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Menlo Park, California 94025

CATALOG OF EARTHQUAKES ALONG
THE SAN ANDREAS FAULT SYSTEM IN CENTRAL CALIFORNIA
October - December 1972*

by

R. L. Wesson, F. W. Lester, and K. L. Meagher

Open-file Report
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This report is preliminary and has
not been edited or reviewed for
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*Work performed in cooperation with the Division of Reactor
Development and Technology, Atomic Energy Commission

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INTRODUCTION

Numerous small earthquakes occur each day in the coast ranges of Central California. The detailed study of these earthquakes provides a tool for gaining insight into the tectonic and physical processes responsible for the generation of damaging earthquakes. This catalog contains the fundamental parameters for earthquakes located within and adjacent to the seismograph network operated by the National Center for Earthquake Research (NCER), U.S. Geological Survey, during the period October - December, 1972.

The motivation for these detailed studies has been described by Pakiser and others (1969) and by Eaton and others (1970). Similar catalogs of earthquakes for the years 1969, 1970 and 1971 have been prepared by Lee and others (1972 b, c, and d). Catalogs for the first, second, and third quarters of 1972 have been prepared by Wesson and others (1972 a, b, and 1973). The basic data contained in these catalogs provide a foundation for further studies.

This catalog contains data on 1061 earthquakes in Central California. Arrival times at 129 seismograph stations were used to locate the earthquakes listed in this catalog. Of these, 104 are telemetered stations operated by NCER. Readings from the remaining 25 stations were obtained through the courtesy of the Seismographic Stations, University of California, Berkeley (UCB), the Earthquake Mechanism Laboratory, National Oceanic and Atmospheric Administration, San Francisco (EML); and the California Department of Water Resources, Sacramento.

The Seismographic Stations of the University of California, Berkeley, have for many years published a bulletin describing earthquakes in Northern California and the surrounding area, and readings at UCB Stations from more distant events. The purpose of the present catalog is not to replace the UCB Bulletin, but rather to supplement it, by describing the seismicity of a portion of central California in much greater detail.

INSTRUMENTATION

The telemetered seismograph system used may be illustrated by block diagram (Figure 1). The equipment at each station includes a vertical component, 1 Hz seismometer (usually Mark Products, Model L-4C), a package containing a preamplifier and voltage-controlled oscillator (usually Develco, Model 6202), and batteries. The frequency-modulated tone produced at each station is carried by wire (occasionally by radio) to a terminal where it is combined with tones from up to 7 other stations. The resulting multiplexed signal is then transmitted by voice-grade telephone circuits to the NCER office in Menlo Park, California. There the eight channels of data on each telephone line are separated and demodulated by discriminators (usually Develco, Model 6203), and recorded on 16 mm film using a Develocorder (Teledyne, Geotech, Model RF-400). Each Develocorder records seismic signals from up to 16 stations. In addition, 2 timing signals (WWVB on 2 traces, and a chronometer) are recorded simultaneously with the seismic signals.

Figure 1. Block diagram of the NCER telemetered seismograph system.

