

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Earthquake Data Archiving and Retrieval System: Archived Data
Sets in the Standardized Library — SL000001 to SL000100

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This report is preliminary and has not been reviewed for
conformity with U.S. Geological Survey editorial standards.

INTRODUCTION

The USGS Earthquake Data Archiving and Retrieval System has been implemented using the computing facility of the Stanford Linear Accelerator Center (SLAC). The design and implementation of the system are described in Lee, Scharre and Crane (1983), and Crane, Lee, and Newberry (1984). Readers who are interested in using this system to query and retrieve earthquake data are referred to the Users' Manual (Crane, Lee and O'Neill, 1985).

The purpose of this report is to complement the above mentioned references in giving the readers a quick guide to what earthquake data sets are available in the system's Standardized Library as of April 30, 1985. It is the first of a series of reports devoted to this purpose.

EARTHQUAKE DATA ARCHIVING AND RETRIEVAL SYSTEM

The USGS Earthquake Data Archiving and Retrieval System is designed to archive any existing earthquake related data. Because numerous formats exist for these data, it is not practical to force everyone to adopt a uniform format. Therefore, we have set up three distinct libraries for storing, querying, and retrieving of earthquake data: (1) A General Library for data sets with arbitrary data structures and formats, (2) a Standardized Library for data sets using a standardized structure and recommended formats, and (3) two Waveform Libraries to handle the extremely large volume of seismic waveform data.

Figure 1 on page 3 briefly illustrates how the System works. The data sets are provided by contributors in the form of magnetic tapes or punched cards with description of contents and formats. These input data sets are first read onto a disk for editing with the "Edit System". An archivist then uses the "Archive System" to place the edited data sets onto a "Staging Disk" and then archival tapes. In the archiving process, data sets are copied, verified, and indexed in a "Database". Subsequently, the "Backup System" is used to backup the archived data sets independently via the SLAC Archive System. From the users' point of view, they may use the "Query System" to search the "Database" for the desired data sets. The result of a search is a list of pointers to the desired data sets on the archival tapes. The pointers are then used to display or retrieve specific datasets.

Because of the vast amounts of earthquake-related data, it is not economical or necessary to have all the data online. However, we do keep a sample of all the archived data sets online.

DATA SAMPLES

This document is essentially a catalog in a tabular form of the first 100 datasets archived as of April 30, 1985 from the Standardized Library (SL). Each table is a separate dataset sample showing all of the dataset's explanatory material plus a short sampling of the data. To save space we have replaced large blocks of duplicate explanatory format material with a reference to a previous dataset sample. Data sets were archived in the order of

our processing. As a result, the data set names were assigned sequentially without regards to topics. To aid readers in quickly finding out what are archived in the first 100 data sets of the Standardized Library, a major breakdown by topics is as follows:

1. Hypocenter data files of the California Institute of Technology (1932-1975): SL000001 to SL000010.
2. Kanamori explosion experiment--phase and summary data (1974-1980): SL000011.
3. University of Southern California--summary and phase data (1973-1980): SL000012.
4. Station list for the California Institute of Technology (1982): SL000013.
5. Station list for the University of Southern California (1982): SL000014.
6. Hypocenters and phase data for Southern California earthquakes compiled by the California Institute of Tehcnology (1960-1976): SL000015 to SL000025, and SL000054 to SL000060.
7. Hypocenter data files of the International Seismological Centre (1904-1980): SL000026 to SL000053.
8. Summary and phase data files for California earthquakes from the International Seismological Centre (1971-1980): SL000061 to SL000071.
9. NEIS Station Master File (1983): SL000072.
10. Summary data from the USGS/CUSP Processing System (1984): SL000073 to SL000079.
11. Edited digital waveform data, spectral estimates, and coda Q results for Mammoth Lake earthquakes (1984): SL000080 to SL000100.

Two indexes are provided at the end of this document, one by title and the other by persons who are involved in preparing the datasets.

Because of the large volume of data involved, some errors are unavoidable. We will appreciate readers informing us about any errors they discover. We will also welcome any suggestions for improvements.

REFERENCES

- Lee, W.H.K, Scharre, D.C., and Crane, G.R. (1983). A computer-based system for Organizing Earthquake-Related Data. U.S. Geological Survey Open-File Report 83-518, 28 pp.
- Crane, G.R., Lee, W.H.K., and Newberry, J.T. (1984). USGS Earthquake Data Archiving and Retrieval System: Reference Manual, U.S. Geological Survey Open-File Report 84-840, 159 pp.
- Crane, G.R., Lee, W.H.K., and O'Neill, M. (1985). USGS Earthquake Data Archiving and Retrieval System: User's Manual, U.S. Geological Survey Open-File Report 85-365, 254 pp.

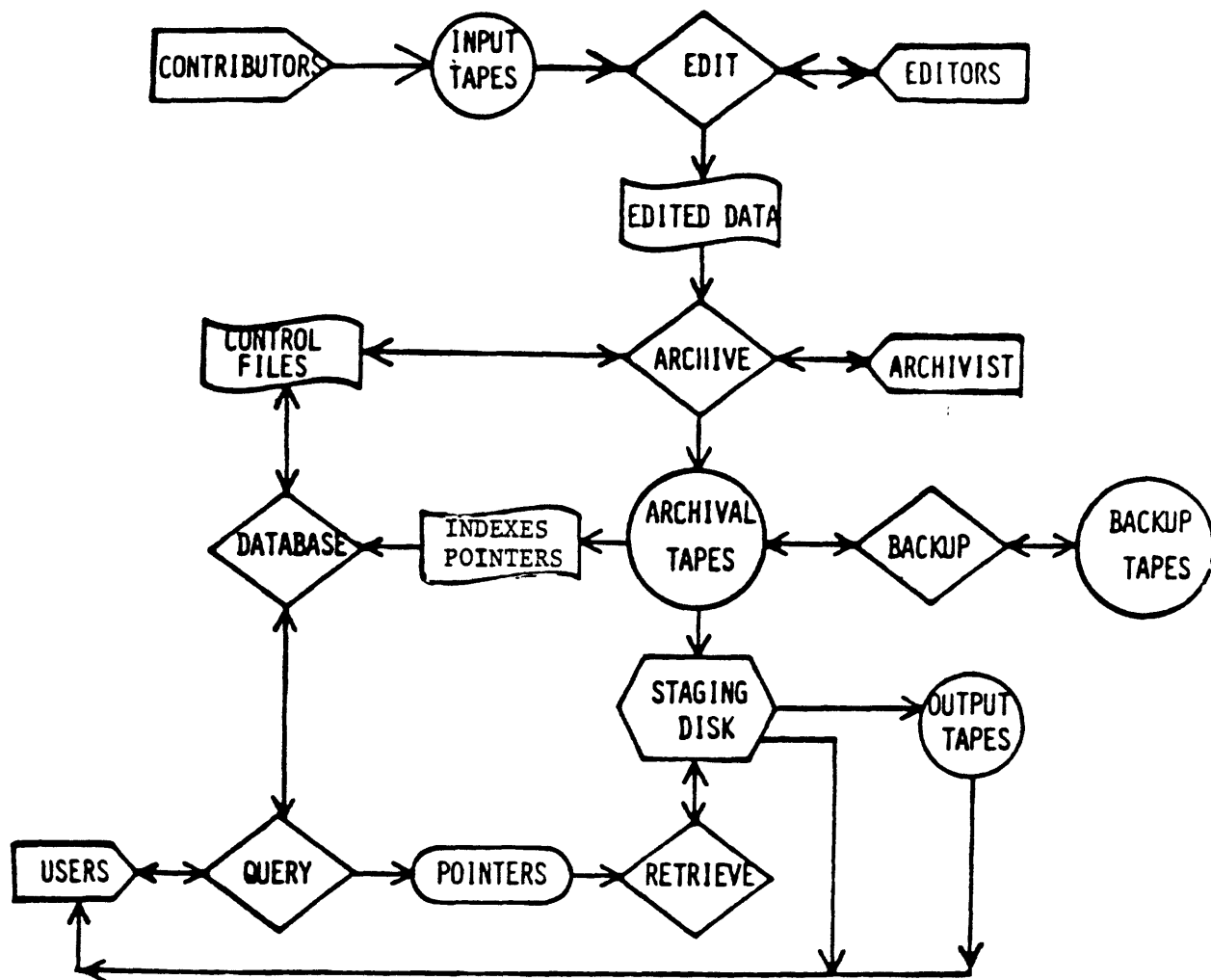


FIGURE 1: Overall scheme for organizing earthquake-related data.

Table SL000001

C#DSN=SL000001;SIZE=003314;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=001;STRT=000001;
 C*DATE: 19770322; 0; SUM38;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19300102; 19391231; 28.000N; 39.0833N; 126.000W; 113.8000W; ; S001;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEARS FROM 1932 TO 1939
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000038 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD
 C*

C* COLUMNS	FORMAT	ITEM	EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C* 22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C* 25	(A1)	blank	A blank space for easy reading.
C* 26-30	(F5.2)	ORTIME	Origin time; normally the seconds

C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, HYDEP		Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum inten-
C*				sity. PDE notation is used: 1 to 9
C*				for I to IX, X for X, E for XI, and
C*				T for XII.
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3,	GAP or	Maximum station gap in degrees (I3)
C*		or	MB	for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3,	DMIN or	Minimum station distance in km (I3)
C*		or	MS	for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS	RMS residual in seconds (F3.1) for
C*			OR M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80).
C*	80	(A1)	HYQUAL	HYP071 quality code for a local quake,
C*			or MCODE	or code for specifying M in columns
C*				77-79, e.g., U=unspecified, W=moment
C*				magnitude, etc.

C*END-----

S001	1932	1 2	1642	SUM	42.00	33.8833N	117.6333W	.	2.5R
S001	1932	1 3	1757	SUM	58.00	32.0333N	115.8333W	.	3.0R
S001	1932	1 3	2323	SUM	52.00	37.4500N	119.0000W	.	2.0R
S001	1932	1 4	2 2	SUM	53.00	37.4500N	119.0000W	.	2.0R
S001	1932	1 4	2130	SUM	2.00	33.9000N	117.6500W	.	2.0R
S001	1932	1 5	237	SUM	34.00	33.8667N	118.2833W	.	1.5R
S001	1932	1 6	8 8	SUM	39.00	33.8833N	117.6333W	.	2.0R
S001	1932	1 7	229	SUM	20.40	33.9000N	118.2000W	.	1.0R
S001	1932	1 7	539	SUM	20.00	34.1833N	117.2833W	.	1.0R
S001	1932	1 7	1455	SUM	30.00	32.0333N	115.8333W	.	3.0R

***** 3193 data cards not shown here *****

C#FINIS DSN=SL000001

Table SL000002

C#DSN=SL000002;SIZE=003629;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=001;STRT=003315;
 C*DATE: 19770322; 0; SUM39;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19400101; 19491231; 28.066N; 38.8667N; 124.667W; 113.000W; ; S002;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEARS FROM 1940 TO 1949
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000039 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000001 for details

C*END-----
 S002 1940 1 1 1249 SUM 29.00 32.5333N 116.1833W 3.5R
 S002 1940 1 1 1842 SUM 29.00 33.4167N 115.8000W 3.5R
 S002 1940 1 4 715 SUM 32.00 34.0167N 117.2667W 2.5R
 S002 1940 1 4 8 7 SUM 11.00 33.3000N 116.3000W 4.0R
 S002 1940 1 5 620 SUM 52.00 33.1500N 119.4500W 4.0R
 S002 1940 1 5 842 SUM 55.00 33.1667N 116.4167W 3.0R
 S002 1940 1 7 5 3 SUM 6.00 33.3833N 115.6000W 3.5R
 S002 1940 1 7 712 SUM 41.00 33.3833N 115.6000W 3.5R
 S002 1940 111 340 SUM 21.00 33.7833N 118.1333W 3.5R
 S002 1940 112 16 0 SUM 43.00 33.6667N 117.2167W 3.0R
 ***** 3508 data cards not shown here *****
 C#FINIS DSN=SL000002

Table SL000003

C#DSN=SL000003;SIZE=004316;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=001;STRT=006944;
 C*DATE: 19770322; 0; SUM40;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19500103; 19591231; 30.000N; 40.500N; 125.500W; 112.000W; ; S003;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEARS FROM 1950 TO 1959
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000040 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000001 for details

C*END-----
 S003 1950 1 3 1127 SUM 28.00 33.8667N 115.8333W 1.0R
 S003 1950 1 3 1726 SUM 38.00 34.0500N 117.3000W 2.8R
 S003 1950 1 4 1638 SUM 46.36 34.1390N 117.7383W 3.6 2.4R
 S003 1950 1 5 724 SUM 9.00 33.8333N 115.8000W 2.9R
 S003 1950 1 5 1251 SUM 30.00 34.2667N 117.0000W 2.4R
 S003 1950 1 5 1346 SUM 49.00 33.6833N 119.1833W 3.2R
 S003 1950 1 7 937 SUM 35.00 32.1000N 116.6000W 4.0R
 S003 1950 1 9 1324 SUM 57.03 34.1142N 116.8895W 3.0 3.9R
 S003 1950 1 9 1329 SUM 30.00 35.1167N 116.8500W 2.4R
 S003 1950 1 9 2140 SUM 36.00 33.8333N 116.1333W 3.1R
 ***** 4195 data cards not shown here *****
 C#FINIS DSN=SL000003

Table SL000004

C#DSN=SL000004;SIZE=003782;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=000001;
 C*DATE: 19770322; 0; SUM41;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19600102; 19691231; 29.000N; 41.800N; 127.500W; 111.000W; ; 5004;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEARS FROM 1960 TO 1969
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000041 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C* 22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C* 25	(A1)	blank	A blank space for easy reading.
C* 26-30	(F5.2)	ORTIME	Origin time; normally the seconds

C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, HYDEP		Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum inten-
C*				sity. PDE notation is used: 1 to 9
C*				for I to IX, X for X, E for XI, and
C*				T for XII.
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, GAP or		Maximum station gap in degrees (I3)
C*		or MB		for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, DMIN or		Minimum station distance in km (I3)
C*		or MS		for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS	RMS residual in seconds (F3.1) for
C*			OR M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80).
C*	80	(A1)	HYQUAL	HYP071 quality code for a local quake,
C*			or MCODE	or code for specifying M in columns
C*				77-79, e.g., U=unspecified, W=moment
C*				magnitude, etc.

C*

C*NOTES: ONE LINE OF THE ORIGINAL DATA FILE APPEARS TO HAVE

C* A TYPOGRAPHIC ERROR IN THE REPORT FOR 1968 1115.

C* IT APPEARS THAT '006' WAS ENTERED INSTEAD OF '116'.

C* THIS VALUE WAS NOT CHANGED DURING CONVERSION.

C*END-----

S004	1960	1 2	711	SUM	19.00	33.7667N	118.5833W	2.4R
S004	1960	1 2	2251	SUM	48.00	35.4000N	121.2000W	4.0R
S004	1960	1 3	2051	SUM	12.00	32.1000N	115.6000W	4.0R
S004	1960	1 3	21 8	SUM	12.00	31.5000N	115.5000W	4.0R
S004	1960	1 4	1218	SUM	20.00	36.2000N	120.7000W	3.2R
S004	1960	1 5	18 7	SUM	43.00	34.0333N	117.7333W	3.0R
S004	1960	1 6	2052	SUM	15.00	35.0167N	118.5000W	2.8R
S004	1960	1 7	1751	SUM	30.00	32.3000N	115.6000W	4.1R
S004	1960	1 8	651	SUM	22.00	33.4667N	116.4500W	3.1R
S004	1960	1 8	1443	SUM	4.00	33.8500N	118.3667W	2.4R

***** 3656 data cards not shown here *****

C#FINIS DSN=SL000004

Table SL000005

C#DSN=SL000005;SIZE=000589;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=003783;
C*DATE: 19770322; 0; SUM42;
C*CLASS: EARTHQUAKE; SUMMARY;
C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
C*PERSN: WHITCOMB; J. T. NEWBERRY;
C*ALPHA: 19700101; 19701231; 30.783N; 39.044N; 122.192W; 114.901W; ; S005;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1970
C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
C* WHITCOMB
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000042 FROM THE CIT
C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C* 22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C* 25	(A1)	blank	A blank space for easy reading.
C* 26-30	(F5.2)	ORTIME	Origin time; normally the seconds

C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1,	HYDEP	Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum inten-
C*				sity. PDE notation is used: 1 to 9
C*				for I to IX, X for X, E for XI, and
C*				T for XII.
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3,	GAP or	Maximum station gap in degrees (I3)
C*		or	MB	for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3,	DMIN or	Minimum station distance in km (I3)
C*		or	MS	for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS	RMS residual in seconds (F3.1) for
C*			OR M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80).
C*	80	(A1)	HYQUAL	HYP071 quality code for a local quake,
C*			or MCODE	or code for specifying M in columns
C*				77-79, e.g., U=unspecified, W=moment
C*				magnitude, etc.

C*

C*END-----

S005	1970	1	1	1513	SUM	21.80	32.8010N	115.4443W	10.0	2.6R
S005	1970	1	1	1949	SUM	26.28	37.3425N	118.7632W	8.0	3.8R
S005	1970	1	1	2057	SUM	45.57	36.5867N	121.5943W	8.0	3.3R
S005	1970	1	2	1045	SUM	20.66	34.1678N	119.6702W	10.0	3.1R
S005	1970	1	2	2147	SUM	56.04	35.7437N	117.8487W	10.0	2.6R
S005	1970	1	3	251	SUM	58.32	37.2505N	122.1540W	08.0	3.9R
S005	1970	1	3	1948	SUM	40.80	33.9623N	116.8438W	10.0	3.2R
S005	1970	1	4	227	SUM	15.76	34.3053N	116.8450W	8.0	2.7R
S005	1970	1	5	12 4	SUM	36.65	33.1787N	116.0598W	10.0	3.1R
S005	1970	1	6	229	SUM	7.45	36.5717N	121.0812W	8.0	4.0R

***** 467 data cards not shown here *****

C#FINIS DSN=SL000005

Table SL000006

C#DSN=SL000006;SIZE=000956;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=004372;
 C*DATE: 19770322; 0; SUM43;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19710101; 19711231; 31.233N; 39.234N; 122.362W; 114.898W; ; 5006;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1971
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000043 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000005 for details

C*END-----
 S006 1971 1 1 2036 SUM 18.44 33.9653N 119.3968W 8.0 3.0R
 S006 1971 1 2 219 SUM 13.08 35.7633N 117.5717W 8.0 2.8R
 S006 1971 1 2 237 SUM 50.32 35.8143N 117.5503W 8.0 3.0R
 S006 1971 1 2 627 SUM 37.12 35.9332N 120.4423W 8.0 3.3R
 S006 1971 1 2 759 SUM 8.02 35.7012N 117.5593W 8.0 2.8R
 S006 1971 1 2 1119 SUM 28.78 35.8487N 117.4992W 8.0 3.0R
 S006 1971 1 4 537 SUM 56.42 35.8903N 117.5212W 8.0 3.0R
 S006 1971 1 5 614 SUM 45.04 34.0360N 117.9365W 8.0 3.6R
 S006 1971 1 6 2253 SUM 1.02 35.0783N 118.3368W 8.0 2.8R
 S006 1971 1 8 2323 SUM 14.62 34.8165N 116.2653W 8.0 3.0R
 ***** 834 data cards not shown here *****
 C#FINIS DSN=SL000006

Table SL000007

C#DSN=SL000007;SIZE=000860;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=005328;
 C*DATE: 19770322; 0; SUM44;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19720101; 19721231; 30.414N; 37.790N; 121.687W; 115.000W; ; S007;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1972
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000044 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000005 for details

C*END-----
 S007 1972 1 1 1437 SUM 30.03 34.3015N 118.3448W 9.73 1.7R
 S007 1972 1 2 447 SUM 10.90 34.1603N 116.7180W 08.0 2.8R
 S007 1972 1 6 259 SUM 33.59 34.3252N 118.2995W 0.07 2.5R
 S007 1972 1 6 8 4 SUM 1.07 34.3398N 118.4190W 4.79 1.7R
 S007 1972 1 6 1010 SUM 35.26 35.7065N 118.3217W 08.0 3.6R
 S007 1972 1 6 1032 SUM 59.95 34.3452N 118.3925W 3.38 1.7R
 S007 1972 1 6 1626 SUM 52.89 34.1692N 117.4105W 08.0 2.8R
 S007 1972 1 7 4 8 SUM 25.27 33.2627N 116.8380W 11.7 3.4R
 S007 1972 1 9 425 SUM 24.25 31.8958N 116.1150W 08.0 3.6R
 S007 1972 110 053 SUM 7.41 34.3917N 118.4017W 5.00 1.7R
 ***** 738 data cards not shown here *****
 C#FINIS DSN=SL000007

Table SL000008

C#DSN=SL000008;SIZE=001365;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=006188;
 C*DATE: 19770322; 0; SUP'45;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19730101; 19731231; 31.367N; 37.875N; 121.632W; 111.001W; ; S008;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1973
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000045 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000005 for details

C*END-----
 S008 1973 1 1 055 SUM 55.17 34.1725N 117.5457W 5.0 1.7R
 S008 1973 1 2 245 SUM 48.57 33.6235N 117.3187W 08.0 3.1R
 S008 1973 1 3 059 SUM 38.19 34.8175N 116.3222W 08.0 2.6R
 S008 1973 1 3 321 SUM 53.90 31.5745N 115.7162W 08.0 3.7R
 S008 1973 1 3 630 SUM 44.27 32.6075N 115.2693W 08.0 2.3R
 S008 1973 1 3 2247 SUM 23.36 34.3780N 118.4048W 8.74 1.7R
 S008 1973 1 3 2252 SUM 49.73 34.4287N 118.4017W 13.12 1.7R
 S008 1973 1 4 337 SUM 47.98 33.9990N 117.2145W 7.33 1.7R
 S008 1973 1 4 2031 SUM 8.81 34.1590N 119.5903W 08.0 2.6R
 S008 1973 1 4 2055 SUM 18.81 34.2180N 118.2193W 4.37 1.7R
 ***** 1243 data cards not shown here *****
 C*FINIS DSN=SL000008

Table SL000009

C#DSN=SL000009;SIZE=001364;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=007553;
 C*DATE: 19770322; 0; SUM46;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19740101; 19741231; 28.215N; 38.820N; 121.607W; 112.961W; ; 5009;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1974
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000046 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000005 for details

C*END-----
 5009 1974 1 1 322 SUM 53.36 35.9350N 118.1220W 3.58 2.4R
 5009 1974 1 2 850 SUM 30.03 34.3288N 118.3947W 1.18 1.1R
 5009 1974 1 2 1027 SUM 53.89 34.4315N 118.4128W 12.92 1.7R
 5009 1974 1 2 1132 SUM 13.26 34.2783N 118.4322W 5.00 1.8R
 5009 1974 1 2 13 4 SUM 13.96 34.3163N 117.6405W 5.59 1.6R
 5009 1974 1 2 1349 SUM 55.95 35.5515N 117.2637W 6.50 4.2R
 5009 1974 1 3 020 SUM 30.45 34.3267N 118.2783W 7.98 1.2R
 5009 1974 1 3 549 SUM 21.99 33.0998N 115.6285W 14.8 2.7R
 5009 1974 1 4 2 0 SUM 31.19 31.7118N 115.9993W 5.13 2.7R
 5009 1974 1 4 239 SUM 44.77 34.3503N 118.4200W 5.41 2.0R
 ***** 1242 data cards not shown here *****
 C#FINIS DSN=SL000009

Table SL000010

C#DSN=SL000010;SIZE=002998;DATE=030584;ARCH=JN;TAPE=SM9302;FILE=002;STRT=008917;
 C*DATE: 19770322; 0; SUM47;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: C. R. ALLEN; M. E. FRIEDMAN; J. A. HILEMAN; J. M. NORDQUIST; J. H.
 C*PERSN: WHITCOMB; J. T. NEWBERRY;
 C*ALPHA: 19750101; 19751231; 28.741N; 37.826N; 121.500W; 111.595W; ; S00A;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY (CIT) FOR THE YEAR 1975
 C*AUTHOR: C. R. ALLEN, M. E. FRIEDMAN, J. A. HILEMAN, J. M. NORDQUIST, AND J. H.
 C* WHITCOMB
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000047 FROM THE CIT
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000137
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000005 for details

C*END-----

S00A	1975	1	1	316	SUM	29.41	35.2587N	118.5300W	6.14	2.1R
S00A	1975	1	1	751	SUM	38.76	34.2188N	117.4425W	8.00	2.9R
S00A	1975	1	1	1315	SUM	30.04	34.3823N	118.4337W	8.00	2.1R
S00A	1975	1	1	1957	SUM	28.52	35.1155N	116.5718W	8.00	2.4R
S00A	1975	1	1	2028	SUM	29.67	35.3630N	118.4908W	5.44	2.4R
S00A	1975	1	2	938	SUM	59.45	30.7858N	116.3078W	8.00	3.1R
S00A	1975	1	2	1934	SUM	22.28	30.7982N	116.0603W	8.00	3.8R
S00A	1975	1	2	2031	SUM	33.78	33.8960N	115.5383W	0.18	2.6R
S00A	1975	1	3	555	SUM	31.71	33.5370N	117.6523W	3.95	3.8R
S00A	1975	1	3	60	SUM	53.14	33.5363N	117.6542W	3.78	3.4R

***** 2876 data cards not shown here *****

C#FINIS DSN=SL000010

Table SL000011

C*DSN=SL000011;SIZE=001627;DATE=031584;ARCH=JN;TAPE=SM9302;FILE=003;STRT=000001;
 C*DATE: 19821004; 0; KANEXP;
 C*CLASS: EXPLOSION; SUMMARY; PHASE;
 C*PERSN: K. PIPER;
 C*ALPHA: 19740123; 19800425; 33.0149N; 35.0390N; 118.7635W; 115.0091W; ; 500B;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: KANAMORI EXPLOSION EXPERIMENT PHASE AND SUMMARY DATA READ BY THE
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY FROM 1974 TO 1980.
 C*AUTHOR: H. KANAMORI
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET WAS EXTRACTED FROM A TAPE SENT BY KEN PIPER IN 1982.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS
 C*
 C* THE FILE IS ARRANGED SUCH THAT AN EXPLOSION SUMMARY
 C* CARD IS FOLLOWED BY THE RELEVANT PHASE CARDS.
 C*
 C* THE EXPLOSION SUMMARY CARD APPEARS AS FOLLOWS:
 C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	
C*	06-09	(I4)	EVYEAR	4 digits for the year of the blast.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the blast.
C*	13-14	(I2)	EVDAY	2 digits for the day of the blast.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the blast.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the blast.
C*	20	(A1)	EVINDX	Event index if there are more than one blast within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'EXP'
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1)	blank	
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W

C* for the western hemisphere.

C* 50-80 (A1) blank

C*

C* THE PHASE CARD APPEARS AS FOLLOWS:

C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(I4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	
C*	06-09	(I4)	EVYEAR	4 digits for the year of the blast.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the blast.
C*	13-14	(I2)	EVDAY	2 digits for the day of the blast.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the blast.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the blast.
C*	20	(A1)	EVINDX	Event index if there is more than one blast within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'PHA'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-29	(A4)	PHAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)		4-character code for the station name; the last character usually denotes the component of the instrument.
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.
C*	35-38	(A4)	PHPRMK	4-character code for the P-phase remark.
C*	39	(A1)	blank	
C*	40-44	(F5.2)	PHPARR	P-phase arrival time in seconds.
C*	45	(A1)	blank	
C*	46-49	(A4)	PHSRMK	4-character code for the S-phase remark.
C*	50	(A1)	blank	
C*	51-55	(F5.2)	PHSARR	S-phase arrival time in seconds.
C*	56	(A1)	blank	
C*	57-60	(I4)	PHFMP	Signal duration in seconds.
C*	61	(A1)	blank	
C*	62-64	(A3)	PHRMK	General remark.
C*	65	(A1)	blank	
C*	66-69	(F4.1)	AMPX	Maximum trace amplitude (peak-to peak) in mm.
C*	70	(A1)	blank	

C* 71-74 (F4.2) PRX Period in seconds associated
 C* with the maximum trace amplitude.
 C* 75-80 (F6.2) DT Clock correction in seconds to
 C* be added to the arrival times.

C*END-----

S00B	1974	123	2151	EXP	3.17	35.0390N	118.3203W			
S00B	1974	123	2151	PHA CIT IRC	IPU	16.00		.		
S00B	1974	123	2151	PHA CIT PYR	IPU	14.89	S			
S00B	1974	123	2151	PHA CIT PASZ	EP	21.35	ES	34.00	28	
S00B	1974	123	2151	PHA CIT GSC	EPU	22.00	ES	45.50	41	
S00B	1974	123	2151	PHA CIT ISA	IPU	15.30	IS	24.00	44	
S00B	1974	123	2151	PHA CIT MWC	IPU	19.50	IS	31.20	38	
S00B	1974	123	2151	PHA CIT PLM	EP	41.00	ES	70.40	30	
S00B	1974	123	2151	PHA CIT RVRZ	IPD	28.50	ES	46.60	45	
S00B	1974	123	2151	PHA CIT SYP	EP	32.10	S		45	

***** 1502 data cards not shown here *****

C#FINIS DSN=SL000011

Table SL000012

C#DSN=SL000012;SIZE=007372;DATE=031584;ARCH=JN;TAPE=SM9302;FILE=003;STRT=001628;
 C*DATE: 19821004; 0; USCDATA;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER;
 C*ALPHA: 19730206; 19801230; 33.182N; 34.596N; 119.212W; 117.173W; ; 500C;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: U.S.C. SUMMARY AND PHASE DATA FOR THE YEARS 1973 THROUGH 1980
 C*AUTHOR: UNIV. OF SOUTHERN CALIFORNIA
 C*INSTITUTION: UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, 90007
 C*ABSTRACT: THIS DATA SET WAS EXTRACTED FROM A TAPE SENT BY KEN PIPER IN 1982.
 C* SEVERAL FILES WERE MERGED TO PRODUCE A DATA SET CONTAINING BOTH
 C* SUMMARY AND PHASE DATA.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS
 C*
 C* THE FILE IS ARRANGED SUCH THAT AN EVENT SUMMARY
 C* CARD IS FOLLOWED BY THE RELEVANT PHASE CARDS.
 C* IF NO SUMMARY INFORMATION WAS GIVEN, A BLANK CARD
 C* APPEARS IN ITS PLACE, PRECEDING THE PHASE CARDS.
 C*
 C* THE SUMMARY CARD APPEARS AS FOLLOWS:
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source C* to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the C* quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; C* If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one C* quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes C* are used for a data record, then DATCOD=k C* where k is the card sequence number with- C* in the data record, e.g., 1, 2, ..., 9, C* A, B, ..., Z, up to 35 cards. If any C* data record exceeds 35 cards (2800 bytes), C* then DATCOD=* and the last data card must be C* blank, except "END" in columns 22-24.
C* 22-24	C* (A3)	C* DATKEY	C* 3-letter code serving as a data key C* to the kind of data that follows, C* in this case, 'SUM'
C* 25	C* (A1)	C* blank	C* A blank space for easy reading.
C* 26-30	C* (F5.2)	C* ORTIME	C* Origin time; normally the seconds C* portion only.
C* 31	C* (A1)	C* TMUNIT	C* 1-character code for the time unit; C* For some old quakes, the ORTIME may

```
C*                                     differ from the identification date
C*                                     and time. Use Y for year, N for
C*                                     month, D for day, H for hour, M
C*                                     for minute, and blank for second.
C* 32-38      (F7.4)  HYLAT    Hypocenter latitude in degrees.
C* 39          (A1)   HYN5     N for the northern hemisphere or S
C*                                     for the southern hemisphere.
C* 40          (A1)   blank
C* 41-48      (F8.4)  HYLON    Hypocenter longitude in degrees.
C* 49          (A1)   HYEW     E for the eastern hemisphere or W
C*                                     for the western hemisphere.
C* 50          (A1)   blank
C* 51-55      (F5.1, HYDEP    Focal depth in km; decimal places
C*            or F5.2)       depends on teleseismic event (F5.1)
C*                                     or local quake (F5.2).
C* 56          (A1)   HYDEPC    1-character code for how focal depth
C*                                     is determined; A=assigned, D=re-
C*                                     strained by pP, H=held at fixed
C*                                     depth, etc.
C* 57          (A1)   blank     May be used for negative magnitude.
C* 58-60      (F3.1)  ML        Local magnitude.
C* 61          (A1)   MLCODE    1-character code for the type of
C*                                     local magnitude; R=Richter scale
C*                                     using Wood-Anderson seismograms
C*                                     was assumed for this data set, due
C*                                     to the institution involved and time period
C*                                     considered.
C* 62          (A1)   blank
C* 63          (A1)   MAXINT    1-character code for maximum inten-
C*                                     sity. PDE notation is used: I to 9
C*                                     for I to IX, X for X, E for XI, and
C*                                     T for XII.
C* 64          (A1)   blank
C* 65-67      (I3)   NUMPHA    Total number of phase readings for
C*                                     locating the quake.
C* 68          (A1)   blank
C* 69-71      (I3, GAP or    Maximum station gap in degrees (I3)
C*             or MB         for a local quake, or body-wave mag-
C*             F3.1)         nitude (F3.1) for a teleseismic event.
C* 72          (A1)   blank
C* 73-75      (I3, DMIN or    Minimum station distance in km (I3)
C*             or MS         for a local quake, or surface-wave
C*             F3.1)         magnitude (F3.1) for a teleseismic
C*                                     event.
C* 76          (A1)   blank
C* 77-79      (F3.1)  RMS      RMS residual in seconds (F3.1) for
C*                OR M        a local quake, or any magnitude
C*                                     (F3.1) for a teleseismic event (to be
C*                                     specified by MCODE in column 80).
C* 80          (A1)   HYQUAL    HYP071 quality code for a local quake,
C*                or MCODE      or code for specifying M in columns
C*                                     77-79, e.g., U=unspecified, W=moment
C*                                     magnitude, etc.
C*
C* THE PHASE CARD APPEARS AS FOLLOWS:
```

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(I4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	Space for overflow if year of the quake is B.C.
C*	06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'PHA'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-29	(A4)	PHAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)		4-character code for the station name; the last character usually denotes the component of the instrument.
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.
C*	35-38	(A4)	PHPRMK	4-character code for the P-phase remark.
C*	39	(A1)	blank	
C*	40-44	(F5.2)	PHPARR	P-phase arrival time in seconds.
C*	45	(A1)	blank	
C*	46-49	(A4)	PHSRMK	4-character code for the S-phase remark.
C*	50	(A1)	blank	
C*	51-55	(F5.2)	PHSARR	S-phase arrival time in seconds.
C*	56	(A1)	blank	
C*	57-60	(I4)	PHFMP	Signal duration in seconds.
C*	61	(A1)	blank	
C*	62-64	(A3)	PHRMK	General remark.
C*	65	(A1)	blank	
C*	66-69	(F4.1)	AMPX	Maximum trace amplitude (peak-to peak) in mm.
C*	70	(A1)	blank	
C*	71-74	(F4.2)	PRX	Period in seconds associated with the maximum trace amplitude.
C*	75-80	(F6.2)	DT	Clock correction in seconds to

C* be added to the arrival times.

C*

C*NOTES: *****WARNING*****

C*

C* SOME UNUSUAL LINES APPEAR IN THIS DATA SET.

C* THEY CAN BE DETECTED BY LOOKING FOR '*****' AS PART

C* OF THE LATITUDE AND/OR LONGITUDE VALUES ON SOME OF

C* THE SUMMARY CARDS.

C*

C* BELOW ARE LISTED THE UNUSABLE LINES WHICH WERE EDITED OUT

C* OF THE DATA SET: (EDITOR: JN)

C*

C* 19 7 4033 011 SUM 0.0 34.8333N 118*****W 0.0 2.4D 0 0 0 0.0

C* 19 7 4040 1 4 SUM 0.0 34.1667N 118*****W 0.0 2.8D 0 0 0 0.0

C* 19 7 4040 013 SUM 0.0 34.5000N 118*****W 0.0 2.9D 0 0 0 0.0

C* 19 7 4051 062 SUM 0.0 33*****N 118*****W 0.0 2.1D 0 0 0 0.0

C* 19 7 4051 062 SUM 0.0 33*****N 118*****W 0.0 2.1D 0 0 0 0.0

C* 19 0 0 0 0 0 SUM 0.0 0.0 N 0.0 W 0.0 0.0D 0 0 0 0.0

C* 19 0 0 0 0 0 SUM 0.0 0.0 N 0.0 W 0.0 0.0D 0 0 0 0.0

C* 19 9 0 2 115 PHA USC -- I-C 23.94 45

C*END-----

S00C

S00C 1973 1 8 20 0 PHA USC BHR EPC 23.43

S00C 1973 1 8 20 0 PHA CIT SPH IPC 21.44

S00C 1973 1 8 20 0 PHA CIT SCR IPD 23.96 100

S00C 1973 1 8 20 0 PHA CIT SJR IPC 15.58

S00C 1973 1 8 20 0 PHA CIT VPD IPC 12.91 120

S00C 1973 1 8 20 0 PHA CIT TCN IPD 17.63 100

S00C

S00C 1973 2 4 230 PHA CIT TCN IPD 58.73

S00C 1973 2 4 230 PHA USC LCM EP+0 59.25

***** 7175 data cards not shown here *****

C*FINIS DSN=SL000012

Table SL000013

C#DSN=SL000013;SIZE=000323;DATE=031584;ARCH=JN;TAPE=SM9302;FILE=003;STRT=009000;
 C*DATE: 19821004; 0; CITSTNS;
 C*CLASS: EARTHQUAKE; STATION;
 C*PERSON: K. PIPER;
 C*ALPHA: ; 19820201; 30.816N; 37.055N; 120.511W; 114.022W; ; S00D;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STATION LIST FOR THE CALIFORNIA INSTITUTE OF TECHNOLOGY, AS OF
 C* FEBRUARY, 1982
 C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS LIST WAS EXTRACTED FROM A TAPE SENT BY KEN PIPER IN 1982
 C*REFERENCE:
 C*FORMAT: THIS DATA SET CONTAINS ONE TYPE OF CARD

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	
C*	06-09	(I4)	ONYEAR	4 digits for the year the station began operation.
C*	10	(A1)	blank	
C*	11-12	(I2)	ONMON	2 digits for the month of station beginning.
C*	13-14	(I2)	ONDAY	2 digits for the day of the station beginning.
C*	15	(A1)	blank	
C*	16-17	(I2)	ONHOUR	2 digits for the hour of station beginning.
C*	18-19	(I2)	ONMIN	2 digits for the minute of the station beginning.
C*	20	(A1)	blank	
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'STA'.
C*	25	(A1)	STWT	Station weight (normally blank).
C*	26-29	(A4)	STAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)	STNAME	4-character code for the station name; the last character usually denotes the component of the instrument.
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.

C* 35-41 (f7.4) STLAT Station latitude in degrees.
 C* 42 (A1) STNS N for the northern hemisphere or S
 C* for the southern hemisphere.
 C* 43 (A1) blank
 C* 44-51 (F8.4) STLON Station longitude in degrees.
 C* 52 (A1) STEW E for the eastern hemisphere or W
 C* for the western hemisphere.
 C* 53-57 (I5) STELEV Station elevation in meters.
 C* 58-59 (I2) STPMOD P model number for the station.
 C* 60-64 (F5.2) STPDLY Station P-delay in seconds.
 C* 65-66 (I2) STINCL Instrument class number for the
 C* station.
 C* 67-69 (I3) STATTN Station attenuation setting in dB.
 C* 70-74 (F5.2) STDT Station clock correction in seconds.
 C* 75-80 (3I2) OFFDAT Station off date (year,month,day).

C*END-----

S00D	STA CIT CNTR 34.0 N 118.0 W 0 0.0 0
S00D	STA CIT ABL 34.8508N 119.2208W 1981 0.0 1
S00D	STA CIT ADL 34.5563N 117.4170W 900 +0.30 1
S00D	STA CIT AMS 33.1413N 115.2542W 140 0.0 1
S00D	STA CIT BAR 32.6800N 116.6717W 549 0.0 1
S00D	STA CIT BARZ 32.6800N 116.6717W 549 0.0 4
S00D	STA CIT BARN 32.6800N 116.6717W 549 0.0 5
S00D	STA CIT BAT 33.4590N 115.8410W -18 0.0 1
S00D	STA CIT BCH 35.1850N 120.0842W 1140 0.0 1
S00D	STA CIT BC2 33.6570N 115.4612W 1185 0.0 1

***** 243 data cards not shown here *****

C#FINIS DSN=SL000013

Table SL000014

C#DSN=SL000014;SIZE=000117;DATE=031584;ARCH=JN;TAPE=SM9302;FILE=003;STRT=009323;
 C*DATE: 19821004; 0; USCSTNS;
 C*CLASS: EARTHQUAKE; STATION;
 C*PERSN: K. PIPER;
 C*ALPHA: ; 19820901; 33.407N; 34.560N; 120.400W; 117.762W; ; 500E;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: STATION LIST USED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA AS OF
 C* SEPTEMBER, 1982
 C*AUTHOR: UNIV. OF SOUTHERN CALIFORNIA
 C*INSTITUTION: UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, 90007
 C*ABSTRACT: THIS LIST WAS EXTRACTED FROM A TAPE SENT BY KEN PIPER IN 1982
 C*REFERENCE:
 C*FORMAT: THIS DATA SET CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000013 for details

C*END-----

S00E	STA USC DTI	33.7628N	118.2208W
S00E	STA USC FMA	33.7125N	118.2912W
S00E	STA USC LNA	33.7892N	118.0545W
S00E	STA USC RCP	33.7777N	118.1333W
S00E	STA USC LCL	33.8333N	118.2068W
S00E	STA USC GFP	34.1293N	118.3098W
S00E	STA USC LCM	34.0178N	118.2870W
S00E	STA USC HCM	33.9940N	118.3830W
S00E	STA USC IPC	33.9707N	118.3345W
S00E	STA USC DHB	34.0175N	118.3855W

***** 37 data cards not shown here *****

C#FINIS DSN=SL000014

Table SL000015

C*DSN=SL000015;SIZE=001147;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=000001;
 C*DATE: 19820518; 0; CPLCT60;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19600102; 19601231; 29.000N; 39.300N; 121.433W; 114.000W; ; 500F;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1960 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR:
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000070 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source C* to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the C* quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; C* If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one C* quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes C* are used for a data record, then DATCOD=k C* where k is the card sequence number with- C* in the data record, e.g., 1, 2, ..., 9, C* A, B, ..., Z, up to 35 cards. If any C* data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, HYDEP		Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3,	GAP or	Maximum station gap in degrees (I3)
C*		or	MB	for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3,	DMIN	Minimum station distance in km (I3)
C*		or	or MS	for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or	rms residual in seconds (F3.1) for
C*			M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C 1960 01 02 07 11 19.00	33 46.00 118 35.00	C 2.4 H04	8
C FTCIP 600131055522.10	51.10IS		
C 1960 04 14 20 45 23.00	32 52.00 115 29.00	B 3.3 Q02	8

C ECC P 6004142019 . 43.30IS

C*END-----

S00F 1960 1 2 711 CPL 19.00 33.7667N 118.5833W 2.4R 2
1 PASIP 2730 PASIS 3500 FTCEP 3890 FTCE5 5650 ISAIP 5320 ISAIS 7560
2 PLMEP 4670 PLMES 6450 RVRIP 3730 RVRIS 4900

S00F 1960 1 2 14 5 CPL 2
1 PASIP 5100 PASIS 8750 BARIP 1610 BARIS 3060 CLCEP 7440 CLCIS 12870
2 ISAIP 7690 ISAIS 13150 PLMEP 2610 PLMIS 5000 RVRIP 4080 RVRIS 7200

S00F 1960 1 2 2251 CPL 48.00 35.4000N 121.2000W 4.0R 4
1 PASIP 9380 PASIS 12810 CLCEP 9420 CLCIS 12660 BARIP 12000 BARIS 17350
2 HAIIF 9260 HAIIS 12430 ISAIPU 8340 ISAIS 18050 KRCIPU 7000 KRCIS 8770
3 PLMIP 11250 PLMIS 16130 RVRIP 10240 RVRIS 14310 SBCIP 8420 SBCIS 11010

***** 969 data cards not shown here *****

C#FINIS DSN=SL000015

Table SL000016

C#DSN=SL000016;SIZE=001717;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=001148;
 C*DATE: 19820518; 0; CPLCT61;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19610101; 19611231; 29.800N; 40.600N; 127.500W; 112.500W; ; 500G;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1961 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR:
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000071 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
 C* THE FIRST DIGIT OF THE SUMMARY LINES WAS CHANGED TO A 'C'.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C961 03 12 07 36 32.00 33 30.00 119 02.00 C 3.5 G04 8
 C MWCIPD 610312070653.20 .

C961 03 27 09 15 06.00 36 36.00 116 18.00 D 3.6 N10 8
 C CLCEP 610321091506.00 49.30IS
 C961 03 27 09 15 06.00 36 36.00 116 18.00 D 3.6 N10 8
 C TINIP 610321091510.10 116.1IS
 C961 03 27 09 15 06.00 36 36.00 116 18.00 D 3.6 N10 8
 C WDYIP 610321091520.90 .
 C961 08 12 16 34 19.42 36 13.41 118 22.34 A 3.1 J 9 -2.0 1C 0.11 0.8 0.6 2.3
 C PLMIP 610812160511.10 63.20IS
 C961 09 16 17 02 05.00 32 21.00 115 45.00 D 3.9 P01 8
 C CLC 6109011704 10.10IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C PASIP 610916200946.20 71.00IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C BARIPU 610916200920.20 27.10IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C CLCEP 610916201006.60 45.30ES
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C ISAEP 610916201007.40 52.70IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C HAYIP 610916200926.30 38.10IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C MWCIP 610916200945.80 71.60IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C PVREP 610916200947.50 73.00IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C RVRIP 610916200935.40 52.80IS
 C961 09 16 19 49 39.37 32 53.67 116 7.13 C 4.4 N 2 18.5 1C 0.93 6.6 8.7 7.0
 C WDYEP 610916201007.60 52.40IS
 C961 10 04 22 14 04.92 35 06.98 118 34.00 B 3.0 H07 05.5 1A .13 1.1 0.8 02.1
 C MWCIP 611004224423.10 36.70IS
 C961 10 31 12 38 04.28 35 14.06 118 35.41 B 3.1 H07 -1.0 1A .18 1.3 1.0 03.1
 CI 6112
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C PASIP 611111041539.70 91.40IS
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C BARIP 611111041457.20 .
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C FTCEP 611111041558.90 104.8IS
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C GSC P 6111110417 . 07.70IS
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C HAYIP 611111041504.40 64.10IS
 C961 11 12 04 20 00.00 36 58.00 121 40.00 D 3.7 8
 C MWCEP 611111041537.70 95.40IS

C*END-----

S00G 1961 1 1 1427 CPL 26.00 35.7167N 118.0000W 3.1R 4
 1 PASIP 5720 PASIS 7720 BAREP 8040 BARES 12520 CLCIPU 3390 FTCIP 4780
 2 FTCIS 6150 HAIIP 3390 HAIIS 3970 ISAIP 3310 KRCIP 5280 KRCIS 7240
 3 MWCIPU 5450 MWCIS 7390 RVREP 5750 RVRIS 8360 TINIPU 5090 TINIS 6870
 4 WDYIP 3800
 S00G 1961 1 2 633A CPL 24.00 34.2500N 117.1667W 3.0R 3
 1 PASIP 3320 PASIS 4620 BARIPU 4930 BARIS 7350 ISAIP 5330 ISAIS 8030
 2 MWCIP 3150 PLMIPU 3830 PLMIS 5400 RVRIP 2550 RVRIS 2940 TINEP 7790
 3 TINIS 12030 WDYIP 6160 WDYIS 8410

S00G 1961 1 3 1331 CPL 3

***** 1496 data cards not shown here *****

C#FINIS DSN=SL000016

Table SL000017

C#DSN=SL000017;SIZE=001663;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=002865;
 C*DATE: 19820518; 0; CPLCT62;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19620101; 19621231; 29.100N; 41.800N; 124.267W; 112.000W; ; 500H;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1962 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR:
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000072 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, HYDEP		Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3,	GAP or	Maximum station gap in degrees (I3)
C*		or	MB	for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3,	DMIN	Minimum station distance in km (I3)
C*		or	or MS	for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or	rms residual in seconds (F3.1) for
C*			M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
 C* THE FIRST DIGIT OF THE SUMMARY LINES WAS CHANGED TO A 'C'.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C962 1 28 11 49 12.00 30 48.00 114 36.00 4.5 R 0 8
 C RVRIP 620128085027.30 83.2015

```

C962 08 01 02 56 42.00 37 42.00 118 18.00 D 3.2 J12      8
C ISAIP 620801022718.50 44.40IS
C962 08 14 23 57 30.00 31 36.00 114 48.00 D 4.0 R00      8
C GSCEP 620814233843.00 104.0IS
C962 08 25 00 34 59.00 33 12.00 119 35.00 C 2.3 F03      8
C MWCIP 620825033527.50 48.40IS
C962 08 25 00 34 59.00 33 12.00 119 35.00 C 2.3 F03      8
C PVRIP 620825033523.60 37.50IS
C962 08 25 00 34 59.00 33 12.00 119 35.00 C 2.3 F03      8
C SNCIPU 620825033502.10 .
C962 11 04 12 05 20.00 33 02.00 116 14.00 C 3.3 N03      8
C CLCIP 6211041251 . 114.1IS
C962 11 6 11 57 17.00 37 30.00 119 00.00 4.1 G12      7
C MWCIP 621106114311.50 58.60IS
C962 12 31 3 15 4.72 33 13.48 116 12.65 B 3.0 N 3 -2.0 1B 0.25 2.0 1.9 6.5
C PASIP 621224131719.00 .
C962 12 31 3 15 4.72 33 13.48 116 12.65 B 3.0 N 3 -2.0 1B 0.25 2.0 1.9 6.5
C BARIP 621224131632.80 .
C962 12 31 3 15 4.72 33 13.48 116 12.65 B 3.0 N 3 -2.0 1B 0.25 2.0 1.9 6.5
C PLMEP 621224131653.20 114.5IS
C962 12 31 3 15 4.72 33 13.48 116 12.65 B 3.0 N 3 -2.0 1B 0.25 2.0 1.9 6.5
C WDYEP 621224131736.00 .
C*END-----
S00H 1962 1 1 1521 CPL 38.82 35.3710N 118.5978W 12.4 2.9R 4
1 PASIPU 6170 PASIS 7770 BARIP 8610 CLCIP 5580 FTCEs 5620 ISAIP 4480
2 KRCIP 5770 MWCIP 6050 MWCIS 7810 PLMIP 7800 PLMES 11550 RVRIP 6670
3 RVRIS 9070 SBCIP 6370 SBCIS 8220 TINIP 7100 TINIS 9450 WDYIP 4600
4 WDYIS 5180
S00H 1962 1 5 915 CPL 2
1 PASIP 7600 PASIS 13100 BARIP 3400 BARES 7700 ISAES 9600 MWCIP 7200
2 MWCIS 12900 PLMIP 10500 RVREP 7000 WDYEP 8300
S00H 1962 1 7 23 1 CPL 31.49 33.2538N 118.6425W 08.2 2.8R 4
1 PASIP 4920 PASIS 6250 BARIP 5830 BARES 8370 CLCIP 7920 CLCES 11610
***** 1464 data cards not shown here *****
C#FINIS DSN=SL000017

```

Table SL000018

C#DSN=SL000018;SIZE=001809;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=004528;
 C*DATE: 19820518; 0; CPLCT63;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19630101; 19631231; 30.000N; 39.000N; 122.800W; 111.000W; ; S00I;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1963 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR:
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000073 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
 C* THE FIRST DIGIT OF THE SUMMARY LINES WAS CHANGED TO A 'C'.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C963 02 21	11 44 42.00	31 42.00	115 54.00	D 3.8 P00	8
C PASIP	630222015316.70	39.40IS			
C963 02 21	11 44 42.00	31 42.00	115 54.00	D 3.8 P00	8

Table SL000019

C#DSN=SL000019;SIZE=001428;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=006337;
 C*DATE: 19820518; 0; CPLCT64;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19640101; 19641231; 30.700N; 38.700N; 121.692W; 113.200W; ; S00J;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1964 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR:
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000074 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be
C*				specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
 C* THE FIRST DIGIT OF THE SUMMARY LINES WAS CHANGED TO A 'C'.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C964 05 15 19 40 35.00 31 30.00 113 42.00 5.0 7
 C ISAIP 640515192717.80 81.30IS
 C964 11 29 14 25 26.45 32 59.41 115 40.94 B 4.2 13.8 1A

C BARIP 641129144542.80 55.00IS

C*END-----

S00J 1964 1 2 1231 CPL 29.18 32.8845N 115.5847W -2.0 2.9R 3
1 PASIP 1560 PASIS 4940 BARIP 4690 BARIS 5900 ECCIS 3290 GSCEP 7800
2 GSCIS 12000 HAYIP 4420 MWCIP 7460 MWCIS 10920 PLMIP 4940 PLMIS 6670
3 RVRIP 12290 RVRIS 14830

S00J 1964 1 2 1521 CPL 1

1 CLCIP 4370 CLCIS 5480 GSCIP 3100

S00J 1964 1 2 480 CPL 6

1 PASIP 900 PASIS 6600 BARIP 1700 BARIS 6600 CLCEP 3000 CLCIS 10600

2 GSCEP 1900 MWCIS 700 PLMEP 4000 PLMIS 8600 RVREP 5100 RVRIS 10900

3 WDYIP 3900 WDYIS 11400 1964 4096 PASIPD 460 PASIS 2230 BARIPD 3000

***** 1250 data cards not shown here *****

C#FINIS DSN=SL000019

Table SL000020

C*DSN=SL000020;SIZE=001630;DATE=032184;ARCH=JN;TAPE=SM9302;FILE=004;STRT=007765;
C*DATE: 19820518; 0; CPLCT65;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSON: K. PIPER; J. T. NEWBERRY
C*ALPHA: 19650101; 19651231; 30.100N; 38.900N; 122.500W; 113.700W; ; 500K;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR THE YEAR 1965 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR:
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000075 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C* EVENT SUMMARY CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EYYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes),

C*				then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of local magnitude; R=Richter scale using Wood-Anderson seismograms was assumed for this data set, due to the institution involved and time period considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for a local quake, or any magnitude (F3.1) for a teleseismic event (to be specified by MCODE in column 80)

C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTES:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
 C* THE FIRST DIGIT OF THE SUMMARY LINES WAS CHANGED TO A 'C'.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C PASIP 650412000004.40 37.30IS

C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C CLCEP 650412000025.00 71.10IS
 C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C GSCEP 650412000007.80 47.50IS
 C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C ISAIP 650412000032.40 .
 C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C MWCIP 650412000004.50 35.70IS
 C965 4 11 23 59 24.55 32 51.75 115 53.26 C 3.4 -2.0 1A
 C WDYIP 650412000031.40 80.90IS

C*END-----

S00K 1965 1 1 639 CPL 53.90 34.1377N 117.4828W 8.5 1.8R 2
 1 PASIP 6470 PASIS 7200 BAREP 8180 BARIS 10230 GSCIP 7720 GSCIS 9410
 2 RVRIP 5730 RVRIS 5980
 S00K 1965 1 1 741 CPL 1
 1 PASIP 2360 PASIS 3150 GSCEP 3670 GSCIS 5360 RVRIP 1640 RVRIS 1920
 S00K 1965 1 1 741 CPL 32.88 34.1228N 117.5227W 7.5 3.9R 4
 1 PASIP 4310 PASIS 5130 BARIP 6080 BARIS 8170 CLCIPD 6170 FTCIP 5670
 2 GSCIP 5640 GSCIS 7310 HAIIP 6740 HAIIS 9620 ISAIPD 6240 ISAIS 8280
 3 KRCIP 7010 KRCIS 10060 RVRIP 3610 RVRIS 3910 SBCIPU 6630 SBCIS 9110
 4 SNCIP 6650 SNCIS 9060 TINIP 8540 TINIS 12610 WDYIPD 6480 WDYES 8950

***** 1443 data cards not shown here *****

C#FINIS DSN=SL000020

Table SL000021

C#DSN=SL000021;SIZE=001686;DATE=032284;ARCH=JN;TAPE=SM9302;FILE=005;STRT=000001;
C*DATE: 19790508; 0; CPLCT66;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
C*ALPHA: 19660101; 19661231; 30.500N; 38.000N; 121.750W; 113.338W; ; S00L;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR THE YEAR 1966 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000076 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000060
C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C*
C*
C* EVENT SUMMARY CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9,

C*				A, B, ..., Z, up to 35 cards. If any
C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMLNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,15))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1966 8 07 17 03 24.08 35 54.37 120 28.26 C 3.5 2.8 1A

RVREP 660807173713.90 .
 1966 10 01 01 07 11.56 33 57.57 118 48.17 C 2.3 -2.0 1A
 TINIP 661002051324.30 70.30IS
 1966 10 01 01 07 11.56 33 57.57 118 48.17 C 2.3 -2.0 1A
 WDIYIPD 661002051305.00 24.70IS

C*ENDNOTE

C*END-----

S00L 1966 1 7 1159 CPL 58.33 33.9295N 117.9423W 10.6 2.3R 2
 1 PASIPD 6370 PASIS 6820 BARIP 8650 BARIS 10720 GSCEP 8720 GSCIS 10890
 2 RVRIP 6720 RVRIS 7370 WDIYIP 9310 WDIYIS 11400
 S00L 1966 1 7 1910 CPL 23.04 33.2788N 116.2487W -1.7 4.0R 4
 1 PASIP 5520 PASIS 7970 BARIPD 3560 BARIS 4320 CLCEP 6740 CLCIS 11080
 2 CWCIS 13330 ECCEP 3450 ECCIS 5010 FTCIP 7100 FTCIS 10750 GSCIP 5820
 3 HAYIPU 3680 HAYIS 4430 PLMIP 3400 RVRIP 4540 RVRIS 6060 SBCIP 7900
 4 SBCIS 12060 TINIP 9500 TINIS 15200 WDIYIP 7450 WDIYIS 11850
 S00L 1966 1 8 529 CPL 52.00 30.5000N 113.9000W . 3.3R 1
 ***** 1504 data cards not shown here *****
 C#FINIS DSN=SL000021

Table SL000022

C*DSN=SL000022;SIZE=002056;DATE=032284;ARCH=JN;TAPE=SM9302;FILE=005;STRT=001687;
 C*DATE: 19790508; 0; CPLCT67;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSON: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
 C*ALPHA: 19670101; 19671231; 31.426N; 37.808N; 121.788W; 114.693W; ; 500M;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1967 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000061 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000077
 C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source C* to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the C* quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; C* If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one C* quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes C* are used for a data record, then DATCOD=k C* where k is the card sequence number with- C* in the data record, e.g., 1, 2, ..., 9,

C*			A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key to the kind of data that follows, IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP or F5.2)	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of local magnitude; R=Richter scale using Wood-Anderson seismograms was assumed for this data set, due to the institution involved and time period considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase list cards to be followed.
C*	65-67	(I3) NUMPHA	total number of phase readings for locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or F3.1) MB	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DM:N or F3.1) or MS	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or M	rms residual in seconds (F3.1) for a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1967 2 18 23 07 47.89 34 44.88 116 23.08 B 3.0 5.3 1A

HAYIP 670218233809.70 26.70IS

C*ENDNOTE

C*END-----

S00M 1967 1 2 911 CPL 5
1 PASEP 7160 PASIS 14430 BARIP 7730 CLCIP 5030 CLCIS 9780 CWCEP 4200
2 CWCIS 10540 GLAIP 6580 GLAIS 13530 GSCIP 4750 GSCIS 9730 HAYIP 5940
3 HAYIS 12240 ISAIP 7190 ISAIS 12510 MWCIP 7000 MWCIS 14020 PLMIP 6990
4 PLMIS 14330 RVRIP 6620 RVRIS 13170 TINEP 5420 TINIS 10550 WDYIP 6440
5 WDYIS 13240

S00M 1967 1 2 1158 CPL 24.22 33.5785N 118.2617W -1.1 2.7R 3
1 PASIPD 3500 PASIS 4250 BARIP 5090 BARIS 7440 CLCIP 6630 CLCIS 9640
2 FTCIP 10700 FTCIS 12470 MWCIP 3660 MWCIS 4520 PLMIP 4530 PLMIS 6270

***** 1878 data cards not shown here *****

C#FINIS DSN=SL000022

Table SL000023

C#DSN=SL000023;SIZE=003096;DATE=032284;ARCH=JN;TAPE=SM9302;FILE=005;STRT=003743;
C*DATE: 19790508; 0; CPLCT68;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
C*ALPHA: 19680101; 19681231; 31.430N; 38.148N; 121.745W; 114.774W; ; S00N;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR THE YEAR 1968 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000062 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000078
C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C*
C* EVENT SUMMARY CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source C* to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the C* quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; C* If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one C* quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes C* are used for a data record, then DATCOD=k C* where k is the card sequence number with- C* in the data record, e.g., 1, 2, ..., 9,

C*			A, B, ..., Z, up to 35 cards. If any
C*			data record exceeds 35 cards (2800 bytes),
C*			then DATCOD=* and the last data card must be
C*			blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key
C*			to the kind of data that follows,
C*			IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds
C*			portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit;
C*			For some old quakes, the ORTIME may
C*			differ from the identification date
C*			and time. Use Y for year, N for
C*			month, D for day, H for hour, M
C*			for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S
C*			for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W
C*			for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP	Focal depth in km; decimal places
C*		or F5.2)	depends on teleseismic event (F5.1)
C*			or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth
C*			is determined; A=assigned, D=re-
C*			strained by pP, H=held at fixed
C*			depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of
C*			local magnitude; R=Richter scale
C*			using Wood-Anderson seismograms
C*			was assumed for this data set, due
C*			to the institution involved and time period
C*			considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase
C*			list cards to be followed.
C*	65-67	(I3) NUPPHA	total number of phase readings for
C*			locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or	Maximum station gap in degrees (I3)
C*		or MB	for a local quake, or body-wave mag-
C*		F3.1)	nitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DMIN	Minimum station distance in km (I3)
C*		or MS	for a local quake, or surface-wave
C*		F3.1)	magnitude (F3.1) for a teleseismic
C*			event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or	rms residual in seconds (F3.1) for
C*		M	a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1968 2 01 00 15 20.95 31 48.76 115 58.48 C 3.3 10.0 1R

SCIIP	680201150059.30	91.00IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
PASIP	680305232543.50	59.00IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
CLCIP	680305232541.90	56.50IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
CWCIP	680305232546.70	64.50IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
GSCIP	680305232547.80	66.70IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
ISAIP	680305232532.50	39.90IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
MWCIP	680305232541.50	57.00IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
RVRIP	680305232550.50	69.20IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
SYPEP	680305232551.50	73.70IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
SWMIPU	680305232531.90	39.10IS	
1968 3 04 07 40 51.16	32 34.56 115 16.74 C 2.6	10.0 1R	
WDYIPU	680305232535.00	44.50IS	
1968 3 20 22 37 45.08	32 48.99 117 03.34 B 2.9	-1.4 1A	
BARIP	680321223751.60	56.20IS	
1968 3 20 22 37 45.08	32 48.99 117 03.34 B 2.9	-1.4 1A	
GSCIP	680321223830.00	63.00IS	
1968 3 20 22 37 45.08	32 48.99 117 03.34 B 2.9	-1.4 1A	
MWCIP	680321223814.20	36.30IS	
1968 3 20 22 37 45.08	32 48.99 117 03.34 B 2.9	-1.4 1A	
PLMIPU	680321223755.30	63.00IS	
1968 3 20 22 37 45.08	32 48.99 117 03.34 B 2.9	-1.4 1A	
RVR P	6803212238 .	22.10IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
PASEP	680529114223.00	102.00IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
CLCIPD	680529114158.30	110.30IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
CWCIP	680529114149.60	88.20IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
GLAEP	680529114244.90	153.40IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
GSCIP	680529114205.60	53.70IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
ISAIP	680529114203.00	51.50IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
PLMEP	680529114234.50	130.50IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
RVRIP	680529114225.00	107.10IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
TINIPD	680529114141.00	70.70IS	
1968 5 29 05 12 55.15	35 18.88 118 30.47 B 3.6	6.5 1A	
WDYIP	680529114201.30	52.30IS	

C*ENDNOTE

C*END-----

S00N 1968	1 1 750 CPL 50.71 32.9402N 115.8437W	9.6 3.1R 4
1 PASEP	8850 PASIS 11910 BARIP 6450 BARIS 7410 CLCIP 10920 CLCIS 15150	
2 GLAIP	6670 GLAIS 7800 GSCEP 9260 GSCIS 13030 HAYIPD 6510 HAYIS 7530	

3	ISAEP	11350	IS AIS	15750	MWCIP	9080	MWCIS	11730	PLMIP	6730	PLMIS	7940
4	RVRIP	8040	RVRIS	9840	WDYEP	11440	WDYES	16260				
SOON 1968 1 1 928 CPL										2		
1	CLCIP	4410	CLCES	7200	CWCIP	3430	CWCIS	5900	GSCIP	5410	GSCIS	10170
2	ISAIP	4820	IS AIS	7900	TINIP	2360	TINIS	3490				
SOON 1968 1 1 1134 CPL										2		
***** 2868 data cards not shown here *****												
C#FINIS DSN=SL000023												

Table SL000024

C#DSN=SL000024;SIZE=003750;DATE=032284;ARCH=JN;TAPE=SM9302;FILE=005;STRT=006839;
 C#DATE: 19790508; 0; CPLCT69;
 C#CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C#PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
 C#ALPHA: 19690101; 19691231; 30.800N; 38.468N; 122.700W; 113.900W; ; S000;
 C#KEYWD: SOUTHERN CALIFORNIA;
 C#TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C# FOR THE YEAR 1969 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C# CONVERTED TO USGS STANDARDIZED FORMAT.
 C#AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C#INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C#ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000063 FROM
 C# THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000079
 C# AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
 C# PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C#REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C# (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C# 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C# CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C# HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C# SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C# TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C# INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C# WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C# EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C# BULL. SEISM. SOC. AM., 68,523-525.
 C#
 C#FORMAT: Two types of records are included in this file.
 C# 1. Event Summary Card
 C# 2. Condensed Phase Data Card
 C#
 C# EVENT SUMMARY CARD
 C#

C#	COLUMNS	FORMAT	ITEM	EXPLANATION
C#	01-04	(A4)	REFNUM	Reference number to the data source
C#				to be supplied by the archivist.
C#	05	(A1)	blank	Space for overflow if year of the
C#				quake is B.C.
C#	06-09	(I4)	EVYEAR	4 digits for the year of the quake;
C#				If year is B.C., use "-" in column 5.
C#	10	(A1)	blank	
C#	11-12	(I2)	EVMON	2 digits for the month of the quake.
C#	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C#	15	(A1)	blank	
C#	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C#	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C#	20	(A1)	EVINDX	Event index if there are more than one
C#				quake within the same minute.
C#	21	(A1)	DA`COD	Normally a blank. If more than 80 bytes
C#				are used for a data record, then DATCOD=k
C#				where k is the card sequence number with-
C#				in the data record, e.g., 1, 2, ..., 9,

C*				A, B, ..., Z, up to 35 cards. If any
C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1969 3 21 05 14 23.50 31 06.00 114 30.00 C 4.9 7

ISAIP	690321054144.70	.								
1969 3 21 05 14 23.50	31 06.00 114 30.00 C 4.9								7	
PLMIP	690321054054.00	.								
1969 3 21 12 24 00.10	31 12.00 114 16.00 C 5.3								7	
HAYIP	690321125441.20	.								
1969 3 21 12 24 00.10	31 12.00 114 16.00 C 5.3								7	
FTCIP	690321125534.00	.								
1969 4 13 07 45 41.54	36 08.58 118 00.25 B 3.0								-2.0 1A	
FTCIP	690413070608.60	28.00IS								
1969 5 20 12 27 58.11	32 36.13 115 15.04 B 2.5								10.0 1R	
BARIP	690520112819.80	35.60IS								
1969 5 20 12 27 58.11	32 36.13 115 15.04 B 2.5								10.0 1R	
GLAIPD	690520112809.40	16.10IS								
1969 5 20 12 27 58.11	32 36.13 115 15.04 B 2.5								10.0 1R	
RHMIP	690520112806.60	20.70IS								
1969 9 23 21 57 57.54	36 18.48 118 26.32 C 2.4								10.0 1R	
TINEP	690923212811.00	22.50IS								
1969 11 13 15 15 02.18	37 09.78 116 05.31 C 3.5								10.0 1R	
CLCIP	691113150024.10	48.20IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
PASEP	691225125047.50	.								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
BARIP	691225125027.10	47.80IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
CLCIPD	691225125042.60	65.20IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
FTCEP	691225125053.00	.								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
GLAIPU	691225125004.50	.								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
GSCIP	691225125031.90	51.60IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
ISAIP	691225125051.10	76.70IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
MWCIP	691225125042.70	69.20IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
PLMIP	691225125029.00	49.00IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
RVRIPU	691225125034.00	59.50IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
SWMIP	691225125048.40	61.10IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
TIN P	6912251251	24.60IS								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
WDYIP	691225125055.80	.								
1969 12 26 12 49 10.16	36 16.85 118 22.05 A 2.7								10.0 1R	
RHMIP	691225125012.50	.								

