56	28.00	-0.1
CAN	79.15	179	eP	56	03.80	-0.4		RLO	81.63	47	eP	56	17.30	-0.3		LOR	83.63	336	eP	56	27.80	0.0
			ipP	56	17.90	49kmX		OGA	81.74	332	iPc	56	18.50	0.2			1.0s	343.70nm			6.5mb	
WET	79.15	332	iPc	56	04.20	-0.1		NWAO	81.77	206	eP	56	18.00	-0.2		PTN	83.64	29	eP	56	27.40	-0.5
			eS	06	13.00			TRI	81.78	330	iPc	56	18.00	-0.2		PPN	83.69	122	eP	56	42.00	13.6X
GRF	79.22	333	ePc	56	04.90	0.2					iPcP	56	26.00				1.3s	230.00nm				
	1.1s	328.00nm			6.3mb						epP	56	32.90	52kmX					epP	56	57.00	52kmX
	Z 20s	110.00um			7.2Msz						iPP	59	30.00			EMS	83.79	334	ePd	56	28.50	-0.4
			eS	06	03.20						eS	06	26.60			RSNY	83.82	29	eP	56	28.80	0.0
PVL	79.24	321	iPd	56	05.00	0.2					esS	07	07.50				1.0s	45.00nm			5.6mb	
ADE	79.26	188	e(P)	56	06.50	1.6					iSP	07	12.00						e	56	40.30	
BNS	79.35	336	iPc	56	04.70	-0.6					iSS	12	00.00			GRC	83.83	337	iPd	56	30.00	1.2
	1.2s	1240.00nm			6.8mb						eSSS	15	49.00			ORO	83.85	333	eP	56	28.50	-0.6
BNS	79.35	336	iPc	56	06.00	0.7		GBO	81.78	47	e(P)	56	17.90	-0.5					e	05	42.00	
			ePP	59	26.00			SLE	81.79	334	ePd	56	18.00	-0.3		LBF	83.86	336	eP	56	28.80	-0.2
			eS	06	29.00			ECH	81.80	335	iPd	56	18.80	0.4		GRR	83.87	340	eP	56	29.30	0.3
SSR	79.36	324	iP	56	05.00	-0.4		SKO	81.83	323	iPc	56	18.90	0.3		SSF	83.92	337	eP	56	29.20	-0.1
TNS	79.63	335	ePd	56	07.10	0.2					iPcP	56	30.00			DHN	83.96	32	eP	56	28.80	-0.7
			e	02	24.00						i	57	37.00			OLY	83.98	45	eP	56	29.00	-0.7
			eS	06	07.70						iPP	59	35.00			PRNI	84.00	307	eP	56	30.00	0.0
KMR	79.64	331	iP+	56	07.20	0.3					iPPP	01	32.00			ATH	84.02	319	iPc	56	30.00	0.1
ENN	79.89	337	eP	56	08.50	0.3					iS	06	31.50						ePP	00	09.20	
	1.0s	208.00nm			6.1mb						iScS	06	58.00						eSKS	07	02.40	
			e	56	20.00						iSSS	16	02.00						ePS	08	24.00	
DIM	79.92	320	eP	56	09.00	0.5		FEL	81.84	334	iP	56	18.80	0.1					eSSS	16	36.00	
DMU	79.98	345	iPd	56	08.80	0.2		VAY	81.86	322	iP	56	18.70	0.0		VG1	84.09	332	eP	56	30.50	0.4
	1.2s	650.00nm			6.5mb			ELL	81.93	314	iP	56	17.10	-2.3					e	06	48.00	
DMU	79.98	345	iPc	56	21.00	12.4X		SAX	81.97	333	ePd	56	19.50	-0.1		SMF	84.20	336	iPc	56	30.90	0.2
	1.1s	1100.00nm						IZM	81.98	317	iP	56	20.00	0.5		AVF	84.21	337	eP	56	31.20	0.5
WAM	80.02	179	eP	56	07.80	-1.0		ZUL	82.07	334	ePd	56	19.50	-0.3		LPF	84.25	340	iPc	56	31.40	0.5
			epP	56	18.20	33kmX		AAM	82.19	36	ePc	56	20.80	0.4		FIR	84.35	330	eP	56	33.00	1.6
EDC	80.18	318	iPd	56	09.90	0.0					eS	06	30.80						iS	06	42.00	
PLD	80.27	321	eP	56	11.00	0.6		OSS	82.20	332	ePd	56	20.50	-0.1		ALP	84.36	328	eP	56	31.00	-0.5
UCC	80.30	338	Pc	56	11.00	0.7		HAU	82.24	335	eP	56	20.40	-0.2		GRT	84.40	43	eP	56	32.30	0.4
			e	06	38.00				1.3s	183.30nm			6.0mb						i	56	44.50	
KDZ	80.35	320	iPc	56	11.00	0.2		CTI	82.24	331	iPd	56	20.20	-0.6		APH	84.45	30	eP	56	31.00	-1.0
DDK	80.36	345	iPd	56	10.80	0.2					e	06	28.00			ATX	84.48	53	iP	56	33.00	0.6
	1.1s	430.00nm			6.4mb			BSF	82.26	335	eP	56	20.50	-0.3		HNME	84.51	24	eP	56	31.30	-0.9
DDK	80.36	345	iPc	56	22.90	12.3X			1.6s	340.70nm			6.2mb			BRT	84.53	325	eP	56	32.30	-0.1
	1.2s	1120.00nm						ROF	82.36	335	iP	56	21.40	0.1		LCI	84.67	324	eP	56	33.00	-0.1
BHG	80.37	331	eP	56	11.10	0.3		BBS	82.36	334	iP	56	22.00	0.7		AQU	84.79	328	eP	56	33.00	-0.8
DST	80.38	317	iPc	56	10.30	-0.8		TTG	82.38	324	iPd	56	21.50	0.1					e	06	39.00	
DLE	80.50	345	iPd	56	11.70	0.3					e(S)	06	35.00			NSLM	84.85	50	iP	56	34.00	-0.1
	0.8s	470.00nm			6.6mb			ELF	82.41	34	P	56	22.10	0.5		MZF	84.96	337	iPc	56	35.10	0.6
DLE	80.50	345	iPc	56	22.40	11.0X		LLS	82.42	333	ePd	56	21.20	-0.6		DUI	84.97	327	eP	56	35.50	0.9
	1.0s	860.00nm						VDM	82.44	338	eP+	56	24.50	2.9					e	07	06.00	

