

UNITED STATES
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CATALOG OF PARKFIELD EARTHQUAKES FROM MARCH 1984
TO JUNE 1988: RETIMED AND RELOCATED EVENTS

BY

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and stratigraphic nomenclature. Any use of tradenames is for descriptive purposes only and does not imply endorsement by the USGS

INTRODUCTION

Locations used for generating catalogs of northern California seismicity are based on routine timing that succeeds in keeping the catalog current but does not allow an analyst to spend much time on any individual earthquake. For this reason Parkfield earthquakes during the period when digital data are available were first retimed, then relocated. Three sets of station corrections were developed for different areas of the fault near Parkfield and may be used in the future for better hypocentral locations of Parkfield events. This report also gives new locations for events from March, 1984 to June, 1988.

METHOD AND DATA

Events were selected if they located within the Parkfield box (Figure 1) and south of $36^{\circ}3'N$, and had digital seismograms. Processing was done using the Caltech-U.S.G.S. Seismic Processing (CUSP) System where 480 channels were digitized at a rate of 100 Hz. Events were timed interactively on a CRT with a precision of 1/100th of a second (Johnson and Stewart, 1988). In this stage, the major differences introduced into the data set are the additions of new P arrival picks on stations that were not previously read, minor adjustment of arrival times on previously read stations, and, rarely, changes in first motion picks on previously read stations. Retiming events not only insures that all good P arrival picks are read, but also insures that there is consistency in weighting picks. Routine catalog timing for this period of time was done by a dozen or more different timers with different levels of experience. This is especially evident in early 1984 events when the CUSP system began recording. Every event was archived onto a separate set of tapes containing seismograms only from the Parkfield region. This allows one to quickly and easily recover Parkfield seismograms instead of having to search through the Northern California archive tapes. Paper records of trace outputs (TROUTS) from each event were also generated, and were used to double-check P arrival picks.

Events were then relocated using the the 1-D velocity model from Nowack et al. (unpublished data, 1982) (Table 1) and new station corrections developed from VELEST, a joint hypocentral and velocity inversion program (Roecker and Ellsworth, 1978; modified by Kissling, personal communication, 1987). Station corrections were developed for three

different areas of the fault from VELEST (Table 2) and used in HYPOINVERSE (Klein, 1985). Events north of $35^{\circ}52'$ were relocated using Middle Mountain station corrections which were derived in Nishioka and Michael (1988). Events south of $35^{\circ}52'$ and north of $35^{\circ}40'$ used station corrections developed for events near Gold Hill, and events south of $35^{\circ}40'$ used station corrections developed for Simmler events.

Locations for Parkfield events are listed in Table 3 and shown in Figure 2. For comparison, locations of comparable events using routine timing, the model in Table 1 and one set of station corrections are shown in Figure 3. Magnitudes were not recalculated for this catalog and no magnitudes were computed for those events with 0 magnitude. No magnitude scaling was used when plotting earthquakes. A cross-section taken along the fault (A-A') looking northwest is shown in Figure 4.

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FIGURE CAPTIONS

Figure 1. Regional map of Parkfield showing Parkfield box.

Figure 2. Map showing location of earthquakes from March 1984 to June 1988 after retiming and relocating. Cross-section A-A' is also shown. Note that earthquake symbols are not scaled to magnitude.

Figure 3. Map showing previous location of earthquakes before retiming and relocating. Earthquake symbols are not scaled to magnitude.

Figure 4. Cross-section taken along the fault at A-A.' Middle Mountain is located approximately 20 km from A and Gold Hill is 40 km from A.

Table 1. Parkfield velocity model.

Depth	P velocity
(km)	(km/sec)
0.00	1.42
0.25	3.24
1.50	4.82
2.50	5.36
3.50	5.60
6.00	5.87
9.00	6.15
15.00	6.60
20.00	8.00

Table 2. Station corrections.

STATION	LATITUDE	LONGITUDE	MIDDLE MTN	GOLD HILL	SIMMLER
PABM	35 9.41	120 38.17	0.00	0.00	0.20
PADM	35 38.36	120 51.86	-0.23	-0.23	-0.16
PAGM	35 43.92	120 14.96	0.15	0.01	-0.08
PANM	35 46.78	120 54.44	-0.24	-0.24	-0.09
PAPM	35 54.77	121 21.70	-0.54	-0.54	-0.54
PARM	36 14.95	120 20.52	1.29	1.29	1.29*
PAVM	35 10.55	120 37.95	0.32	0.32	0.32
PBIM	35 9.68	120 28.42	0.51	0.51	0.22
PBMM	35 23.68	120 21.16	0.00	0.00	0.00
PBRM	35 32.91	121 0.54	-0.21	-0.21	-0.21
PBWM	36 18.90	120 55.75	-0.15	-0.15	-0.15
PBYM	35 48.90	121 4.89	-0.30	-0.30	-0.30
PCAM	35 55.90	120 20.22	0.66*	0.47*	0.35
PCBM	35 31.11	121 3.56	0.00	0.00	0.00
PCGM	35 25.52	120 44.34	-0.36	-0.36	-0.41
PCLM	35 56.48	120 31.53	-0.20	-0.20	-0.20
PCRM	36 5.65	120 26.08	0.60*	0.48*	0.48*
PCYM	36 5.45	121 9.37	0.00	0.00	0.00
PDIM	36 20.18	120 22.58	0.70	0.70	0.70
PDRM	36 20.14	120 22.12	1.40	1.40	1.40*
PGCM	35 10.67	120 36.98	0.00	0.00	0.00
PGHM	35 49.86	120 21.17	-0.19*	-0.08*	-0.16*
PGWM	35 11.03	120 37.62	0.00	0.00	0.00
PHAM	35 50.16	120 23.91	0.07	0.04	-0.13
PHBM	36 14.93	120 4.96	1.90	1.90	1.90
PHCM	35 40.93	121 9.15	-0.26	-0.26	-0.26
PHFM	35 52.91	120 24.03	0.00	0.0	0.00
PHGM	35 52.56	120 29.01	0.00*	0.00	0.08
PHOM	35 52.12	120 28.88	0.13	0.04	-0.12
PHPM	35 59.13	120 36.12	-0.19	-0.31	-0.31
PHRM	36 22.38	120 49.10	0.26	0.26	0.26
PHSM	35 49.45	121 3.17	0.00	0.00	0.01
PIVM	35 54.39	120 40.94	0.10	0.14	0.06
PJLM	36 5.39	121 9.33	-0.20*	-0.20	-0.20
PJRM	36 5.02	121 10.15	0.00	0.00	0.00
PKEM	36 3.69	120 6.54	1.56*	1.56	1.56
PKMC	34 53.75	119 49.13	0.00	0.00	-0.26
PKYM	35 15.83	120 39.94	0.00	0.00	-0.22
PLOM	36 14.79	121 2.55	-0.35	-0.35	-0.35
PMCM	35 43.48	120 22.23	0.17	0.13	-0.09
PMGM	35 25.79	120 31.22	-0.61	-0.61	-0.49
PMLM	34 53.70	120 36.51	0.64	0.64	0.65
PMMM	35 57.39	120 29.84	0.28	0.28	0.16
PMPM	36 12.91	120 47.69	0.02	-0.09	-0.09
PMRM	35 47.09	120 14.14	0.13	0.00	0.18
PPBM	35 15.63	120 53.07	0.00	0.00	0.00
PPCM	35 56.98	120 35.66	-0.27	-0.35	-0.35
PPFM	35 52.91	120 24.81	0.20	0.07	0.10*
PPRM	35 38.86	120 42.04	-0.44	-0.43	-0.35
PPTM	36 6.50	120 43.27	-0.08	0.00	0.09
PRCM	36 15.37	120 37.20	0.66	0.70	0.70
PSAM	36 1.52	120 53.30	-0.29	-0.03	-0.09

PSCM	35 35.30	120 25.58	0.00	0.00	0.00
PSEM	35 14.71	120 45.88	0.24	0.24	0.24
PSHM	35 35.45	120 24.92	0.00	-0.03	0.09
PSIM	36 22.92	120 58.17	0.00	0.00	0.00
PSMM	36 4.18	120 35.68	0.41*	0.28*	0.41
PSRM	35 51.47	120 16.81	0.21	0.01	-0.13
PSTM	35 55.73	120 30.50	-0.15	-0.11	-0.23
PTFM	35 53.65	120 24.60	0.07*	0.08*	-0.04*
PTQM	34 34.88	120 34.29	0.00	0.00	0.00
PTRM	35 39.28	120 12.67	-0.11	-0.11	-0.06
PTYM	35 56.73	120 28.45	0.13	0.13	0.13
PVCM	35 55.32	120 32.06	-0.08	-0.16	-0.25
PWKM	35 48.87	120 30.67	0.16	0.16	0.02
PWMM	36 25.97	120 12.66	1.76	1.76	1.76
SIMC	35 21.02	119 58.74	0.00	0.00	0.00
YEGC	35 26.18	119 57.56	0.00	0.00	0.00

Starred stations were not used for locating events in those areas.

Table 3. PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988

1984	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
MAR	1	18	54	41.7	36- 1.12	120-34.60	3.85	1.5	6 154	12.0	0.03	0.4	2.5
	1	20	4	24.9	36- 1.39	120-34.24	4.37	2.6	13 86	12.0	0.04	0.1	0.4
	7	14	33	24.9	36- 1.24	120-34.11	4.69	1.7	13 97	12.0	0.03	0.1	0.3
	13	0	47	53.4	35-54.93	120-26.94	8.95	2.0	14 160	5.0	0.04	0.2	0.1
	14	15	32	23.2	36- 1.66	120-34.69	3.19	1.4	9 168	13.0	0.03	0.2	3.3
	20	12	40	7.3	35-59.88	120-33.13	5.07	1.1	8 164	9.0	0.03	0.3	0.5
	20	22	52	10.5	36- 3.49	120-35.92	6.52	1.2	9 143	12.0	0.04	0.2	1.0
	25	9	45	59.4	36- 2.86	120-35.83	4.59	1.9	13 131	13.0	0.03	0.1	0.3
	APR 1	16	54	18.6	35-59.94	120-33.53	2.90	1.4	9 132	9.0	0.04	0.2	0.5
	4	3	57	36.1	35-59.08	120-32.03	4.35	0.8	5 193	7.0	0.01	0.2	0.5
APR	5	20	36	7.0	35-44.25	120-17.62	10.97	1.5	11 97	7.0	0.02	0.1	0.3
	9	19	25	25.3	36- 0.88	120-33.67	3.59	1.4	8 167	11.0	0.03	0.2	3.2
	10	11	30	44.8	36- 0.04	120-31.77	14.97	1.2	7 250	8.0	0.02	0.4	0.3
	10	11	30	59.6	35-59.83	120-32.03	14.44	1.3	6 154	8.0	0.03	0.3	0.5
	20	9	25	18.1	36- 0.69	120-33.46	5.23	1.2	9 167	10.0	0.04	0.2	0.5
	20	11	15	32.3	35-59.74	120-32.76	4.75	1.5	9 173	8.0	0.03	0.2	0.4
	MAY 2	21	39	18.4	36- 0.08	120-33.03	2.93	1.4	8 165	9.0	0.06	0.5	0.9
	10	12	13	40.9	35-47.66	120-20.73	8.11	1.5	13 71	7.0	0.01	0.1	0.2
	10	12	20	25.9	35-47.65	120-20.73	8.08	1.3	12 82	7.0	0.02	0.1	0.3
	11	17	53	11.5	35-55.62	120-28.03	5.07	1.3	7 162	4.0	0.05	0.3	0.4
MAY	12	4	8	51.0	36- 0.73	120-33.54	4.40	1.9	9 154	10.0	0.03	0.2	0.5
	13	20	12	51.4	35-56.09	120-28.70	5.36	0.7	6 214	3.0	0.02	0.2	0.3
	20	12	34	43.1	35-33.92	120- 7.51	11.98	1.1	10 270	13.0	0.03	0.7	0.3
	20	20	47	28.4	36- 1.38	120-34.13	4.83	1.8	11 135	12.0	0.03	0.1	0.3
	25	3	51	25.3	35-30.52	120- 3.10	11.65	1.9	14 162	22.0	0.03	0.1	0.9
	30	16	23	9.1	35-47.20	120-19.63	3.23	1.2	10 71	8.0	0.02	0.1	0.3
	JUN 4	8	14	15.3	35-48.84	120-21.77	3.72	0.8	11 87	4.0	0.02	0.1	0.3
	7	18	10	4.3	35-44.54	120-18.11	10.86	0.9	12 73	5.0	0.03	0.2	0.4
	9	16	15	53.4	35-51.64	120-26.24	8.64	1.0	10 82	3.0	0.08	0.3	0.3
	20	21	1	36.5	35-59.96	120-32.54	4.94	1.4	8 191	8.0	0.04	0.3	0.4
JUN	22	16	6	51.3	35-55.71	120-28.04	5.24	1.3	8 163	4.0	0.04	0.2	0.3
	23	3	43	23.5	36- 1.41	120-34.10	4.78	1.7	11 168	12.0	0.03	0.2	0.4
	23	6	11	54.0	35-54.99	120-27.78	5.47	0.	7 182	4.0	0.01	0.1	0.2
	24	19	49	52.2	36- 0.01	120-33.33	4.15	1.2	8 153	9.0	0.02	0.2	0.6
	29	9	36	37.7	35-55.58	120-28.03	5.32	1.6	8 162	4.0	0.03	0.2	0.2
	JUL 16	2	21	7.5	35-48.61	120-21.04	2.78	0.8	8 85	5.0	0.04	0.2	0.6
	28	10	11	49.9	36- 0.04	120-32.34	11.74	1.7	13 138	8.0	0.04	0.2	0.4
	29	17	9	31.9	35-59.36	120-32.64	2.75	1.1	7 171	7.0	0.09	0.5	1.4
	29	21	14	28.9	36- 0.33	120-33.82	4.93	1.1	7 176	10.0	0.14	0.8	1.8
	30	1	58	37.0	35-45.03	120-17.78	5.74	0.8	9 90	5.0	0.02	0.1	0.2
AUG	1	1	28	52.3	36- 0.14	120-33.28	3.80	1.2	6 184	9.0	0.02	0.2	1.6
	1	2	44	39.9	36- 0.24	120-33.17	3.15	2.0	12 165	9.0	0.03	0.1	0.4
	1	2	44	47.6	36- 0.50	120-33.06	3.35	2.0	5 192	10.0	0.02	0.5	2.6
	9	15	57	50.5	35-58.89	120-31.28	11.73	2.0	12 138	6.0	0.04	0.2	0.4
	11	1	48	33.5	35-59.00	120-31.65	11.78	1.5	11 165	6.0	0.03	0.2	0.3