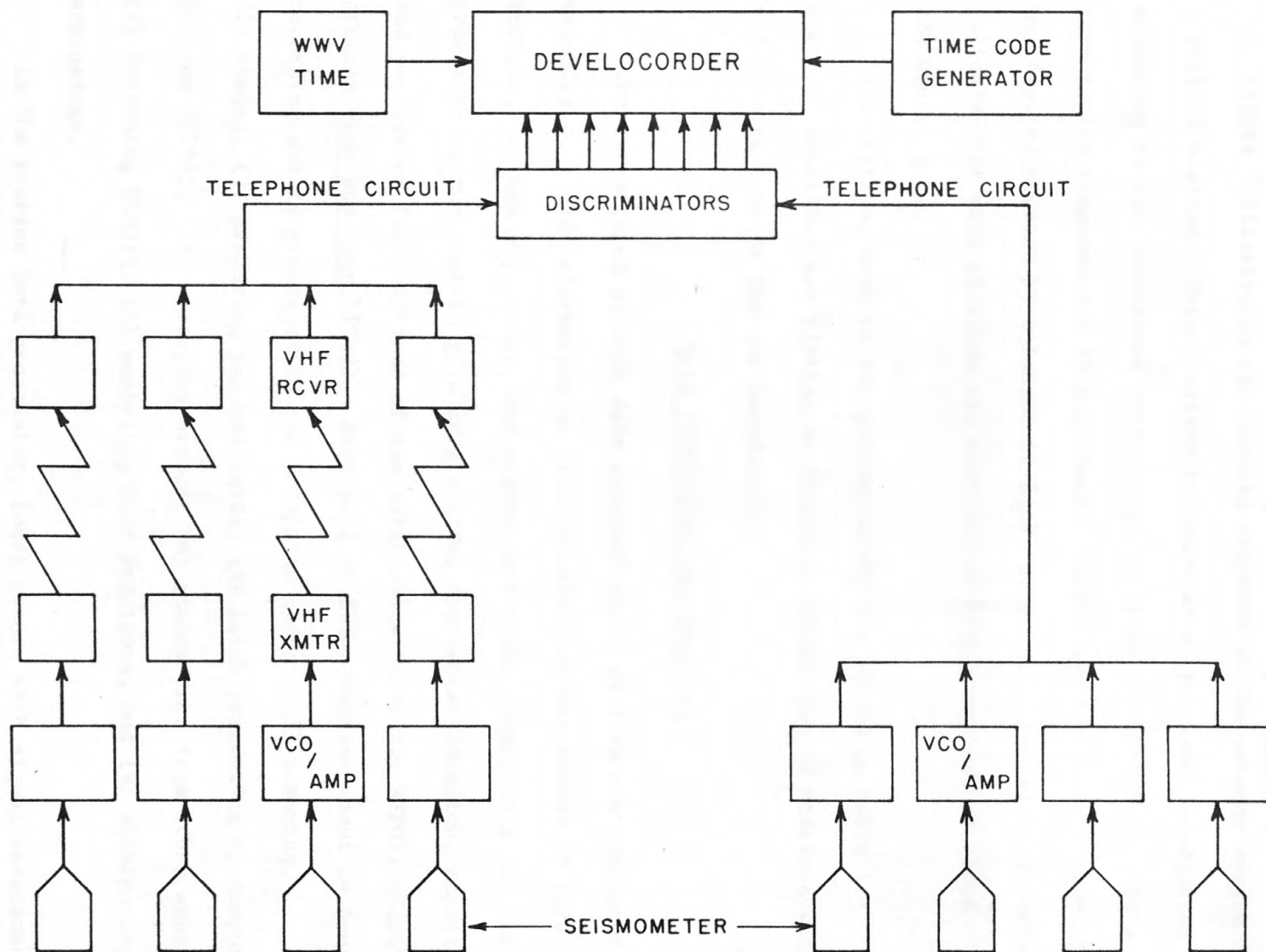


Figure 2 illustrates the overall response of the seismic system for a typical station. Magnification for individual stations is adjusted according to the background noise level in steps of 6 decibels. As a result, the response for an individual station may differ from that of the typical station by a factor of 2, 4, 8, or 16. Precise calibrations indicate that most stations are operated at magnifications of about 100,000 at 1 Hz.

All stations used in the present study are listed in Table 1. Station locations are plotted on Figure 3, except for 13 stations which are located outside the map boundaries.

DATA PROCESSING AND ANALYSIS

The telemetered seismic data recorded on 16 mm film are processed manually to yield information on first P-arrivals, directions of first motions, maximum amplitudes, and signal durations. These data are then processed by computer to give origin time, hypocenter location, magnitude, and pattern of first motions of the earthquakes using the HYP071 computer program (Lee and Lahr, 1972). Each roll of film contains about 24 hours recording and is processed in the following steps: (1) scanning, (2) timing, (3) preparing punched cards, (4) batch processing by computer program HYP071, (5) correcting errors, (6) adding data from other sources, (7) rerunning HYP071, (8) analyzing poor solutions, and (9) eliminating explosions.