C*ENDNOTE

C*END-----

S000 1969 1 1 825 CPL 15.24 35.4707N 120.0723W 3.4 2.2R 2									
1 FTCIP 3560 FTCIS 5140 ISAIP 3920 ISAIS 5740 SBCIP 3530 SBCIS 4940									
2 SYEP 3250 SYPIS 4500 SWMIP 4100 SWMIS 6310 WDYIPD 3360 WDYIS 4800									
S000 1969 1 6 634 CPL								5	
1 PASIP 6920 PASIS 12270 BARIP 8600 BARIS 9660 CLCIPD 4450 MWCIP 6770									
2 MWCIS 11840 FTCIP 6490 FTCIS 11210 GLAIP 8320 GLAIS 15430 GSCIPD 4860									
3 HAYIP 7300 HAYIS 12830 ISAIPD 5270 PLMIPD 7680 PLMIS 14070 RVRIP 6830									

4 RVRIS 11910 SBCIP 7630 SBCIS 13750 SYPIP 7830 TINIPD 4090 TINIS 6010
5 SWMIP 6470 SWMIS 11220 WDYIPD 5530 WDYIS 8490
***** 3526 data cards not shown here *****
C#FINIS DSN=SL000024

Table SL000025

C#DSN=SL000025;SIZE=003007;DATE=032284;ARCH=JN;TAPE=SM9302;FILE=006;STRT=000001;
 C*DATE: 19790508; 0; CPLCT70;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
 C*ALPHA: 19700101; 19701231; 30.783N; 39.044N; 122.192W; 114.901W; ; S00P;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1970 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000064 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000080
 C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9,

C*			A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key to the kind of data that follows, IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP or F5.2)	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of local magnitude; R=Richter scale using Wood-Anderson seismograms was assumed for this data set, due to the institution involved and time period considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase list cards to be followed.
C*	65-67	(I3) NUPHA	total number of phase readings for locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or MB or F3.1)	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DMIN or MS or F3.1)	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or M	rms residual in seconds (F3.1) for a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1970 2 14 05 19 44.74 34 03.84 116 11.03 A 2.4 10.0 1R

Table SL000026

C#DSN=SL000026;SIZE=000192;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=007;STRT=000001;
 C*DATE: 19780101; 0; ISC0409S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19040101; 19091231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00Q;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1904 TO 1909.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000001 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD
 C*

C* COLUMNS	FORMAT	ITEM	EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C* 22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C* 25	(A1)	blank	A blank space for easy reading.
C* 26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C* 31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C* 32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.

C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2)
C*	56	(A1)	HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of local magnitude; R=Richter scale using Wood-Anderson seismograms was assumed for this data set, due to the institution involved and time period considered.
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum intensity. PDE notation is used: I to IX, X for X, E for XI, and T for XII.
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS OR M	RMS residual in seconds (F3.1) for a local quake, or any magnitude (F3.1) for a teleseismic event (to be specified by MCODE in column 80).
C*	80	(A1)	HYQUAL or MCODE	HYP071 quality code for a local quake, or code for specifying M in columns 77-79, e.g., U=unspecified, W=moment magnitude, etc.

C*END-----

S00Q	1904	120	1452	SUM	6.00	7.0000N	79.0000W	7.8U
S00Q	1904	4	4	1026	SUM	0.00	41.7500N	23.2500E
S00Q	1904	6	7	817	SUM	54.00	40.0000N	134.0000E 350.0
S00Q	1904	625	1445	SUM	36.00	52.0000N	159.0000E	8.0U
S00Q	1904	625	21	0	SUM	30.00	52.0000N	159.0000E
S00Q	1904	627	0	9	SUM	0.00	52.0000N	159.0000E
S00Q	1904	824	2059	SUM	54.00	30.0000N	130.0000E	7.8U

S00Q	1904	827	2156	SUM	6.00	64.0000N	151.0000W	7.8U
S00Q	1904	10	3 3 5	SUM	0.00	12.0000N	58.0000E	7.0U
S00Q	1904	1220	544	SUM	18.00	8.5000N	83.0000W	7.8U
***** 79 data cards not shown here *****								
C#FINIS DSN=SL000026								

Table SL000027

C#DSN=SL000027;SIZE=000400;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=007;STRT=000193;
 C*DATE: 19780101; 0; ISC1019S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19100101; 19191231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00R;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1910 TO 1919.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000002 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00R 1910 1 1 11 2 SUM 0.00 16.5000N 84.0000W 60.0 7.1U
 S00R 1910 1 8 1449 SUM 30.00 35.0000N 122.0000E 6.8U
 S00R 1910 122 848 SUM 30.00 67.5000N 17.0000W 7.1U
 S00R 1910 123 1849 SUM 42.00 12.0000N 60.5000W 100.0 7.2U
 S00R 1910 212 1810 SUM 6.00 32.5000N 138.0000E 350.0 7.4U
 S00R 1910 218 5 9 SUM 18.00 36.0000N 24.5000E 150.0 7.0U
 S00R 1910 330 1655 SUM 48.00 21.0000S 170.0000E 80.0 7.3U
 S00R 1910 412 022 SUM 13.00 25.5000N 122.5000E 200.0 7.8U
 S00R 1910 420 2222 SUM 0.00 20.0000S 177.0000W 330.0 7.0U
 S00R 1910 5 1 1830 SUM 36.00 20.0000S 169.0000E 80.0 7.1U
 ***** 287 data cards not shown here *****
 C#FINIS DSN=SL000027

Table SL000028

C#DSN=SL000028;SIZE=000944;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=007;STRT=000593;
 C*DATE: 19780101; 0; ISC2029S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19200101; 19291231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00S;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1920 TO 1929.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000003 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

See previous format from dataset SL000026 for details

C*END-----
 S00S 1920 112 1339 SUM 58.00 23.5000N 144.0000E 6.0U
 S00S 1920 130 1826 SUM 45.00 3.0000N 77.5000W 6.0U
 S00S 1920 2 2 1122 SUM 18.00 4.0000S 152.5000E 7.7U
 S00S 1920 2 8 524 SUM 30.00 35.0000S 111.0000E 6.3U
 S00S 1920 210 22 7 SUM 15.00 18.0000N 67.5000W 6.5U
 S00S 1920 222 1735 SUM 50.00 47.5000N 146.0000E 340.0 7.0U
 S00S 1920 225 1756 SUM 23.00 35.0000N 9.5000E 5.6U
 S00S 1920 320 1831 SUM 25.00 35.0000S 110.0000W 7.0U
 S00S 1920 329 5 7 SUM 53.00 51.0000N 129.0000W 6.4U
 S00S 1920 419 21 6 SUM 36.00 19.0000N 97.0000W 110.0 6.8U
 ***** 831 data cards not shown here *****
 C#FINIS DSN=SL000028

Table SL000029

C#DSN=SL000029;SIZE=005095;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=007;STRT=001537;
 C*DATE: 19780101; 0; ISC3039S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19300101; 19391231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00T;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1930 TO 1939.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000004 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00T 1930 1 5 119 SUM 48.00 49.0000N 154.0000E 140.0 6.9U
 S00T 1930 1 6 2350 SUM 0.00 55.0000S 131.0000W 6.0U
 S00T 1930 111 2121 SUM 0.00 30.0000N 139.0000E 500.0 5.0U
 S00T 1930 114 22 1 SUM 19.00 16.0000S 171.0000W 30.0 6.3U
 S00T 1930 116 024 SUM 34.00 34.2000N 116.9000W 5.3U
 S00T 1930 117 1110 SUM 19.00 33.0000S 59.0000E 6.0U
 S00T 1930 117 1654 SUM 30.00 8.0000N 105.0000W 5.6U
 S00T 1930 126 1220 SUM 30.00 18.5000N 146.5000E 190.0 6.3U
 S00T 1930 214 1838 SUM 20.00 35.7500N 24.7500E 130.0 6.8U
 S00T 1930 214 2041 SUM 10.00 21.0000S 175.0000W 50.0 6.5U
 ***** 4982 data cards not shown here *****
 C#FINIS DSN=SL000029

Table SL000030

C#DSN=SL000030;SIZE=008194;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=008;STRT=000001;
 C*DATE: 19780101; 0; ISC4049S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19400101; 19491231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00U;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1940 TO 1949.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000005 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00U 1940 1 1 1215A SUM 9.00 17.8000S 178.8000W 477.0
 S00U 1940 1 1 1215B SUM 12.00 17.2000S 178.7000W 550.0
 S00U 1940 1 1 1215C SUM 13.00 18.0000S 178.5000W 570.0 6.3U
 S00U 1940 1 2 0 7 SUM 8.00 30.3000N 22.0000E
 S00U 1940 1 2 11 7A SUM 14.00 28.5000S 113.0000W 6.3U
 S00U 1940 1 2 11 7B SUM 18.00 28.6000S 113.8000W
 S00U 1940 1 2 11 7C SUM 18.00 28.5000S 113.5000W
 S00U 1940 1 3 14 9 SUM 56.00 36.5000N 141.6000E
 S00U 1940 1 4 110 SUM 18.00 34.0000S 162.0000W
 S00U 1940 1 4 8 7 SUM 12.00 38.3000N 116.3000W
 ***** 8081 data cards not shown here *****
 C#FINIS DSN=SL000030

Table SL000031

C#DSN=SL000031;SIZE=011410;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=009;STRT=000001;
 C*DATE: 19780101; 0; ISC50545;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19500101; 19541231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00V;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1950 TO 1954.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000006 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00V 1950 1 1 251 SUM 21.00 26.0000N 110.0000W
 S00V 1950 1 1 252A SUM 16.00 25.1000N 109.7000W
 S00V 1950 1 1 252B SUM 21.00 25.0000N 110.0000W
 S00V 1950 1 1 10 3 SUM 30.00 41.2000N 14.8000E 6
 S00V 1950 1 1 16 4 SUM 29.00 17.0000N 121.5000E
 S00V 1950 1 2 042A SUM 26.00 19.0000N 67.5000W
 S00V 1950 1 2 042B SUM 29.80 19.0300N 67.7200W 37.0 42 4.7U
 S00V 1950 1 2 042C SUM 30.00 19.0000N 67.5000W 60.0
 S00V 1950 1 2 042D SUM 34.00 19.1000N 67.1000W 64.0
 S00V 1950 1 2 115A SUM 28.00 7.1000N 34.6000W
 ***** 11297 data cards not shown here *****
 C#FINIS DSN=SL000031

Table SL000032

C#DSN=SL000032;SIZE=015348;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=010;STRT=000001;
 C*DATE: 19780101; 0; ISC5559S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19550101; 19591231; 90.0S; 90.0N; 180.0W; 180.0E; ; 500W;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEARS FROM 1955 TO 1959.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000007 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00W 1955 1 1 1034A SUM 41.00 28.5000N 44.0000W
 S00W 1955 1 1 1034B SUM 42.00 28.1000N 44.4000W
 S00W 1955 1 1 1049A SUM 32.00 28.5000N 44.0000W
 S00W 1955 1 1 1049B SUM 33.00 28.1000N 44.4000W
 S00W 1955 1 1 1049C SUM 35.00 28.7500N 44.2500W
 S00W 1955 1 1 1650 SUM 54.00 26.0000S 175.0000W
 S00W 1955 1 1 1651 SUM 6.00 27.0000S 177.0000W
 S00W 1955 1 1 18 3 SUM 8.00 51.0000N 178.5000W
 S00W 1955 1 1 1837 SUM 41.00 51.5000N 178.5000W 60.0
 S00W 1955 1 2 2 9 SUM 52.00 3.5000S 134.2500E
 ***** 15235 data cards not shown here *****
 C#FINIS DSN=SL000032

Table SL000033

C#DSN=SL000033;SIZE=005613;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=011;STRT=000001;
 C*DATE: 19780101; 0; ISC1960S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSON: D. M. TOTTINGHAM;
 C*ALPHA: 19600101; 19601231; 90.0S; 90.0N; 180.0W; 180.0E; ; 500X;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1960.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000008 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 500X 1960 1 1 234 SUM 48.00 15.9500N 100.1330W 5.1U
 500X 1960 1 1 411 SUM 40.00 49.0000N 153.5000E
 500X 1960 1 1 417 SUM 32.00 27.5000N 142.0000E
 500X 1960 1 1 557 SUM 26.00 18.5000N 147.0000E
 500X 1960 1 1 1058 SUM 5.00 7.0000N 76.5000W
 500X 1960 1 1 21 4 SUM 11.00 6.5000S 147.5000E
 500X 1960 1 1 2312A SUM 31.00 56.0900N 163.0200E
 500X 1960 1 1 2312B SUM 33.00 56.0000N 162.5000E
 500X 1960 1 1 2312C SUM 36.00 56.0000N 164.0000E 5.4U
 500X 1960 1 2 152 SUM 18.00 54.0000N 157.5000E
 ***** 5500 data cards not shown here *****
 C#FINIS DSN=SL000033

Table SL000034

C#DSN=SL000034;SIZE=003202;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=011;STRT=005614;
 C*DATE: 19780101; 0; ISC1961S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19610101; 19611231; 90.0S; 90.0N; 180.0W; 180.0E; ; S00Y;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1961.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000009 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00Y 1961 1 1 11 2 SUM 29.00 16.4000N 98.6500W
 S00Y 1961 1 1 1314 SUM 45.00 31.5000S 178.5000E
 S00Y 1961 1 1 1638A SUM 23.00 18.3100S 178.1300W 551.0
 S00Y 1961 1 1 1638B SUM 24.10 18.3700S 178.0400W 563.0 18
 S00Y 1961 1 1 1845 SUM 45.40 86.4400N 70.0600E 8
 S00Y 1961 1 1 1933 SUM 26.00 55.8000S 8.0000E
 S00Y 1961 1 1 2211 SUM 21.50 29.3200S 177.0400W 147.0 9
 S00Y 1961 1 2 1011A SUM 40.00 12.4000S 166.4000E 6.8U
 S00Y 1961 1 2 1011B SUM 55.00 12.5000S 166.5400E 106.0
 S00Y 1961 1 2 1246 SUM 34.00 16.0830N 97.5500W
 ***** 3089 data cards not shown here *****
 C#FINIS DSN=SL000034

Table SL000035

C#DSN=SL000035;SIZE=003384;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=012;STRT=000001;
 C*DATE: 19780101; 0; ISC1962S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19620101; 19621231; 90.0S; 90.0N; 180.0W; 180.0E; ; 500Z;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1962.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000010 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S00Z 1962 1 1 241A SUM 3.00 52.0500N 177.8300E
 S00Z 1962 1 1 241B SUM 4.00 52.0000N 178.5000E 6.0U
 S00Z 1962 1 1 241C SUM 6.00 52.0000N 178.5000E 6.0U
 S00Z 1962 1 1 241D SUM 10.00 52.0000N 177.0000E 4.8U
 S00Z 1962 1 1 517 SUM 37.20 38.2330N 141.9000E
 S00Z 1962 1 1 1215 SUM 47.00 27.2400S 175.1800W 18
 S00Z 1962 1 1 1324A SUM 30.00 6.9000N 73.9000W 176 0
 S00Z 1962 1 1 1324B SUM 42.70 6.7100N 73.3700W 170.0 11
 S00Z 1962 1 1 1531 SUM 13.00 22.5000S 171.0000E
 S00Z 1962 1 1 18 5 SUM 45.00 61.8000N 5.5000E
 ***** 3271 data cards not shown here *****
 C#FINIS DSN=SL000035

Table SL000036

C#DSN=SL000036;SIZE=003680;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=012;STRT=003385;
 C*DATE: 19780101; 0; ISC1963S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19630101; 19631231; 90.0S; 90.0N; 180.0W; 180.0E; ; S010;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1963.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000011 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

See previous format from dataset SL000026 for details

C*END-----
 S010 1963 1 1 1543 SUM 7.00 43.2000N 13.3000E
 S010 1963 1 1 1927 SUM 32.00 35.4000N 58.8000E 4.5U
 S010 1963 1 1 2339A SUM 5.00 57.0000N 160.0000W 5.8U
 S010 1963 1 1 2339B SUM 6.00 56.5700N 157.5600W 51.0
 S010 1963 1 1 2339C SUM 8.00 54.5000N 155.5000W 6.8U
 S010 1963 1 1 2339D SUM 10.00 55.0000N 155.0000W 6.5U
 S010 1963 1 2 053 SUM 44.50 17.6600N 82.1900W 17.0 18 4.0U
 S010 1963 1 2 1146 SUM 36.00 40.5000N 80.0000E 4.0U
 S010 1963 1 2 1455A SUM 54.00 4.0000S 136.0000E 5.3U
 S010 1963 1 2 1455B SUM 58.00 4.0000S 136.0000E 5.5U
 ***** 3567 data cards not shown here *****
 C#FINIS DSN=SL000036

Table SL000037

C#DSN=SL000037;SIZE=010181;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=013;STRT=000001;
 C*DATE: 19780101; 0; ISC19645;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19640101; 19641231; 90.0S; 90.0N; 180.0W; 180.0E; ; S011;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1964.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000012 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S011	1964	1	1	3	0	SUM	55.40	32.9700N	130.8400E		6	
S011	1964	1	1	422		SUM	13.90	43.7000N	126.3000W	33.0	6	3.7U
S011	1964	1	1	5	2	SUM	59.00	25.1000N	122.2000E	33.0	6	
S011	1964	1	1	514		SUM	25.50	37.3100N	142.9800E	27.0	48	4.4U
S011	1964	1	1	8	2	SUM	12.00	38.3000N	111.8000W		3	
S011	1964	1	1	854		SUM	42.60	46.4000N	154.1000E	33.0	6	4.6U
S011	1964	1	1	914		SUM	1.80	19.1000S	169.5500E	249.0	10	
S011	1964	1	1	943		SUM	59.10	18.1000N	105.8700W	33.0	19	4.3U
S011	1964	1	1	945		SUM	28.70	23.9000S	67.4000W	200.0	6	4.1U
S011	1964	1	1	958		SUM	37.80	41.4200S	176.7000E	33.0	8	

***** 10068 data cards not shown here *****
 C#FINIS DSN=SL000037

Table SL000038

C#DSN=SL000038;SIZE=010195;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=014;STRT=000001;
 C*DATE: 19780101; 0; ISC1965S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19650101; 19651231; 90.0S; 90.0N; 180.0W; 180.0E; ; 5012;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1965.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000013 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S012	1965	1	1	052	SUM	44.00	50.2300N	18.9600E		3	2.0U
S012	1965	1	1	124	SUM	35.00	38.6000S	175.8000E	12.0	8	
S012	1965	1	1	256	SUM	44.10	18.7000N	107.9000W	33.0	7	3.6U
S012	1965	1	1	344	SUM	17.40	5.4500S	154.2500E	142.0	15	
S012	1965	1	1	414	SUM	40.10	35.3600N	136.8800E		14	
S012	1965	1	1	453	SUM	1.00	38.9000S	175.9000E	12.0	8	
S012	1965	1	1	454	SUM	19.60	38.6000S	175.9000E	12.0	9	
S012	1965	1	1	639	SUM	53.90	34.1400N	117.4800W	9.0	0	1.8U
S012	1965	1	1	741	SUM	30.70	33.9700N	117.5200W	8.0	20	4.4U
S012	1965	1	1	8 4	SUM	15.70	33.9500N	117.6100W	6.0	33	4.5U

***** 10082 data cards not shown here *****
 C#FINIS DSN=SL000038

Table SL000039

C#DSN=SL000039;SIZE=011215;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=015;STRT=000001;
 C*DATE: 19780101; 0; ISC1966S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19660101; 19661231; 90.05; 90.0N; 180.0W; 180.0E; ; S013;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1966.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000014 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S013	1966	1	1	159	SUM	53.00	16.3000S	73.4000W	33.0	6	
S013	1966	1	1	615	SUM	7.00	35.8000S	180.0000W	33.0	10	
S013	1966	1	1	619	SUM	15.00	10.6200S	166.2600E	61.0	7	
S013	1966	1	1	636	SUM	27.90	16.6700N	97.6900W	95.0	16	3.9U
S013	1966	1	1	841	SUM	54.60	57.5100N	153.7000W	42.0	8	4.2U
S013	1966	1	1	90	SUM	0.90	16.8900S	72.3500W	23.0	7	
S013	1966	1	1	958	SUM	29.00	31.0000N	131.4000E	53.0	8	
S013	1966	1	1	1113	SUM	27.00	14.7700N	119.5000E	35.0	11	
S013	1966	1	1	1129	SUM	20.10	42.8500N	78.2800W	5.0	0	3.0U
S013	1966	1	1	128	SUM	17.00	15.7000N	98.7500W		3	

***** 11102 data cards not shown here *****
 C#FINIS DSN=SL000039

Table SL000040

C#DSN=SL000040;SIZE=012456;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=016;STRT=000001;
 C*DATE: 19780101; 0; ISC1967S;
 C*CLAS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19670101; 19671231; 90.0S; 90.0N; 180.0W; 180.0E; ; S014;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1967.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000015 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S014	1967	1	1	0	4	SUM	17.00	13.2000S	165.8000E	119.0	9	
S014	1967	1	1	0	13	SUM	11.00	11.4200S	165.7100E		8	
S014	1967	1	1	0	21	SUM	8.00	12.0200S	166.0800E	34.0	133	5.1U
S014	1967	1	1	0	45	SUM	16.00	12.2000S	166.0000E	22.0	9	
S014	1967	1	1	1	5	SUM	45.00	0.0200S	125.9700E	18.0	36	4.8U
S014	1967	1	1	2	19	SUM	48.80	18.9000S	173.4000W	33.0	13	4.3U
S014	1967	1	1	2	59	SUM	39.60	10.9500N	93.1700E	108.0	59	4.6U
S014	1967	1	1	3	13A	SUM	18.00	27.0000S	66.0000W		7	4.1U
S014	1967	1	1	3	13B	SUM	19.70	11.9900S	166.1300E	43.0	40	4.8U
S014	1967	1	1	3	35	SUM	44.40	7.5000N	94.5000E	34.0	19	4.4U

***** 12343 data cards not shown here *****
 C#FINIS DSN=SL000040

Table SL000041

C#DSN=SL000041;SIZE=014313;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=017;STRT=000001;
 C*DATE: 19780101; 0; ISC1968S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19680101; 19681231; 90.0S; 90.0N; 180.0W; 180.0E; ; S015;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1968.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000016 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY LEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S015 1968	1 1	1 2	SUM	58.00	9.1000S	80.4000W	33.0	10	4.1U
S015 1968	1 1	121	SUM	26.00	7.0000N	74.0000W		1	4.7U
S015 1968	1 1	212	SUM	13.00	22.5000S	171.2500E		4	3.7U
S015 1968	1 1	239	SUM	10.00	29.0000S	63.0000W		1	4.6U
S015 1968	1 1	241	SUM	25.00	2.3600N	79.6900W	35.0	39	4.4U
S015 1968	1 1	4 3	SUM	45.00	2.9200N	101.0200W	157.0	38	4.3U
S015 1968	1 1	412	SUM	48.40	62.4300N	149.5700W	33.0	7	
S015 1968	1 1	610	SUM	53.20	62.2100N	149.6000W	44.0	8	
S015 1968	1 1	611	SUM	2.50	46.4000N	150.5000E	189.0	11	3.8U
S015 1968	1 1	656	SUM	25.00	22.4000S	173.9000W	33.0	11	4.5U

***** 14200 data cards not shown here *****
 C#FINIS DSN=SL000041

Table SL000042

C#DSN=SL000042;SIZE=013294;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=018;STRT=000001;
 C*DATE: 19780101; 0; ISC1969S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19690101; 19691231; 90.0S; 90.0N; 180.0W; 180.0E; ; S016;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1969.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000017 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S016	1969	1	1	1	2	SUP.	42.00	36.7000N	29.3000E		4	
S016	1969	1	1	225		SUM	9.00	65.6400N	149.9800W	10.0	6	
S016	1969	1	1	453		SUM	38.00	52.0700N	170.0900W	38.0	66	4.7U
S016	1969	1	1	555		SUM	36.40	21.3100S	67.1700W	203.0	8	3.8U
S016	1969	1	1	634		SUM	1.00	19.8000S	168.6000E		3	3.4U
S016	1969	1	1	653		SUM	30.00	60.3300S	150.4000E	38.0	42	
S016	1969	1	1	713		SUM	23.00	20.3000N	99.0000W	30.0	7	
S016	1969	1	1	728		SUM	29.70	36.5900N	138.1300E		23	
S016	1969	1	1	734		SUM	24.30	36.4500N	138.1300E		16	4.0U
S016	1969	1	1	8	4	SUM	34.10	6.0900S	77.2000W	100.0	14	4.3U

***** 13181 data cards not shown here *****
 C#FINIS DSN=SL000042

Table SL000043

C#DSN=SL000043;SIZE=011881;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=019;STRT=000001;
 C*DATE: 19780101; 0; ISC1970S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19700101; 19701231; 90.0S; 90.0N; 180.0W; 180.0E; ; S017;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1970.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000018 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S017 1970	1 1	117	SUM	11.30	17.6000N	61.4000W	89.0	3	
S017 1970	1 1	119	SUM	30.00	15.9000N	60.8000W	88.0	14	
S017 1970	1 1	136	SUM	17.00	19.2500S	169.0000E		5	3.5U
S017 1970	1 1	143	SUM	48.00	8.5400N	83.3500W	33.0	141	5.3U
S017 1970	1 1	149	SUM	56.80	28.5300N	129.3900E	49.0	107	5.1U
S017 1970	1 1	329	SUM	30.00	4.9000S	102.8300E	170.0	31	4.9U
S017 1970	1 1	331	SUM	30.30	16.2000S	177.0200E	33.0	26	4.9U
S017 1970	1 1	444	SUM	42.00	29.4000S	90.6000W	33.0	7	
S017 1970	1 1	526	SUM	51.20	16.1700N	59.6900W	29.0	8	
S017 1970	1 1	533	SUM	2.00	43.1000N	145.7000E	45.0	2	3.8U

***** 11768 data cards not shown here *****
 C#FINIS DSN=SL000043

Table SL000044

C#DSN=SL000044;SIZE=011483;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=020;STRT=000001;
 C*DATE: 19780101; 0; ISC1971S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19710101; 19711231; 90.0S; 90.0N; 180.0W; 180.0E; ; S018;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1971.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000019 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S018	1971	1	1	1	6	SUM	10.00	30.8000N	75.6000E	33.0	0	4.9U
S018	1971	1	1	137		SUM	22.40	44.7070S	166.8710E	12.0	9	
S018	1971	1	1	141		SUM	10.00	50.3300N	18.8700E		0	2.6U
S018	1971	1	1	210		SUM	10.00	59.0650S	26.1490W	33.0	13	4.8U
S018	1971	1	1	312		SUM	49.40	38.0430N	20.4510E		12	
S018	1971	1	1	445		SUM	29.60	59.6240N	144.6490W		109	5.1U
S018	1971	1	1	453		SUM	49.70	16.6170S	168.0040E	33.0	6	
S018	1971	1	1	556		SUM	5.70	36.0840N	139.9580E	57.0	34	
S018	1971	1	1	650		SUM	52.90	47.7780N	128.6100W	33.0	11	
S018	1971	1	1	714		SUM	55.00	19.6900N	101.6000W	33.0	0	4.6U

***** 11370 data cards not shown here *****
 C#FINIS DSN=SL000044

Table SL000045

C#DSN=SL000045;SIZE=012010;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=021;STRT=000001;
 C*DATE: 19780101; 0; ISC1972S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19720101; 19721231; 90.0S; 90.0N; 180.0W; 180.0E; ; S019;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1972.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000020 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S019	1972	1	1	046	SUM	45.60	38.4420S	175.9190E	3.0	8		
S019	1972	1	1	144	SUM	13.20	5.4840S	153.0980E	58.0	27		
S019	1972	1	1	254	SUM	13.10	18.1600S	167.7180E	38.0	35		
S019	1972	1	1	741	SUM	30.60	26.3220S	27.3700E		5		
S019	1972	1	1	1015	SUM	48.50	4.6280S	155.2370E	510.0	146	5.2U	
S019	1972	1	1	1127	SUM	36.50	66.5850N	144.8710W	33.0	27	3.7U	
S019	1972	1	1	13	1	SUM	19.20	64.0400N	22.1660W	33.0	35	4.3U
S019	1972	1	1	14	4	SUM	42.90	5.0700S	153.2530E	40.0	35	
S019	1972	1	1	1441	SUM	53.10	64.1600N	22.2760W	33.0	21	4.3U	
S019	1972	1	1	1520	SUM	40.80	10.6050S	113.5060E	49.0	28		

***** 11897 data cards not shown here *****
 C#FINIS DSN=SL000045

Table SL000046

C#DSN=SL000046;SIZE=012374;DATE=032684;ARCH=JN;TAPE=SM9302;FILE=022;STRT=000001;
 C*DATE: 19780101; 0; ISC1973S;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM;
 C*ALPHA: 19730101; 19731231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01A;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1973.
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET WAS DERIVED FROM GL000021 BY USING A COMPUTER PROGRAM
 C* WRITTEN BY DEAN TOTTINGHAM, ARCHIVED AS GL000139
 C*REFERENCE: DATA TAPE FROM THE INTERNATIONAL SEISMOLOGICAL CENTRE, JAN. 10,
 C* 1978.
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----

S01A	1973	1	1	346	SUM	9.20	9.2940S	150.7290E	41.0	57	
S01A	1973	1	1	522	SUM	29.70	15.0810S	173.9160W	33.0	57	4.9U
S01A	1973	1	1	647	SUM	9.70	43.0000N	47.3000E		0	
S01A	1973	1	1	757	SUM	36.70	36.9980N	121.7490W	8.0	7	
S01A	1973	1	1	816	SUM	35.90	16.5360S	28.1080E		5	
S01A	1973	1	1	855	SUM	40.50	43.4000N	45.1000E		0	
S01A	1973	1	1	929	SUM	1.80	22.3890S	66.1280W	249.0	39	4.5U
S01A	1973	1	1	1142	SUM	36.10	35.5600S	15.5940W		130	5.3U
S01A	1973	1	1	1220	SUM	50.70	38.4480N	21.5380E		8	
S01A	1973	1	1	1320	SUM	53.60	16.4950S	28.3300E		6	

***** 12261 data cards not shown here *****
 C#FINIS DSN=SL000046

Table SL000047

C#DSN=SL000047;SIZE=013549;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=023;STRT=000001;
 C*DATE: 19770322; 0; ISC74NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19740101; 19741231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01B;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1974 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000031 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000031 WAS DERIVED FROM
 C* GL000023 USING THE PROGRAM ISCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01B 1974 1 1 3 3 SUM 9.80 6.7230S 148.1640E 4
 S01B 1974 1 1 322 SUM 53.40 35.9300N 118.1190W 4.0 2.4 0
 S01B 1974 1 1 547 SUM 26.30 20.1100S 173.8100W 33.0 36 4.4
 S01B 1974 1 1 554 SUM 43.10 18.6990S 168.8630E 118.0 6
 S01B 1974 1 1 652 SUM 4.30 19.9500S 170.4140E 33.0 23
 S01B 1974 1 1 7 0 SUM 21.60 20.0810S 170.1620E 33.0 9
 S01B 1974 1 1 742 SUM 26.90 19.9880S 170.1060E 33.0 9
 S01B 1974 1 1 757 SUM 4.60 21.5510N 142.8940E 333.0 127 4.9
 S01B 1974 1 1 928 SUM 44.90 22.0530S 176.8380W 212.0 55 4.6
 S01B 1974 1 1 936 SUM 56.10 14.5990S 166.3930E 46.0 17 4.7
 ***** 13432 data cards not shown here *****
 C#FINIS DSN=SL000047

Table SL000048

C#DSN=SL000048;SIZE=013992;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=024;STRT=000001;
 C*DATE: 19770322; 0; ISC75NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSON: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19750101; 19751231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01C;
 C*KEYW): ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1975 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000032 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000032 WAS DERIVED FROM
 C* GL000024 USING THE PROGRAM ISCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01C 1975 1 1 030 SUM 1.30 36.6660N 36.4850E 35.0 145 4.8
 S01C 1975 1 1 046 SUM 16.10 62.3660N 151.2230W 107.0 13
 S01C 1975 1 1 128 SUM 58.90 19.2700N 155.3460W 40.0 15
 S01C 1975 1 1 2 5 SUM 5.90 5.6180S 154.4750E 107.0 12
 S01C 1975 1 1 212 SUM 46.10 13.4440N 91.7440W 35.0 9 4.3
 S01C 1975 1 1 223 SUM 54.30 20.9240S 176.0600W 196.0 18 4.6
 S01C 1975 1 1 331 SUM 36.10 8.2550S 130.6290E 248.0 12
 S01C 1975 1 1 355 SUM 11.80 61.9170N 149.7240W 58.0 350 5.9
 S01C 1975 1 1 458 SUM 55.70 32.8040S 72.3610W 33.0 8
 S01C 1975 1 1 546 SUM 34.30 41.8720N 142.0180E 33.0 4
 ***** 13875 data cards not shown here *****
 C#FINIS DSN=SL000048

Table SL000049

C#DSN=SL000049;SIZE=015760;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=025;STRT=000001;
 C#DATE: 19770322; 0; ISC76NWS;
 C#CLASS: EARTHQUAKE; SUMMARY;
 C#PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C#ALPHA: 19760101; 19761231; 90.0S; 90.0N; 180.0W; 180.0E; ; 501D;
 C#KEYWD: ;
 C#TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C# SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1976 CONVERTED FROM THE NEIS
 C# FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C#AUTHOR: D.M. TOTTINGHAM
 C#INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C# UNITED KINGDOM
 C#ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000033 FROM THE ISC
 C# FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C# (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000033 WAS DERIVED FROM
 C# GL000025 USING THE PROGRAM ISCCONV1. BECAUSE THE DATA FILE IN THE
 C# NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C# RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C#REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCCONV1 (DSN=GL000030).
 C#FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C#END-----
 S01D 1976 1 1 0 4 SUM 5.60 38.4240N 21.7190E 18.0 122 4.6
 S01D 1976 1 1 015 SUM 17.00 38.3870N 21.8160E 10
 S01D 1976 1 1 032 SUM 40.80 66.1240N 16.7840W 10.0 58 4.8
 S01D 1976 1 1 121 SUM 21.60 38.4410N 21.7810E 7
 S01D 1976 1 1 129 SUM 35.20 28.7800S 177.3930W 23.0 431 6.2
 S01D 1976 1 1 140 SUM 54.40 38.6080N 21.7070E 7
 S01D 1976 1 1 145 SUM 35.30 29.6010S 177.6180W 191.0 44
 S01D 1976 1 1 147 SUM 53.00 33.4710N 116.5830W 11.0 7
 S01D 1976 1 1 149 SUM 34.80 28.9540S 177.3980W 150.0 22
 S01D 1976 1 1 159 SUM 10.60 29.4720S 176.9270W 33.0 37
 ***** 15643 data cards not shown here *****
 C#FINIS DSN=SL000049

Table SL000050

C#DSN=SL000050;SIZE=015689;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=026;STRT=000001;
 C*DATE: 19770322; 0; ISC77NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19770101; 19771231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01E;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1977 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000034 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000034 WAS DERIVED FROM
 C* GL000026 USING THE PROGRAM ISCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01E 1977 1 1 016 SUM 22.20 5.1450N 77.9560W 61.0 16 4.7
 S01E 1977 1 1 049 SUM 41.70 34.0990S 70.3790W 5.0 8
 S01E 1977 1 1 218 SUM 17.00 8.1850S 107.7010E 53.0 15
 S01E 1977 1 1 3 1 SUM 41.40 14.5600N 96.7800W 33.0 0
 S01E 1977 1 1 310 SUM 55.80 43.8000N 147.5330E 150.0 6
 S01E 1977 1 1 623 SUM 45.60 28.1330N 130.8470E 33.0 60 5.1
 S01E 1977 1 1 7 3 SUM 31.00 43.6000N 146.6990E 70.0 0
 S01E 1977 1 1 716 SUM 39.30 44.8240N 10.3340E 33.0 9
 S01E 1977 1 1 720 SUM 51.00 40.4000N 127.1990W 2.0 3.8 0
 S01E 1977 1 1 810 SUM 39.30 7.3860N 78.0910W 63.0 38 4.4
 ***** 15572 data cards not shown here *****
 C#FINIS DSN=SL000050

Table SL000051

C#DSN=SL000051;SIZE=016715;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=027;STRT=000001;
 C*DATE: 19770322; 0; ISC78NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19780101; 19781231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01F;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1978 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000035 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000035 WAS DERIVED FROM
 C* GL000027 USING THE PROGRAM ISCCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01F 1978 1 1 030 SUM 26.30 21.5810S 169.2940E 75.0 29 4.2
 S01F 1978 1 1 046 SUM 33.50 44.9930S 167.2000E 33.0 7
 S01F 1978 1 1 223 SUM 30.90 41.7640S 175.2540E 25.0 15
 S01F 1978 1 1 250 SUM 35.10 31.4060S 67.6860W 140.0 8
 S01F 1978 1 1 258 SUM 9.00 31.3460S 67.9150W 107.0 13
 S01F 1978 1 1 3 8 SUM 42.60 8.6680S 157.1870E 48.0 11 4.7
 S01F 1978 1 1 3 9 SUM 35.40 53.0210N 159.9850E 33.0 31 4.5
 S01F 1978 1 1 338 SUM 41.30 66.1680N 136.3950W 15
 S01F 1978 1 1 352 SUM 8.00 41.7500N 19.5100E 17 0 0
 S01F 1978 1 1 359 SUM 59.20 11.0320S 119.7100E 33.0 5
 ***** 16598 data cards not shown here *****
 C*FINIS DSN=SL000051

Table SL000052

C#DSN=SL000052;SIZE=018179;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=028;STRT=000001;
 C*DATE: 19770322; 0; ISC79NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19790101; 19791231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01G;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1979 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000036 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000036 WAS DERIVED FROM
 C* GL000028 USING THE PROGRAM ISCCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01G 1979 1 1 0 5 SUM 26.10 35.5370N 140.2080E 60.0 5
 S01G 1979 1 1 021 SUM 15.60 32.4030N 141.7830E 12.0 131 4.7
 S01G 1979 1 1 1 2 SUM 24.00 32.3100S 138.1490E 20.0 1.4 0
 S01G 1979 1 1 2 8 SUM 33.00 10.1950S 161.6040E 84.0 70 5.1
 S01G 1979 1 1 219 SUM 42.10 40.4870N 126.5040W 5.0 17 4.2
 S01G 1979 1 1 243 SUM 10.10 35.3170S 178.4910E 235.0 17 4.4
 S01G 1979 1 1 3 1 SUM 10.90 23.6910N 121.3410E 33.0 8
 S01G 1979 1 1 3 8 SUM 30.50 5.5530S 152.8380E 51.0 21 4.9
 S01G 1979 1 1 337 SUM 4.80 47.4000N 1.5000W 25.0 2.9 0
 S01G 1979 1 1 425 SUM 39.40 37.6380N 50.1760E 33.0 6 4.0
 ***** 18062 data cards not shown here *****
 C#FINIS DSN=SL000052

Table SL000053

C#DSN=SL000053;SIZE=020053;DATE=032884;ARCH=JN;TAPE=SM9302;FILE=029;STRT=000001;
 C*DATE: 19770322; 0; ISC80NWS;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19800101; 19801231; 90.0S; 90.0N; 180.0W; 180.0E; ; S01H;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
 C* SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1980 CONVERTED FROM THE NEIS
 C* FORMAT TO THE ISC FORMAT, THEN TO THE USGS FORMAT.
 C*AUTHOR: D.M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
 C* UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000037 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
 C* (GL000139) WRITTEN BY D. M. TOTTINGHAM. GL000037 WAS DERIVED FROM
 C* GL000029 USING THE PROGRAM ISCONV1. BECAUSE THE DATA FILE IN THE
 C* NEIS FORMAT WAS INCOMPLETE AND ROUNDED OFF, IT IS NOT POSSIBLE TO
 C* RECOVER THE ORIGINAL DATA IN THE ISC FORMAT COMPLETELY.
 C*REFERENCE: SEE DSN=GL000023 AND PROGRAM ISCONV1 (DSN=GL000030).
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000026 for details

C*END-----
 S01H 1980 1 1 025 SUM 22.60 73.8190N 10.4110W 33.0 7
 S01H 1980 1 1 124 SUM 37.10 12.3570N 95.1800E 19.0 173 4.9
 S01H 1980 1 1 2 9 SUM 25.10 36.2030N 120.8330W 14.0 10
 S01H 1980 1 1 245 SUM 55.20 27.3350N 60.3870E 40.0 235 5.3
 S01H 1980 1 1 3 8 SUM 15.70 42.8100N 13.0300E 28.0 0
 S01H 1980 1 1 353 SUM 42.30 7.1030S 129.7580E 123.0 12
 S01H 1980 1 1 428 SUM 40.60 32.9340N 115.5220W 5.0 4
 S01H 1980 1 1 430 SUM 45.90 39.2020S 74.6260W 33.0 12
 S01H 1980 1 1 456 SUM 3.90 38.5960N 69.4450E 33.0 9 4.1
 S01H 1980 1 1 5 5 SUM 44.20 54.9270N 2.7410W 3.0 41
 ***** 19936 data cards not shown here *****
 C#FINIS DSN=SL000053

Table SL000054

C#DSN=SL000054;SIZE=004005;DATE=040484;ARCH=JN;TAPE=SM9302;FILE=030;STRT=000001;
 C*DATE: 19790508; 0; CPLCT71;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
 C*ALPHA: 19710101; 19711231; 31.233N; 39.234N; 122.362W; 114.898W; ; S01I;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR THE YEAR 1971 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000065 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000081
 C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9,

C*			A, B, ..., Z, up to 35 cards. If any
C*			data record exceeds 35 cards (2800 bytes),
C*			then DATCOD=* and the last data card must be
C*			blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key
C*			to the kind of data that follows,
C*			IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds
C*			portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit;
C*			For some old quakes, the ORTIME may
C*			differ from the identification date
C*			and time. Use Y for year, N for
C*			month, D for day, H for hour, M
C*			for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S
C*			for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W
C*			for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP	Focal depth in km; decimal places
C*		or F5.2)	depends on teleseismic event (F5.1)
C*			or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth
C*			is determined; A=assigned, D=re-
C*			strained by pP, H=held at fixed
C*			depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of
C*			local magnitude; R=Richter scale
C*			using Wood-Anderson seismograms
C*			was assumed for this data set, due
C*			to the institution involved and time period
C*			considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase
C*			list cards to be followed.
C*	65-67	(I3) NUPHA	total number of phase readings for
C*			locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or	Maximum station gap in degrees (I3)
C*		or MB	for a local quake, or body-wave mag-
C*		F3.1)	nitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DMIN	Minimum station distance in km (I3)
C*		or MS	for a local quake, or surface-wave
C*		F3.1)	magnitude (F3.1) for a teleseismic
C*			event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or	rms residual in seconds (F3.1) for
C*		M	a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1971 4 24 04 28 13.87 32 55.43 115 32.17 C 2.9 08.0 1R

[illegible]

C* ON THE CPL CARD FOR 1971 06 22 09 53 THE LATITUDE IS GIVEN

C* AS 4.4507N. IT WAS NOT CHANGED EVEN THOUGH IT APPEARS TO
C* TO BE IN ERROR.

C*ENDNOTE

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S01I 1971 1 1 2036 CPL 18.44 33.9653N 119.3968W 8.0 3.0R 3
1 PASIP 3750 PASIS 5100 CLCEP 5670 CWCEP 6160 CWCIS 9540 GSCEP 6050
2 GSCIS 9700 ISAIP 4800 ISAIS 5650 MWCIP 3950 PLMEP 6580 PLMIS 9150
3 SBCIPU 2800 SBCIS 3700 SYPIPU 3200 SYPIS 4200 TINIP 7260 TINIS 11310
S01I 1971 1 2 219 CPL 13.08 35.7633N 117.5717W 8.0 2.8R 3
1 PASEP 4450 PASIS 6700 CLCIP 1460 CWCIP 2800 CWCIS 3820 GSCIPU 2750
2 GSCIS 3770 ISAIPU 2660 ISAIS 3480 PLMEP 5950 PLMES 9250 TINEP 3900
3 TINES 5870
S01I 1971 1 2 237 CPL 50.32 35.8143N 117.5503W 8.0 3.0R 4
***** 3792 data cards not shown here *****
C#FINIS DSN=SL000054

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1 PASTP 3750 PASTS 5100 CICEP 5670 CWCEP 6160 CWCTS 9540 GSCEP 6050

2 GSCIS 9700 TSAIP 4800 TSATS 5650 MWCTP 3950 PIMFP 6580 PIMTS 9150

3 SBCIPU 2800 SBCIS 3700 SYCIPU 3200 SYCIS 6200 TTINTP 7260 TTINTS 11310

SOIT 1971 1 2 219 CPI 13 08 35 7633N 117 5717W 8 0 2 8P 3

1 PASER	6450 PASTS	6700 CLCTP	1460 CWCIP	2800 CWCIS	3820 GSCIPU	2750
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2	GSCIS	3770	ISATRII	2660	ISATS	3680	PIMEP	5950	PIMES	9250	TINEP	3900
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3 TIMES 5870

SOIL 1971 1 2 237 CBI 50 32 35 2163N 117 5503U 2 0 3 0R 6

***** 7702 data cards not shown here *****

CAETINIC DSN=61000054

Table SL000055

C#DSN=SL000055;SIZE=003575;DATE=040484;ARCH=JN;TAPE=SM9302;FILE=030;STRT=004006;
C#DATE: 19820518; 0; CPLCT72;
C#CLASS: EARTHQUAKE; SUMMARY; PHASE;
C#PERSN: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
C#ALPHA: 19720101; 19721231; 30.414N; 37.790N; 121.687W; 115.000W; ; S01J;
C#KEYWD: SOUTHERN CALIFORNIA;
C#TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C# FOR THE YEAR 1972 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C# CONVERTED TO USGS STANDARDIZED FORMAT.
C#AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C#INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C#ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000082 FROM
C# THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000066
C# AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
C# PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C#REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C# (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C# 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C# CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C# HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C# SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C# TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C# INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C# WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C# EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C# BULL. SEISM. SOC. AM., 68,523-525.
C#
C#FORMAT: Two types of records are included in this file.
C# 1. Event Summary Card
C# 2. Condensed Phase Data Card
C#
C#
C#
C# EVENT SUMMARY CARD
C#

C#	COLUMNS	FORMAT	ITEM	EXPLANATION
C#	01-04	(A4)	REFNUM	Reference number to the data source
C#				to be supplied by the archivist.
C#	05	(A1)	blank	Space for overflow if year of the
C#				quake is B.C.
C#	06-09	(I4)	EVYEAR	4 digits for the year of the quake;
C#				If year is B.C., use "-" in column 5.
C#	10	(A1)	blank	
C#	11-12	(I2)	EVMON	2 digits for the month of the quake.
C#	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C#	15	(A1)	blank	
C#	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C#	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C#	20	(A1)	EVINDX	Event index if there are more than one
C#				quake within the same minute.
C#	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes
C#				are used for a data record, then DATCOD=k
C#				where k is the card sequence number with-
C#				in the data record, e.g., 1, 2, ..., 9,

C*			A, B, ..., Z, up to 35 cards. If any
C*			data record exceeds 35 cards (2800 bytes),
C*			then DATCOD=* and the last data card must be
C*			blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key
C*			to the kind of data that follows,
C*			IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds
C*			portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit;
C*			For some old quakes, the ORTIME may
C*			differ from the identification date
C*			and time. Use Y for year, N for
C*			month, D for day, H for hour, M
C*			for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S
C*			for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W
C*			for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP	Focal depth in km; decimal places
C*		or F5.2)	depends on teleseismic event (F5.1)
C*			or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth
C*			is determined; A=assigned, D=re-
C*			strained by pP, H=held at fixed
C*			depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of
C*			local magnitude; R=Richter scale
C*			using Wood-Anderson seismograms
C*			was assumed for this data set, due
C*			to the institution involved and time period
C*			considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase
C*			list cards to be followed.
C*	65-67	(I3) NUPHA	total number of phase readings for
C*			locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or	Maximum station gap in degrees (I3)
C*		or MB	for a local quake, or body-wave mag-
C*		F3.1)	nitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DMIN	Minimum station distance in km (I3)
C*		or MS	for a local quake, or surface-wave
C*		F3.1)	magnitude (F3.1) for a teleseismic
C*			event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or	rms residual in seconds (F3.1) for
C*		M	a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' ', the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1972