24d 09h

TCF	85.00	337	iPc	56	35.10	0.4				eS	08	25.90		RTLL	148.58	78	e(PKP)	03	44.80	1.9
	1.6s	777.40nm			6.7mb		CRT	95.04	338	eP	57	25.80	3.4X	CFA	148.90	79	ePKPd	03	43.00	-0.4
MIM	85.01	25	eP	56	34.30	-0.4	SFS	96.42	339	ePc	57	30.00	1.5	MDZ	149.17	81	e(PKP)	03	45.40	1.6
			e	56	47.80					i	57	41.00		TMU	149.20	94	iPKPc	03	45.00	1.5
MNS	85.03	329	eP	56	34.00	-0.8				iPP	59	30.00		RFA	150.41	84	ePKPd	03	45.80	0.2
			e	07	01.00					iSKS	08	40.00		TCA	151.30	75	ePKPc	03	46.60	-0.5
LSF	85.22	337	eP	56	36.20	0.4				iS	10	22.00		VAO	155.47	35	ePKP	04	08.60	15.5X
SGG	85.24	327	eP	56	36.40	0.3				ePS	12	30.00		BMA	156.27	29	ePKP	04	05.20	11.1X
MFF	85.34	339	eP	56	36.80	0.4				iSP	15	38.00		RDJ	156.78	27	iPKP+	03	56.40	1.7
KRP	85.41	159	eP	56	40.00	3.4X				iSS	19	20.00		LPA	157.92	74	ePKP+	03	54.00	-1.7
			(PcP)	56	56.00					iSSS	26	10.00			S.D. = 1.1 on 518 of 658 obs.					
			(pP)	57	03.00	85kmX	AAE	97.33	290	eP	57	36.00	2.6							
RMP	85.52	328	iPc	56	38.00	0.6	TAM	105.07	325	iPdiff	58	09.00	1.4							
			iPP	00	32.00		AVY	110.32	263	ePKP	02	33.00	0.6							
			iSKS	07	20.00		SJG	110.51	35	e(Pdif	58	10.00	-21.8X							
ORI	85.54	325	eP	56	38.50	1.1		Z 20s		42.55um			7.0Msz							
RDP	85.56	328	eP	56	37.00	-0.6	BNG	113.82	303	ePdiff	59	02.00	15.4X							
			e	06	36.00		LGN	115.18	44	ePKP	02	44.50	3.0X							
SGO	85.57	326	e(P)	56	37.00	-0.6	PAF	115.30	225	ePdiff	59	05.00	12.7X							
RJF	86.09	337	eP	56	40.80	0.6	FDF	115.55	32	ePdiff	59	12.00	17.8X							
FRF	86.12	333	eP	56	40.20	-0.1	SDV	116.57	44	ePKP	02	45.50	1.0							
CVF	86.25	331	iPc	56	40.30	-0.7		0.9s		83.30nm										
	1.3s	140.00nm			6.0mb		CHN	117.24	51	ePKP	02	46.00	0.3							
CAF	86.28	337	eP	56	42.20	1.0	BOG	118.38	50	ePKP	03	04.00	15.9X							
CDR	86.30	334	ePc	56	41.30	0.1	PSO	119.33	55	ePKP	02	55.00	5.0X							
			e	56	42.00		MTD	120.51	276	ePKP	02	52.00	0.3							
			i	56	43.50					ipPKP	03	08.00								
			i	56	52.50					iPP	04	18.00								
			i	57	10.00		GUV	121.03	37	ePKP	02	57.40	4.7X							
			e	07	13.30		KRI	121.95	278	ePKP	02	55.00	0.5							
LRG	86.30	333	iPc	56	41.50	0.3				ipPKP	03	10.00								
LMR	86.36	333	iPc	56	41.60	0.1				iPP	04	30.00								
HLW	86.44	309	iPc	56	44.00	1.9	SBA	122.31	175	ePKP	02	54.50	1.2							
			eS	07	17.00					S	14	44.00								
LFF	86.65	337	eP	56	43.80	0.9	KIC	124.06	327	ePKP	02	57.60	-1.0							
TAU	86.72	181	eP	56	46.00	3.1				e	03	10.00								
			e	57	10.00					e	04	35.20								
			e	07	06.00					e	12	44.60								
			e	07	20.00		BUL	124.83	275	ePKP	02	59.00	-1.0							
LPO	86.75	337	eP	56	44.20	0.8				ipPKP	03	12.00								
STJ	86.78	14	eP	56	43.50	0.0				iPP	05	05.00								