In the routine data processing, local events with signal duration of 10 seconds or more are always timed. This corresponds to a cutoff at about magnitude 1 for events within the NCER network. Some smaller

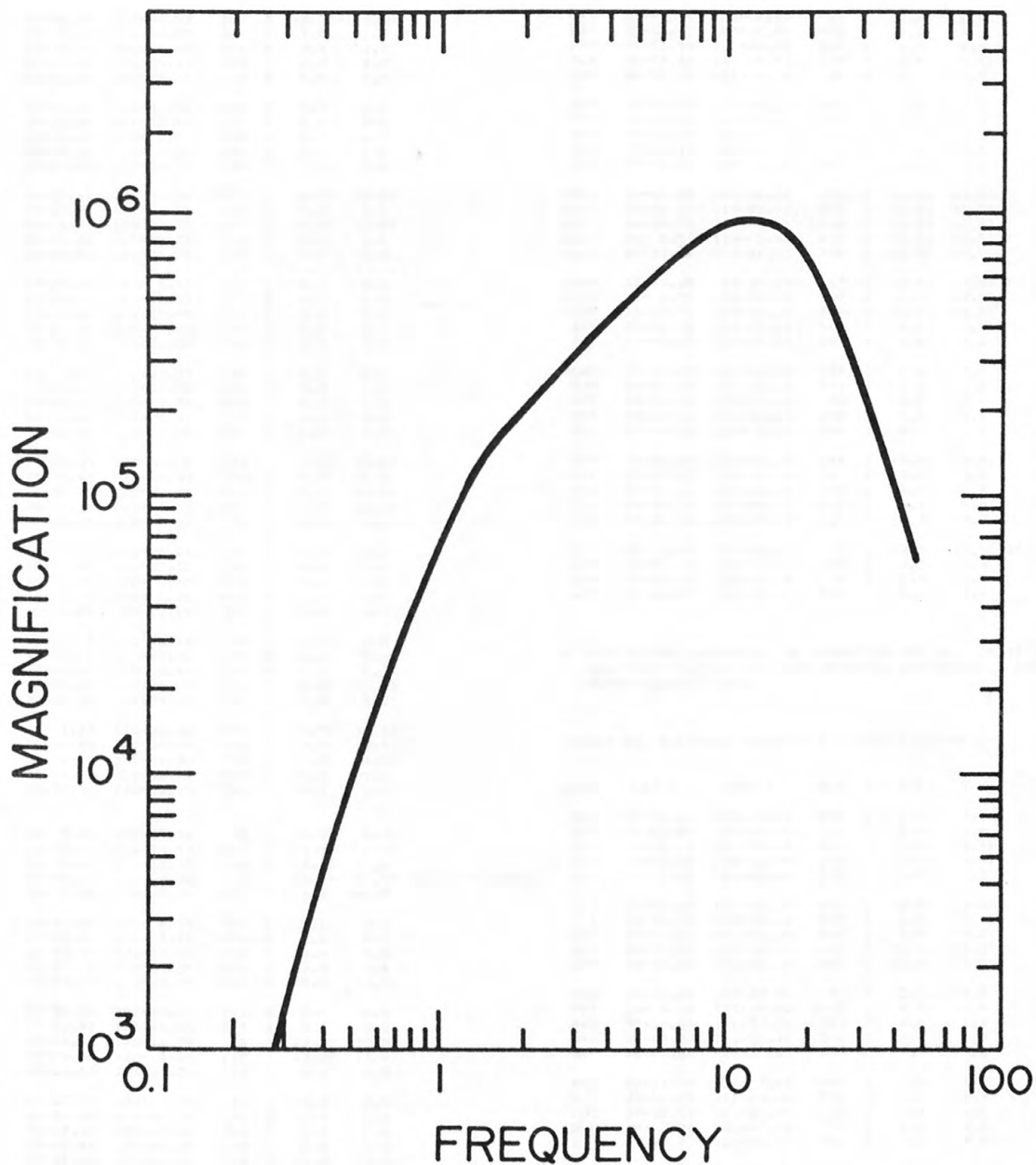


Figure 2. System response of a typical NCER telemetered seismograph station. This magnification curve is obtained for a typical system (L-4C seismometer, Develco VCO/Amplifier, Develco Discriminator, and Geotech Develocorder) with electronic gains adjusted to produce a 10 mm peak-to-peak record amplitude when a 10 μ v rms, 5 Hz, calibration signal is introduced in place of the seismometer (attenuation set at 42 db).