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CSPIP 720826165416.10 27.70ES
1972
CLCIP 720826165315.60 27.40IS
1972
CWCIP 720826165334.80 38.80IS
1972
GSCIP 720826165328.20 47.50IS
1972
ISAIP 720826165305.00 09.50IS
1972
MWCEP 720826165322.10 40.80ES
1972
PLMIP 720826165427.10 46.80ES
1972 9 30 17 1 29.11 33 54.05 117 39.66 D 2.5 5.91 1A 0.694.172.3599.00
I 7210
1972 10 31 21 58 32.14 32 52.85 115 29.23 B 2.5 08.0 1R 0.21 1.0 2.3 .
I 7211
C*ENDNOTE
C*END-----
S01J 1972 1 1 1437 CPL 30.03 34.3015N 118.3448W 9.73 1.7R 1
1 SCRIPU 3550 SCRISU 3900 IRCIPU 3326 MWC P 3587
S01J 1972 1 2 447 CPL 10.90 34.1603N 116.7180W 08.0 2.8R 5
1 PASEP 3290 PASES 4940 BAREP 3650 BARIS 5680 CSPIP 2060 CSPIS 2920
2 CLCEP 4200 CLCIS 6430 GLAEP 4450 GLAES 7140 GSCEP 2950 GSCES 4480
3 HAYIP 2790 HAYIS 4040 ISAEP 4740 ISAES 7420 LSMEP 5590 LSMIS 8900
4 MWCEP 3090 MWCIS 4750 PLMIP 2610 PLMIS 3900 PYREP 4200 RVRIPU 2100
5 RVRIS 2930
S01J 1972 1 3 236 CPL 1
***** 3381 data cards not shown here *****
C#FINIS DSN=SL000055

```

Table SL000056

C#DSN=SL000056;SIZE=005854;DATE=040484;ARCH=JN;TAPE=SM9302;FILE=031;STRT=000001;
C*DATE: 19820518; 0; CPLCT73;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSON: K. PIPER; J. H. WHITCOMB; J. T. NEWBERRY
C*ALPHA: 19730101; 19731231; 31.367N; 37.848N; 121.562W; 111.001W; ; S01K;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR THE YEAR 1973 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000083 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT, USING GL000067
C* AS A REFERENCE TO MINIMIZE ERRORS, CONVERTED BY A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C*
C* EVENT SUMMARY CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source
C*			C* to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the
C*			C* quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake;
C*			C* If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one
C*			C* quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes
C*			C* are used for a data record, then DATCOD=k
C*			C* where k is the card sequence number with-
C*			C* in the data record, e.g., 1, 2, ..., 9,

C*				A, B, ..., Z, up to 35 cards. If any
C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DA`KEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude

C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80)
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or or code for specifying M in columns
 C* MCODE 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
 C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUISEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
 C* blank summary cards. In the converted data set
 C* that follows, the seconds portion of the origin
 C* time information, the hypocentral information, and
 C* the magnitude determination were left blank when
 C* when a blank summary card was found in the original
 C* data set. The year, month, hour and minute of the
 C* event were inferred from the subsequent phase
 C* cards.

C* The condensed phase lists consist of P-arrival
 C* times and some S-arrival times. The PHRMKS
 C* array consists of: onset code (usually 'e', 'i',
 C* or ' '), the phase code ('p' or 's'), the first
 C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
 C* weighting factor, which is blank, since no first
 C* motion quality information was given in the orig-
 C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
 C* to the minute of the origin time given on the CPL
 C* summary card. For events where no summary information
 C* was given in the original data set, PHTIME is relative
 C* to the minimum minute of the P-arrival data from the
 C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
 C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
 C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1973 01 31 16 43 49.83 34 22.11 118 21.93 D 1.7

I 73 2

1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
PASEP 730513022936.40 42.70ES																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
BAREP 730513022958.00 80.10ES																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
GSCEP 730513022952.50 69.70ES																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
MWCIP 730513022935.30 40.50IS																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
PLMEP 730513022947.60 62.00ES																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
RVREP 730513022933.40 37.30IS																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
TPCEP 730513022952.80 70.50ES																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
TCNIPU3 730513022936.07 42.21ISD3																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
VPDIPD3 730513022936.41 43.19ISU3																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
SJRIPD3 730513022940.26 S																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
CISEP 4 730513022947.80 S																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
IRCIPJ3 730513022940.77 49.89ISU3																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
MWCIPU3 730513022935.34 40.96ISD3																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
PASIPU3 730513022936.80 43.38ISU3																	
1973	5	13	01	52	34.98	33	59.87	118	20.92	A	2.5	08.0	1R	0.11	0.9	0.7	.
CSPIPU3 730513022933.33 37.20ISD3																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
COKEPD2 730604113658.18 007.																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
SGLIP+1 730604113658.50 018.																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
AMSIPU0 730604113659.95 012.																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
COAEP 2 730604113659.40 021.																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
PLTIPD0 730604113664.50																	
1973	6	4	1	36	53.04	32	49.72	115	28.26	B	1.4	131	10.05	6	5	0.04	0.6 0.5
SNRIPU0 730604113655.45 012.																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
PASIP 730707115054.80 74.80IS																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
BARIP 730707115049.00 04.50IS																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
CLCEP 730707115119.20 S																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
CPEIP 730707115045.00 57.60IS																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
GLAEP 730707115112.50 36.00IS																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.
GSCIP 730707115115.50 S																	
1973	8	07	11	50	27.40	32	32.83	118	05.84	B	3.3	08.0	1R	0.30	1.4	2.6	.

HAYEP	730707115110.90	42.50ES							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
IKPIP	730707115056.30	78.00IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
ISAIP	730707115117.50	55.00IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
MWCIP	730707115056.00	70.10IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
PLMIP	730707115050.90	69.20IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
RVRIP	730707115054.40	72.30IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
SYPEP	730707115106.50	44.30IS							
1973	8 07 11 50 27.40	32 32.83 118 05.84 B 3.3	08.0	1R	0.30	1.4	2.6	.	
TPCEP	730707115107.80	42.00ES							
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
TWLIPU	731225170035.62	S							59
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
SCYIP	731225170039.18	S							58
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
IRCEP	731225170039.45	S							60
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
PASZEP	731225170042.17	47.72ISU 11.20							58
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
PYREP	731225170042.88	49.52ISU 40.30							54
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
TWLIPU0	731225170035.62	S							59
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
SCYIP 1	731225170039.18	S							58
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
IRCEP 1	731225170039.45	S							60
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
PASEP 3	731225170042.17	47.72ISU3 11.20							58
1973	12 26 06 18 25.52	35 25.40 114 51.08 D 3.1	8.0	1R					
PYREP 3	731225170042.88	49.52ISU3 40.30							54
1973	12 25 20 16 22.61	34 15.34 118 35.77 C 1.4	4.17	1A	0.080.0	0.0	0.0	0.0	
TWLIPD0	731226102353.93	55.40ES 3							50
1973	12 25 20 16 22.61	34 15.34 118 35.77 C 1.4	4.17	1A	0.080.0	0.0	0.0	0.0	
SCYIPD1	731226102357.45	S							57
1973	12 25 20 16 22.61	34 15.34 118 35.77 C 1.4	4.17	1A	0.080.0	0.0	0.0	0.0	
IRCIPU1	731226102353.88	S							50
1973	12 25 20 16 22.61	34 15.34 118 35.77 C 1.4	4.17	1A	0.080.0	0.0	0.0	0.0	
PYREP 3	731226102355.20	S							56
1973	12 25 20 16 22.61	34 15.34 118 35.77 C 1.4	4.17	1A	0.080.0	0.0	0.0	0.0	
PECEP	731226061804.42	S							

C*

C* A LINE CONSISTING OF ONLY THE CHARACTER '1' WAS REMOVED

C* FROM THE DATA SET SO IT COULD BE PROCESSED.

C*

C*ENDNOTE

C*END-----

S01K	1973	1 1	055	CPL	55.17	34.1725N	117.5457W	5.0	1.7R	1
1	TCHIPD2	6384	VPDIPD2	6389	CSPIPD2	6029	CSPISU1	6390	PECEP	3 6450
									PECISU2	7121
S01K	1973	1 2	245	CPL	48.57	33.6235N	117.3187W	08.0	3.1R	5
1	PASIP	6410	PASIS	7500	BARIP	6800	BARIS	8220	CPEIP	6250
									CPEIS	7280
2	CLCEP	8430	CLCES	11620	GSCIP	7850	GSCIS	10050	HAYIP	7390
									HAYIS	9240

3 IKPEP 7450 IKPES 9220 ISAEP 8560 ISAES 11600 MWCIP 6400 MWCIS 7520
4 PLMIP 5760 PLMIS 6280 RVRIP 5530 RVRIS 5980 TPCIP 6990 TPCIS 8510
5 SPHIPD2 6492 TCNIPD2 6168 VPDIPU1 5631 CSPIPU1 6074 PECIPD1 5427 PEC S 3 5794
S01K 1973 1 3 059 CPL 38.19 34.8175N 116.3222W 08.0 2.6R 4
***** 5572 data cards not shown here *****
C#FINIS DSN=SL000056

Table SL000057

C*DSN=SL000057;SIZE=006487;DATE=051684;ARCH=JN;TAPE=SM9302;FILE=032;STRT=000001;
C*DATE: 19820518; 0; CPLCT74;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSON: K. PIPER; J. T. NEWBERRY
C*ALPHA: 19740101; 19741231; 28.215N; 38.820N; 121.607W; 105.826W; ; S01L;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR THE YEAR 1974 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000084 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT BY A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C*
C*
C* EVENT SUMMARY CARD
C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any

C*			data record exceeds 35 cards (2800 bytes),
C*			then DATCOD=* and the last data card must be
C*			blank, except "END" in columns 22-24.
C*	22-24	(A3) DATKEY	3-letter code serving as a data key
C*			to the kind of data that follows,
C*			IN THIS CASE, 'CPL'.
C*	25	(A1) blank	A blank space for easy reading.
C*	26-30	(F5.2) ORTIME	Origin time; normally the seconds
C*			portion only.
C*	31	(A1) TMUNIT	1-character code for the time unit;
C*			For some old quakes, the ORTIME may
C*			differ from the identification date
C*			and time. Use Y for year, N for
C*			month, D for day, H for hour, M
C*			for minute, and blank for second.
C*	32-38	(F7.4) HYLAT	Hypocenter latitude in degrees.
C*	39	(A1) HYNS	N for the northern hemisphere or S
C*			for the southern hemisphere.
C*	40	(A1) blank	
C*	41-48	(F8.4) HYLON	Hypocenter longitude in degrees.
C*	49	(A1) HYEW	E for the eastern hemisphere or W
C*			for the western hemisphere.
C*	50	(A1) blank	
C*	51-55	(F5.1, HYDEP	Focal depth in km; decimal places
C*		or F5.2)	depends on teleseismic event (F5.1)
C*			or local quake (F5.2).
C*	56	(A1) HYDEPC	1-character code for how focal depth
C*			is determined; A=assigned, D=re-
C*			strained by pP, H=held at fixed
C*			depth, etc.
C*	57	(A1) blank	May be used for negative magnitude.
C*	58-60	(F3.1) ML	Local magnitude.
C*	61	(A1) MLCODE	1-character code for the type of
C*			local magnitude; R=Richter scale
C*			using Wood-Anderson seismograms
C*			was assumed for this data set, due
C*			to the institution involved and time period
C*			considered.
C*	62	(A1) blank	
C*	62-64	(I3) NUMCRD	total number of condensed phase
C*			list cards to be followed.
C*	65-67	(I3) NUPPHA	total number of phase readings for
C*			locating the quake.
C*	68	(A1) blank	
C*	69-71	(I3, GAP or	Maximum station gap in degrees (I3)
C*		or MB	for a local quake, or body-wave mag-
C*		F3.1)	nitude (F3.1) for a teleseismic event.
C*	72	(A1) blank	
C*	73-75	(I3, DMIN	Minimum station distance in km (I3)
C*		or MS	for a local quake, or surface-wave
C*		F3.1)	magnitude (F3.1) for a teleseismic
C*			event.
C*	76	(A1) blank	
C*	77-79	(F3.1) RMS or	rms residual in seconds (F3.1) for
C*		M	a local quake, or any magnitude
C*			(F3.1) for a teleseismic event (to be

C* specified by MCODE in column 80)
C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
C* or or code for specifying M in columns
C* MCODE 77-79, e.g., U=unspecified, W=moment
C* magnitude, etc.

C*
C* CONDENSED PHASE CARDS
C*

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
C* which have the following format:
C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*
C*
C*NOTE:

C* The originally supplied data files often contained
C* blank summary cards. In the converted data set
C* that follows, the seconds portion of the origin
C* time information, the hypocentral information, and
C* the magnitude determination were left blank when
C* when a blank summary card was found in the original
C* data set. The year, month, hour and minute of the
C* event were inferred from the subsequent phase
C* cards.
C*

C* The condensed phase lists consist of P-arrival
C* times and some S-arrival times. The PHRMKS
C* array consists of: onset code (usually 'e', 'i',
C* or ' ', the phase code ('p' or 's'), the first
C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
C* weighting factor, which is blank, since no first
C* motion quality information was given in the orig-
C* inal data set.
C*

C* PHTIME represents time (in seconds * 100) relative
C* to the minute of the origin time given on the CPL
C* summary card. For events where no summary information
C* was given in the original data set, PHTIME is relative
C* to the minimum minute of the P-arrival data from the
C* phase list.
C*

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.
C*

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1974 1 19 5 36 36.54 32 50.01 115 41.42 B 2.5 131 8.73 12 4 0.12 0.7 1.2
PLMIPD 740118053657.27 5

1974	1	19	5	36	36.54	32	50.01	115	41.42	B	2.5	131	8.73	12	4	0.12	0.7	1.2
IKPIPU	740118053644.12						49.42IS											
1974	3	4	3	23	29.26	34	12.19	117	29.82	C	2.0		6.58	1A	0.352.141.8451.83			
GLAZIPD	740304080317.90						29.90IS		28.10								48	
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
CPEEP	740322092002.70						20.50ES		0.70								25	
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
ING P	740322091935.70						45.50ES		.									
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
GLAZIPD	740322091936.80						47.50IS		29.50								99	
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
PLMEP	740322092001.60						20.10ES		2.70								70	
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
BARZEP	740322091949.00						68.50ES		1.60								50	
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
PLTEP	740322091931.60						38.40ES											
1974	3	22	08	59	06.32	32	21.29	115	03.32	D	2.5		3.19					
COAIPD	740322091933.80						43.40ES											
1974	3	29	7	35	16.56	32	43.29	115	24.16	D	0.8*166		2.78	5	16	0.12	3.5	16.8
WELIP-	740330073520.35																	
1974	3	29	7	35	16.56	32	43.29	115	24.16	D	0.8*166		2.78	5	16	0.12	3.5	16.8
HOSEPU2	740330073520.50																	
1974	3	29	7	35	16.56	32	43.29	115	24.16	D	0.8*166		2.78	5	16	0.12	3.5	16.8
CEMIPU	740330073519.51																	
1974	3	29	7	35	16.56	32	43.29	115	24.16	D	0.8*166		2.78	5	16	0.12	3.5	16.8
KUBIPU	740330073520.91																007	
1974	05	02	02	21	40.19	34	26.01	118	19.14	B	1.8		1.57	1R				
PLMIPU	740506041263.56						S											
1974	8	1	9	4	5.97	34	38.14	116	20.30	A	3.4	104	5.83	13	15	0.15	0.7	1.1
SBCN P											0.1							
1974	8	1	9	4	5.97	34	38.14	116	20.30	A	3.4	104	5.83	13	15	0.15	0.7	1.1
SBCE P											0.2							
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
MWCEP	740809022832.00						51.10ES		4.2								85	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
SBBIP	740809022827.10						44.00IS		25.5								76	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
CLCEP	740809022834.00						54.60 S		4.0								85	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
HAYIPD	740809022826.70						42.60 S		2.2								70	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
CSPIPU	740809022821.73						33.80ES										104	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PLMEP	740809022830.38																110	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PECIPD	740809022823.55																112	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
GSCEP	740809022819.47																	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PASZEP	740809022834.10						54.00ES		1.1								57	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
RVRZEP	740809022824.50						38.50ES		2.2								33	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
BARZEP	740809022840.20						66.50 S		1.5								60	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
GSCEP	740809022819.50						31.30IS		12.3								55	

1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PLMIPD					740809022830.30		48.90IS		8.9								80	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
SBBEP					740809022827.40		43.30ES										90	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
SPMIP	0				740809022820.15													
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
GRPIP+1					740809022816.95													
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PIUEP	2				740809022824.00											NOI		
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
HIDIP	0				740809022809.45												78	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
BHMHIP	0				740809022813.10												79	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
INSEP-2					740809022818.40												58	
1974	3	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
SHHIP+1					740809022818.70												48	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
CPMIP	0				740809022814.65												66	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
CSPIP+1					740809022821.80												33	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
PECIP+1					740809022823.60											REV	40	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
GSCEP-3					740809022819.50													
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
SBBEP+3					740809022827.20													
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
LAV5IPU0					740809022806.46											REV	42	
1974	8	8	22	36	2.85	34	39.16	116	21.08	A	2.0	109	5.16	8	4	0.04	0.3	0.8
FOR7IPU0					740809022807.66													
1974	8	12	02	30	16.22	32	47.09	115	28.66	B	2.5		15.3					
BARZEP					740812021344.10		57.50	S	0.9								70	
1974	8	14	15	26	47.16	34	17.39	116	35.75	A	2.1	129	8.44	8	2	0.08	0.6	0.6
PLMEP	2				74081415264.90													
1974	8	14	15	26	47.16	34	17.39	116	35.75	A	2.1	129	8.44	8	2	0.08	0.6	0.6
LAV5IP-1					74081415256.00											REV		
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
BARZEP					741012064301.80		21.50ES		1.3								48	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
CLCEP					741012064308.00		31.90IS		2.3								47	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
HAYEP					741012064252.20		64.00ES		2.5								45	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
RVRIPU					741012064247.89		57.50	S									70	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
SBBIPU					741012064255.78												90	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
PECIPU					741012064245.80		52.38ES										90	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
TPCIPU					741012064243.25		49.65ES										75	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
PLMIPD					741012064251.40												90	
1974	12	12	06	42	34.97	34	12.35	116	34.73	B	2.4		5.11					
CSPIPU					741012064247.10		56.09ISU										94	

1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
SBBIP 741012064255.50	70.10IS 30.6		59
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
TPCIPU 741012064243.00	48.60IS 16.5		43
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
RVRZIPU 741012064247.90	57.50IS 3.1		27
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
PLMIPD 741012064251.40	67.50IS 32.0		60
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
MWCEP 741012064257.50	74.10ES 1.8		30
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
ISAEP 741012064314.50	42.10ES 2.0		42
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
GSCEP 741012064255.50	71.50ES 1.8		40
1974 12 12 06 42 34.97	34 12.35 116 34.73 B 2.4	5.11	
PASZEP 741012064259.10	78.50ES 0.8		37

C*ENDNOTE

C*END-----

S01L 1974 1 1 322 CPL	3
1 &SCEP 7600 &SCES 9370 ISAIP 6100 MWCEP 8890 TPCEP 10010 CLCIPU 6130	
2 CLCISD 6800CWCZIPU 6330CWCZIS 7000CWCNEP 6350CWCNIS 7000CWCEEP 6350	
3CWCE S 7000	
S01L 1974 1 2 850 CPL	1
1 TWLIPD2 3510 TWLES 3 3940 SCYEP 2 3618 IRCIP 1 3250	
S01L 1974 1 2 1027 CPL	2
1 TWLEP 3 5928 TWLESD3 6332 SCYEP 2 6090 IRCIP 0 5680 PASIPD1 6166 PYRIP 1 6078	
2 PYRTS 3 6630	

***** 6182 Data cards not shown here *****

C#FINIS DSN=SL000057

Table SL000058

C*DSN=SL000058;SIZE=008380;DATE=051684;ARCH=JN;TAPE=SM9302;FILE=033;STRT=000001;
C*DATE: 19820518; 0; CPLCT75A;
C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
C*PERSN: K. PIPER; J. T. NEWBERRY
C*ALPHA: 19750101; 19750630; 30.085N; 37.826N; 121.500W; 111.595W; ; S01M;
C*KEYWD: SOUTHERN CALIFORNIA;
C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
C* FOR JAN/JUN 1975 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
C* CONVERTED TO USGS STANDARDIZED FORMAT.
C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000085 FROM
C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT BY A COMPUTER
C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
C* BULL. SEISM. SOC. AM., 68,523-525.
C*
C*FORMAT: Two types of records are included in this file.
C* 1. Event Summary Card
C* 2. Condensed Phase Data Card
C*
C*
C*
C* EVENT SUMMARY CARD
C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(A4)	REFNUM	Reference number to the data source
C*				to be supplied by the archivist.
C*	05	(A1)	blank	Space for overflow if year of the
C*				quake is B.C.
C*	06-09	(I4)	EVYEAR	4 digits for the year of the quake;
C*				If year is B.C., use "-" in column 5.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one
C*				quake within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes
C*				are used for a data record, then DATCOD=k
C*				where k is the card sequence number with-
C*				in the data record, e.g., 1, 2, ..., 9,
C*				A, B, ..., Z, up to 35 cards. If any

C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be

C* specified by MCODE in column 80)
C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
C* or or code for specifying M in columns
C* MCODE 77-79, e.g., U=unspecified, W=moment
C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
C* which have the following format:

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
C* blank summary cards. In the converted data set
C* that follows, the seconds portion of the origin
C* time information, the hypocentral information, and
C* the magnitude determination were left blank when
C* when a blank summary card was found in the original
C* data set. The year, month, hour and minute of the
C* event were inferred from the subsequent phase
C* cards.

C* The condensed phase lists consist of P-arrival
C* times and some S-arrival times. The PHRMKS
C* array consists of: onset code (usually 'e', 'i',
C* or ' ', the phase code ('p' or 's'), the first
C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
C* weighting factor, which is blank, since no first
C* motion quality information was given in the orig-
C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
C* to the minute of the origin time given on the CPL
C* summary card. For events where no summary information
C* was given in the original data set, PHTIME is relative
C* to the minimum minute of the P-arrival data from the
C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
GLAZIPU	750125111809.50						19.50IS		6.1									80

1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
SUIPU 750125111763.72																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
COKIPU 750125111763.08																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
INGIPU 750125111762.82																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
SGLIPD 750125111764.90																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
RUNIPU 750125111767.22																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
PLTIP 750125111771.00																		
1975	1	25	1	16	58.85	32	54.93	115	30.52	A	2.0	88	9.20	11	9	0.08	0.5	1.1
COAIP 750125111765.60																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
PLMZIPD 750307101644.20 53.90IS 12.2 68																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
RVRZIPU 750307101635.90 39.60IS 13.6 19																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
SBBZIPD 750307101647.40 58.80IS 34.4 63																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
TPCZIPU 750307101646.50 58.00IS 10.2 50																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
CISZIP 750307101653.70 71.00IS 12.2 34																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
SNSIP 750307101644.50 52.00IS 20.2 32																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
CPTIPD 750307101644.60 54.50IS 36.7 43																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
BARZIPD 750307101655.50 74.00IS 2.2 44																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
HAYEP 750307101654.00 71.00ES 1.7 45																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
RVRNIP 750307101635.70 68																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
RVREIP 750307101635.80 39.70IS 2.0 10																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
PECIPD 750307101634.70 68																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
RVRIPU 750307101635.96 39.60ISD 68																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
HIDIPU0 750307101645.05 42																		
1975	3	8	7	13	9.14	33	41.36	116	43.59	A	2.6	77	14.25	21	8	0.18	0.7	0.7
CPMIPU0 750307101644.95 45																		
1975	3	13	9	18	39.30	33	53.64	116	36.53	A	2.0	50	7.84	17	11	0.24	0.9	1.6
GLAZEP 750313100906.90 52.00IS 7.5 197																		
1975	3	13	9	18	39.30	33	53.64	116	36.53	A	2.0	50	7.84	17	11	0.24	0.9	1.6
PLMZEP 750313100931.00 74.90ES 4.7 125																		
1975	5	22	13	00	26.47	36	09.28	120	50.76	B	3.1	165	14.8	11	16	0.31	2.2	1.4
PRI 750522130030.3																		
1975	5	31	5	33	47.71	34	7.50	116	25.55	C	2.5	100	5.00	29	16	1.93	5.9	11.0
IKPZ P 75053105 8.2 66																		
THE FOLLOWING LINE WAS DELETED FROM THE ORIGINAL DATAFILE:																		
BARZEP 750314 60552.10 70.80ES 6.1 60																		
IT SHOULD PROBABLY HAVE A "1" INSERTED BETWEEN "4" AND "6".																		
C*ENDNOTE																		

C*END-----

S01M 1975	1 1	316	CPL	29.41	35.2587N	118.5300W	6.14	2.1R	3		
1PASZEP	5100	PASZES	6700	GSCEP	5600	GSCES	7830	ISAIPD	3700	IS AIS	4290
2 SYPIS	7400	SBBIPU	4450	SBBIS	5500	ISAIPD	3704	ISAISU	4240	PYRIPD	4231
3 SBBIPU	4442										

S01M 1975	1 1	751	CPL	38.64	34.2252N	117.4512W	6.82	2.9R	9		
1PASZIPU	4980	PASZ S	5810	CPEEP	6200	CPEIS	7950	GSCIPD	6040	GSCIS	7650
2 ISAIPU	6890	IS AIS	8950	MWCIPU	4780	MWCIS	5550	PLMIP	5670	PLMIS	6920
3RVRZIPD	4360	RVRZIS	4770	SYEP	7560	SYPES	10240	TPCIPU	6001	TPCIS	7560
4 SBBIPU	4880	SBBIS	5640	CLCEP	6760	CLCIS	8850	HAYEP	6760	HAYES	8950

***** 8148 data cards not shown here *****

C#FINIS DSN=SL000058

Table SL000059

C#DSN=SL000059;SIZE=006017;DATE=051684;ARCH=JN;TAPE=SM9302;FILE=034;STRT=000001;
 C#DATE: 19820518; 0; CPLCT75B;
 C#CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C#PERSN: K. PIPER; J. T. NEWBERRY
 C#ALPHA: 19750701; 19751231; 28.741N; 37.632N; 121.062W; 112.647W; ; S01N;
 C#KEYWD: SOUTHERN CALIFORNIA;
 C#TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C# FOR JUL/DEC 1975 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C# CONVERTED TO USGS STANDARDIZED FORMAT.
 C#AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C#INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C#ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000086 FROM
 C# THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT BY A COMPUTER
 C# PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C#REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C# (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C# 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C# CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C# HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C# SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C# TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C# INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C# WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C# EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C# BULL. SEISM. SOC. AM., 68,523-525.
 C#
 C#FORMAT: Two types of records are included in this file.
 C# 1. Event Summary Card
 C# 2. Condensed Phase Data Card
 C#
 C#
 C# EVENT SUMMARY CARD
 C#

C# COLUMNS	FORMAT	ITEM	EXPLANATION
C# 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C# 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C# 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C# 10	(A1)	blank	
C# 11-12	(I2)	EVMON	2 digits for the month of the quake.
C# 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C# 15	(A1)	blank	
C# 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C# 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C# 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C# 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any

C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-43	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places
C*				depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3)
C*				for a local quake, or body-wave mag-
C*				nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3)
C*				for a local quake, or surface-wave
C*				magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	rms residual in seconds (F3.1) for
C*				a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be

C* specified by MCODE in column 80)
C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
C* or or code for specifying M in columns
C* MCODE 77-79, e.g., U=unspecified, W=moment
C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
C* which have the following format:

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 1-2	C* (I2)	C* NUMSEQ	C* Sequence number for the condensed C* phase list cards.
C* 3-6	C* (A4)	C* PHNAME	C* 4-character code for the station name.
C* 7-10	C* (4A1)	C* PHRMKS	C* An array of 4 1-character elements.
C* 11-15	C* (I5)	C* PHTIME	C* The meaning of PHTIME depends on C* what is coded in PHRMKS.
C* 16-80	C* (5(A4,4A1,I5))		C* 5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
C* blank summary cards. In the converted data set
C* that follows, the seconds portion of the origin
C* time information, the hypocentral information, and
C* the magnitude determination were left blank when
C* when a blank summary card was found in the original
C* data set. The year, month, hour and minute of the
C* event were inferred from the subsequent phase
C* cards.

C* The condensed phase lists consist of P-arrival
C* times and some S-arrival times. The PHRMKS
C* array consists of: onset code (usually 'e', 'i',
C* or ' ', the phase code ('p' or 's'), the first
C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
C* weighting factor, which is blank, since no first
C* motion quality information was given in the orig-
C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
C* to the minute of the origin time given on the CPL
C* summary card. For events where no summary information
C* was given in the original data set, PHTIME is relative
C* to the minimum minute of the P-arrival data from the
C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1975 7 28 11 46 09.72 34 59.20 118 41.16 B 3.0 128 8.00 28 31 0.70 1.7 4.6
CSPEP 750728092514.90 . .

1975	7	28	11	46	09.72	34	59.20	118	41.16	B	3.0	128	8.00	28	31	0.70	1.7	4.6	
PECEP	750728092507.76				16.15ES														
1976	7	3	18	4	3.34	34	3	.90	118	46.20	B	1.3	332	5.00	3	54	5.75	0.0	0.0
RYSIP	1 760731181406.85				11														
1976	7	3	18	4	3.34	34	3	.90	118	46.20	B	1.3	332	5.00	3	54	5.75	0.0	0.0
ABLIP-1	760731181410.80				WEK										8				
1976	7	3	18	4	3.34	34	3	.90	118	46.20	B	1.3	332	5.00	3	54	5.75	0.0	0.0
PKMIP-1	760731181428.90																		
1975	8	13	03	00	50.27	35	16.31	118	34.49	B	2.3	135	5.84	15	44	0.55	2.1	5.8	
PASZEP	750813135808.60				27.20IS				8.6				90						
1975	8	17	5	37	36.90	33	31.62	116	33.77	B	2.2	153	11.77	18	29	0.14	0.8	1.0	
CLCEP	750817002501.30																		
1975	10	01																	
RMRIP	0	751001101320.10	NOI																37
1975	10	01																	
HDGIP+1	751001101323.00																		
1975	10	01																	
CPMEP-3	751001101325.90																		
1975	10	01																	
INSIPD0	751001101328.10				20														
1975	10	01																	
PNMEP	3	751001101333.05																	
1975	10	01																	
LEDIPU0	751001101328.70				41														
1975	10	01																	
GRPEP+2	751001101334.75																		
1975	10	01																	
IRNEP+2	751001101339.20																		
1975	10	01																	
C02EP	2	751001101339.05																	
1975	10	01																	
BC2EP	3	751001101340.50																	
1975	10	01																	
SDWIP	1	751001101310.72																	
1975	10	01																	
DVLEP	2	751001101323.85																	
1975	10	01																	
CKCIP+1	751001101322.59																		
1975	10	01																	
CFTEP	2	751001101323.40																	
1975	10	01																	
MLLIP+1	751001101320.93																		
1975	10	01																	
MDAEP	2	751001101324.90																	
1975	10	01																	
WWREP	2	751001101322.95																	
1975	10	01																	
SMEEP+2	751001101328.50																		
1975	10	01																	
DB2EP	2	751001101327.93	32																
1975	10	01																	
CSPIP+1	751001101323.70																		
1975	10	01																	
TPCEP	3	751001101328.20																	
1975	10	01																	
PECIP+1	751001101325.90				REV														

1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
GSCZIPU 751010173921.90	36.60IS 5.5 67
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
ISAZIPU 751010173920.70	31.90IS 7.3 85
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
MWCZEP 751010173937.50	61.20IS 2.3 49
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
SBBZIPD 751010173927.60	42.90IS 14.5 54
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
CLCZIPU 751010173907.90	. . 99
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
IRCEP 751010173936.30	. .
1975 10 11 17 39 21.16	34 32.64 116 25.80 C 1.6 152 8.38 12 17 0.20 1.3 4.8
CSPEP 751010173934.19	. .
1975 12 06 16 43 51.01	33 57.51 116 35.26 A 1.5 75 9.11 16 7 0.09 0.4 1.1
RAYEP-2 751506164355.20	60
1975 12 8 22 53 44.80	34 18.26 116 19.89 A 1.5 94 7.49 11 14 0.12 0.7 3.1
GLAZIPD 751209041141.5	69.0 ES 09.9 73
1975 12 8 22 53 44.80	34 18.26 116 19.89 A 1.5 94 7.49 11 14 0.12 0.7 3.1
PLMZEP 751209041204.4	49.4 ES 01.5 71
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
LTCEP 3 751214110063.30	24
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
DAHEP-2 751214110053.10	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
PICEP-2 751214110057.50	21
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
LGAEP 3 751214110058.40	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
FTMEP 3 751214110059.80	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
YMDEP 3 751214110056.70	18
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
CRREP+2 751214110058.80	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
SGLIPU0 751214110054.10	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
INGEP 3 751214110055.15	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
SNREP-2 751214110053.95	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
COAIPD0 751214110053.20	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
BONIP 0 751214110050.30	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
BSCEP 2 751214110051.50	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
PLTIP+1 751214110054.70	
1975 12 14 10 20 30.54	33 36.45 116 35.95 C 1.5 276 8.00 6 6 0.31 4.6 2.4
SLUEP-2 751214110053.90	

C*ENDNOTE

C*END-----

S01N 1975 7 1 1 7 CPL 10.31 34.2353N 116.6720W 7.37 1.7R 3
 1 RMRIP 0 1240 HIDIPU0 1710 CPMIP-1 1810 INSEP 3 2010 LEDEP+2 2230 GRPEP 3 2930
 2 BLUEP 3 2698 SDWIP-1 1970 SDWES 2 2659 MLLIP 1 1539 MDAEP+2 1842 WWRIP 1 1498
 3 DB2EP 3 2137 KEEEP 3 2122 CSPEP 3 2120 PLMEP 3 2870 PECIP+1 2025

S01N 1975 7 1 450 CPL 31.13 37.3248N 116.1353W 12.0 4.1R 6
 1PASZEP 8950PASZIS 14350CPEZEP 10550CPEZIS 17120GLAZEP 10000GLAZIS 17610
 2GSCZIPD 6660GSCZIS 9310ISAZIPD 7190ISAZIS 10300MWCZEP 8790MWCZIS 14000
 3PLMZIP 9460PLMZIS 15800RVRZEP 8660RVRZIS 13900SBBZIP 7820SBBZIS 11650
 4TPCZIPU 8400TPCZIS 13560CLCZIPD 6320CLCZIS 8860 CPTEP 9680 CPTIS 15990
 ***** 5734 data cards not shown here *****
 C#FINIS DSN=SL000059

Table SL000060

C#DSN=SL000060;SIZE=008302;DATE=051684;ARCH=JN;TAPE=SM9302;FILE=035;STRT=000001;
 C*DATE: 19820518; 0; CPLCT76A;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: K. PIPER; J. T. NEWBERRY
 C*ALPHA: 19760101; 19706301; 30.973N; 38.577N; 120.544W; 112.496W; ; S010;
 C*KEYWD: SOUTHERN CALIFORNIA;
 C*TITLE: HYPOCENTERS AND PHASE DATA FOR SOUTHERN CALIFORNIA EARTHQUAKES
 C* FOR JAN/JUN 1976 COMPILED BY THE CALIFORNIA INSTITUTE OF TECHNOLOGY,
 C* CONVERTED TO USGS STANDARDIZED FORMAT.
 C*AUTHOR: CALIFORNIA INSTITUTE OF TECHNOLOGY
 C*INSTITUTION: CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CA 91125
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000087 FROM
 C* THE CIT FORMAT TO THE USGS STANDARDIZED FORMAT BY A COMPUTER
 C* PROGRAM WRITTEN BY J. T. NEWBERRY, ARCHIVED AS GL000138.
 C*REFERENCE: FRIEDMAN, M. E., WHITCOMB, J. H., ALLEN, C. R., AND HILEMAN, J. A.
 C* (1976). SEISMICITY OF THE SOUTHERN CALIFORNIA REGION:
 C* 1 JANUARY 1972 TO 31 DECEMBER 1974, SEISMOLOGICAL LABORATORY,
 C* CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* HILEMAN, J. A., ALLEN, C. R., AND NORDQUIST, J. M. (1973).
 C* SEISMICITY OF THE SOUTHERN CALIFORNIA REGION: 1 JANUARY 1932
 C* TO 31 DECEMBER 1972, SEISMOLOGICAL LABORATORY, CALIFORNIA
 C* INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
 C* WHITCOMB, J. H. (1978). P- AND S-PHASE DATA FROM LOCAL
 C* EARTHQUAKES IN SOUTHERN CALIFORNIA FOR 1966 TO 1975,
 C* BULL. SEISM. SOC. AM., 68,523-525.
 C*
 C*FORMAT: Two types of records are included in this file.
 C* 1. Event Summary Card
 C* 2. Condensed Phase Data Card
 C*
 C*
 C* EVENT SUMMARY CARD
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	C* (A4)	C* REFNUM	C* Reference number to the data source to be supplied by the archivist.
C* 05	C* (A1)	C* blank	C* Space for overflow if year of the quake is B.C.
C* 06-09	C* (I4)	C* EVYEAR	C* 4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	C* (A1)	C* blank	
C* 11-12	C* (I2)	C* EVMON	C* 2 digits for the month of the quake.
C* 13-14	C* (I2)	C* EVDAY	C* 2 digits for the day of the quake.
C* 15	C* (A1)	C* blank	
C* 16-17	C* (I2)	C* EVHOUR	C* 2 digits for the hour of the quake.
C* 18-19	C* (I2)	C* EVMIN	C* 2 digits for the minute of the quake.
C* 20	C* (A1)	C* EVINDX	C* Event index if there are more than one quake within the same minute.
C* 21	C* (A1)	C* DATCOD	C* Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number with- in the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any

C*				data record exceeds 35 cards (2800 bytes),
C*				then DATCOD=* and the last data card must be
C*				blank, except "END" in columns 22-24.
C*	22-24	(A3)	DA`KEY	3-letter code serving as a data key
C*				to the kind of data that follows,
C*				IN THIS CASE, 'CPL'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds
C*				portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit;
C*				For some old quakes, the ORTIME may
C*				differ from the identification date
C*				and time. Use Y for year, N for
C*				month, D for day, H for hour, M
C*				for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S
C*				for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W
C*				for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, HYDEP		Focal depth in km; decimal places
C*		or F5.2)		depends on teleseismic event (F5.1)
C*				or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth
C*				is determined; A=assigned, D=re-
C*				strained by pP, H=held at fixed
C*				depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of
C*				local magnitude; R=Richter scale
C*				using Wood-Anderson seismograms
C*				was assumed for this data set, due
C*				to the institution involved and time period
C*				considered.
C*	62	(A1)	blank	
C*	62-64	(I3)	NUMCRD	total number of condensed phase
C*				list cards to be followed.
C*	65-67	(I3)	NUMPHA	total number of phase readings for
C*				locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, GAP or		Maximum station gap in degrees (I3)
C*		or MB		for a local quake, or body-wave mag-
C*		F3.1)		nitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, DMIN		Minimum station distance in km (I3)
C*		or or MS		for a local quake, or surface-wave
C*		F3.1)		magnitude (F3.1) for a teleseismic
C*				event.
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or	rms residual in seconds (F3.1) for
C*			M	a local quake, or any magnitude
C*				(F3.1) for a teleseismic event (to be

C* specified by MCODE in column 80)
C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
C* or or code for specifying M in columns
C* MCODE 77-79, e.g., U=unspecified, W=moment
C* magnitude, etc.

C* CONDENSED PHASE CARDS

C* 81-(NUMCRD+1)*80 NUMCRD of condensed phase list cards
C* which have the following format:

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	1-2	(I2)	NUMSEQ	Sequence number for the condensed phase list cards.
C*	3-6	(A4)	PHNAME	4-character code for the station name.
C*	7-10	(4A1)	PHRMKS	An array of 4 1-character elements.
C*	11-15	(I5)	PHTIME	The meaning of PHTIME depends on what is coded in PHRMKS.
C*	16-80	(5(A4,4A1,I5))		5 repeats of (PHNAME,PHRMKS,PHTIME).

C*NOTE:

C* The originally supplied data files often contained
C* blank summary cards. In the converted data set
C* that follows, the seconds portion of the origin
C* time information, the hypocentral information, and
C* the magnitude determination were left blank when
C* when a blank summary card was found in the original
C* data set. The year, month, hour and minute of the
C* event were inferred from the subsequent phase
C* cards.

C* The condensed phase lists consist of P-arrival
C* times and some S-arrival times. The PHRMKS
C* array consists of: onset code (usually 'e', 'i',
C* or ' ', the phase code ('p' or 's'), the first
C* motion ('+', '-', 'u', 'd', 'c', or 'd'), and the
C* weighting factor, which is blank, since no first
C* motion quality information was given in the orig-
C* inal data set.

C* PHTIME represents time (in seconds * 100) relative
C* to the minute of the origin time given on the CPL
C* summary card. For events where no summary information
C* was given in the original data set, PHTIME is relative
C* to the minimum minute of the P-arrival data from the
C* phase list.

C* THE FOLLOWING IS A LIST OF DATA CARDS WHICH WERE REMOVED FROM
C* THE DATA SET DUE TO INCOMPATABILITY WITH THE GIVEN SUMMARY
C* DATA, OR WERE FOR SOME OTHER REASON DEEMED UNPROCESSABLE.

C*UNPROCESSABLE PHASE DATA AND CORRESPONDING SUMMARY CARD

1976 1 27 12 30 13.42 31 49.99 115 51.34 C 2.9 254 7.77 17 91 0.59 12.9 5.8
THREP-2 760127150426.17

1976	1	27	12	30	13.42	31	49.99	115	51.34	C	2.9	254	7.77	17	91	0.59	12.9	5.8	
BLUEP 3 760127150428.20																			
1976	1	27	12	30	13.42	31	49.99	115	51.34	C	2.9	254	7.77	17	91	0.59	12.9	5.8	
SSKEP 2 760127150431.52																			
1976	2	04	20	04		35	03.	117	38.	Q									BORON
CO2IPD0 760205051443.80																			
1976	3	20	02	37	30.01	33	42.19	116	49.75	A	2.8	72	14.1	24	15	0.22	0.8	0.9	
VSTEP-3 760320023741.40																			
1976	3	21	10	10	27.76	33	23.56	116	27.39	A	2.9	57	12.1	18	33	0.19	0.9	1.7	
INSIP 0 60321101038.50																	34		
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
DAHIP 1 760323110708.95																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
YMDIPU0 760323110713.80																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
SUPEP+2 760323110713.55																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
SGLIPD0 760323110707.70																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
COAEP 2 760323110712.35																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
RUNIP-1 760323110713.75																			
1976	3	23	10	42	28.39	35	41.98	118	20.20	P	2.1		3.11						
BONEP 3 760323110709.21																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
CPEZIP 760328190706.00																	24.00IS	16.6	42
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
GLAZIPU 760328190704.60																	25.00IS	9.8	90
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
PLMZIPD 760328190710.00																	31.40ISU	21.7	57
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
CPTZEP 760328190712.50																	36.00ES	2.9	48
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
BARZIPD 760328190659.00																	72.20IS	21.6	60
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
BARNIP 760328190659.00																	72.20IS	1.4	20
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
LTCEP+2 760328190669.00																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
IKPIP-1 760328190654.80																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
GLAEP+2 760328190664.60																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
DAHEP 2 760328190656.90																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
PICEP 2 760328190664.60																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
LGAEP 2 760328190664.50																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
FTMEP 2 760328190664.55																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
SUPIP-1 760328190659.90																	55		
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
CRRIPD0 760328190658.60																			
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5	
COKEP 3 760328190658.70																			
NOI																			

1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5
SGLIPD0 760328190654.40																	65	
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5
COAEP 2 760328190661.60																		
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5
RUNIP+1 760328190662.45																		
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5
MDAEP 3 760328190680.58																		
1976	3	28	16	49	36.10	34	26.52	116	29.70	B	2.4	135	8.35	24	18	0.16	0.5	1.5
VGREP 3 760328190678.01																		
1976	4	02	23	04		35	03.	117	38.	Q								BORON
THRIPU0 760402230445.01																		
1976	4	02	23	04		35	03.	117	38.	Q								BORON
SDWIP-1 760402230448.22																		
1976	4	02	23	04		35	03.	117	38.	Q								BORON
SWMIP-1 760402230451.07																	REV	60
1976	4	02	23	04		35	03.	117	38.	Q								BORON
SBBIPU0 760402230442.95																		
1976	4	02	23	04		35	03.	117	38.	Q								BORON
PECIPD0 760402230458.50																	REV	
1976	4	9	23	52	7.48	33	56.58	115	57.72	B	1.8	143	8.82	12	15	0.12	0.7	1.1
INGIPD0 760414040341.75																		
1976	4	9	23	52	7.48	33	56.58	115	57.72	B	1.8	143	8.82	12	15	0.12	0.7	1.1
SNRIPU0 760414040338.20																	25	
1976	4	9	23	52	7.48	33	56.58	115	57.72	B	1.8	143	8.82	12	15	0.12	0.7	1.1
COAEP 3 760414040342.90																	NOI	
1976	4	9	23	52	7.48	33	56.58	115	57.72	B	1.8	143	8.82	12	15	0.12	0.7	1.1
RUNIP 0 760414040344.70																		
1976	4	9	23	52	7.48	33	56.58	115	57.72	B	1.8	143	8.82	12	15	0.12	0.7	1.1
BONEP 3 760414040342.40																	NOI	
1976	4	21	15	11		34	04.	117	21.	Q								SLOVER
SMEIP-1 760420151128.64																	31.86ES 3	
1976	4	21	15	11		34	04.	117	21.	Q								SLOVER
VPDIP-1 760420151132.73																		
1976	5	23	13	30	20.40	33	40.11	116	47.81	A	3.3	24	16.7	58	14	0.43	0.8	2.2
MLLEP 2 760223133028.80																		
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
KYPIP-1 760618181614.92																	20.00IS-1	30
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
ECFIP+1 760618181616.05																	40	
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
PTDIPD0 760618181616.04																	30	
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
CISEP-2 760618181626.21																		
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
MWCEP+2 760618181618.96																		
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
SCYIPU0 760618181615.12																		
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
TWLIPU0 760618181612.11																	15.12IS-1	50
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
IRCIPU0 760618181613.49																	17.58ES 2	50
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
PYRIPD0 760618181613.35																	50	
1976	6	17	18	16	08.91	34	21.98	118	39.98	A	2.2	73	11.6	10	12	0.15	0.8	2.0
SWMIP-1 760618181615.55																	REV	50

1976 6 17 21 35 45.02 34 23.48 116 22.77 A 2.7 116 0.41 23 26 0.16 0.5 3.2
 1676 6 17 21 37 35 02. 118 19. Q MOJAVE
 1976 6 30 21 58 7.30 33 53.25 115 30.96 B 2.6 79 1.31 15 5 0.67 3.0710.6
 PICEP 3 760616215629.15

THE FOLLOWING LINES WERE ALSO DELETED:

LTMEP+2 760127013055.#0

PSPEP 2 760127013053.#6

C*ENDNOTE

C*END-----

S010 1976 1 1 132 CPL 51.95 32.9153N 115.6403W 13.98 1.4R 1

1 SUPIP 0 5560 CRRIPU0 5780 COKIPU0 5505 SGLIPD0 5755

S010 1976 1 1 147 CPL 54.86 33.5168N 116.5880W 8.00 3.3R 15

1PASZIP 8100PASZIS 10050CPEZIPD 6860CPEZIS 7910GLAZIPD 8100GLAZIS 9960

2GSCZIP 8570GSCZIS 10950ISAZIP 10250ISAZIS 13800MWCZIP 8000MWCZIS 9900

3PLMZIPU 6050RVRZIPU 6960RVRZIS 7900SBBZIP 8500SBBZIS 10420SCIZIP 8470

4SCIZIS 10750TPCZIPD 6850TPCZIS 7600CISZIPD 8110CISZIS 9990CLCZIP 9340

5CLCZIS 13050PLMNIP 6060PLMNIS 6490CPTZIPU 6700CPTZIS 7550BARZIPD 6990

6BARZIS 8080BARNIPD 7000BARNIS 8100 RMRIP 0 6765 HDGIP 0 7190 CPMIP 0 6790

***** 8006 data cards not shown here *****

C#FINIS DSN=SL000060

Table SL000061

C*DSN=SL000061;SIZE=008124;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=036;STRT=000001;
 C*DATE: 19831017;99; ICALP71S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19710101;19711231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1971
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000049 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000049 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS
 C*
 C* THE FILE IS ARRANGED SUCH THAT AN EVENT SUMMARY
 C* CARD IS FOLLOWED BY THE RELEVANT PHASE CARDS.
 C* IF NO SUMMARY INFORMATION WAS GIVEN, A BLANK CARD
 C* APPEARS IN ITS PLACE, PRECEDING THE PHASE CARDS.
 C*
 C* THE SUMMARY CARD APPEARS AS FOLLOWS:
 C*

C* COLUMNS	C* FORMAT	C* ITEM	C* EXPLANATION
C* 01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C* 05	(A1)	blank	Space for overflow if year of the quake is B.C.
C* 06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C* 10	(A1)	blank	
C* 11-12	(I2)	EVMON	2 digits for the month of the quake.
C* 13-14	(I2)	EVDAY	2 digits for the day of the quake.
C* 15	(A1)	blank	
C* 16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C* 18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C* 20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C* 21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C* 22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C* 25	(A1)	blank	A blank space for easy reading.

C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*				
C*	31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*				
C*				
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*				
C*	40	(A1)	blank	
C*	41-48	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYEW	E for the eastern hemisphere or W for the western hemisphere.
C*				
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2).
C*				
C*	56	(A1)	HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*				
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of local magnitude; R=Richter scale using Wood-Anderson seismograms was assumed for this data set, due to the institution involved and time period considered.
C*				
C*				
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum intensity. PDE notation is used: 1 to 9 for I to IX, X for X, E for XI, and T for XII.
C*				
C*				
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for locating the quake.
C*				
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*				
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*				
C*	76	(A1)	blank	
C*	77-79	(F3.1)	RMS or M	RMS residual in seconds (F3.1) for a local quake, or any magnitude (F3.1) for a teleseismic event (to be specified by MCODE in column 80).
C*				
C*	80	(A1)	HYQUAL or MCODE	HYP071 quality code for a local quake, or code for specifying M in columns 77-79, e.g., U=unspecified, W=moment
C*				

C* magnitude, etc.

C*

C* THE PHASE CARD APPEARS AS FOLLOWS:

C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(I4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	Space for overflow if year of the quake is B.C.
C*	06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "-" in column 5.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'PH1'.
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-29	(A4)	PHAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)		4-character code for the station name; the last character usually denotes the component of the instrument.
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.
C*	35-38	(A4)	PHPRMK	4-character code for the P-phase remark.
C*	39	(A1)	blank	
C*	40-44	(F5.2)	PHPARR	P-phase arrival time in seconds.
C*	45	(A1)	blank	
C*	46-49	(A4)	PHSRMK	4-character code for the S-phase remark.
C*	50-55	(F6.2)	PHSARR	S-phase arrival time in seconds.
C*	56	(A1)	blank	
C*	57-60	(I4)	PHFMP	Signal duration in seconds.
C*	61	(A1)	blank	
C*	62-64	(A3)	PHRMK	General remark.
C*	65-69	(F5.1)	AMPX	Maximum trace amplitude (peak-to peak) in mm.
C*	70	(A1)	LETR	Amplitude measurement scale ('M' for micrometer, blank for nm).

C* 71-74 (F4.2) PRX Period in seconds associated
 C* with the maximum trace amplitude.
 C* 75-80 (F6.2) DT Clock correction in seconds to
 C* be added to the arrival times.

C*END-----

S01P 1971	1 1	2036	SUM	18.40	33.9700N	119.4000W	8.0	
S01P 1971	1 1	2036	PH	ISC	BCN	IP	36.50	
S01P 1971	1 2	219	SUM	13.10	35.7700N	117.5700W	8.0	
S01P 1971	1 2	219	PH1	ISC	BCN	IP	54.10	
S01P 1971	1 2	219	PH1	ISC	EUR	IP	26.00	SZP 1.0 0.60
S01P 1971	1 2	237	SUM	50.30	35.8200N	117.5500W	8.0	
S01P 1971	1 2	237	PH1	ISC	BCN	IP	30.50	
S01P 1971	1 2	237	PH1	ISC	EUR	IP	2.60	SZP 2.9 0.60
S01P 1971	1 2	627	SUM	37.48	35.9670N	120.8320W	8.0	
S01P 1971	1 2	627	PH1	ISC	PRI	IPc	42.40	

***** 7943 data cards not shown here *****

C#FINIS DSN=SL000061

Table SL000062

C#DSN=SL000062;SIZE=006093;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=037;STRT=000001;
 C*DATE: 19831017;99; ICALP725;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19720101;19721231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1972
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000050 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000050 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01Q 1972 1 2 1525 SUM 46.70 40.4650N 124.7420W 8.0
 S01Q 1972 1 2 1525 PH1 ISC FHC IPc 2.20
 S01Q 1972 1 2 1525 PH1 ISC MIN IPd 26.30
 S01Q 1972 1 2 1525 PH1 ISC BKS IPc 38.30
 S01Q 1972 1 2 1525 PH1 ISC JAS P 53.00
 S01Q 1972 1 3 415 SUM 11.80 41.4610N 126.0210W 8.0
 S01Q 1972 1 3 415 PH1 ISC FHC IPc 40.80 S 20.2
 S01Q 1972 1 3 415 PH1 ISC MIN IPc 7.00 S 41.0
 S01Q 1972 1 3 415 PH1 ISC BKS EP 2 23.00
 S01Q 1972 1 3 415 PH1 ISC JAS P 36.00
 ***** 5912 data cards not shown here *****
 C#FINIS DSN=SL000062

Table SL000063

C#DSN=SL000063;SIZE=006725;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=038;STRT=000001;
 C*DATE: 19831017;99; ICALP73S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19730101;19731231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1973
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000051 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000051 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01R 1973 1 1 757 SUM 36.69 36.9980N 121.7490W 8.0
 S01R 1973 1 1 757 PH1 ISC SAO IPd 46.40
 S01R 1973 1 1 757 PH1 ISC MHC IPd 45.10 S 4.9
 S01R 1973 1 1 757 PH1 ISC BKS IPc 57.30 S 13.7
 S01R 1973 1 1 757 PH1 ISC PRI IPc 0.70 S 20.3
 S01R 1973 1 1 757 PH1 ISC JAS IPc 0.60 S 15.4
 S01R 1973 1 1 757 PH1 ISC FRI IPc 4.30 S 17.7
 S01R 1973 1 1 757 PH1 ISC EUR EP 2 3.20 SZP 0.6 0.20
 S01R 1973 1 2 245 SUM 48.60 33.6200N 117.3200W 8.0 3.1 4 U
 S01R 1973 1 2 245 PH1 ISC PLM IP 57.60 IS 5.2
 ***** 6544 data cards not shown here *****
 C#FINIS DSN=SL000063

Table SL000064

C#DSN=SL000064;SIZE=005625;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=039;STRT=000001;
 C*DATE: 19831017;99; ICALP74S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19740101;19741231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1974
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000052 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000052 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01S 1974 1 1 1828 SUM 20.37 42.0010N 126.6800W 33.0 23 4.4 U
 S01S 1974 1 1 1828 PH1 ISC FHC EPc2 56.00
 S01S 1974 1 1 1828 PH1 ISC WDC IPc 12.30
 S01S 1974 1 1 1828 PH1 ISC COR IPd 15.80
 S01S 1974 1 1 1828 PH1 ISC LON IPd 48.20
 S01S 1974 1 1 1828 PH1 ISC BMO IP 7.50
 S01S 1974 1 1 1828 PH1 ISC EUR IP 24.00 SZP 5.6 0.50
 S01S 1974 1 1 1828 PH1 ISC NEW EP 2 33.00
 S01S 1974 1 1 1828 PH1 ISC NTI EP 2 36.00
 S01S 1974 1 1 1828 PH1 ISC DUG EP 2 49.80 SZP 12.5 1.30
 ***** 5444 data cards not shown here *****
 C#FINIS DSN=SL000064

Table SL000065

C#DSN=SL000065;SIZE=009862;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=040;STRT=000001;
 C*DATE: 19831017;99; ICALP75S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19750101;19751231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1975
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000053 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000053 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01T 1975 1 1 715 SUM 25.78 40.5170N 125.3580W 3.0 3.5 6 U
 S01T 1975 1 1 715 PH1 ISC FHC IPc 47.40 S 12.6
 S01T 1975 1 1 715 PH1 ISC WDC IPc 3.20
 S01T 1975 1 1 715 PH1 ISC MIN IPd 13.20
 S01T 1975 1 1 715 PH1 ISC JAS IP 38.10
 S01T 1975 1 1 715 PH1 ISC FRI IP 52.40
 S01T 1975 1 1 715 PH1 ISC BMO EP 2 16.60 SZP 1.7 0.60
 S01T 1975 1 3 555 SUM 29.48 33.5070N 117.7170W 5.0 9 4.3 U
 S01T 1975 1 3 555 PH1 ISC RVR IP 41.50 IS 6.6
 S01T 1975 1 3 555 PH1 ISC CIS IP 43.50
 ***** 9681 data cards not shown here *****
 C#FINIS DSN=SL000065

Table SL000066

C#DSN=SL000066;SIZE=009139;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=041;STRT=000001;
 C*DATE: 19831017;99; ICALP76S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19760101;19761231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1976
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000054 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000054 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01U 1976 1 1 147 SUM 52.99 33.4720N 116.5830W 11.0
 S01U 1976 1 1 147 PH1 ISC PLM IP 0.50
 S01U 1976 1 1 147 PH1 ISC TPC IP 8.50 IS 7.5
 S01U 1976 1 1 147 PH1 ISC SND IP 10.40 ES 2 10.6
 S01U 1976 1 1 147 PH1 ISC RVR IP 9.60 IS 9.4
 S01U 1976 1 1 147 PH1 ISC MWC IP 20.00 IS 19.0
 S01U 1976 1 1 147 PH1 ISC PAS IP 21.00 IS 19.5
 S01U 1976 1 1 147 PH1 ISC GLA IP 21.00 IS 18.6
 S01U 1976 1 1 1720 SUM 10.73 33.8720N 117.9870W 8.0 27 4.1 U
 S01U 1976 1 1 1720 PH1 ISC PAS IP 18.50 IS 4.0
 ***** 8958 data cards not shown here *****
 C#FINIS DSN=SL000066

Table SL000067

C#DSN=SL000067;SIZE=007460;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=042;STRT=000001;
 C*DATE: 19831017;99; ICALP77S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19770101;19771231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1977
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000055 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000055 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01V 1977 1 1 720 SUM 51.00 40.4000N 127.2000W 2.0 3.8 10 U
 S01V 1977 1 1 720 PH1 ISC WKC EP 2 29.50 ES 2 28.0
 S01V 1977 1 1 720 PH1 ISC FHC IP 32.50 S 29.5
 S01V 1977 1 1 720 PH1 ISC MIN P 58.00
 S01V 1977 1 1 720 PH1 ISC ORV EP 2 1.00
 S01V 1977 1 1 720 PH1 ISC KPK IP 4.40
 S01V 1977 1 1 720 PH1 ISC BKS IP 2.30 S 53.7
 S01V 1977 1 1 720 PH1 ISC MHC IP 12.00
 S01V 1977 1 1 720 PH1 ISC ARN IP 13.50
 S01V 1977 1 1 720 PH1 ISC SAO IP 18.00
 ***** 7279 data cards not shown here *****
 C#FINIS DSN=SL000067

Table SL000068

C#DSN=SL000068;SIZE=009972;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=043;STRT=000001;
 C*DATE: 19831017;99; ICALP78S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19780101;19781231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1978
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000056 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000056 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01W 1978 1 2 639 SUM 18.08 40.8540N 125.3260W 32.0 4.0 21 U
 S01W 1978 1 2 639 PH1 ISC WKC IPc 34.80
 S01W 1978 1 2 639 PH1 ISC FHC IPc 36.10 S 12.9
 S01W 1978 1 2 639 PH1 ISC WDC IPc 52.00 S 23.0
 S01W 1978 1 2 639 PH1 ISC MIN IPc 2.40
 S01W 1978 1 2 639 PH1 ISC ORV IPc 6.70
 S01W 1978 1 2 639 PH1 ISC BKS IP 16.00
 S01W 1978 1 2 639 PH1 ISC MHC IP 26.30
 S01W 1978 1 2 639 PH1 ISC WCN EP 2 26.50
 S01W 1978 1 2 639 PH1 ISC ARN EP 2 27.00
 ***** 9791 data cards not shown here *****
 C#FINIS DSN=SL000068

Table SL000069

C#DSN=SL000069;SIZE=011935;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=044;STRT=000001;
 C*DATE: 19831017;99; ICALP79S;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19790101;19791231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1979
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000057 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000057 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01X 1979 1 1 219 PH1 ISC FHC IPc 15.20 S 23.8
 S01X 1979 1 1 219 PH1 ISC WDC IPc 30.60
 S01X 1979 1 1 219 PH1 ISC MIN IPc 40.80
 S01X 1979 1 1 219 PH1 ISC KPK IP 46.80
 S01X 1979 1 1 219 PH1 ISC BKS IPc 48.30 S 48.7
 S01X 1979 1 1 219 PH1 ISC MHC IPd 57.80
 S01X 1979 1 1 219 PH1 ISC ARN EP 2 58.90
 S01X 1979 1 1 219 PH1 ISC JAS IP 5.70
 S01X 1979 1 1 219 PH1 ISC WKR EP 2 21.00
 S01X 1979 1 1 219 PH1 ISC BMN EP 2 26.50 SZP 13.7 1.00
 ***** 11754 data cards not shown here *****
 C#FINIS DSN=SL000069

Table SL000070

C#DSN=SL000070;SIZE=021847;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=045;STRT=000001;
 C*DATE: 19831017;99; ICALP805;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE;
 C*PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: 19800101;19801231;30.0N;43.0N;135.0W;114.0W; ; ;
 C*KEYWD: CALIFORNIA;
 C*TITLE: STANDARDIZED VERSION OF SUMMARY AND PHASE DATA FILE OF THE
 C* INTERNATIONAL SEISMOLOGICAL CENTRE (ISC) FOR THE YEAR 1980
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY,
 C* RG13 1LX, BERKSHIRE, UNITED KINGDOM
 C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000058 FROM THE ISC
 C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER
 C* PROGRAM WRITTEN BY D. M. TOTTINGHAM. GL000058 IS A DATA
 C* SET THAT WAS EXTRACTED FROM A TAPE SENT BY RAY BULAND,
 C* U. S. GEOLOGICAL SURVEY, DENVER, IN 1983.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS TWO TYPES OF CARDS

 See previous format from dataset SL000061 for details

C*END-----
 S01Y 1980 1 1 2 9 SUM 25.11 36.2030N 120.8340W 14.0 3.2 10 U
 S01Y 1980 1 1 2 9 PH1 ISC PRI IPd 29.00
 S01Y 1980 1 1 2 9 PH1 ISC LLA IPd 34.00
 S01Y 1980 1 1 2 9 PH1 ISC PRS IPc 34.50
 S01Y 1980 1 1 2 9 PH1 ISC SAO IP 39.00
 S01Y 1980 1 1 2 9 PH1 ISC FRI IP 47.10 S 15.9
 S01Y 1980 1 1 2 9 PH1 ISC GCC IPd 48.00
 S01Y 1980 1 1 2 9 PH1 ISC MHC IP 49.20 S 16.8
 S01Y 1980 1 1 2 9 PH1 ISC JAS IPd 55.40 S 22.6
 S01Y 1980 1 1 2 9 PH1 ISC PCC IP 55.50
 ***** 21666 data cards not shown here *****
 C#FINIS DSN=SL000070

Table SL000071

C#DSN=SL000071;SIZE=009200;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=046;STRT=000001;
C\$DATE: 19831019;99; ICA71805;
C\$CLASS: EARTHQUAKE; SUMMARY;
C\$PERSN: D. M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
C\$ALPHA: 19710101; 19801231; 30.0N; 43.0N; 135.0W; 114.0W; ; ;
C\$KEYWD: CALIFORNIA;
C*TITLE: STANDARDIZED VERSION OF HYPOCENTER DATA FILE OF THE INTERNATIONAL
C* SEISMOLOGICAL CENTRE (ISC) FOR CALIFORNIA EVENTS IN THE YEARS
C* 1971 THROUGH 1980 AS REFORMATTED BY NEIS.
C*AUTHOR: D.M. TOTTINGHAM
C*INSTITUTION: INTERNATIONAL SEISMOLOGICAL CENTRE, NEWBURY RG13 1LX, BERKSHIRE,
C* UNITED KINGDOM
C*ABSTRACT: THIS DATA SET IS THE RESULT OF CONVERSION OF GL000059 FROM THE NEIS
C* FORMAT TO THE USGS STANDARDIZED FORMAT USING A COMPUTER PROGRAM
C* WRITTEN BY D. M. TOTTINGHAM. GL000059 WAS DERIVED FROM A TAPE SENT
C* BY RAY BULAND, U. S. GEOLOGICAL SURVEY, BOX 25046, M.S. 967,
C* DENVER FEDERAL CENTER, DENVER, COLORADO, ON JUNE 24, 1983.
C*REFERENCE:
C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD
C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	Space for overflow if year of the quake is B.C.
C*	06-09	(I4)	EVYEAR	4 digits for the year of the quake; If year is B.C., use "--" in column 5.
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUM'
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification day and time. Use Y for year, N for

C* month, D for day, H for hour, M
 C* for minute, and blank for second.
 C* 32-38 (F7.4) HYLAT Hypocenter latitude in degrees.
 C* 39 (A1) HYNS N for the northern hemisphere or S
 C* for the southern hemisphere.
 C* 40 (A1) blank
 C* 41-48 (F8.4) HYLON Hypocenter longitude in degrees.
 C* 49 (A1) HYEW E for the eastern hemisphere or W
 C* for the western hemisphere.
 C* 50 (A1) blank
 C* 51-55 (F5.1, HYDEP Focal depth in km; decimal places
 C* or F5.2) depends on teleseismic event (F5.1)
 C* or local quake (F5.2).
 C* 56 (A1) HYDEPC 1-character code for how focal depth
 C* is determined; A=assigned, D=re-
 C* strained by pP, H=held at fixed
 C* depth, etc.
 C* 57 (A1) blank May be used for negative magnitude.
 C* 58-60 (F3.1) ML Local magnitude.
 C* 61 (A1) MLCODE 1-character code for the type of
 C* local magnitude; R=Richter scale
 C* using Wood-Anderson seismograms
 C* was assumed for this data set, due
 C* to the institution involved and time period
 C* considered.
 C* 62 (A1) blank
 C* 63 (A1) MAXINT 1-character code for maximum inten-
 C* sity. PDE notation is used: 1 to 9
 C* for I to IX, X for X, E for XI, and
 C* T for XII.
 C* 64 (A1) blank
 C* 65-67 (I3) NUMPHA Total number of phase readings for
 C* locating the quake.
 C* 68 (A1) blank
 C* 69-71 (I3, GAP or Maximum station gap in degrees (I3)
 C* or MB for a local quake, or body-wave mag-
 C* F3.1) nitude (F3.1) for a teleseismic event.
 C* 72 (A1) blank
 C* 73-75 (I3, DMIN or Minimum station distance in km (I3)
 C* or MS for a local quake, or surface-wave
 C* F3.1) magnitude (F3.1) for a teleseismic
 C* event.
 C* 76 (A1) blank
 C* 77-79 (F3.1) RMS RMS residual in seconds (F3.1) for
 C* OR M a local quake, or any magnitude
 C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80).
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or MCODE or code for specifying M in columns
 C* 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.

C*END-----
 S01Z 1971 1 1 2036 SUM 18.40 33.9700N 119.3990W 8.0A R 3.0U
 S01Z 1971 1 2 219 SUM 13.10 35.7700N 117.5690W 8.0A R 2.8U
 S01Z 1971 1 2 237 SUM 50.30 35.8200N 117.5490W 8.0A R 3.0U
 S01Z 1971 1 2 627 SUM 37.48 35.9670N 120.8310W 8.0A R 7

S01Z	1971	1	2	759	SUM	8.00	35.7000N	117.5590W	8.0A	R		2.8U
S01Z	1971	1	2	1119	SUM	28.80	35.8500N	117.5000W	8.0A	R		3.0U
S01Z	1971	1	4	537	SUM	56.40	35.8900N	117.5190W	8.0A	R		3.0U
S01Z	1971	1	5	614	SUM	44.22	34.0400N	118.0240W	8.0A	R	9	
S01Z	1971	1	6	2253	SUM	1.00	35.0800N	118.3290W	8.0A	R		2.8U
S01Z	1971	1	7	2322	SUM	44.00	34.5800N	117.1690W	8.0A	R		2.8U

***** 9084 data cards not shown here *****

C#FINIS DSN=SL000071

Table SL000072

C#DSN=SL000072;SIZE=005016;DATE=062584;ARCH=DT;TAPE=SM9302;FILE=047;STRT=000001;
 C*DATE: 19830906; 0; NEISTATS;
 C*CLASS: EARTHQUAKE; STATION;
 C*PERSN: D.M. TOTTINGHAM; W. H. K. LEE; R. BULAND;
 C*ALPHA: ; ; 90.0 S; 90.0 N; 180.0 W; 180.0 E; ; ;
 C*KEYWD: ;
 C*TITLE: STANDARDIZED VERSION OF THE NEIS STATION MASTER FILE
 C*AUTHOR: D. M. TOTTINGHAM
 C*INSTITUTION: NATIONAL EARTHQUAKE INFORMATION SERVICE
 C* U. S. GEOLOGICAL SURVEY
 C* BOX 25046, M.S. 967
 C* DENVER FEDERAL CENTER
 C* DENVER, CO 80225
 C*ABSTRACT: THIS STATION LIST IS THE RESULT OF CONVERSION OF GL000048 FROM THE
 C* NEIS STATION FORMAT TO THE USGS STANDARDIZED FORMAT USING A
 C* A COMPUTER PROGRAM WRITTEN BY D. M. TOTTINGHAM.
 C*REFERENCE:
 C*FORMAT: THIS DATA SET CONTAINS ONE TYPE OF CARD
 C*
 C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-04	(A4)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	05	(A1)	blank	
C*	06-09	(I4)	ONYEAR	4 digits for the year the station began operation.
C*	10	(A1)	blank	
C*	11-12	(I2)	ONMON	2 digits for the month of station beginning.
C*	13-14	(I2)	ONDAY	2 digits for the day of the station beginning.
C*	15	(A1)	blank	
C*	16-17	(I2)	ONHOUR	2 digits for the hour of station beginning.
C*	18-19	(I2)	ONMIN	2 digits for the minute of the station beginning.
C*	20	(A1)	blank	
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'STA'.
C*	25	(A1)	STWT	Station weight (normally blank).
C*	26-29	(A4)	STAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)	STNAME	4-character code for the station

C* name; the last character usually
 C* denotes the component of the
 C* instrument.
 C* 34 (A1) blank May be used to denote the component
 C* of a 4-character code station.
 C* 35-41 (f7.4) STLAT Station latitude in degrees.
 C* 42 (A1) STNS N for the northern hemisphere or S
 C* for the southern hemisphere.
 C* 43 (A1) blank
 C* 44-51 (F8.4) STLON Station longitude in degrees.
 C* 52 (A1) STEW E for the eastern hemisphere or W
 C* for the western hemisphere.
 C* 53-57 (I5) STELEV Station elevation in meters.
 C* 58-59 (A2) FLAG BLANK means the following.
 C* 60-69 (A10) STRNAM Real station name.
 C* 60-64 (F5.2) STPDLY P model number for the station.
 C* 65-66 (I2) STINCL Instrument class number for the
 C* station.
 C* 67-69 (I3) STATTN Station attenuation setting in dB.
 C* 70-74 (F5.2) STDT Station clock correction in seconds.
 C* 75-80 (3I2) OFFDAT Station off date (year,month,day).

C*END-----

S020	STA -A0M	46.6886N	106.2222W	8970	Subarray A	830906
S020	STA A10	10.4611N	84.7155W	8300	Crater	
S020	STA AA-I	52.2117N	174.2036W	60	Atka	830906
S020	STA AAA	43.2717N	76.9466E	8000	Alma-Ata	
S020	STA AAB	43.2667N	77.3833E	8500	(Alternate	
S020	STA AAC	50.7833N	6.0833E	1790	Aachen	830906
S020	STA AAE	9.0292N	38.7655E	24420	Addis Abab	
S020	STA AAI	3.6667S	128.1667E	800	Ambon	
S020	STA AAM	42.2997N	83.6561W	2490	Ann Arbor	
S020	STA AAR	46.1333N	25.8950E	11010	Sfinta Ana	

***** 4930 data cards not shown here *****

C#FINIS DSN=SL000072

Table SL000073

C*DSN=SL000073;SIZE=001937;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=000001;
 C*DATE: 19850429; 0; CUSPAPR;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840401; 19840431; 32.0N; 42.0N; 126.0W; 114.0W; ; S021;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR APRIL, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.

C*REFERENCE:

C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

C*

C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-05	(A5)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*	06-07	(A2)	blank	
C*	08-09	(I2)	EVYEAR	2 digits for the year of the quake;
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVDAY	2 digits for the day of the quake.
C*	15	(A1)	blank	
C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C*	21	(A1)	DATCOD	Normally a blank. If more than 80 bytes are used for a data record, then DATCOD=k where k is the card sequence number within the data record, e.g., 1, 2, ..., 9, A, B, ..., Z, up to 35 cards. If any data record exceeds 35 cards (2800 bytes), then DATCOD=* and the last data card must be blank, except "END" in columns 22-24.
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SUC'
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1)	blank	

C* 41-48 (F8.4) HYLON Hypocenter longitude in degrees.
 C* 49 (A1) HYEW E for the eastern hemisphere or W
 C* for the western hemisphere.
 C* 50 (A1) blank
 C* 51-55 (F5.1, HYDEP Focal depth in km; decimal places
 C* or F5.2) depends on teleseismic event (F5.1)
 C* or local quake (F5.2).
 C* 56 (A1) HYDEPC 1-character code for how focal depth
 C* is determined; A=assigned, D=re-
 C* strained by pP, H=held at fixed
 C* depth, etc.
 C* 57 (A1) blank May be used for negative magnitude.
 C* 58-60 (F3.1) ML Local magnitude.
 C* 61 (A1) MLCODE 1-character code for the type of
 C* local magnitude; D=Coda duration
 C* was used for this data set.
 C* 62 (A1) blank
 C* 63 (A1) MAXINT 1-character code for maximum inten-
 C* sity. PDE notation is used: 1 to 9
 C* for I to IX, X for X, E for XI, and
 C* T for XII.
 C* 64 (A1) blank
 C* 65-67 (I3) NUMPHA Total number of phase readings for
 C* locating the quake.
 C* 68 (A1) blank
 C* 69-71 (I3, GAP or Maximum station gap in degrees (I3)
 C* or MB for a local quake, or body-wave mag-
 C* F3.1) nitude (F3.1) for a teleseismic event.
 C* 72 (A1) blank
 C* 73-75 (I3, DMIN or Minimum station distance in km (I3)
 C* or MS for a local quake, or surface-wave
 C* F3.1) magnitude (F3.1) for a teleseismic
 C* event.
 C* 76 (A1) blank
 C* 77-79 (F3.2) RMS RMS residual in seconds (F3.2) for
 C* OR M a local quake, or any magnitude
 C* (F3.1) for a teleseismic event (to be
 C* specified by MCODE in column 80).
 C* 80 (A1) HYQUAL HYP071 quality code for a local quake,
 C* or MCODE or code for specifying M in columns
 C* 77-79, e.g., U=unspecified, W=moment
 C* magnitude, etc.
 C*

C*END-----

S021	84	04	1	033	SUC	16.11	36.3538N	121.8752W	11.05A	0.8D	11	206	14	.06
S021	84	04	1	1 2	SUC	49.58	37.6304N	118.9253W	3.51A	0.6D	10	91	0	.07
S021	84	04	1	1 5	SUC	54.20	38.7953N	122.7963W	4.09A	0.9D	10	71	1	.10
S021	84	04	1	238	SUC	53.35	37.4689N	118.8374W	7.66A	2.1D	32	117	6	.11
S021	84	04	1	239	SUC	51.67	37.4680N	118.8347W	3.55A	1.1D	20	181	6	.09
S021	84	04	1	4 6	SUC	52.91	38.7843N	122.7741W	2.11A	1.4D	15	68	1	.13
S021	84	04	1	423	SUC	12.75	37.4926N	118.7206W	6.58A	0.7D	17	103	0	.10
S021	84	04	1	425	SUC	44.21	37.4757N	118.8338W	6.99A	0.8D	17	179	5	.07
S021	84	04	1	513	SUC	0.30	36.2504N	120.4081W	4.26A	1.1D	6	108	5	.17
S021	84	04	1	6 8	SUC	55.89	38.8123N	122.8066W	3.41A	0.6D	9	85	1	.07

***** 1829 data cards not shown here *****

C#FINIS DSN=SL000073

Table SL000074

C#DSN=SL000074;SIZE=001830;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=001938;
 C*DATE: 19840429; 0; CUSPMAY;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840501; 19840531; 32.0N; 42.0N; 126.0W; 114.0W; ; S022;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR MAY, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S022 84 05 1 133 SUC 4.78 36.1806N 120.3110W 2.04A 1.0D 11 142 8 .29
 S022 84 05 1 144 SUC 49.25 37.3287N 121.6588W 13.26A 0.7D 9 119 7 .13
 S022 84 05 1 148 SUC 36.36 36.7265N 121.3475W 12.75A 1.1D 18 64 1 .09
 S022 84 05 1 215 SUC 42.08 36.6908N 122.0527W 15.00A 1.4D 15 218 15 .18
 S022 84 05 1 220 SUC 2.85 37.2598N 121.6256W 7.70A 2.3D 44 31 4 .18
 S022 84 05 1 230 SUC 52.51 40.5075N 122.1993W 16.90A 2.3D 15 101 26 .18
 S022 84 05 1 234 SUC 46.58 37.6265N 118.8942W 1.70A 0.8D 7 151 0 .05
 S022 84 05 1 236 SUC 6.25 37.6198N 118.8844W 5.96A 1.9D 26 70 1 .17
 S022 84 05 1 3 4 SUC 54.37 37.6161N 118.8712W 3.27A 1.2D 8 85 0 .06
 S022 84 05 1 3 9 SUC 59.46 37.6246N 118.8831W 5.96A 1.6D 17 98 1 .13
 ***** 1722 data cards not shown here *****
 C#FINIS DSN=SL000074

Table SL000075

C#DSN=SL000075;SIZE=001625;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=003768;
 C*DATE: 19850429; 0; CUSPJUN;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840601; 19840631; 32.0N; 42.0N; 126.0W; 114.0W; ; 5023;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR JUNE, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S023 84 06 1 030 SUC 21.63 40.9564N 121.2901W 5.97A 1.9D 7 178 43 .17
 S023 84 06 1 154 SUC 8.68 37.1149N 121.5477W 5.41A 1.0D 11 86 2 .16
 S023 84 06 1 2 6 SUC 40.07 37.5620N 118.8363W 8.34A 1.4D 18 109 3 .09
 S023 84 06 1 218 SUC 57.56 38.8185N 122.7974W 3.04A 0.5D 6 194 1 .03
 S023 84 06 1 235 SUC 34.71 37.5810N 121.8130W 6.12A 0.0 6 114 5 .14
 S023 84 06 1 240 SUC 52.72 36.6961N 120.8741W 0.00A 1.1D 10 116 8 .17
 S023 84 06 1 3 5 SUC 45.47 37.6115N 118.8993W 4.20A 0.8D 8 155 1 .05
 S023 84 06 1 327 SUC 26.84 37.2912N 121.6524W 8.18A 1.3D 25 70 4 .11
 S023 84 06 1 332 SUC 4.22 34.4928N 118.5863W 32.92A 0.0 6 299 70 .77
 S023 84 06 1 356 SUC 52.88 37.2612N 121.6249W 5.42A 0.8D 11 109 4 .13
 ***** 1517 data cards not shown here *****
 C#FINIS DSN=SL000075

Table SL000076

C#DSN=SL000076;SIZE=002090;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=005393;
 C*DATE: 19850429; 0; CUSPJUL;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840701; 19840731; 32.0N; 42.0N; 126.0W; 114.0W; ; S024;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR JULY, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S024 84 07 1 136 SUC 59.76 36.5848N 121.1465W 10.48A 0.9D 14 61 3 .16
 S024 84 07 1 147 SUC 5.58 37.6060N 118.8643W 8.20A 1.2D 13 136 3 .04
 S024 84 07 1 2 4 SUC 19.11 37.3166N 121.6453W 3.57A 1.2D 19 74 6 .14
 S024 84 07 1 349 SUC 47.35 37.2357N 121.6459W 8.77A 0.5D 11 100 3 .13
 S024 84 07 1 353 SUC 59.55 37.1290N 121.5431W 9.41A 0.7D 9 111 2 .14
 S024 84 07 1 420 SUC 32.08 0.0000N 0.0000W 0.00A 0.0 0 111 2 .00
 S024 84 07 1 447 SUC 5.52 37.1783N 121.5710W 5.00A 0.8D 12 119 5 .05
 S024 84 07 1 529 SUC 33.82 37.6463N 118.9194W 6.97A 0.0 5 151 1 .00
 S024 84 07 1 725 SUC 24.25 37.2466N 121.6164W 7.07A 0.8D 16 104 5 .14
 S024 84 07 1 8 1 SUC 15.74 37.1776N 121.5683W 3.57A 1.1D 18 109 5 .14
 ***** 1982 data cards not shown here *****
 C#FINIS DSN=SL000076

Table SL000077

C#DSN=SL000077;SIZE=001424;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=007483;
 C*DATE: 19850429; 0; CUSPAUG;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840801; 19840831; 32.0N; 42.0N; 126.0W; 114.0W; ; S025;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR AUGUST, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S025 84 08 1 043 SUC 57.31 36.3284N 120.9262W 3.62A 1.0D 9 62 1 .21
 S025 84 08 1 051 SUC 37.55 36.6487N 121.1468W 15.00A 1.2D 16 72 3 .19
 S025 84 08 1 112 SUC 12.76 36.2024N 120.4025W 3.61A 2.0D 12 74 7 .18
 S025 84 08 1 128 SUC 52.60 35.9927N 120.5770W 3.63A 1.2D 9 107 7 .18
 S025 84 08 1 140 SUC 2.90 36.2328N 120.8266W 4.91A 0.7D 8 96 3 .08
 S025 84 08 1 238 SUC 25.51 37.2609N 121.6466W 8.96A 2.2D 33 54 2 .18
 S025 84 08 1 244 SUC 40.08 35.9927N 120.5792W 2.43A 2.0D 12 116 7 .20
 S025 84 08 1 3 4 SUC 46.40 36.6485N 121.1651W 12.87A 1.9D 22 54 1 .23
 S025 84 08 1 4 2 SUC 39.74 36.6503N 121.1560W 11.50A 0.7D 15 91 2 .21
 S025 84 08 1 4 6 SUC 9.28 36.1329N 118.2967W 1.75A 0.0 7 134 34 .08
 ***** 1316 data cards not shown here *****
 C#FINIS DSN=SL000077

Table SL000078

C#DSN=SL000078;SIZE=001158;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=008907;
 C*DATE: 19850429; 0; CUSPSEP;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19840901; 19840931; 32.0N; 42.0N; 126.0W; 114.0W; ; S026;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR SEPTEMBER,1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S026 84 09 1 111 SUC 54.83 37.6764N 118.7561W 10.31A 1.0D 18 163 5 .08
 S026 84 09 1 153 SUC 26.41 37.1548N 121.5842W 4.21A 0.8D 12 106 3 .18
 S026 84 09 1 3 4 SUC 45.02 36.9758N 121.6437W 3.50A 1.0D 16 43 4 .19
 S026 84 09 1 319 SUC 48.79 36.1648N 120.2682W 2.00A 1.9D 22 117 11 .20
 S026 84 09 1 448 SUC 6.86 37.2550N 121.6226W 5.31A 2.3D 46 32 4 .18
 S026 84 09 1 726 SUC 29.37 37.5211N 118.8590W 10.25A 0.7D 14 189 7 .07
 S026 84 09 1 9 5 SUC 33.73 36.5283N 121.1453W 8.78A 1.0D 17 72 4 .15
 S026 84 09 1 1055 SUC 43.34 36.5230N 121.1693W 8.65A 1.0D 14 86 3 .18
 S026 84 09 1 1210 SUC 0.98 37.5248N 118.8335W 6.79A 0.7D 22 155 7 .06
 S026 84 09 1 1225 SUC 18.49 37.8482N 122.0190W 2.92A 1.0D 16 53 5 .27

***** 1050 data cards not shown here *****

C#FINIS DSN=SL000078

Table SL000079

C#DSN=SL000079;SIZE=001136;DATE=042585;ARCH=JN;TAPE=SM9302;FILE=048;STRT=010065;
 C*DATE: 19850429; 0; CUSPOCT;
 C*CLASS: EARTHQUAKE; SUMMARY;
 C*PERSN: J. NEWBERRY;
 C*ALPHA: 19841001; 19841031; 32.0N; 42.0N; 126.0W; 114.0W; ; S027;
 C*KEYWD: SUMMARY, CALIFORNIA;
 C*TITLE: SUMMARY DATA FOR OCTOBER, 1984 FROM USGS CUSP PROCESSING SYSTEM
 C*AUTHOR: S. STEWART, J. NEWBERRY
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY
 C*ABSTRACT: THIS SUMMARY DATA WAS DERIVED FROM CUSP MEM TAPES AND TRANSLATED TO
 STANDARDIZED FORMAT BY J. NEWBERRY.
 C*REFERENCE:
 C*FORMAT: THIS FILE CONTAINS ONE TYPE OF CARD

 See previous format from dataset SL000073 for details

C*END-----
 S027 84 10 1 415 SUC 15.73 37.6180N 118.9528W 6.29A 2.2D 23 92 0 .10
 S027 84 10 1 627 SUC 40.68 37.1749N 121.5749W 4.92A 0.7D 11 116 4 .17
 S027 84 10 1 652 SUC 35.43 36.2552N 120.3758W 5.97A 1.2D 8 93 3 .21
 S027 84 10 1 741 SUC 21.79 37.2262N 121.6457W 11.04A 0.0 7 100 4 .08
 S027 84 10 1 913 SUC 37.71 37.4657N 121.8378W 0.94A 1.1D 14 70 3 .18
 S027 84 10 1 929 SUC 22.81 36.7462N 121.3631W 10.85A 0.6D 10 106 3 .09
 S027 84 10 1 1042 SUC 15.35 37.3543N 121.6768W 7.55A 0.0 10 93 7 .11
 S027 84 10 1 1051 SUC 26.59 37.0696N 121.4791W 9.06A 1.3D 23 52 4 .17
 S027 84 10 1 1328 SUC 17.06 37.3303N 121.6708W 13.66A 0.6D 11 100 8 .11
 S027 84 10 1 1414 SUC 14.74 37.2755N 121.6305W 8.27A 0.0 9 103 4 .12
 ***** 1028 data cards not shown here *****
 C#FINIS DSN=SL000079

Table SL000080

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C#DSN=SL000080;SIZE=009355;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=049;STRT=000001;
C#DATE: 19850430; 0; 840407A ;
C#CLAS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
C#PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
C#ALPHA: 19840407; 19840407; 37.447N; 37.447N; 118.630W; 118.630W; ; 3274;
C#KEYWD: CUSP; CODA Q; SPECTRA;
C#TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
C#      FOR EARTHQUAKE ON 840407 AT 01:08
C#INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
C#ICODE: GSMP;
C#ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
C#          FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
C#          MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
C#          DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
C#          SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
C#          HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
C#REFERENCE:
C#FORMAT:
C#
C# REFERENCE NOTE:
C#      THE 'REFNUM' ITEM FOR THESE DATA REFER TO THE ORIGINAL
C#      ARCHIVE ID NUMBER ASSIGNED BY THE CUSP PROCESSING SYSTEM.
C#
C#*****
C#
C# THE SUMMARY CARD APPEARS AS FOLLOWS:
C#
C#*****
C# COLUMNS  FORMAT  ITEM    EXPLANATION
C# 01-05     (A5)    REFNUM   Reference number to the data source
C#          to be supplied by the archivist.
C# 06-07     (A2)    blank
C#
C# 08-09     (I2)    EVYEAR   2 digits for the year of the quake;
C#
C# 10         (A1)    blank
C# 11-12     (I2)    EVMON    2 digits for the month of the quake.
C# 13-14     (I2)    EVDAY    2 digits for the day of the quake.
C# 15         (A1)    blank
C# 16-17     (I2)    EVHOUR   2 digits for the hour of the quake.
C# 18-19     (I2)    EVMIN    2 digits for the minute of the quake.
C# 20         (A1)    EVINDX   Event index if there are more than one
C#          quake within the same minute.
C# 21         (A1)    DATCOD   Normally a blank. If more than 80 bytes
C#          are used for a data record, then DATCOD=k
C#          where k is the card sequence number with-
C#          in the data record, e.g., 1, 2, ..., 9,
C#          A, B, ..., Z, up to 35 cards. If any
C#          data record exceeds 35 cards (2800 bytes),
C#          then DATCOD=* and the last data card must be
C#          blank, except "END" in columns 22-24.
C# 22-24     (A3)    DATKEY   3-letter code serving as a data key
C#          to the kind of data that follows,

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C*				in this case, 'SUC'
C*	25	(A1)	blank	A blank space for easy reading.
C*	26-30	(F5.2)	ORTIME	Origin time; normally the seconds portion only.
C*	31	(A1)	TMUNIT	1-character code for the time unit; For some old quakes, the ORTIME may differ from the identification date and time. Use Y for year, N for month, D for day, H for hour, M for minute, and blank for second.
C*	32-38	(F7.4)	HYLAT	Hypocenter latitude in degrees.
C*	39	(A1)	HYNS	N for the northern hemisphere or S for the southern hemisphere.
C*	40	(A1)	blank	
C*	41-43	(F8.4)	HYLON	Hypocenter longitude in degrees.
C*	49	(A1)	HYLW	E for the eastern hemisphere or W for the western hemisphere.
C*	50	(A1)	blank	
C*	51-55	(F5.1, or F5.2)	HYDEP	Focal depth in km; decimal places depends on teleseismic event (F5.1) or local quake (F5.2).
C*	56	(A1)	HYDEPC	1-character code for how focal depth is determined; A=assigned, D=restrained by pP, H=held at fixed depth, etc.
C*	57	(A1)	blank	May be used for negative magnitude.
C*	58-60	(F3.1)	ML	Local magnitude.
C*	61	(A1)	MLCODE	1-character code for the type of local magnitude; D=Coda wave duration was used for these magnitude calculations.
C*	62	(A1)	blank	
C*	63	(A1)	MAXINT	1-character code for maximum intensity. PDE notation is used: 1 to 9 for I to IX, X for X, E for XI, and T for XII.
C*	64	(A1)	blank	
C*	65-67	(I3)	NUMPHA	Total number of phase readings for locating the quake.
C*	68	(A1)	blank	
C*	69-71	(I3, or F3.1)	GAP or MB	Maximum station gap in degrees (I3) for a local quake, or body-wave magnitude (F3.1) for a teleseismic event.
C*	72	(A1)	blank	
C*	73-75	(I3, or F3.1)	DMIN or MS	Minimum station distance in km (I3) for a local quake, or surface-wave magnitude (F3.1) for a teleseismic event.
C*	76	(A1)	blank	
C*	77-79	(F3.2)	RMS OR M	RMS residual in seconds (F3.2) for a local quake, or any magnitude (F3.1) for a teleseismic event (to be specified by MCODE in column 80).
C*	80	(A1)	HYQUAL or MCODE	HYP071 quality code for a local quake, or code for specifying M in columns 77-79, e.g., U=unspecified, W=moment

```

C*                                     magnitude, etc.
C*****
C*
C* THE PHASE CARD APPEARS AS FOLLOWS:
C*
C*****
C* COLUMNS  FORMAT  ITEM    EXPLANATION
C* 01-05     (I5)    REFNUM  Reference number to the data source
C*                                     to be supplied by the archivist.
C* 06-07     (A2)    blank
C*
C* 08-09     (I2)    EVYEAR  2 digits for the year of the quake;
C*                                     If year is B.C., use "-" in column 5.
C* 10        (A1)    blank
C* 11-12     (I2)    EVMON   2 digits for the month of the quake.
C* 13-14     (I2)    EVDAY   2 digits for the day of the quake.
C* 15        (A1)    blank
C* 16-17     (I2)    EVHOUR  2 digits for the hour of the quake.
C* 18-19     (I2)    EVMIN   2 digits for the minute of the quake.
C* 20        (A1)    EVINDX  Event index if there are more than one
C*                                     quake within the same minute.
C* 21        (A1)    DATCOD  Normally a blank. If more than 80 bytes
C*                                     are used for a data record, then DATCOD=k
C*                                     where k is the card sequence number with-
C*                                     in the data record, e.g., 1, 2, ..., 9,
C*                                     A, B, ..., Z, up to 35 cards. If any
C*                                     data record exceeds 35 cards (2800 bytes),
C*                                     then DATCOD=* and the last data card must be
C*                                     blank, except "END" in columns 22-24.
C* 22-24     (A3)    DATKEY  3-letter code serving as a data key
C*                                     to the kind of data that follows,
C*                                     in this case, 'PHC'.
C* 25        (A1)    blank   A blank space for easy reading.
C* 26-29     (A4)    PHAGCY  4-character code for the agency
C*                                     operating the station. Normally a 3-
C*                                     character code plus 1 blank is used.
C* 30-33     (A4)    STNAME  4-character code for the station
C*                                     name; the last character usually
C*                                     denotes the component of the
C*                                     instrument.
C* 34        (A1)    blank   May be used to denote the component
C*                                     of a 4-character code station.
C* 35-38     (A4)    PHPRMK  4-character code for the P-phase
C*                                     remark.
C* 39        (A1)    blank
C* 40-44     (F5.2)  PHPARR  P-phase arrival time in seconds.
C* 45        (A1)    blank
C* 46-49     (A4)    PHSRMK  4-character code for the S-phase
C*                                     remark.
C* 50        (A1)    blank
C* 51-55     (F5.2)  PHSARR  S-phase arrival time in seconds.
C* 56        (A1)    blank
C* 57-60     (I4)    PHFMP   Signal duration in seconds.
C* 61        (A1)    blank
C* 62-64     (A3)    PHRMK   General remark.
C* 65        (A1)    blank

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C* 66-69      (F4.1)  AMPX      Maximum trace amplitude (peak-
C*                                     to peak) in mm.
C* 70          (A1)    blank
C* 71-74      (F4.2)  PRX      Period in seconds associated
C*                                     with the maximum trace amplitude.
C* 75-80      (F6.2)  DT      Clock correction in seconds to
C*                                     be added to the arrival times.
C*****
C*
C* THE WAVEFORM CARDS APPEAR AS FOLLOWS:
C*
C*****
C* COLUMNS  FORMAT  ITEM    EXPLANATION
C* 01-05      (I5)    REFNUM  Reference number to the data source
C*                                     to be supplied by the archivist.
C* 06-07      (A2)    blank
C*
C* 08-09      (I2)    EVYEAR  2 digits for the year of the quake;
C*                                     If year is B.C., use "-" in column 5.
C* 10         (A1)    blank
C* 11-12      (I2)    EVMON   2 digits for the month of the quake.
C* 13-14      (I2)    EVDAY   2 digits for the day of the quake.
C* 15         (A1)    blank
C* 16-17      (I2)    EVHOUR  2 digits for the hour of the quake.
C* 18-19      (I2)    EVMIN   2 digits for the minute of the quake.
C* 20         (A1)    EVINDX  Event index if there are more than one
C*                                     quake within the same minute.
C* 21         (A1)    DATCOD  Normally a blank. If more than 80 bytes
C*                                     are used for a data record, then DATCOD=k
C*                                     where k is the card sequence number with-
C*                                     in the data record, e.g., 1, 2, ..., 9,
C*                                     A, B, ..., Z, up to 35 cards. If any
C*                                     data record exceeds 35 cards (2800 bytes),
C*                                     then DATCOD=* and the last data card must be
C*                                     blank, except "END" in columns 22-24.
C* 22-24      (A3)    DATKEY  3-letter code serving as a data key
C*                                     to the kind of data that follows,
C*                                     in this case, 'WFC'.
C* 25         (A1)    blank
C* 26-29      (A4)    STAGCY  4-character code for the agency
C*                                     operating the station. Normally a 3-
C*                                     character code plus 1 blank is used.
C* 30-33      (A4)    STNAME  4-character code for the station
C*                                     name; the last character usually
C*                                     denotes the component of the
C*                                     instrument.
C* 34         (A1)    blank
C*                                     May be used to denote the component
C*                                     of a 4-character code station.
C* 35-41      (F7.4)  STLAT   Station latitude in degrees.
C* 42         (A1)    STNS    N for the northern hemisphere or S
C*                                     for the southern hemisphere.
C* 43         (A1)    blank
C* 44-51      (F8.4)  STLON   Station longitude in degrees.
C* 52         (A1)    STEW    E for the eastern hemisphere or W
C*                                     for the western hemisphere.
C* 53-57      (I5)    STELEV  Station elevation in meters.