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

1984	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	
AUG	11	5	34	38.9	35-59.00	120-31.62	11.61	1.5	12	137	6.0	0.04	0.2	0.4
	11	7	3	59.6	35-53.78	120-25.90	10.73	1.2	11	154	2.0	0.04	0.2	0.3
	12	6	55	15.6	35-58.95	120-31.40	11.62	1.7	11	165	6.0	0.02	0.2	0.3
	13	5	52	58.8	35-58.75	120-30.98	7.71	1.6	12	138	6.0	0.04	0.2	0.4
	14	22	42	35.1	36- 1.68	120-34.30	4.87	1.4	8	160	12.0	0.03	0.2	0.3
SEP	14	23	16	44.0	36- 1.63	120-34.37	3.05	1.3	7	168	12.0	0.03	0.2	3.2
	26	21	56	26.8	35-53.51	120-25.70	10.31	0.6	8	165	2.0	0.04	0.3	0.3
	1	22	36	6.4	35-47.07	120-20.10	7.75	2.6	13	64	7.0	0.01	0.1	0.2
	1	23	47	39.3	36- 0.20	120-33.00	4.92	1.7	12	135	9.0	0.04	0.2	0.3
	3	17	40	15.7	36- 0.12	120-33.14	3.93	1.5	9	135	9.0	0.02	0.1	2.1
	4	12	22	26.8	35-47.10	120-19.62	2.56	0.7	11	71	8.0	0.03	0.1	0.5
	5	8	34	49.8	36- 0.	120-33.14	2.92	1.6	11	173	9.0	0.03	0.2	0.4
	5	18	57	55.5	35-59.64	120-33.96	1.86	1.2	4	186	9.0	0.01	0.4	1.8
	5	20	31	3.8	35-51.31	120-23.81	3.96	2.0	10	114	2.0	0.04	0.1	0.3
	5	20	49	15.0	35-51.42	120-23.88	3.76	1.5	9	115	2.0	0.03	0.1	0.2
	7	21	47	53.7	36- 0.78	120-34.60	3.99	2.0	6	184	11.0	0.13	0.8	8.4
	7	21	48	9.6	36- 0.94	120-33.91	4.82	2.0	13	98	11.0	0.02	0.1	0.2
	7	21	48	25.4	36- 0.88	120-33.91	4.66	2.5	10	134	11.0	0.04	0.2	0.4
	8	5	43	53.5	35-48.44	120-21.03	4.82	1.1	11	82	5.0	0.02	0.1	0.3
	10	16	51	0.9	36- 0.38	120-33.13	4.82	1.9	11	167	9.0	0.03	0.1	0.3
OCT	20	18	27	56.7	36- 1.36	120-34.02	4.78	1.7	12	98	12.0	0.03	0.1	0.3
	24	18	56	32.7	35-55.85	120-28.32	5.25	1.7	9	163	3.0	0.04	0.2	0.2
	27	21	0	8.1	35-53.43	120-25.87	10.53	1.4	12	151	2.0	0.05	0.2	0.3
	2	18	38	6.4	35-59.99	120-33.38	4.54	1.7	12	133	9.0	0.03	0.2	0.3
	2	18	38	37.4	35-59.81	120-33.82	3.62	1.3	9	161	9.0	0.03	0.2	2.6
	2	20	0	35.1	36- 0.09	120-33.24	4.33	1.4	9	164	9.0	0.03	0.2	0.5
	6	0	29	16.9	35-59.74	120-32.51	5.32	1.7	8	166	8.0	0.03	0.2	0.3
	8	21	26	34.9	36- 0.67	120-33.76	5.60	1.5	10	133	10.0	0.03	0.1	0.3
	10	22	16	52.4	36- 2.56	120-38.54	5.98	0.8	4	238	10.0	0.02	1.0	2.4
	14	21	41	48.2	35-56.96	120-29.59	6.16	0.9	5	241	3.0	0.03	0.4	0.3
	22	5	38	42.9	35-54.87	120-27.57	5.53	0.7	7	181	5.0	0.02	0.1	0.2
	23	7	57	26.7	36- 2.39	120-35.38	3.04	1.1	8	169	14.0	0.02	0.1	2.5
	6	1	54	9.0	36- 1.80	120-34.80	5.07	1.5	13	133	11.0	0.05	0.2	0.4
	17	13	47	51.1	35-58.43	120-31.21	6.28	1.1	10	170	3.0	0.02	0.1	0.1
	24	12	43	41.3	35-58.41	120-30.73	11.53	1.9	15	138	2.0	0.03	0.2	0.2
NOV	24	18	59	53.8	36- 1.63	120-34.90	5.72	1.4	10	142	11.0	0.02	0.1	0.2
	27	18	21	40.7	35-57.72	120-30.27	5.61	1.1	9	169	1.0	0.02	0.1	0.1
	27	23	38	13.1	35-55.74	120-28.29	4.81	1.6	12	151	3.0	0.04	0.2	0.2
	28	6	15	11.8	35-58.97	120-31.91	6.06	1.0	7	183	4.0	0.01	0.2	0.2
	29	11	22	0.9	35-55.85	120-28.34	4.58	1.3	9	153	3.0	0.04	0.2	0.3
	3	3	2	35.3	35-55.96	120-28.18	6.32	0.7	5	181	4.0	0.02	0.5	0.8
	5	22	32	52.0	35-59.37	120-33.34	1.47	1.2	7	172	6.0	0.08	0.5	3.3
DEC	17	23	41	31.6	35-50.49	120-22.60	3.82	0.9	6	175	2.0	0.02	0.3	0.4
	20	18	52	53.3	35-26.25	119-59.14	9.77	1.8	8	133	2.0	0.02	0.1	0.2
	20	20	13	38.8	35-59.52	120-31.93	14.43	0.9	10	190	5.0	0.02	0.4	0.5

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

1984	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
DEC	21	0	26	38.7	36- 1.31	120-35.10	4.15	0.7	6 183	4.0	0.02	0.2	0.4
	21	16	55	10.2	36- 0.60	120-34.35	5.89	0.5	6 181	4.0	0.02	0.3	0.4
	21	21	47	47.0	36- 0.52	120-33.72	5.69	1.4	13 176	4.0	0.02	0.1	0.1
	21	22	32	28.5	36- 0.54	120-33.69	5.57	1.7	14 177	5.0	0.02	0.1	0.1
	22	21	58	4.9	35-51.67	120-24.39	4.61	1.4	13 106	2.0	0.03	0.1	0.2
	23	13	12	7.5	35-59.01	120-32.24	2.93	1.1	13 162	5.0	0.03	0.1	0.2
	25	4	59	13.7	35-46.88	120-19.49	0.29	1.0	9 177	8.0	0.06	0.3	3.0
	27	8	48	50.1	35-42.55	120-15.24	11.26	1.7	12 155	7.0	0.02	0.2	0.3
	30	19	14	58.2	35-59.73	120-32.81	5.52	1.1	9 185	5.0	0.01	0.1	0.3
	30	22	23	16.9	35-51.10	120-23.61	3.40	0.9	6 114	2.0	0.03	0.1	0.1
	4	7	12	36.4	35-53.84	120-26.30	5.17	3.3	20 95	3.0	0.05	0.1	0.2
	5	9	3	16.8	36- 1.25	120-34.69	3.31	1.4	12 132	4.0	0.05	0.2	0.4
	17	13	55	41.9	36- 0.32	120-33.51	5.76	0.8	7 185	5.0	0.01	0.3	0.2
	18	6	41	45.6	35-49.46	120-22.39	5.96	0.9	13 95	3.0	0.02	0.1	0.1
	19	1	42	27.7	35-46.76	120-19.71	7.60	1.2	14 100	7.0	0.02	0.1	0.2
JAN	21	0	56	20.5	35-59.83	120-33.46	4.33	1.1	11 170	4.0	0.04	0.2	0.5
	21	3	52	53.2	35-46.97	120-19.83	7.89	1.2	18 62	7.0	0.02	0.1	0.2
	21	19	48	50.3	35-45.66	120-19.21	6.38	0.9	11 113	6.0	0.02	0.1	0.4
	25	0	44	28.0	35-51.52	120-24.26	4.16	1.1	11 107	3.0	0.02	0.1	0.2
	25	16	35	1.9	36- 1.33	120-34.75	4.01	0.5	4 287	5.0	0.01	1.4	1.2
	31	9	3	52.2	35-59.45	120-32.41	4.70	1.1	9 185	5.0	0.02	0.2	0.3
	31	19	31	33.1	35-53.21	120-19.83	9.23	0.9	11 187	6.0	0.05	0.3	0.5
	1	2	56	21.4	36- 0.75	120-33.68	5.68	1.9	17 99	5.0	0.03	0.1	0.1
	1	4	57	34.1	35-58.75	120-31.46	7.18	1.8	17 136	4.0	0.03	0.1	0.2
	2	14	33	27.9	36- 3.72	120-33.07	5.92	0.	4 180	15.0	0.	0.3	0.5
	13	22	38	35.3	35-48.09	120-20.72	4.26	0.1	7 152	6.0	0.02	0.1	0.8
	14	12	23	15.7	35-53.08	120-25.29	10.81	1.1	15 143	1.0	0.04	0.2	0.3
	14	13	29	18.2	36- 0.54	120-33.45	5.05	2.5	17 88	5.0	0.02	0.1	0.2
	14	13	56	41.4	36- 0.20	120-33.50	5.28	1.2	13 144	4.0	0.02	0.1	0.2
	15	16	29	11.4	36- 2.22	120-34.07	11.69	0.8	4 295	7.0	0.01	1.0	1.6
FEB	16	8	4	1.4	36- 1.31	120-34.45	5.48	1.5	16 166	5.0	0.03	0.1	0.1
	20	2	35	58.2	36- 1.50	120-35.93	8.04	0.8	7 168	8.0	0.03	0.3	0.9
	23	0	11	46.6	36- 2.36	120-36.34	4.91	1.0	5 317	6.0	0.04	2.8	1.4
	24	6	28	46.3	35-53.59	120-25.83	10.09	1.4	16 146	2.0	0.04	0.2	0.2
	24	6	44	16.8	35-59.88	120-33.30	4.03	1.2	13 133	4.0	0.02	0.1	0.4
	25	13	48	58.3	36- 0.95	120-34.06	5.51	1.4	13 166	5.0	0.02	0.1	0.1
	26	12	43	5.5	36- 0.89	120-34.03	5.49	1.7	16 166	5.0	0.02	0.1	0.1
	2	12	11	8.6	36- 1.82	120-35.82	3.73	1.1	6 172	5.0	0.02	0.3	0.4
	2	14	33	10.9	36- 0.26	120-33.25	5.96	1.1	8 188	5.0	0.01	0.2	0.1
	4	23	39	0.3	35-51.38	120-24.12	4.51	0.9	10 109	2.0	0.02	0.1	0.2
	8	16	49	56.0	35-54.28	120-18.76	11.78	1.2	12 220	6.0	0.07	0.5	0.7
	12	10	44	59.6	35-58.37	120-31.18	11.85	0.9	11 170	3.0	0.01	0.1	0.2
	12	12	6	40.7	35-58.76	120-32.05	3.30	0.8	8 169	4.0	0.01	0.1	0.2
	15	12	37	1.4	35-58.58	120-31.04	11.70	1.7	17 137	3.0	0.03	0.1	0.2
	16	4	18	3.0	36- 3.96	120-35.73	10.66	0.6	5 219	9.0	0.01	0.6	0.6
MAR	8	16	49	56.0	35-54.28	120-18.76	11.78	1.2	12 220	6.0	0.07	0.5	0.7
	12	10	44	59.6	35-58.37	120-31.18	11.85	0.9	11 170	3.0	0.01	0.1	0.2
	12	12	6	40.7	35-58.76	120-32.05	3.30	0.8	8 169	4.0	0.01	0.1	0.2
	15	12	37	1.4	35-58.58	120-31.04	11.70	1.7	17 137	3.0	0.03	0.1	0.2
	16	4	18	3.0	36- 3.96	120-35.73	10.66	0.6	5 219	9.0	0.01	0.6	0.6