	1.0s	344.00nm			6.5mb		MAW	128.25	209	ePKP	03	06.00	1.0							
RSCP	86.79	41	eP	56	43.20	-0.6	EVA	128.44	269	ePdiff	00	11.00	19.4X							
	1.0s	180.00nm			6.2mb		SLR	128.55	270	e(Pdif	00	06.00	13.9X							
			i	56	57.00		NNA	129.86	64	ePKP	03	10.50	0.8							
PRIN	87.39	31	eP	56	46.70	0.1		0.5s		42.25nm										
NAV	87.55	37	eP	56	47.50	0.1				e	05	41.00								
BLA	87.80	37	P	56	49.50	0.9	BFS	130.32	270	ePKP	03	10.70	0.3							
MNG	87.94	160	P	56	49.70	0.8		1.0s		38.00nm										
			(pP)	57	53.00	262kmX	SEK	130.55	268	iPKPd	03	11.50	0.7							
			i	58	13.90			0.8s		33.58nm										
GIB	88.29	325	e(P)	57	03.50	12.4X	HUA	130.88	63	iPKPd	03	14.30	2.2							
MLS	88.37	336	eP	56	51.70	0.4				iS	06	34.50								
WEL	88.39	160	P	57	00.80	9.8X	SPA	134.00	180	ePKP	03	10.90	-5.3X							
N	22s	171.85um						1.0s		45.00nm										
E	22s	57.78um						Z 20s		17.21um			6.8Msz							
			S	07	26.00		GRM	134.05	263	e(PKP)	03	28.00	10.8X							
EPF	88.51	337	iPc	56	52.20	0.2		0.7s		34.25nm										
	1.3s	86.60nm			5.9mb			Z 22s		19.07um			6.8Msz							
PRM	89.54	40	eP	56	56.90	-0.1	LPB	138.83	60	PKP	03	22.00	-5.1X							
			e	57	10.30			Z 23s		85.23um			7.4MszX							
LGR	89.82	339	eP	56	55.00	-3.2X				i	03	29.00								
			i	57	11.50		ITR	144.24	11	ePKP	03	33.10	-3.1X							
			iPP	00	35.00					e	03	34.80								
			iS	07	41.00					e	03	38.60								
MSZ	90.21	166	eP	57	02.70	3.2X				e	03	39.80								
EBR	90.51	336	eP	57	01.00	-0.3	SOB1	144.27	15	ePKP	03	33.10	-3.1X							
IIC	91.52	60	P	57	08.20	1.5				e	03	34.40								
OXM	91.60	61	P	57	08.50	1.4				e	03	35.40								
TAC	91.83	61	iP	57	10.00	1.9				e	03	48.40								
TPM	92.23	61	iP	57	12.00	2.2	YJA	144.64	63	iPKPd	03	35.10	-2.1							
III	92.42	62	eP	57	12.00	1.3	HJA	145.45	64	ePKPc	03	38.20	0.3							
PTO	92.52	343	ePKP	57	09.50	-1.1	NVL	145.88	204	ePKP	03	38.00	0.7							
TOL	92.64	339	iP+	57	11.00	-0.2		Z 21s		41.00um			7.2Msz							
			i	57	26.00			N 21s		29.00um										
			i	58	50.00			E 21s		18.00um										
			iPP	01	00.00		TLL	146.27	79	iPKP	03	39.00	-0.5							
			iSKS	08	02.00		SLA	146.45	66	iPKPd	03	41.00	1.2							
			iS	08	16.00		VCA	147.24	74	ePKPc	03	41.00	0.0							
			i(PS)	09	50.00		ROCH	147.67	83	iPKP	03	42.30	0.7							
			iSS	14	44.00		JACH	147.82	82	iPKP	03	43.90	2.2							
			iSSS	18	35.00		LNV	147.89	85	ePKP	03	44.00	2.4							
ARO	92.77	289	iP+	57	14.30	2.2	PEL	148.00	83	iPKPc	03	44.60	2.7X							
ALI	93.08	336	iP+	57	15.00	1.8	SAN	148.17	84	iPKP	03	45.00	2.8X							
			iPP	01	05.00		BACH	148.24	83	ePKP	03	48.00	5.7X							
VHO	94.99	60	iP	57	26.00	3.4X	BAO	148.40	31	iPKPc	03	45.10	2.0							
ALM	95.04	337	eP	57	37.90	15.6X	RTCB	148.44	79	ePKPc	03	44.30	1.6							