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C* 58      (A1)    blank
C* 59-60   (I2)    DGHOUR  Hour of the digitization start time.
C* 61      (A1)    blank
C* 62-63   (I2)    DGMIN   Minute of the digitization start time.
C* 64      (A1)    blank
C* 65-69   (F5.2)  DGSEC   Second of the digitization start time.
C* 70      (A1)    blank
C* 71-73   (I3)    NUMSAM  Number of samples per second in
C*                               digitization.
C* 74      (A1)    blank
C* 75-77   (I3)    DGDUR   Duration of digitization in seconds.
C* 78      (A1)    blank
C* 79-80   (I2)    NUMIPC  Number of integers per card (or per
C*                               80 bytes) for the waveform data to
C*                               follow.
C*
C* 81-(N+1)*80      Total number of samples for the waveform data
C*                               is given by TOTSAM=NUMSAM*DGDUR. Waveform data
C*                               is given in integers, i.e., in Ik format, where
C*                               k=80/NUMIPC. If TOTSAM is divisible by NUMIPC
C*                               then the number of waveform data cards is given
C*                               by N=TOTSAM/NUMIPC; otherwise, N=TOTSAM/NUMIPC+1
C*                               with trailing blanks.
C*
C* NOTE ON WAVEFORM CARDS:
C*
C* TWO CARDS ARE USED TO DELIMIT THE DIGITAL TRACE DATA. THESE CARDS
C* ARE RECOGNIZED BY DATKEYS OF 'SRT' AND 'END' AND ARE OTHERWISE
C* IDENTICAL TO THE 'WFC' CARDS. THE 'WFC' CARDS APPEAR AT THE
C* BEGINNING OF THE DATA SET AS A GROUP BY THEMSELVES, SO IT WAS
C* JUDGED UNNECESSARY TO REPEAT THEM EXACTLY.
C*
C*****
C* THE SATURATION CARDS APPEAR AS FOLLOWS:
C*
C*****
C* COLUMNS  FORMAT  ITEM    EXPLANATION
C* 01-05      (I5)    REFNUM  Reference number to the data source
C*                               to be supplied by the archivist.
C* 06-07      (A2)    blank
C*
C* 08-09      (I2)    EVYEAR  2 digits for the year of the quake;
C*                               If year is B.C., use "-" in column 5.
C* 10         (A1)    blank
C* 11-12      (I2)    EVMON   2 digits for the month of the quake.
C* 13-14      (I2)    EVDAY   2 digits for the day of the quake.
C* 15         (A1)    blank
C* 16-17      (I2)    EVHOUR  2 digits for the hour of the quake.
C* 18-19      (I2)    EVMIN   2 digits for the minute of the quake.
C* 20         (A1)    EVINDX  Event index if there are more than one
C*                               quake within the same minute.
C*
C* 21         (A1)    blank
C* 22-24      (A3)    DATKEY  3-letter code serving as a data key
C*                               to the kind of data that follows,
C*                               in this case, 'SAT'.
C*

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C*	25	(A1)	blank	
C*	26-29	(A4)	STAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*				
C*	30-33	(A4)	STNAME	4-character code for the station name; the last character usually denotes the component of the instrument.
C*				
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.
C*	35-41	(F7.4)	STLAT	Station latitude in degrees.
C*	42	(A1)	STNS	N for the northern hemisphere or S for the southern hemisphere.
C*				
C*	43	(A1)	blank	
C*	44-51	(F8.4)	STLON	Station longitude in degrees.
C*	52	(A1)	STEW	E for the eastern hemisphere or W for the western hemisphere.
C*				
C*	53-57	(I5)	STELV	Station elevation in meters.
C*	58-63	(F6.2)	DGORIG	Seconds part of original digitization start time.
C*				
C*	64-67	(I4)	NUMSAM	Number of digital samples per second.
C*				
C*	68-70	(I3)	NUMWIN	Number of sliding windows for this digital station trace. Each window follows the previous one with a delay of 1/2(WINSIZE).
C*				
C*	71-74	(I4)	WINSIZE	Size of the windows in units of sample points.
C*				
C*	75-76	(A2)	blank	
C*	77-80	(I4)	SATLIM	Absolute value of number of digital counts used to define amplitude saturation. A value of 1300 is used for the present USGS CALNET stations.
C*				
C*	01-80	N(80I4)	NUMSAT	Number of digital samples in each window whose absolute value exceeds SATLIM. "N" is given by (NUMWIN/20)+1, with the last record being filled with blanks.
C*				
C*	*****			
C*				
C*	THE SPECTRAL ESTIMATE CARDS APPEAR AS FOLLOWS:			
C*				
C*	*****			
C*	COLUMNS	FORMAT	ITEM	EXPLANATION
C*	01-05	(I5)	REFNUM	Reference number to the data source to be supplied by the archivist.
C*				
C*	06-07	(A2)	blank	
C*				
C*	08-09	(I2)	EVYEAR	2 digits for the year of the quake; If year is B.C., use "-" in column 5.
C*				
C*	10	(A1)	blank	
C*	11-12	(I2)	EVMON	2 digits for the month of the quake.
C*	13-14	(I2)	EVIAY	2 digits for the day of the quake.
C*	15	(A1)	blank	

C*	16-17	(I2)	EVHOUR	2 digits for the hour of the quake.
C*	18-19	(I2)	EVMIN	2 digits for the minute of the quake.
C*	20	(A1)	EVINDX	Event index if there are more than one quake within the same minute.
C*	21	(A1)	blank	
C*	22-24	(A3)	DATKEY	3-letter code serving as a data key to the kind of data that follows, in this case, 'SPC'.
C*	25	(A1)	blank	
C*	26-29	(A4)	STAGCY	4-character code for the agency operating the station. Normally a 3-character code plus 1 blank is used.
C*	30-33	(A4)	STNAME	4-character code for the station name; the last character usually denotes the component of the instrument.
C*	34	(A1)	blank	May be used to denote the component of a 4-character code station.
C*	35-41	(F7.4)	STLAT	Station latitude in degrees.
C*	42	(A1)	STNS	N for the northern hemisphere or S for the southern hemisphere.
C*	43	(A1)	blank	
C*	44-51	(F8.4)	STLON	Station longitude in degrees.
C*	52	(A1)	STEW	E for the eastern hemisphere or W for the western hemisphere.
C*	53-57	(I5)	STELEV	Station elevation in meters.
C*	58-63	(F6.2)	DGORIG	Seconds part of original digitization start time.
C*	64-67	(I4)	NUMSAM	Number of digital samples per second.
C*	68-70	(I3)	NUMSPC	Number of spectral estimates.
C*	71-74	(I4)	WINSZE	Size of the windows in units of sample points.
C*	75	(A1)	blank	
C*	76-77	(I2)	LOBAND	Lower limit of the frequency band in Hz.
C*	78	(A1)	blank	
C*	79-80	(I2)	HIBAND	Upper limit of the frequency band in Hz.
C*	(NUMSPC/4) cards to follow with the following format:			
C*	4 Repeats of the following:			
C*	[(A1)	blank		
C*	(E9.3)	CWTIME	Time in seconds past the origin time of the earthquake, rounded to the nearest .1 second, of the center of the moving time window. Since only accurate to .1, this number is primarily for plotting purposes. An accurate value can be determined from the DGORIG and WINSZE parameters on the SPC card.	
C*	(E9.3)]	SPECAMP	A number representing LOG [SPECTRAL AMPLITUDE]. The spectral amplitude appears in digital counts, corrected	

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C*                                     for instrument response, with an
C*                                     assumed magnification of 100000.
C*
C*****
C*
C* THE FIT CODA Q CARDS APPEAR AS FOLLOWS:
C*
C*****
C* COLUMNS  FORMAT  ITEM    EXPLANATION
C* 01-05     (I5)    REFNUM   Reference number to the data source
C*                                     to be supplied by the archivist.
C* 06-07     (A2)    blank
C*
C* 08-09     (I2)    EVYEAR   2 digits for the year of the quake;
C*                                     If year is B.C., use "-" in column 5.
C* 10        (A1)    blank
C* 11-12     (I2)    EVMON    2 digits for the month of the quake.
C* 13-14     (I2)    EVDAY    2 digits for the day of the quake.
C* 15        (A1)    blank
C* 16-17     (I2)    EVHOUR   2 digits for the hour of the quake.
C* 18-19     (I2)    EVMIN    2 digits for the minute of the quake.
C* 20        (A1)    EVINDX   Event index if there are more than one
C*                                     quake within the same minute.
C*
C* 21        (A1)    blank
C* 22-24     (A3)    DATKEY   3-letter code serving as a data key
C*                                     to the kind of data that follows,
C*                                     in this case, 'QCA'.
C*
C* 25        (A1)    blank
C* 26-29     (A4)    STAGCY   4-character code for the agency
C*                                     operating the station. Normally a 3-
C*                                     character code plus 1 blank is used.
C*
C* 30-33     (A4)    STNAME   4-character code for the station
C*                                     name; the last character usually
C*                                     denotes the component of the
C*                                     instrument.
C*
C* 34        (A1)    blank    May be used to denote the component
C*                                     of a 4-character code station.
C*
C* 35-41     (F7.4)   STLAT    Station latitude in degrees.
C* 42        (A1)    STNS     N for the northern hemisphere or S
C*                                     for the southern hemisphere.
C*
C* 43        (A1)    blank
C* 44-51     (F8.4)   STLON    Station longitude in degrees.
C* 52        (A1)    STEW     E for the eastern hemisphere or W
C*                                     for the western hemisphere.
C*
C* 53-57     (I5)    STELEV   Station elevation in meters.
C* 58        (A1)    blank
C* 59-63     (F5.2)   LOCODA   Beginning time of coda time
C*                                     window in seconds past origin.
C*
C* 64        (A1)    blank
C* 65-69     (F5.2)   HICODA   Ending time of coda time
C*                                     window in seconds past origin.
C*
C* 70        (A1)    blank
C* 71-73     (I3)    NUMSAM   Number of samples per second.
C* 74-77     (I4)    WINSIZE  Size of the windows in samples.
C*
C* FIVE CODA FIT DATA CARDS APPEAR AS FOLLOWS:

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C* 01      (A1)    blank
C* 02-10   (F9.6)  BANDCF  Center frequency of the band
C*                                     being considered in Hz.
C* 11      (A1)    blank
C* 12-20   (F9.6)  QINV    1/Q
C* 21      (A1)    blank
C* 22-30   (F9.6)  QERR    Error of 1/Q
C* 31      (A1)    blank
C* 32-40   (F9.6)  YINT    Y-intercept of fit code line.
C* 41      (A1)    blank
C* 42-50   (F9.6)  ERRINT  Error in the Y-intercept.
C* 51      (A1)    blank
C* 52-60   (F9.6)  FITRMS  RMS value of the fit.
C* 61      (A1)    blank
C* 62-70   (F9.6)  CC      Correlation coefficient
C* 72      (A1)    blank
C* 73-75   (I3)    NPTS    Number of data points used
C*                                     to fit straight line.
C*****
C*
C* THE STATION DISTANCE-AZIMUTH CARDS APPEAR AS FOLLOWS:
C*
C*****
C* COLUMNS  FORMAT  ITEM    EXPLANATION
C* 01-05    (I5)    REFNUM  Reference number to the data source
C*                                     to be supplied by the archivist.
C* 06-07    (A2)    blank
C*
C* 08-09    (I2)    EVYEAR  2 digits for the year of the quake;
C*                                     If year is B.C., use "-" in column 5.
C* 10       (A1)    blank
C* 11-12    (I2)    EVMON   2 digits for the month of the quake.
C* 13-14    (I2)    EVDAY   2 digits for the day of the quake.
C* 15       (A1)    blank
C* 16-17    (I2)    EVHOUR  2 digits for the hour of the quake.
C* 18-19    (I2)    EVMIN   2 digits for the minute of the quake.
C* 20       (A1)    EVINDX  Event index if there are more than one
C*                                     quake within the same minute.
C* 21       (A1)    blank
C* 22-24    (A3)    DATKEY  3-letter code serving as a data key
C*                                     to the kind of data that follows,
C*                                     in this case, 'STD'.
C* 25       (A1)    blank
C* 26-28    (I3)    NUMSTN  Number of station cards to follow.
C*
C* THE STATION DISTANCE-AZIMUTH DATA CARDS HAVE THE FOLLOWING FORMAT:
C*
C* 01      (A1)    blank
C* 02-05   (A4)    STNAME  Station code.
C* 06      (A1)    blank
C* 07-13   (F7.4)  STLAT   Station latitude in decimal degrees.
C* 14      (A1)    STNS    N for the northern hemisphere or S
C*                                     for the southern hemisphere.
C* 15      (A1)    blank
C* 16-23   (F8.4)  STLON   Station longitude in degrees.
C* 24      (A1)    STEW    E for the eastern hemisphere or

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C* W for the western hemisphere.

C* 25 (A1) blank

C* 26-30 (I5) STELEV Station elevation in meters.

C* 31 (A1) blank

C* 32-41 (F10.4) DELTA Station distance in kilometers.

C* 42-44 (A3) blank

C* 45-52 (F8.4) PHI Station azimuth in degrees from north.

C* 53-54 (A2) blank

C* 55-60 (I6) SLINE Line number of the start of the digital trace in the original data set.

C* 61 (A1) blank

C* 62-67 (I6) ELINE Line number of the end of the digital trace in the original data set.

C*

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	0.9054	240.7570	1425	1897
CSCHR	37.3658N	118.6870W	2365	11.0525	215.1181	7018	7483
CRCCR	37.4877N	118.7217W	2804	11.1467	293.5181	10896	11219
CCASR	37.5748N	118.5515W	2107	16.5668	31.7947	2622	2989
CORCR	37.6353N	118.6560W	2301	20.9729	352.0337	6461	7017
CCLK	37.5902N	118.8242W	2630	26.7785	306.1143	1898	2245
CCLKR	37.5902N	118.8242W	2630	26.7785	306.1143	3437	3993
CRSM	37.5107N	118.8822W	3680	28.9485	283.9761	7898	8454
CBENR	37.7155N	118.5733W	2463	30.2994	12.0017	3994	4302
CDOE	37.6387N	118.8355W	2220	31.1625	312.7339	8891	9337
CCVM	37.6098N	118.8733W	2260	32.5057	303.5215	11777	12223
CCSR	37.6777N	118.8183W	2122	32.9859	320.5161	12224	12632
CLLK	37.5788N	118.9050W	3030	33.8970	295.3687	2990	3436
CGRP	37.6265N	118.9013W	2208	36.1241	303.2319	14328	14771
CLCCR	37.6105N	118.9158W	2550	36.5817	299.5273	9895	10338
CLCC	37.6105N	118.9158W	2550	36.5817	299.5273	4741	5184
CMDW	37.6313N	118.9162W	2350	37.8050	302.5286	13526	13892
CCHS	37.6550N	118.9045W	2420	38.2258	306.8940	13190	13525
CYMC	37.6255N	118.9362W	2340	39.3764	299.9985	14772	15212
CCSW	37.6442N	118.9282W	2280	39.7015	303.2258	15213	15568
CBNY	37.6408N	118.9358W	2325	40.2106	302.1167	15569	16125
CSHLR	37.6167N	118.9550W	2530	40.7462	297.3406	9338	9894
CSHL	37.6167N	118.9550W	2530	40.7462	297.3406	7484	7897
CMGNR	37.8133N	118.6955W	2472	41.1017	349.7659	5617	6173
CEMH	37.6663N	118.9392W	2495	42.0862	305.0979	4303	4740
CMLK	37.6643N	118.9750W	2670	45.2888	301.9673	8455	8890
CLMC	37.7288N	118.9465W	2540	47.0109	311.4309	5185	5616
CMMP	37.6100N	119.0280W	2870	47.8274	292.0735	13893	14327
CSKI	37.6530N	119.0238W	2660	49.3931	297.3958	12633	13189
CDMP	37.7080N	119.0458W	2550	54.5319	301.8879	11220	11776
CLULR	38.0523N	119.1803W	2243	90.7001	317.5034	10339	10895
CMMCR	38.3608N	119.1283W	2548	115.2612	331.2209	6174	6460
CMNP	37.4150N	119.7283W	1000	122.3583	268.3157	2246	2621
CWWVB	0.0000	0.0000	0	13840.8477	107.4094	311	867
CIRGI	0.0000	0.0000	0	13840.8477	107.4094	868	1424

C*

C* ORIGINAL WAVEFORM CARDS

C3274	84	04	7	1	8	WFC USGSWWVB		1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC USGSIRGI		1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC USGSWMDR	37.4435N 118.6370W 1683	1	8	7.55	100	75	16
C3274	84	04	7	1	8	WFC USGSClk	37.5902N 118.8242W 2630	1	8	10.97	100	55	16

C3274	84	04	7	1	8	WFC	USGSMNP	37.4150N	119.7283W	1000	1	8	23.15	100	59	16
C3274	84	04	7	1	8	WFC	USGSCASR	37.5748N	118.5515W	2107	1	8	9.69	100	58	16
C3274	84	04	7	1	8	WFC	USGSLLK	37.5788N	118.9050W	3030	1	8	11.81	100	71	16
C3274	84	04	7	1	8	WFC	USGSCLKR	37.5902N	118.8242W	2630	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSBENR	37.7155N	118.5733W	2463	1	8	12.11	100	49	16
C3274	84	04	7	1	8	WFC	USGSEMH	37.6663N	118.9392W	2495	1	8	13.21	100	69	16
C3274	84	04	7	1	8	WFC	USGSLCC	37.6105N	118.9158W	2550	1	8	12.27	100	70	16
C3274	84	04	7	1	8	WFC	USGSLMC	37.7288N	118.9465W	2540	1	8	14.11	100	68	16
C3274	84	04	7	1	8	WFC	USGSMGMR	37.8133N	118.6955W	2472	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSMCCR	38.3608N	119.1283W	2548	1	8	24.85	100	45	16
C3274	84	04	7	1	8	WFC	USGSORCR	37.6353N	118.6560W	2301	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSSCHR	37.3658N	118.6870W	2365	1	8	8.79	100	74	16
C3274	84	04	7	1	8	WFC	USGSSHL	37.6167N	118.9550W	2530	1	8	12.83	100	65	16
C3274	84	04	7	1	8	WFC	USGSRSM	37.5107N	118.8822W	3680	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSMLK	37.6643N	118.9750W	2670	1	8	13.59	100	69	16
C3274	84	04	7	1	8	WFC	USGSDOE	37.6387N	118.8355W	2220	1	8	11.75	100	71	16
C3274	84	04	7	1	8	WFC	USGSSHLR	37.6167N	118.9550W	2530	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSLCCR	37.6105N	118.9158W	2550	1	8	12.27	100	70	16
C3274	84	04	7	1	8	WFC	USGSLULR	38.0523N	119.1803W	2243	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSRCCR	37.4877N	118.7217W	2804	1	8	8.59	100	51	16
C3274	84	04	7	1	8	WFC	USGSDMP	37.7080N	119.0458W	2550	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSCVM	37.6098N	118.8733W	2260	1	8	11.77	100	71	16
C3274	84	04	7	1	8	WFC	USGSCSR	37.6777N	118.8183W	2122	1	8	12.17	100	65	16
C3274	84	04	7	1	8	WFC	USGSSKI	37.6530N	119.0238W	2660	1	7	54.10	100	88	16
C3274	84	04	7	1	8	WFC	USGSCHS	37.6550N	118.9045W	2420	1	8	12.67	100	53	16
C3274	84	04	7	1	8	WFC	USGSMDW	37.6313N	118.9162W	2350	1	8	12.51	100	58	16
C3274	84	04	7	1	8	WFC	USGSMMP	37.6100N	119.0280W	2870	1	8	13.71	100	69	16
C3274	84	04	7	1	8	WFC	USGSGRP	37.6265N	118.9013W	2208	1	8	12.29	100	70	16
C3274	84	04	7	1	8	WFC	USGSYMC	37.6255N	118.9362W	2340	1	8	12.69	100	70	16
C3274	84	04	7	1	8	WFC	USGSCSW	37.6442N	118.9282W	2280	1	8	12.81	100	56	16
C3274	84	04	7	1	8	WFC	USGSBNY	37.6408N	118.9358W	2325	1	7	54.10	100	88	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

	LINES	
ITEM	START	END
PHC	634	656
STA	657	681
SAT	682	748
SPC	749	1668
CQ1	1669	1686
CQ2	1687	1728
CQ3	1729	1770
WFC	1771	1794

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

	LINES	
STATION	START	END
WMDR	1795	2109
SCHR	2110	2424
RCCR	2425	2739
CASR	2740	3054
ORCR	3055	3369

C*	CLK	3370	3684
C*	RSM	3685	3999
C*	BENR	4000	4314
C*	DOE	4315	4629
C*	CVM	4630	4944
C*	CSR	4945	5259
C*	LLK	5260	5574
C*	GRP	5575	5889
C*	LCC	5890	6204
C*	MDW	6205	6519
C*	CHS	6520	6834
C*	YMC	6835	7149
C*	CSW	7150	7464
C*	SHL	7465	7779
C*	MGNR	7780	8094
C*	EMH	8095	8409
C*	MLK	8410	8724
C*	LMC	8725	9039
C*	MMP	9040	9354

C*END-----

3274	84	04	7	1	8	SUC	16.35	37.4475N	118.6299W	5.36A	1.8D	23	183	0	.11
3274	84	04	7	1	8	PHC	USGSWMDR	IPU0	17.50						
3274	84	04	7	1	8	PHC	USGSCLK	IPD1	20.93						
3274	84	04	7	1	8	PHC	USGSMNP	IPU0	32.92						
3274	84	04	7	1	8	PHC	USGSCASR	IPD0	19.80						
3274	84	04	7	1	8	PHC	USGSLLK	EPD1	21.65						
3274	84	04	7	1	8	PHC	USGSCLKR	IPD0	20.97						
3274	84	04	7	1	8	PHC	USGSBENR	IPU0	21.91						
3274	84	04	7	1	8	PHC	USGSEMH	EPD2	23.27						
3274	84	04	7	1	8	PHC	USGSMGMR	IPD0	24.04						

***** 8711 data cards not shown here *****

C#FINIS DSN=SL000080

Table SL000081

C*DSN=SL000081;SIZE=024374;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=050;STRT=000001;
 C*DATE: 19850430; 0; 840410A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840410; 19840410; 37.550N; 37.550N; 118.826W; 118.826W; ; 3433;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840410 AT 07:19
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCLK	37.5902N	118.8242W	2630	4.4154	2.0283	23823	24701
CCLKR	37.5902N	118.8242W	2630	4.4154	2.0283	74198	75076
CRSM	37.5107N	118.8822W	3680	7.6733	235.1989	82431	83309
CCVM	37.6098N	118.8733W	2260	8.4561	321.0991	96271	97149
CLLK	37.5788N	118.9050W	3030	9.3838	289.6282	73419	74197
CDOE	37.6387N	118.8355W	2220	9.8381	353.5759	85068	85946
CGRP	37.6265N	118.9013W	2208	11.9175	314.9976	102092	102970
CLCCR	37.6105N	118.9158W	2550	12.0482	303.5488	89463	90341
CLCC	37.6105N	118.9158W	2550	12.0482	303.5488	76604	77379
CRCCR	37.4877N	118.7217W	2804	13.4821	120.8962	90342	91116
CMDW	37.6313N	118.9162W	2350	13.4892	311.6128	100446	101324
CCSR	37.6777N	118.8183W	2122	14.1121	3.3052	97150	98028
CCHS	37.6550N	118.9045W	2420	14.5321	322.8191	98794	99566
CYMC	37.6255N	118.9362W	2340	14.8581	304.0391	102971	103743
CCSW	37.6442N	118.9282W	2280	15.4365	312.2739	103744	104515
CBNY	37.6408N	118.9358W	2325	15.8321	309.2053	104516	105287
CSHLN	37.6167N	118.9550W	2530	16.1689	297.0115	99567	100445
CSHLR	37.6167N	118.9550W	2530	16.1689	297.0115	88584	89462
CSHL	37.6167N	118.9550W	2530	16.1689	297.0115	81658	82430
CTAC	37.6317N	118.9650W	2398	17.9397	300.1184	83310	84188
CEMH	37.6663N	118.9392W	2495	18.0129	315.4124	75834	76603
CMLK	37.6643N	118.9750W	2670	20.8701	307.1631	84189	85067
CORCR	37.6353N	118.6560W	2301	21.0916	63.5330	80017	80895
CMMP	37.6100N	119.0280W	2870	23.4793	286.3328	101325	102091
CLMC	37.7288N	118.9465W	2540	23.8902	325.7124	77380	78258
CWMDR	37.4435N	118.6370W	1683	24.0943	119.3594	23058	23822
CSKI	37.6530N	119.0238W	2660	24.8157	297.2363	98029	98793
CSCHR	37.3658N	118.6870W	2365	25.5890	142.9058	80896	81657
CDMP	37.7080N	119.0458W	2550	30.0828	305.4258	95512	96270

CCASR	37.5748N	118.5515W	2107	30.6363	84.9248	72658	73418
CMGNR	37.8133N	118.6955W	2472	32.4872	26.4773	78259	79137
CBENR	37.7155N	118.5733W	2463	33.5052	56.9607	75077	75833
CMMCR	38.3608N	119.1283W	2548	95.7986	339.4016	79138	80016
CMNPN	37.4150N	119.7283W	1000	101.6136	261.5298	66700	67578
CFRI	36.9917N	119.7083W	119	116.1674	237.8185	71974	72657
CMAT	37.8733N	119.8667W	1353	121.2747	287.1274	63378	64062
CMHD	37.1235N	119.8923W	180	127.8486	248.3106	21501	22178
CMYL	37.3780N	120.4197W	84	178.5096	263.8706	22179	23057
CMST	37.9045N	120.4048W	366	180.1088	282.5591	69337	70215
CMCH	38.0187N	120.5095W	475	194.4835	285.4456	64063	64941
CMOY	37.9000N	120.5673W	176	197.7076	281.2781	67579	68457
CPWM	36.4328N	120.2110W	72	198.1211	231.2194	91996	92874
CWKT	35.7940N	118.4425W	890	200.2595	167.6729	86826	87704
CPHB	36.2488N	120.0827W	100	201.4409	224.1004	92875	93753
CWCH	35.8830N	118.0747W	2475	203.6849	155.7095	85947	86825
CMRF	38.2453N	120.5207W	799	203.7834	292.1631	68458	69336
CMCU	37.9727N	120.6170W	336	204.8209	283.1816	64942	65820
CPDR	36.3357N	120.3687W	488	218.6586	231.8932	93754	94632
CPKE	36.0615N	120.1090W	288	218.9300	220.8381	94633	95511
CWOF	35.5357N	118.7125W	1341	225.0120	176.7827	87705	88583
CMNH	38.1458N	120.8137W	219	230.9257	286.5703	65821	66699
CBMS	36.6630N	120.7918W	811	240.1996	245.8117	8316	9194
CHSL	37.0193N	121.0855W	520	258.4912	256.8496	43161	44039
CBAVV	36.6458N	121.0298W	604	265.3420	247.7820	9195	10073
CHCP	37.1945N	121.1847W	513	265.6443	261.4746	29097	29975
CBBG	36.5783N	121.0385W	1097	269.1895	246.3796	7437	8315
CBEM	36.6613N	121.0960W	488	271.5479	248.7074	15348	16226
CBRV	36.4248N	121.0183W	541	274.5459	242.9196	4800	5678
CBBN	36.5100N	121.0755W	448	276.0969	245.2764	6558	7436
CHQRV	36.8337N	121.2127W	536	277.5549	253.3722	10953	11831
CBEH	36.6647N	121.1742W	342	279.5505	249.4283	16227	17105
CBVL	36.5752N	121.1890W	510	284.7693	247.6684	11832	12710
CHLT	36.8845N	121.3082W	183	286.2383	255.0638	38766	39644
CBHR	36.7278N	121.2638W	213	286.5828	251.4432	20622	21500
CBPI	36.4900N	121.1735W	329	286.9705	245.7848	5679	6557
CHJS	36.8165N	121.2987W	215	287.2903	253.5540	37008	37886
CBLR	36.6660N	121.2727W	232	289.8047	250.2176	17106	17984
CHFE	36.9833N	121.4015W	323	293.7168	257.6536	31734	32612
CBSL	36.7755N	121.3493W	155	294.0178	253.0136	17985	18863
CBCG	36.7092N	121.3433W	305	295.6499	251.6098	19743	20621
CBJO	36.6108N	121.3135W	1052	296.2183	249.3974	12711	13589
CHGS	37.0958N	121.4472W	778	296.2791	260.2209	34371	35249
CHPH	36.8563N	121.4062W	122	297.6069	255.0229	40524	41402
CHKR	36.9017N	121.4260W	66	298.4646	256.0671	37887	38765
CBSGV	36.4138N	121.2537W	192	298.6726	245.0024	3921	4799
CBVY	36.7493N	121.4133W	585	301.7002	252.8804	18864	19742
CHCA	37.0253N	121.4837W	332	301.7192	258.8894	26460	27338
CHSP	37.1152N	121.5157W	850	303.4438	260.8660	44040	44918
CHFH	36.8882N	121.4688W	101	303.4590	256.0093	32613	33491
CHOR	36.9172N	121.5077W	98	306.9028	256.7881	39645	40523
CBJC	36.5470N	121.3922W	207	306.9783	248.7327	14469	15347
CHSF	36.8120N	121.4995W	340	308.9453	254.6397	42282	43160
CHFP	36.7537N	121.4905W	705	309.7891	253.4350	33492	34370
CHBT	36.8502N	121.5507W	98	313.3555	255.6642	25581	26459
CHCR	36.9577N	121.5835W	241	314.1414	257.9380	29976	30854

CBSRV	36.6665N	121.5187W	395	315.7200	251.9112	10074	10952
CHAZ	36.8847N	121.5908W	122	316.7566	256.5354	24702	25580
CHJG	36.7980N	121.5738W	171	317.3477	254.7650	36129	37007
CHGW	37.0170N	121.6503W	133	320.1191	259.3677	35250	36128
CJCB	37.1118N	121.6888W	192	322.5496	261.3433	47556	48434
CHCB	36.9313N	121.6605W	219	323.1555	257.7480	27339	28217
CBPP	36.1687N	121.3780W	1591	323.4785	241.6464	2163	3041
CHDL	36.8353N	121.6440W	204	323.8435	255.8358	30855	31733
CHPR	36.9532N	121.6950W	94	326.4016	258.3079	41403	42281
CCVA	37.6183N	121.7582W	201	326.5620	271.3196	91117	91995
CJRR	37.0545N	121.7268W	408	327.7610	260.3569	55467	56345
CHCO	36.8885N	121.7057W	129	329.1223	257.1257	28218	29096
CBHS	36.3558N	121.5398W	646	330.4338	246.3235	3042	3920
CBPC	36.5720N	121.6260W	183	330.4604	250.8218	13590	14468
CJST	37.2068N	121.7973W	149	333.1023	263.4463	60741	61619
CJEC	37.0507N	121.8093W	438	336.8926	260.5481	48435	49313
CJHL	37.1093N	121.8325W	908	338.4214	261.7048	49314	50192
CJBZ	37.0178N	121.8192W	213	338.6106	259.9700	46677	47555
CJPL	36.9770N	121.8322W	158	340.8684	259.2632	51951	52829
CJTG	37.0285N	121.8763W	253	344.6694	260.3481	61620	62498
CBPR	36.4070N	121.7295W	741	347.7537	248.5848	105288	106166
CJSS	37.1695N	121.9307W	946	348.3533	263.0498	59862	60740
CJLX	37.2018N	121.9862W	244	354.0710	263.7456	51072	51950
CJRG	37.0370N	121.9643W	213	354.1797	260.7644	54588	55466
CORA	39.4688N	121.4133W	585	358.8296	306.4644	70216	71094
CJBC	37.1603N	122.0262W	660	359.0378	263.0937	44919	45797
CJSG	37.2827N	122.0500W	198	360.2590	265.2852	57225	58103
CJUC	37.0012N	122.0485W	177	364.0977	260.3845	62499	63377
CJSJ	37.3338N	122.0913W	122	364.4099	266.2310	58104	58982
CJSC	37.2845N	122.1237W	357	368.4219	265.4209	56346	57224
CJBM	37.3182N	122.1527W	820	371.3525	266.0347	45798	46676
CJSM	37.2123N	122.1677W	262	374.0454	264.2600	58983	59861
CJLT	37.3537N	122.2042W	270	376.8147	266.6909	50193	51071
CJPP	37.2635N	122.2130W	186	378.5293	265.1904	52830	53708
CJPS	37.1990N	122.3483W	84	394.2095	264.3396	53709	54587
CSRT	0.0000	0.0000	0	13864.4766	107.4263	71095	71973
CWVVB	0.0000	0.0000	0	13864.4766	107.4263	405	1283
CIRGI	0.0000	0.0000	0	13864.4766	107.4263	1284	2162

C*

C* ORIGINAL WAVEFORM CARDS

C3433	84	0410	719	WFC	USGSWVVB		7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSIRGI		7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBPP	36.1687N 121.3780W 1591	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBHS	36.3558N 121.5398W 646	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBSGV	36.4138N 121.2537W 192	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBRV	36.4248N 121.0183W 541	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBPI	36.4900N 121.1735W 329	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBBN	36.5100N 121.0755W 448	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBBG	36.5783N 121.0385W 1097	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBMS	36.6630N 120.7918W 811	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBAVV	36.6458N 121.0298W 604	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBSRV	36.6665N 121.5187W 395	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHQRV	36.8337N 121.2127W 536	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBVL	36.5752N 121.1890W 510	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBJO	36.6108N 121.3135W 1052	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBPC	36.5720N 121.6260W 183	7	19	5.74	100	140	16

C3433	84	0410	719	WFC	USGSBJC	36.5470N	121.3922W	207	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBEM	36.6613N	121.0962W	488	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBEH	36.6647N	121.1742W	342	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBLR	36.6660N	121.2727W	232	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBSL	36.7755N	121.3493W	155	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBVY	36.7493N	121.4133W	585	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBCG	36.7092N	121.3433W	305	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBHR	36.7278N	121.2638W	213	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMHD	37.1235N	119.8923W	180	7	19	37.90	100	108	16
C3433	84	0410	719	WFC	USGSMYL	37.3780N	120.4197W	84	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSWMDR	37.4435N	118.6370W	1683	7	19	23.96	100	122	16
C3433	84	0410	719	WFC	USGSCLK	37.5902N	118.8242W	2630	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHAZ	36.8847N	121.5908W	122	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHBT	36.8502N	121.5507W	98	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHCA	37.0253N	121.4837W	332	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHCB	36.9313N	121.6605W	219	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHCO	36.8885N	121.7057W	129	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHCP	37.1945N	121.1847W	513	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHCR	36.9577N	121.5835W	241	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHDL	36.8353N	121.6440W	204	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHFE	36.9833N	121.4015W	323	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHFH	36.8882N	121.4688W	101	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHFP	36.7537N	121.4905W	705	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHGS	37.0958N	121.4472W	778	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHGW	37.0170N	121.6503W	133	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHJG	36.7980N	121.5738W	171	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHJS	36.8165N	121.2987W	215	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHKR	36.9017N	121.4260W	66	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHLT	36.8845N	121.3082W	183	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHOR	36.9172N	121.5077W	98	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHPH	36.8563N	121.4062W	122	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHPR	36.9532N	121.6950W	94	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHSF	36.8120N	121.4995W	340	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHSL	37.0193N	121.0855W	520	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSHSP	37.1152N	121.5157W	850	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJBC	37.1603N	122.0262W	660	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJBM	37.3182N	122.1527W	820	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJBZ	37.0178N	121.8192W	213	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJCB	37.1118N	121.6888W	192	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJEC	37.0507N	121.8093W	438	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJHL	37.1093N	121.8325W	908	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJLT	37.3537N	122.2042W	270	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJLX	37.2018N	121.9862W	244	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJPL	36.9770N	121.8322W	158	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJPP	37.2635N	122.2130W	186	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJPS	37.1990N	122.3483W	84	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJRG	37.0370N	121.9643W	213	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJRR	37.0545N	121.7268W	408	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJSC	37.2845N	122.1237W	357	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJSG	37.2827N	122.0500W	198	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJSJ	37.3338N	122.0913W	122	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJSM	37.2123N	122.1677W	262	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJSS	37.1695N	121.9307W	946	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJST	37.2068N	121.7973W	149	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJTG	37.0285N	121.8763W	253	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSJUC	37.0012N	122.0485W	177	7	19	5.74	100	140	16

C3433	84	0410	719	WFC	USGSMAT	37.8733N	119.8667W	1353	7	19	36.84	100	109	16
C3433	84	0410	719	WFC	USGSMCH	38.0187N	120.5095W	475	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMCU	37.9727N	120.6170W	336	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMNH	38.1458N	120.8137W	219	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMNPN	37.4150N	119.7283W	1000	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMOY	37.9000N	120.5673W	176	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMRF	38.2453N	120.5207W	799	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMST	37.9045N	120.4048W	366	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSORA	39.4688N	121.4133W	585	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSSRT				7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSFRI	36.9917N	119.7083W	119	7	19	37.04	100	109	16
C3433	84	0410	719	WFC	USGSCASR	37.5748N	118.5515W	2107	7	19	24.63	100	121	16
C3433	84	0410	719	WFC	USGSLLK	37.5788N	118.9050W	3030	7	19	21.84	100	124	16
C3433	84	0410	719	WFC	USGSCLKR	37.5902N	118.8242W	2630	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSBENR	37.7155N	118.5733W	2463	7	19	25.38	100	120	16
C3433	84	0410	719	WFC	USGSEMH	37.6663N	118.9392W	2495	7	19	23.27	100	122	16
C3433	84	0410	719	WFC	USGSLCC	37.6105N	118.9158W	2550	7	19	22.28	100	123	16
C3433	84	0410	719	WFC	USGSLMC	37.7288N	118.9465W	2540	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMGMR	37.8133N	118.6955W	2472	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMPCR	38.3608N	119.1283W	2548	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSORCR	37.6353N	118.6560W	2301	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSSCHR	37.3658N	118.6870W	2365	7	19	24.54	100	121	16
C3433	84	0410	719	WFC	USGSSHL	37.6167N	118.9550W	2530	7	19	22.81	100	123	16
C3433	84	0410	719	WFC	USGSRSM	37.5107N	118.8822W	3680	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSTAC	37.6317N	118.9650W	2398	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMK	37.6643N	118.9750W	2670	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSDOE	37.6387N	118.8355W	2220	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSWCH	35.8830N	118.0747W	2475	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSWKT	35.7940N	118.4425W	890	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSWOF	35.5357N	118.7125W	1341	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSSHLR	37.6167N	118.9550W	2530	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSLCCR	37.6105N	118.9158W	2550	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSRCCR	37.4877N	118.7217W	2804	7	19	22.48	100	123	16
C3433	84	0410	719	WFC	USGSCVA	37.6183N	121.7582W	201	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSPWM	36.4328N	120.2110W	72	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSPHB	36.2488N	120.0827W	100	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSPDR	36.3357N	120.3687W	488	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSPKE	36.0615N	120.1090W	288	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSDMP	37.7080N	119.0458W	2550	7	19	24.93	100	121	16
C3433	84	0410	719	WFC	USGSCVM	37.6098N	118.8733W	2260	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSCSR	37.6777N	118.8183W	2122	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSSKI	37.6530N	119.0238W	2660	7	19	24.04	100	122	16
C3433	84	0410	719	WFC	USGSCHS	37.6550N	118.9045W	2420	7	19	22.80	100	123	16
C3433	84	0410	719	WFC	USGSSHLN	37.6167N	118.9550W	2530	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMDW	37.6313N	118.9162W	2350	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSMMP	37.6100N	119.0280W	2870	7	19	23.73	100	122	16
C3433	84	0410	719	WFC	USGSGRP	37.6265N	118.9013W	2208	7	19	5.74	100	140	16
C3433	84	0410	719	WFC	USGSYMC	37.6255N	118.9362W	2340	7	19	22.69	100	123	16
C3433	84	0410	719	WFC	USGSCSW	37.6442N	118.9282W	2280	7	19	22.85	100	123	16
C3433	84	0410	719	WFC	USGSBNY	37.6408N	118.9358W	2325	7	19	22.88	100	123	16
C3433	84	0410	719	WFC	USGSBPR	36.4070N	121.7295W	741	7	19	5.74	100	140	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*

C*

LINES

START

END

ITEM

C*
 C* PHC 813 841
 C* STA 842 869
 C* SAT 870 977
 C* SPC 978 2842
 C* CQ1 2843 2890
 C* CQ2 2891 3022
 C* CQ3 3023 3178
 C* WFC 3179 3205

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	CLKR	3206	3989
C*	CVM	3990	4773
C*	LLK	4774	5557
C*	DOE	5558	6341
C*	GRP	6342	7125
C*	LCC	7126	7909
C*	RCCR	7910	8693
C*	MDW	8694	9477
C*	CSR	9478	10261
C*	CHS	10262	11045
C*	YMC	11046	11829
C*	CSW	11830	12613
C*	BNY	12614	13397
C*	SHL	13398	14181
C*	TAC	14182	14965
C*	EMH	14966	15749
C*	MLK	15750	16533
C*	ORCR	16534	17317
C*	MMP	17318	18101
C*	LMC	18102	18885
C*	WMDR	18886	19669
C*	SKI	19670	20453
C*	SCHR	20454	21237
C*	DMP	21238	22021
C*	CASR	22022	22805
C*	MGNR	22806	23589
C*	BENR	23590	24373

C*END

3433 84 0410 719 SUC 29.84 37.5503N 118.8256W 5.14A 3.1D 28 82 7 .11
 3433 84 0410 719 PHC USGSMHD EPU2 48.09
 3433 84 0410 719 PHC USGSWMDR IPU0 33.94
 3433 84 0410 719 PHC USGSMAT IPU1 46.52
 3433 84 0410 719 PHC USGSFRI EPD2 46.98
 3433 84 0410 719 PHC USGSCASR IPD0 34.75
 3433 84 0410 719 PHC USGSLLK IPU0 31.80
 3433 84 0410 719 PHC USGSBENR IPD0 35.11
 3433 84 0410 719 PHC USGSEMH IPD0 33.30
 3433 84 0410 719 PHC USGSLCC IPD0 32.22

***** 23551 data cards not shown here *****

C#FINIS DSN=SL000081

Table SL000082

C#DSN=SL000082;SIZE=017843;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=051;STRT=000001;
 C*DATE: 19850430; 0; 840412A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840412; 19840412; 37.550N; 37.550N; 118.844W; 118.844W; ; 3550;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840412 AT 18:02
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCLK	37.5902N	118.8242W	2630	4.9673	25.6331	45135	45812
CCLKR	37.5902N	118.8242W	2630	4.9673	25.6331	62693	63479
CRSM	37.5107N	118.8822W	3680	6.0965	224.9641	69539	70325
CCVM	37.6098N	118.8733W	2260	7.4286	333.4741	80084	80760
CLLK	37.5788N	118.9050W	3030	7.5645	295.1760	62016	62692
CDOE	37.6387N	118.8355W	2220	9.8825	5.1775	71781	72455
CLCC	37.6105N	118.9158W	2550	10.4878	309.8772	64760	65434
CLCCR	37.6105N	118.9158W	2550	10.4878	309.8772	75604	76390
CGRP	37.6265N	118.9013W	2208	10.6549	322.8486	85133	85807
CMDW	37.6313N	118.9162W	2350	12.1211	318.1143	83678	84464
CYMC	37.6255N	118.9362W	2340	13.2953	309.0872	85808	86480
CCHS	37.6550N	118.9045W	2420	13.4790	329.7534	82219	82890
CCSW	37.6442N	118.9282W	2280	14.0751	317.9375	86481	87267
CBNY	37.6408N	118.9358W	2325	14.3894	314.4309	87268	87939
CCSR	37.6777N	118.8183W	2122	14.4300	11.2136	80761	81431
CSHL	37.6167N	118.9550W	2530	14.4557	300.8337	68866	69538
CSHLN	37.6167N	118.9550W	2530	14.4557	300.8337	82891	83677
CSHLR	37.6167N	118.9550W	2530	14.4557	300.8337	74817	75603
CRCCR	37.4877N	118.7217W	2804	15.1967	116.8220	77178	77849
CTAC	37.6317N	118.9650W	2398	16.2835	303.8394	70326	71112
CEMH	37.6663N	118.9392W	2495	16.7253	320.4382	64090	64759
CMLK	37.6643N	118.9750W	2670	19.3628	310.8826	71113	71780
CMMP	37.6100N	119.0280W	2870	21.5946	287.9873	84465	85132
CLMC	37.7288N	118.9465W	2540	22.8840	329.9307	65435	66098
CORCR	37.6353N	118.6560W	2301	22.9197	65.6062	67539	68204
CSKI	37.6530N	119.0238W	2660	23.0946	299.6445	81432	82218
CWMDR	37.4435N	118.6370W	1683	25.8197	117.0632	44471	45134
CSCHR	37.3658N	118.6870W	2365	26.7881	139.4187	68205	68865
CDMP	37.7080N	119.0458W	2550	28.5229	307.8542	79424	80083

CCASR	37.5748N	118.5515W	2107	32.6272	85.1194	61356	62015
CMGNR	37.8133N	118.6955W	2472	33.4804	29.4807	66099	66751
CBENR	37.7155N	118.5733W	2463	35.2266	58.6382	63480	64089
CLULR	38.0523N	119.1803W	2243	67.0428	325.9961	76391	77177
CMMCR	38.3608N	119.1283W	2548	95.1778	340.5386	66752	67538
CMNP	37.4150N	119.7283W	1000	99.6332	261.3984	55847	56633
CMNPN	37.4150N	119.7283W	1000	99.6332	261.3984	56634	57420
CFRI	36.9917N	119.7083W	119	114.4495	237.3148	60569	61355
CMAT	37.8733N	119.8667W	1353	119.3917	287.4392	52896	53485
CMHD	37.1235N	119.8923W	180	125.9740	248.0034	27944	28730
CMYL	37.3780N	120.4197W	84	176.5213	263.8228	28731	29517
CMST	37.9045N	120.4048W	366	178.1790	282.7190	58995	59781
CMCH	38.0187N	120.5095W	475	192.5813	285.6223	53486	54272
CMDY	37.9000N	120.5673W	176	195.7670	281.4111	57421	58207
CPWM	36.4328N	120.2110W	72	196.5282	230.8700	77850	78636
CWKT	35.7940N	118.4425W	890	200.6313	167.1116	73243	74029
CMRF	38.2453N	120.5207W	799	201.9642	292.3936	58208	58994
CMCU	37.9727N	120.6170W	336	202.8965	283.3279	54273	55059
CWCH	35.8830N	118.0747W	2475	204.4549	155.1917	72456	73242
CPDR	36.3357N	120.3687W	488	217.0511	231.5817	78637	79423
CPAR	36.2492N	120.3420W	485	220.9485	229.1400	5908	6694
CWOF	35.5357N	118.7125W	1341	225.0673	176.2739	74030	74816
CMNH	38.1458N	120.8137W	219	229.0355	286.7283	55060	55846
CBRM	36.8450N	120.8237W	372	234.0282	250.5051	33453	34239
CBMS	36.6630N	120.7918W	811	238.3545	245.6296	16139	16925
CPCR	36.0938N	120.4347W	296	240.2701	227.6215	5121	5907
CSRT	35.6918N	117.7493W	698	240.3902	149.4658	59782	60568
CAOD	38.6148N	120.7285W	520	240.7978	299.3252	31879	32665
CADW	38.4392N	120.8482W	251	243.9702	293.7952	29518	30304
CPRC	36.2562N	120.6200W	623	244.7734	234.0315	7482	8268
CPPF	35.8818N	120.4135W	469	255.3082	223.3280	4334	5120
CPHR	36.3730N	120.8183W	732	256.0486	239.3048	8269	9055
CHSL	37.0193N	121.0855W	520	256.5354	256.7627	50535	51321
CPHGV	35.8760N	120.4835W	792	261.1956	224.4769	3547	4333
CBAVZ	36.6458N	121.0298W	604	263.4717	247.6312	17713	18499
CBAVV	36.6458N	121.0298W	604	263.4717	247.6312	16926	17712
CHCP	37.1945N	121.1847W	513	263.6636	261.4246	45813	46599
CBBG	36.5783N	121.0385W	1097	267.3364	246.2213	15352	16138
CPWK	35.8145N	120.5112W	503	268.3120	223.9175	2760	3546
CBEM	36.6613N	121.0960W	488	269.6665	248.5665	24009	24795
CP3W	36.3150N	120.9292W	381	270.0110	239.4637	9056	9842
CBRV	36.4248N	121.0183W	541	272.7407	242.7411	13778	14564
CBBN	36.5100N	121.0755W	448	274.2585	245.1146	14565	15351
CCMP	37.3577N	121.3085W	799	275.2837	265.5742	41323	42109
CHQRV	36.8337N	121.2127W	536	275.6260	253.2667	19287	20073
CBEH	36.6647N	121.1742W	342	277.6609	249.2964	24796	25582
CHPLE	37.0522N	121.2900W	152	277.9995	258.5698	20861	21647
CHPLV	37.0522N	121.2900W	152	277.9995	258.5698	20074	20860
CAGI	38.8447N	120.9813W	305	278.0659	301.0730	31092	31878
CPSH	35.5908N	120.4153W	390	280.1523	218.7780	1973	2759
CCOS	37.5085N	121.3740W	1020	281.7627	269.0732	42110	42896
CBVL	36.5752N	121.1890W	510	282.9001	247.5272	21648	22434
CAFD	38.9480N	120.9723W	549	283.3743	303.1689	30305	31091
CPSA	36.0253N	120.8883W	184	284.2688	233.3656	6695	7481
CHLT	36.8845N	121.3082W	183	284.2954	254.9731	49748	50534
CBHR	36.7278N	121.2638W	213	284.6716	251.3280	27157	27943

CPLO	36.2465N	121.0425W	308	284.8088	239.4303	9843	10629
CHJS	36.8165N	121.2987W	215	285.3601	253.4533	48174	48960
CBSCV	36.6417N	121.2598W	323	287.5015	249.4913	18500	19286
CBLR	36.6660N	121.2727W	232	287.9065	250.0956	25583	26369
CHFE	36.9833N	121.4015W	323	291.7556	257.5825	46600	47386
CBSL	36.7755N	121.3493W	155	292.0918	252.9117	26370	27156
CHGS	37.0958N	121.4472W	778	294.3040	260.1677	47387	48173
CBJO	36.6108N	121.3135W	1052	294.3286	249.2727	22435	23221
CCMM	37.4557N	121.4937W	1117	295.2451	267.9817	40536	41322
CCST	37.6392N	121.4982W	205	295.7019	271.9182	43684	44470
CHKR	36.9017N	121.4260W	66	296.5142	255.9868	48961	49747
CBSGE	36.4138N	121.2537W	192	296.8376	244.8512	12991	13777
CBSGV	36.4138N	121.2537W	192	296.8376	244.8512	12204	12990
CCA0V	37.3493N	121.5327W	628	300.2473	265.7651	36601	37387
CHSP	37.1152N	121.5157W	850	301.4658	260.8181	51322	52108
CAPR	38.8770N	121.2172W	133	302.6265	299.0872	32666	33452
CBJC	36.5470N	121.3922W	207	305.0964	248.6083	23222	24008
CCML	37.4773N	121.6515W	1076	312.7302	268.5325	39749	40535
CCAD	37.1638N	121.6258W	207	312.7783	262.1504	35027	35813
CCCO	37.2577N	121.6725W	366	316.6721	264.1433	37388	38174
CJCB	37.1118N	121.6888W	192	320.5693	261.3013	52109	52895
CBPP	36.1687N	121.3780W	1591	321.6921	241.4878	10630	11416
CCMH	37.3595N	121.7563W	518	325.0039	266.2876	38175	38961
CCSC	37.2852N	121.7725W	128	327.4575	264.8721	42897	43683
CCAC	37.9762N	121.7603W	74	328.1140	278.2637	34240	35026
CBHS	36.3558N	121.5398W	646	328.5811	246.1943	11417	12203
CCALV	37.4512N	121.7992W	265	329.2563	268.1035	35814	36600
CCMJ	37.5208N	121.8705W	498	337.0161	269.4565	38962	39748
CBPR	36.4070N	121.7295W	741	345.8730	248.4743	87940	88726
CIRG1	0.0000	0.0000	0	13866.3555	107.4233	1186	1972
CWWVB	0.0000	0.0000	0	13866.3555	107.4233	399	1185

C*

C* ORIGINAL WAVEFORM CARDS

C3550	84	0412	18	2	WFC	USGSWWVB	18	1	39.65	100	125	16			
C3550	84	0412	18	2	WFC	USGSIRG1	18	1	39.65	100	125	16			
C3550	84	0412	18	2	WFC	USGSPSH	35.5908N	120.4153W	390	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPWK	35.8145N	120.5112W	503	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPHGV	35.8760N	120.4835W	792	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPPF	35.8818N	120.4135W	469	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPCR	36.0938N	120.4347W	296	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPAR	36.2492N	120.3420W	485	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPSA	36.0253N	120.8883W	184	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPRC	36.2562N	120.6200W	623	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPHR	36.3730N	120.8183W	732	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPBW	36.3150N	120.9292W	381	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPLO	36.2465N	121.0425W	308	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBPP	36.1687N	121.3780W	1591	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBHS	36.3558N	121.5398W	646	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBSGV	36.4138N	121.2537W	192	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBSGE	36.4138N	121.2537W	192	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBRV	36.4248N	121.0185W	541	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBBN	36.5100N	121.0755W	448	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBBG	36.5783N	121.0385W	1097	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBMS	36.6630N	120.7918W	811	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBAVV	36.6458N	121.0298W	604	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBAVZ	36.6458N	121.0298W	604	18	1	39.65	100	125	16

C3550	84	0412	18	2	WFC	USG5BSCV	36.6417N	121.2598W	323	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSHQRV	36.8337N	121.2127W	536	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HPLV	37.0522N	121.2900W	152	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSHPLE	37.0522N	121.2900W	152	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BVL	36.5752N	121.1890W	510	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BJO	36.6108N	121.3135W	1052	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BJC	36.5470N	121.3922W	207	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BEM	36.6613N	121.0960W	488	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BEH	36.6647N	121.1742W	342	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BLR	36.6660N	121.2727W	232	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BSL	36.7755N	121.3493W	155	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BHR	36.7278N	121.2638W	213	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSMHD	37.1235N	119.8923W	180	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MYL	37.3780N	120.4197W	84	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5ADW	38.4392N	120.8482W	251	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5AFD	38.9480N	120.9723W	549	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5AGI	38.8447N	120.9813W	305	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5AOD	38.6148N	120.7285W	520	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5APR	38.8770N	121.2172W	133	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5BRM	36.8450N	120.8237W	372	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CAC	37.9762N	121.7603W	74	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CAD	37.1638N	121.6258W	207	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CALV	37.4512N	121.7992W	265	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CAOV	37.3493N	121.5327W	628	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CCO	37.2577N	121.6725W	366	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CMH	37.3595N	121.7563W	518	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CMJ	37.5208N	121.8705W	498	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CML	37.4773N	121.6515W	1076	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CMM	37.4557N	121.4937W	1117	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CMP	37.3577N	121.3085W	799	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5COS	37.5085N	121.3740W	1020	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5C5C	37.2852N	121.7725W	128	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CST	37.6392N	121.4982W	205	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5WMDR	37.4435N	118.6370W	1683	18	1	59.42	100	105	16
C3550	84	0412	18	2	WFC	USG5CLK	37.5902N	118.8242W	2630	18	1	57.09	100	108	16
C3550	84	0412	18	2	WFC	USG5HCP	37.1945N	121.1847W	513	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HFE	36.9833N	121.4015W	323	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HGS	37.0958N	121.4472W	778	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HJS	36.8165N	121.2987W	215	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HKR	36.9017N	121.4260W	66	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HLT	36.8845N	121.3082W	183	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HSL	37.0193N	121.0855W	520	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5HSP	37.1152N	121.5157W	850	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5JCB	37.1118N	121.6888W	192	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MAT	37.8733N	119.8667W	1353	18	2	11.22	100	94	16
C3550	84	0412	18	2	WFC	USG5MCH	38.0187N	120.5095W	475	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MCU	37.9727N	120.6170W	336	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MNH	38.1458N	120.8137W	219	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MNP	37.4150N	119.7283W	1000	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MNP	37.4150N	119.7283W	1000	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MOY	37.9000N	120.5673W	176	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MRF	38.2453N	120.5207W	799	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5MST	37.9045N	120.4048W	366	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5SRT	35.6918N	117.7493W	698	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5FRI	36.9917N	119.7083W	119	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USG5CASR	37.5748N	118.5515W	2107	18	2	0.10	100	105	16

C3550	84	0412	18	2	WFC	USGSLLK	37.5788N	118.9050W	3030	18	1	57.23	100	108	16
C3550	84	0412	18	2	WFC	USGSCLKR	37.5902N	118.8242W	2630	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBENR	37.7155N	118.5733W	2463	18	2	0.79	100	97	16
C3550	84	0412	18	2	WFC	USGSEMH	37.6663N	118.9392W	2495	18	1	58.44	100	106	16
C3550	84	0412	18	2	WFC	USGSLCC	37.6105N	118.9158W	2550	18	1	57.57	100	107	16
C3550	84	0412	18	2	WFC	USGSLMC	37.7288N	118.9465W	2540	18	1	59.44	100	105	16
C3550	84	0412	18	2	WFC	USGSMGMR	37.8133N	118.6955W	2472	18	2	1.11	100	104	16
C3550	84	0412	18	2	WFC	USGSMCCR	38.3608N	119.1283W	2548	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSDRCR	37.6353N	118.6560W	2301	18	1	59.00	100	106	16
C3550	84	0412	18	2	WFC	USGSSCHR	37.3658N	118.6870W	2365	18	1	59.89	100	105	16
C3550	84	0412	18	2	WFC	USGSSHL	37.6167N	118.9550W	2530	18	1	57.98	100	107	16
C3550	84	0412	18	2	WFC	USGSRSM	37.5107N	118.8822W	3680	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSTAC	37.6317N	118.9650W	2398	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSMLK	37.6643N	118.9750W	2670	18	1	58.71	100	106	16
C3550	84	0412	18	2	WFC	USGSDOE	37.6387N	118.8355W	2220	18	1	57.65	100	107	16
C3550	84	0412	18	2	WFC	USGSWCH	35.8830N	118.0747W	2475	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSWKT	35.7940N	118.4425W	890	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSWOF	35.5357N	118.7125W	1341	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSSHLR	37.6167N	118.9550W	2530	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSLCCR	37.6105N	118.9158W	2550	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSLULR	38.0523N	119.1803W	2243	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSRCCR	37.4877N	118.7217W	2804	18	1	58.06	100	107	16
C3550	84	0412	18	2	WFC	USGSPWM	36.4328N	120.2110W	72	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSPDR	36.3357N	120.3687W	488	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSDMP	37.7080N	119.0458W	2550	18	1	59.96	100	105	16
C3550	84	0412	18	2	WFC	USGSCVM	37.6098N	118.8733W	2260	18	1	57.32	100	107	16
C3550	84	0412	18	2	WFC	USGSCSR	37.6777N	118.8183W	2122	18	1	58.28	100	106	16
C3550	84	0412	18	2	WFC	USGSSKI	37.6530N	119.0238W	2660	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSCHS	37.6550N	118.9045W	2420	18	1	58.05	100	107	16
C3550	84	0412	18	2	WFC	USGSSHLN	37.6167N	118.9550W	2530	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSMDW	37.6313N	118.9162W	2350	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSMMP	37.6100N	119.0280W	2870	18	1	58.77	100	106	16
C3550	84	0412	18	2	WFC	USGSGRP	37.6265N	118.9013W	2208	18	1	57.65	100	107	16
C3550	84	0412	18	2	WFC	USGSYMC	37.6255N	118.9362W	2340	18	1	57.89	100	107	16
C3550	84	0412	18	2	WFC	USGSCSW	37.6442N	118.9282W	2280	18	1	39.65	100	125	16
C3550	84	0412	18	2	WFC	USGSBNY	37.6408N	118.9358W	2325	18	1	58.07	100	107	16
C3550	84	0412	18	2	WFC	USGSBPR	36.4070N	121.7295W	741	18	1	39.65	100	125	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	800	829
C*	STA	830	858
C*	SAT	859	949
C*	SPC	950	2544
C*	CQ1	2545	2586
C*	CQ2	2587	2712
C*	CQ3	2713	2862
C*	WFC	2863	2890