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1985	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
MAR	16	23	19	32.9	36- 0.15	120-34.32	6.89	1.0	6	175	3.0	0.03	0.3	0.6
	17	18	55	56.6	36- 1.35	120-32.39	0.35	1.2	6	211	7.0	0.19	2.0	9.9
	18	12	8	3.8	35-58.31	120-31.22	6.33	0.7	8	178	3.0	0.01	0.2	0.2
	22	6	1	15.4	35-58.26	120-30.91	4.10	1.0	8	170	2.0	0.04	0.2	0.4
	22	6	1	39.9	35-58.27	120-30.84	4.19	1.3	11	187	2.0	0.03	0.2	0.3
	22	10	32	2.8	35-58.99	120-31.88	3.79	0.7	6	184	4.0	0.01	0.2	0.5
	23	15	50	55.4	35-58.91	120-31.96	3.64	1.2	10	173	4.0	0.02	0.1	0.3
	26	22	54	9.8	35-58.94	120-31.93	3.51	0.8	5	182	4.0	0.01	0.2	0.7
	27	12	54	30.2	35-59.90	120-33.29	4.61	1.8	13	133	4.0	0.03	0.2	0.2
	31	10	3	36.5	36- 4.60	120-34.10	5.00	1.5	4	265	14.0	0.01	0.4	1.8
APR	1	12	46	12.5	35-56.03	120-28.66	5.21	0.9	8	150	3.0	0.01	0.1	0.2
	1	12	50	37.9	35-56.00	120-28.63	5.41	0.7	6	219	3.0	0.02	0.2	0.3
	7	18	13	14.5	36- 1.20	120-33.14	10.75	1.5	11	119	6.0	0.03	0.1	0.3
	9	4	28	0.1	35-41.46	120-14.64	8.48	1.7	20	133	5.0	0.07	0.2	0.3
	9	13	32	3.3	35-41.47	120-14.23	8.87	1.9	19	150	5.0	0.06	0.3	0.2
	9	14	56	47.0	35-41.48	120-14.46	8.56	1.7	20	136	5.0	0.07	0.2	0.2
	11	16	53	38.3	35-55.68	120-28.32	5.07	1.0	10	149	3.0	0.02	0.1	0.1
	15	10	11	22.8	36- 2.26	120-35.14	5.49	1.5	12	181	6.0	0.03	0.2	0.2
	16	5	52	28.1	36- 0.60	120-34.41	6.02	0.8	6	180	4.0	0.03	0.3	0.6
	17	9	18	55.8	36- 0.54	120-33.15	6.81	1.1	9	151	5.0	0.02	0.2	0.3
	19	8	48	6.7	35-48.91	120-21.71	6.27	0.9	14	89	4.0	0.03	0.1	0.3
	21	22	45	32.8	36- 0.62	120-33.35	6.01	0.8	6	191	5.0	0.03	0.4	0.6
	22	23	18	34.3	36- 0.91	120-33.93	5.53	1.9	12	178	5.0	0.03	0.1	0.2
	23	1	27	54.1	35-52.72	120-16.88	9.01	0.7	10	224	2.0	0.07	0.9	0.6
	27	16	48	9.4	35-45.76	120-18.76	7.56	1.3	15	64	7.0	0.02	0.1	0.2
	27	19	30	34.3	35-45.75	120-18.75	7.41	1.2	16	64	7.0	0.02	0.1	0.2
	28	17	33	33.3	35-45.72	120-18.73	7.43	1.1	13	87	7.0	0.02	0.1	0.2
	28	18	42	35.5	35-45.74	120-18.68	7.46	0.6	13	86	7.0	0.02	0.1	0.3
	28	19	46	48.7	35-45.66	120-18.72	7.48	1.1	14	66	7.0	0.02	0.1	0.2
MAY	4	18	38	3.1	36- 1.80	120-34.85	5.45	2.1	16	132	5.0	0.04	0.1	0.2
	6	20	40	21.3	35-46.83	120-19.70	1.55	1.5	17	71	7.0	0.06	0.1	0.4
	7	0	1	52.0	35-52.82	120-25.08	9.41	1.2	14	107	0.	0.04	0.2	0.3
	18	15	6	45.1	35-57.43	120-29.98	11.84	1.6	12	125	0.	0.05	0.2	0.3
	21	13	24	20.3	35-47.65	120-20.69	8.77	2.9	16	71	7.0	0.03	0.1	0.2
	25	0	30	23.0	35-56.48	120-28.71	10.51	1.2	13	162	2.0	0.03	0.2	0.2
	25	4	19	38.7	35-56.44	120-28.79	10.24	3.0	18	98	2.0	0.04	0.2	0.2
	26	21	19	52.9	36- 0.10	120-32.98	4.36	1.5	12	178	5.0	0.02	0.1	0.4
	30	1	22	49.3	35-60.00	120-33.16	3.69	1.2	7	185	5.0	0.02	0.2	0.6
	30	12	21	56.9	35-59.96	120-33.24	3.94	1.5	11	164	5.0	0.03	0.2	0.6
JUN	1	11	50	37.9	35-53.38	120-25.75	10.40	1.1	12	143	2.0	0.03	0.2	0.2
	1	21	55	56.8	36- 0.41	120-33.31	5.89	1.1	6	189	7.0	0.02	0.3	0.2
	4	10	16	18.1	36- 0.32	120-33.30	4.72	1.3	8	188	7.0	0.02	0.2	0.6
	4	14	9	39.6	36- 0.30	120-33.23	4.89	2.0	16	88	7.0	0.02	0.1	0.2
	7	18	39	23.2	35-58.21	120-30.72	7.74	1.1	10	187	2.0	0.01	0.1	0.1
	8	1	45	59.4	35-58.10	120-30.79	7.85	1.7	9	143	4.0	0.01	0.1	0.2

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1985	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
JUN	10	15	10	53.4	36- 0.53	120-33.74	5.59	1.3	7	186	7.0	0.03	0.3	0.4
	12	15	55	7.7	35-57.56	120-32.27	10.43	1.1	9	138	4.0	0.09	0.9	0.7
	13	7	19	0.1	35-59.95	120-33.10	2.82	1.2	9	146	7.0	0.02	0.1	0.4
	25	18	58	15.2	36- 0.52	120-34.11	5.98	1.6	4	183	7.0	0.01	0.2	0.1
	26	16	22	15.7	36- 0.66	120-34.22	5.86	1.2	6	183	7.0	0.03	0.4	0.6
	30	3	6	47.9	35-33.10	120- 6.47	11.12	1.7	15	157	15.0	0.04	0.2	0.5
JUL	12	0	47	22.0	35-59.84	120-32.91	4.41	3.0	15	146	6.0	0.04	0.2	0.4
	12	0	51	29.0	35-59.96	120-32.70	2.90	1.6	8	189	6.0	0.01	0.1	0.3
	12	0	59	39.7	35-59.70	120-33.35	4.62	1.3	7	178	6.0	0.03	0.3	0.7
	12	4	59	14.8	35-59.83	120-33.32	3.52	1.4	10	141	6.0	0.04	0.2	2.9
	12	20	14	23.8	35-59.78	120-33.52	4.94	1.8	11	169	6.0	0.03	0.2	0.3
	12	22	0	3.3	35-59.53	120-32.53	4.76	1.3	7	185	6.0	0.01	0.1	0.4
	13	1	9	31.1	36- 0.02	120-33.15	3.49	1.8	12	146	7.0	0.02	0.1	2.6
	13	17	13	0.1	35-59.87	120-33.13	3.02	1.7	13	109	7.0	0.04	0.1	0.3
	14	19	33	47.0	35-59.79	120-33.52	6.26	1.2	7	177	6.0	0.05	0.3	0.7
	15	7	18	24.7	35-55.41	120-28.00	5.49	1.1	11	170	4.0	0.03	0.1	0.2
	15	10	57	41.8	35-44.47	120-17.93	11.84	0.	6	154	5.0	0.02	0.3	0.6
	17	17	18	58.6	35-59.61	120-33.14	1.81	1.4	11	178	6.0	0.12	0.4	0.7
	21	0	31	53.7	35-59.44	120-32.19	4.78	1.2	8	188	5.0	0.01	0.1	0.3
	21	0	32	5.0	35-59.28	120-32.38	5.54	0.9	6	182	5.0	0.01	0.2	0.5
	21	6	15	5.7	36- 0.04	120-33.15	3.73	1.3	8	185	5.0	0.02	0.1	0.5
	25	4	57	27.2	35-57.65	120-30.34	3.21	1.6	10	171	1.0	0.03	0.2	0.1
	29	19	22	33.8	35-55.75	120-28.23	4.77	1.0	10	173	3.0	0.02	0.2	0.1
AUG	5	13	18	38.4	35-59.06	120-32.10	3.22	1.1	7	182	5.0	0.01	0.1	0.3
	8	4	58	42.1	36- 0.08	120-33.07	5.15	2.0	14	101	5.0	0.02	0.1	0.1
	10	3	59	4.3	36- 0.48	120-33.74	5.24	1.3	10	144	4.0	0.03	0.2	0.3
	15	1	54	19.5	36- 1.09	120-34.26	5.61	1.4	10	144	5.0	0.03	0.3	0.2
	20	22	55	32.7	36- 0.07	120-33.08	3.73	1.2	7	187	5.0	0.01	0.1	0.6
	21	11	12	44.3	36- 0.68	120-33.35	5.81	1.0	8	193	5.0	0.02	0.3	0.2
	22	20	57	30.3	35-59.87	120-33.07	5.30	1.0	7	184	5.0	0.02	0.2	0.4
	24	0	32	49.9	35-59.97	120-32.99	2.99	1.3	10	147	5.0	0.02	0.1	0.2
	24	13	13	55.6	36- 0.37	120-33.10	5.46	0.9	7	208	5.0	0.02	0.3	0.5
	25	7	30	35.8	35-59.41	120-32.35	5.11	1.5	14	147	5.0	0.02	0.1	0.2
	25	21	6	29.6	36- 1.32	120-34.48	5.41	1.4	11	178	5.0	0.03	0.2	0.2
	30	20	4	42.0	36- 2.47	120-35.74	4.07	1.6	9	141	6.0	0.04	0.3	1.1
SEP	2	14	53	48.0	35-46.97	120-19.29	3.09	1.3	13	125	8.0	0.03	0.1	0.3
	11	6	56	40.8	35-51.33	120-22.43	6.55	0.3	4	276	3.0	0.	0.9	0.9
	14	0	12	46.8	36- 1.34	120-34.75	3.91	1.6	10	142	5.0	0.03	0.2	0.6
	17	13	43	6.7	36- 0.75	120-33.53	5.32	1.4	12	113	5.0	0.02	0.2	0.3
OCT	8	20	12	34.7	35-47.17	120-20.03	8.26	1.1	14	83	8.0	0.02	0.1	0.2
	9	1	22	50.4	36- 0.33	120-31.92	14.24	1.1	9	198	6.0	0.02	0.4	0.5
	16	11	39	8.5	35-51.73	120-24.34	3.91	1.1	11	109	2.0	0.03	0.1	0.2
	17	5	6	4.0	36- 1.11	120-34.37	5.80	1.4	10	177	5.0	0.03	0.2	0.1
	23	3	17	9.8	36- 0.03	120-33.57	5.02	1.0	7	244	4.0	0.02	0.5	0.8
NOV	1	2	5	60.0	36- 0.48	120-34.00	4.43	1.4	13	141	4.0	0.03	0.2	0.4