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Explanation of Entries in This Table

Hypocentral coordinates are determined by a modified Geiger's method and may be constrained by reported first arriving P-waves, Pdiff, and the DF branch of PKP. Data are corrected for station elevation and for the ellipticity of the Earth. Outliers may be truncated (ie., removed from the calculation) either automatically or manually. The solution is allowed to converge between rounds of automatic truncation to insure a unique result. Convergence is aided by step length damping.

The formal standard errors of the computed hypocentral coordinates (Flinn, 1965) are based on the assumption of independent normally distributed random errors in the raw data, and tend to be underestimates. Care should be exercised in interpreting these numbers in terms of absolute location accuracy because of unmodeled biases. Analysis of events with independently known coordinates indicates that most PDE determinations are accurate to a few tenths of a degree in epicentral position and 25 km in depth. For special studies, we urge that inquiry be made to this office for possible recomputation of hypocenters of interest, using more complete instrumental data.

Restricted focal depths occur in four instances. If at any point in the computation the depth becomes negative, the solution is automatically restricted at 33 km and indicated by "NORMAL DEPTH". If the unrestricted depth computation is unsatisfactory, and in the judgment of the reviewing geophysicist the earthquake probably has a shallow focus, a solution may be held at 33 km. These are also indicated by "NORMAL DEPTH". The geophysicist may restrain the depth at any value indicated by evidence from available seismograms. These are indicated by, for example, "DEPTH = 100 KM (GEOPHYSICIST)". If two or more pP phases are identified, and in general, yield depths within 10 km of the mean, then the depth is automatically restricted to this value and denoted by, for example, "DEPTH = 51 KM (5 DEPTH PHASES)". pP phases may also appear as unidentified second arrivals with associated travel-time residuals. Hypocentral coordinates derived from other sources, such as the California Institute of Technology, the University of California at Berkeley, and ERDA are noted on the EDR.

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T)+Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66\log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20° \leq \Delta \leq 160°$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5°$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

The travel-time residual (observed − computed) is based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Phases not used in the computation are marked by an X. The azimuth from the epicenter to the station is measured clockwise from north. The epicentral distance is the central angle in degrees.

Hypocenter Symbols

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.

Note: On printers available to the NEIS for this publication, the symbol for degrees (°) appears as "`".

Table 4-216

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Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.