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
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C*			
C*	CLK	2891	3424
C*	CLKR	3425	3958
C*	RSM	3959	4492
C*	CVM	4493	5026
C*	LLK	5027	5560
C*	DOE	5561	6094
C*	LCC	6095	6628
C*	GRP	6629	7162
C*	MDW	7163	7696
C*	YMC	7697	8230
C*	CHS	8231	8764
C*	CSW	8765	9298
C*	BNY	9299	9832
C*	CSR	9833	10366
C*	SHL	10367	10900
C*	RCCR	10901	11434
C*	EMH	11435	11968
C*	MLK	11969	12502
C*	MMP	12503	13036
C*	LMC	13037	13570
C*	ORCR	13571	14104
C*	SKI	14105	14638
C*	WMDR	14639	15172
C*	SCHR	15173	15706
C*	DMP	15707	16240
C*	CASR	16241	16774
C*	MGNR	16775	17308
C*	BENR	17309	17842

C*END-----

3550	84	0412	18	2	SUC	4.92	37.5497N	118.8435W	9.93A	2.6D	29	72	4	.12
3550	84	0412	18	2	PHC	USGSMHD	IPU1	22.69						
3550	84	0412	18	2	PHC	USGSWMDR	IPU0	9.31						
3550	84	0412	18	2	PHC	USGSCCLK	IPU0	7.07						
3550	84	0412	18	2	PHC	USGSMAT	IPD	21.22						
3550	84	0412	18	2	PHC	USGSCASR	EPU2	10.22						
3550	84	0412	18	2	PHC	USGSLLK	IPU0	7.21						
3550	84	0412	18	2	PHC	USGSBENR	IPD0	10.57						
3550	84	0412	18	2	PHC	USGSEMH	IPD0	8.46						
3550	84	0412	18	2	PHC	USGSLCC	IPU0	7.52						

***** 17033 data cards not shown here *****

C#FINIS DSN=SL000082

Table SL000083

C#DSN=SL000083;SIZE=010244;DATE=050285;ARCH=JN;TAPE=5M9302;FILE=052;STRT=000001;
 C*DATE: 19850430; 0; 840421A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840421; 19840421; 37.398N; 37.398N; 118.597W; 118.597W; ; 3877;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840421 AT 19:04
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	6.7208	318.3652	3403	4019
CSCHR	37.3658N	118.6870W	2365	10.6517	250.3881	15894	16507
CRCCR	37.4877N	118.7217W	2804	17.0698	305.5034	23523	24130
CCASR	37.5748N	118.5515W	2107	20.1888	14.4980	9889	10442
CORCR	37.6353N	118.6560W	2301	27.0482	345.9175	15197	15893
CCLK	37.5902N	118.8242W	2630	33.0453	310.0161	4020	4716
CCLKR	37.5902N	118.8242W	2630	33.0453	310.0161	11140	11732
CRSM	37.5107N	118.8822W	3680	34.1225	291.4114	17205	17901
CBENR	37.7155N	118.5733W	2463	35.1995	4.2788	11733	12154
CDOE	37.6387N	118.8355W	2220	37.6011	315.0505	18644	19340
CCVM	37.6098N	118.8733W	2260	38.6705	307.2673	24828	25524
CCSR	37.6777N	118.8183W	2122	39.5454	321.4409	25525	26044
CLLK	37.5788N	118.9050W	3030	39.7024	300.2280	10443	11139
CGRP	37.6265N	118.9013W	2208	42.2708	306.6997	29069	29653
CLCC	37.6105N	118.9158W	2550	42.5751	303.4919	12734	13227
CLCCR	37.6105N	118.9158W	2550	42.5751	303.4919	22129	22825
CMDW	37.6313N	118.9162W	2350	43.9213	305.9629	27908	28491
CCHS	37.6550N	118.9045W	2420	44.4985	309.6814	26742	27210
CYMC	37.6255N	118.9362W	2340	45.3844	303.6560	29654	30183
CCSW	37.6442N	118.9282W	2280	45.8418	306.4238	30184	30765
CBNY	37.6408N	118.9358W	2325	46.3063	305.4277	30766	31033
CSHL	37.6167N	118.9550W	2530	46.6289	301.2341	16508	17204
CSHLN	37.6167N	118.9550W	2530	46.6289	301.2341	27211	27907
CSHLR	37.6167N	118.9550W	2530	46.6289	301.2341	21432	22128
CMGMR	37.8133N	118.6955W	2472	47.2051	346.5535	13925	14499
CEMH	37.6663N	118.9392W	2495	48.2929	307.8962	12155	12733
CTAC	37.6317N	118.9650W	2398	48.4472	302.2290	17902	18115
CMLK	37.6643N	118.9750W	2670	51.3705	304.9690	18116	18643
CLMC	37.7288N	118.9465W	2540	53.4080	313.2173	13228	13924

CMMP	37.6100N	119.0280W	2870	53.4147	296.0271	28492	29068
CSKI	37.6530N	119.0238W	2660	55.2615	300.6743	26045	26741
CDMP	37.7080N	119.0458W	2550	60.5994	304.4399	24131	24827
CLULR	38.0523N	119.1803W	2243	97.2127	318.0808	22826	23522
CMMCR	38.3608N	119.1283W	2548	121.8108	330.9417	14500	15196
CMNP	37.4150N	119.7283W	1000	125.9999	270.8499	6808	7329
CFRI	36.9917N	119.7083W	119	131.7593	250.0103	9192	9888
CMHD	37.1235N	119.8923W	180	147.4666	258.0962	2422	2928
CWCH	35.8830N	118.0747W	2475	178.6000	160.9543	19341	20037
CWKT	35.7940N	118.4425W	890	179.6351	174.4946	20038	20734
CMYL	37.3780N	120.4197W	84	202.9940	269.3721	2929	3402
CWOF	35.5357N	118.7125W	1341	208.1967	183.5545	20735	21431
CMST	37.9045N	120.4048W	366	208.9049	285.5469	8724	9191
CMCH	38.0187N	120.5095W	475	223.7001	287.8633	4717	5413
CMOY	37.9000N	120.5673W	176	226.2631	284.1975	7330	8026
CMCU	37.9727N	120.6170W	336	233.6850	285.7756	5414	6110
CMRF	38.2453N	120.5207W	799	233.7682	293.6265	8027	8723
CMNH	38.1458N	120.8137W	219	260.2646	288.5215	6111	6807
CBAVV	36.6458N	121.0298W	604	283.7637	252.8840	1725	2421
CIRGI	0.0000	0.0000	0	13836.0820	107.3931	1028	1724
CWWVB	0.0000	0.0000	0	13836.0820	107.3931	331	1027

C*

C* ORIGINAL WAVEFORM CARDS

C3877	84	0421	19	4	WFC USGSWWVB		19	3	52.71	100	111	16	
C3877	84	0421	19	4	WFC USGSIIRGI		19	3	52.71	100	111	16	
C3877	84	0421	19	4	WFC USGSBAVV	36.6458N 121.0298W	604	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMHD	37.1235N 119.8923W	180	19	4	23.14	100	80	16
C3877	84	0421	19	4	WFC USGSMYL	37.3780N 120.4197W	84	19	4	28.30	100	75	16
C3877	84	0421	19	4	WFC USGSWMDR	37.4435N 118.6370W	1683	19	4	5.53	100	98	16
C3877	84	0421	19	4	WFC USGSCCLK	37.5902N 118.8242W	2630	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMCH	38.0187N 120.5095W	475	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMCU	37.9727N 120.6170W	336	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMNH	38.1458N 120.8137W	219	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMNP	37.4150N 119.7283W	1000	19	4	20.69	100	83	16
C3877	84	0421	19	4	WFC USGSMOY	37.9000N 120.5673W	176	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMRF	38.2453N 120.5207W	799	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMST	37.9045N 120.4048W	366	19	4	29.26	100	74	16
C3877	84	0421	19	4	WFC USGSFRI	36.9917N 119.7083W	119	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSCASR	37.5748N 118.5515W	2107	19	4	7.72	100	88	16
C3877	84	0421	19	4	WFC USGSLLK	37.5788N 118.9050W	3030	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSCCLKR	37.5902N 118.8242W	2630	19	4	9.28	100	94	16
C3877	84	0421	19	4	WFC USGSBENR	37.7155N 118.5733W	2463	19	4	10.28	100	67	16
C3877	84	0421	19	4	WFC USGSEMH	37.6663N 118.9392W	2495	19	4	11.49	100	92	16
C3877	84	0421	19	4	WFC USGSLCC	37.6105N 118.9158W	2550	19	4	10.53	100	78	16
C3877	84	0421	19	4	WFC USGSLMC	37.7288N 118.9465W	2540	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSMGMR	37.8133N 118.6955W	2472	19	4	12.25	100	91	16
C3877	84	0421	19	4	WFC USGSMCCR	38.3608N 119.1283W	2548	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSORCR	37.6353N 118.6560W	2301	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSSCHR	37.3658N 118.6870W	2365	19	4	5.90	100	97	16
C3877	84	0421	19	4	WFC USGSSHL	37.6167N 118.9550W	2530	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSRSM	37.5107N 118.8822W	3680	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSTAC	37.6317N 118.9650W	2398	19	4	11.35	100	33	16
C3877	84	0421	19	4	WFC USGSMKL	37.6643N 118.9750W	2670	19	4	11.86	100	84	16
C3877	84	0421	19	4	WFC USGSDOE	37.6387N 118.8355W	2220	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSWCH	35.8830N 118.0747W	2475	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC USGSWKT	35.7940N 118.4425W	890	19	3	52.71	100	111	16

C3877	84	0421	19	4	WFC	USGSWOF	35.5357N	118.7125W	1341	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSSHLR	37.6167N	118.9550W	2530	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSLCCR	37.6105N	118.9158W	2550	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSLULR	38.0523N	119.1803W	2243	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSRCCR	37.4877N	118.7217W	2804	19	4	6.85	100	96	16
C3877	84	0421	19	4	WFC	USGSDMP	37.7080N	119.0458W	2550	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSCVM	37.6098N	118.8733W	2260	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSCSR	37.6777N	118.8183W	2122	19	4	10.52	100	82	16
C3877	84	0421	19	4	WFC	USGSSKI	37.6530N	119.0238W	2660	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSCHS	37.6550N	118.9045W	2420	19	4	10.98	100	74	16
C3877	84	0421	19	4	WFC	USGSSHLN	37.6167N	118.9550W	2530	19	3	52.71	100	111	16
C3877	84	0421	19	4	WFC	USGSMDW	37.6313N	118.9162W	2350	19	4	10.79	100	93	16
C3877	84	0421	19	4	WFC	USGSMMP	37.6100N	119.0280W	2870	19	4	11.89	100	91	16
C3877	84	0421	19	4	WFC	USGSGRP	37.6265N	118.9013W	2208	19	4	10.57	100	93	16
C3877	84	0421	19	4	WFC	USGSYMC	37.6255N	118.9362W	2340	19	4	10.94	100	84	16
C3877	84	0421	19	4	WFC	USGSCSW	37.6442N	118.9282W	2280	19	4	11.09	100	92	16
C3877	84	0421	19	4	WFC	USGSBNY	37.6408N	118.9358W	2325	19	4	11.13	100	42	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	662	689
C*	STA	690	712
C*	SAT	713	779
C*	SPC	780	1819
C*	CQ1	1820	1831
C*	CQ2	1832	1861
C*	CQ3	1862	1927
C*	WFC	1928	1949

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	WMDR	1950	2326
C*	SCHR	2327	2703
C*	RCCR	2704	3080
C*	CASR	3081	3457
C*	ORCR	3458	3834
C*	CLK	3835	4211
C*	CLKR	4212	4588
C*	BENR	4589	4965
C*	CSR	4966	5342
C*	GRP	5343	5719
C*	LCC	5720	6096
C*	MDW	6097	6473
C*	CHS	6474	6850
C*	YMC	6851	7227
C*	CSW	7228	7604
C*	BNY	7605	7981
C*	MGNR	7982	8358
C*	EMH	8359	8735
C*	TAC	8736	9112

C*	MLK	9113	9489
C*	LMC	9490	9866
C*	MMP	9867	10243

C*END-----

3877	84	0421	19	4	SUC	13.64	37.3981N	118.5969W	6.77A	2.2D	26	234	6	.16
3877	84	0421	19	4	PHC	USGSMHD	IPU1	33.54						
3877	84	0421	19	4	PHC	USGSMYL	EPU2	40.40						
3877	84	0421	19	4	PHC	USGSWMDR	IPD0	15.62						
3877	84	0421	19	4	PHC	USGSMNP	IPU0	30.49						
3877	84	0421	19	4	PHC	USGSMST	EP4	41.12						
3877	84	0421	19	4	PHC	USGSCASR	IPU0	17.78						
3877	84	0421	19	4	PHC	USGSCLKR	IPU0	19.24						
3877	84	0421	19	4	PHC	USGSBENR	IPU0	20.04						
3877	84	0421	19	4	PHC	USGSEMH	IPU0	21.52						

***** 9572 data cards not shown here *****

C#FINIS DSN=SL000083

Table SL000084

C#DSN=SL000084;SIZE=017822;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=053;STRT=000001;
 C*DATE: 19850430; 0; 840422A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840422; 19840422; 37.535N; 37.535N; 118.849W; 118.849W; ; 3910;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840422 AT 08:29
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	4.5466	234.6158	101254	102065
CCLK	37.5902N	118.8242W	2630	6.7454	24.0620	62658	63469
CCLKR	37.5902N	118.8242W	2630	6.7454	24.0620	94037	94748
CLLK	37.5788N	118.9050W	3030	7.9368	308.1133	93225	94036
CCVM	37.6098N	118.8733W	2260	8.7592	341.9343	114323	115032
CLCCR	37.6105N	118.9158W	2550	11.2297	318.4575	108153	108861
CLCC	37.6105N	118.9158W	2550	11.2297	318.4575	96141	96849
CDOE	37.6387N	118.8355W	2220	11.6193	7.3833	103385	104092
CGRP	37.6265N	118.9013W	2208	11.7270	330.1697	119364	120071
CMDW	37.6313N	118.9162W	2350	13.0656	325.0149	117955	118661
CYMC	37.6255N	118.9362W	2340	13.9901	315.9995	120072	120778
CCHS	37.6550N	118.9045W	2420	14.6917	335.0886	116437	117142
CSHLN	37.6167N	118.9550W	2530	14.9041	307.5820	117143	117954
CSHLR	37.6167N	118.9550W	2530	14.9041	307.5820	107341	108152
CSHL	37.6167N	118.9550W	2530	14.9041	307.5820	100442	101253
CCSW	37.6442N	118.9282W	2280	15.0027	323.9536	120779	121484
CRCCR	37.4877N	118.7217W	2804	15.0795	110.0759	109674	110380
CBNY	37.6408N	118.9358W	2325	15.2233	320.5439	121485	122190
CCSR	37.6777N	118.8183W	2122	16.1977	12.1440	115033	115736
CTAC	37.6317N	118.9650W	2398	16.8094	309.7498	102066	102682
CEMH	37.6663N	118.9392W	2495	17.7047	325.4089	95438	96140
CMLK	37.6643N	118.9750W	2670	20.0774	315.6375	102683	103384
CMMP	37.6100N	119.0280W	2870	21.6156	292.7222	118662	119363
CSKI	37.6530N	119.0238W	2660	23.4693	303.9407	115737	116436
CLMC	37.7288N	118.9465W	2540	24.0759	333.1748	96850	97546
CORCR	37.6353N	118.6560W	2301	24.1956	62.5681	99045	99744
CW1DR	37.4435N	118.6370W	1683	25.6519	113.1037	61959	62657
CSCHR	37.3658N	118.6870W	2365	25.9494	135.9937	99745	100441
CDMP	37.7080N	119.0458W	2550	29.1289	311.1921	113629	114322

CCASR	37.5748N	118.5515W	2107	33.4090	82.3340	92531	93224
CMGNR	37.8133N	118.6955W	2472	35.2406	28.9871	97547	98232
CBENR	37.7155N	118.5733W	2463	36.6320	56.8828	94749	95437
CLULR	38.0523N	119.1803W	2243	68.1141	327.2058	108862	109673
CMMCR	38.3608N	119.1283W	2548	96.5660	341.2070	98233	99044
CMNP	37.4150N	119.7283W	1000	98.8007	262.3101	87018	87658
CMNPN	37.4150N	119.7283W	1000	98.8007	262.3101	87659	88470
CFRI	36.9917N	119.7083W	119	113.0428	237.8673	91719	92530
CMAT	37.8733N	119.8667W	1353	119.3349	288.2954	83770	84581
CMHD	37.1235N	119.8923W	180	124.7958	248.6155	45911	46530
CMYL	37.3780N	120.4197W	84	175.7519	264.3464	46531	47342
CMST	37.9045N	120.4048W	366	177.9709	283.2893	90095	90906
CMCH	38.0187N	120.5095W	475	192.4621	286.1521	84582	85393
CPWM	36.4328N	120.2110W	72	195.0072	231.1416	110381	111192
CMOY	37.9000N	120.5673W	176	195.5177	281.9287	88471	89282
CPHB	36.2488N	120.0827W	100	198.3841	223.9128	111193	112004
CWKT	35.7940N	118.4425W	890	199.1309	166.8342	104905	105716
CMRF	38.2453N	120.5207W	799	202.0538	292.8989	89283	90094
CMCU	37.9727N	120.6170W	336	202.7059	283.8293	85394	86205
CWCH	35.8830N	118.0747W	2475	203.1883	154.8381	104093	104904
CPDR	36.3357N	120.3687W	488	215.5419	231.8325	112005	112816
CPKE	36.0615N	120.1090W	288	215.9147	220.6197	112817	113628
CPAR	36.2492N	120.3420W	485	219.4001	229.3693	17491	18302
CWOF	35.5357N	118.7125W	1341	223.4292	176.0916	106529	107340
CWHV	35.5100N	118.5178W	1006	228.8039	170.7024	105717	106528
CMNH	38.1458N	120.8137W	219	228.9483	287.1743	86206	87017
CBRM	36.8450N	120.8237W	372	232.9091	250.8455	59523	60334
CBMS	36.6630N	120.7918W	811	237.1217	245.9396	31295	32106
CPCR	36.0938N	120.4347W	296	238.6985	227.8224	16679	17490
CSRT	35.6918N	117.7493W	698	239.2543	149.1362	90907	91718
CAOD	38.6148N	120.7285W	520	241.0975	299.7429	53839	54650
CPRC	36.2562N	120.6200W	623	243.3064	234.2687	20739	21550
CPCA	35.9317N	120.3370W	1189	243.7434	222.9377	14243	15054
CADW	38.4392N	120.8482W	251	244.1003	294.2129	48155	48966
CPMR	35.7848N	120.2357W	512	248.9007	218.4489	8559	9370
CPGH	35.8310N	120.3528W	433	253.3159	221.4924	10183	10994
CPPF	35.8818N	120.4135W	469	253.6770	223.4899	13431	14242
CPSM	36.0697N	120.5947W	988	253.9402	230.0765	18303	19114
CPAG	35.7320N	120.2493W	482	254.5081	217.8884	7747	8558
CPHRN	36.3730N	120.8183W	732	254.6815	239.5609	23175	23986
CPHR	36.3730N	120.8183W	732	254.6815	239.5609	22363	23174
CHSL	37.0193N	121.0855W	520	255.5741	257.0986	78898	79709
CPHA	35.8360N	120.3985W	455	256.3074	222.4294	10995	11806
CPST	35.9288N	120.5083W	573	257.3704	226.0049	15055	15866
CPTR	35.6547N	120.2112W	643	258.9041	215.9683	6935	7746
CPHGV	35.8760N	120.4835W	792	259.5791	224.6423	12619	13430
CALA	38.5667N	120.9562W	293	261.0222	295.9612	52215	53026
CPMP	36.2152N	120.7948W	784	261.9346	235.9464	21551	22362
CPPT	36.1083N	120.7212W	506	262.2686	232.7789	19927	20738
CBAVZ	36.6458N	121.0298W	604	262.2849	247.9208	32919	33730
CBAVV	36.6458N	121.0298W	604	262.2849	247.9208	32107	32918
CHCP	37.1945N	121.1847W	513	262.8271	261.7673	65906	66717
CPMCV	35.7247N	120.3705W	488	263.6597	220.0999	9371	10182
CBBG	36.5783N	121.0385W	1097	266.1174	246.5002	30483	31294
CPWK	35.8145N	120.5112W	503	266.6880	224.0751	11807	12618
CARJ	38.6865N	120.9563W	460	267.1575	298.5254	56275	57086

CBEM	36.6613N	121.0960W	488	268.5015	248.8535	40227	41038
CPBW	36.3150N	120.9292W	381	268.6470	239.7073	23987	24798
CTBM	35.1358N	118.5968W	1237	269.2959	173.9983	2063	2874
CBRV	36.4248N	121.0183W	541	271.4451	242.9984	28047	28858
CBBN	36.5100N	121.0755W	448	273.0146	245.3815	29671	30482
CPIV	35.9065N	120.6823W	497	273.3306	228.4560	15867	16678
CTCG	35.2422N	119.7233W	1204	273.8767	200.8878	2875	3686
CHQRV	36.8337N	121.2127W	536	274.5757	253.5664	35355	36166
CBEH	36.6647N	121.1742W	342	276.5137	249.5782	41039	41850
CHPLV	37.0522N	121.2900W	152	277.0859	258.8857	36167	36978
CHPLE	37.0522N	121.2900W	152	277.0859	258.8857	36979	37790
CAGI	38.8447N	120.9813W	305	278.4163	301.4326	50591	51402
CBVL	36.5752N	121.1890W	510	281.7112	247.7963	37791	38602
CPSA	36.0253N	120.8883W	184	282.7898	233.5663	19115	19926
CHLT	36.8845N	121.3082W	183	283.2881	255.2699	74838	75649
CPLO	36.2465N	121.0425W	308	283.4446	239.6611	24799	25610
CBHR	36.7278N	121.2638W	213	283.5735	251.6109	45099	45910
CAFD	38.9480N	120.9723W	549	283.7871	303.5190	48967	49778
CBPI	36.4900N	121.1735W	329	283.8928	245.8914	28859	29670
CHJS	36.8165N	121.2987W	215	284.3145	253.7435	73214	74025
CBSCV	36.6417N	121.2598W	323	286.3589	249.7642	33731	34542
CBLR	36.6660N	121.2727W	232	286.7783	250.3705	41851	42662
CAHR	38.8543N	121.0705W	354	287.4880	300.5813	51403	52214
CHFE	36.9833N	121.4015W	323	290.8164	257.8804	68342	69153
CBSL	36.7755N	121.3493W	155	291.0327	253.1932	42663	43474
CARR	38.7653N	121.1718W	127	292.4817	297.7869	57087	57898
CBCG	36.7092N	121.3433W	305	292.6431	251.7740	44287	45098
CBJO	36.6108N	121.3135W	1052	293.1812	249.5384	38603	39414
CHGS	37.0958N	121.4472W	778	293.4331	260.4709	70778	71589
CHPH	36.8563N	121.4062W	122	294.6562	255.2206	76462	77273
CCST	37.6392N	121.4982W	205	295.1636	272.2480	61147	61958
CHKR	36.9017N	121.4260W	66	295.5332	256.2747	74026	74837
CBSGV	36.4138N	121.2537W	192	295.5884	245.0966	27235	28046
CBVY	36.7493N	121.4133W	585	298.7134	253.0541	43475	44286
CHCA	37.0253N	121.4837W	332	298.8442	259.1221	65094	65905
CPMG	35.4298N	120.5203W	529	299.9355	218.4766	3687	4498
CHFH	36.8882N	121.4688W	101	300.5266	256.2126	69154	69965
CHSP	37.1152N	121.5157W	850	300.6130	261.1160	79710	80521
CPAN	35.7797N	120.9073W	451	301.6541	229.6010	4499	5310
CARW	38.9563N	121.1622W	320	302.1384	301.4490	57899	58710
CAPR	38.8770N	121.2172W	133	302.9148	299.4197	55463	56274
CPJLV	36.0898N	121.1555W	290	303.3684	238.0096	6123	6934
CBJC	36.5470N	121.3922W	207	303.9329	248.8620	39415	40226
CHOR	36.9172N	121.5077W	98	303.9854	256.9968	75650	76461
CHSF	36.8120N	121.4995W	340	305.9878	254.8264	78086	78897
CHFP	36.7537N	121.4905W	705	306.8113	253.6095	69966	70777
CHBT	36.8502N	121.5507W	98	310.4167	255.8580	64282	65093
CHCR	36.9577N	121.5835W	241	311.2468	258.1526	66718	67529
CAFR	38.7923N	121.3485W	31	311.3733	296.5867	49779	50590
CALN	38.9297N	121.2878W	54	312.6741	299.6479	53027	53838
CBSRV	36.6665N	121.5187W	395	312.7180	252.0678	34543	35354
CHAZ	36.8847N	121.5908W	122	313.8345	256.7354	63470	64281
CPBY	35.8150N	121.0815W	335	314.2681	232.4482	5311	6122
CHJG	36.7980N	121.5738W	171	314.3928	254.9479	72402	73213
CAVR	39.0245N	121.2708W	114	316.4575	301.4792	58711	59522
CHGW	37.0170N	121.6503W	133	317.2549	259.5913	71590	72401

CJCB	37.1118N	121.6888W	192	319.7300	261.5828	80522	81333
CBPP	36.1687N	121.3780W	1591	320.3701	241.7008	25611	26422
CHDL	36.8353N	121.6440W	204	320.9082	256.0247	67530	68341
CHPR	36.9532N	121.6950W	94	323.5149	258.5178	77274	78085
CJRR	37.0545N	121.7268W	408	324.9187	260.5840	82146	82957
CCSC	37.2852N	121.7725W	128	326.7168	265.1562	60335	61146
CBHS	36.3558N	121.5398W	646	327.3623	246.4210	26423	27234
CAUH	39.3753N	121.2560W	457	337.4275	307.3074	54651	55462
CJPL	36.9770N	121.8322W	158	338.0022	259.4722	81334	82145
CJTG	37.0285N	121.8763W	253	341.8274	260.5640	82958	83769
CABR	39.1352N	121.4868W	24	343.4954	301.1379	47343	48154
CBPR	36.4070N	121.7295W	741	344.7075	248.6975	122191	123002
CWWVB	0.0000	0.0000	0	13866.4961	107.4163	439	1250
CIRG1	0.0000	0.0000	0	13866.4961	107.4163	1251	2062

C*

C* ORIGINAL WAVEFORM CARDS

C3910	84	0422	829	WFC	USGSWWVB		8	28	42.63	100	129	16	
C3910	84	0422	829	WFC	USGSIRG1		8	28	42.63	100	129	16	
C3910	84	0422	829	WFC	USGSTBM	35.1358N 118.5968W	1237	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSTCG	35.2422N 119.7233W	1204	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPMG	35.4298N 120.5203W	529	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPAN	35.7797N 120.9073W	451	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPBY	35.8150N 121.0815W	335	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPJLV	36.0898N 121.1555W	290	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPTR	35.6547N 120.2112W	643	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPAG	35.7320N 120.2493W	482	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPMR	35.7848N 120.2357W	512	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPMCV	35.7247N 120.3705W	488	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPGH	35.8310N 120.3528W	433	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPHA	35.8360N 120.3985W	455	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPWK	35.8145N 120.5112W	503	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPHGV	35.8760N 120.4835W	792	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPPF	35.8818N 120.4135W	469	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPCA	35.9317N 120.3370W	1189	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPST	35.9288N 120.5083W	573	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPIV	35.9065N 120.6823W	497	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPCR	36.0938N 120.4347W	296	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPAR	36.2492N 120.3420W	485	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPSM	36.0697N 120.5947W	988	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPSA	36.0253N 120.8883W	184	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPPT	36.1083N 120.7212W	506	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPRC	36.2562N 120.6200W	623	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPMP	36.2152N 120.7948W	784	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPHR	36.3730N 120.8183W	732	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPHRN	36.3730N 120.8183W	732	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPBW	36.3150N 120.9292W	381	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPLD	36.2465N 121.0425W	308	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBPP	36.1687N 121.3780W	1591	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBHS	36.3558N 121.5398W	646	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBSGV	36.4138N 121.2537W	192	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBRV	36.4248N 121.0183W	541	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBPI	36.4900N 121.1735W	329	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBBN	36.5100N 121.0755W	448	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBBG	36.5783N 121.0385W	1097	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBMS	36.6630N 120.7918W	811	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBAVV	36.6458N 121.0298W	604	8	28	42.63	100	129	16

C3910	84	0422	829	WFC	USGSBAVZ	36.6458N	121.0298W	604	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBSCV	36.6417N	121.2598W	323	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBSRV	36.6665N	121.5187W	395	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHQRV	36.8337N	121.2127W	536	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHPLV	37.0522N	121.2900W	152	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHPLE	37.0522N	121.2900W	152	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBVL	36.5752N	121.1890W	510	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBJO	36.6108N	121.3135W	1052	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBJC	36.5470N	121.3922W	207	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBEM	36.6613N	121.0960W	488	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBEH	36.6647N	121.1742W	342	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBLR	36.6660N	121.2727W	232	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBSL	36.7755N	121.3493W	155	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBVY	36.7493N	121.4133W	585	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBCG	36.7092N	121.3433W	305	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBHR	36.7278N	121.2638W	213	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMHD	37.1235N	119.8923W	180	8	29	13.35	100	98	16
C3910	84	0422	829	WFC	USGSMYL	37.3780N	120.4197W	84	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSABR	39.1352N	121.4868W	24	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSADW	38.4392N	120.8482W	251	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAFD	38.9480N	120.9723W	549	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAFR	38.7923N	121.3485W	31	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAGI	38.8447N	120.9813W	305	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAHR	38.8543N	121.0705W	354	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSALA	38.5667N	120.9562W	293	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSALN	38.9297N	121.2878W	54	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAOD	38.6148N	120.7285W	520	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAOH	39.3753N	121.2560W	457	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAPR	38.8770N	121.2172W	133	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSARJ	38.6865N	120.9563W	460	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSARR	38.7653N	121.1718W	127	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSARW	38.9563N	121.1622W	320	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSAVR	39.0245N	121.2708W	114	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSBRM	36.8450N	120.8237W	372	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSCSC	37.2852N	121.7725W	128	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSCST	37.6392N	121.4982W	205	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSWMDR	37.4435N	118.6370W	1683	8	29	0.68	100	111	16
C3910	84	0422	829	WFC	USGSCCLK	37.5902N	118.8242W	2630	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHAZ	36.8847N	121.5908W	122	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHBT	36.8502N	121.5507W	98	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHCA	37.0253N	121.4837W	332	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHCP	37.1945N	121.1847W	513	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHCR	36.9577N	121.5835W	241	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHDL	36.8353N	121.6440W	204	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHFE	36.9833N	121.4015W	323	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHFH	36.8882N	121.4688W	101	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHFP	36.7537N	121.4905W	705	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHGS	37.0958N	121.4472W	778	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHGW	37.0170N	121.6503W	133	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHJG	36.7980N	121.5738W	171	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHJS	36.8165N	121.2987W	215	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHKR	36.9017N	121.4260W	66	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHLT	36.8845N	121.3082W	183	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHOR	36.9172N	121.5077W	98	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHPH	36.8563N	121.4062W	122	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHPR	36.9532N	121.6950W	94	8	28	42.63	100	129	16

C3910	84	0422	829	WFC	USGSHSF	36.8120N	121.4995W	340	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHSL	37.0193N	121.0855W	520	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSHSP	37.1152N	121.5157W	850	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSJCB	37.1118N	121.6888W	192	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSJPL	36.9770N	121.8322W	158	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSJRR	37.0545N	121.7268W	408	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSJTG	37.0285N	121.8763W	253	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMAT	37.8733N	119.8667W	1353	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMCH	38.0187N	120.5095W	475	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMCU	37.9727N	120.6170W	336	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMNH	38.1458N	120.8137W	219	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMNP	37.4150N	119.7283W	1000	8	29	9.89	100	102	16
C3910	84	0422	829	WFC	USGSMNPN	37.4150N	119.7283W	1000	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMOY	37.9000N	120.5673W	176	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMRF	38.2453N	120.5207W	799	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMST	37.9045N	120.4048W	366	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSSRT	35.6918N	117.7493W	698	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSFRI	36.9917N	119.7083W	119	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSCASR	37.5748N	118.5515W	2107	8	29	1.55	100	110	16
C3910	84	0422	829	WFC	USGSLLK	37.5788N	118.9050W	3030	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSCLKR	37.5902N	118.8242W	2630	8	28	58.62	100	113	16
C3910	84	0422	829	WFC	USGSBENR	37.7155N	118.5733W	2463	8	29	2.35	100	109	16
C3910	84	0422	829	WFC	USGSEMH	37.6663N	118.9392W	2495	8	28	59.96	100	112	16
C3910	84	0422	829	WFC	USGSLCC	37.6105N	118.9158W	2550	8	28	59.05	100	113	16
C3910	84	0422	829	WFC	USGSLMC	37.7288N	118.9465W	2540	8	29	0.99	100	111	16
C3910	84	0422	829	WFC	USGSMGMR	37.8133N	118.6955W	2472	8	29	2.72	100	109	16
C3910	84	0422	829	WFC	USGSMCCR	38.3608N	119.1283W	2548	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSORCR	37.6353N	118.6560W	2301	8	29	0.54	100	111	16
C3910	84	0422	829	WFC	USGSSCHR	37.3658N	118.6870W	2365	8	29	1.05	100	111	16
C3910	84	0422	829	WFC	USGSSHL	37.6167N	118.9550W	2530	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSRSM	37.5107N	118.8822W	3680	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSTAC	37.6317N	118.9650W	2398	8	28	59.69	100	98	16
C3910	84	0422	829	WFC	USGSMLK	37.6643N	118.9750W	2670	8	29	0.20	100	111	16
C3910	84	0422	829	WFC	USGSDOE	37.6387N	118.8355W	2220	8	28	59.23	100	112	16
C3910	84	0422	829	WFC	USGSWCH	35.8830N	118.0747W	2475	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSWKT	35.7940N	118.4425W	890	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSWHV	35.5100N	118.5178W	1006	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSWOF	35.5357N	118.7125W	1341	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSSHLR	37.6167N	118.9550W	2530	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSLCCR	37.6105N	118.9158W	2550	8	28	59.05	100	113	16
C3910	84	0422	829	WFC	USGSLULR	38.0523N	119.1803W	2243	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSRCCR	37.4877N	118.7217W	2804	8	28	59.36	100	112	16
C3910	84	0422	829	WFC	USGSPWM	36.4328N	120.2110W	72	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPHB	36.2488N	120.0827W	100	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPDR	36.3357N	120.3687W	488	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSPKE	36.0615N	120.1090W	288	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSDMP	37.7080N	119.0458W	2550	8	29	1.43	100	110	16
C3910	84	0422	829	WFC	USGSCVM	37.6098N	118.8733W	2260	8	28	58.85	100	113	16
C3910	84	0422	829	WFC	USGSCSR	37.6777N	118.8183W	2122	8	28	59.88	100	112	16
C3910	84	0422	829	WFC	USGSSKI	37.6530N	119.0238W	2660	8	29	0.53	100	111	16
C3910	84	0422	829	WFC	USGSCHS	37.6550N	118.9045W	2420	8	28	59.60	100	112	16
C3910	84	0422	829	WFC	USGSSHLN	37.6167N	118.9550W	2530	8	28	42.63	100	129	16
C3910	84	0422	829	WFC	USGSMDW	37.6313N	118.9162W	2350	8	28	59.32	100	112	16
C3910	84	0422	829	WFC	USGSMMP	37.6100N	119.0280W	2870	8	29	0.15	100	111	16
C3910	84	0422	829	WFC	USGSGRP	37.6265N	118.9013W	2208	8	28	59.17	100	112	16
C3910	84	0422	829	WFC	USGSYMC	37.6255N	118.9362W	2340	8	28	59.38	100	112	16

C3910 84 0422 829 WFC USGSCSW 37.6442N 118.9282W 2280 8 28 59.57 100 112 16
 C3910 84 0422 829 WFC USGSBNY 37.6408N 118.9358W 2325 8 28 59.58 100 112 16
 C3910 84 0422 829 WFC USGSBPR 36.4070N 121.7295W 741 8 28 42.63 100 129 16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	874	904
C*	STA	905	929
C*	SAT	930	1025
C*	SPC	1026	2485
C*	CQ1	2486	2497
C*	CQ2	2498	2611
C*	CQ3	2612	2749
C*	WFC	2750	2773

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	RSM	2774	3400
C*	CLK	3401	4027
C*	CVM	4028	4654
C*	LCC	4655	5281
C*	DOE	5282	5908
C*	GRP	5909	6535
C*	MDW	6536	7162
C*	YMC	7163	7789
C*	CSW	7790	8416
C*	RCCR	8417	9043
C*	BNY	9044	9670
C*	CSR	9671	10297
C*	EMH	10298	10924
C*	M.LK	10925	11551
C*	MMP	11552	12178
C*	SKI	12179	12805
C*	LMC	12806	13432
C*	ORCR	13433	14059
C*	WMDR	14060	14686
C*	SCHR	14687	15313
C*	DMP	15314	15940
C*	CASR	15941	16567
C*	MGNR	16568	17194
C*	BENR	17195	17821

C*END

 3910 84 0422 829 SUC 6.22 37.5345N 118.8489W 10.37A 2.9D 31 10; 6 .10
 3910 84 0422 829 PHC USGSMHD IPU0 23.84
 3910 84 0422 829 PHC USGSWMDR IPU0 10.62
 3910 84 0422 829 PHC USGSCLK IPU0 8.62
 3910 84 0422 829 PHC USGSMAT IPU1 22.57
 3910 84 0422 829 PHC USGSMNP IPU0 19.77
 3910 84 0422 829 PHC USGSCASR IPD0 11.63
 3910 84 0422 829 PHC USGSCLKR IPU0 8.64

3910 84 0422 829 PHC USGSBENR IPD0 12.09

3910 84 0422 829 PHC USGSEMH IPD0 9.98

***** 16938 data cards not shown here *****

C#FINIS DSN=SL000084

Table SL000085

C#DSN=SL000085;SIZE=011438;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=054;STRT=000001;
 C*DATE: 19850430; 0; 840427A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840427; 19840427; 37.451N; 37.451N; 118.633W; 118.633W; ; 4311;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840427 AT 17:26
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	0.9478	210.2458	15132	15826
CRCCR	37.4877N	118.7217W	2804	10.7121	292.3389	41872	42560
CSCHR	37.3658N	118.6870W	2365	11.1905	212.6992	33545	34231
CCASR	37.5748N	118.5515W	2107	16.4180	33.4141	26682	27363
CORCR	37.6353N	118.6560W	2301	20.5584	352.7510	32756	33544
CCLK	37.5902N	118.8242W	2630	26.3044	305.8533	15827	16615
CCLKR	37.5902N	118.8242W	2630	26.3044	305.8533	28153	28826
CRSM	37.5107N	118.8822W	3680	28.5556	283.3945	35021	35809
CBENR	37.7155N	118.5733W	2463	29.9986	12.7351	28827	29384
CDOE	37.6387N	118.8355W	2220	30.6775	312.6135	37257	37926
CCVM	37.6098N	118.8733W	2260	32.0375	303.2690	44000	44668
CCSR	37.6777N	118.8183W	2122	32.4966	320.5195	44669	45457
CLLK	37.5788N	118.9050W	3030	33.4538	295.0154	27364	28152
CGRP	37.6265N	118.9013W	2208	35.6566	303.0012	49014	49679
CLCC	37.6105N	118.9158W	2550	36.1246	299.2522	30045	30710
CLCCR	37.6105N	118.9158W	2550	36.1246	299.2522	40294	41082
CMDW	37.6313N	118.9162W	2350	37.3393	302.2996	47692	48356
CCHS	37.6550N	118.9045W	2420	37.7500	306.7222	46247	46902
CYMC	37.6255N	118.9362W	2340	38.9178	299.7488	49680	50343
CCSW	37.6442N	118.9282W	2280	39.2340	303.0161	50344	51006
CBNY	37.6408N	118.9358W	2325	39.7460	301.8967	51007	51795
CSHLN	37.6167N	118.9550W	2530	40.2961	297.0693	46903	47691
CSHL	37.6167N	118.9550W	2530	40.2961	297.0693	34232	35020
CMGNR	37.8133N	118.6955W	2472	40.6765	350.1047	31311	31966
CEMH	37.6663N	118.9392W	2495	41.6142	304.9211	29385	30044
CTAC	37.6317N	118.9650W	2398	42.0525	298.3918	35810	36598
CMLK	37.6643N	118.9750W	2670	44.8245	301.7708	36599	37256
CLMC	37.7288N	118.9465W	2540	46.5275	311.3381	30711	31310
CMMP	37.6100N	119.0280W	2870	47.3967	291.7937	48357	49013

CSKI	37.6530N	119.0238W	2660	48.9426	297.1729	45458	46246
CDMP	37.7080N	119.0458W	2550	54.0678	301.7244	43350	43999
CLULR	38.0523N	119.1803W	2243	90.2117	317.4883	41083	41871
CMMCR	38.3608N	119.1283W	2548	114.7815	331.2673	31967	32755
CMNP	37.4150N	119.7283W	1000	122.0571	268.1348	22139	22736
CMNPN	37.4150N	119.7283W	1000	122.0571	268.1348	22737	23525
CFRI	36.9917N	119.7083W	119	130.1785	246.9917	25893	26681
CMHD	37.1235N	119.8923W	180	144.9064	255.5095	12184	12764
CMAT	37.8733N	119.8667W	1353	145.0940	288.7778	18983	19771
CWCH	35.8830N	118.0747W	2475	185.4344	160.3774	37927	38715
CWKT	35.7940N	118.4425W	890	185.8671	173.4414	38716	39504
CMYL	37.3780N	120.4197W	84	199.1474	267.6785	12765	13553
CMST	37.9045N	120.4048W	366	203.5489	284.2644	25104	25892
CWOF	35.5357N	118.7125W	1341	213.8352	182.3877	39505	40293
CMCH	38.0187N	120.5095W	475	218.1591	286.7253	19772	20560
CMOY	37.9000N	120.5673W	176	221.0143	282.9836	23526	24314
CMRF	38.2453N	120.5207W	799	227.8137	292.6838	24315	25103
CMCU	37.9727N	120.6170W	336	228.3064	284.6379	20561	21349
CPDR	36.3357N	120.3687W	488	229.8811	237.3682	42561	43349
CPCR	36.0938N	120.4347W	296	251.4481	233.0836	3505	4293
CBRM	36.8450N	120.8237W	372	253.2068	254.6142	14343	15131
CPCA	35.9317N	120.3370W	1189	254.5590	228.3417	2716	3504
CMNH	38.1458N	120.8137W	219	254.6704	287.5615	21350	22138
CPSR	35.8578N	120.2802W	552	255.5595	226.0109	1927	2715
CBMS	36.6630N	120.7918W	811	256.0381	250.0321	7450	8238
CADW	38.4392N	120.8482W	251	269.8293	293.9048	13554	14342
CPHR	36.3730N	120.8183W	732	271.5669	243.8252	4294	5082
CHSL	37.0193N	121.0855W	520	277.3870	260.0732	18194	18982
CBAVV	36.6458N	121.0298W	604	281.7258	251.5089	8239	9027
CBBG	36.5783N	121.0385W	1097	285.1411	250.1386	6661	7449
CPBW	36.3150N	120.9292W	381	285.5479	243.7546	5083	5871
CHCP	37.1945N	121.1847W	513	285.6357	264.2961	16616	17404
CBEM	36.6613N	121.0960W	488	288.1956	252.2993	10606	11394
CBBN	36.5100N	121.0755W	448	291.6951	249.0085	5872	6660
CHQRV	36.8337N	121.2127W	536	295.5161	256.6094	9028	9816
CBEH	36.6647N	121.1742W	342	296.3977	252.8813	11395	12183
CHPLV	37.0522N	121.2900W	152	299.2788	261.5132	9817	10605
CHLT	36.8845N	121.3082W	183	304.6406	258.1055	17405	18193
CIRG1	0.0000	0.0000	0	13841.2344	107.4104	1138	1926
CWNVB	0.0000	0.0000	0	13841.2344	107.4104	349	1137

C*

C* ORIGINAL WAVEFORM CARDS

C4311	84	0427	1726	WFC	USGSWNVB		17	25	56.66	100	125	16	
C4311	84	0427	1726	WFC	USGSIRG1		17	25	56.66	100	125	16	
C4311	84	0427	1726	WFC	USGSPSR	35.8578N 120.2802W	552	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSPCA	35.9317N 120.3370W	1189	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSPCR	36.0938N 120.4347W	296	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSPHR	36.3730N 120.8183W	732	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSPBW	36.3150N 120.9292W	381	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBBN	36.5100N 121.0755W	448	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBBG	36.5783N 121.0385W	1097	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBMS	36.6630N 120.7918W	811	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBAVV	36.6458N 121.0298W	604	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSHQRV	36.8337N 121.2127W	536	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSHPLV	37.0522N 121.2900W	152	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBEM	36.6613N 121.0960W	488	17	25	56.66	100	125	16

C4311	84	0427	1726	WFC	USGSBEH	36.6647N	121.1742W	342	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMHD	37.1235N	119.8923W	180	17	26	29.89	100	92	16
C4311	84	0427	1726	WFC	USGSMYL	37.3780N	120.4197W	84	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSADW	38.4392N	120.8482W	251	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSBRM	36.8450N	120.8237W	372	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSWMDR	37.4435N	118.6370W	1683	17	26	11.66	100	110	16
C4311	84	0427	1726	WFC	USGSCLK	37.5902N	118.8242W	2630	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSHCP	37.1945N	121.1847W	513	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSHLT	36.8845N	121.3082W	183	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSHSL	37.0193N	121.0855W	520	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMAT	37.8733N	119.8667W	1353	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMCH	38.0187N	120.5095W	475	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMCU	37.9727N	120.6170W	336	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMNH	38.1458N	120.8137W	219	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMNP	37.4150N	119.7283W	1000	17	26	27.16	100	95	16
C4311	84	0427	1726	WFC	USGSMNPN	37.4150N	119.7283W	1000	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMOY	37.9000N	120.5673W	176	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMRF	38.2453N	120.5207W	799	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMST	37.9045N	120.4048W	366	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSFRI	36.9917N	119.7083W	119	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSCASR	37.5748N	118.5515W	2107	17	26	13.72	100	108	16
C4311	84	0427	1726	WFC	USGSLLK	37.5788N	118.9050W	3030	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSCLKR	37.5902N	118.8242W	2630	17	26	14.96	100	107	16
C4311	84	0427	1726	WFC	USGSBENR	37.7155N	118.5733W	2463	17	26	16.13	100	88	16
C4311	84	0427	1726	WFC	USGSEMH	37.6663N	118.9392W	2495	17	26	17.20	100	105	16
C4311	84	0427	1726	WFC	USGSLCC	37.6105N	118.9158W	2550	17	26	16.27	100	106	16
C4311	84	0427	1726	WFC	USGSLMC	37.7288N	118.9465W	2540	17	26	18.10	100	95	16
C4311	84	0427	1726	WFC	USGSMGMR	37.8133N	118.6955W	2472	17	26	17.95	100	104	16
C4311	84	0427	1726	WFC	USGSMCCR	38.3608N	119.1283W	2548	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSORCR	37.6353N	118.6560W	2301	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSSCHR	37.3658N	118.6870W	2365	17	26	12.91	100	109	16
C4311	84	0427	1726	WFC	USGSSHL	37.6167N	118.9550W	2530	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSRSM	37.5107N	118.8822W	3680	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSTAC	37.6317N	118.9650W	2398	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMLK	37.6643N	118.9750W	2670	17	26	17.58	100	104	16
C4311	84	0427	1726	WFC	USGSDOE	37.6387N	118.8355W	2220	17	26	15.74	100	106	16
C4311	84	0427	1726	WFC	USGSWCH	35.8830N	118.0747W	2475	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSWKT	35.7940N	118.4425W	890	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSWOF	35.5357N	118.7125W	1341	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSLCCR	37.6105N	118.9158W	2550	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSLULR	38.0523N	119.1803W	2243	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSRCCR	37.4877N	118.7217W	2804	17	26	12.60	100	109	16
C4311	84	0427	1726	WFC	USGSPDR	36.3357N	120.3687W	488	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSDMP	37.7080N	119.0458W	2550	17	26	18.92	100	103	16
C4311	84	0427	1726	WFC	USGSCVM	37.6098N	118.8733W	2260	17	26	15.76	100	106	16
C4311	84	0427	1726	WFC	USGSCSR	37.6777N	118.8183W	2122	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSSKI	37.6530N	119.0238W	2660	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSCHS	37.6550N	118.9045W	2420	17	26	16.67	100	104	16
C4311	84	0427	1726	WFC	USGSSHLN	37.6167N	118.9550W	2530	17	25	56.66	100	125	16
C4311	84	0427	1726	WFC	USGSMDW	37.6313N	118.9162W	2350	17	26	16.51	100	105	16
C4311	84	0427	1726	WFC	USGSMMP	37.6100N	119.0280W	2870	17	26	17.71	100	104	16
C4311	84	0427	1726	WFC	USGSGRP	37.6265N	118.9013W	2208	17	26	16.28	100	106	16
C4311	84	0427	1726	WFC	USGSYMC	37.6255N	118.9362W	2340	17	26	16.68	100	105	16
C4311	84	0427	1726	WFC	USGSCSW	37.6442N	118.9282W	2280	17	26	16.80	100	105	16
C4311	84	0427	1726	WFC	USGSBNY	37.6408N	118.9358W	2325	17	25	56.66	100	125	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*	ITEM	START	END
C*	PHC	702	728
C*	STA	729	753
C*	SAT	754	833
C*	SPC	834	2203
C*	CQ1	2204	2221
C*	CQ2	2222	2257
C*	CQ3	2258	2365
C*	WFC	2366	2389

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*	STATION	START	END
C*	WMDR	2390	2766
C*	RCCR	2767	3143
C*	SCHR	3144	3520
C*	CASR	3521	3897
C*	ORCR	3898	4274
C*	CLKR	4275	4651
C*	RSM	4652	5028
C*	BENR	5029	5405
C*	DOE	5406	5782
C*	CVM	5783	6159
C*	CSR	6160	6536
C*	GRP	6537	6913
C*	LCC	6914	7290
C*	MDW	7291	7667
C*	CHS	7668	8044
C*	YMC	8045	8421
C*	CSW	8422	8798
C*	BNY	8799	9175
C*	MGNR	9176	9552
C*	EMH	9553	9929
C*	MLK	9930	10306
C*	LMC	10307	10683
C*	MMP	10684	11060
C*	DMP	11061	11437

C*END-

4311	84	0427	1726	SUC	20.43	37.4509N	118.6327W	5.55A	2.4D	26	177	0.12
4311	84	0427	1726	PHC	USGSMHD	P3	40.24					
4311	84	0427	1726	PHC	USGSWMDR	IPD0	21.65					
4311	84	0427	1726	PHC	USGSMNP	EP3	36.94					
4311	84	0427	1726	PHC	USGSCASR	IPD0	23.80					
4311	84	0427	1726	PHC	USGSCCLKR	IPD0	24.93					
4311	84	0427	1726	PHC	USGSBENR	IPD1	25.93					
4311	84	0427	1726	PHC	USGSEMH	IPD1	27.26					
4311	84	0427	1726	PHC	USGSLCC	IPD0	26.16					
4311	84	0427	1726	PHC	USGSLMC	EP3	28.37					

***** 10726 data cards not shown here *****

C#FINIS DSN=SL000085

Table SL000086

C#DSN=SL000086;SIZE=004718;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=055;STRT=000001;
 C*DATE: 19850430; 0; 840427B ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840427; 19840427; 37.452N; 37.452N; 118.632W; 118.632W; ; 4312;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840427 AT 17:31
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	1.0432	210.7576	2057	2574
CRCCR	37.4877N	118.7217W	2804	10.7349	291.8418	13692	14139
CSCHR	37.3658N	118.6870W	2365	11.2862	212.7257	8045	8554
CCASR	37.5748N	118.5515W	2107	16.3224	33.3999	3157	3518
CORCR	37.6353N	118.6560W	2301	20.4885	352.5681	7545	8044
CCLKR	37.5902N	118.8242W	2630	26.3045	305.6448	4101	4522
CCLK	37.5902N	118.8242W	2630	26.3045	305.6448	2575	3156
CRSM	37.5107N	118.8822W	3680	28.5923	283.2170	9137	9718
CBENR	37.7155N	118.5733W	2463	29.9106	12.6631	4523	4836
CDOE	37.6387N	118.8355W	2220	30.6664	312.4360	10782	11363
CCVM	37.6098N	118.8733W	2260	32.0419	303.0979	14722	15303
CCSR	37.6777N	118.8183W	2122	32.4724	320.3560	15304	15885
CLLK	37.5788N	118.9050W	3030	33.4719	294.8545	3519	4100
CGRP	37.6265N	118.9013W	2208	35.6614	302.8474	17212	17700
CLCCR	37.6105N	118.9158W	2550	36.1356	299.1013	12528	13109
CLCC	37.6105N	118.9158W	2550	36.1356	299.1013	5320	5901
CMDW	37.6313N	118.9162W	2350	37.3453	302.1528	16468	16836
CCHS	37.6550N	118.9045W	2420	37.7486	306.5767	15886	16467
CYMC	37.6255N	118.9362W	2340	38.9281	299.6086	17701	18101
CCSW	37.6442N	118.9282W	2280	39.2388	302.8765	18102	18431
CBNY	37.6408N	118.9358W	2325	39.7526	301.7590	18432	19013
CSHLR	37.6167N	118.9550W	2530	40.3108	296.9348	11946	12527
CSHL	37.6167N	118.9550W	2530	40.3108	296.9348	8555	9136
CMGMR	37.8133N	118.6955W	2472	40.6097	350.0081	6484	6962
CEMH	37.6663N	118.9392W	2495	41.6158	304.7893	4837	5319
CTAC	37.6317N	118.9650W	2398	42.0650	298.2625	9719	10300
CMLK	37.6643N	118.9750W	2670	44.8314	301.6487	10301	10781
CLMC	37.7288N	118.9465W	2540	46.5184	311.2209	5902	6483
CMMP	37.6100N	119.0280W	2870	47.4200	291.6814	16837	17211

CDMP	37.7080N	119.0458W	2550	54.0748	301.6230	14140	14721
CLULR	38.0523N	119.1803W	2243	90.1924	317.4287	13110	13691
CMMCR	38.3608N	119.1283W	2548	114.7405	331.2241	6963	7544
CMHD	37.1235N	119.8923W	180	144.9800	255.4853	1475	2056
CWKT	35.7940N	118.4425W	890	185.9379	173.4614	11364	11945
CIRG1	0.0000	0.0000	0	13841.1992	107.4109	893	1474
CWWVB	0.0000	0.0000	0	13841.1992	107.4109	311	892

C*

C* ORIGINAL WAVEFORM CARDS

C4312	84	0427	1731	WFC	USGSWWVB		17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSIRG1		17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSMHD	37.1235N 119.8923W 180	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSWMDR	37.4435N 118.6370W 1683	17	31	15.99	100	82	16
C4312	84	0427	1731	WFC	USGSCCLK	37.5902N 118.8242W 2630	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSCASR	37.5748N 118.5515W 2107	17	31	18.04	100	57	16
C4312	84	0427	1731	WFC	USGSLLK	37.5788N 118.9050W 3030	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSCCLKR	37.5902N 118.8242W 2630	17	31	19.30	100	67	16
C4312	84	0427	1731	WFC	USGSBENR	37.7155N 118.5733W 2463	17	31	20.46	100	49	16
C4312	84	0427	1731	WFC	USGSEMH	37.6663N 118.9392W 2495	17	31	21.53	100	76	16
C4312	84	0427	1731	WFC	USGSLCC	37.6105N 118.9158W 2550	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSLMC	37.7288N 118.9465W 2540	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSMGMR	37.8133N 118.6955W 2472	17	31	22.28	100	76	16
C4312	84	0427	1731	WFC	USGSMCCR	38.3608N 119.1283W 2548	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSORCR	37.6353N 118.6560W 2301	17	31	18.89	100	79	16
C4312	84	0427	1731	WFC	USGSSCHR	37.3658N 118.6870W 2365	17	31	17.26	100	81	16
C4312	84	0427	1731	WFC	USGSSHL	37.6167N 118.9550W 2530	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSRSM	37.5107N 118.8822W 3680	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSTAC	37.6317N 118.9650W 2398	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSMKL	37.6643N 118.9750W 2670	17	31	21.92	100	76	16
C4312	84	0427	1731	WFC	USGSDOE	37.6387N 118.8355W 2220	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSWKT	35.7940N 118.4425W 890	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSSHLR	37.6167N 118.9550W 2530	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSLCCR	37.6105N 118.9158W 2550	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSLULR	38.0523N 119.1803W 2243	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSRCCR	37.4877N 118.7217W 2804	17	31	16.94	100	71	16
C4312	84	0427	1731	WFC	USGSDMP	37.7080N 119.0458W 2550	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSCVM	37.6098N 118.8733W 2260	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSCSR	37.6777N 118.8183W 2122	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSCSH	37.6550N 118.9045W 2420	17	31	5.78	100	92	16
C4312	84	0427	1731	WFC	USGSMDW	37.6313N 118.9162W 2350	17	31	20.85	100	58	16
C4312	84	0427	1731	WFC	USGSMMP	37.6100N 119.0280W 2870	17	31	22.05	100	59	16
C4312	84	0427	1731	WFC	USGSGRP	37.6265N 118.9013W 2208	17	31	20.62	100	77	16
C4312	84	0427	1731	WFC	USGSYMC	37.6255N 118.9362W 2340	17	31	21.02	100	63	16
C4312	84	0427	1731	WFC	USGSCSW	37.6442N 118.9282W 2280	17	31	21.14	100	52	16
C4312	84	0427	1731	WFC	USGSBNY	37.6408N 118.9358W 2325	17	31	5.78	100	92	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	623	644
C*	STA	645	656
C*	SAT	657	688
C*	SPC	689	1133
C*	CQ1	1134	1151

C* CQ2 1152 1181
 C* CQ3 1182 1241
 C* WFC 1242 1252
 C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*
 C* LINES
 C* STATION START END
 C*
 C* WMDR 1253 1567
 C* RCCR 1568 1882
 C* SCHR 1883 2197
 C* CASR 2198 2512
 C* ORCR 2513 2827
 C* CLKR 2828 3142
 C* BENR 3143 3457
 C* GRP 3458 3772
 C* LCCR 3773 4087
 C* MDW 4088 4402
 C* YMC 4403 4717

C*END-----
 4312 84 0427 1731 SUC 24.77 37.4516N 118.6322W 5.48A 1.6D 21 177 0 .11
 4312 84 0427 1731 PHC USGSWMDR IPD0 25.98
 4312 84 0427 1731 PHC USGSCCLK IPD0 29.27
 4312 84 0427 1731 PHC USGSCASR IPD0 28.14
 4312 84 0427 1731 PHC USGSCCLKR IPD1 29.27
 4312 84 0427 1731 PHC USGSBENR EPU2 30.25
 4312 84 0427 1731 PHC USGSEMH EPD3 31.61
 4312 84 0427 1731 PHC USGSLCC IPD0 30.49
 4312 84 0427 1731 PHC USGSMGMR IPD1 32.38
 4312 84 0427 1731 PHC USGSORCR IPD0 28.85

***** 4085 data cards not shown here *****

C#FINIS DSN=SL000086

Table SL000087

C#DSN=SL000087;SIZE=017972;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=056;STRT=000001;
 C*DATE: 19850430; 0; 840501A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840501; 19840501; 37.463N; 37.463N; 118.828W; 118.828W; ; 4651;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840501 AT 09:50
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	8.0315	311.1641	117728	118608
CRCCR	37.4877N	118.7217W	2804	12.1385	76.9397	125290	126078
CCLKR	37.5902N	118.8242W	2630	14.0843	1.6726	109641	110425
CCLK	37.5902N	118.8242W	2630	14.0843	1.6726	75042	75922
CLLK	37.5788N	118.9050W	3030	15.4268	326.1897	108760	109640
CCVM	37.6098N	118.8733W	2260	17.0148	342.7146	130368	131149
CSCHR	37.3658N	118.6870W	2365	19.0164	124.4067	115966	116846
CLCCR	37.6105N	118.9158W	2550	19.0330	329.0559	124409	125289
CLCC	37.6105N	118.9158W	2550	19.0330	329.0559	111962	112741
CDOE	37.6387N	118.8355W	2220	19.4602	357.5083	120106	120884
CGRP	37.6265N	118.9013W	2208	19.8525	335.6897	135024	135904
CMDW	37.6313N	118.9162W	2350	21.0590	332.1719	133472	134249
CWMDR	37.4435N	118.6370W	1683	21.3641	95.7686	74260	75041
CYMC	37.6255N	118.9362W	2340	21.6509	326.1567	135905	136682
CSHLR	37.6167N	118.9550W	2530	22.1259	320.2407	123528	124408
CSHL	37.6167N	118.9550W	2530	22.1259	320.2407	116847	117727
CCHS	37.6550N	118.9045W	2420	22.8913	338.1282	132696	133471
CCSW	37.6442N	118.9282W	2280	22.9496	330.8816	136683	137458
CBNY	37.6408N	118.9358W	2325	23.0511	328.5889	137459	138235
CCSR	37.6777N	118.8183W	2122	23.7778	2.5754	131150	131924
CTAC	37.6317N	118.9650W	2398	24.1132	320.7288	118609	119224
CEMH	37.6663N	118.9392W	2495	25.6806	331.1519	111188	111961
CORCR	37.6353N	118.6560W	2301	27.0131	45.1052	115085	115965
CMMP	37.6100N	119.0280W	2870	27.5856	306.1384	134250	135023
CMLK	37.6643N	118.9750W	2670	27.6459	323.6721	119225	120105
CSKI	37.6530N	119.0238W	2660	30.2925	313.9465	131925	132695
CLMC	37.7288N	118.9465W	2540	32.2319	335.8167	112742	113508
CCASR	37.5748N	118.5515W	2107	33.1678	68.0913	107989	108759
CDMP	37.7080N	119.0458W	2550	36.3738	318.1682	129603	130367

CBENR	37.7155N	118.5733W	2463	39.7937	45.4180	110426	111187
CMGNR	37.8133N	118.6955W	2472	41.4522	20.8284	113509	114389
CMNPN	37.4150N	119.7283W	1000	100.3974	266.9731	102882	103762
CMNP	37.4150N	119.7283W	1000	100.3974	266.9731	102167	102881
CMMCR	38.3608N	119.1283W	2548	104.8031	341.3894	114390	115084
CFRI	36.9917N	119.7083W	119	111.1076	241.9718	107287	107988
CMAT	37.8733N	119.8667W	1353	124.2263	291.4248	98829	99523
CMHD	37.1235N	119.8923W	180	124.3699	252.4092	46254	46948
CMYL	37.3780N	120.4197W	84	177.4960	266.9658	46949	47829
CMST	37.9045N	120.4048W	366	182.2079	285.5435	105525	106405
CWKT	35.7940N	118.4425W	890	190.8891	166.9771	121766	122646
CPWM	36.4328N	120.2110W	72	192.0356	233.4218	126079	126959
CPHB	36.2488N	120.0827W	100	194.4560	226.0305	126960	127840
CWCH	35.8830N	118.0747W	2475	195.0357	154.4707	120885	121765
CMCH	38.0187N	120.5095W	475	197.0305	288.1741	99524	100404
CMOY	37.9000N	120.5673W	176	199.5746	284.0137	103763	104643
CMCU	37.9727N	120.6170W	336	206.9900	285.8022	100405	101285
CMRF	38.2453N	120.5207W	799	207.3769	294.6614	104644	105524
CPKE	36.0615N	120.1090W	288	211.5608	222.5001	128722	129602
CPDR	36.3357N	120.3687W	488	212.6515	233.9019	127841	128721
CWOF	35.5357N	118.7125W	1341	215.3661	176.5701	122647	123527
CPAR	36.2492N	120.3420W	485	216.1752	231.3686	18062	18942
CSRT	35.6918N	117.7493W	698	231.2668	148.6257	106406	107286
CBRM	36.8450N	120.8237W	372	232.6924	252.8776	61045	61925
CMNH	38.1458N	120.8137W	219	233.6139	288.8594	101286	102166
CPCR	36.0938N	120.4347W	296	235.2578	229.6371	17181	18061
CBMS	36.6630N	120.7918W	811	236.1994	247.9264	30396	31276
CPCA	35.9317N	120.3370W	1189	239.6656	224.6403	14538	15418
CPSR	35.8578N	120.2802W	552	241.3437	222.1889	9252	10132
CPMR	35.7848N	120.2357W	512	244.2621	220.0378	7490	8370
CAOD	38.6148N	120.7285W	520	247.0981	301.0657	55759	56639
CPGH	35.8310N	120.3528W	433	249.0507	223.1064	10133	11013
CADW	38.4392N	120.8482W	251	249.5407	295.6487	49592	50472
CPPF	35.8818N	120.4135W	469	249.6646	225.1337	13657	14537
CPAG	35.7320N	120.2493W	482	249.7985	219.4315	6609	7489
CPSM	36.0697N	120.5947W	988	250.7934	231.8098	18943	19823
CPHA	35.8360N	120.3985W	455	252.1585	224.0395	11014	11894
CPHR	36.3730N	120.8183W	732	252.8449	241.3784	21586	22466
CPST	35.9288N	120.5083W	573	253.6815	227.6620	15419	16299
CPTR	35.6547N	120.2112W	643	253.9626	217.4492	5728	6608
CPHGV	35.8760N	120.4835W	792	255.7121	226.2657	12776	13656
CHSL	37.0193N	121.0855W	520	256.2439	258.9424	94424	95304
CPMCV	35.7247N	120.3705W	488	259.2151	221.6271	8371	9251
CPPT	36.1083N	120.7212W	506	259.4854	234.4864	19824	20704
CPMP	36.2152N	120.7948W	784	259.5886	237.6859	20705	21585
CTBM	35.1358N	118.5968W	1237	261.1399	174.3276	2204	3084
CBAVZ	36.6458N	121.0298W	604	261.6367	249.7215	32158	33038
CBAVV	36.6458N	121.0298W	604	261.6367	249.7215	31277	32157
CPWK	35.8145N	120.5112W	503	262.7441	225.6466	11895	12775
CHCP	37.1945N	121.1847W	513	264.1558	263.5408	80328	81208
CBBG	36.5783N	121.0385W	1097	265.2642	248.2716	29515	30395
CALA	38.5667N	120.9562W	293	266.6370	297.2688	53997	54877
CPBW	36.3150N	120.9292W	381	266.8259	241.4309	22467	23347
CBEM	36.6613N	121.0960W	488	267.9851	250.6142	40087	40967
CPIV	35.9065N	120.6823W	497	269.9580	230.0466	16300	17180
CBRV	36.4248N	121.0183W	541	270.0898	244.7220	26872	27752