TABLE I. STATION DATA*

TABLE 1A. NCER TELEMETERED STATIONS

CODE	LAT N	LONG W	ELV	K	D(E)	D(W)
ABP	37-56.35	122-45.53	140	2	(3.5)	(3.5)
ALM	37- 9.50	121-50.82	244	1	1.6	1.6
AND	37- 9.74	121-37.45	244	1	3.0	3.2
ANG	37-51.68	122-25.77	223	1	2.2	2.2
ANZ	36-53.08	121-35.45	122	2	4.4	1.4
ARN	37-20.96	121-31.96	628	1	3.9	4.2
BHR	38-15.65	122-32.99	137	1	2.2	2.2
BCH	37- 9.62	122- 1.57	660	2	3.7	4.7
REN	36-30.60	121- 4.53	448	2	3.4	3.0
BGH	37-20.52	122-20.34	158	2	3.8	3.8
BGM	36-35.48	121- 1.52	1217	1	(3.5)	(3.5)
BOL	37-48.97	122- 3.72	610	1	4.6	5.0
HRD	38- 0.48	120-24.92	387	1	(3.5)	(3.5)
RTW	36-18.90	120-55.75	381	2	2.1	2.1
BVL	36-34.51	121-11.34	510	2	3.1	0.6
BWR	37-55.45	122- 6.40	221	1	5.1	5.1
CAL	37-27.07	121-47.95	265	1	4.9	4.3
CAN	37- 1.52	121-29.02	332	1	3.6	5.0
CAR	38-19.28	122-47.73	98	1	2.2	2.2
CAS	35-55.90	120-20.22	1189	1	5.2	5.2
CHO	37- 6.71	121-41.33	192	1	2.2	2.7
CCR	37-47.30	121-57.00	185	1	7.1	7.1
CDR	38-22.19	122-27.70	620	1	2.2	2.2
CHR	36-57.46	121-35.01	241	1	2.1	3.6
CNR	36-42.55	121-20.60	305	2	4.8	0.7
CNS	37-56.33	120-31.76	373	1	(3.5)	(3.5)
CUE	37-15.46	121-40.35	366	1	5.9	6.8
COP	37-58.36	120-37.02	336	1	(3.5)	(3.5)
CHM	38- 1.12	120-30.57	475	1	(3.5)	(3.5)
CYH	37-33.54	122- 5.62	38	1	2.5	3.2
DIL	36-50.12	121-38.64	204	2	3.2	2.2
DOO	37-43.00	121-50.12	198	1	6.8	6.8
DUR	38- 1.78	122- 0.05	168	1	5.4	5.4
EGR	37- 2.11	122- 6.25	442	2	1.7	1.7
EKH	36-39.88	121-10.45	342	1	1.6	4.0
EMM	36-39.68	121- 5.76	488	1	0.8	2.2
EUC	37- 3.04	121-48.56	438	2	3.0	3.8
FAR	37-41.90	123- 0.00	107	2	1.3	1.3
FEL	36-59.00	121-24.09	323	1	(3.5)	(3.5)
FRP	36-45.22	121-29.43	705	2	2.2	0.8
FwL	38- 1.17	120-35.00	880	1	(3.5)	(3.5)
GDH	35-49.86	120-21.17	433	1	3.3	3.4
GHS	37- 5.75	121-26.83	778	1	2.3	4.4
GVR	38-16.84	122-12.89	257	1	5.2	5.2
HEM	36-22.38	120-49.13	750	1	4.3	0.8
HMR	38- 9.28	121-48.02	65	1	6.3	6.3
JHC	36-32.82	121-23.53	207	2	0.9	0.9
JOL	36- 5.02	121-10.15	336	2	2.1	1.1
LCH	37-44.28	122- 3.83	312	1	(3.5)	(3.5)
LNS	38- 9.15	122-42.75	120	1	1.9	1.9
LOR	36-14.79	121- 2.55	308	2	0.1	0.1
Lrv	36-25.46	121- 1.08	555	2	5.5	2.1
LTR	36-53.07	121-18.49	183	1	3.0	4.5
LTw	37-21.22	122-12.25	270	2	3.8	3.4
MCM	37-53.17	120-30.40	362	1	(3.5)	(3.5)
MGA	37-38.22	122-28.43	201	2	2.4	2.4
MHR	37-21.57	121-45.38	518	1	5.3	6.2
MIL	37-46.88	122-10.55	90	1	(3.5)	(3.5)
MIX	38-26.68	122- 3.44	177	1	(3.5)	(3.5)
MNR	37-35.68	121-38.22	500	1	4.6	4.6
MOR	37-27.01	122-11.00	21	1	3.8	2.6
MON	36-36.03	121-55.06	192	2	1.1	1.1
MOP	36-12.91	120-47.69	784	2	1.8	1.9
MOR	37-48.68	121-48.15	792	1	6.6	6.6
MSJ	37-31.25	121-52.23	498	1	(3.5)	(3.5)
MWS	38-33.03	122-43.37	134	1	3.3	3.3
OBF	37-54.00	120-34.04	176	1	(3.5)	(3.5)
OCR	36-55.03	121-30.46	98	1	3.0	4.4
PAL	37-37.88	121-57.37	463	1	4.3	4.1
PCL	37- 3.13	121-17.40	152	1	2.2	3.6