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

1985	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	
NOV	3	18	17	52.0	35-57.37	120-30.59	7.46	1.0	9	156	1.0	0.03	0.3	0.2
	4	22	53	4.6	35-47.74	120-20.79	9.08	1.6	16	72	7.0	0.03	0.1	0.2
	6	18	35	58.3	35-55.53	120-28.10	5.23	1.2	10	150	4.0	0.02	0.1	0.3
	11	20	56	18.2	35-57.10	120-29.35	11.30	1.2	13	169	1.0	0.04	0.3	0.2
	21	11	10	57.3	35-56.69	120-28.96	11.17	1.1	9	162	2.0	0.03	0.2	0.4
DEC	25	11	14	23.8	35-59.84	120-33.13	2.99	1.3	12	143	5.0	0.04	0.1	0.4
	27	15	29	24.1	35-59.89	120-33.41	4.21	1.2	8	180	4.0	0.02	0.2	0.5
	28	1	59	22.6	35-53.34	120-19.00	9.40	1.7	15	201	5.0	0.08	0.3	0.5
	7	6	51	15.1	35-25.44	119-59.35	10.44	1.8	11	92	3.0	0.05	0.2	0.3
	8	14	26	41.5	36- 1.10	120-34.40	5.54	1.4	10	177	4.0	0.03	0.3	0.2
	8	18	56	26.5	35-59.85	120-32.99	5.53	1.3	9	185	5.0	0.02	0.2	0.3
	10	7	13	27.9	35-59.65	120-32.86	5.72	0.9	8	182	5.0	0.02	0.2	0.2
	14	6	35	42.7	35-28.92	120- 1.37	9.17	1.7	13	160	8.0	0.03	0.1	0.3
	14	14	42	39.4	36- 0.04	120-32.99	5.08	1.7	11	148	5.0	0.02	0.1	0.3
	15	0	14	29.8	35-59.74	120-32.81	5.53	1.8	13	146	5.0	0.02	0.1	0.2
	15	6	7	57.6	35-59.73	120-32.85	5.50	1.5	14	134	5.0	0.03	0.1	0.2
	15	23	38	50.2	35-59.51	120-33.26	5.55	1.0	7	176	4.0	0.03	0.2	0.5
	16	1	57	56.5	36- 0.03	120-33.04	4.90	1.8	14	135	5.0	0.03	0.1	0.2
	16	7	46	43.5	35-59.65	120-33.11	4.97	1.1	9	180	5.0	0.03	0.2	0.3
	17	20	56	0.9	36- 0.47	120-33.99	3.79	1.6	12	131	4.0	0.04	0.2	0.7
JAN	22	4	59	14.7	35-58.85	120-32.00	3.38	0.9	9	178	4.0	0.02	0.1	0.2
	22	20	45	34.8	35-56.21	120-28.75	5.64	1.9	15	152	3.0	0.02	0.1	0.1
	22	21	57	30.6	35-56.26	120-28.71	5.64	0.9	8	174	3.0	0.02	0.2	0.3
	22	22	2	9.6	35-56.23	120-28.79	5.53	1.2	10	171	3.0	0.01	0.1	0.1
	22	22	23	6.9	35-58.84	120-32.04	3.28	1.0	9	178	4.0	0.02	0.2	0.2
	22	22	48	20.8	35-58.91	120-31.93	3.34	0.9	7	182	4.0	0.02	0.2	0.3
	22	22	48	45.5	35-58.90	120-31.90	4.03	1.0	7	182	4.0	0.02	0.2	0.6
	23	15	37	6.8	35-59.00	120-31.76	3.82	0.9	7	187	4.0	0.02	0.2	0.5
	24	19	2	56.4	36- 0.81	120-34.44	5.07	1.0	6	183	4.0	0.03	0.3	0.6
	30	4	54	45.3	35-26.50	119-59.26	12.69	3.1	17	131	3.0	0.04	0.1	0.2
	30	21	31	56.9	35-59.64	120-32.64	5.25	1.0	7	185	6.0	0.01	0.2	0.3
	2	8	25	21.0	35-56.91	120-29.68	5.69	1.2	12	132	1.0	0.03	0.2	0.1
	2	20	24	2.1	36- 0.25	120-33.30	6.17	1.0	7	187	5.0	0.02	0.3	0.4
	3	21	57	16.6	36- 0.31	120-33.21	5.90	0.9	6	189	5.0	0.03	0.3	0.2
	9	9	23	17.3	35-46.95	120-19.80	2.47	0.9	12	73	7.0	0.02	0.1	1.3
FEB	11	17	38	47.8	35-58.02	120-30.73	3.29	0.9	7	181	2.0	0.03	0.2	0.2
	11	18	26	42.6	35-58.24	120-31.26	5.99	0.9	8	203	3.0	0.03	0.3	0.2
	14	9	21	38.7	35-58.00	120-30.23	6.27	1.1	8	215	1.0	0.02	0.3	0.2
	22	13	41	43.7	36- 1.67	120-34.97	5.54	1.5	12	131	5.0	0.04	0.2	0.2
	24	18	39	55.5	36- 2.17	120-35.17	5.51	1.5	14	132	6.0	0.04	0.2	0.1
	28	7	10	4.3	35-58.20	120-30.74	11.42	2.2	16	111	2.0	0.02	0.1	0.2
	31	1	28	1.7	35-59.63	120-33.92	4.11	1.4	9	171	3.0	0.13	0.8	1.7
	31	20	51	58.7	36- 0.10	120-33.13	3.42	1.3	9	187	5.0	0.02	0.2	0.2
	1	3	46	51.5	35-58.12	120-30.83	11.34	1.4	14	162	2.0	0.03	0.2	0.2
	8	22	46	0.1	35-59.81	120-33.65	4.86	1.3	11	168	4.0	0.04	0.2	0.4

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1986	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
FEB	8	22	49	46.1	35-59.81	120-33.62	4.63	1.7	15	131	4.0	0.03	0.1	0.3
	9	8	7	10.0	35-59.98	120-33.21	4.00	1.3	14	164	5.0	0.03	0.1	0.3
	12	2	14	58.7	36- 1.20	120-34.91	6.26	1.3	15	139	4.0	0.05	0.2	0.3
	12	2	27	43.0	36- 1.38	120-34.67	5.47	1.1	9	177	5.0	0.03	0.2	0.2
	19	18	1	59.4	36- 0.76	120-33.86	5.37	1.5	9	189	5.0	0.04	0.3	0.3
MAR	24	1	44	26.0	36- 0.06	120-33.20	3.44	2.2	14	164	5.0	0.04	0.1	0.3
	26	16	6	57.1	36- 0.	120-33.21	5.28	1.5	13	175	5.0	0.02	0.1	0.1
	4	17	46	40.4	36- 1.73	120-34.56	5.50	2.5	17	85	5.0	0.04	0.1	0.2
	5	17	39	22.8	36- 1.68	120-34.39	5.39	1.7	13	110	5.0	0.06	0.2	0.3
	8	3	31	42.5	36- 0.55	120-33.84	5.56	1.4	10	144	4.0	0.03	0.2	0.2
	11	18	24	46.6	36- 0.05	120-33.72	5.61	1.3	7	180	4.0	0.04	0.3	0.2
	17	10	43	38.2	35-55.59	120-28.13	5.11	1.2	10	171	4.0	0.02	0.1	0.2
	18	15	12	58.0	35-56.03	120-28.48	5.19	1.0	10	174	3.0	0.02	0.1	0.1
	23	10	1	11.5	35-59.53	120-32.51	5.06	1.2	9	185	5.0	0.01	0.1	0.2
	27	0	44	6.1	36- 0.46	120-33.66	6.37	1.3	6	186	7.0	0.03	0.3	0.6
APR	2	5	55	43.0	35-58.36	120-30.72	11.36	2.0	14	155	2.0	0.02	0.2	0.1
	4	11	37	18.4	35-59.73	120-33.42	4.03	1.2	10	177	4.0	0.03	0.2	0.5
	6	19	59	54.6	35-57.71	120-30.27	5.69	1.2	7	206	1.0	0.01	0.2	0.2
	16	12	21	3.8	35-49.52	120-22.26	5.89	1.4	13	97	3.0	0.03	0.1	0.1
	17	11	27	42.3	35-45.47	120-19.36	6.56	0.8	10	136	6.0	0.02	0.1	0.3
	19	15	2	59.8	35-58.85	120-32.43	3.39	1.1	9	172	5.0	0.02	0.1	0.2
	19	19	10	36.9	35-58.90	120-32.31	4.52	1.7	14	161	5.0	0.04	0.1	0.2
	22	3	49	26.5	35-47.79	120-20.51	1.90	1.6	13	80	7.0	0.04	0.1	0.4
	22	7	21	7.0	35-47.75	120-20.29	3.44	1.3	10	132	8.0	0.03	0.1	3.2
	29	0	19	55.9	36- 0.63	120-33.67	3.48	1.1	5	188	7.0	0.04	0.4	4.1
MAY	4	18	2	42.3	35-59.11	120-32.07	2.32	1.0	8	183	5.0	0.01	0.1	0.2
	4	23	58	47.7	35-59.82	120-32.86	3.39	1.2	8	185	5.0	0.02	0.1	0.2
	10	8	3	1.9	36- 1.07	120-34.47	5.41	1.4	13	165	4.0	0.03	0.2	0.1
	12	9	56	37.5	36- 0.32	120-33.28	4.91	2.2	12	88	5.0	0.02	0.1	0.2
	13	1	14	10.3	35-59.07	120-32.13	2.84	0.9	7	182	5.0	0.02	0.2	0.5
	13	6	7	9.8	35-59.81	120-33.64	5.90	1.1	7	177	4.0	0.03	0.3	0.3
	14	23	47	36.1	35-29.93	120- 5.35	5.54	1.7	9	142	14.0	0.06	1.9	3.3
	16	15	33	49.7	36- 0.73	120-33.91	3.95	1.2	10	187	4.0	0.04	0.2	0.7
	17	13	3	5.3	35-59.81	120-32.50	4.84	1.3	5	190	6.0	0.01	0.2	0.3
	19	17	58	12.0	36- 0.77	120-34.11	5.20	0.	14	165	4.0	0.04	0.2	0.2
JUN	19	17	58	15.9	36- 0.37	120-34.81	4.47	1.3	9	160	9.0	0.07	0.6	0.7
	19	18	1	9.2	36- 0.65	120-34.02	5.26	2.0	12	174	4.0	0.02	0.1	0.2
	20	8	19	44.1	36- 0.24	120-33.15	4.97	2.0	11	135	5.0	0.02	0.1	0.2
	21	6	0	55.3	36- 0.31	120-33.20	5.55	0.9	6	189	5.0	0.01	0.2	0.3
	24	16	0	9.0	35-58.06	120-31.33	3.57	0.9	9	166	3.0	0.05	0.3	0.6
	6	22	21	53.2	35-58.51	120-31.03	7.50	1.3	12	172	3.0	0.01	0.2	0.1
	7	2	59	54.6	35-59.45	120-32.39	4.74	1.0	9	185	5.0	0.01	0.2	0.3
	8	16	43	37.5	35-58.55	120-31.02	7.46	1.2	10	189	3.0	0.01	0.1	0.1
	9	18	54	57.0	36- 0.43	120-34.00	4.14	1.3	10	183	4.0	0.04	0.3	0.6
	10	6	12	26.5	36- 1.25	120-34.53	5.61	1.6	14	143	5.0	0.03	0.2	0.1