CBBN	36.5100N	121.0755W	448	271.9990	247.1046	28634	29514
CARJ	38.6865N	120.9563W	460	273.0276	299.7485	57521	58401
CPSH	35.5908N	120.4153W	390	273.8657	220.3245	4847	5727
CHQRV	36.8337N	121.2127W	536	274.7334	255.2894	34801	35681
CBEH	36.6647N	121.1742W	342	276.0986	251.2887	40968	41848
CCMP	37.3577N	121.3085W	799	276.4666	267.5862	70736	71616
CHPLV	37.0522N	121.2900W	152	278.0027	260.5811	35682	36562
CAFH	39.0418N	120.7913W	1064	280.1970	308.6670	51354	52234
CBVL	36.5752N	121.1890W	510	281.0391	249.4725	36563	37443
CPLO	36.2465N	121.0425W	308	281.6118	241.2941	23348	24228
CBPI	36.4900N	121.1735W	329	282.9473	247.5499	27753	28633
CBHR	36.7278N	121.2638W	213	283.4482	253.2800	45373	46253
CCOS	37.5085N	121.3740W	1020	283.5239	271.0193	71617	72497
CHLT	36.8845N	121.3082W	183	283.6875	256.9375	90019	90899
CHJS	36.8165N	121.2987W	215	284.4949	255.4073	88257	89137
CBSCV	36.6417N	121.2598W	323	285.9678	251.4160	33039	33919
CBLR	36.6660N	121.2727W	232	286.4744	252.0205	41849	42729
CAFD	38.9480N	120.9723W	549	290.1208	304.5649	50473	51353
CBSL	36.7755N	121.3493W	155	291.1326	254.8191	42730	43610
CHFE	36.9833N	121.4015W	323	291.5859	259.4990	82971	83851
CBCG	36.7092N	121.3433W	305	292.5393	253.3914	44492	45372
CBJO	36.6108N	121.3135W	1052	292.7559	251.1516	37444	38324
CAHR	38.8543N	121.0705W	354	293.5491	301.6768	53116	53996
CBSGV	36.4138N	121.2537W	192	294.5254	246.6870	25991	26871
CHGS	37.0958N	121.4472W	778	294.5698	262.0659	85614	86494
CHPH	36.8563N	121.4062W	122	295.0457	256.8242	91781	92661
CHKR	36.9017N	121.4260W	66	296.0728	257.8716	89138	90018
CCMM	37.4557N	121.4937W	1117	296.8196	269.8459	69855	70735
CCST	37.6392N	121.4982W	205	297.9238	273.7522	73379	74259
CARR	38.7653N	121.1718W	127	298.2681	298.9207	58402	59282
CPAN	35.7797N	120.9073W	451	298.4226	231.0537	3085	3965
CBVY	36.7493N	121.4133W	585	298.7915	254.6383	43611	44491
CHCA	37.0253N	121.4837W	332	299.7886	260.6934	77685	78565
CHFH	36.8882N	121.4688W	101	301.0562	257.7832	83852	84732
CPJLV	36.0898N	121.1555W	290	301.2969	239.5248	3966	4846
CCAQV	37.3493N	121.5327W	628	301.4509	267.6096	63688	64568
CHSP	37.1152N	121.5157W	850	301.8386	262.6704	95305	96185
CBJC	36.5470N	121.3922W	207	303.4084	250.4172	39206	40086
CHOR	36.9172N	121.5077W	98	304.6260	258.5479	90900	91780
CHSF	36.8120N	121.4995W	340	306.3184	256.3711	93543	94423
CHFP	36.7537N	121.4905W	705	306.9675	255.1516	84733	85613
CARW	38.9563N	121.1622W	320	308.2754	302.4749	59283	60163
CAPR	38.8770N	121.2172W	133	308.8584	300.4836	56640	57520
CHBT	36.8502N	121.5507W	98	310.8938	257.3792	76804	77684
CHCR	36.9577N	121.5835W	241	312.0505	259.6646	81209	82089
CBSRV	36.6665N	121.5187W	395	312.6519	253.5814	33920	34800
CCAD	37.1638N	121.6258W	207	313.3713	263.9331	61926	62806
CCML	37.4773N	121.6515W	1076	314.3882	270.2900	68974	69854
CHAZ	36.8847N	121.5908W	122	314.4358	258.2383	75923	76803
CHJG	36.7980N	121.5738W	171	314.7388	256.4512	87376	88256
CAFR	38.7923N	121.3485W	31	317.0310	297.6748	52235	53115
CAAR	39.2762N	121.0255W	930	317.0491	309.4094	47830	48710
CCCO	37.2577N	121.6725W	366	317.5984	265.8987	64569	65449
CHGW	37.0170N	121.6503W	133	318.2617	261.0701	86495	87375
CALN	38.9297N	121.2878W	54	318.6357	300.6746	54878	55758
CBPP	36.1687N	121.3780W	1591	318.8167	243.1550	24229	25109

CHCB	36.9313N	121.6605W	219	321.0312	259.4248	78566	79446
CCMN	37.6275N	121.7083W	245	321.1934	273.2488	65450	66330
CHDL	36.8353N	121.6440W	204	321.4070	257.4958	82090	82970
CAVR	39.0245N	121.2708W	114	322.5930	302.4590	60164	61044
CHPR	36.9532N	121.6950W	94	324.3684	259.9714	92662	93542
CJRR	37.0545N	121.7268W	408	326.0642	262.0247	97067	97947
CCMH	37.3595N	121.7563W	518	326.2852	267.9900	67212	68092
CBHS	36.3558N	121.5398W	646	326.4822	247.8603	25110	25990
CHCO	36.8885N	121.7057W	129	326.8948	258.7681	79447	80327
CBPC	36.5720N	121.6260W	183	327.2153	252.4066	38325	39205
CCSC	37.2852N	121.7725W	128	328.5017	266.5671	72498	73378
CCALV	37.4512N	121.7992W	265	330.8372	269.7756	62807	63687
CCVL	37.6263N	121.8357W	245	335.3474	273.0889	66331	67211
CCMJ	37.5208N	121.8705W	498	338.8171	271.0830	68093	68973
CJPL	36.9770N	121.8322W	158	338.9883	260.8608	96186	97066
CJTG	37.0285N	121.8763W	253	342.9673	261.9336	97948	98828
CABR	39.1352N	121.4868W	24	349.5896	302.0479	48711	49591
CIRG1	0.0000	0.0000	0	13862.2891	107.3887	1323	2203
CWWVB	0.0000	0.0000	0	13862.2891	107.3887	442	1322

C*

C* ORIGINAL WAVEFORM CARDS

C4651	84 05 1	950	WFC	USGSWWVB		9 50	4.16	100	140	16	
C4651	84 05 1	950	WFC	USGSIRG1		9 50	4.16	100	140	16	
C4651	84 05 1	950	WFC	USGSTBM	35.1358N 118.5968W	1237	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPAN	35.7797N 120.9073W	451	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPJLV	36.0898N 121.1555W	290	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPSH	35.5908N 120.4153W	390	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPTR	35.6547N 120.2112W	643	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPAG	35.7320N 120.2493W	482	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPMR	35.7848N 120.2357W	512	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPMCV	35.7247N 120.3705W	488	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPSR	35.8578N 120.2802W	552	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPGH	35.8310N 120.3528W	433	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPHA	35.8360N 120.3985W	455	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPWK	35.8145N 120.5112W	503	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPHGV	35.8760N 120.4835W	792	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPPF	35.8818N 120.4135W	469	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPCA	35.9317N 120.3370W	1189	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPST	35.9288N 120.5083W	573	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPIV	35.9065N 120.6823W	497	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPCR	36.0938N 120.4347W	296	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPAR	36.2492N 120.3420W	485	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPSM	36.0697N 120.5947W	988	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPPT	36.1083N 120.7212W	506	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPMP	36.2152N 120.7948W	784	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPHR	36.3730N 120.8183W	732	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPBW	36.3150N 120.9292W	381	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSPLQ	36.2465N 121.0425W	308	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBPP	36.1687N 121.3780W	1591	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBHS	36.3558N 121.5398W	646	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBSGV	36.4138N 121.2537W	192	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBRV	36.4248N 121.0183W	541	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBPI	36.4900N 121.1735W	329	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBBN	36.5100N 121.0755W	448	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBBG	36.5783N 121.0385W	1097	9 50	4.16	100	140	16
C4651	84 05 1	950	WFC	USGSBMS	36.6630N 120.7918W	811	9 50	4.16	100	140	16

C4651	84	05	1	950	WFC	USGSBAVV	36.6458N	121.0298W	604	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBAVZ	36.6458N	121.0298W	604	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBSCV	36.6417N	121.2598W	323	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBSRV	36.6665N	121.5187W	395	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHQRV	36.8337N	121.2127W	536	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHPLV	37.0522N	121.2900W	152	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBVL	36.5752N	121.1890W	510	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBJO	36.6108N	121.3135W	1052	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBPC	36.5720N	121.6260W	183	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBJC	36.5470N	121.3922W	207	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBEM	36.6613N	121.0960W	488	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBEH	36.6647N	121.1742W	342	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBLR	36.6660N	121.2727W	232	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBSL	36.7755N	121.3493W	155	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBVY	36.7493N	121.4133W	585	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBCG	36.7092N	121.3433W	305	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBHR	36.7278N	121.2638W	213	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMHD	37.1235N	119.8923W	180	9	50	33.88	100	110	16
C4651	84	05	1	950	WFC	USGSMYL	37.3780N	120.4197W	84	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAAR	39.2762N	121.0255W	930	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSABR	39.1352N	121.4868W	24	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSADW	38.4392N	120.8482W	251	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAFD	38.9480N	120.9723W	549	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAFH	39.0418N	120.7913W	1064	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAFR	38.7923N	121.3485W	31	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAHR	38.8543N	121.0705W	354	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSALA	38.5667N	120.9562W	293	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSALN	38.9297N	121.2878W	54	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAOD	38.6148N	120.7285W	520	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAPR	38.8770N	121.2172W	133	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSARJ	38.6865N	120.9563W	460	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSARR	38.7653N	121.1718W	127	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSARW	38.9563N	121.1622W	320	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSAVR	39.0245N	121.2708W	114	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSBRM	36.8450N	120.8237W	372	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCAD	37.1638N	121.6258W	207	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCALV	37.4512N	121.7992W	265	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCAOV	37.3493N	121.5327W	628	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCCO	37.2577N	121.6725W	366	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCMN	37.6275N	121.7083W	245	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCVL	37.6263N	121.8357W	245	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCMH	37.3595N	121.7563W	518	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCMJ	37.5208N	121.8705W	498	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCML	37.4773N	121.6515W	1076	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCMM	37.4557N	121.4937W	1117	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCMP	37.3577N	121.3085W	799	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCOS	37.5085N	121.3740W	1020	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCSC	37.2852N	121.7725W	128	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSCST	37.6392N	121.4982W	205	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSWMDR	37.4435N	118.6370W	1683	9	50	20.04	100	124	16
C4651	84	05	1	950	WFC	USGSCCLK	37.5902N	118.8242W	2630	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHAZ	36.8847N	121.5908W	122	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHBT	36.8502N	121.5507W	98	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHCA	37.0253N	121.4837W	332	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHCB	36.9313N	121.6605W	219	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHCO	36.8885N	121.7057W	129	9	50	4.16	100	140	16

C4651	84	05	1	950	WFC	USGSHCP	37.1945N	121.1847W	513	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHCR	36.9577N	121.5835W	241	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHDL	36.8353N	121.6440W	204	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHFE	36.9833N	121.4015W	323	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHFH	36.8882N	121.4688W	101	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHFP	36.7537N	121.4905W	705	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHGS	37.0958N	121.4472W	778	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHGW	37.0170N	121.6503W	133	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHJG	36.7980N	121.5738W	171	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHJS	36.8165N	121.2987W	215	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHKR	36.9017N	121.4260W	66	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHLT	36.8845N	121.3082W	183	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHOR	36.9172N	121.5077W	98	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHPH	36.8563N	121.4062W	122	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHPR	36.9532N	121.6950W	94	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHSF	36.8120N	121.4995W	340	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHSL	37.0193N	121.0855W	520	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSHSP	37.1152N	121.5157W	850	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSJPL	36.9770N	121.8322W	158	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSJRR	37.0545N	121.7268W	408	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSJTG	37.0285N	121.8763W	253	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMAT	37.8733N	119.8667W	1353	9	50	33.84	100	110	16
C4651	84	05	1	950	WFC	USGSMCH	38.0187N	120.5095W	475	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMCU	37.9727N	120.6170W	336	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMNH	38.1458N	120.8137W	219	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMNP	37.4150N	119.7283W	1000	9	50	30.64	100	114	16
C4651	84	05	1	950	WFC	USGSMNPB	37.4150N	119.7283W	1000	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMOY	37.9000N	120.5673W	176	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMRF	38.2453N	120.5207W	799	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMST	37.9045N	120.4048W	366	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSSRT	35.6918N	117.7493W	698	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSFRI	36.9917N	119.7083W	119	9	50	32.72	100	111	16
C4651	84	05	1	950	WFC	USGSCASR	37.5748N	118.5515W	2107	9	50	21.76	100	122	16
C4651	84	05	1	950	WFC	USGSLLK	37.5788N	118.9050W	3030	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSLCKR	37.5902N	118.8242W	2630	9	50	19.56	100	125	16
C4651	84	05	1	950	WFC	USGSBENR	37.7155N	118.5733W	2463	9	50	23.20	100	121	16
C4651	84	05	1	950	WFC	USGSEMH	37.6663N	118.9392W	2495	9	50	21.32	100	123	16
C4651	84	05	1	950	WFC	USGSLCC	37.6105N	118.9158W	2550	9	50	20.24	100	124	16
C4651	84	05	1	950	WFC	USGSLMC	37.7288N	118.9465W	2540	9	50	22.44	100	122	16
C4651	84	05	1	950	WFC	USGSMGMR	37.8133N	118.6955W	2472	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSMPCR	38.3608N	119.1283W	2548	9	50	33.88	100	110	16
C4651	84	05	1	950	WFC	USGSORCR	37.6353N	118.6560W	2301	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSSCHR	37.3658N	118.6870W	2365	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSSHL	37.6167N	118.9550W	2530	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSRSM	37.5107N	118.8822W	3680	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSTAC	37.6317N	118.9650W	2398	9	50	20.92	100	98	16
C4651	84	05	1	950	WFC	USGSMK	37.6643N	118.9750W	2670	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSDOE	37.6387N	118.8355W	2220	9	50	20.44	100	124	16
C4651	84	05	1	950	WFC	USGSWCH	35.8830N	118.0747W	2475	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSWKT	35.7940N	118.4425W	890	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSWOF	35.5357N	118.7125W	1341	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSSHLR	37.6167N	118.9550W	2530	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSLCCR	37.6105N	118.9158W	2550	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSRCCR	37.4877N	118.7217W	2804	9	50	18.88	100	125	16
C4651	84	05	1	950	WFC	USGSPWM	36.4328N	120.2110W	72	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSPHB	36.2488N	120.0827W	100	9	50	4.16	100	140	16

C4651	84	05	1	950	WFC	USGSPDR	36.3357N	120.3687W	488	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSPKE	36.0615N	120.1090W	288	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSDMP	37.7080N	119.0458W	2550	9	50	22.76	100	121	16
C4651	84	05	1	950	WFC	USGSCVM	37.6098N	118.8733W	2260	9	50	20.00	100	124	16
C4651	84	05	1	950	WFC	USGSCSR	37.6777N	118.8183W	2122	9	50	21.16	100	123	16
C4651	84	05	1	950	WFC	USGSSKI	37.6530N	119.0238W	2660	9	50	21.76	100	122	16
C4651	84	05	1	950	WFC	USGSCHS	37.6550N	118.9045W	2420	9	50	20.92	100	123	16
C4651	84	05	1	950	WFC	USGSMDW	37.6313N	118.9162W	2350	9	50	20.56	100	124	16
C4651	84	05	1	950	WFC	USGSMMP	37.6100N	119.0280W	2870	9	50	21.24	100	123	16
C4651	84	05	1	950	WFC	USGSGRP	37.6265N	118.9013W	2208	9	50	4.16	100	140	16
C4651	84	05	1	950	WFC	USGSYMC	37.6255N	118.9362W	2340	9	50	20.60	100	124	16
C4651	84	05	1	950	WFC	USGSCSW	37.6442N	118.9282W	2280	9	50	20.88	100	123	16
C4651	84	05	1	950	WFC	USGSBNY	37.6408N	118.9358W	2325	9	50	20.84	100	123	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

	LINES	
ITEM	START	END
PHC	883	911
STA	912	935
SAT	936	1026
SPC	1027	2551
CQ1	2552	2557
CQ2	2558	2659
CQ3	2660	2791
WFC	2792	2814

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

	LINES	
STATION	START	END
RCCR	2815	3473
CLK	3474	4132
CVM	4133	4791
SCHR	4792	5450
LCC	5451	6109
DOE	6110	6768
MDW	6769	7427
WMDR	7428	8086
YMC	8087	8745
SHL	8746	9404
CHS	9405	10063
CSW	10064	10722
BNY	10723	11381
CSR	11382	12040
TAC	12041	12699
EMH	12700	13358
MMP	13359	14017
MLK	14018	14676
SKI	14677	15335
LMC	15336	15994
CASR	15995	16653
DMP	16654	17312
BENR	17313	17971

C*END-----

4651	84	05	1	950	SUC	26.40	37.4629N	118.8279W	7.81A	3.0D	28	105	9	.12
4651	84	05	1	950	PHC	USGSMHD	EPU3	43.78						
4651	84	05	1	950	PHC	USGSWMDR	IPD0	29.97						
4651	84	05	1	950	PHC	USGSCLK	IPD0	29.55						
4651	84	05	1	950	PHC	USGSMAT	EPU3	43.60						
4651	84	05	1	950	PHC	USGSMNP	EPU3	40.14						
4651	84	05	1	950	PHC	USGSFRI	EPD3	42.44						
4651	84	05	1	950	PHC	USGSCASR	IPD0	31.74						
4651	84	05	1	950	PHC	USGSCLKR	IPD0	29.56						
4651	84	05	1	950	PHC	USGSBENR	IPD1	32.89						

***** 17079 data cards not shown here *****

C#FINIS DSN=SL000087

Table SL000088

C#DSN=SL000088;SIZE=018800;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=057;STRT=000001;
 C*DATE: 19850430; 0; 840505A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840505; 19840505; 37.488N; 37.488N; 118.802W; 118.802W; ; 4932;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840505 AT 07:19
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	9.3092	285.4355	128182	129131
CCLK	37.5902N	118.8242W	2630	11.5470	347.4153	82804	83753
CCLKR	37.5902N	118.8242W	2630	11.5470	347.4153	119223	120172
CLLK	37.5788N	118.9050W	3030	15.2541	311.0078	118273	119222
CCVM	37.6098N	118.8733W	2260	15.6299	329.2881	143055	143905
CDOE	37.6387N	118.8355W	2220	17.0557	347.2197	130923	131771
CLCC	37.6105N	118.9158W	2550	18.5553	316.7507	121848	122696
CLCCR	37.6105N	118.9158W	2550	18.5553	316.7507	135572	136521
CSCHR	37.3658N	118.6870W	2365	18.6166	136.7253	126383	127231
CGRP	37.6265N	118.9013W	2208	18.8888	324.0110	149073	149920
CWMDR	37.4435N	118.6370W	1683	18.9865	105.1313	81954	82803
CMDW	37.6313N	118.9162W	2350	20.3192	321.1074	147385	148231
CCSR	37.6777N	118.8183W	2122	21.0276	354.9294	143906	144750
CYMC	37.6255N	118.9362W	2340	21.3257	315.3591	149921	150766
CCHS	37.6550N	118.9045W	2420	21.7038	328.1453	145590	146434
CSHLR	37.6167N	118.9550W	2530	22.2103	309.7441	134622	135571
CSHL	37.6167N	118.9550W	2530	22.2103	309.7441	127232	128181
CSHLN	37.6167N	118.9550W	2530	22.2103	309.7441	146435	147384
CCSW	37.6442N	118.9282W	2280	22.2686	320.7334	150767	151210
CBNY	37.6408N	118.9358W	2325	22.5305	318.4617	151211	152055
CORCR	37.6353N	118.6560W	2301	22.9572	44.9160	125433	126382
CTAC	37.6317N	118.9650W	2398	24.1327	311.0830	129132	130081
CEMH	37.6663N	118.9392W	2495	24.9424	322.1128	121006	121847
CMLK	37.6643N	118.9750W	2670	27.4136	315.2361	130082	130922
CMMP	37.6100N	119.0280W	2870	28.5733	298.1030	148232	149072
CCASR	37.5748N	118.5515W	2107	29.4427	71.0348	117432	118272
CSKI	37.6530N	119.0238W	2660	30.7191	306.3645	144751	145589
CLMC	37.7288N	118.9465W	2540	31.1045	328.7617	122697	123532
CBENR	37.7155N	118.5733W	2463	35.7376	45.3308	120173	121005

CDMP	37.7080N	119.0458W	2550	36.4591	311.7847	142222	143054
CMGNR	37.8133N	118.6955W	2472	37.8269	18.1963	123533	124482
CLULR	38.0523N	119.1803W	2243	75.2771	325.9419	136522	137471
CMMCR	38.3608N	119.1283W	2548	103.1460	339.3506	124483	125432
CMNPN	37.4150N	119.7283W	1000	103.5008	265.5059	111900	112681
CMNP	37.4150N	119.7283W	1000	103.5008	265.5059	111118	111899
CFRI	36.9917N	119.7083W	119	115.0144	241.4220	116482	117431
CMAT	37.8733N	119.8667W	1353	125.9789	289.7498	107504	108267
CMHD	37.1235N	119.8923W	180	128.0190	251.6068	47942	48703
CMYL	37.3780N	120.4197W	84	180.5835	266.1250	48704	49653
CMST	37.9045N	120.4048W	366	184.3082	284.4585	114582	115531
CWKT	35.7940N	118.4425W	890	192.9956	168.0142	132722	133671
CPWM	36.4328N	120.2110W	72	196.0567	233.2726	138422	139371
CWCH	35.8830N	118.0747W	2475	196.3416	155.5972	131772	132721
CPHB	36.2488N	120.0827W	100	198.5099	226.0341	139372	140321
CMCH	38.0187N	120.5095W	475	198.9687	287.1433	108268	109217
CMOY	37.9000N	120.5673W	176	201.7634	283.0391	112682	113631
CMRF	38.2453N	120.5207W	799	208.9031	293.6270	113632	114581
CMCU	37.9727N	120.6170W	336	209.0714	284.8435	109218	110167
CPKE	36.0615N	120.1090W	288	215.6076	222.5697	141272	142221
CPDR	36.3357N	120.3687W	488	216.6680	233.7581	140322	141271
CWOF	35.5357N	118.7125W	1341	218.0203	177.3843	133672	134621
CPAR	36.2492N	120.3420W	485	220.2119	231.2734	17542	18491
CSRT	35.6918N	117.7493W	698	232.1701	149.6062	115532	116481
CMNH	38.1458N	120.8137W	219	235.5063	287.9829	110168	111117
CBRM	36.8450N	120.8237W	372	236.3172	252.4357	63904	64853
CPCR	36.0938N	120.4347W	296	239.3044	229.5788	16592	17541
CBMS	36.6630N	120.7918W	811	239.9655	247.5676	28942	29891
CPCA	35.9317N	120.3370W	1189	243.7199	224.6662	13742	14691
CPSR	35.8578N	120.2802W	552	245.3907	222.2551	8042	8991
CAOD	38.6148N	120.7285W	520	248.1969	300.1624	58204	59153
CPMR	35.7848N	120.2357W	512	248.2969	220.1382	6142	7091
CADW	38.4392N	120.8482W	251	250.9996	294.7822	50604	51553
CPGH	35.8310N	120.3528W	433	253.1017	223.1559	8992	9941
CPPF	35.8818N	120.4135W	469	253.7200	225.1507	12792	13741
CPAG	35.7320N	120.2493W	482	253.8293	219.5394	5192	6141
CPSM	36.0697N	120.5947W	988	254.8277	231.7205	18492	19441
CPHA	35.8360N	120.3985W	455	256.2124	224.0736	9942	10891
CPHR	36.3730N	120.8183W	732	256.7556	241.1412	22292	23241
CPST	35.9288N	120.5083W	573	257.7354	227.6389	14692	15641
CPTR	35.6547N	120.2112W	643	257.9763	217.5862	4242	5191
CHSL	37.0193N	121.0855W	520	259.6572	258.4578	102754	103703
CPHGV	35.8760N	120.4835W	792	259.7676	226.2645	11842	12791
CPMCV	35.7247N	120.3705W	488	263.2610	221.6973	7092	8041
CPPT	36.1083N	120.7212W	506	263.4958	234.3591	20392	21341
CPMP	36.2152N	120.7948W	784	263.5601	237.5101	21342	22291
CTBM	35.1358N	118.5968W	1237	263.6787	175.0232	2342	3291
CBAVZ	36.6458N	121.0298W	604	265.3533	249.3717	30842	31791
CBAVV	36.6458N	121.0298W	604	265.3533	249.3717	29892	30841
CPWK	35.8145N	120.5112W	503	266.8005	225.6548	10892	11841
CHCP	37.1945N	121.1847W	513	267.3853	263.0132	87554	88503
CALA	38.5667N	120.9562W	293	267.9890	296.4490	56304	57253
CBBG	36.5783N	121.0385W	1097	269.0200	247.9467	27992	28941
CPBW	36.3150N	120.9292W	381	270.7356	241.2051	23242	24191
CBEM	36.6613N	121.0960W	488	271.6758	250.2603	41292	42241
CPIV	35.9065N	120.6823W	497	274.0039	229.9894	15642	16591

CARJ	38.6865N	120.9563W	460	274.2146	298.9363	60104	61053
CBBN	36.5100N	121.0755W	448	275.7847	246.8037	27042	27991
CPSH	35.5908N	120.4153W	390	277.9055	220.4099	3292	4241
CHQRV	36.8337N	121.2127W	536	278.2766	254.8830	34642	35591
CHQRE	36.8337N	121.2127W	536	278.2766	254.8830	35592	36541
CCMP	37.3577N	121.3085W	799	279.5164	267.0364	77204	78153
CBEH	36.6647N	121.1742W	342	279.7693	250.9362	42242	43191
CAFH	39.0418N	120.7913W	1064	280.7734	307.8469	52504	53453
CHPLE	37.0522N	121.2900W	152	281.3516	260.1143	37492	38441
CHPLV	37.0522N	121.2900W	152	281.3516	260.1143	36542	37491
CPSA	36.0253N	120.8883W	184	284.1104	235.0289	19442	20391
CBVL	36.5752N	121.1890W	510	284.7615	249.1498	38442	39391
CPLO	36.2465N	121.0425W	308	285.5239	241.0818	24192	25141
CAGI	38.8447N	120.9813W	305	285.5591	301.7544	54404	55353
CCOS	37.5085N	121.3740W	1020	286.4099	270.4470	79104	80053
CBPI	36.4900N	121.1735W	329	286.7209	247.2545	26092	27041
CBHR	36.7278N	121.2638W	213	287.0571	252.9111	46992	47941
CHLT	36.8845N	121.3082W	183	287.1726	256.5237	98004	98953
CHJS	36.8165N	121.2987W	215	288.0334	255.0132	96104	97053
CBSCN	36.6417N	121.2598W	323	289.6340	251.0739	32742	33691
CBSCV	36.6417N	121.2598W	323	289.6340	251.0739	31792	32741
CBLR	36.6660N	121.2727W	232	290.1223	251.6713	43192	44141
CAFD	38.9480N	120.9723W	549	290.9810	303.7832	51554	52503
CAHR	38.8543N	121.0705W	354	294.6060	300.9138	55354	56303
CBSL	36.7755N	121.3493W	155	294.6907	254.4411	44142	45091
CHFE	36.9833N	121.4015W	323	294.9761	259.0662	90404	91353
CBCG	36.7092N	121.3433W	305	296.1440	253.0325	46042	46991
CBJO	36.6108N	121.3135W	1052	296.4297	250.8205	39392	40341
CHGS	37.0958N	121.4472W	778	297.8582	261.6084	93254	94203
CBSGV	36.4138N	121.2537W	192	298.3208	246.4140	25142	26091
CHPH	36.8563N	121.4062W	122	298.5342	256.4272	99904	100853
CARR	38.7653N	121.1718W	127	299.5105	298.1804	61054	62003
CHKR	36.9017N	121.4260W	66	299.5234	257.4639	97054	98003
CCMM	37.4557N	121.4937W	1117	299.7620	269.3105	75304	76253
CCST	37.6392N	121.4982W	205	300.6716	273.1819	81004	81953
CBVY	36.7493N	121.4133W	585	302.3552	254.2719	45092	46041
CHCA	37.0253N	121.4837W	332	303.1316	260.2588	85654	86603
CCA0V	37.3493N	121.5327W	628	304.4976	267.1047	66754	67703
CHFH	36.8882N	121.4688W	101	304.5098	257.3833	91354	92303
CHSP	37.1152N	121.5157W	850	305.1016	262.2173	103704	104653
CBJC	36.5470N	121.3922W	207	307.1030	250.1065	40342	41291
CHOR	36.9172N	121.5077W	98	308.0510	258.1438	98954	99903
CARW	38.9563N	121.1622W	320	309.2786	301.7456	62004	62953
CHSF	36.8120N	121.4995W	340	309.8220	255.9939	101804	102753
CAPR	38.8770N	121.2172W	133	309.9961	299.7625	59154	60103
CHFP	36.7537N	121.4905W	705	310.5134	254.7890	92304	93253
CHBT	36.8502N	121.5507W	98	314.3616	256.9961	84704	85653
CHCR	36.9577N	121.5835W	241	315.4331	259.2578	88504	89453
CCMR	37.5947N	121.6370W	500	315.8862	272.1348	78154	79103
CBSRV	36.6665N	121.5187W	395	316.2495	253.2431	33692	34641
CCAD	37.1638N	121.6258W	207	316.5803	263.4836	64854	65803
CCML	37.4773N	121.6515W	1076	317.3079	269.7800	74354	75303
CAAR	39.2762N	121.0255W	930	317.5737	308.6831	49654	50603
CHAZ	36.8847N	121.5908W	122	317.8718	257.8501	83754	84703
CCBS	37.8177N	121.6405W	58	318.1255	276.5742	67704	68653
CHJG	36.7980N	121.5738W	171	318.2393	256.0830	95154	96103

CAFR	38.7923N	121.3485W	31	318.3564	296.9834	53454	54403
CALN	38.9297N	121.2878W	54	319.7610	299.9751	57254	58203
CCDVV	37.5663N	121.6802W	250	320.5989	271.5420	70554	71503
CCCO	37.2577N	121.6725W	366	320.7214	265.4355	68654	69603
CHGW	37.0170N	121.6503W	133	321.5886	260.6565	94204	95153
CAVR	39.0245N	121.2708W	114	323.5972	301.7622	62954	63903
CCSA	37.6737N	121.7042W	215	323.7864	273.6310	71504	72453
CJCB	37.1118N	121.6888W	192	324.2632	262.6125	104654	105603
CHCB	36.9313N	121.6605W	219	324.4221	259.0320	86604	87553
CHDL	36.8353N	121.6440W	204	324.8699	257.1240	89454	90403
CHPR	36.9532N	121.6950W	94	327.7378	259.5769	100854	101803
CCMH	37.3595N	121.7563W	518	329.3130	267.5195	73404	74353
CJRR	37.0545N	121.7268W	408	329.3518	261.6113	105604	106553
CCVA	37.6183N	121.7582W	201	329.4702	272.5010	137472	138421
CCSC	37.2852N	121.7725W	128	331.5947	266.1130	80054	81003
CCALV	37.4512N	121.7992W	265	333.7808	269.2954	65804	66753
CJST	37.2068N	121.7973W	149	335.0723	264.6636	106554	107503
CCMO	37.8113N	121.8025W	792	335.9722	276.1021	76254	77203
CCVL	37.6263N	121.8357W	245	338.1277	272.5869	72454	73403
CCDO	37.7300N	121.8353W	198	338.7812	274.5247	69604	70553
CWWVB	0.0000	0.0000	0	13860.1797	107.4031	442	1391
CIRG1	0.0000	0.0000	0	13860.1797	107.4031	1392	2341

C*

C* ORIGINAL WAVEFORM CARDS

C4932	84	05	5	719	WFC	USGSWWVB				7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSIRG1				7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSTBM	35.1358N	118.5968W	1237	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPSH	35.5908N	120.4153W	390	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPTR	35.6547N	120.2112W	643	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPAG	35.7320N	120.2493W	482	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPMR	35.7848N	120.2357W	512	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPMCV	35.7247N	120.3705W	488	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPSR	35.8578N	120.2802W	552	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPGH	35.8310N	120.3528W	433	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPHA	35.8360N	120.3985W	455	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPWK	35.8145N	120.5112W	503	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPHGV	35.8760N	120.4835W	792	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPPF	35.8818N	120.4135W	469	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPCA	35.9317N	120.3370W	1189	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPST	35.9288N	120.5083W	573	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPIV	35.9065N	120.6823W	497	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPCR	36.0938N	120.4347W	296	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPAR	36.2492N	120.3420W	485	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPSM	36.0697N	120.5947W	988	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPSA	36.0253N	120.8883W	184	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPPT	36.1083N	120.7212W	506	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPMP	36.2152N	120.7948W	784	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPHR	36.3730N	120.8183W	732	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPBW	36.3150N	120.9292W	381	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPLD	36.2465N	121.0425W	308	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBSGV	36.4138N	121.2537W	192	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBPI	36.4900N	121.1735W	329	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBBN	36.5100N	121.0755W	448	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBBG	36.5783N	121.0385W	1097	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBMS	36.6630N	120.7918W	811	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBAV	36.6458N	121.0298W	604	7	18	40.33	100	151	16

C4932	84	05	5	719	WFC	USGSBAVZ	36.6458N	121.0298W	604	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBSCV	36.6417N	121.2598W	323	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBSCN	36.6417N	121.2598W	323	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBSRV	36.6665N	121.5187W	395	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHQRV	36.8337N	121.2127W	536	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHQRE	36.8337N	121.2127W	536	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHPLV	37.0522N	121.2900W	152	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHPLE	37.0522N	121.2900W	152	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBVL	36.5752N	121.1890W	510	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBJD	36.6108N	121.3135W	1052	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBJC	36.5470N	121.3922W	207	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBEM	36.6613N	121.0960W	488	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBEH	36.6647N	121.1742W	342	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBLR	36.6660N	121.2727W	232	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBSL	36.7755N	121.3493W	155	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBVY	36.7493N	121.4133W	585	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBCG	36.7092N	121.3433W	305	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBHR	36.7278N	121.2638W	213	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMHD	37.1235N	119.8923W	180	7	19	10.35	100	121	16
C4932	84	05	5	719	WFC	USGSMYL	37.3780N	120.4197W	84	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAAR	39.2762N	121.0255W	930	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSADW	38.4392N	120.8482W	251	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAFD	38.9480N	120.9723W	549	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAFH	39.0418N	120.7913W	1064	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAFR	38.7923N	121.3485W	31	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAGI	38.8447N	120.9813W	305	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAHR	38.8543N	121.0705W	354	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSALA	38.5667N	120.9562W	293	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSALN	38.9297N	121.2878W	54	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAOD	38.6148N	120.7285W	520	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAPR	38.8770N	121.2172W	133	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSARJ	38.6865N	120.9563W	460	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSARR	38.7653N	121.1718W	127	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSARW	38.9563N	121.1622W	320	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSAVR	39.0245N	121.2708W	114	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBRM	36.8450N	120.8237W	372	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCAD	37.1638N	121.6258W	207	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCALV	37.4512N	121.7992W	265	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCAOV	37.3493N	121.5327W	628	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCBS	37.8177N	121.6405W	58	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCCO	37.2577N	121.6725W	366	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCDO	37.7300N	121.8353W	198	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCDVV	37.5663N	121.6802W	250	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCSA	37.6737N	121.7042W	215	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCVL	37.6263N	121.8357W	245	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCMH	37.3595N	121.7563W	518	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCML	37.4773N	121.6515W	1076	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCMM	37.4557N	121.4937W	1117	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCMO	37.8113N	121.8025W	792	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCMP	37.3577N	121.3085W	799	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCMR	37.5947N	121.6370W	500	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCOS	37.5085N	121.3740W	1020	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCSC	37.2852N	121.7725W	128	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCST	37.6392N	121.4982W	205	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSWMDR	37.4435N	118.6370W	1683	7	18	56.27	100	135	16
C4932	84	05	5	719	WFC	USGSCLK	37.5902N	118.8242W	2630	7	18	40.33	100	151	16

C4932	84	05	5	719	WFC	USGSHAZ	36.8847N	121.5908W	122	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHBT	36.8502N	121.5507W	98	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHCA	37.0253N	121.4837W	332	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHCB	36.9313N	121.6605W	219	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHCP	37.1945N	121.1847W	513	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHCR	36.9577N	121.5835W	241	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHDL	36.8353N	121.6440W	204	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHFE	36.9833N	121.4015W	323	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHFH	36.8882N	121.4688W	101	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHFP	36.7537N	121.4905W	705	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHGS	37.0958N	121.4472W	778	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHGW	37.0170N	121.6503W	133	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHJG	36.7980N	121.5738W	171	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHJS	36.8165N	121.2987W	215	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHKR	36.9017N	121.4260W	66	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHLT	36.8845N	121.3082W	183	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHOR	36.9172N	121.5077W	98	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHPH	36.8563N	121.4062W	122	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHPR	36.9532N	121.6950W	94	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHSF	36.8120N	121.4995W	340	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHSL	37.0193N	121.0855W	520	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSHSP	37.1152N	121.5157W	850	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSJCB	37.1118N	121.6888W	192	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSJRR	37.0545N	121.7268W	408	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSJST	37.2068N	121.7973W	149	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMAT	37.8733N	119.8667W	1353	7	19	10.01	100	121	16
C4932	84	05	5	719	WFC	USGSMCH	38.0187N	120.5095W	475	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMCU	37.9727N	120.6170W	336	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMNH	38.1458N	120.8137W	219	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMNP	37.4150N	119.7283W	1000	7	19	7.15	100	124	16
C4932	84	05	5	719	WFC	USGSMNPN	37.4150N	119.7283W	1000	7	19	7.15	100	124	16
C4932	84	05	5	719	WFC	USGSMOY	37.9000N	120.5673W	176	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMRF	38.2453N	120.5207W	799	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMST	37.9045N	120.4048W	366	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSSRT	35.6918N	117.7493W	698	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSFRI	36.9917N	119.7083W	119	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCASR	37.5748N	118.5515W	2107	7	18	57.67	100	134	16
C4932	84	05	5	719	WFC	USGSLLK	37.5788N	118.9050W	3030	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCLKR	37.5902N	118.8242W	2630	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSBENR	37.7155N	118.5733W	2463	7	18	59.03	100	132	16
C4932	84	05	5	719	WFC	USGSEMH	37.6663N	118.9392W	2495	7	18	57.53	100	134	16
C4932	84	05	5	719	WFC	USGSLCC	37.6105N	118.9158W	2550	7	18	56.51	100	135	16
C4932	84	05	5	719	WFC	USGSLMC	37.7288N	118.9465W	2540	7	18	58.59	100	133	16
C4932	84	05	5	719	WFC	USGSMGMR	37.8133N	118.6955W	2472	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMMCR	38.3608N	119.1283W	2548	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSORCR	37.6353N	118.6560W	2301	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSSCHR	37.3658N	118.6870W	2365	7	18	56.51	100	135	16
C4932	84	05	5	719	WFC	USGSSHL	37.6167N	118.9550W	2530	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSRSM	37.5107N	118.8822W	3680	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSTAC	37.6317N	118.9650W	2398	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMLK	37.6643N	118.9750W	2670	7	18	57.79	100	134	16
C4932	84	05	5	719	WFC	USGSDOE	37.6387N	118.8355W	2220	7	18	56.51	100	135	16
C4932	84	05	5	719	WFC	USGSWCH	35.8830N	118.0747W	2475	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSWKT	35.7940N	118.4425W	890	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSWOF	35.5357N	118.7125W	1341	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSSHLR	37.6167N	118.9550W	2530	7	18	40.33	100	151	16

C4932	84	05	5	719	WFC	USGSLCCR	37.6105N	118.9158W	2550	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSLULR	38.0523N	119.1803W	2243	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSCVA	37.6183N	121.7582W	201	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPWM	36.4328N	120.2110W	72	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPHB	36.2488N	120.0827W	100	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPDR	36.3357N	120.3687W	488	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSPKE	36.0615N	120.1090W	288	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSDMP	37.7080N	119.0458W	2550	7	18	59.07	100	132	16
C4932	84	05	5	719	WFC	USGSCVM	37.6098N	118.8733W	2260	7	18	56.19	100	135	16
C4932	84	05	5	719	WFC	USGSCSR	37.6777N	118.8183W	2122	7	18	57.17	100	134	16
C4932	84	05	5	719	WFC	USGSSKI	37.6530N	119.0238W	2660	7	18	58.13	100	133	16
C4932	84	05	5	719	WFC	USGSCHS	37.6550N	118.9045W	2420	7	18	57.11	100	134	16
C4932	84	05	5	719	WFC	USGSSHLN	37.6167N	118.9550W	2530	7	18	40.33	100	151	16
C4932	84	05	5	719	WFC	USGSMDW	37.6313N	118.9162W	2350	7	18	56.81	100	135	16
C4932	84	05	5	719	WFC	USGSMMP	37.6100N	119.0280W	2870	7	18	57.67	100	134	16
C4932	84	05	5	719	WFC	USGSGRP	37.6265N	118.9013W	2208	7	18	56.63	100	135	16
C4932	84	05	5	719	WFC	USGSYMC	37.6255N	118.9362W	2340	7	18	56.89	100	135	16
C4932	84	05	5	719	WFC	USGSCSW	37.6442N	118.9282W	2280	7	18	57.11	100	70	16
C4932	84	05	5	719	WFC	USGSBNY	37.6408N	118.9358W	2325	7	18	57.11	100	134	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

	LINES	
ITEM	START	END
PHC	889	914
STA	915	938
SAT	939	1030
SPC	1031	2690
CQ1	2691	2696
CQ2	2697	2786
CQ3	2787	2906
WFC	2907	2929

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

	LINES	
STATION	START	END
CLKR	2930	3619
LLK	3620	4309
CVM	4310	4999
DOE	5000	5689
LCCR	5690	6379
SCHR	6380	7069
GRP	7070	7759
WMDR	7760	8449
MDW	8450	9139
CSR	9140	9829
YMC	9830	10519
CHS	10520	11209
SHL	11210	11899
BNY	11900	12589
TAC	12590	13279
EMH	13280	13969
MLK	13970	14659

C*	MMP	14660	15349
C*	CASR	15350	16039
C*	SKI	16040	16729
C*	LMC	16730	17419
C*	BENR	17420	18109
C*	DMP	18110	18799

C*END-----

4932	84	05	5	719	SUC	2.82	37.4883N	118.8016W	8.87A	3.1D	25	104	11	.14
4932	84	05	5	719	PHC	USGSMHD	IPU1	20.72						
4932	84	05	5	719	PHC	USGSWMDR	IPD0	6.20						
4932	84	05	5	719	PHC	USGSCLK	IPD0	5.58						
4932	84	05	5	719	PHC	USGSMAT	IPU0	20.15						
4932	84	05	5	719	PHC	USGSMNP	IPU0	16.96						
4932	84	05	5	719	PHC	USGSMNPN	IPU0	17.02						
4932	84	05	5	719	PHC	USGSCASR	IPD0	7.73						
4932	84	05	5	719	PHC	USGSBENR	IPU0	8.79						
4932	84	05	5	719	PHC	USGSEMH	IPD0	7.53						

***** 17901 data cards not shown here *****

C#FINIS DSN=SL000088

Table SL000089

C#DSN=SL000089;SIZE=012603;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=058;STRT=000001;
 C*DATE: 19850430; 0; 840509A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840509; 19840509; 37.471N; 37.471N; 118.617W; 118.617W; ; 5385;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840509 AT 17:13
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	3.7637	216.8965	41138	42076
CCASR	37.5748N	118.5515W	2107	13.6106	32.2310	59023	59954
CSCHR	37.3658N	118.6870W	2365	14.0007	213.9928	67982	68912
CORCR	37.6353N	118.6560W	2301	18.7217	346.4824	67556	67981
CCLK	37.5902N	118.8242W	2630	26.6150	299.7722	42077	43095
CCLKR	37.5902N	118.8242W	2630	26.6150	299.7722	60974	61895
CBENR	37.7155N	118.5733W	2463	27.4976	10.1189	61896	62812
CRSM	37.5107N	118.8822W	3680	29.8898	278.5115	69932	70950
CDOE	37.6387N	118.8355W	2220	30.6353	307.3342	72264	73282
CCSR	37.6777N	118.8183W	2122	32.0582	315.5657	83293	84311
CCVM	37.6098N	118.8733W	2260	32.4471	298.3020	82274	83292
CLLK	37.5788N	118.9050W	3030	34.2515	290.4290	59955	60973
CGRP	37.6265N	118.9013W	2208	36.0669	298.5361	88436	89454
CLCC	37.6105N	118.9158W	2550	36.7139	294.9060	63722	64740
CLCCR	37.6105N	118.9158W	2550	36.7139	294.9060	77110	77299
CMDW	37.6313N	118.9162W	2350	37.7787	298.0430	86643	87555
CCHS	37.6550N	118.9045W	2420	37.9730	302.4609	85331	86242
CMGMR	37.8133N	118.6955W	2472	38.8833	346.9619	65518	66536
CYMC	37.6255N	118.9362W	2340	39.4760	295.7014	89455	90366
CCSW	37.6442N	118.9282W	2280	39.6337	298.9534	90367	91385
CBNY	37.6408N	118.9358W	2325	40.1987	297.9004	91386	92296
CSHLR	37.6167N	118.9550W	2530	40.9787	293.2048	76091	77109
CSHLN	37.6167N	118.9550W	2530	40.9787	293.2048	86243	86642
CSHL	37.6167N	118.9550W	2530	40.9787	293.2048	68913	69931
CEMH	37.6663N	118.9392W	2495	41.9156	301.0686	62813	63721
CTAC	37.6317N	118.9650W	2398	42.6684	294.6633	70951	71244
CMLK	37.6643N	118.9750W	2670	45.2723	298.2239	71245	72263
CLMC	37.7288N	118.9465W	2540	46.5039	307.8596	64741	65517
CMMP	37.6100N	119.0280W	2870	48.3127	288.5957	87556	88435

CSKI	37.6530N	119.0238W	2660	49.6040	293.9802	84312	85330
CDMP	37.7080N	119.0458W	2550	54.5032	298.7793	81376	82273
CLULR	38.0523N	119.1803W	2243	89.8456	315.7070	77300	78318
CMMCR	38.3608N	119.1283W	2548	113.7511	329.9502	66537	67555
CMNPN	37.4150N	119.7283W	1000	123.9260	267.1489	53928	54946
CMNP	37.4150N	119.7283W	1000	123.9260	267.1489	53080	53927
CFRI	36.9917N	119.7083W	119	132.6795	246.4216	58004	59022
CMAT	37.8733N	119.8667W	1353	146.0996	287.7395	49210	50022
CMHD	37.1235N	119.8923W	180	147.1868	254.8572	29929	30947
CWCH	35.8830N	118.0747W	2475	186.9128	161.1191	73283	74301
CWKT	35.7940N	118.4425W	890	187.8510	174.0593	74302	75071
CMYL	37.3780N	120.4197W	84	201.0245	267.0752	30948	31966
CMST	37.9045N	120.4048W	366	204.7520	283.5476	56985	58003
CPWM	36.4328N	120.2110W	72	211.8775	237.0314	78319	79337
CWOF	35.5357N	118.7125W	1341	216.1091	182.8368	75072	76090
CMCH	38.0187N	120.5095W	475	219.2515	286.0432	50023	51041
CMOY	37.9000N	120.5673W	176	222.2728	282.3303	54947	55965
CMRF	38.2453N	120.5207W	799	228.6320	292.0056	55966	56984
CPKE	36.0615N	120.1090W	288	228.7305	226.7092	80357	81375
CMCU	37.9727N	120.6170W	336	229.4917	283.9963	51042	52060
CPDR	36.3357N	120.3687W	488	232.5608	237.1504	79338	80356
CPAR	36.2492N	120.3420W	485	235.5303	234.7838	8530	9548
CBRM	36.8450N	120.8237W	372	255.5056	254.2464	36043	37061
CMNH	38.1458N	120.8137W	219	255.7241	286.9734	52061	53079
CPCA	35.9317N	120.3370W	1189	257.3452	228.2409	6492	7510
CPSR	35.8578N	120.2802W	552	258.3625	225.9356	4454	5472
CBMS	36.6630N	120.7918W	811	258.4592	249.7104	19739	20757
CPMR	35.7848N	120.2357W	512	260.6726	223.8852	3435	4453
CPRC	36.2562N	120.6200W	623	261.0659	238.8512	10568	11586
CPAG	35.7320N	120.2493W	482	266.0239	223.2377	2416	3434
CAOD	38.6148N	120.7285W	520	267.1128	298.3030	32986	34004
CPHR	36.3730N	120.8183W	732	274.1294	243.5785	12606	13624
CPPT	36.1083N	120.7212W	506	279.4631	237.1492	9549	10567
CHSL	37.0193N	121.0855W	520	279.5200	259.6936	48191	49209
CPMP	36.2152N	120.7948W	784	280.2063	240.1122	11587	12605
CPWK	35.8145N	120.5112W	503	280.6487	228.8863	5473	6491
CBVV	36.6458N	121.0298W	604	284.1077	251.2037	20758	21776
CBVZ	36.6458N	121.0298W	604	284.1077	251.2037	21777	22795
CALA	38.5667N	120.9562W	293	287.3813	294.9670	31967	32985
CBBG	36.5783N	121.0385W	1097	287.5586	249.8486	18720	19738
CPBW	36.3150N	120.9292W	381	288.1113	243.5204	13625	14643
CPIV	35.9065N	120.6823W	497	288.9392	232.9176	7511	8529
CBEM	36.6613N	121.0960W	488	290.5564	251.9945	27891	28909
CARJ	38.6865N	120.9563W	460	293.2878	297.3218	34005	35023
CBBN	36.5100N	121.0755W	448	294.1399	248.7343	17701	18719
CHQRV	36.8337N	121.2127W	536	297.7546	256.2786	23815	24833
CBEH	36.6647N	121.1742W	342	298.7424	252.5803	28910	29928
CHPLV	37.0522N	121.2900W	152	301.3638	261.1511	24834	25852
CPLO	36.2465N	121.0425W	308	302.8669	243.2915	14644	15662
CBVL	36.5752N	121.1890W	510	303.4768	250.8786	25853	26871
CBPI	36.4900N	121.1735W	329	305.1440	249.0886	16682	17700
CHLT	36.8845N	121.3082W	183	306.8337	257.7737	46153	47171
CHJS	36.8165N	121.2987W	215	307.5249	256.3562	45134	46152
CBSCV	36.6417N	121.2598W	323	308.6238	252.6570	22796	23814
CHFE	36.9833N	121.4015W	323	314.8921	260.1248	43096	44114
CBJO	36.6108N	121.3135W	1052	315.3826	252.3849	26872	27890

CBSGV	36.4138N	121.2537W	192	316.6040	248.2302	15663	16681
CHGS	37.0958N	121.4472W	778	317.9937	262.4971	44115	45133
CARR	38.7653N	121.1718W	127	318.6760	296.7393	35024	36042
CCST	37.6392N	121.4982W	205	321.3372	273.3245	40119	41137
CCAOV	37.3493N	121.5327W	628	324.9814	267.6306	37062	38080
CHOR	36.9172N	121.5077W	98	327.8774	259.2163	47172	48190
CCMR	37.5947N	121.6370W	500	336.5354	272.3354	39100	40118
CCDVV	37.5663N	121.6802W	250	341.2363	271.7756	38081	39099
CWWVB	0.0000	0.0000	0	13840.0586	107.4211	378	1396
CIRGI	0.0000	0.0000	0	13840.0586	107.4211	1397	2415

C*

C* ORIGINAL WAVEFORM CARDS

C5385	84	05	9	1713	WFC USGSWWVB		17	13	14.32	100	162	16	
C5385	84	05	9	1713	WFC USGSIRGI		17	13	14.32	100	162	16	
C5385	84	05	9	1713	WFC USGSPAG	35.7320N 120.2493W	482	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPMR	35.7848N 120.2357W	512	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPSR	35.8578N 120.2802W	552	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPWK	35.8145N 120.5112W	503	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPCA	35.9317N 120.3370W	1189	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPIV	35.9065N 120.6823W	497	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPAR	36.2492N 120.3420W	485	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPPT	36.1083N 120.7212W	506	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPRC	36.2562N 120.6200W	623	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPMP	36.2152N 120.7948W	784	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPHR	36.3730N 120.8183W	732	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPBW	36.3150N 120.9292W	381	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSPLD	36.2465N 121.0425W	308	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBSGV	36.4138N 121.2537W	192	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBPI	36.4900N 121.1735W	329	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBBN	36.5100N 121.0755W	448	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBBG	36.5783N 121.0385W	1097	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBMS	36.6630N 120.7918W	811	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBAVV	36.6458N 121.0298W	604	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBAVZ	36.6458N 121.0298W	604	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBSCV	36.6417N 121.2598W	323	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSHQRV	36.8337N 121.2127W	536	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSHPLV	37.0522N 121.2900W	152	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBVL	36.5752N 121.1890W	510	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBJD	36.6108N 121.3135W	1052	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBEM	36.6613N 121.0960W	488	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBEH	36.6647N 121.1742W	342	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSMHD	37.1235N 119.8923W	180	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSMYL	37.3780N 120.4197W	84	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSALA	38.5667N 120.9562W	293	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSAOD	38.6148N 120.7285W	520	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSARJ	38.6865N 120.9563W	460	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSARR	38.7653N 121.1718W	127	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSBRM	36.8450N 120.8237W	372	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSCAOV	37.3493N 121.5327W	628	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSCDVV	37.5663N 121.6802W	250	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSCMR	37.5947N 121.6370W	500	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSCST	37.6392N 121.4982W	205	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSWMDR	37.4435N 118.6370W	1683	17	13	27.16	100	149	16
C5385	84	05	9	1713	WFC USGSCCLK	37.5902N 118.8242W	2630	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSHFE	36.9833N 121.4015W	323	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC USGSHGS	37.0958N 121.4472W	778	17	13	14.32	100	162	16

C5385	84	05	9	1713	WFC	USGSHJS	36.8165N	121.2987W	215	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSHLT	36.8845N	121.3082W	183	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSHOR	36.9172N	121.5077W	98	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSHSL	37.0193N	121.0855W	520	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMAT	37.8733N	119.8667W	1353	17	13	44.17	100	129	16
C5385	84	05	9	1713	WFC	USGSMCH	38.0187N	120.5095W	475	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMCU	37.9727N	120.6170W	336	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMNH	38.1458N	120.8137W	219	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMNP	37.4150N	119.7283W	1000	17	13	41.64	100	135	16
C5385	84	05	9	1713	WFC	USGSMNP	37.4150N	119.7283W	1000	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMOY	37.9000N	120.5673W	176	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMRF	38.2453N	120.5207W	799	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMST	37.9045N	120.4048W	366	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSFRI	36.9917N	119.7083W	119	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSCASR	37.5748N	118.5515W	2107	17	13	28.24	100	148	16
C5385	84	05	9	1713	WFC	USGSLLK	37.5788N	118.9050W	3030	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSCLKR	37.5902N	118.8242W	2630	17	13	29.76	100	147	16
C5385	84	05	9	1713	WFC	USGSBENR	37.7155N	118.5733W	2463	17	13	30.55	100	146	16
C5385	84	05	9	1713	WFC	USGSEMH	37.6663N	118.9392W	2495	17	13	31.93	100	145	16
C5385	84	05	9	1713	WFC	USGSLCC	37.6105N	118.9158W	2550	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSLMC	37.7288N	118.9465W	2540	17	13	32.77	100	123	16
C5385	84	05	9	1713	WFC	USGSMGMR	37.8133N	118.6955W	2472	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSMPCR	38.3608N	119.1283W	2548	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSORCR	37.6353N	118.6560W	2301	17	13	29.11	100	67	16
C5385	84	05	9	1713	WFC	USGSSCHR	37.3658N	118.6870W	2365	17	13	28.29	100	148	16
C5385	84	05	9	1713	WFC	USGSSHL	37.6167N	118.9550W	2530	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSRSM	37.5107N	118.8822W	3680	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSTAC	37.6317N	118.9650W	2398	17	13	31.89	100	46	16
C5385	84	05	9	1713	WFC	USGSMK	37.6643N	118.9750W	2670	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSDOE	37.6387N	118.8355W	2220	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSWCH	35.8830N	118.0747W	2475	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSWKT	35.7940N	118.4425W	890	17	13	52.59	100	122	16
C5385	84	05	9	1713	WFC	USGSWOF	35.5357N	118.7125W	1341	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSSHLR	37.6167N	118.9550W	2530	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSLCCR	37.6105N	118.9158W	2550	17	13	31.08	100	30	16
C5385	84	05	9	1713	WFC	USGSLULR	38.0523N	119.1803W	2243	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSPWM	36.4328N	120.2110W	72	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSPDR	36.3357N	120.3687W	488	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSPKE	36.0615N	120.1090W	288	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSDMP	37.7080N	119.0458W	2550	17	13	33.66	100	143	16
C5385	84	05	9	1713	WFC	USGSCVM	37.6098N	118.8733W	2260	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSCSR	37.6777N	118.8183W	2122	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSSKI	37.6530N	119.0238W	2660	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSCHS	37.6550N	118.9045W	2420	17	13	31.40	100	145	16
C5385	84	05	9	1713	WFC	USGSSHLN	37.6167N	118.9550W	2530	17	13	31.63	100	63	16
C5385	84	05	9	1713	WFC	USGSMDW	37.6313N	118.9162W	2350	17	13	31.28	100	145	16
C5385	84	05	9	1713	WFC	USGSMMP	37.6100N	119.0280W	2870	17	13	32.55	100	140	16
C5385	84	05	9	1713	WFC	USGSGRP	37.6265N	118.9013W	2208	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSYMC	37.6255N	118.9362W	2340	17	13	31.47	100	145	16
C5385	84	05	9	1713	WFC	USGSCSW	37.6442N	118.9282W	2280	17	13	14.32	100	162	16
C5385	84	05	9	1713	WFC	USGSBNY	37.6408N	118.9358W	2325	17	13	31.62	100	145	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*

C*

ITEM	START	END
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C*
C*      PHC          750      779
C*      STA          780      800
C*      SAT          801      887
C*      SPC          888     2452
C*      CQ1         2453     2458
C*      CQ2         2459     2488
C*      CQ3         2489     2542
C*      WFC         2543     2562
C*

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C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

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C*
C*              LINES
C*      STATION      START      END
C*
C*      WMDR         2563      3064
C*      CASR         3065      3566
C*      SCHR         3567      4068
C*      CLK          4069      4570
C*      CLKR         4571      5072
C*      BENR         5073      5574
C*      DOE          5575      6076
C*      CSR          6077      6578
C*      CVM          6579      7080
C*      LLK          7081      7582
C*      MDW          7583      8084
C*      CHS          8085      8586
C*      YMC          8587      9088
C*      BNY          9089      9590
C*      EMH          9591     10092
C*      MLK         10093     10594
C*      LMC         10595     11096
C*      MMP         11097     11598
C*      SKI         11599     12100
C*      DMP         12101     12602

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C*END-----

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5385  84 05 9 1713  SUC 35.12 37.4707N 118.6167W 9.68A 2.8D 25 148 3 .22
5385  84 05 9 1713  PHC USGSMHD IPU1 54.71
5385  84 05 9 1713  PHC USGSWMDR IPU0 37.34
5385  84 05 9 1713  PHC USGSMAT IPU0 54.80
5385  84 05 9 1713  PHC USGSMNP IPU0 51.42
5385  84 05 9 1713  PHC USGSMNP P4 51.92
5385  84 05 9 1713  PHC USGSCASR IPU0 38.30
5385  84 05 9 1713  PHC USGSLLK EPU4 38.30
5385  84 05 9 1713  PHC USGSCLKR IPU0 39.93
5385  84 05 9 1713  PHC USGSBENR IPU0 40.24

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***** 11843 data cards not shown here *****

C#FINIS DSN=SL000089

Table SL000090

C#DSN=SL000090;SIZE=010066;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=059;STRT=000001;
 C*DATE: 19850430; 0; 840517A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840517; 19840517; 37.464N; 37.464N; 118.840W; 118.840W; ; 5777;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840517 AT 03:57
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	7.0457	317.8145	61470	62304
CCIKR	37.5902N	118.8242W	2630	14.1184	7.0220	33790	54624
CCLK	37.5902N	118.8242W	2630	14.1184	7.0220	39531	40089
CLLK	37.5788N	118.9050W	3030	14.6785	330.3149	52955	53789
CCVM	37.6098N	118.8733W	2260	16.6074	346.9827	72255	72994
CLCC	37.6105N	118.9158W	2550	18.3331	332.4768	55927	56665
CLCCR	37.6105N	118.9158W	2550	18.3331	332.4768	66522	67356
CGRP	37.6265N	118.9013W	2208	19.2868	339.1711	77329	78066
CDOE	37.6387N	118.8355W	2220	19.3817	1.3860	63346	64016
CSCHR	37.3658N	118.6870W	2365	20.1504	122.4480	59896	60634
CMDW	37.6313N	118.9162W	2350	20.4184	335.3501	75859	76595
CYMC	37.6255N	118.9362W	2340	20.8907	329.0525	78067	78901
CSHL	37.6167N	118.9550W	2530	21.2564	322.8528	60635	61469
CSHLR	37.6167N	118.9550W	2530	21.2564	322.8528	65687	66521
CSHLN	37.6167N	118.9550W	2530	21.2564	322.8528	75024	75858
CCSW	37.6442N	118.9282W	2280	22.2803	333.7544	78902	79736
CBNY	37.6408N	118.9358W	2325	22.3362	331.3804	79737	80056
CCHS	37.6550N	118.9045W	2420	22.3724	341.1917	74290	75023
CWMDR	37.4435N	118.6370W	1683	22.6792	95.6001	38793	39530
CTAC	37.6317N	118.9650W	2398	23.2504	323.1353	62305	62614
CCSR	37.6777N	118.8183W	2122	23.8076	5.7451	72995	73829
CEMH	37.6663N	118.9392W	2495	25.0136	333.7178	55195	55926
CMMP	37.6100N	119.0280W	2870	26.4947	307.7007	76596	77328
CMLK	37.6643N	118.9750W	2670	26.8334	325.8511	62615	63345
CORCR	37.6353N	118.6560W	2301	27.9151	47.1072	59061	59895
CSKI	37.6530N	119.0238W	2660	29.3129	315.6375	73830	74289
CLMC	37.7288N	118.9465W	2540	31.6550	337.9392	56666	57390
CCASR	37.5748N	118.5515W	2107	34.3676	69.0110	52227	52954
CDMP	37.7080N	119.0458W	2550	35.4602	319.6804	71532	72254

CBENR	37.7155N	118.5733W	2463	40.6954	46.7834	54625	55194
CMGNR	37.8133N	118.6955W	2472	41.8769	22.5420	57391	58225
CLULR	38.0523N	119.1803W	2243	75.3415	329.7844	67357	68191
CMNP	37.4150N	119.7283W	1000	99.0877	266.8950	47376	48051
CMMCR	38.3608N	119.1283W	2548	104.3284	342.0623	58226	59060
CFRI	36.9917N	119.7083W	119	109.9791	241.6194	51392	52226
CMAT	37.8733N	119.8667W	1353	122.9792	291.6201	44265	44870
CMHD	37.1235N	119.8923W	180	123.1367	252.1950	23763	24597
CMYL	37.3780N	120.4197W	84	176.1862	266.9219	24598	25432
CMST	37.9045N	120.4048W	366	180.9238	285.6348	49722	50556
CPWM	36.4328N	120.2110W	72	191.0190	233.1705	68192	69026
CWKT	35.7940N	118.4425W	890	191.2545	166.5967	64017	64851
CPHB	36.2488N	120.0827W	100	193.5560	225.7458	69027	69861
CMCH	38.0187N	120.5095W	475	195.7611	288.2759	44871	45705
CMOY	37.9000N	120.5673W	176	198.2831	284.0874	48052	48886
CMCU	37.9727N	120.6170W	336	205.7072	285.8845	45706	46540
CMRF	38.2453N	120.5207W	799	206.1552	294.7971	48887	49721
CPKE	36.0615N	120.1090W	288	210.7214	222.2238	70697	71531
CPDR	36.3357N	120.3687W	488	211.6275	233.6774	69862	70696
CPAR	36.2492N	120.3420W	485	215.1888	231.1359	5393	6227
CWOF	35.5357N	118.7125W	1341	215.5148	176.2212	64852	65686
CBRM	36.8450N	120.8237W	372	231.4544	252.7662	36288	37122
CSRT	35.6918N	117.7493W	698	232.0119	148.3564	50557	51391
CMNH	38.1458N	120.8137W	219	232.3488	288.9487	46541	47375
CPCR	36.0938N	120.4347W	296	234.2982	229.4161	4558	5392
CBMS	36.6630N	120.7918W	811	235.0047	247.7909	13743	14577
CPCA	35.9317N	120.3370W	1189	238.7885	224.4041	3723	4557
CPRC	36.2562N	120.6200W	623	239.6801	235.9375	6228	7062
CAOD	38.6148N	120.7285W	520	245.9385	301.2107	31278	32112
CPGH	35.8310N	120.3528W	433	248.2000	222.8738	2053	2887
CADW	38.4392N	120.8482W	251	248.3275	295.7664	26268	27102
CPHR	36.3730N	120.8183W	732	251.7211	241.2217	7898	8732
CHSL	37.0193N	121.0855W	520	254.9651	258.8711	43430	44264
CPMP	36.2152N	120.7948W	784	258.5115	237.5175	7063	7897
CBAVV	36.6458N	121.0298W	604	260.4250	249.6076	14578	15412
CBAVZ	36.6458N	121.0298W	604	260.4250	249.6076	15413	16247
CPWK	35.8145N	120.5112W	503	261.8494	225.4347	2888	3722
CHCP	37.1945N	121.1847W	513	262.8562	263.4941	40090	40924
CBGG	36.5783N	121.0385W	1097	264.0659	248.1526	12908	13742
CALA	38.5667N	120.9562W	293	265.4385	297.3862	29608	30442
CPBW	36.3150N	120.9292W	381	265.7014	241.2826	8733	9567
CBEM	36.6613N	121.0960W	488	266.7654	250.5070	20423	21257
CBBN	36.5100N	121.0755W	448	270.8120	246.9834	12073	12907
CARJ	38.6865N	120.9563W	460	271.8540	299.8740	32948	33782
CHQRV	36.8337N	121.2127W	536	273.4773	255.2061	17083	17917
CBEH	36.6647N	121.1742W	342	274.8730	251.1876	21258	22092
CHPLV	37.0522N	121.2900W	152	276.7153	260.5229	17918	18752
CBVL	36.5752N	121.1890W	510	279.8296	249.3654	18753	19587
CBPI	36.4900N	121.1735W	329	281.7559	247.4352	11238	12072
CBHR	36.7278N	121.2638W	213	282.2068	253.1903	22928	23762
CHLT	36.8845N	121.3082W	183	282.4204	256.8643	42595	43429
CHJS	36.8165N	121.2987W	215	283.2380	255.3274	41760	42594
CAGI	38.8447N	120.9813W	305	283.4175	302.6765	27938	28772
CBSCV	36.6417N	121.2598W	323	284.7412	251.3191	16248	17082
CBLR	36.6660N	121.2727W	232	285.2427	251.9263	22093	22927
CAFD	38.9480N	120.9723W	549	289.0012	304.7021	27103	27937