TABLE 1A. NCER TELEMETERED STATIONS (CONTINUED)

CODE	LAT N	LONG W	ELV	K	D(E)	D(W)	NOTE **
PES	37-11.94	122-20.90	84	2	3.2	2.5	
PKF	35-52.91	120-24.81	469	1	4.3	5.3	
PKM	36-51.38	121-24.37	122	1	4.6	6.5	
PLV	36-58.62	121-49.93	158	2	(3.5)	(3.5)	
PMR	36-57.19	121-41.70	94	2	3.7	3.5	
PNC	36-33.73	121-38.18	305	2	1.8	1.6	
PTV	36- 6.50	120-43.27	506	2	1.9	1.9	
QSR	36-50.02	121-12.76	536	1	3.1	4.0	
RUS	37-54.75	121-54.33	331	1	4.6	4.6	
SAW	37-12.74	122-10.06	262	2	(3.5)	(3.5)	
SBCC	34-56.48	120-10.32	610	2	(3.5)	(3.5)	
SRCD	34-22.12	119-20.63	213	2	(3.5)	(3.5)	
SBLG	34-29.79	114-42.81	1190	2	(3.5)	(3.5)	
SBLG	34- 6.57	119- 3.85	415	2	(3.5)	(3.5)	
SBLP	34-33.62	120-24.03	134	2	(3.5)	(3.5)	
SBSC	33-59.68	119-37.99	457	2	(3.5)	(3.5)	
SBSM	34- 2.25	120-20.99	172	2	(3.5)	(3.5)	
SBSN	33-14.70	119-30.40	259	2	(3.5)	(3.5)	
SFT	37-24.31	122-10.55	143	1	4.0	4.0	
SHG	36-24.83	121-15.22	192	2	0.5	0.1	
SHR	38-31.20	122-36.43	328	1	2.0	2.0	
SJG	36-47.88	121-34.43	171	2	3.0	1.5	
SPT	38-10.96	122-27.20	88	1	2.2	2.2	
SRS	36-40.11	121-31.13	399	2	1.4	0.5	
STJ	37-20.03	122- 5.48	122	1	6.1	4.1	
STN	37-54.27	120-24.29	366	1	(3.5)	(3.5)	
STV	37-17.07	122- 7.42	357	2	3.0	3.0	
SVC	37-17.11	121-46.35	128	1	5.4	4.8	
TAY	35-56.73	120-28.45	552	1	4.3	5.6	
TMN	38-23.15	122-40.83	105	1	2.7	2.7	
TYL	38- 8.82	121-33.75	1	1	(3.5)	(3.5)	10/1 TO 10/24
WDS	37-25.08	122-16.33	280	2	3.3	2.5	
WHW	38-27.42	122-53.26	50	1	1.6	1.6	
WKR	35-48.87	120-30.67	503	2	4.2	4.4	

** THIS COLUMN INDICATES THE OPERATION PERIOD. IF IT IS BLANK THEN THIS STATION HAS BEEN OPERATED CONTINUOUSLY DURING THE FOURTH QUARTER 1972