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1986	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
JUN	10	20	10	31.4	35-59.15	120-32.18	3.01	1.7	13	163	5.0	0.04	0.2	0.3
	10	20	10	49.5	35-59.13	120-32.14	2.44	0.	7	183	5.0	0.01	0.1	1.6
	11	10	7	12.6	35-55.75	120-28.37	5.07	1.2	11	149	3.0	0.02	0.1	0.2
	20	21	34	31.1	36- 0.98	120-34.33	5.45	1.6	13	165	4.0	0.03	0.2	0.1
	20	22	35	6.5	36- 1.14	120-34.23	5.40	1.0	8	189	5.0	0.02	0.2	0.2
JUL	21	3	1	13.9	35-58.76	120-32.00	3.29	1.1	7	177	4.0	0.01	0.1	0.2
	23	21	21	58.2	36- 0.40	120-33.31	5.68	1.1	9	189	5.0	0.03	0.3	0.2
	25	21	48	16.3	35-48.13	120-20.54	4.07	0.9	13	79	6.0	0.02	0.1	0.5
	11	7	36	27.4	35-59.97	120-32.97	4.76	1.0	7	186	5.0	0.01	0.2	0.4
	13	2	52	40.3	36- 1.01	120-33.96	5.04	1.2	6	274	5.0	0.02	1.2	1.8
	13	9	46	16.0	35-56.30	120-28.77	5.66	1.2	11	154	3.0	0.02	0.1	0.1
	20	23	47	10.1	36- 1.20	120-34.18	5.49	1.4	12	133	5.0	0.03	0.2	0.1
	27	7	1	16.8	35-53.51	120-25.80	10.46	1.3	13	161	2.0	0.03	0.1	0.2
	30	10	58	12.3	36- 1.85	120-35.08	5.69	0.7	8	178	5.0	0.02	0.3	0.2
	31	7	13	29.5	36- 3.12	120-35.79	6.72	0.6	8	199	7.0	0.02	0.3	0.4
AUG	3	22	6	22.2	36- 0.90	120-34.04	5.60	1.4	12	109	5.0	0.03	0.2	0.1
	4	17	22	3.3	35-57.59	120-30.04	9.09	1.6	14	162	1.0	0.02	0.1	0.1
	11	21	5	46.5	36- 0.87	120-33.92	5.55	1.3	8	189	5.0	0.02	0.2	0.2
	12	22	33	2.7	36- 2.32	120-35.13	5.65	1.2	12	145	6.0	0.04	0.2	0.2
	29	6	44	42.1	35-54.01	120-26.48	6.32	3.3	19	95	3.0	0.05	0.2	0.3
SEP	1	19	5	23.2	36- 1.37	120-34.31	5.37	2.0	17	85	5.0	0.03	0.1	0.2
	1	19	43	2.3	35-49.06	120-21.96	7.74	2.7	15	90	4.0	0.03	0.1	0.3
	3	22	10	22.1	35-55.79	120-28.45	5.40	1.2	13	149	3.0	0.02	0.1	0.1
	4	13	48	3.7	36- 0.74	120-34.12	4.62	1.0	7	186	4.0	0.03	0.3	0.6
	9	16	35	56.1	35-55.76	120-28.36	5.32	1.4	13	150	3.0	0.02	0.1	0.1
	10	17	44	19.9	36- 1.88	120-34.69	5.29	1.9	16	102	6.0	0.04	0.1	0.2
	10	18	2	35.6	36- 1.54	120-35.04	5.50	1.7	11	165	5.0	0.04	0.3	0.2
	14	4	47	38.5	36- 1.25	120-34.28	5.31	1.8	16	97	5.0	0.04	0.1	0.3
	15	5	38	0.6	35-52.53	120-24.74	4.90	0.8	9	107	1.0	0.06	0.3	0.4
	16	7	5	10.8	36- 0.45	120-34.27	6.27	1.4	12	139	4.0	0.04	0.3	0.3
OCT	21	3	13	27.3	35-55.36	120-27.70	6.74	1.2	7	197	4.0	0.02	0.2	0.3
	21	5	21	26.3	35-46.38	120-19.22	7.95	0.9	13	114	8.0	0.01	0.1	0.3
	21	6	11	46.0	35-46.38	120-19.36	7.51	0.7	14	67	7.0	0.01	0.1	0.2
	22	13	7	33.2	36- 1.16	120-34.38	5.58	1.4	13	144	5.0	0.04	0.2	0.2
	2	8	5	37.4	36- 0.04	120-33.23	3.66	1.1	9	187	5.0	0.03	0.2	0.8
	9	7	37	35.8	35-53.00	120-25.84	10.72	1.2	10	137	5.0	0.07	0.4	0.5
	10	7	13	7.5	36- 0.02	120-31.36	13.40	1.4	14	105	5.0	0.03	0.2	0.3
	23	4	4	23.0	35-44.84	120-17.74	10.18	0.8	15	67	5.0	0.04	0.2	0.4
	24	13	53	12.0	35-44.82	120-17.51	10.41	0.7	12	69	4.0	0.03	0.1	0.3
	25	14	31	59.8	35-44.82	120-17.61	10.27	1.0	15	67	4.0	0.03	0.1	0.3
NOV	3	17	9	57.7	35-44.67	120-17.42	9.76	0.8	13	70	4.0	0.02	0.1	0.3
	5	8	0	0.8	35-26.14	120- 6.92	7.05	1.9	19	136	26.0	0.04	0.1	0.3
	8	18	23	7.2	35-55.73	120-28.28	4.91	1.2	11	151	3.0	0.03	0.1	0.3
	9	4	47	53.9	35-44.67	120-17.46	9.69	1.1	17	67	4.0	0.03	0.1	0.3
	9	5	22	51.5	35-44.67	120-17.46	9.53	0.9	17	67	4.0	0.04	0.2	0.3

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1986	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
NOV	19	0	30	19.4	35-55.73	120-28.33	4.91	1.7	15	150	3.0	0.03	0.1	0.1
	29	16	40	47.4	35-55.44	120-28.01	5.46	1.2	13	150	4.0	0.02	0.1	0.1
	30	7	33	1.3	35-55.35	120-27.90	5.25	1.2	9	150	4.0	0.02	0.1	0.3
	30	15	49	28.8	35-55.42	120-27.99	5.57	1.2	9	150	4.0	0.02	0.1	0.3
DEC	1	1	4	13.4	35-45.81	120-18.34	4.40	0.8	13	84	6.0	0.05	0.1	0.6
	2	11	28	6.8	35-44.56	120-17.84	11.92	1.8	17	70	5.0	0.03	0.2	0.3
	5	12	23	17.9	36- 0.63	120-33.32	5.99	0.8	5	208	5.0	0.01	0.5	0.4
	12	7	1	16.3	35-58.18	120-30.62	11.93	1.1	7	216	5.0	0.01	0.4	0.3
	16	2	45	31.4	35-58.91	120-31.93	3.73	0.9	7	181	4.0	0.01	0.1	0.4
	19	6	39	24.6	35-52.31	120-24.85	4.20	0.9	14	94	1.0	0.05	0.2	0.3
	23	21	33	35.0	35-55.52	120-28.07	5.24	1.2	13	150	4.0	0.02	0.1	0.2
	24	20	33	30.0	35-59.87	120-32.51	14.67	1.1	7	190	6.0	0.01	0.4	0.3
	24	22	19	33.4	35-55.50	120-28.04	5.28	1.5	14	150	4.0	0.02	0.1	0.1
	24	22	30	16.2	35-55.52	120-28.07	5.18	1.4	14	150	4.0	0.02	0.1	0.1
	27	19	33	31.6	36- 1.65	120-34.54	11.89	1.1	7	193	5.0	0.02	0.5	0.5
	29	8	28	6.6	36- 0.01	120-32.99	3.11	1.3	10	187	5.0	0.03	0.1	0.4
	31	4	0	49.1	35-58.60	120-31.10	11.44	1.3	14	164	3.0	0.02	0.3	0.2
	31	14	3	45.5	35-51.16	120-23.77	3.89	0.3	8	111	4.0	0.01	0.1	0.3
JAN	1	0	50	54.3	35-59.60	120-32.80	4.98	1.0	7	182	5.0	0.01	0.2	0.4
	1	12	29	53.0	35-57.57	120-29.37	14.92	1.4	11	171	1.0	0.03	0.2	0.2
	1	17	8	24.9	35-59.54	120-33.03	5.00	1.0	7	178	5.0	0.02	0.2	0.5
	2	1	47	13.0	35-56.98	120-29.07	13.51	1.4	14	162	1.0	0.04	0.2	0.2
	6	15	4	24.0	36- 0.07	120-33.06	3.10	0.	10	177	5.0	0.02	0.1	0.3
	7	0	42	34.0	35-60.00	120-33.39	3.25	1.3	13	163	7.0	0.06	0.2	0.4
	11	16	37	33.8	35-32.72	120- 6.38	8.40	1.6	6	169	15.0	0.03	0.3	0.6
	22	19	9	20.1	36- 0.63	120-33.55	5.05	1.7	13	177	5.0	0.04	0.2	0.2
	23	2	19	25.0	36- 0.58	120-33.79	5.53	1.4	11	186	4.0	0.03	0.2	0.2
	27	6	28	13.8	35-59.03	120-32.17	2.98	0.9	7	180	5.0	0.01	0.1	0.3
	29	3	50	20.7	35-58.84	120-31.94	3.52	0.9	7	180	4.0	0.01	0.1	0.5
FEB	1	11	25	33.0	35-57.79	120-30.33	5.38	1.9	17	136	1.0	0.03	0.1	0.1
	1	11	43	32.2	35-57.75	120-30.27	5.37	1.3	13	169	1.0	0.02	0.1	0.1
	2	4	45	1.0	35-55.69	120-28.20	9.84	2.5	19	97	3.0	0.06	0.2	0.3
	2	9	9	36.5	36- 0.01	120-32.86	2.56	1.2	11	175	5.0	0.04	0.2	0.6
	3	12	52	27.5	36- 1.16	120-34.34	5.60	1.4	14	166	5.0	0.03	0.2	0.1
	3	14	49	33.4	35-55.74	120-27.97	10.07	1.7	17	157	4.0	0.04	0.1	0.2
	5	2	46	23.0	35-58.24	120-30.96	3.81	0.9	9	170	2.0	0.03	0.2	0.3
	6	22	5	0.7	36- 0.80	120-33.59	4.84	0.8	6	206	5.0	0.02	0.3	0.6
	9	23	30	36.2	36- 0.08	120-33.66	5.41	1.1	12	172	4.0	0.03	0.2	0.2
	11	6	14	24.2	35-51.41	120-23.86	3.60	1.1	11	116	2.0	0.03	0.1	0.2
	13	16	12	8.9	35-56.06	120-28.62	5.28	0.9	9	171	3.0	0.02	0.1	0.2
	14	16	38	28.7	36- 0.38	120-34.03	5.83	1.2	9	181	4.0	0.04	0.3	0.2
	15	8	56	4.4	35-47.31	120-20.41	9.71	1.6	16	67	7.0	0.02	0.1	0.3
	15	15	17	4.9	36- 0.88	120-33.83	5.11	1.8	12	134	5.0	0.01	0.1	0.1
	20	20	33	38.2	35-51.25	120-23.81	3.69	1.4	14	112	2.0	0.04	0.1	0.2
	21	4	49	26.3	35-57.96	120-31.24	8.39	0.	5	189	2.0	0.03	0.6	2.5