CHFE	36.9833N	121.4015W	323	290.3042	259.4390	40925	41759
CBJO	36.6108N	121.3135W	1052	291.5315	251.0557	19588	20422
CAHR	38.8543N	121.0705W	354	292.3958	301.8013	28773	29607
CCST	37.6392N	121.4982W	205	296.6072	273.7563	37958	38792
CARR	38.7653N	121.1718W	127	297.0857	299.0322	33783	34617
CARW	38.9563N	121.1622W	320	307.1311	302.5964	34618	35452
CAPR	38.8770N	121.2172W	133	307.6921	300.5972	32113	32947
CALN	38.9297N	121.2878W	54	317.4717	300.7856	30443	31277
CBPP	36.1687N	121.3780W	1591	317.6711	243.0371	9568	10402
CAVR	39.0245N	121.2708W	114	321.4480	302.5752	35453	36287
CBHS	36.3558N	121.5398W	646	325.2871	247.7621	10403	11237
CABR	39.1352N	121.4868W	24	348.4402	302.1536	25433	26267
CCSH	37.6480N	122.0428W	170	357.1821	273.2747	37123	37957
CIRG1	0.0000	0.0000	0	13863.5586	107.3875	1218	2052
CWWVB	0.0000	0.0000	0	13863.5586	107.3875	383	1217

C*

C* ORIGINAL WAVEFORM CARDS

C5777	84	0517	357	WFC	USGSWWVB		3	56	54.69	100	133	16	
C5777	84	0517	357	WFC	USGSIRG1		3	56	54.69	100	133	16	
C5777	84	0517	357	WFC	USGSPGH	35.8310N 120.3528W	433	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPWK	35.8145N 120.5112W	503	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPCA	35.9317N 120.3370W	1189	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPCR	36.0938N 120.4347W	296	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPAR	36.2492N 120.3420W	485	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPRC	36.2562N 120.6200W	623	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPMP	36.2152N 120.7948W	784	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPHR	36.3730N 120.8183W	732	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPBW	36.3150N 120.9292W	381	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBPP	36.1687N 121.3780W	1591	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBHS	36.3558N 121.5398W	646	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBPI	36.4900N 121.1735W	329	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBBN	36.5100N 121.0755W	448	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBBG	36.5783N 121.0385W	1097	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBMS	36.6630N 120.7918W	811	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBAVV	36.6458N 121.0298W	604	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBAVZ	36.6458N 121.0298W	604	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBSCV	36.6417N 121.2598W	323	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHQRV	36.8337N 121.2127W	536	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHPLV	37.0522N 121.2900W	152	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBVL	36.5752N 121.1890W	510	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBJO	36.6108N 121.3135W	1052	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBEM	36.6613N 121.0960W	488	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBEH	36.6647N 121.1742W	342	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBLR	36.6660N 121.2727W	232	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBHR	36.7278N 121.2638W	213	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMHD	37.1235N 119.8923W	180	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMYL	37.3780N 120.4197W	84	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSABR	39.1352N 121.4868W	24	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSADW	38.4392N 120.8482W	251	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAFD	38.9480N 120.9723W	549	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAGI	38.8447N 120.9813W	305	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAHR	38.8543N 121.0705W	354	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSALA	38.5667N 120.9562W	293	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSALN	38.9297N 121.2878W	54	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAOD	38.6148N 120.7285W	520	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAPR	38.8770N 121.2172W	133	3	56	54.69	100	133	16

C5777	84	0517	357	WFC	USGSARJ	38.6865N	120.9563W	460	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSARR	38.7653N	121.1718W	127	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSARW	38.9563N	121.1622W	320	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSAVR	39.0245N	121.2708W	114	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBRM	36.8450N	120.8237W	372	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSCSH	37.6480N	122.0428W	170	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSCST	37.6392N	121.4982W	205	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSWMDR	37.4435N	118.6370W	1683	3	57	10.13	100	117	16
C5777	84	0517	357	WFC	USGSCCLK	37.5902N	118.8242W	2630	3	57	9.49	100	88	16
C5777	84	0517	357	WFC	USGSHCP	37.1945N	121.1847W	513	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHFE	36.9833N	121.4015W	323	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHJS	36.8165N	121.2987W	215	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHLT	36.8845N	121.3082W	183	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSHSL	37.0193N	121.0855W	520	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMAT	37.8733N	119.8667W	1353	3	57	23.33	100	96	16
C5777	84	0517	357	WFC	USGSMCH	38.0187N	120.5095W	475	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMCU	37.9727N	120.6170W	336	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMNH	38.1458N	120.8137W	219	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMNP	37.4150N	119.7283W	1000	3	57	20.13	100	107	16
C5777	84	0517	357	WFC	USGSMOY	37.9000N	120.5673W	176	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMRF	38.2453N	120.5207W	799	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMST	37.9045N	120.4048W	366	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSSRT	35.6918N	117.7493W	698	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSFRI	36.9917N	119.7083W	119	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSCASR	37.5748N	118.5515W	2107	3	57	11.81	100	116	16
C5777	84	0517	357	WFC	USGSLLK	37.5788N	118.9050W	3030	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSCCLKR	37.5902N	118.8242W	2630	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSBENR	37.7155N	118.5733W	2463	3	57	13.17	100	90	16
C5777	84	0517	357	WFC	USGSEMH	37.6663N	118.9392W	2495	3	57	11.09	100	116	16
C5777	84	0517	357	WFC	USGSLCC	37.6105N	118.9158W	2550	3	57	10.05	100	117	16
C5777	84	0517	357	WFC	USGSLMC	37.7288N	118.9465W	2540	3	57	12.21	100	115	16
C5777	84	0517	357	WFC	USGSMGMR	37.8133N	118.6955W	2472	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMPCR	38.3608N	119.1283W	2548	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSORCR	37.6353N	118.6560W	2301	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSSCHR	37.3658N	118.6870W	2365	3	57	9.97	100	117	16
C5777	84	0517	357	WFC	USGSSHL	37.6167N	118.9550W	2530	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSRSM	37.5107N	118.8822W	3680	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSTAC	37.6317N	118.9650W	2398	3	57	10.69	100	49	16
C5777	84	0517	357	WFC	USGSMLK	37.6643N	118.9750W	2670	3	57	11.33	100	116	16
C5777	84	0517	357	WFC	USGSDOE	37.6387N	118.8355W	2220	3	57	10.37	100	106	16
C5777	84	0517	357	WFC	USGSWKT	35.7940N	118.4425W	890	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSWOF	35.5357N	118.7125W	1341	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSSHLR	37.6167N	118.9550W	2530	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSLCCR	37.6105N	118.9158W	2550	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSLULR	38.0523N	119.1803W	2243	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPWM	36.4328N	120.2110W	72	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPHB	36.2488N	120.0827W	100	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPDR	36.3357N	120.3687W	488	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSPKE	36.0615N	120.1090W	288	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSDMP	37.7080N	119.0458W	2550	3	57	12.53	100	115	16
C5777	84	0517	357	WFC	USGSCVM	37.6098N	118.8733W	2260	3	57	9.89	100	117	16
C5777	84	0517	357	WFC	USGSCSR	37.6777N	118.8183W	2122	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSSKI	37.6530N	119.0238W	2660	3	57	11.49	100	73	16
C5777	84	0517	357	WFC	USGSCHS	37.6550N	118.9045W	2420	3	57	10.77	100	117	16
C5777	84	0517	357	WFC	USGSSHLN	37.6167N	118.9550W	2530	3	56	54.69	100	133	16
C5777	84	0517	357	WFC	USGSMDW	37.6313N	118.9162W	2350	3	57	10.37	100	117	16

C5777 84 0517 357 WFC USGSMMP 37.6100N 119.0280W 2870 3 57 10.93 100 116 16
 C5777 84 0517 357 WFC USGSGRP 37.6265N 118.9013W 2208 3 57 10.21 100 117 16
 C5777 84 0517 357 WFC USGSYMC 37.6255N 118.9362W 2340 3 56 54.69 100 133 16
 C5777 84 0517 357 WFC USGSCSW 37.6442N 118.9282W 2280 3 56 54.69 100 133 16
 C5777 84 0517 357 WFC USGSBNY 37.6408N 118.9358W 2325 3 57 10.69 100 50 16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	756	785
C*	STA	786	803
C*	SAT	804	868
C*	SPC	869	1873
C*	CQ2	1874	1944
C*	CQ3	1945	2040
C*	WFC	2041	2057

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	CLKR	2058	2528
C*	CVM	2529	2999
C*	GRP	3000	3470
C*	DOE	3471	3941
C*	SCHR	3942	4412
C*	MDW	4413	4883
C*	YMC	4884	5354
C*	CHS	5355	5825
C*	WMDR	5826	6296
C*	EMH	6297	6767
C*	MMP	6768	7238
C*	MLK	7239	7709
C*	SKI	7710	8180
C*	LMC	8181	8651
C*	CASR	8652	9122
C*	DMP	9123	9593
C*	BENR	9594	10064

C*END-----

5777 84 0517 357 SUC 16.31 37.4635N 118.8397W 8.07A 2.5D 23 137 14 .14
 5777 84 0517 357 PHC USGSWMDR IPD0 20.07
 5777 84 0517 357 PHC USGSCLK IPU0 19.33
 5777 84 0517 357 PHC USGSMAT EPU2 33.47
 5777 84 0517 357 PHC USGSMNP IPU0 30.02
 5777 84 0517 357 PHC USGSCASR IPD0 21.92
 5777 84 0517 357 PHC USGSLLK P4 21.25
 5777 84 0517 357 PHC USGSBENR IPD0 22.99
 5777 84 0517 357 PHC USGSEMH IPD0 21.14
 5777 84 0517 357 PHC USGSLCC EPD2 19.96

***** 9300 data cards not shown here *****

C#FINIS DSN=SL000090

Table SL000091

C#DSN=SL000091;SIZE=011585;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=060;STRT=000001;
 C*DATE: 19850430; 0; 840517B ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840517; 19840517; 37.463N; 37.463N; 118.840W; 118.840W; ; 5780;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840517 AT 05:02
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	7.0585	318.5002	53215	54026
CCLKR	37.5902N	118.8242W	2630	14.1905	7.2073	45789	46600
CCLK	37.5902N	118.8242W	2630	14.1905	7.2073	32752	33310
CLLK	37.5788N	118.9050W	3030	14.7090	330.6257	44977	45788
CCVM	37.6098N	118.8733W	2260	16.6594	347.2158	63147	63858
CLCCR	37.6105N	118.9158W	2550	18.3665	332.7219	58392	59203
CLCC	37.6105N	118.9158W	2550	18.3665	332.7219	47911	48621
CGRP	37.6265N	118.9013W	2208	19.3291	339.3911	68307	69016
CDOE	37.6387N	118.8355W	2220	19.4489	1.5415	55247	55955
CSCHR	37.3658N	118.6870W	2365	20.1611	122.2073	51692	52402
CMDW	37.6313N	118.9162W	2350	20.4557	335.5654	66893	67601
CYMC	37.6255N	118.9362W	2340	20.9193	329.2729	69017	69828
CSHL	37.6167N	118.9550W	2530	21.2762	323.0764	52403	53214
CSHLN	37.6167N	118.9550W	2530	21.2762	323.0764	66081	66892
CSHLR	37.6167N	118.9550W	2530	21.2762	323.0764	57580	58391
CCSW	37.6442N	118.9282W	2280	22.3154	333.9541	69829	70640
CBNY	37.6408N	118.9358W	2325	22.3680	331.5835	70641	71347
CCHS	37.6550N	118.9045W	2420	22.4173	341.3774	65375	66080
CWMDR	37.4435N	118.6370W	1683	22.7270	95.4216	32042	32751
CTAC	37.6317N	118.9650W	2398	23.2707	323.3396	54027	54434
CCSR	37.6777N	118.8183W	2122	23.8786	5.8591	63859	64562
CEMH	37.6663N	118.9392W	2495	25.0487	333.8960	47207	47910
CMMP	37.6100N	119.0280W	2870	26.4921	307.8853	67602	68306
CMLK	37.6643N	118.9750W	2670	26.8575	326.0259	54435	55246
CORCR	37.6353N	118.6560W	2301	27.9997	47.0842	50880	51691
CSKI	37.6530N	119.0238W	2660	29.3221	315.8035	64563	65374
CLMC	37.7288N	118.9465W	2540	31.6956	338.0752	48622	49255
CCASR	37.5748N	118.5515W	2107	34.4420	68.9412	44277	44976
CDMP	37.7080N	119.0458W	2550	35.4753	319.8162	62452	63146

CBENR	37.7155N	118.5733W	2463	40.7802	46.7683	46601	47206
CMGNR	37.8133N	118.6955W	2472	41.9585	22.5762	49256	50067
CLULR	38.0523N	119.1803W	2243	75.3710	329.8455	59204	60015
CMNP	37.4150N	119.7283W	1000	99.0299	266.9312	40381	41028
CMMCR	38.3608N	119.1283W	2548	104.3742	342.1018	50068	50879
CFRI	36.9917N	119.7083W	119	109.9001	241.6362	43465	44276
CMAT	37.8733N	119.8667W	1353	122.9529	291.6580	37371	37944
CMHD	37.1235N	119.8923W	180	123.0649	252.2165	19862	20673
CMYL	37.3780N	120.4197W	84	176.1285	266.9424	20674	21485
CMST	37.9045N	120.4048W	366	180.8892	285.6594	42653	43464
CPWM	36.4328N	120.2110W	72	190.9362	233.1765	60016	60827
CWKT	35.7740N	118.4425W	890	191.2031	166.5754	55955	56767
CMCH	38.0187N	120.5095W	475	195.7301	288.2921	37945	38756
CMOY	37.9000N	120.5673W	176	198.2465	284.1096	41029	41840
CMCU	37.9727N	120.6170W	336	205.6730	285.9062	38757	39568
CMRF	38.2453N	120.5207W	799	206.1334	294.8201	41841	42652
CPKE	36.0615N	120.1090W	288	210.6362	222.2249	61640	62451
CPDR	36.3357N	120.3687W	488	211.5448	233.6830	60828	61639
CPAR	36.2492N	120.3420W	485	215.1053	231.1405	5246	6057
CWOF	35.5357N	118.7125W	1341	215.4526	176.2056	56768	57579
CBRM	36.8450N	120.8237W	372	231.3832	252.7777	30418	31229
CMNH	38.1458N	120.8137W	219	232.3186	288.9685	39569	40380
CPCR	36.0938N	120.4347W	296	234.2141	229.4197	4434	5245
CBMS	36.6630N	120.7918W	811	234.9297	247.8008	11742	12553
CPCA	35.9317N	120.3370W	1189	238.7033	224.4059	3622	4433
CPRC	36.2562N	120.6200W	623	239.5983	235.9433	6058	6869
CAOD	38.6148N	120.7285W	520	245.9259	301.2302	25546	26357
CADW	38.4392N	120.8482W	251	248.3070	295.7854	21486	22297
CPHR	36.3730N	120.8183W	732	251.6419	241.2289	7682	8493
CPTR	35.6547N	120.2112W	643	253.1301	217.2025	1998	2809
CPHGV	35.8760N	120.4835W	792	254.7221	226.0522	2810	3621
CHSL	37.0193N	121.0855W	520	254.8994	258.8833	36559	37370
CPMP	36.2152N	120.7948W	784	258.4304	237.5233	6870	7681
CBAVV	36.6458N	121.0298W	604	260.3513	249.6170	12554	13365
CBAVZ	36.6458N	121.0298W	604	260.3513	249.6170	13366	14177
CHCP	37.1945N	121.1847W	513	262.7949	263.5071	33311	34122
CBBG	36.5783N	121.0385W	1097	263.9912	248.1614	10930	11741
CALA	38.5667N	120.9562W	293	265.4204	297.4041	24734	25545
CPBW	36.3150N	120.9292W	381	265.6223	241.2894	8494	9305
CBEM	36.6613N	121.0960W	488	266.6924	250.5164	16614	17425
CBBN	36.5100N	121.0755W	448	270.7366	246.9917	10118	10929
CARJ	38.6865N	120.9563W	460	271.8394	299.8918	27170	27981
CHQRV	36.8337N	121.2127W	536	273.4082	255.2164	14178	14989
CBEH	36.6647N	121.1742W	342	274.8005	251.1970	17426	18237
CHPLV	37.0522N	121.2900W	152	276.6511	260.5344	14990	15801
CBVL	36.5752N	121.1890W	510	279.7556	249.3741	15802	16613
CBPI	36.4900N	121.1735W	329	281.6804	247.4434	9306	10117
CBHR	36.7278N	121.2638W	213	282.1357	253.2000	19050	19861
CHLT	36.8845N	121.3082W	183	282.3528	256.8748	35747	36558
CHJS	36.8165N	121.2987W	215	283.1689	255.3374	34935	35746
CAGI	38.8447N	120.9813W	305	283.4070	302.6936	23110	23921
CAFD	38.9480N	120.9723W	549	288.9934	304.7190	22298	23109
CBSL	36.7755N	121.3493W	155	289.8103	254.7482	18238	19049
CHFE	36.9833N	121.4015W	323	290.2390	259.4497	34123	34934
CAHR	38.8543N	121.0705W	354	292.3840	301.8179	23922	24733
CCST	37.6392N	121.4982W	205	296.5574	273.7695	31230	32041

CARR	38.7653N	121.1718W	127	297.0701	299.0483	27982	28793
CARW	38.9563N	121.1622W	320	307.1204	302.6123	28794	29605
CAPR	38.8770N	121.2172W	133	307.6787	300.6130	26358	27169
CAVR	39.0245N	121.2708W	114	321.4375	302.5901	29606	30417
CWWVB	0.0000	0.0000	0	13863.5937	107.3870	374	1185
CIRG1	0.0000	0.0000	0	13863.5937	107.3870	1186	1997

C*

C* ORIGINAL WAVEFORM CARDS

C5780	84	0517	5	2	WFC	USGSWWVB		5	2	14.83	100	129	16	
C5780	84	0517	5	2	WFC	USGSIRG1		5	2	14.83	100	129	16	
C5780	84	0517	5	2	WFC	USGSPTR	35.6547N 120.2112W	643	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPHGV	35.8760N 120.4835W	792	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPCA	35.9317N 120.3370W	1189	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPCR	36.0938N 120.4347W	296	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPAR	36.2492N 120.3420W	485	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPRC	36.2562N 120.6200W	623	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPMP	36.2152N 120.7948W	784	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPHR	36.3730N 120.8183W	732	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPBW	36.3150N 120.9292W	381	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBPI	36.4900N 121.1735W	329	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBBN	36.5100N 121.0755W	448	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBBG	36.5783N 121.0385W	1097	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBMS	36.6630N 120.7918W	811	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBAVV	36.6458N 121.0298W	604	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBAVZ	36.6458N 121.0298W	604	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHQRV	36.8337N 121.2127W	536	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHPLV	37.0522N 121.2900W	152	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBVL	36.5752N 121.1890W	510	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBEM	36.6613N 121.0960W	488	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBEH	36.6647N 121.1742W	342	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBSL	36.7755N 121.3493W	155	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBHR	36.7278N 121.2638W	213	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMHD	37.1235N 119.8923W	180	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMYL	37.3780N 120.4197W	84	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSADW	38.4392N 120.8482W	251	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAFD	38.9480N 120.9723W	549	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAGI	38.8447N 120.9813W	305	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAHR	38.8543N 121.0705W	354	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSALA	38.5667N 120.9562W	293	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAOD	38.6148N 120.7285W	520	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAPR	38.8770N 121.2172W	133	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSARJ	38.6865N 120.9563W	460	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSARR	38.7653N 121.1718W	127	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSARW	38.9563N 121.1622W	320	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSAVR	39.0245N 121.2708W	114	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBRM	36.8450N 120.8237W	372	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSCST	37.6392N 121.4982W	205	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSWMDR	37.4435N 118.6370W	1683	5	2	31.11	100	113	16
C5780	84	0517	5	2	WFC	USGSCCLK	37.5902N 118.8242W	2630	5	2	30.47	100	88	16
C5780	84	0517	5	2	WFC	USGSHCP	37.1945N 121.1847W	513	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHFE	36.9833N 121.4015W	323	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHJS	36.8165N 121.2987W	215	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHLT	36.8845N 121.3082W	183	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSHSL	37.0193N 121.0855W	520	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMAT	37.8733N 119.8667W	1353	5	2	44.31	100	91	16
C5780	84	0517	5	2	WFC	USGSMCH	38.0187N 120.5095W	475	5	2	14.83	100	129	16

C5780	84	0517	5	2	WFC	USGSMCU	37.9727N	120.6170W	336	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMNH	38.1458N	120.8137W	219	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMNP	37.4150N	119.7283W	1000	5	2	41.11	100	103	16
C5780	84	0517	5	2	WFC	USGSMOY	37.9000N	120.5673W	176	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMRF	38.2453N	120.5207W	799	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMST	37.9045N	120.4048W	366	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSFRI	36.9917N	119.7083W	119	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSCASR	37.5748N	118.5515W	2107	5	2	32.79	100	111	16
C5780	84	0517	5	2	WFC	USGSLLK	37.5788N	118.9050W	3030	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSCCLKR	37.5902N	118.8242W	2630	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBENR	37.7155N	118.5733W	2463	5	2	34.15	100	96	16
C5780	84	0517	5	2	WFC	USGSEMH	37.6663N	118.9392W	2495	5	2	32.07	100	112	16
C5780	84	0517	5	2	WFC	USGSLCC	37.6105N	118.9158W	2550	5	2	31.03	100	113	16
C5780	84	0517	5	2	WFC	USGSLMC	37.7288N	118.9465W	2540	5	2	33.19	100	101	16
C5780	84	0517	5	2	WFC	USGSMGMR	37.8133N	118.6955W	2472	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMPCR	38.3608N	119.1283W	2548	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSORCR	37.6353N	118.6560W	2301	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSSCHR	37.3658N	118.6870W	2365	5	2	30.95	100	113	16
C5780	84	0517	5	2	WFC	USGSSHL	37.6167N	118.9550W	2530	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSRSM	37.5107N	118.8822W	3680	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSTAC	37.6317N	118.9650W	2398	5	2	31.67	100	64	16
C5780	84	0517	5	2	WFC	USGSMKL	37.6643N	118.9750W	2670	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSDOE	37.6387N	118.8355W	2220	5	2	31.35	100	112	16
C5780	84	0517	5	2	WFC	USGSWKT	35.7940N	118.4425W	890	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSWOF	35.5357N	118.7125W	1341	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSSHLR	37.6167N	118.9550W	2530	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSLCCR	37.6105N	118.9158W	2550	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSLULR	38.0523N	119.1803W	2243	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPWM	36.4328N	120.2110W	72	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPDR	36.3357N	120.3687W	488	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSPKE	36.0615N	120.1090W	288	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSDMP	37.7080N	119.0458W	2550	5	2	33.51	100	110	16
C5780	84	0517	5	2	WFC	USGSCVM	37.6098N	118.8733W	2260	5	2	30.87	100	113	16
C5780	84	0517	5	2	WFC	USGSCSR	37.6777N	118.8183W	2122	5	2	32.07	100	112	16
C5780	84	0517	5	2	WFC	USGSSKI	37.6530N	119.0238W	2660	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSCHS	37.6550N	118.9045W	2420	5	2	31.75	100	112	16
C5780	84	0517	5	2	WFC	USGSSHLN	37.6167N	118.9550W	2530	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSMDW	37.6313N	118.9162W	2350	5	2	31.35	100	112	16
C5780	84	0517	5	2	WFC	USGSMMP	37.6100N	119.0280W	2870	5	2	31.91	100	112	16
C5780	84	0517	5	2	WFC	USGSGRP	37.6265N	118.9013W	2208	5	2	31.19	100	113	16
C5780	84	0517	5	2	WFC	USGSYMC	37.6255N	118.9362W	2340	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSCSW	37.6442N	118.9282W	2280	5	2	14.83	100	129	16
C5780	84	0517	5	2	WFC	USGSBNY	37.6408N	118.9358W	2325	5	2	31.67	100	112	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	742	771
C*	STA	772	793
C*	SAT	794	873
C*	SPC	874	2113
C*	CQ2	2114	2208
C*	CQ3	2209	2322
C*	WFC	2323	2343

C*
C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*	STATION	START	END
C*	CLK	2344	2783
C*	CVM	2784	3223
C*	LCC	3224	3663
C*	GRP	3664	4103
C*	DOE	4104	4543
C*	SCHR	4544	4983
C*	MDW	4984	5423
C*	YMC	5424	5863
C*	BNY	5864	6303
C*	CHS	6304	6743
C*	WMDR	6744	7183
C*	TAC	7184	7623
C*	CSR	7624	8063
C*	EMH	8064	8503
C*	MMP	8504	8943
C*	MLK	8944	9383
C*	SKI	9384	9823
C*	LMC	9824	10263
C*	CASR	10264	10703
C*	DMP	10704	11143
C*	BENR	11144	11583

C*END-----

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5780 84 0517 5 2 SUC 37.24 37.4629N 118.8402W 7.90A 2.5D 23 137 14 .13
5780 84 0517 5 2 PHC USGSWMDR IPD0 41.01
5780 84 0517 5 2 PHC USGSCLK IPU0 40.26
5780 84 0517 5 2 PHC USGSMAT EPD2 54.43
5780 84 0517 5 2 PHC USGSMNP IPU0 50.94
5780 84 0517 5 2 PHC USGSCASR IPD0 42.85
5780 84 0517 5 2 PHC USGSLLK P4 42.03
5780 84 0517 5 2 PHC USGSBENR IPD0 43.92
5780 84 0517 5 2 PHC USGSEMH IPD1 42.09
5780 84 0517 5 2 PHC USGSLCC IPD0 40.89

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***** 10833 data cards not shown here *****

C#FINIS DSN=SL000091

Table SL000092

C#DSN=SL000092;SIZE=017139;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=061;STRT=000001;
 C*DATE: 19850430; 0; 840520A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840520; 19840520; 37.566N; 37.566N; 118.829W; 118.829W; ; 5997;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840520 AT 02:10
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCLKR	37.5902N	118.8242W	2630	2.7205	10.3596	70093	70845
CCLK	37.5902N	118.8242W	2630	2.7205	10.3596	48108	48965
CCVM	37.6098N	118.8733W	2260	6.9456	314.2251	91889	92639
CDOE	37.6387N	118.8355W	2220	8.0766	354.5447	80113	80970
CRSM	37.5107N	118.8822W	3680	8.5450	224.2985	77665	78522
CLLK	37.5788N	118.9050W	3030	8.6226	279.4502	69235	70092
CGRP	37.6265N	118.9013W	2208	10.5013	309.5750	97462	98210
CLCCR	37.6105N	118.9158W	2550	10.8846	296.8848	85261	86118
CLCC	37.6105N	118.9158W	2550	10.8846	296.8848	72321	73069
CMDW	37.6313N	118.9162W	2350	12.1350	306.5205	95746	96603
CCSR	37.6777N	118.8183W	2122	12.4054	5.3032	92640	93497
CCHS	37.6550N	118.9045W	2420	12.9712	319.3538	94141	94887
CYMC	37.6255N	118.9362W	2340	13.6677	298.7812	98211	98957
CCSW	37.6442N	118.9282W	2280	14.0621	307.9475	98958	99815
CBNY	37.6408N	118.9358W	2325	14.5209	304.7224	99816	100673
CRCCR	37.4877N	118.7217W	2804	14.7186	126.0381	86977	87722
CSHLR	37.6167N	118.9550W	2530	15.1480	291.7249	83545	84402
CSHL	37.6167N	118.9550W	2530	15.1480	291.7249	76807	77664
CSHLN	37.6167N	118.9550W	2530	15.1480	291.7249	94888	95745
CEMH	37.6663N	118.9392W	2495	16.5716	312.0159	71577	72320
CTAC	37.6317N	118.9650W	2398	16.8333	295.5701	78523	79254
CMLK	37.6643N	118.9750W	2670	19.5916	303.7024	79255	80112
CORCR	37.6353N	118.6560W	2301	20.6859	68.2546	75332	76073
CLMC	37.7288N	118.9465W	2540	22.2791	323.9041	73070	73807
CMMP	37.6100N	119.0280W	2870	22.7258	282.3645	96604	97461
CSKI	37.6530N	119.0238W	2660	23.7657	293.8799	93498	94140
CWMDR	37.4435N	118.6370W	1683	25.2718	122.4219	47371	48107
CSCHR	37.3658N	118.6870W	2365	27.1859	144.5535	76074	76806
CDMP	37.7080N	119.0458W	2550	28.8309	302.9968	91155	91888

CCASR	37.5748N	118.5515W	2107	30.8643	88.1921	68501	69234
CMGMR	37.8133N	118.6955W	2472	31.1001	28.4529	73808	74665
CBENR	37.7155N	118.5733W	2463	32.8784	59.8145	70846	71576
CLULR	38.0523N	119.1803W	2243	66.5207	323.9429	86119	86976
CMMCR	38.3608N	119.1283W	2548	94.0592	339.2197	74666	75331
CMNPN	37.4150N	119.7283W	1000	101.5543	260.5330	63789	64646
CMNP	37.4150N	119.7283W	1000	101.5543	260.5330	63113	63788
CFRI	36.9917N	119.7083W	119	116.8196	237.0107	67842	68500
CMAT	37.8733N	119.8667W	1353	120.4554	286.3848	60120	60780
CMHD	37.1235N	119.8923W	180	128.1904	247.5344	33016	33873
CMYL	37.3780N	120.4197W	84	178.3705	263.3044	33874	34500
CMST	37.9045N	120.4048W	366	179.4140	282.0410	66363	66983
CMCH	38.0187N	120.5095W	475	193.7077	284.9771	60781	61396
CMOY	37.9000N	120.5673W	176	197.0487	280.8020	64647	65504
CPWM	36.4328N	120.2110W	72	198.9500	230.7693	87723	88580
CWKT	35.7940N	118.4425W	890	202.0255	167.6855	81829	82686
CPHB	36.2488N	120.0827W	100	202.4562	223.6905	88581	89438
CMRF	38.2453N	120.5207W	799	202.8279	291.7446	65505	66362
CMCU	37.9727N	120.6170W	336	204.1080	282.7283	61397	62254
CWCH	35.8830N	118.0747W	2475	205.4025	155.8242	80971	81828
CPDR	36.3357N	120.3687W	488	219.4680	231.4826	89439	90296
CPKE	36.0615N	120.1090W	288	220.0254	220.4764	90297	91154
CPAR	36.2492N	120.3420W	485	223.3795	229.0692	8134	8991
CWOF	35.5357N	118.7125W	1341	226.7656	176.7231	82687	83544
CMNH	38.1458N	120.8137W	219	230.1189	286.1799	62255	63112
CBRM	36.8450N	120.8237W	372	236.1927	250.2274	43939	44796
CBMS	36.6630N	120.7918W	811	240.6074	245.4019	19288	20145
CSRT	35.6918N	117.7493W	698	241.1066	150.0244	66984	67841
CAOD	38.6148N	120.7285W	520	241.3802	298.7598	38791	39648
CPCR	36.0938N	120.4347W	296	242.7079	227.5715	7276	8133
CADW	38.4392N	120.8482W	251	244.7776	293.2529	34501	35358
CTNKR	39.2675N	120.2358W	2666	245.5980	320.2996	84403	85260
CPRC	36.2562N	120.6200W	623	247.1716	233.9195	11566	12423
CPCA	35.9317N	120.3370W	1189	247.8291	222.7720	5560	6417
CPSM	36.0697N	120.5947W	988	257.9045	229.8055	8992	9849
CPHR	36.3730N	120.8183W	732	258.3921	239.1492	12424	13281
CHSL	37.0193N	121.0855W	520	258.5630	256.4583	57546	58403
CALA	38.5667N	120.9562W	293	261.5745	295.0591	37933	38790
CPHGV	35.8760N	120.4835W	792	263.6421	224.4600	4702	5559
CHCP	37.1945N	121.1847W	513	265.5740	261.0935	48966	49823
CBAVZ	36.6458N	121.0298W	604	265.6892	247.4081	21004	21861
CBAVV	36.6458N	121.0298W	604	265.6892	247.4081	20146	21003
CPPT	36.1083N	120.7212W	506	266.1709	232.4764	10708	11565
CARJ	38.6865N	120.9563W	460	267.5264	297.6396	40507	41364
CBBG	36.5783N	121.0385W	1097	269.5784	246.0130	18430	19287
CPWK	35.8145N	120.5112W	503	270.7598	223.9061	3844	4701
CBEM	36.6613N	121.0960W	488	271.8667	248.3409	27010	27867
CPBW	36.3150N	120.9292W	381	272.3521	239.3147	13282	14139
CBBN	36.5100N	121.0755W	448	276.5186	244.9207	17572	18429
CPIV	35.9065N	120.6823W	497	277.3286	228.2271	6418	7275
CHQRV	36.8337N	121.2127W	536	277.7319	253.0092	22720	23577
CAGI	38.8447N	120.9813W	305	278.5767	300.5796	36217	37074
CBEH	36.6647N	121.1742W	342	279.8472	249.0714	27868	28725
CHPLV	37.0522N	121.2900W	152	279.9822	258.2756	23578	24435
CAFD	38.9480N	120.9723W	549	283.7974	302.6814	35359	36216
CBVL	36.5752N	121.1890W	510	285.1189	247.3201	24436	25293

CHLT	36.8845N	121.3082W	183	286.3630	254.7110	55830	56687
CPSA	36.0253N	120.8883W	184	286.6724	233.2745	9850	10707
CBHR	36.7278N	121.2638W	213	286.8179	251.0932	32158	33015
CBPI	36.4900N	121.1735W	329	287.3767	245.4417	16714	17571
CHJS	36.8165N	121.2987W	215	287.4614	253.2032	54114	54971
CAHR	38.8543N	121.0705W	354	287.7095	299.7559	37075	37932
CBLR	36.6660N	121.2727W	232	290.0771	249.8726	28726	29583
CARR	38.7653N	121.1718W	127	292.9036	296.9788	41365	42222
CHFE	36.9833N	121.4015W	323	293.7622	257.3088	50682	51539
CBSL	36.7755N	121.3493W	155	294.2046	252.6712	29584	30441
CBCG	36.7092N	121.3433W	305	295.8794	251.2703	31300	32157
CBJO	36.6108N	121.3135W	1052	296.5151	249.0606	25294	26151
CCST	37.6392N	121.4982W	205	297.3044	271.5603	46513	47370
CHKR	36.9017N	121.4260W	66	298.5581	255.7284	54972	55829
CBSGV	36.4138N	121.2537W	192	299.1016	244.6739	15856	16713
CBVY	36.7493N	121.4133W	585	301.8911	252.5468	30442	31299
CARW	38.9563N	121.1622W	320	302.2976	300.6628	42223	43080
CAPR	38.8770N	121.2172W	133	303.2200	298.6375	39649	40506
CHSP	37.1152N	121.5157W	850	303.3906	260.5320	58404	59261
CHFH	36.8882N	121.4688W	101	303.5542	255.6761	51540	52397
CPMG	35.4298N	120.5203W	529	304.0735	218.4012	2128	2985
CPJLV	36.0898N	121.1555W	290	307.1260	237.6819	2986	3843
CBJC	36.5470N	121.3922W	207	307.2944	248.4083	26152	27009
CHSF	36.8120N	121.4995W	340	309.0818	254.3129	56688	57545
CHFP	36.7537N	121.4905W	705	309.9626	253.1098	52398	53255
CBSRV	36.6665N	121.5187W	395	315.9392	251.5931	21862	22719
CAVR	39.0245N	121.2708W	114	316.6150	300.7288	43081	43938
CHJG	36.7980N	121.5738W	171	317.4800	254.4468	53256	54113
CCMN	37.6275N	121.7083W	245	320.6570	271.2153	44797	45654
CHDL	36.8353N	121.6440W	204	323.9429	255.5235	49824	50681
CBPP	36.1687N	121.3780W	1591	324.0061	241.3479	14140	14997
CCSC	37.2852N	121.7725W	128	329.2715	264.5854	45655	46512
CBHS	36.3558N	121.5398W	646	330.8218	246.0247	14998	15855
CJBZ	37.0178N	121.8192W	213	338.5830	259.6707	59262	60119
CIRG1	0.0000	0.0000	0	13865.2539	107.4324	1270	2127
CWNVB	0.0000	0.0000	0	13865.2539	107.4324	412	1269

C*

C* ORIGINAL WAVEFORM CARDS

C5997	84	0520	210	WFC USGSWNVB			2	10	31.94	100	136	16	
C5997	84	0520	210	WFC USGSIRG1			2	10	31.94	100	136	16	
C5997	84	0520	210	WFC USGSPMG	35.4298N	120.5203W	529	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPJLV	36.0898N	121.1555W	290	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPWK	35.8145N	120.5112W	503	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPHGV	35.8760N	120.4835W	792	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPCA	35.9317N	120.3370W	1189	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPIV	35.9065N	120.6823W	497	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPCR	36.0938N	120.4347W	296	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPAR	36.2492N	120.3420W	485	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPSM	36.0697N	120.5947W	988	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPSA	36.0253N	120.8883W	184	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPPT	36.1083N	120.7212W	506	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPRC	36.2562N	120.6200W	623	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPHR	36.3730N	120.8183W	732	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSPBW	36.3150N	120.9292W	381	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSBPP	36.1687N	121.3780W	1591	2	10	31.94	100	136	16
C5997	84	0520	210	WFC USGSBHS	36.3558N	121.5398W	646	2	10	31.94	100	136	16

C5997	84	0520	210	WFC	USGSBSGV	36.4138N	121.2537W	192	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBPI	36.4900N	121.1735W	329	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBBN	36.5100N	121.0755W	448	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBBG	36.5783N	121.0385W	1097	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBMS	36.6630N	120.7913W	811	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBAVV	36.6458N	121.0290W	604	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBAVZ	36.6458N	121.0298W	604	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBSRV	36.6665N	121.5187W	395	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHQRV	36.8337N	121.2127W	536	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHPLV	37.0522N	121.2900W	152	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBVL	36.5752N	121.1890W	510	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBJO	36.6108N	121.3135W	1052	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBJC	36.5470N	121.3922W	207	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBEM	36.6613N	121.0960W	488	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBEH	36.6647N	121.1742W	342	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBLR	36.6660N	121.2727W	232	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBSL	36.7755N	121.3493W	155	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBVY	36.7493N	121.4133W	585	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBCG	36.7092N	121.3433W	305	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBHR	36.7278N	121.2638W	213	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMHD	37.1235N	119.8923W	180	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMYL	37.3780N	120.4197W	84	2	11	8.94	100	99	16
C5997	84	0520	210	WFC	USGSADW	38.4392N	120.8482W	251	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAFD	38.9480N	120.9723W	549	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAGI	38.8447N	120.9813W	305	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAHR	38.8543N	121.0705W	354	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSALA	38.5667N	120.9562W	293	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAOD	38.6148N	120.7285W	520	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAPR	38.8770N	121.2172W	133	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSARJ	38.6865N	120.9563W	460	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSARR	38.7653N	121.1718W	127	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSARW	38.9563N	121.1622W	320	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSAVR	39.0245N	121.2708W	114	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBRM	36.8450N	120.8237W	372	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSCMN	37.6275N	121.7083W	245	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSCSC	37.2852N	121.7725W	128	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSCST	37.6392N	121.4982W	205	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSWMDR	37.4435N	118.6370W	1683	2	10	51.34	100	117	16
C5997	84	0520	210	WFC	USGSCCK	37.5902N	118.8242W	2630	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHCP	37.1945N	121.1847W	513	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHDL	36.8353N	121.6440W	204	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHFE	36.9833N	121.4015W	323	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHFH	36.8882N	121.4688W	101	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHFP	36.7537N	121.4905W	705	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHJG	36.7980N	121.5738W	171	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHJS	36.8165N	121.2987W	215	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHKR	36.9017N	121.4260W	66	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHLT	36.8845N	121.3082W	183	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHSF	36.8120N	121.4995W	340	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHSL	37.0193N	121.0855W	520	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSHSP	37.1152N	121.5157W	850	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSJBZ	37.0178N	121.8192W	213	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMAT	37.8733N	119.8667W	1353	2	11	3.42	100	105	16
C5997	84	0520	210	WFC	USGSMCH	38.0187N	120.5095W	475	2	11	10.70	100	98	16
C5997	84	0520	210	WFC	USGSMCU	37.9727N	120.6170W	336	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMNH	38.1458N	120.8137W	219	2	10	31.94	100	136	16

C5997	84	0520	210	WFC	USGSMNP	37.4150N	119.7283W	1000	2	11	1.02	100	107	16
C5997	84	0520	210	WFC	USGSMNP	37.4150N	119.7283W	1000	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMOY	37.9000N	120.5673W	176	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMRF	38.2453N	120.5207W	799	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMST	37.9045N	120.4048W	366	2	11	9.18	100	98	16
C5997	84	0520	210	WFC	USGSSRT	35.6918N	117.7493W	698	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSFRI	36.9917N	119.7083W	119	2	11	3.74	100	105	16
C5997	84	0520	210	WFC	USGSCASR	37.5748N	118.5515W	2107	2	10	51.74	100	117	16
C5997	84	0520	210	WFC	USGSLLK	37.5788N	118.9050W	3030	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSLCKR	37.5902N	118.8242W	2630	2	10	48.70	100	120	16
C5997	84	0520	210	WFC	USGSBENR	37.7155N	118.5733W	2463	2	10	52.30	100	116	16
C5997	84	0520	210	WFC	USGSEMH	37.6663N	118.9392W	2495	2	10	50.22	100	118	16
C5997	84	0520	210	WFC	USGSLCC	37.6105N	118.9158W	2550	2	10	49.34	100	119	16
C5997	84	0520	210	WFC	USGSLMC	37.7288N	118.9465W	2540	2	10	51.18	100	117	16
C5997	84	0520	210	WFC	USGSMGMR	37.8133N	118.6955W	2472	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMPCR	38.3608N	119.1283W	2548	2	11	2.62	100	106	16
C5997	84	0520	210	WFC	USGSORCR	37.6353N	118.6560W	2301	2	10	50.54	100	118	16
C5997	84	0520	210	WFC	USGSSCHR	37.3658N	118.6870W	2365	2	10	51.90	100	116	16
C5997	84	0520	210	WFC	USGSSHL	37.6167N	118.9550W	2530	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSRSM	37.5107N	118.8822W	3680	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSTAC	37.6317N	118.9650W	2398	2	10	50.06	100	116	16
C5997	84	0520	210	WFC	USGSLMK	37.6643N	118.9750W	2670	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSDOE	37.6387N	118.8355W	2220	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSWCH	35.8830N	118.0747W	2475	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSWKT	35.7940N	118.4425W	890	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSWOF	35.5357N	118.7125W	1341	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSSHLR	37.6167N	118.9550W	2530	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSTNKR	39.2675N	120.2358W	2666	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSLCCR	37.6105N	118.9158W	2550	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSLULR	38.0523N	119.1803W	2243	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSRCCR	37.4877N	118.7217W	2804	2	10	49.90	100	118	16
C5997	84	0520	210	WFC	USGSPWM	36.4328N	120.2110W	72	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSPHB	36.2488N	120.0827W	100	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSPDR	36.3357N	120.3687W	488	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSPKE	36.0615N	120.1090W	288	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSDMP	37.7080N	119.0458W	2550	2	10	51.82	100	116	16
C5997	84	0520	210	WFC	USGSCVM	37.6098N	118.8733W	2260	2	10	49.02	100	119	16
C5997	84	0520	210	WFC	USGSCSR	37.6777N	118.8183W	2122	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSSKI	37.6530N	119.0238W	2660	2	10	51.02	100	102	16
C5997	84	0520	210	WFC	USGSCHS	37.6550N	118.9045W	2420	2	10	49.74	100	119	16
C5997	84	0520	210	WFC	USGSSHLN	37.6167N	118.9550W	2530	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMDW	37.6313N	118.9162W	2350	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSMMP	37.6100N	119.0280W	2870	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSGRP	37.6265N	118.9013W	2208	2	10	49.34	100	119	16
C5997	84	0520	210	WFC	USGSYMC	37.6255N	118.9362W	2340	2	10	49.74	100	119	16
C5997	84	0520	210	WFC	USGSCSW	37.6442N	118.9282W	2280	2	10	31.94	100	136	16
C5997	84	0520	210	WFC	USGSBNY	37.6408N	118.9358W	2325	2	10	31.94	100	136	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C* LINES

C* ITEM START END

C*

C* PHC 805 842

C* STA 843 866

C* SAT 867 957

C*	SPC	958	2442
C*	CQ1	2443	2472
C*	CQ2	2473	2574
C*	CQ3	2575	2694
C*	WFC	2695	2717

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

		LINES	
C*	STATION	START	END
C*			
C*	CLK	2718	3344
C*	CVM	3345	3971
C*	DOE	3972	4598
C*	GRP	4599	5225
C*	LCC	5226	5852
C*	CSR	5853	6479
C*	CHS	6480	7106
C*	YMC	7107	7733
C*	BNY	7734	8360
C*	RCCR	8361	8987
C*	SHLN	8988	9614
C*	EMH	9615	10241
C*	TAC	10242	10868
C*	MLK	10869	11495
C*	ORCR	11496	12122
C*	LMC	12123	12749
C*	MMP	12750	13376
C*	SKI	13377	14003
C*	WMDR	14004	14630
C*	SCHR	14631	15257
C*	DMP	15258	15884
C*	CASR	15885	16511
C*	BENR	16512	17138

C*END-----

5997	84	0520	210	SUC	56.82	37.5660N	118.8286W	8.70A	2.8D	27	80	2	.10
5997	84	0520	211	PHC	USGSMHD	EP4	15.02						
5997	84	0520	211	PHC	USGSMYL	P4	20.68						
5997	84	0520	211	PHC	USGSWMDR	IPU0	1.20						
5997	84	0520	210	PHC	USGSCLK	IPU0	58.62						
5997	84	0520	211	PHC	USGSMAT	EPU2	13.30						
5997	84	0520	211	PHC	USGSMCH	P4	22.40						
5997	84	0520	211	PHC	USGSMNP	IPU0	10.83						
5997	84	0520	211	PHC	USGSMST	P4	20.41						
5997	84	0520	211	PHC	USGSFRI	EPD3	13.95						

***** 16324 data cards not shown here *****

C#FINIS DSN=SL000092

Table SL000093

C#DSN=SL000093;SIZE=011976;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=062;STRT=000001;
 C*DATE: 19850430; 0; 840525A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840525; 19840525; 37.545N; 37.545N; 118.783W; 118.783W; ; 6259;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840525 AT 11:18
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCLK	37.5902N	118.8242W	2630	6.7869	317.8523	17333	18075
CCLKR	37.5902N	118.8242W	2630	6.7869	317.8523	29448	30190
CRCCR	37.4877N	118.7217W	2804	9.3150	132.5872	42313	42946
CRSM	37.5107N	118.8822W	3680	11.6359	251.1469	35974	36716
CDOE	37.6387N	118.8355W	2220	11.9097	330.7944	38081	38711
CCVM	37.6098N	118.8733W	2260	12.3393	305.6978	44752	45494
CLLK	37.5788N	118.9050W	3030	14.0643	285.5547	28705	29447
CCSR	37.6777N	118.8183W	2122	15.2154	345.1606	45495	46121
CGRP	37.6265N	118.9013W	2208	15.9509	304.5488	49787	50415
CLCCR	37.6105N	118.9158W	2550	16.4492	296.2593	40941	41569
CLCC	37.6105N	118.9158W	2550	16.4492	296.2593	31429	32171
CORCR	37.6353N	118.6560W	2301	17.3550	54.7373	33979	34605
CMDW	37.6313N	118.9162W	2350	17.6250	302.9153	47915	48541
CCHS	37.6550N	118.9045W	2420	18.1888	312.1138	46546	47171
CCEN	37.6338N	118.9272W	2280	18.8085	301.5952	48542	49167
CYMC	37.6255N	118.9362W	2340	19.2258	297.6975	50416	51158
CCSW	37.6442N	118.9282W	2280	19.5276	304.2954	51159	51783
CWMDR	37.4435N	118.6370W	1683	19.7643	124.4971	16708	17332
CBNY	37.6408N	118.9358W	2325	20.0300	302.0422	51784	52408
CSHLN	37.6167N	118.9550W	2530	20.7078	292.6145	47172	47914
CSHLR	37.6167N	118.9550W	2530	20.7078	292.6145	40198	40940
CSHL	37.6167N	118.9550W	2530	20.7078	292.6145	35349	35973
CEMH	37.6663N	118.9392W	2495	21.9557	307.7698	30806	31428
CTAC	37.6317N	118.9650W	2398	22.3997	295.4375	36717	37459
CSCHR	37.3658N	118.6870W	2365	22.5095	151.5532	34606	35348
CMLK	37.6643N	118.9750W	2670	25.1086	301.7881	37460	38080
CCASR	37.5748N	118.5515W	2107	26.0196	82.6482	28084	28704
CLMC	37.7288N	118.9465W	2540	27.2864	318.2517	32172	32788
CMMP	37.6100N	119.0280W	2870	28.1834	284.8477	49168	49786

CSKI	37.6530N	119.0238W	2660	29.3313	294.0991	46122	46545
CBENR	37.7155N	118.5733W	2463	30.0532	51.0645	30191	30805
CMGNR	37.8133N	118.6955W	2472	31.2658	18.2163	32789	33531
CDMP	37.7080N	119.0458W	2550	34.3523	301.7109	44433	44751
CLULR	38.0523N	119.1803W	2243	71.4430	321.7839	41570	42312
CMMCR	38.3608N	119.1283W	2548	98.1245	336.9529	33532	33978
CMNP	37.4150N	119.7283W	1000	106.1906	262.2349	24558	25111
CFRI	36.9917N	119.7083W	119	119.8658	239.2691	27341	28083
CMAT	37.8733N	119.8667W	1353	125.9609	286.7656	21791	22328
CMHD	37.1235N	119.8923W	180	132.0196	249.3163	12993	13735
CMYL	37.3780N	120.4197W	84	183.1320	264.2207	13736	14478
CMST	37.9045N	120.4048W	366	184.8415	282.4290	26598	27340
CWKT	35.7940N	118.4425W	890	198.6972	168.9651	38712	39454
CMCH	38.0187N	120.5095W	475	199.1894	285.2563	22329	23071
CPWM	36.4328N	120.2110W	72	201.4415	232.1972	42947	43689
CMOY	37.9000N	120.5673W	176	202.4482	281.1892	25112	25854
CMRF	38.2453N	120.5207W	799	208.3824	291.8320	25855	26597
CMCU	37.9727N	120.6170W	336	209.5487	283.0527	23072	23814
CPDR	36.3357N	120.3687W	488	222.0167	232.7704	43690	44432
CWOF	35.5357N	118.7125W	1341	224.1771	177.9792	39455	40197
CPAR	36.2492N	120.3420W	485	225.7176	230.3615	2591	3333
CMNH	38.1458N	120.8137W	219	235.6179	286.3879	23815	24557
CBRM	36.8450N	120.8237W	372	240.1846	251.1636	15222	15964
CBMS	36.6630N	120.7918W	811	244.2620	246.3974	7049	7791
CPCR	36.0938N	120.4347W	296	244.9098	228.7763	1848	2590
CADW	38.4392N	120.8482W	251	250.3366	293.2920	14479	15221
CPHR	36.3730N	120.8183W	732	261.5698	240.1597	3334	4076
CHSL	37.0193N	121.0855W	520	262.9465	257.2148	21048	21790
CBAVV	36.6458N	121.0298W	604	269.4858	248.2830	7792	8534
CHCP	37.1945N	121.1847W	513	270.2170	261.7527	18076	18818
CBBG	36.5783N	121.0385W	1097	273.2756	246.8948	6306	7048
CBEM	36.6613N	121.0960W	488	275.7280	249.1832	10764	11506
CBRV	36.4248N	121.0183W	541	278.4795	243.4750	4077	4819
CBBN	36.5100N	121.0755W	448	280.1360	245.7950	5563	6305
CHQRV	36.8337N	121.2127W	536	281.9036	253.7670	8535	9277
CBEH	36.6647N	121.1742W	342	283.7590	249.8799	11507	12249
CHPLV	37.0522N	121.2900W	152	284.4709	258.9468	9278	10020
CBVL	36.5752N	121.1890W	510	288.9084	248.1374	10021	10763
CHLT	36.8845N	121.3082W	183	290.6411	255.4213	20305	21047
CBHR	36.7278N	121.2638W	213	290.8650	251.8545	12250	12992
CBPI	36.4900N	121.1735W	329	291.0312	246.2769	4820	5562
CHJS	36.8165N	121.2987W	215	291.6455	253.9329	19562	20304
CHFE	36.9833N	121.4015W	323	298.1951	257.9634	18819	19561
CCA0V	37.3493N	121.5327W	628	306.8955	265.9607	15965	16707
CWQVB	0.0000	0.0000	0	13859.8203	107.4297	362	1104
CIRG1	0.0000	0.0000	0	13859.8203	107.4297	1105	1847

C*

C* ORIGINAL WAVEFORM CARDS

C6259	84	0525	1118	WFC	USGSWWVB	296	11	17	36.46	100	118	16		
C6259	84	0525	1118	WFC	USGSIRG1	107	11	17	36.46	100	118	16		
C6259	84	0525	1118	WFC	USGSPCR	36.0938N	120.4347W	296	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSPAR	36.2492N	120.3420W	485	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSPHR	36.3730N	120.8183W	732	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBRV	36.4248N	121.0183W	541	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBPI	36.4900N	121.1735W	329	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBBN	36.5100N	121.0755W	448	11	17	36.46	100	118	16

C6259	84	0525	1118	WFC	USGSBBG	36.5783N	121.0385W	1097	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBMS	36.6630N	120.7918W	811	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBAVV	36.6458N	121.0298W	604	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHQRV	36.8337N	121.2127W	536	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHPLV	37.0522N	121.2900W	152	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBVL	36.5752N	121.1890W	510	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBEM	36.6613N	121.0960W	488	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBEH	36.6647N	121.1742W	342	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBHR	36.7278N	121.2638W	213	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMHD	37.1235N	119.8923W	180	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMYL	37.3780N	120.4197W	84	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSADW	38.4392N	120.8482W	251	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBRM	36.8450N	120.8237W	372	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSCAOV	37.3493N	121.5327W	628	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSWMDR	37.4435N	118.6370W	1683	11	17	55.28	100	99	16
C6259	84	0525	1118	WFC	USGSCLK	37.5902N	118.8242W	2630	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHCP	37.1945N	121.1847W	513	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHFE	36.9833N	121.4015W	323	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHJS	36.8165N	121.2987W	215	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHLT	36.8845N	121.3082W	183	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSHSL	37.0193N	121.0855W	520	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMAT	37.8733N	119.8667W	1353	11	18	9.24	100	85	16
C6259	84	0525	1118	WFC	USGSMCH	38.0187N	120.5095W	475	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMCU	37.9727N	120.6170W	336	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMNH	38.1458N	120.8137W	219	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMNP	37.4150N	119.7283W	1000	11	18	6.71	100	88	16
C6259	84	0525	1118	WFC	USGSMOY	37.9000N	120.5673W	176	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMRF	38.2453N	120.5207W	799	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMST	37.9045N	120.4048W	366	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSFRI	36.9917N	119.7083W	119	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSCASR	37.5748N	118.5515W	2107	11	17	55.89	100	99	16
C6259	84	0525	1118	WFC	USGSLLK	37.5788N	118.9050W	3030	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSLCKR	37.5902N	118.8242W	2630	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSBENR	37.7155N	118.5733W	2463	11	17	56.87	100	98	16
C6259	84	0525	1118	WFC	USGSEMH	37.6663N	118.9392W	2495	11	17	55.64	100	99	16
C6259	84	0525	1118	WFC	USGSLCC	37.6105N	118.9158W	2550	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSLMC	37.7288N	118.9465W	2540	11	17	56.61	100	98	16
C6259	84	0525	1118	WFC	USGSMGHR	37.8133N	118.6955W	2472	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMOCR	38.3608N	119.1283W	2548	11	18	8.29	100	71	16
C6259	84	0525	1118	WFC	USGSORCR	37.6353N	118.6560W	2301	11	17	54.93	100	99	16
C6259	84	0525	1118	WFC	USGSSCHR	37.3658N	118.6870W	2365	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSSHL	37.6167N	118.9550W	2530	11	17	55.28	100	99	16
C6259	84	0525	1118	WFC	USGSRSM	37.5107N	118.8822W	3680	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSTAC	37.6317N	118.9650W	2398	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMMLK	37.6643N	118.9750W	2670	11	17	56.02	100	98	16
C6259	84	0525	1118	WFC	USGSDOE	37.6387N	118.8355W	2220	11	17	54.32	100	100	16
C6259	84	0525	1118	WFC	USGSWKT	35.7940N	118.4425W	890	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSWOF	35.5357N	118.7125W	1341	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSSHLR	37.6167N	118.9550W	2530	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSLCCR	37.6105N	118.9158W	2550	11	17	54.72	100	100	16
C6259	84	0525	1118	WFC	USGSLULR	38.0523N	119.1803W	2243	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSRCCR	37.4877N	118.7217W	2804	11	17	53.83	100	101	16
C6259	84	0525	1118	WFC	USGSPWM	36.4328N	120.2110W	72	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSPDR	36.3357N	120.3687W	488	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSDMP	37.7080N	119.0454W	2550	11	17	57.36	100	50	16
C6259	84	0525	1118	WFC	USGSCVM	37.6098N	118.8733W	2260	11	17	36.46	100	118	16

C6259	84	0525	1118	WFC	USGSCSR	37.6777N	118.8183W	2122	11	17	54.93	100	99	16
C6259	84	0525	1118	WFC	USGSSKI	37.6530N	119.0238W	2660	11	17	56.51	100	67	16
C6259	84	0525	1118	WFC	USGSCHS	37.6550N	118.9045W	2420	11	17	55.13	100	99	16
C6259	84	0525	1118	WFC	USGSSHLN	37.6167N	118.9550W	2530	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSMDW	37.6313N	118.9162W	2350	11	17	54.95	100	99	16
C6259	84	0525	1118	WFC	USGSCEN	37.6338N	118.9272W	2280	11	17	55.10	100	99	16
C6259	84	0525	1118	WFC	USGSMMP	37.6100N	119.0280W	2870	11	17	56.23	100	98	16
C6259	84	0525	1118	WFC	USGSGRP	37.6265N	118.9013W	2208	11	17	54.72	100	100	16
C6259	84	0525	1118	WFC	USGSYMC	37.6255N	118.9362W	2340	11	17	36.46	100	118	16
C6259	84	0525	1118	WFC	USGSCSW	37.6442N	118.9282W	2280	11	17	55.24	100	99	16
C6259	84	0525	1118	WFC	USGSBNY	37.6408N	118.9358W	2325	11	17	55.29	100	99	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	712	745
C*	STA	746	768
C*	SAT	769	836
C*	SPC	837	2051
C*	CQ1	2052	2069
C*	CQ2	2070	2171
C*	CQ3	2172	2273
C*	WFC	2274	2295

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	CLKR	2296	2735
C*	RCCR	2736	3175
C*	DOE	3176	3615
C*	CSR	3616	4055
C*	GRP	4056	4495
C*	LCCR	4496	4935
C*	ORCR	4936	5375
C*	MDW	5376	5815
C*	CHS	5816	6255
C*	CEN	6256	6695
C*	CSW	6696	7135
C*	WMDR	7136	7575
C*	BNY	7576	8015
C*	SHL	8016	8455
C*	EMH	8456	8895
C*	SCHR	8896	9335
C*	MLK	9336	9775
C*	CASR	9776	10215
C*	LMC	10216	10655
C*	MMP	10656	11095
C*	SKI	11096	11535
C*	BENR	11536	11975

C*END-----

6259	84	0525	1118	SUC	1.72	37.5447N	118.7833W	4.97A	2.3D	24	103	6	.12	
6259	84	0525	1118	PHC	USGSWMDR	IPU1	5.28							

6259	84	0525	1118	PHC	USGSCLK	IPD0	3.25
6259	84	0525	1118	PHC	USGSMAT	EPU3	19.06
6259	84	0525	1118	PHC	USGSMNP	IPU1	16.42
6259	84	0525	1118	PHC	USGSCASR	EPD2	6.02
6259	84	0525	1118	PHC	USGSLLK	P4	3.34
6259	84	0525	1118	PHC	USGSBENR	EPD2	6.65
6259	84	0525	1118	PHC	USGSEMH	IPD1	5.72
6259	84	0525	1118	PHC	USGSLMC	EPD2	6.87

***** 11254 data cards not shown here *****

C#FINIS DSN=SL000093

Table SL000094

C#DSN=SL000094;SIZE=009327;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=063;STRT=000001;
 C*DATE: 19850430; 0; 840601A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840601; 19840601; 37.457N; 37.457N; 118.842W; 118.842W; ; 6609;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840601 AT 14:07
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRSM	37.5107N	118.8822W	3680	7.3895	322.9280	22308	23237
CRCCR	37.4877N	118.7217W	2804	13.8289	75.9705	25769	26407
CCLKR	37.5902N	118.8242W	2630	14.8236	7.7651	16521	17341
CCLK	37.5902N	118.8242W	2630	14.8236	7.7651	7646	8575
CCVM	37.6098N	118.8733W	2260	17.2080	348.3875	27338	28267
CLCC	37.6105N	118.9158W	2550	18.8121	334.1750	17892	18258
CGRP	37.6265N	118.9013W	2208	19.8257	340.6130	32278	32789
CSCHR	37.3658N	118.6870W	2365	20.0348	120.3928	20792	21721
CDOE	37.6387N	118.8355W	2220	20.0650	2.1299	24358	24838
CMDW	37.6313N	118.9162W	2350	20.9234	336.8105	30418	31347
CSHL	37.6167N	118.9550W	2530	21.6365	324.5171	21722	22307
CSHLN	37.6167N	118.9550W	2530	21.6365	324.5171	30128	30417
CCSW	37.6442N	118.9282W	2280	22.7700	335.1306	32790	33157
CBNY	37.6408N	118.9358W	2325	22.8033	332.8040	33158	34087
CWMDR	37.4435N	118.6370W	1683	22.8996	93.8508	6829	7645
CCHS	37.6550N	118.9045W	2420	22.9273	342.3906	29622	30127
CTAC	37.6317N	118.9650W	2398	23.6329	324.6545	23238	23427
CCSR	37.6777N	118.8183W	2122	24.5080	6.2314	28268	28691
CEMH	37.6663N	118.9392W	2495	25.5023	334.9473	17342	17891
CMMP	37.6100N	119.0280W	2870	26.6979	309.2107	31348	32277
CMLK	37.6643N	118.9750W	2670	27.2435	327.1301	23428	24357
CORCR	37.6353N	118.6560W	2301	28.5792	46.4934	19982	20791
CSKI	37.6530N	119.0238W	2660	29.6097	316.9341	28692	29621
CLMC	37.7288N	118.9465W	2540	32.1807	338.8477	18259	19188
CCASR	37.5748N	118.5515W	2107	34.8722	68.1382	16216	16520
CDMP	37.7080N	119.0458W	2550	35.8017	320.7173	26408	27337
CMGMR	37.8133N	118.6955W	2472	42.6065	22.5378	19189	19981
CMNP	37.4150N	119.7283W	1000	98.7773	267.2773	11742	12495
CFRI	36.9917N	119.7083W	119	109.4162	241.8617	15286	16215

CMHD	37.1235N	119.8923W	180	122.6686	252.4558	3109	4038
CMAT	37.8733N	119.8667W	1353	122.9727	291.9600	8576	8951
CMYL	37.3780N	120.4197W	84	175.8756	267.1367	4039	4968
CMST	37.9045N	120.4048W	366	180.8406	285.8643	14356	15285
CWKT	35.7940N	118.4425W	890	190.6625	166.4685	24839	25768
CMCH	38.0187N	120.5095W	475	195.7109	288.4888	8952	9881
CMOY	37.9000N	120.5673W	176	198.1803	284.2961	12496	13425
CMCU	37.9727N	120.6170W	336	205.6268	286.0864	9882	10811
CMRF	38.2453N	120.5207W	799	206.1874	294.9995	13426	14355
CMNH	38.1458N	120.8137W	219	232.3065	289.1282	10812	11741
CBMS	36.6630N	120.7918W	811	234.4955	247.9181	2179	3108
CADW	38.4392N	120.8482W	251	248.3710	295.9343	4969	5898
CARJ	38.6865N	120.9563W	460	271.9485	300.0264	5899	6828
CIRG1	0.0000	0.0000	0	13863.6602	107.3843	1249	2178
CWVVB	0.0000	0.0000	0	13863.6602	107.3843	319	1248

C*

C* ORIGINAL WAVEFORM CARDS

C6609	84	06	1	14	7	WFC	USGSWVVB		14	7	27.32	100	148	16	
C6609	84	06	1	14	7	WFC	USGSIRG1		14	7	27.32	100	148	16	
C6609	84	06	1	14	7	WFC	USGSBMS	36.6630N 120.7918W	811	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMHD	37.1235N 119.8923W	180	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMYL	37.3780N 120.4197W	84	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSADW	38.4392N 120.8482W	251	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSARJ	38.6865N 120.9563W	460	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSWMDR	37.4435N 118.6370W	1683	14	7	45.32	100	130	16
C6609	84	06	1	14	7	WFC	USGSCLK	37.5902N 118.8242W	2630	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMAT	37.8733N 119.8667W	1353	14	7	58.96	100	59	16
C6609	84	06	1	14	7	WFC	USGSMCH	38.0187N 120.5095W	475	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMCU	37.9727N 120.6170W	336	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMNH	38.1458N 120.8137W	219	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMNP	37.4150N 119.7283W	1000	14	7	55.44	100	120	16
C6609	84	06	1	14	7	WFC	USGSMOY	37.9000N 120.5673W	176	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMRF	38.2453N 120.5207W	799	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMST	37.9045N 120.4048W	366	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSFRI	36.9917N 119.7083W	119	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSCASR	37.5748N 118.5515W	2107	14	7	47.08	100	48	16
C6609	84	06	1	14	7	WFC	USGSCLKR	37.5902N 118.8242W	2630	14	7	44.64	100	131	16
C6609	84	06	1	14	7	WFC	USGSEMH	37.6663N 118.9392W	2495	14	7	46.28	100	87	16
C6609	84	06	1	14	7	WFC	USGSLCC	37.6105N 118.9158W	2550	14	7	45.16	100	58	16
C6609	84	06	1	14	7	WFC	USGSLMC	37.7288N 118.9465W	2540	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSMGMR	37.8133N 118.6955W	2472	14	7	49.20	100	126	16
C6609	84	06	1	14	7	WFC	USGSORCR	37.6353N 118.6560W	2301	14	7	46.52	100	129	16
C6609	84	06	1	14	7	WFC	USGSSCHR	37.3658N 118.6870W	2365	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSSHL	37.6167N 118.9550W	2530	14	7	45.52	100	93	16
C6609	84	06	1	14	7	WFC	USGSRSM	37.5107N 118.8822W	3680	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSTAC	37.6317N 118.9650W	2398	14	7	45.84	100	30	16
C6609	84	06	1	14	7	WFC	USGSMLK	37.6643N 118.9750W	2670	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSDOE	37.6387N 118.8355W	2220	14	7	45.52	100	76	16
C6609	84	06	1	14	7	WFC	USGSWKT	35.7940N 118.4425W	890	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSRCCR	37.4877N 118.7217W	2804	14	7	44.12	100	101	16
C6609	84	06	1	14	7	WFC	USGSDMP	37.7080N 119.0458W	2550	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSCVM	37.6098N 118.8733W	2260	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSCSR	37.6777N 118.8183W	2122	14	7	46.28	100	67	16
C6609	84	06	1	14	7	WFC	USGSSKI	37.6530N 119.0238W	2660	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC	USGSCHS	37.6550N 118.9045W	2420	14	7	45.92	100	80	16
C6609	84	06	1	14	7	WFC	USGSSHLN	37.6167N 118.9550W	2530	14	7	45.52	100	46	16

C6609	84	06	1	14	7	WFC USGSMDW	37.6313N	118.9162W	2350	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC USGSMMP	37.6100N	119.0280W	2870	14	7	27.32	100	148	16
C6609	84	06	1	14	7	WFC USGSGRP	37.6265N	118.9013W	2208	14	7	45.40	100	81	16
C6609	84	06	1	14	7	WFC USGSCSW	37.6442N	118.9282W	2280	14	7	45.84	100	58	16
C6609	84	06	1	14	7	WFC USGSBNY	37.6408N	118.9358W	2325	14	7	27.32	100	148	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	645	666
C*	STA	667	684
C*	SAT	685	741
C*	SPC	742	1661
C*	CQ1	1662	1667
C*	CQ2	1668	1745
C*	CQ3	1746	1829
C*	WFC	1830	1846

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	RSM	1847	2286
C*	RCCR	2287	2726
C*	CLKR	2727	3166
C*	LCC	3167	3606
C*	GRP	3607	4046
C*	SCHR	4047	4486
C*	DOE	4487	4926
C*	SHL	4927	5366
C*	CSW	5367	5806
C*	BNY	5807	6246
C*	WMDR	6247	6686
C*	CHS	6687	7126
C*	CSR	7127	7566
C*	EMH	7567	8006
C*	ORCR	8007	8446
C*	CASR	8447	8886
C*	MGNR	8887	9326