TABLE 1B. STATIONS OPERATED BY OTHER INSTITUTIONS

CODE	LAT N	LONG W	ELV	K	D(E)	D(W)
BKS	37-52.60	122-14.10	276	1	2.4	2.4
BRK	37-52.40	122-15.60	81	1	2.4	2.4
FHC	40-48.10	123-59.10	610	1	(3.5)	(3.5)
FRI	36-59.50	119-42.50	119	1	(3.5)	(3.5)
GCC	37- 1.80	121-59.80	122	2	1.7	1.7
JAS	37-56.80	120-26.30	457	1	(3.5)	(3.5)
LLA	36-37.00	120-56.60	475	1	1.5	2.1
MHC	37-20.50	121-38.50	1282	1	4.5	5.0
MIN	40-20.70	121-36.30	1495	1	(3.5)	(3.5)
ORV	39-33.33	121-30.00	362	1	(3.5)	(3.5)
PCC	37-30.00	122-22.90	91	2	3.7	3.7
PHI	36- 8.50	120-39.90	1187	1	4.0	4.0
PRS	36-19.90	121-22.20	363	2	1.1	1.1
SAO	36-45.90	121-26.70	350	2	2.7	1.0
CBC	36-55.88	121-39.63	219	2	4.4	3.2
CRC	37-14.50	122- 7.82	607	2	4.0	4.4
HCC	36-58.88	121-43.35	159	2	4.0	4.2
MDC	37-52.90	121-54.85	1173	1	4.8	4.8
OLC	38- 2.38	122-47.55	30	2	2.6	2.6
SAC	37-34.95	122-25.03	207	2	2.2	2.2
SFR	37-47.28	122-23.37	8	1	1.9	1.9
SHC	38-40.22	122-38.03	1200	1	(3.5)	(3.5)
SLD	37- 4.48	121-13.23	443	1	2.3	5.2
STC	36-38.10	121-14.00	259	2	5.5	1.9
HBM	39-24.10	120- 9.98	1804	1	(3.5)	(3.5)

* LAT and LONG are latitude and longitude in degrees and minutes. ELV is elevation in meters. D(E) and D(W) are given in kilometers. See text (p. 10) for explanation of K, D(E), and D(W).