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1987	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
FEB	21	4	50	4.7	35-58.26	120-31.11	6.58	0.	7	180	3.0	0.01	0.2	0.3
	21	19	58	47.8	35-52.95	120-25.29	9.66	1.6	16	135	1.0	0.03	0.2	0.2
MAR	4	1	39	12.4	35-59.29	120-32.13	5.11	1.0	8	186	5.0	0.01	0.2	0.3
	14	14	17	0.3	35-58.37	120-30.72	11.60	1.6	14	164	2.0	0.03	0.2	0.2
	22	19	2	28.8	36- 0.03	120-33.20	4.05	1.3	12	176	5.0	0.02	0.2	0.3
	22	19	44	22.8	36- 0.01	120-33.11	3.14	1.6	11	173	5.0	0.03	0.1	0.3
	27	13	3	0.5	35-58.39	120-30.92	11.39	1.4	15	137	2.0	0.03	0.2	0.2
	28	0	18	24.0	36- 0.37	120-33.56	6.83	1.0	8	186	4.0	0.04	0.4	0.5
APR	6	15	51	25.4	35-53.60	120-25.86	10.20	1.2	15	146	2.0	0.03	0.2	0.2
	12	14	7	12.6	35-58.39	120-31.29	6.46	1.0	8	180	3.0	0.01	0.1	0.1
	13	6	59	9.6	36- 0.14	120-33.14	4.97	2.2	17	89	5.0	0.03	0.1	0.2
	13	15	54	54.1	36- 1.31	120-34.51	5.50	1.3	9	178	5.0	0.03	0.3	0.2
	13	18	25	5.5	35-59.91	120-33.25	5.06	1.3	11	173	7.0	0.04	0.3	0.4
	20	12	37	25.4	35-47.72	120-20.81	9.07	0.9	14	83	7.0	0.02	0.1	0.2
	20	21	46	59.7	35-56.02	120-28.27	10.19	1.3	15	158	3.0	0.05	0.3	0.2
	21	13	48	27.7	35-47.46	120-20.45	8.63	0.9	14	80	7.0	0.02	0.1	0.2
	22	12	41	52.3	36- 1.31	120-34.33	5.31	1.4	9	179	5.0	0.03	0.3	0.5
	26	0	8	19.8	35-55.13	120-27.62	6.59	1.2	12	150	4.0	0.03	0.2	0.3
	28	19	16	55.9	35-58.35	120-30.69	11.76	2.1	18	95	2.0	0.04	0.2	0.2
MAY	3	18	28	4.0	36- 0.07	120-33.10	4.91	1.9	15	89	5.0	0.03	0.1	0.2
	4	3	10	3.7	36- 0.06	120-32.98	4.85	1.6	13	165	5.0	0.04	0.2	0.3
	7	3	10	2.1	35-55.80	120-28.42	4.92	1.2	14	149	3.0	0.02	0.1	0.1
	9	17	8	13.9	35-55.86	120-28.42	5.46	2.0	15	151	3.0	0.02	0.1	0.1
	12	11	3	0.5	35-57.52	120-30.31	9.06	1.2	12	157	1.0	0.02	0.2	0.1
	16	4	42	14.3	36- 0.10	120-33.07	3.25	1.1	11	178	5.0	0.03	0.1	0.2
	19	0	18	51.3	35-56.64	120-28.97	14.02	1.3	12	160	2.0	0.05	0.4	0.5
	22	19	26	27.1	35-59.98	120-32.99	3.01	1.3	10	186	5.0	0.02	0.1	0.2
	25	19	5	25.5	35-58.78	120-32.00	3.23	0.9	7	177	4.0	0.01	0.1	0.2
	30	13	58	9.3	35-59.97	120-33.38	4.20	1.7	14	163	4.0	0.05	0.2	0.5
	30	13	59	47.8	35-59.78	120-33.52	4.58	1.7	14	162	4.0	0.03	0.2	0.3
	31	14	51	54.0	36- 0.54	120-33.14	6.71	1.0	10	192	5.0	0.01	0.2	0.2
	31	16	3	41.3	35-59.48	120-32.49	5.13	1.6	11	185	6.0	0.02	0.1	0.2
JUN	2	22	0	15.0	35-59.98	120-33.16	3.97	1.6	14	164	5.0	0.04	0.2	0.4
	4	17	45	14.8	35-50.72	120-23.65	0.68	0.8	6	105	4.0	0.05	0.3	0.4
	8	22	10	11.4	36- 0.30	120-33.42	5.91	1.2	9	187	5.0	0.03	0.3	0.1
	9	0	29	12.5	36- 0.47	120-33.37	4.70	1.2	10	190	5.0	0.01	0.1	0.3
	11	15	50	48.4	35-59.51	120-32.75	5.76	1.1	6	181	5.0	0.01	0.2	0.3
	15	9	19	47.4	36- 2.44	120-35.37	5.39	1.4	17	132	6.0	0.02	0.1	0.1
	15	10	5	30.0	36- 0.54	120-33.91	5.35	1.1	10	175	4.0	0.04	0.3	0.4
	16	18	46	14.1	35-57.72	120-30.58	3.03	1.2	8	167	1.0	0.02	0.2	0.2
	18	1	42	58.2	35-57.54	120-30.61	2.92	1.3	11	151	1.0	0.05	0.2	0.3
	23	18	21	16.7	35-46.27	120-19.17	7.55	0.7	14	80	7.0	0.01	0.1	0.2
	23	19	33	57.7	35-59.92	120-32.87	5.21	1.3	11	177	5.0	0.02	0.1	0.2
	28	3	49	16.3	35-59.98	120-33.72	5.81	1.1	11	170	4.0	0.04	0.3	0.2
JUL	2	22	0	58.8	35-59.98	120-33.27	5.29	1.4	14	164	5.0	0.02	0.1	0.1

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1987	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
JUL	6	9	6	5.7	36- 1.02	120-33.91	5.30	1.3	10	191	5.0	0.02	0.2	0.2
	8	22	7	12.1	35-50.60	120-22.93	3.32	1.3	12	113	2.0	0.03	0.1	0.1
	9	21	22	25.0	35-50.67	120-22.91	3.26	2.2	15	114	2.0	0.06	0.2	0.2
	10	5	4	45.4	35-53.72	120-26.00	10.27	1.2	14	146	2.0	0.03	0.2	0.2
	18	12	18	18.2	36- 1.35	120-33.93	5.08	1.4	7	208	5.0	0.01	0.3	0.5
AUG	18	18	30	17.8	35-55.56	120-28.26	5.19	1.6	15	147	3.0	0.02	0.1	0.1
	22	3	25	31.5	36- 0.82	120-34.47	4.79	1.0	7	183	4.0	0.02	0.3	0.5
	31	6	1	23.9	36- 1.03	120-32.52	9.71	1.1	8	204	6.0	0.02	0.4	0.3
	7	4	25	56.1	35-56.74	120-28.77	10.48	2.2	16	138	2.0	0.05	0.2	0.2
	15	16	4	52.7	35-31.64	120- 4.19	12.21	2.5	16	209	19.0	0.03	0.2	0.3
SEP	15	16	24	2.5	35-31.51	120- 4.41	12.29	1.9	16	159	14.0	0.02	0.1	0.3
	15	17	52	55.4	35-31.53	120- 4.27	12.36	2.4	19	161	14.0	0.02	0.1	0.2
	15	17	54	4.9	35-31.45	120- 4.42	11.62	2.0	16	208	19.0	0.03	0.2	0.6
	15	18	29	39.4	35-31.52	120- 4.36	12.12	2.0	17	159	14.0	0.03	0.1	0.3
	16	22	10	12.4	35-31.61	120- 4.40	12.30	1.5	10	168	14.0	0.02	0.1	0.2
OCT	28	20	39	11.6	35-58.70	120-31.11	11.13	2.0	14	137	3.0	0.02	0.1	0.1
	2	7	47	55.9	36- 1.33	120-34.37	5.36	1.2	8	191	5.0	0.02	0.3	0.4
	2	7	49	8.6	36- 1.23	120-34.55	5.62	1.4	9	188	5.0	0.03	0.2	0.2
	6	4	37	15.3	35-58.85	120-31.83	4.32	1.2	10	182	4.0	0.02	0.2	0.2
	8	10	31	43.9	35-53.47	120-25.85	10.85	1.2	14	144	5.0	0.04	0.2	0.3
NOV	10	4	40	19.6	35-59.42	120-32.39	4.92	1.0	8	185	5.0	0.01	0.2	0.3
	10	11	6	30.7	36- 1.01	120-34.44	5.70	1.0	10	186	4.0	0.04	0.3	0.2
	18	10	50	28.2	35-55.43	120-28.00	5.48	1.2	14	150	4.0	0.03	0.1	0.1
	18	10	50	40.3	35-55.38	120-28.03	5.33	1.5	13	149	4.0	0.03	0.1	0.1
	18	10	55	5.1	35-55.46	120-28.03	5.45	1.7	15	150	4.0	0.02	0.1	0.1
DEC	18	10	56	17.5	35-55.45	120-28.06	5.50	1.3	12	149	4.0	0.02	0.1	0.1
	18	10	57	34.7	35-55.45	120-28.01	5.45	1.4	14	150	4.0	0.02	0.1	0.1
	19	0	2	31.4	35-55.44	120-28.03	5.50	2.0	15	149	4.0	0.02	0.1	0.1
	19	2	35	25.6	35-55.41	120-28.04	5.46	1.2	9	149	4.0	0.02	0.1	0.3
	19	3	47	57.3	35-55.54	120-28.13	5.08	1.2	10	149	4.0	0.02	0.1	0.2
JAN	19	4	3	12.9	35-55.45	120-28.49	4.73	0.	8	173	3.0	0.03	0.2	0.3
	20	11	48	2.4	35-48.01	120-20.30	3.15	0.	10	85	7.0	0.03	0.1	0.3
	20	21	51	7.8	35-55.36	120-28.16	5.55	1.2	9	179	4.0	0.02	0.2	0.2
	20	23	17	48.3	35-58.31	120-31.80	11.31	1.1	10	195	3.0	0.04	0.3	0.3
	21	10	46	25.5	35-55.58	120-28.17	5.02	1.2	11	150	4.0	0.02	0.1	0.1
FEB	22	0	31	3.1	35-57.96	120-30.53	7.33	1.6	17	162	2.0	0.01	0.1	0.1
	22	7	28	13.9	36- 3.47	120-36.41	6.31	1.1	7	209	8.0	0.01	0.2	0.3
	22	16	54	44.9	36- 2.17	120-35.23	5.64	1.2	10	180	6.0	0.03	0.3	0.2
	25	11	46	53.4	35-55.66	120-28.32	5.04	1.2	10	149	3.0	0.02	0.1	0.1
	25	21	0	7.4	36- 4.58	120-36.53	5.99	0.6	5	221	10.0	0.01	0.5	0.2
MAR	26	17	43	50.7	35-55.74	120-28.41	4.78	1.1	14	149	3.0	0.02	0.1	0.1
	26	17	44	19.8	35-55.76	120-28.42	4.72	1.4	12	149	3.0	0.05	0.2	0.3
	28	4	46	47.9	35-55.83	120-28.47	5.33	1.1	10	149	3.0	0.02	0.2	0.1
	29	11	48	20.6	35-44.80	120-17.34	5.26	1.4	14	66	4.0	0.03	0.1	0.2
	1	23	23	49.7	36- 0.45	120-33.54	6.64	1.0	7	187	5.0	0.03	0.4	0.5