C*END-

6609	84	06	1	14	7	SUC	51.49	37.4574N	118.8422W	5.76A	2.0D	19	140	11	.08
6609	84	06	1	14	7	PHC USGSWMDR	IPD0	55.18							
6609	84	06	1	14	8	PHC USGSMAT	EPD3	8.73							
6609	84	06	1	14	8	PHC USGSMNP	EPU2	5.26							
6609	84	06	1	14	7	PHC USGSCASR	IPD0	57.04							
6609	84	06	1	14	7	PHC USGSCCLKR	IPU0	54.55							
6609	84	06	1	14	7	PHC USGSEMH	IPD0	56.39							
6609	84	06	1	14	7	PHC USGSLCC	IPD0	55.19							
6609	84	06	1	14	7	PHC USGSMGMR	IPU0	59.20							
6609	84	06	1	14	7	PHC USGSORCR	IPU0	56.43							

***** 8672 data cards not shown here *****

C#FINIS DSN=SL000094

Table SL000095

C#DSN=SL000095;SIZE=004709;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=064;STRT=000001;
 C*DATE: 19850430; 0; 840604A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840604; 19840604; 37.469N; 37.469N; 118.614W; 118.614W; ; 6762;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840604 AT 22:54
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	3.8250	222.7072	1497	1833
CRCCR	37.4877N	118.7217W	2804	12.2034	279.8115	6890	7223
CCASR	37.5748N	118.5515W	2107	13.6062	30.5913	2718	3048
CSCHR	37.3658N	118.6870W	2365	14.0281	215.5814	5016	5413
CORCR	37.6353N	118.6560W	2301	18.9956	345.6414	4618	5015
CCLKR	37.5902N	118.8242W	2630	27.0044	299.7864	3049	3286
CCLK	37.5902N	118.8242W	2630	27.0044	299.7864	1834	2231
CDOE	37.6387N	118.8355W	2220	31.0223	307.2520	6210	6491
CCSR	37.6777N	118.8183W	2122	32.4348	315.3899	7622	8019
CGRP	37.6265N	118.9013W	2208	36.4561	298.5598	9057	9363
GLCC	37.6105N	118.9158W	2550	37.1014	294.9674	3503	3821
CCHS	37.6550N	118.9045W	2420	38.3623	302.4436	8418	8658
CMGMR	37.8133N	118.6955W	2472	39.1537	346.5508	4220	4617
CCSW	37.6442N	118.9282W	2280	40.0230	298.9709	9364	9580
CBNY	37.6408N	118.9358W	2325	40.5877	297.9277	9581	9978
CSHLR	37.6167N	118.9550W	2530	41.3648	293.2759	6492	6889
CSHLN	37.6167N	118.9550W	2530	41.3648	293.2759	8659	9056
CSHL	37.6167N	118.9550W	2530	41.3648	293.2759	5414	5811
CEMH	37.6663N	118.9392W	2495	42.3050	301.0657	3287	3507
CMLK	37.6643N	118.9750W	2670	45.6614	298.2454	5812	6209
CLMC	37.7288N	118.9465W	2540	46.8903	307.8008	3822	4219
CSKI	37.6530N	119.0238W	2660	49.9908	294.0327	8020	8417
CDMP	37.7080N	119.0458W	2550	54.8925	298.7932	7224	7621
CMNP	37.4150N	119.7283W	1000	124.2507	267.2483	2467	2717
CMAT	37.8733N	119.8667W	1353	146.4791	287.7739	2232	2466
CMHD	37.1235N	119.8923W	180	147.4586	254.9659	1099	1496
CIRG1	0.0000	0.0000	0	13839.6875	107.4207	701	1098
CWWVB	0.0000	0.0000	0	13839.6875	107.4207	303	700

C*

C* ORIGINAL WAVEFORM CARDS

C6762	84	06	4	2254	WFC USGSWWVB				22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSIRG1				22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSMHD	37.1235N	119.8923W	180	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSWMDR	37.4435N	118.6370W	1683	22	54	8.71	100	53	16
C6762	84	06	4	2254	WFC USGSCLK	37.5902N	118.8242W	2630	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSMAT	37.8733N	119.8667W	1353	22	54	24.91	100	37	16
C6762	84	06	4	2254	WFC USGSMNP	37.4150N	119.7283W	1000	22	54	22.35	100	39	16
C6762	84	06	4	2254	WFC USGSCASR	37.5748N	118.5515W	2107	22	54	9.63	100	52	16
C6762	84	06	4	2254	WFC USGSCLKR	37.5902N	118.8242W	2630	22	54	11.05	100	37	16
C6762	84	06	4	2254	WFC USGSEMH	37.6663N	118.9392W	2495	22	54	13.17	100	34	16
C6762	84	06	4	2254	WFC USGSLCC	37.6105N	118.9158W	2550	22	54	12.33	100	49	16
C6762	84	06	4	2254	WFC USGSLMC	37.7288N	118.9465W	2540	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSMGMR	37.8133N	118.6955W	2472	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSORCR	37.6353N	118.6560W	2301	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSSCHR	37.3658N	118.6870W	2365	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSSHL	37.6167N	118.9550W	2530	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSMLK	37.6643N	118.9750W	2670	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSDOE	37.6387N	118.8355W	2220	22	54	11.71	100	44	16
C6762	84	06	4	2254	WFC USGSSHLR	37.6167N	118.9550W	2530	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSRCCR	37.4877N	118.7217W	2804	22	54	9.21	100	52	16
C6762	84	06	4	2254	WFC USGSDMP	37.7080N	119.0458W	2550	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSCSR	37.6777N	118.8183W	2122	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSSKI	37.6530N	119.0238W	2660	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSCHS	37.6550N	118.9045W	2420	22	54	12.65	100	38	16
C6762	84	06	4	2254	WFC USGSSHLN	37.6167N	118.9550W	2530	22	53	58.93	100	63	16
C6762	84	06	4	2254	WFC USGSGRP	37.6265N	118.9013W	2208	22	54	12.31	100	48	16
C6762	84	06	4	2254	WFC USGSCSW	37.6442N	118.9282W	2280	22	54	12.79	100	34	16
C6762	84	06	4	2254	WFC USGSBNY	37.6408N	118.9358W	2325	22	53	58.93	100	63	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	610	631
C*	STA	632	646
C*	SAT	647	679
C*	SPC	680	1094
C*	CQ1	1095	1100
C*	CQ2	1101	1130
C*	CQ3	1131	1166
C*	WFC	1167	1180

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*	STATION	START	END
C*	WMDR	1181	1432
C*	RCCR	1433	1684
C*	CASR	1685	1936
C*	SCHR	1937	2188
C*	ORCR	2189	2440
C*	CLK	2441	2692
C*	DOE	2693	2944

C*	CSR	2945	3196
C*	GRP	3197	3448
C*	LCC	3449	3700
C*	CHS	3701	3952
C*	CSW	3953	4204
C*	SHL	4205	4456
C*	EMH	4457	4708

C*END-----

6762	84	06	4	2254	SUC	16.17	37.4689N	118.6137W	12.83A	1.5D	17	184	3	.09
6762	84	06	4	2254	PHC	USGSWMDR	IPD0	18.64						
6762	84	06	4	2254	PHC	USGSCLK	IPU1	21.06						
6762	84	06	4	2254	PHC	USGSMAT	EP4	35.74						
6762	84	06	4	2254	PHC	USGSMNP	EP4	32.92						
6762	84	06	4	2254	PHC	USGSCASR	IPU0	19.59						
6762	84	06	4	2254	PHC	USGSCLKR	IPU0	21.07						
6762	84	06	4	2254	PHC	USGSEMH	IPU0	23.21						
6762	84	06	4	2254	PHC	USGSLCC	IPU0	22.20						
6762	84	06	4	2254	PHC	USGSMGMR	IPU1	23.67						

***** 4089 data cards not shown here *****

C#FINIS DSN=SL000095

Table SL000096

C#DSN=SL000096;SIZE=008876;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=065;STRT=000001;
 C*DATE: 19850430; 0; 840605A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840605; 19840605; 37.529N; 37.529N; 118.590W; 118.590W; ; 6788;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840605 AT 11:18
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCASR	37.5748N	118.5515W	2107	6.6912	40.0784	11077	11680
CWMDR	37.4435N	118.6370W	1683	10.7504	208.9915	4183	4783
CORCR	37.6353N	118.6560W	2301	13.8979	328.1855	13991	14664
CRCCR	37.4877N	118.7217W	2804	15.3204	252.8677	18618	19217
CSCHR	37.3658N	118.6870W	2365	20.9815	210.9114	14665	15338
CCLKR	37.5902N	118.8242W	2630	26.9305	284.6748	11681	12271
CCLK	37.5902N	118.8242W	2630	26.9305	284.6748	4784	5457
CDOE	37.6387N	118.8355W	2220	29.9041	294.0483	16818	17269
CCSR	37.6777N	118.8183W	2122	30.2826	303.0117	19892	20478
CRSM	37.5107N	118.8822W	3680	32.5699	266.5330	15881	16554
CCVM	37.6098N	118.8733W	2260	32.7755	285.9207	19218	19891
CMGMR	37.8133N	118.6955W	2472	33.6002	339.5813	12992	13571
CGRP	37.6265N	118.9013W	2208	36.2909	287.3733	21425	22007
CLCC	37.6105N	118.9158W	2550	37.3663	284.0449	12639	12991
CCHS	37.6550N	118.9045W	2420	37.6823	291.7900	20757	21234
CCSW	37.6442N	118.9282W	2280	39.7452	288.7771	22008	22587
CBNY	37.6408N	118.9358W	2325	40.4299	287.8865	22588	22850
CEMH	37.6663N	118.9392W	2495	41.7340	291.4153	12272	12638
CSHLN	37.6167N	118.9550W	2530	41.7679	283.5039	21235	21424
CSHL	37.6167N	118.9550W	2530	41.7679	283.5039	15339	15880
CTAC	37.6317N	118.9650W	2398	43.2580	285.2959	16555	16817
CSKI	37.6530N	119.0238W	2660	50.1969	285.9180	20479	20756
CMMCR	38.3608N	119.1283W	2548	109.8568	326.9487	13572	13990
CMNP	37.4150N	119.7283W	1000	127.3387	264.3406	7866	8380
CFRI	36.9917N	119.7083W	119	138.0122	244.4785	10403	11076
CMAT	37.8733N	119.8667W	1353	147.1282	285.0181	5458	5843
CMHD	37.1235N	119.8923W	180	151.7926	252.8181	2341	2834
CWKT	35.7940N	118.4425W	890	193.9357	175.1245	17270	17943
CMYL	37.3780N	120.4197W	84	204.3835	265.3271	2835	3508

CMST	37.9045N	120.4048W	366	206.2390	281.6232	9729	10402
CMCH	38.0187N	120.5095W	475	220.4337	284.2349	5844	6517
CWOF	35.5357N	118.7125W	1341	222.6647	183.5156	17944	18617
CMOY	37.9000N	120.5673W	176	223.8960	280.5710	8381	9054
CMRF	38.2453N	120.5207W	799	229.0900	290.2476	9055	9728
CMCU	37.9727N	120.6170W	336	230.9142	282.2805	6518	7191
CMNH	38.1458N	120.8137W	219	256.7820	285.4177	7192	7865
CARJ	38.6865N	120.9563W	460	293.0857	295.9482	3509	4182
CHQRV	36.8337N	121.2127W	536	302.1650	255.2336	1667	2340
CWWVB	0.0000	0.0000	0	13838.8437	107.4495	319	992
CIRGI	0.0000	0.0000	0	13838.8437	107.4495	993	1666

C*

C* ORIGINAL WAVEFORM CARDS

C6788	84	06	5	1118	WFC USGSWVB		11	17	43.55	100	107	16	
C6788	84	06	5	1118	WFC USGSIRGI		11	17	43.55	100	107	16	
C6788	84	06	5	1118	WFC USGSHQRV	36.8337N 121.2127W	536	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMHD	37.1235N 119.8923W	180	11	18	11.79	100	78	16
C6788	84	06	5	1118	WFC USGSMYL	37.3780N 120.4197W	84	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSARJ	38.6865N 120.9563W	460	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSWMDR	37.4435N 118.6370W	1683	11	17	55.13	100	95	16
C6788	84	06	5	1118	WFC USGSCCLK	37.5902N 118.8242W	2630	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMAT	37.8733N 119.8667W	1353	11	18	11.05	100	61	16
C6788	84	06	5	1118	WFC USGSMCH	38.0187N 120.5095W	475	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMCU	37.9727N 120.6170W	336	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMNH	38.1458N 120.8137W	219	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMNP	37.4150N 119.7283W	1000	11	18	8.89	100	82	16
C6788	84	06	5	1118	WFC USGSMOY	37.9000N 120.5673W	176	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMRF	38.2453N 120.5207W	799	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSMST	37.9045N 120.4048W	366	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSFRI	36.9917N 119.7083W	119	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSCASR	37.5748N 118.5515W	2107	11	17	54.69	100	96	16
C6788	84	06	5	1118	WFC USGSCCLKR	37.5902N 118.8242W	2630	11	17	56.79	100	94	16
C6788	84	06	5	1118	WFC USGSEMH	37.6663N 118.9392W	2495	11	17	58.83	100	58	16
C6788	84	06	5	1118	WFC USGSLCC	37.6105N 118.9158W	2550	11	17	58.13	100	56	16
C6788	84	06	5	1118	WFC USGSMGNR	37.8133N 118.6955W	2472	11	17	58.59	100	92	16
C6788	84	06	5	1118	WFC USGSMOCR	38.3608N 119.1283W	2548	11	18	9.17	100	66	16
C6788	84	06	5	1118	WFC USGSORCR	37.6353N 118.6560W	2301	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSSCHR	37.3658N 118.6870W	2365	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSSHL	37.6167N 118.9550W	2530	11	17	58.71	100	86	16
C6788	84	06	5	1118	WFC USGSRSM	37.5107N 118.8822W	3680	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSTAC	37.6317N 118.9650W	2398	11	17	58.93	100	41	16
C6788	84	06	5	1118	WFC USGSDOE	37.6387N 118.8355W	2220	11	17	57.29	100	71	16
C6788	84	06	5	1118	WFC USGSWKT	35.7940N 118.4425W	890	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSWOF	35.5357N 118.7125W	1341	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSRCCR	37.4877N 118.7217W	2804	11	17	55.39	100	95	16
C6788	84	06	5	1118	WFC USGSCVM	37.6098N 118.8733W	2260	11	17	43.55	100	107	16
C6788	84	06	5	1118	WFC USGSCSR	37.6777N 118.8183W	2122	11	17	57.47	100	93	16
C6788	84	06	5	1118	WFC USGSSKI	37.6530N 119.0238W	2660	11	17	59.87	100	44	16
C6788	84	06	5	1118	WFC USGSCHS	37.6550N 118.9045W	2420	11	17	58.29	100	76	16
C6788	84	06	5	1118	WFC USGSSHLN	37.6167N 118.9550W	2530	11	17	58.71	100	30	16
C6788	84	06	5	1118	WFC USGSGRP	37.6265N 118.9013W	2208	11	17	58.03	100	92	16
C6788	84	06	5	1118	WFC USGSCSW	37.6442N 118.9282W	2280	11	17	58.51	100	92	16
C6788	84	06	5	1118	WFC USGSBNY	37.6408N 118.9358W	2325	11	17	58.59	100	41	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*		LINES	
C*	ITEM	START	END
C*			
C*	PHC	639	664
C*	STA	665	684
C*	SAT	685	737
C*	SPC	738	1567
C*	CQ1	1568	1573
C*	CQ2	1574	1609
C*	CQ3	1610	1693
C*	WFC	1694	1712

C*
C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*		LINES	
C*	STATION	START	END
C*			
C*	CASR	1713	2089
C*	WMDR	2090	2466
C*	ORCR	2467	2843
C*	RCCR	2844	3220
C*	SCHR	3221	3597
C*	CLKR	3598	3974
C*	DOE	3975	4351
C*	CSR	4352	4728
C*	RSM	4729	5105
C*	MGNR	5106	5482
C*	GRP	5483	5859
C*	LCC	5860	6236
C*	CHS	6237	6613
C*	CSW	6614	6990
C*	BNY	6991	7367
C*	EMH	7368	7744
C*	SHL	7745	8121
C*	TAC	8122	8498
C*	SKI	8499	8875

C*END-----

6788	84	06	5	1118	SUC	2.20	37.5285N	118.5902W	11.31A	2.1D	20	170	6	.09
6788	84	06	5	1118	PHC	USGSMHD	PD4	22.87						
6788	84	06	5	1118	PHC	USGSWMDR	IPU0	5.05						
6788	84	06	5	1118	PHC	USGSCLK	IPU0	6.80						
6788	84	06	5	1118	PHC	USGSMAT	EP4	22.03						
6788	84	06	5	1118	PHC	USGSMNP	IPU0	19.25						
6788	84	06	5	1118	PHC	USGSCASR	IPD0	4.76						
6788	84	06	5	1118	PHC	USGSCLKR	IPU1	6.80						
6788	84	06	5	1118	PHC	USGSEMH	IPU0	8.86						
6788	84	06	5	1118	PHC	USGSLCC	IPU0	8.04						

***** 8227 data cards not shown here *****

C#FINIS DSN=SL000096

Table SL000097

C#DSN=SL000097;SIZE=009374;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=066;STRT=000001;
 C*DATE: 19850430; 0; 840605B ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840605; 19840605; 37.511N; 37.511N; 118.670W; 118.670W; ; 6819;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840605 AT 22:58
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CRCCR	37.4877N	118.7217W	2804	6.2777	246.1994	10309	10659
CWMDR	37.4435N	118.6370W	1683	8.2887	153.5906	1998	2345
CORCR	37.6353N	118.6560W	2301	13.8786	6.4937	7035	7455
CCASR	37.5748N	118.5515W	2107	14.9922	61.7349	4708	5050
CSCHR	37.3658N	118.6870W	2365	16.1318	186.6954	7456	7876
CCLK	37.5902N	118.8242W	2630	19.2821	297.1609	2346	2766
CCLKR	37.5902N	118.8242W	2630	19.2821	297.1609	5051	5389
CDOE	37.6387N	118.8355W	2220	23.2312	307.5730	8625	9045
CCSR	37.6777N	118.8183W	2122	24.7711	318.2402	11081	11501
CGRP	37.6265N	118.9013W	2208	28.7534	296.4695	12251	12581
CLCC	37.6105N	118.9158W	2550	29.5000	291.9934	5715	6044
CLCCR	37.6105N	118.9158W	2550	29.5000	291.9934	9888	10308
CCHS	37.6550N	118.9045W	2420	30.5918	301.4636	11923	12250
CCSW	37.6442N	118.9282W	2280	32.3091	297.2092	12582	12908
CBNY	37.6408N	118.9358W	2325	32.8974	295.9526	12909	13098
CMGNR	37.8133N	118.6955W	2472	33.5874	355.1724	6365	6785
CSHL	37.6167N	118.9550W	2530	33.8178	290.3003	7877	8203
CSHLR	37.6167N	118.9550W	2530	33.8178	290.3003	9467	9887
CEMH	37.6663N	118.9392W	2495	34.5522	299.8882	5390	5714
CMLK	37.6643N	118.9750W	2670	37.9612	296.5986	8204	8624
CLMC	37.7288N	118.9465W	2540	39.1014	308.1011	6045	6364
CSKI	37.6530N	119.0238W	2660	42.4081	291.7964	11502	11922
CDMP	37.7080N	119.0458W	2550	47.1776	297.5581	10660	11080
CMMC	38.3608N	119.1283W	2548	107.0012	331.5244	6786	7034
CMNP	37.4150N	119.7283W	1000	118.2962	264.8699	3188	3444
CFRI	36.9917N	119.7083W	119	129.1458	243.5697	4287	4707
CMAT	37.8733N	119.8667W	1353	139.1130	286.7549	2767	3187
CMHD	37.1235N	119.8923W	180	142.7101	252.5220	1156	1576
CWKT	35.7940N	118.4425W	890	192.9347	172.4343	9046	9466

CMYL	37.3780N	120.4197W	84	195.3610	265.6931	1577	1997
CMOY	37.9000N	120.5673W	176	215.5439	281.5220	3445	3865
CMRF	38.2453N	120.5207W	799	221.4801	291.5242	3866	4286
CWWVB	0.0000	0.0000	0	13846.8242	107.4307	314	734
CIRG1	0.0000	0.0000	0	13846.8242	107.4307	735	1155

C*

C* ORIGINAL WAVEFORM CARDS

C6819	84	06	5	2258	WFC	USGSWWVB				22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSIRG1				22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMHD	37.1235N	119.8923W	180	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMYL	37.3780N	120.4197W	84	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSWMDR	37.4435N	118.6370W	1683	22	58	30.06	100	55	16
C6819	84	06	5	2258	WFC	USGSCCLK	37.5902N	118.8242W	2630	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMAT	37.8733N	119.8667W	1353	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMNP	37.4150N	119.7283W	1000	22	58	44.58	100	40	16
C6819	84	06	5	2258	WFC	USGSMOY	37.9000N	120.5673W	176	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMRF	38.2453N	120.5207W	799	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSFRI	36.9917N	119.7083W	119	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSCASR	37.5748N	118.5515W	2107	22	58	30.86	100	54	16
C6819	84	06	5	2258	WFC	USGSCCLKR	37.5902N	118.8242W	2630	22	58	31.46	100	53	16
C6819	84	06	5	2258	WFC	USGSEMH	37.6663N	118.9392W	2495	22	58	33.70	100	51	16
C6819	84	06	5	2258	WFC	USGSLCC	37.6105N	118.9158W	2550	22	58	32.82	100	52	16
C6819	84	06	5	2258	WFC	USGSLMC	37.7288N	118.9465W	2540	22	58	34.54	100	50	16
C6819	84	06	5	2258	WFC	USGSMGMR	37.8133N	118.6955W	2472	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSMCCR	38.3608N	119.1283W	2548	22	58	45.78	100	39	16
C6819	84	06	5	2258	WFC	USGSORCR	37.6353N	118.6560W	2301	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSSCHR	37.3658N	118.6870W	2365	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSSHL	37.6167N	118.9550W	2530	22	58	33.42	100	51	16
C6819	84	06	5	2258	WFC	USGSMLK	37.6643N	118.9750W	2670	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSDOE	37.6387N	118.8355W	2220	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSWKT	35.7940N	118.4425W	890	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSSHLR	37.6167N	118.9550W	2530	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSLCCR	37.6105N	118.9158W	2550	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSRCCR	37.4877N	118.7217W	2804	22	58	29.58	100	55	16
C6819	84	06	5	2258	WFC	USGSDMP	37.7080N	119.0458W	2550	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSCSR	37.6777N	118.8183W	2122	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSSKI	37.6530N	119.0238W	2660	22	58	18.34	100	66	16
C6819	84	06	5	2258	WFC	USGSCHS	37.6550N	118.9045W	2420	22	58	33.14	100	52	16
C6819	84	06	5	2258	WFC	USGSGRP	37.6265N	118.9013W	2208	22	58	32.78	100	52	16
C6819	84	06	5	2258	WFC	USGSCSW	37.6442N	118.9282W	2280	22	58	33.30	100	51	16
C6819	84	06	5	2258	WFC	USGSBNY	37.6408N	118.9358W	2325	22	58	33.38	100	30	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	626	652
C*	STA	653	671
C*	SAT	672	713
C*	SPC	714	1303
C*	CQ1	1304	1321
C*	CQ2	1322	1375
C*	CQ3	1376	1435
C*	WFC	1436	1453

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C* LINES

C*	STATION	START	END
C*	RCCR	1454	1893
C*	WMDR	1894	2333
C*	ORCR	2334	2773
C*	CASR	2774	3213
C*	SCHR	3214	3653
C*	CLKR	3654	4093
C*	DOE	4094	4533
C*	CSR	4534	4973
C*	GRP	4974	5413
C*	LCC	5414	5853
C*	CHS	5854	6293
C*	CSW	6294	6733
C*	BNY	6734	7173
C*	MGNR	7174	7613
C*	SHL	7614	8053
C*	EMH	8054	8493
C*	MLK	8494	8933
C*	LMC	8934	9373

C*END-----

6819	84	06	5	2258	SUC	38.05	37.5106N	118.6701W	3.52A	1.9D	17	102	5	.10
6819	84	06	5	2258	PHC	USGSMHD	EP4	57.79						
6819	84	06	5	2258	PHC	USGSWMDR	IPU1	39.96						
6819	84	06	5	2258	PHC	USGSCLK	IPD1	41.35						
6819	84	06	5	2258	PHC	USGSMAT	P4	57.40						
6819	84	06	5	2258	PHC	USGSMNP	P4	54.32						
6819	84	06	5	2258	PHC	USGSFRI	P4	56.71						
6819	84	06	5	2258	PHC	USGSCASR	IPD1	40.88						
6819	84	06	5	2258	PHC	USGSCLKR	IPD0	41.34						
6819	84	06	5	2258	PHC	USGSEMH	EPD3	43.73						

***** 8738 data cards not shown here *****

C#FINIS DSN=SL000097

Table SL000098

C#DSN=SL000098;SIZE=006420;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=067;STRT=000001;
 C*DATE: 19850430; 0; 840608A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840608; 19840608; 37.436N; 37.436N; 118.693W; 118.693W; ; 6955;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840608 AT 14:51
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CWMDR	37.4435N	118.6370W	1683	6.3487	82.2976	1198	1578
CRCCR	37.4877N	118.7217W	2804	6.5436	331.3271	11481	11860
CSCHR	37.3658N	118.6870W	2365	7.7811	174.6624	8088	8464
CCASR	37.5748N	118.5515W	2107	22.0522	45.8000	4087	4450
CCLK	37.5902N	118.8242W	2630	22.4359	319.5627	1579	2022
CCLKR	37.5902N	118.8242W	2630	22.4359	319.5627	4895	5257
CORCR	37.6353N	118.6560W	2301	22.4549	10.7124	7644	8087
CRSM	37.5107N	118.8822W	3680	22.5850	291.5198	8817	9260
CDOE	37.6387N	118.8355W	2220	27.4493	324.8350	9705	10148
CCVM	37.6098N	118.8733W	2260	27.7687	313.8701	11861	12304
CLLK	37.5788N	118.9050W	3030	28.3662	303.8875	4451	4894
CCSR	37.6777N	118.8183W	2122	30.1446	332.5537	12305	12658
CGRP	37.6265N	118.9013W	2208	31.3060	312.3516	14343	14697
CLCCR	37.6105N	118.9158W	2550	31.3991	307.9788	10593	11036
CLCC	37.6105N	118.9158W	2550	31.3991	307.9788	5957	6311
CMDW	37.6313N	118.9162W	2350	32.8972	311.0901	13455	13898
CBENR	37.7155N	118.5733W	2463	33.7003	23.3940	5258	5607
CCHS	37.6550N	118.9045W	2420	33.7559	315.9011	13103	13454
CCSW	37.6442N	118.9282W	2280	34.8422	311.4121	14698	15049
CBNY	37.6408N	118.9358W	2325	35.2379	310.0432	15050	15326
CSHLR	37.6167N	118.9550W	2530	35.3258	304.4966	10149	10592
CSHL	37.6167N	118.9550W	2530	35.3258	304.4966	8465	8816
CEMH	37.6663N	118.9392W	2495	37.3903	312.9819	5608	5956
CMLK	37.6643N	118.9750W	2670	40.2595	308.8747	9261	9704
CMGHR	37.8133N	118.6955W	2472	41.7411	359.6943	6756	7199
CMMP	37.6100N	119.0280W	2870	41.9299	297.3542	13899	14342
CLMC	37.7288N	118.9465W	2540	42.9321	318.9993	6312	6755
CSKI	37.6530N	119.0238W	2660	43.9234	303.1526	12659	13102
CLULR	38.0523N	119.1803W	2243	87.0833	321.5156	11037	11480

CMMCR	38.3608N	119.1283W	2548	113.1893	334.6792	7200	7643
CMNP	37.4150N	119.7283W	1000	115.2480	268.8547	2911	3198
CMAT	37.8733N	119.8667W	1353	139.2749	290.3242	2023	2466
CMST	37.9045N	120.4048W	366	197.4289	285.2175	3643	4086
CMCH	38.0187N	120.5095W	475	212.1874	287.6826	2467	2910
CMOY	37.9000N	120.5673W	176	214.8182	283.8230	3199	3642
CIRG1	0.0000	0.0000	0	13847.3008	107.3958	754	1197
CWWVB	0.0000	0.0000	0	13847.3008	107.3958	310	753

C*

C* ORIGINAL WAVEFORM CARDS

C6955	84 06 8 1451	WFC USGSWWVB		14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSIRG1		14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSWMDR	37.4435N 118.6370W 1683	14 51	14.49	100	60 16
C6955	84 06 8 1451	WFC USGSCCLK	37.5902N 118.8242W 2630	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMAT	37.8733N 119.8667W 1353	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMCH	38.0187N 120.5095W 475	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMNP	37.4150N 119.7283W 1000	14 51	29.45	100	45 16
C6955	84 06 8 1451	WFC USGSMOY	37.9000N 120.5673W 176	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMST	37.9045N 120.4048W 366	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSCASR	37.5748N 118.5515W 2107	14 51	17.33	100	57 16
C6955	84 06 8 1451	WFC USGSLLK	37.5788N 118.9050W 3030	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSCCLKR	37.5902N 118.8242W 2630	14 51	17.45	100	57 16
C6955	84 06 8 1451	WFC USGSBENR	37.7155N 118.5733W 2463	14 51	19.53	100	55 16
C6955	84 06 8 1451	WFC USGSEMH	37.6663N 118.9392W 2495	14 51	19.65	100	55 16
C6955	84 06 8 1451	WFC USGSLCC	37.6105N 118.9158W 2550	14 51	18.65	100	56 16
C6955	84 06 8 1451	WFC USGSLMC	37.7288N 118.9465W 2540	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMGMR	37.8133N 118.6955W 2472	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMCCR	38.3608N 119.1283W 2548	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSORCR	37.6353N 118.6560W 2301	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSSCHR	37.3658N 118.6870W 2365	14 51	15.13	100	59 16
C6955	84 06 8 1451	WFC USGSSHL	37.6167N 118.9550W 2530	14 51	19.13	100	55 16
C6955	84 06 8 1451	WFC USGSRSM	37.5107N 118.8822W 3680	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMKLK	37.6643N 118.9750W 2670	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSDOE	37.6387N 118.8355W 2220	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSSHLR	37.6167N 118.9550W 2530	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSLCCR	37.6105N 118.9158W 2550	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSLULR	38.0523N 119.1803W 2243	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSRCCR	37.4877N 118.7217W 2804	14 51	14.73	100	60 16
C6955	84 06 8 1451	WFC USGSCVM	37.6098N 118.8733W 2260	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSCSR	37.6777N 118.8183W 2122	14 51	18.85	100	56 16
C6955	84 06 8 1451	WFC USGSSKI	37.6530N 119.0238W 2660	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSCHS	37.6550N 118.9045W 2420	14 51	19.13	100	55 16
C6955	84 06 8 1451	WFC USGSMDW	37.6313N 118.9162W 2350	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSMMP	37.6100N 119.0280W 2870	14 51	4.49	100	70 16
C6955	84 06 8 1451	WFC USGSGRP	37.6265N 118.9013W 2208	14 51	18.69	100	56 16
C6955	84 06 8 1451	WFC USGSCSW	37.6442N 118.9282W 2280	14 51	19.21	100	55 16
C6955	84 06 8 1451	WFC USGSBNY	37.6408N 118.9358W 2325	14 51	19.25	100	43 16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	630	649
C*	STA	650	666
C*	SAT	667	705

C*	SPC	706	1225
C*	CQ1	1226	1243
C*	CQ2	1244	1279
C*	CQ3	1280	1363
C*	WFC	1364	1379

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

C*		LINES	
C*	STATION	START	END
C*			
C*	WMDR	1380	1694
C*	RCCR	1695	2009
C*	SCHR	2010	2324
C*	CASR	2325	2639
C*	CLKR	2640	2954
C*	ORCR	2955	3269
C*	DOE	3270	3584
C*	CSR	3585	3899
C*	GRP	3900	4214
C*	LCC	4215	4529
C*	BENR	4530	4844
C*	CHS	4845	5159
C*	CSW	5160	5474
C*	BNY	5475	5789
C*	SHL	5790	6104
C*	EMH	6105	6419

C*END-----

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6955 84 06 8 1451 SUC 23.09 37.4358N 118.6935W 2.32A 2.0D 15 95 5 .10
6955 84 06 8 1451 PHC USGSWMDR IPD0 24.43
6955 84 06 8 1451 PHC USGSMNP IPU1 39.07
6955 84 06 8 1451 PHC USGSCASR EPD2 27.35
6955 84 06 8 1451 PHC USGSCCLKR EPU3 27.30
6955 84 06 8 1451 PHC USGSBENR EP4 29.40
6955 84 06 8 1451 PHC USGSEMH EPU2 29.73
6955 84 06 8 1451 PHC USGSLCC EPU2 28.52
6955 84 06 8 1451 PHC USGSORCR EPD2 27.75
6955 84 06 8 1451 PHC USGSSCHR IPU0 25.18

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***** 5780 data cards not shown here *****

C*FINIS DSN=SL000098

Table SL000099

C#DSN=SL000099;SIZE=005117;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=067;STRT=006421;
 C*DATE: 19850430; 0; 840610A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSN: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840610; 19840610; 37.629N; 37.629N; 118.940W; 118.940W; ; 7045;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840610 AT 06:34
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CBNY	37.6408N	118.9358W	2325	1.3647	20.0164	17258	17643
CCSW	37.6442N	118.9282W	2280	2.1154	38.3687	16774	17257
CSHLR	37.6167N	118.9550W	2530	2.1674	230.3903	13503	14107
CSHLN	37.6167N	118.9550W	2530	2.1674	230.3903	16075	16404
CSHL	37.6167N	118.9550W	2530	2.1674	230.3903	11252	11618
CTAC	37.6317N	118.9650W	2398	2.7961	275.6792	12224	12546
CLCC	37.6105N	118.9158W	2550	3.3956	127.4949	9379	9732
CLCCR	37.6105N	118.9158W	2550	3.3956	127.4949	14108	14712
CEMH	37.6663N	118.9392W	2495	4.1042	1.2568	9060	9378
CGRP	37.6265N	118.9013W	2208	4.3182	93.9656	16405	16773
CCHS	37.6550N	118.9045W	2420	4.8749	54.1787	15731	16074
CSKI	37.6530N	119.0238W	2660	9.6932	285.7554	15477	15730
CDOE	37.6387N	118.8355W	2220	11.6815	84.8372	12547	12897
CCLK	37.5902N	118.8242W	2630	13.5936	108.4971	3188	3792
CCLKR	37.5902N	118.8242W	2630	13.5936	108.4971	8235	8711
CCSR	37.6777N	118.8183W	2122	14.5715	68.4023	15097	15476
CRSM	37.5107N	118.8822W	3680	14.5992	153.8472	11619	12223
CRCCR	37.4877N	118.7217W	2804	28.9058	122.7751	14713	15096
CORCR	37.6353N	118.6560W	2301	31.6227	88.7769	10338	10800
CWMDR	37.4435N	118.6370W	1683	39.4946	121.3335	2734	3187
CSCHR	37.3658N	118.6870W	2365	40.5259	135.9658	10801	11251
CBENR	37.7155N	118.5733W	2463	41.9222	76.8425	8712	9059
CCASR	37.5748N	118.5515W	2107	43.6667	97.9177	7630	8234
CMMCR	38.3608N	119.1283W	2548	83.6324	345.4805	9733	10337
CMNP	37.4150N	119.7283W	1000	90.9057	254.8933	4798	5209
CMAT	37.8733N	119.8667W	1353	106.6351	284.6621	3793	4192
CFRI	36.9917N	119.7083W	119	110.9283	230.4794	7025	7629
CMHD	37.1235N	119.8923W	180	119.9120	242.1755	1524	2128
CMST	37.9045N	120.4048W	366	165.8836	280.5740	6420	7024

CMYL	37.3780N	120.4197W	84	167.0695	260.4268	2129	2733
CMCH	38.0187N	120.5095W	475	179.9604	283.8484	4193	4797
CMOY	37.9000N	120.5673W	176	183.6152	279.3853	5210	5814
CMRF	38.2453N	120.5207W	799	188.7375	291.1699	5815	6419
CWKT	35.7940N	118.4425W	890	211.7634	164.8022	12898	13502
CIRG1	0.0000	0.0000	0	13879.0000	107.4443	919	1523
CWWVB	0.0000	0.0000	0	13879.0000	107.4443	314	918

C*

C* ORIGINAL WAVEFORM CARDS

C7045	84	0610	634	WFC	USGSWWVB		6	34	4.55	100	96	16	
C7045	84	0610	634	WFC	USGSIRG1		6	34	4.55	100	96	16	
C7045	84	0610	634	WFC	USGSMHD	37.1235N 119.8923W	180	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSMYL	37.3780N 120.4197W	84	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSWMDR	37.4435N 118.6370W	1633	6	34	28.71	100	72	16
C7045	84	0610	634	WFC	USGSCLK	37.5902N 118.8242W	2630	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSMAT	37.8733N 119.8667W	1353	6	34	37.35	100	63	16
C7045	84	0610	634	WFC	USGSMCH	38.0187N 120.5095W	475	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSMNP	37.4150N 119.7283W	1000	6	34	35.43	100	65	16
C7045	84	0610	634	WFC	USGSMOY	37.9000N 120.5673W	176	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSMRF	38.2453N 120.5207W	799	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSMST	37.9045N 120.4048W	366	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSFRI	36.9917N 119.7083W	119	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSCASR	37.5748N 118.5515W	2107	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSCLKR	37.5902N 118.8242W	2630	6	34	24.95	100	75	16
C7045	84	0610	634	WFC	USGSBENR	37.7155N 118.5733W	2463	6	34	28.71	100	55	16
C7045	84	0610	634	WFC	USGSEMH	37.6663N 118.9392W	2495	6	34	23.99	100	50	16
C7045	84	0610	634	WFC	USGSLCC	37.6105N 118.9158W	2550	6	34	23.91	100	56	16
C7045	84	0610	634	WFC	USGSMCCR	38.3608N 119.1283W	2548	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSORCR	37.6353N 118.6560W	2301	6	34	27.27	100	73	16
C7045	84	0610	634	WFC	USGSSCHR	37.3658N 118.6870W	2365	6	34	29.19	100	71	16
C7045	84	0610	634	WFC	USGSSHL	37.6167N 118.9550W	2530	6	34	23.83	100	58	16
C7045	84	0610	634	WFC	USGSRSM	37.5107N 118.8822W	3680	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSTAC	37.6317N 118.9650W	2398	6	34	23.83	100	51	16
C7045	84	0610	634	WFC	USGSDOE	37.6387N 118.8355W	2220	6	34	24.63	100	55	16
C7045	84	0610	634	WFC	USGSWKT	35.7940N 118.4425W	890	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSSHLR	37.6167N 118.9550W	2530	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSLCCR	37.6105N 118.9158W	2550	6	34	4.55	100	96	16
C7045	84	0610	634	WFC	USGSRCCR	37.4877N 118.7217W	2804	6	34	27.27	100	61	16
C7045	84	0610	634	WFC	USGSCSR	37.6777N 118.8183W	2122	6	34	25.11	100	60	16
C7045	84	0610	634	WFC	USGSSKI	37.6530N 119.0238W	2660	6	34	24.47	100	40	16
C7045	84	0610	634	WFC	USGSCHS	37.6550N 118.9045W	2420	6	34	23.99	100	54	16
C7045	84	0610	634	WFC	USGSSHLN	37.6167N 118.9550W	2530	6	34	23.83	100	52	16
C7045	84	0610	634	WFC	USGSGRP	37.6265N 118.9013W	2208	6	34	23.91	100	58	16
C7045	84	0610	634	WFC	USGSCSW	37.6442N 118.9282W	2280	6	34	23.83	100	77	16
C7045	84	0610	634	WFC	USGSBNY	37.6408N 118.9358W	2325	6	34	23.75	100	61	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

C*	ITEM	START	END
C*	PHC	628	652
C*	STA	653	669
C*	SAT	670	711
C*	SPC	712	1276
C*	CQ1	1277	1330

C* CQ2 1331 1396
 C* CQ3 1397 1468
 C* WFC 1469 1484
 C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*
 C* LINES
 C* STATION START END
 C*
 C* BNY 1485 1736
 C* CSW 1737 1988
 C* SHL 1989 2240
 C* TAC 2241 2492
 C* LCC 2493 2744
 C* EMH 2745 2996
 C* GRP 2997 3248
 C* CHS 3249 3500
 C* SKI 3501 3752
 C* DOE 3753 4004
 C* CLKR 4005 4256
 C* CSR 4257 4508
 C* RSM 4509 4760
 C* RCCR 4761 5012
 C* ORCR 5013 5264
 C* WMDR 5265 5516

C*END-----
 7045 84 0610 634 SUC 32.31 37.6292N 118.9400W 6.81A 1.8D 21 81 1 .08
 7045 84 0610 634 PHC USGSMHD EPU3 49.69
 7045 84 0610 634 PHC USGSWMDR IPU1 38.59
 7045 84 0610 634 PHC USGSCLK IPD0 34.95
 7045 84 0610 634 PHC USGSMAT EP4 46.74
 7045 84 0610 634 PHC USGSMNP EP4 45.06
 7045 84 0610 634 PHC USGSCASR EPU2 38.95
 7045 84 0610 634 PHC USGSCLKR IPD0 34.96
 7045 84 0610 634 PHC USGSBENR EPD2 38.64
 7045 84 0610 634 PHC USGSEMH IPU0 33.89

***** 4879 data cards not shown here *****

C#FINIS DSN=SL000099

Table SL000100

C#DSN=SL000100;SIZE=014783;DATE=050285;ARCH=JN;TAPE=SM9302;FILE=068;STRT=000001;
 C*DATE: 19850430; 0; 840616A ;
 C*CLASS: EARTHQUAKE; SUMMARY; PHASE; WAVEFORM;
 C*PERSON: W.H.K. LEE; J.T. NEWBERRY; S. STEWART;
 C*ALPHA: 19840616; 19840616; 37.594N; 37.594N; 118.825W; 118.825W; ; 7313;
 C*KEYWD: CUSP; CODA Q; SPECTRA;
 C*TITLE: EDITED DATA ,SPECTRAL ESTIMATES, AND CODA Q RESULTS
 C* FOR EARTHQUAKE ON 840616 AT 07:30
 C*INSTITUTION: U. S. GEOLOGICAL SURVEY, MENLO PARK, CA, 94025
 C*ICODE: GSMP;
 C*ABSTRACT: THIS DATA SET IS A RESULT OF EDITING OF AN EARTHQUAKE DATA
 C* FILE CONVERTED TO STANDARDIZED FORMAT FROM THE ORIGINAL CUSP
 C* MEM AND BINARY ARCHIVE TAPES. INCLUDED IN THE DATA SET ARE
 C* DIGITAL STATION TRACES, SUMMARY AND PHASE INFORMATION, AND
 C* SPECTRAL ESTIMATES AND CODA Q DETERMINATIONS. USEFUL TRACES
 C* HAVE BEEN SELECTED AND CHOPPED TO UNIFORM LENGTH.
 C*REFERENCE:
 C*FORMAT:

 See previous format from dataset SL000080 for details

C* ORIGINAL STATION CARDS

CCLK	37.5902N	118.8242W	2630	0.3860	161.5288	79039	79896
CCLKR	37.5902N	118.8242W	2630	0.3860	161.5288	112860	113609
CDOE	37.6387N	118.8355W	2220	5.1249	347.2078	120470	121218
CCVM	37.6098N	118.8733W	2260	5.6397	288.6340	130427	131175
CGRP	37.6265N	118.9013W	2208	9.2140	293.3225	134036	134782
CCSR	37.6777N	118.8183W	2122	9.3426	4.7871	131176	132033
CLCC	37.6105N	118.9158W	2550	10.2488	280.5679	115081	115938
CLCCR	37.6105N	118.9158W	2550	10.2488	280.5679	124651	125396
CCHS	37.6550N	118.9045W	2420	11.1336	307.6416	132770	133514
CRSM	37.5107N	118.8822W	3680	11.1355	214.6717	119137	119994
CSHLR	37.6167N	118.9550W	2530	14.6649	280.0720	123793	124650
CSHL	37.6167N	118.9550W	2530	14.6649	280.0720	118394	119136
CSHLN	37.6167N	118.9550W	2530	14.6649	280.0720	133515	134035
CEMH	37.6663N	118.9392W	2495	15.0184	302.4111	114339	115080
CTAC	37.6317N	118.9650W	2398	16.1147	285.1931	119995	120469
CRCCR	37.4877N	118.7217W	2804	16.4310	135.4114	125397	126136
CORCR	37.6353N	118.6560W	2301	19.4052	76.2222	116797	117535
CSKI	37.6530N	119.0238W	2660	23.0564	286.5781	132034	132769
CWMDR	37.4435N	118.6370W	1683	26.7362	128.3577	78307	79038
CSCHR	37.3658N	118.6870W	2365	29.5233	148.5613	117536	118393
CCASR	37.5748N	118.5515W	2107	30.5518	93.8826	112129	112859
CBENR	37.7155N	118.5733W	2463	31.1277	64.3198	113610	114338
CMMCR	38.3608N	119.1283W	2548	91.3605	338.3281	115939	116796
CMNPN	37.4150N	119.7283W	1000	102.4570	258.8884	107167	107838
CMNP	37.4150N	119.7283W	1000	102.4570	258.8884	106495	107166
CFRI	36.9917N	119.7083W	119	118.8034	235.8763	111271	112128
CMAT	37.8733N	119.8667W	1353	119.9878	284.9417	103063	103920
CMHD	37.1235N	119.8923W	180	129.7159	246.3544	52776	53424
CMYL	37.3780N	120.4197W	84	179.1110	262.3516	53425	54282

CMST	37.9045N	120.4048W	366	179.1650	281.0652	109555	110412
CMCH	38.0187N	120.5095W	475	193.3018	284.0779	103921	104778
CMOY	37.9000N	120.5673W	176	196.8635	279.9124	107839	108696
CPWM	36.4328N	120.2110W	72	201.1611	230.1642	126995	127852
CMRF	38.2453N	120.5207W	799	202.0679	290.9053	108697	109554
CMCU	37.9727N	120.6170W	336	203.8201	281.8716	104779	105636
CPHB	36.2488N	120.0827W	100	204.9096	223.1770	127853	128710
CWKT	35.7940N	118.4425W	890	204.9183	167.9678	122077	122934
CWCH	35.8830N	118.0747W	2475	208.0282	156.2603	121219	122076
CPDR	36.3357N	120.3687W	488	221.6509	230.9263	128711	129568
CPKE	36.0615N	120.1090W	288	222.5764	220.0396	129569	130426
CPAR	36.2492N	120.3420W	485	225.6501	228.5465	22746	23603
CMNH	38.1458N	120.8137W	219	229.6473	285.4258	105637	106494
CWOF	35.5357N	118.7125W	1341	229.7836	176.8582	122935	123792
CBRM	36.8450N	120.8237W	372	237.5741	249.5668	62005	62862
CAOD	38.6148N	120.7285W	520	240.2647	298.0823	57715	58572
CBMS	36.6630N	120.7918W	811	242.2115	244.7837	36474	37331
CSRT	35.6918N	117.7493W	698	243.5613	150.4578	110413	111270
CADW	38.4392N	120.8482W	251	243.9390	292.5627	55141	55998
CPCR	36.0938N	120.4347W	296	245.0300	227.1040	21888	22745
CPCA	35.9317N	120.3370W	1189	250.3101	222.3603	19314	20171
CPSR	35.8578N	120.2802W	552	252.3895	220.0311	14166	15023
CPMR	35.7848N	120.2357W	512	255.6442	218.0002	12450	13307
CHSL	37.0193N	121.0855W	520	259.6396	255.8246	97915	98772
CPGH	35.8310N	120.3528W	433	259.9443	220.9728	15024	15881
CPSM	36.0697N	120.5947W	988	260.1470	229.3456	23604	24461
CPPF	35.8818N	120.4135W	469	260.2200	222.9204	18456	19313
CPHR	36.3730N	120.8183W	732	260.2671	238.6155	27036	27893
CALA	38.5667N	120.9562W	293	260.6443	294.4197	56857	57714
CPAG	35.7320N	120.2493W	482	261.2715	217.4637	11592	12449
CPHA	35.8360N	120.3985W	455	262.8965	221.8921	15882	16739
CPST	35.9288N	120.5083W	573	263.7944	225.3814	20172	21029
CPTR	35.6547N	120.2112W	643	265.7297	215.5997	10734	11591
CPHGV	35.8760N	120.4835W	792	266.0691	224.0571	17598	18455
CHCP	37.1945N	121.1847W	513	266.4167	260.4592	84187	85044
CARJ	38.6865N	120.9563W	460	266.4670	297.0242	59431	60288
CBAVV	36.6458N	121.0298W	604	267.1990	246.8360	37332	38189
CPMP	36.2152N	120.7948W	784	267.7739	235.1043	26178	27035
CPPT	36.1083N	120.7212W	506	268.3135	232.0086	25320	26177
CPMCV	35.7247N	120.3705W	488	270.3445	219.6343	13308	14165
CBBG	36.5783N	121.0385W	1097	271.1519	245.4572	35616	36473
CPWK	35.8145N	120.5112W	503	273.2051	223.5185	16740	17597
CDEM	36.6613N	121.0960W	488	273.3325	247.7766	45912	46769
CPBW	36.3150N	120.9292W	381	274.2192	238.8070	27894	28751
CTBM	35.1358N	118.5968W	1237	275.5566	174.6863	2154	3011
CBRV	36.4248N	121.0183W	541	276.7646	242.0418	33042	33899
CAGI	38.8447N	120.9813W	305	277.3726	300.0007	55999	56856
CCMP	37.3577N	121.3085W	799	277.7083	264.6099	74017	74874
CBBN	36.5100N	121.0755W	448	278.1406	244.3851	34758	35615
CHQRZ	36.8337N	121.2127W	536	278.9753	252.4337	40764	41621
CHQRV	36.8337N	121.2127W	536	278.9753	252.4337	39906	40763
CPIV	35.9065N	120.6823W	497	279.6272	227.8118	21030	21887
CTCG	35.2422N	119.7233W	1204	280.9299	200.9132	4728	5585
CHPLV	37.0522N	121.2900W	152	280.9661	257.6833	41622	42479
CBEH	36.6647N	121.1742W	342	281.2781	248.5193	46770	47627
CCOS	37.5085N	121.3740W	1020	283.9016	268.1023	75733	76590

CBVL	36.5752N	121.1890W	510	286.6306	246.7873	42480	43337
CHLT	36.8845N	121.3082W	183	287.5229	254.1454	93625	94482
CBHR	36.7278N	121.2638W	213	288.1523	250.5445	51060	51917
CHJS	36.8165N	121.2987W	215	288.6946	252.6462	91909	92766
CPSA	36.0253N	120.8883W	184	288.7834	232.8339	24462	25319
CBPI	36.4900N	121.1735W	329	288.9741	244.9233	33900	34757
CPLO	36.2465N	121.0425W	308	289.0176	238.8078	28752	29609
CTTR	35.0873N	119.5347W	1021	290.8179	195.8091	3870	4727
CBSCV	36.6417N	121.2598W	323	291.1042	248.7380	38190	39047
CBLR	36.6660N	121.2727W	232	291.4692	249.3359	47628	48485
CARR	38.7653N	121.1718W	127	291.8774	296.4146	60289	61146
CHFE	36.9833N	121.4015W	323	294.7925	256.7476	86761	87618
CBSL	36.7755N	121.3493W	155	295.4629	252.1293	48486	49343
CHGS	37.0958N	121.4472W	778	297.1470	259.3140	89335	90192
CBCG	36.7092N	121.3433W	305	297.2048	250.7376	50202	51059
CCMM	37.4557N	121.4937W	1117	297.4717	267.0630	73159	74016
CCST	37.6392N	121.4982W	205	297.6016	270.9729	77449	78306
CBJO	36.6108N	121.3135W	1052	297.9448	248.5394	43338	44195
CHPH	36.8563N	121.4062W	122	298.8921	254.1396	95341	96198
CHKR	36.9017N	121.4260W	66	299.6665	255.1820	92767	93624
CBSGV	36.4138N	121.2537W	192	300.7324	244.1798	32184	33041
CCA0V	37.3493N	121.5327W	628	302.6526	264.8787	64579	65436
CHCA	37.0253N	121.4837W	332	302.6938	258.0029	81613	82470
CBVY	36.7493N	121.4133W	585	303.1541	252.0191	49344	50201
CTBH	35.1850N	120.0842W	1140	303.3879	207.6062	5586	6443
CHSP	37.1152N	121.5157W	850	304.2583	259.9783	98773	99630
CHFH	36.8882N	121.4688W	101	304.6646	255.1387	87619	88476
CPMG	35.4298N	120.5203W	529	306.6895	218.1007	6444	7301
CPAN	35.7797N	120.9073W	451	307.8877	228.9923	7302	8159
CHOR	36.9172N	121.5077W	98	308.0454	255.9243	94483	95340
CBJC	36.5470N	121.3922W	207	308.7539	247.9084	45054	45911
CPJLV	36.0898N	121.1555W	290	309.0591	237.2413	9876	10733
CTMA	34.8508N	119.2208W	1981	309.5027	188.2059	3012	3869
CHSF	36.8120N	121.4995W	340	310.2588	253.7904	97057	97914
CHFP	36.7537N	121.4905W	705	311.1978	252.5935	88477	89334
CCMR	37.5947N	121.6370W	500	313.0144	270.0239	74875	75732
CCBS	37.8177N	121.6405W	58	314.3723	274.5225	65437	66294
CHBT	36.8502N	121.5507W	98	314.5867	254.8225	80755	81612
CCML	37.4773N	121.6515W	1076	314.9087	267.6606	72301	73158
CHCR	36.9577N	121.5835W	241	315.1899	257.0896	85045	85902
CAVR	39.0245N	121.2708W	114	315.4045	300.2202	61147	62004
CCAD	37.1638N	121.6258W	207	315.4661	261.3289	62863	63720
CABJ	39.1650N	121.1912W	457	316.2085	303.4846	54283	55140
CBSRV	36.6665N	121.5187W	395	317.2471	251.0927	39048	39905
CCDVV	37.5663N	121.6802W	250	317.8428	269.4575	68011	68868
CHAZ	36.8847N	121.5908W	122	317.9175	255.6994	79897	80754
CHJG	36.7980N	121.5738W	171	318.6494	253.9375	91051	91908
CCCO	37.2577N	121.6725W	366	319.2036	263.3152	66295	67152
CPBY	35.8150N	121.0815W	335	320.3318	231.8084	8160	9017
CCMN	37.6275N	121.7083W	245	320.9709	270.6711	68869	69726
CHGW	37.0170N	121.6503W	133	321.0515	258.5305	90193	91050
CHCB	36.9313N	121.6605W	219	324.2180	256.9238	82471	83328
CHYL	36.8353N	121.6440W	204	325.0591	255.0205	85903	86760
CBPP	36.1687N	121.3780W	1591	325.7827	240.9092	29610	30467
CCVA	37.6183N	121.7582W	201	326.5161	270.4812	126137	126994
CCMH	37.3595N	121.7563W	518	327.3630	265.4644	70585	71442

CHPR	36.9532N	121.6950W	94	327.4185	257.4902	96199	97056
CJRR	37.0545N	121.7268W	408	328.6121	259.5366	102205	103062
CCSC	37.2852N	121.7725W	128	329.9297	264.0654	76591	77448
CHCO	36.8885N	121.7057W	129	330.2336	256.3188	83329	84186
CCALV	37.4512N	121.7992W	265	331.4678	267.2783	63721	64578
CBPC	36.5720N	121.6260W	183	332.0701	250.0449	44196	45053
CBHS	36.3558N	121.5398W	646	332.3889	245.5712	31326	32183
CCVL	37.6263N	121.8357W	245	335.1509	270.6199	69727	70584
CAOH	39.3753N	121.2560W	457	335.6741	306.1499	58573	59430
CCMJ	37.5208N	121.8705W	498	339.1150	268.6411	71443	72300
CPAP	35.9128N	121.3617W	1015	339.2356	236.5314	9018	9875
CJBZ	37.0178N	121.8192W	213	339.4910	259.1765	99631	100488
CJPL	36.9770N	121.8322W	158	341.8054	258.4771	101347	102204
CBPR	36.4070N	121.7295W	741	349.5337	247.8574	134783	135640
CHMO	36.6005N	121.9177W	192	361.8018	252.2743	51918	52775
CBPF	36.2300N	121.7717W	349	361.8174	245.2405	30468	31325
CCCY	37.5517N	122.0908W	67	363.5708	269.2712	67153	68010
CJLT	37.3537N	122.2042W	270	377.1423	265.9663	100489	101346
CWWVB	0.0000	0.0000	0	13865.7227	107.4448	438	1295
CIRGI	0.0000	0.0000	0	13865.7227	107.4448	1296	2153

C*

C* ORIGINAL WAVEFORM CARDS

C7313	84	0616	730	WFC	USGSWWVB		7	30	8.40	100	136	16	
C7313	84	0616	730	WFC	USGSIRGI		7	30	8.40	100	136	16	
C7313	84	0616	730	WFC	USGSTBM	35.1358N 118.5968W	1237	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSTMA	34.8508N 119.2208W	1981	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSTTR	35.0873N 119.5347W	1021	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSTCG	35.2422N 119.7233W	1204	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSTBH	35.1850N 120.0842W	1140	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPMG	35.4298N 120.5203W	529	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPAN	35.7797N 120.9073W	451	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPBY	35.8150N 121.0815W	335	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPAP	35.9128N 121.3617W	1015	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPJLV	36.0898N 121.1555W	290	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPTR	35.6547N 120.2112W	643	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPAG	35.7320N 120.2493W	482	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPMR	35.7848N 120.2357W	512	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPMCV	35.7247N 120.3705W	488	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPSR	35.8578N 120.2802W	552	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPGH	35.8310N 120.3528W	433	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPHA	35.8360N 120.3985W	455	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPWK	35.8145N 120.5112W	503	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPHGV	35.8760N 120.4835W	792	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPPF	35.8818N 120.4135W	469	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPCA	35.9317N 120.3370W	1189	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPST	35.9288N 120.5083W	573	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPIV	35.9065N 120.6823W	497	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPCR	36.0938N 120.4347W	296	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPAR	36.2492N 120.3420W	485	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPSM	36.0697N 120.5947W	988	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPSA	36.0253N 120.8883W	184	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPPT	36.1083N 120.7212W	506	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPMP	36.2152N 120.7948W	784	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPHR	36.3730N 120.8183W	732	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPBW	36.3150N 120.9292W	381	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPLO	36.2465N 121.0425W	308	7	30	8.40	100	136	16

C7313	84	0616	730	WFC	USGSBPP	36.1687N	121.3780W	1591	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBPF	36.2300N	121.7717W	349	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBHS	36.3558N	121.5398W	646	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBSGV	36.4138N	121.2537W	192	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBRV	36.4248N	121.0183W	541	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBPI	36.4900N	121.1735W	329	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBBN	36.5100N	121.0755W	448	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBBG	36.5783N	121.0385W	1097	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBMS	36.6630N	120.7918W	811	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBAVV	36.6458N	121.0298W	604	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBSCV	36.6417N	121.2598W	323	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBSRV	36.6665N	121.5187W	395	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHQRV	36.8337N	121.2127W	536	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHQRZ	36.8337N	121.2127W	536	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHPLV	37.0522N	121.2900W	152	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBVL	36.5752N	121.1890W	510	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBJO	36.6108N	121.3135W	1052	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBPC	36.5720N	121.6260W	183	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBJC	36.5470N	121.3922W	207	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBEM	36.6613N	121.0960W	488	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBEH	36.6647N	121.1742W	342	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBLR	36.6660N	121.2727W	232	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBSL	36.7755N	121.3493W	155	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBVY	36.7493N	121.4133W	585	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBCG	36.7092N	121.3433W	305	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBHR	36.7278N	121.2638W	213	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHMO	36.6005N	121.9177W	192	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMHD	37.1235N	119.8923W	180	7	30	41.78	100	103	16
C7313	84	0616	730	WFC	USGSMYL	37.3780N	120.4197W	84	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSABJ	39.1650N	121.1912W	457	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSADW	38.4392N	120.8482W	251	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSAGI	38.8447N	120.9813W	305	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSALA	38.5667N	120.9562W	293	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSAOD	38.6148N	120.7285W	520	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSAOH	39.3753N	121.2560W	457	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSARJ	38.6865N	120.9563W	460	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSARR	38.7653N	121.1718W	127	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSAVR	39.0245N	121.2708W	114	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSBRM	36.8450N	120.8237W	372	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCAD	37.1638N	121.6258W	207	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCALV	37.4512N	121.7992W	265	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCAOV	37.3493N	121.5327W	628	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCBS	37.8177N	121.6405W	58	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCCO	37.2577N	121.6725W	366	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCCY	37.5517N	122.0908W	67	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCDVV	37.5663N	121.6802W	250	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMN	37.6275N	121.7083W	245	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCVL	37.6263N	121.8357W	245	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMH	37.3595N	121.7563W	518	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMJ	37.5208N	121.8705W	498	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCML	37.4773N	121.6515W	1076	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMM	37.4557N	121.4937W	1117	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMP	37.3577N	121.3085W	799	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCMR	37.5947N	121.6370W	500	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCOS	37.5085N	121.3740W	1020	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCSC	37.2852N	121.7725W	128	7	30	8.40	100	136	16

C7313	84	0616	730	WFC	USGSCST	37.6392N	121.4982W	205	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSWMDR	37.4435N	118.6370W	1683	7	30	28.60	100	116	16
C7313	84	0616	730	WFC	USGSCCLK	37.5902N	118.8242W	2630	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHAZ	36.8847N	121.5908W	122	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHBT	36.8502N	121.5507W	98	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHCA	37.0253N	121.4837W	332	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHCB	36.9313N	121.6607W	219	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHCO	36.8885N	121.7057W	129	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHCP	37.1945N	121.1847W	513	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHCR	36.9577N	121.5835W	241	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHDL	36.8353N	121.6440W	204	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHFE	36.9833N	121.4015W	323	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHFH	36.8882N	121.4688W	101	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHFP	36.7537N	121.4905W	705	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHGS	37.0958N	121.4472W	778	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHGW	37.0170N	121.6503W	133	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHJG	36.7980N	121.5738W	171	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHJS	36.8165N	121.2987W	215	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHKR	36.9017N	121.4260W	66	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHLT	36.8845N	121.3082W	183	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHOR	36.9172N	121.5077W	98	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHPH	36.8563N	121.4062W	122	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHPR	36.9532N	121.6950W	94	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHSF	36.8120N	121.4995W	340	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHSL	37.0193N	121.0855W	520	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSHSP	37.1152N	121.5157W	850	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSJBZ	37.0178N	121.8192W	213	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSJLT	37.3537N	122.2042W	270	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSJPL	36.9770N	121.8322W	158	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSJRR	37.0545N	121.7268W	408	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMAT	37.8733N	119.8667W	1353	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMCH	38.0187N	120.5095W	475	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMCU	37.9727N	120.6170W	336	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMNH	38.1458N	120.8137W	219	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMNP	37.4150N	119.7283W	1000	7	30	38.16	100	107	16
C7313	84	0616	730	WFC	USGSMNP	37.4150N	119.7283W	1000	7	30	38.16	100	107	16
C7313	84	0616	730	WFC	USGSMOY	37.9000N	120.5673W	176	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMRF	38.2453N	120.5207W	799	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMST	37.9045N	120.4048W	366	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSSRT	35.6918N	117.7493W	698	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSFRI	36.9917N	119.7083W	119	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCASR	37.5748N	118.5515W	2107	7	30	28.73	100	116	16
C7313	84	0616	730	WFC	USGSCCLKR	37.5902N	118.8242W	2630	7	30	25.62	100	119	16
C7313	84	0616	730	WFC	USGSBENR	37.7155N	118.5733W	2463	7	30	29.02	100	116	16
C7313	84	0616	730	WFC	USGSEMH	37.6663N	118.9392W	2495	7	30	26.90	100	118	16
C7313	84	0616	730	WFC	USGSLCC	37.6105N	118.9158W	2550	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSMCCR	38.3608N	119.1283W	2548	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSORCR	37.6353N	118.6560W	2301	7	30	27.33	100	117	16
C7313	84	0616	730	WFC	USGSSCHR	37.3658N	118.6870W	2365	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSSHL	37.6167N	118.9550W	2530	7	30	26.73	100	118	16
C7313	84	0616	730	WFC	USGSRSM	37.5107N	118.8822W	3680	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSTAC	37.6317N	118.9650W	2398	7	30	26.92	100	75	16
C7313	84	0616	730	WFC	USGSDOE	37.6387N	118.8355W	2220	7	30	25.88	100	119	16
C7313	84	0616	730	WFC	USGSWCH	35.8830N	118.0747W	2475	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSWKT	35.7940N	118.4425W	890	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSWOF	35.5357N	118.7125W	1341	7	30	8.40	100	136	16

C7313	84	0616	730	WFC	USGSSHLR	37.6167N	118.9550W	2530	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSLCCR	37.6105N	118.9158W	2550	7	30	26.24	100	119	16
C7313	84	0616	730	WFC	USGSRCCR	37.4877N	118.7217W	2804	7	30	27.22	100	118	16
C7313	84	0616	730	WFC	USGSCVA	37.6183N	121.7582W	201	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPWM	36.4328N	120.2110W	72	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPHB	36.2488N	120.0827W	100	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPDR	36.3357N	120.3687W	488	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSPKE	36.0615N	120.1090W	288	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSCVM	37.6098N	118.8733W	2260	7	30	25.84	100	119	16
C7313	84	0616	730	WFC	USGSCSR	37.6777N	118.8183W	2122	7	30	8.40	100	136	16
C7313	84	0616	730	WFC	USGSSKI	37.6530N	119.0238W	2660	7	30	27.81	100	117	16
C7313	84	0616	730	WFC	USGSCHS	37.6550N	118.9045W	2420	7	30	26.45	100	118	16
C7313	84	0616	730	WFC	USGSSHLN	37.6167N	118.9550W	2530	7	30	26.73	100	82	16
C7313	84	0616	730	WFC	USGSGRP	37.6265N	118.9013W	2208	7	30	26.17	100	119	16
C7313	84	0616	730	WFC	USGSBPR	36.4070N	121.7295W	741	7	30	8.40	100	136	16

C*

C*ITEM DIRECTORY: THE FOLLOWING ITEMS PRECEDE DIGITAL DATA

C*

	LINES	
ITEM	START	END
PHC	880	903
STA	904	922
SAT	923	993
SPC	994	2128
CQ1	2129	2170
CQ2	2171	2248
CQ3	2249	2344
WFC	2345	2362

C*

C*DIRECTORY: THE FOLLOWING STATION TRACES ARE IN THIS FILE

C*

	LINES	
STATION	START	END
CLKR	2363	3052
DOE	3053	3742
CVM	3743	4432
GRP	4433	5122
CSR	5123	5812
LCCR	5813	6502
CHS	6503	7192
RSM	7193	7882
SHL	7883	8572
EMH	8573	9262
TAC	9263	9952
RCCR	9953	10642
ORCR	10643	11332
SKI	11333	12022
WMDR	12023	12712
SCHR	12713	13402
CASR	13403	14092
BENR	14093	14782

C*END-----

7313	84	0616	730	SUC	33.87	37.5935N	118.8253W	8.77A	2.9D	20	54	0	.09	
7313	84	0616	730	PHC	USGSMHD	IPU0	52.26							

7313	84	0616	730	PHC	USGSWMDR	IPU0	38.52
7313	84	0616	730	PHC	USGSCLK	EP4	35.65
7313	84	0616	730	PHC	USGSMNP	IPU0	47.96
7313	84	0616	730	PHC	USGSMNPN	P4	48.01
7313	84	0616	730	PHC	USGSCASR	IPD0	38.87
7313	84	0616	730	PHC	USGSCLKR	IPD0	35.65
7313	84	0616	730	PHC	USGSBENR	IPD0	38.85
7313	84	0616	730	PHC	USGSEMH	IPD0	36.93

***** 13893 data cards not shown here *****

C#FINIS DSN=SL000100

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