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

	1987	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
OCT	3	21	4	38.3	36- 0.74	120-33.67	4.97	1.3	7	190	5.0	0.01	0.3	0.5
	7	2	21	9.3	35-57.85	120-30.15	10.86	1.4	13	170	1.0	0.02	0.1	0.1
	9	22	28	39.4	35-47.35	120-19.91	3.20	0.7	7	98	8.0	0.01	0.1	0.3
	13	0	44	25.5	35-26.98	120- 0.28	10.96	1.2	11	138	4.0	0.04	0.1	0.2
	20	3	33	57.5	35-53.10	120-25.72	6.14	1.1	10	139	5.0	0.05	0.2	0.5
NOV	20	22	56	22.6	35-58.56	120-31.31	11.81	1.1	7	215	3.0	0.03	0.7	0.7
	22	16	9	29.6	35-53.08	120-25.44	10.81	1.2	13	141	5.0	0.03	0.2	0.3
	7	6	49	51.9	35-31.62	120- 5.17	10.31	0.6	8	280	18.0	0.02	0.9	0.5
	12	23	11	46.6	36- 2.54	120-35.33	5.60	1.0	10	182	6.0	0.03	0.3	0.2
	16	18	55	31.8	36- 2.16	120-34.93	5.47	1.4	14	133	6.0	0.03	0.2	0.2
	17	4	11	58.4	35-58.87	120-31.24	11.61	1.8	19	94	3.0	0.03	0.1	0.1
	19	20	5	48.4	36- 0.90	120-33.75	4.34	1.1	4	285	5.0	0.01	1.0	1.6
	20	0	36	34.6	35-59.83	120-33.32	4.32	1.3	8	180	4.0	0.02	0.2	0.4
	21	14	21	28.0	35-59.81	120-33.21	3.57	1.7	18	133	5.0	0.04	0.1	0.5
	22	0	41	16.7	36- 2.08	120-35.61	3.56	1.7	16	129	6.0	0.04	0.1	0.8
DEC	23	12	14	53.5	36- 0.37	120-33.48	5.01	2.4	18	134	5.0	0.03	0.1	0.1
	29	13	33	9.4	36- 1.35	120-34.21	5.25	2.2	18	86	5.0	0.04	0.1	0.2
	30	2	25	23.0	36- 0.15	120-32.50	12.03	1.1	10	185	6.0	0.02	0.3	0.2
	1	7	2	39.9	36- 1.13	120-34.33	5.35	1.4	12	133	5.0	0.03	0.1	0.2
	6	6	18	1.4	35-55.80	120-28.45	4.63	1.5	11	149	3.0	0.02	0.1	0.2
	6	19	20	58.7	36- 1.10	120-34.70	5.94	1.0	6	185	4.0	0.03	0.5	0.4
	20	20	9	19.5	35-59.73	120-32.71	4.27	1.3	10	177	5.0	0.01	0.1	0.3
	24	7	44	30.7	35-41.71	120-15.41	7.18	0.8	12	127	4.0	0.11	0.3	0.8
	26	8	46	29.1	35-41.55	120-15.14	7.77	0.9	15	130	4.0	0.10	0.4	0.5
	1	11	56	54.0	36- 3.95	120-36.41	7.04	1.1	6	214	9.0	0.01	0.3	0.4
JAN	5	9	55	27.9	36- 1.16	120-34.38	5.28	1.5	11	166	5.0	0.03	0.1	0.1
	6	7	3	36.8	35-57.97	120-31.14	11.19	1.1	11	167	2.0	0.03	0.2	0.2
	7	9	58	20.6	36- 2.20	120-35.39	5.55	1.3	10	178	6.0	0.04	0.2	0.3
	10	14	29	59.8	35-59.52	120-32.54	4.97	1.2	9	185	5.0	0.01	0.1	0.2
	25	9	57	43.0	36- 4.07	120-36.55	7.43	1.7	13	130	9.0	0.04	0.2	0.5
	26	16	33	40.3	35-58.22	120-30.96	4.18	1.1	8	182	2.0	0.02	0.2	0.3
	29	7	25	49.3	35-58.25	120-30.88	4.00	1.2	7	185	2.0	0.02	0.2	0.3
	4	11	32	26.2	35-59.05	120-32.14	2.89	1.0	8	173	5.0	0.02	0.1	0.3
	7	7	51	55.4	36- 2.12	120-35.39	4.20	0.6	7	197	6.0	0.01	0.3	0.5
	13	11	4	12.9	36- 0.55	120-33.98	5.15	1.1	6	262	4.0	0.02	0.9	0.9
FEB	20	8	57	26.5	36- 0.01	120-33.74	5.53	1.0	9	170	4.0	0.04	0.3	0.3
	23	9	12	36.9	36- 2.48	120-35.66	4.10	1.2	10	142	6.0	0.03	0.1	0.6
	23	16	20	36.5	36- 2.65	120-35.36	3.51	1.7	4	197	7.0	0.03	0.5	3.3
	28	6	7	10.2	35-58.19	120-30.57	11.37	1.0	13	138	2.0	0.02	0.2	0.1
	1	4	9	18.2	35-59.67	120-32.75	4.40	1.1	7	185	5.0	0.01	0.1	0.4
	2	0	19	50.5	35-59.64	120-32.92	5.53	1.3	11	172	5.0	0.02	0.1	0.2
	2	1	46	38.8	35-59.62	120-32.85	5.83	1.1	6	182	5.0	0.02	0.2	0.3
	2	22	31	34.3	35-58.52	120-31.33	4.34	1.4	13	135	3.0	0.02	0.1	0.2
	2	22	52	30.3	35-59.77	120-32.75	5.18	1.6	15	135	5.0	0.02	0.1	0.1
	8	7	56	13.4	35-58.52	120-31.25	4.11	0.9	9	171	3.0	0.02	0.2	0.2
MAR	2	0	19	50.5	35-59.64	120-32.92	5.53	1.3	11	172	5.0	0.02	0.1	0.2
	2	1	46	38.8	35-59.62	120-32.85	5.83	1.1	6	182	5.0	0.02	0.2	0.3
	2	22	31	34.3	35-58.52	120-31.33	4.34	1.4	13	135	3.0	0.02	0.1	0.2
	2	22	52	30.3	35-59.77	120-32.75	5.18	1.6	15	135	5.0	0.02	0.1	0.1
	8	7	56	13.4	35-58.52	120-31.25	4.11	0.9	9	171	3.0	0.02	0.2	0.2
	2	0	19	50.5	35-59.64	120-32.92	5.53	1.3	11	172	5.0	0.02	0.1	0.2
	2	1	46	38.8	35-59.62	120-32.85	5.83	1.1	6	182	5.0	0.02	0.2	0.3
	2	22	31	34.3	35-58.52	120-31.33	4.34	1.4	13	135	3.0	0.02	0.1	0.2
	2	22	52	30.3	35-59.77	120-32.75	5.18	1.6	15	135	5.0	0.02	0.1	0.1
	8	7	56	13.4	35-58.52	120-31.25	4.11	0.9	9	171	3.0	0.02	0.2	0.2

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

1988	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ
MAR	11	16	53	3.7	36- 0.75	120-34.05	5.16	1.0	6 186	4.0	0.02	0.3	0.6
	16	16	57	14.0	36- 0.79	120-34.03	5.37	1.3	12 177	4.0	0.03	0.2	0.2
	23	7	49	48.3	36- 0.06	120-33.65	5.62	1.2	8 180	4.0	0.03	0.2	0.3
	25	12	35	54.5	36- 0.44	120-33.99	4.12	1.6	12 141	4.0	0.04	0.2	0.4
	26	22	40	52.7	36- 3.94	120-35.54	10.79	1.2	9 211	9.0	0.03	0.5	0.4
APR	30	15	34	15.6	35-52.95	120-25.55	10.77	1.1	14 139	5.0	0.04	0.2	0.3
	31	8	47	33.0	35-56.55	120-28.57	11.17	1.7	19 161	2.0	0.04	0.2	0.2
	1	21	39	34.9	35-59.56	120-32.70	5.49	1.1	7 183	5.0	0.02	0.2	0.4
	14	6	37	48.5	35-58.45	120-31.43	6.20	1.1	8 178	3.0	0.01	0.2	0.2
	14	13	50	13.5	35-55.50	120-28.10	5.26	1.4	12 149	4.0	0.02	0.1	0.2
MAY	17	10	4	59.8	35-54.75	120-20.39	11.76	0.8	12 208	8.0	0.05	0.4	0.6
	23	16	33	13.9	36- 0.29	120-33.17	4.12	1.0	8 189	5.0	0.02	0.2	0.6
	23	16	33	23.0	36- 0.25	120-33.24	4.73	0.	4 268	5.0	0.01	0.6	1.8
	28	11	50	21.9	36- 0.93	120-33.32	4.28	0.9	4 211	5.0	0.01	0.7	1.2
	1	6	10	16.3	35-59.90	120-33.40	4.52	1.1	7 181	4.0	0.03	0.3	0.6
	3	3	48	55.7	36- 4.20	120-37.07	7.04	0.6	5 212	10.0	0.02	0.7	0.8
	3	13	40	36.5	36- 5.31	120-37.94	4.34	0.6	4 151	8.0	0.01	0.3	1.6
	3	23	16	37.5	35-55.68	120-28.30	5.42	1.3	12 150	3.0	0.02	0.1	0.1
	4	0	28	32.5	35-58.85	120-32.02	3.98	1.4	15 134	4.0	0.03	0.1	0.3
	4	2	32	45.2	35-55.47	120-28.66	5.77	0.	4 241	3.0	0.01	0.4	0.2
	10	17	25	8.4	36- 1.85	120-36.84	5.96	0.	4 215	5.0	0.	0.9	0.3
	17	0	57	23.9	35-58.15	120-30.85	6.89	0.	5 242	5.0	0.	0.3	0.4
	19	0	22	48.3	36- 2.38	120-34.95	5.18	0.7	5 209	6.0	0.01	0.4	0.6
	19	13	49	8.8	35-57.63	120-30.65	3.73	0.	5 180	1.0	0.	0.5	0.8
	19	18	28	48.9	35-56.03	120-28.76	5.10	1.2	9 147	3.0	0.02	0.2	0.2
	21	3	47	41.4	36- 2.09	120-38.76	4.81	0.	4 183	7.0	0.	1.0	0.9
	23	9	51	23.3	35-58.18	120-30.67	11.36	1.7	18 137	2.0	0.02	0.1	0.1
	24	19	1	40.5	35-59.68	120-32.76	4.30	1.1	5 206	5.0	0.01	0.3	0.7
	26	17	52	17.2	36- 4.96	120-41.12	4.77	0.4	4 193	4.0	0.01	1.0	1.7
	27	6	20	8.3	36- 2.07	120-34.76	5.10	0.7	5 208	6.0	0.01	0.3	0.5
	27	8	20	16.0	36- 4.98	120-40.59	6.77	0.4	4 199	5.0	0.02	1.6	1.2
	28	15	6	19.3	36- 4.36	120-37.36	4.96	1.2	10 147	10.0	0.01	0.1	0.3
	28	15	7	4.4	36- 4.40	120-37.35	4.38	0.5	4 220	10.0	0.	0.7	1.2
	31	22	47	50.5	36- 2.93	120-36.11	4.27	1.2	6 151	7.0	0.01	0.1	0.7
	3	20	36	57.5	35-56.58	120-38.40	9.25	1.2	12 88	4.0	0.07	0.3	0.6
JUN	6	20	46	3.7	36- 0.25	120-33.34	4.74	0.9	5 251	5.0	0.02	0.9	2.4
	9	3	17	21.6	35-58.53	120-31.26	4.59	2.5	20 94	3.0	0.03	0.1	0.1
	10	18	53	13.5	35-59.61	120-32.54	5.21	1.6	17 90	5.0	0.02	0.1	0.1
	10	21	1	11.7	35-59.66	120-32.55	5.25	1.0	8 186	5.0	0.01	0.1	0.3
	11	4	55	21.1	35-51.70	120-24.34	5.02	1.2	13 130	2.9	0.05	0.2	0.3
	12	19	42	49.2	36-12.06	120-42.14	5.22	0.6	4 220	10.0	0.	1.4	1.0
	15	14	12	33.1	36- 0.76	120-33.84	5.47	1.4	13 165	5.0	0.02	0.1	0.1
	16	1	7	47.2	35-47.90	120-20.45	8.67	0.	8 78	7.0	0.04	0.2	0.7
	16	4	0	36.1	36- 0.48	120-34.12	4.62	1.0	5 260	4.0	0.02	1.0	1.8
	18	13	38	8.6	35-47.00	120-19.13	2.91	0.7	8 84	7.5	0.03	0.1	0.7

PARKFIELD CALIFORNIA SEISMICITY MARCH 1984 - JUNE 1988 (CONTINUED)

1988	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO GAP	DMIN	RMS	ERH	ERZ
JUN	19	4	52	56.8	35-57.54	120-30.68	6.67	0.	6 245	3.0	0.01	0.3 0.5
	19	16	33	44.1	36- 4.12	120-35.26	10.03	0.	5 224	9.0	0.01	0.5 0.6
	21	12	4	22.9	35-58.14	120-30.77	11.05	0.	6 242	5.0	0.01	0.7 0.5
	24	16	8	7.3	35-59.87	120-33.36	3.93	1.2	10 163	4.0	0.03	0.3 0.7

PARKFIELD REGION

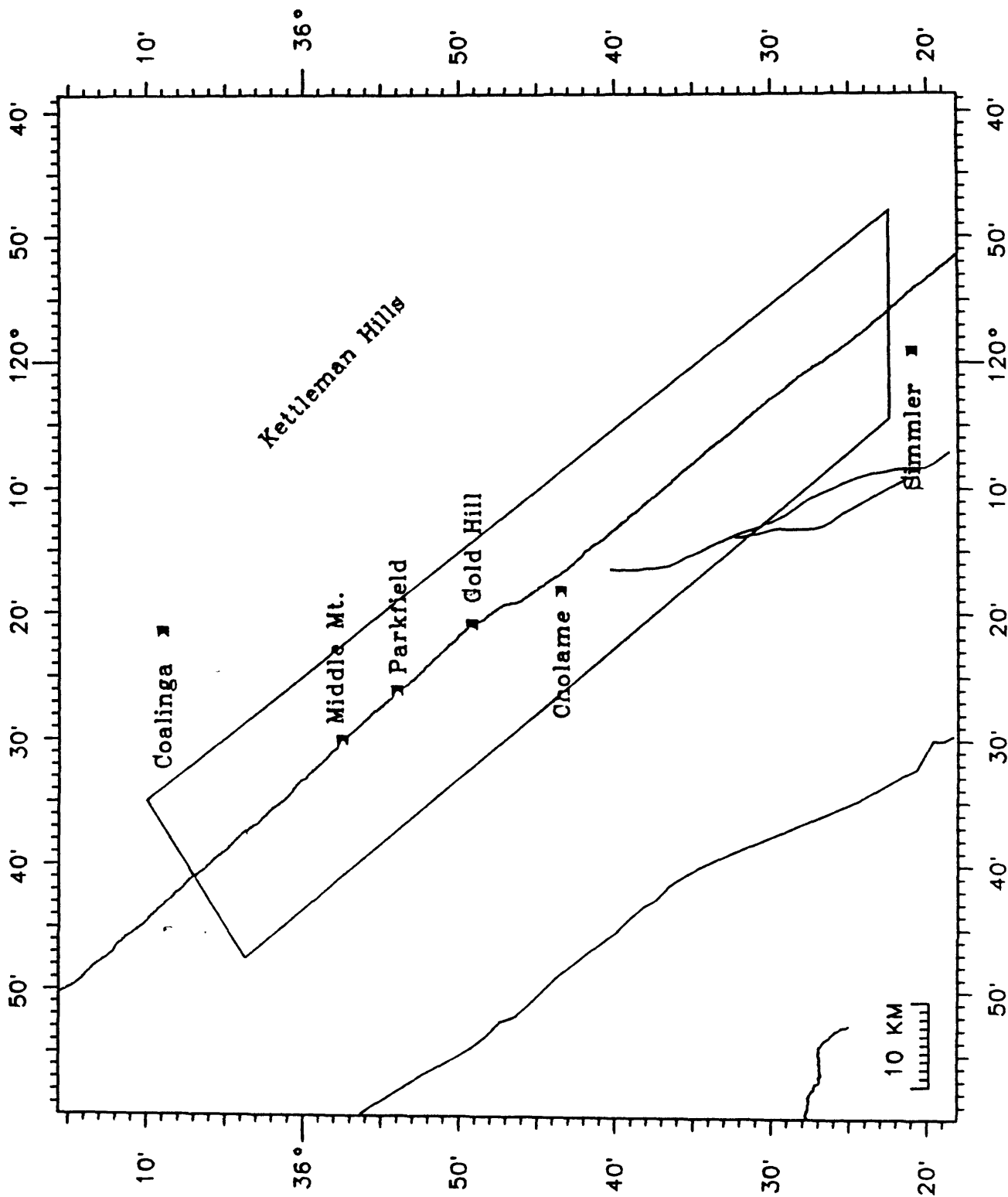


Fig. 1

NEW LOCATIONS
MARCH 1984 TO JUNE 1988

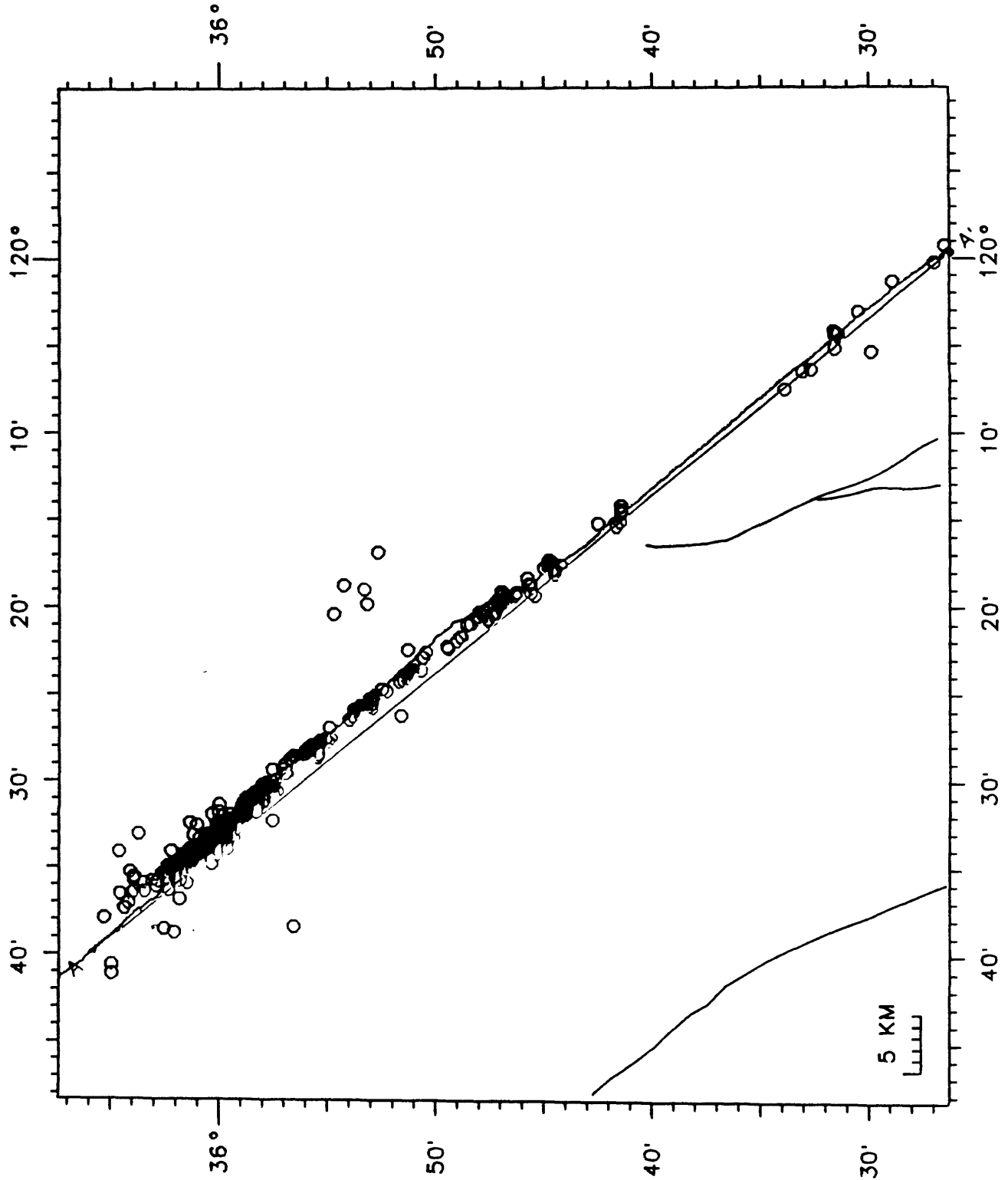


Fig. 2

OLD LOCATIONS
MARCH 1984 TO JUNE 1988

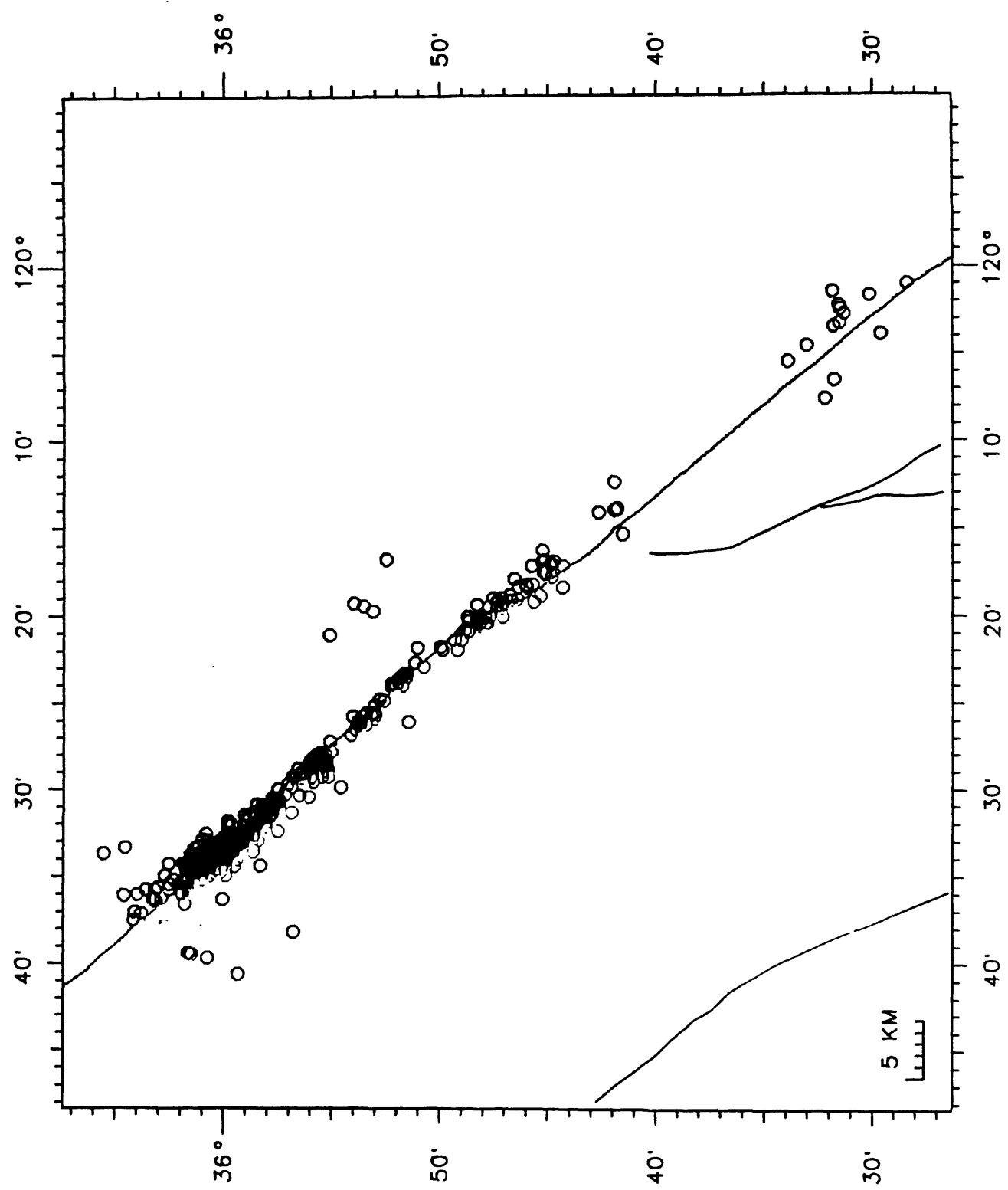


Fig.3

NEW LOCATIONS
MARCH 1984 TO JUNE 1988

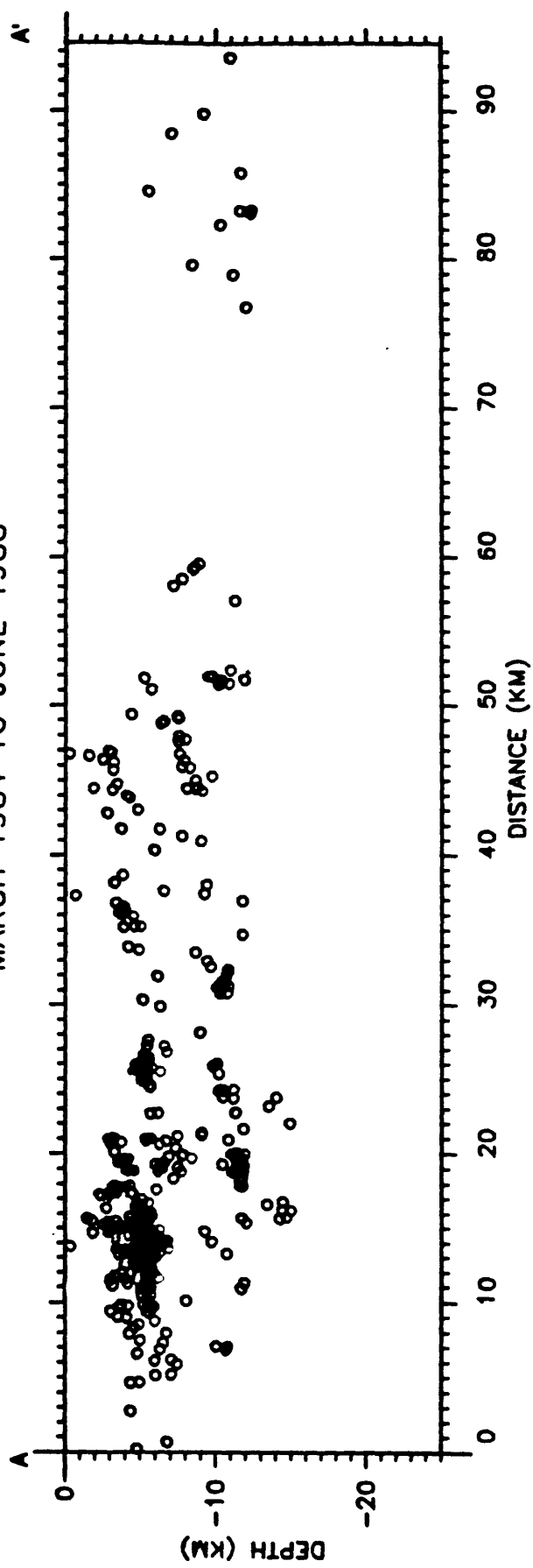


Fig. 4