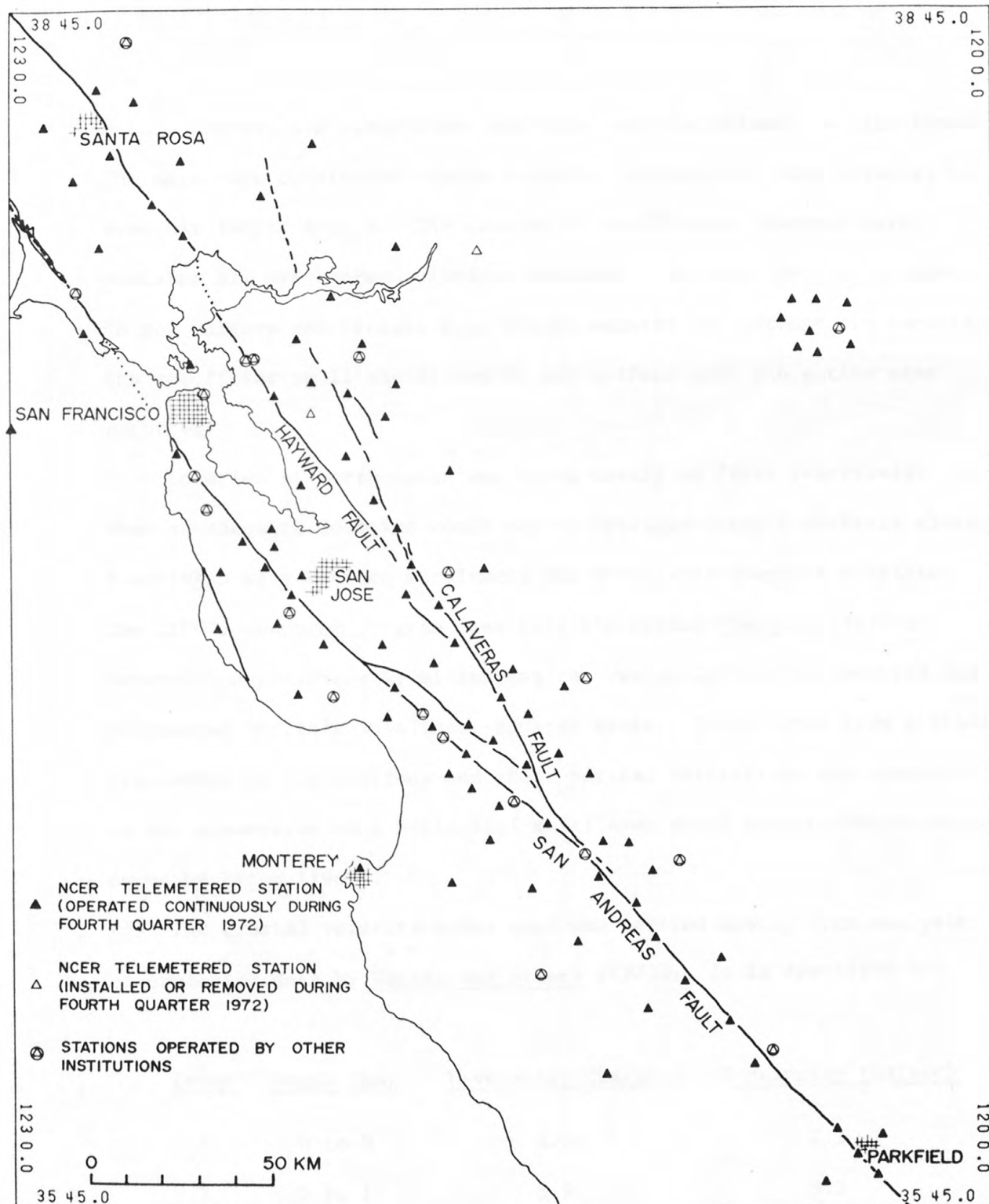


Figure 3. Map showing principal seismograph stations used in locating earthquakes.

events for which 6 clear first arrivals can be obtained are also timed. The magnitude cutoff for events outside, but near the NCER network, is somewhat larger than 1. The catalog of earthquakes reported here contains all hypocenter solutions obtained. Because the station coverage is not uniform and because some events outside the network are reported, the cutoff for small magnitudes is not uniform over the entire area reported.

Location of earthquakes was based mainly on first P-arrivals. When an adequate location could not be obtained using P-arrivals alone, S-arrivals were used to supplement the P-arrivals whenever possible. The HYP071 computer program uses Geiger's method (Geiger, 1912) to determine hypocenters by minimizing the residuals between observed and calculated arrivals in a least-squares sense. Traveltimes from a trial hypocenter to the stations and their partial derivatives are computed on the assumption of a horizontal multilayer model by a technique introduced by Eaton (1969).

The crustal velocity model used was derived mostly from analysis of explosion data by Wesson and others (1973). It is specified by:

<u>Layer</u>	<u>Depth (km)</u>	<u>P-velocity (km/sec)</u>	<u>S-velocity (km/sec)</u>
1	0 to D	4.0	2.2
2	D to 15	5.9	3.3
3	15 to 25	6.8	3.8
4	below 25	8.05	4.5

The variable boundary between the first and second layer (depth D) is determined for each station from time-term analysis of explosion data whenever they are available. The variable first layer in the crustal model is an approximation to the sedimentary layer above the Pg refractor. To permit sharp changes in sediment thickness across the San Andreas fault, two D values for each station were determined: one for sources east of the fault, and the other for sources west of the fault. The set of D values to be used in the program is determined by the location relative to the fault of the station with the earliest P-arrival time. For example, if the earliest P-arrival occurs at a station west of the fault, then the set of D values appropriate to the sources on the west side, D(W), of the fault is selected. Table 1 shows values of D in kilometers at each station for sources east [D(E)] and west [D(W)] of the San Andreas fault as well as the location of the stations relative to the fault (K=1 for east, and K=2 for west). An assumed value for D of 3.5 km (about the median of the calculated values) is given in parentheses if a value could not be determined from the explosion data.

The method used for estimating the Richter magnitude of the earthquakes has been described by Lee and others (1972a). In brief, the magnitude of an earthquake is based on the average of magnitudes estimated at various stations. Station magnitude (M) is derived from its recorded signal duration [τ] according to:

$$M = -0.87 + 2.00 \log (\tau) + 0.0035 \Delta \quad [1]$$

where Δ is the epicentral distance in kilometers. The signal duration is defined as the duration time in seconds from the onset of the first

P-arrival to the point where the trace amplitude (peak-to-peak) falls below 1 cm as it appears on the Geotech film viewer.

For earthquakes with Richter magnitudes of 3.5 and below, equation [1] gives a good estimate of the magnitude; however, for Richter magnitudes above 3.5, the relationship between signal duration and magnitude is still under investigation.

Therefore, for earthquakes with magnitude greater than 3.5, we calculated the local magnitude following Richter (1942) using records obtained from the UCB Wood-Anderson seismographs at Berkeley, Mount Hamilton and the Stanford-U.S.G.S. Wood-Anderson at Palo Alto. The earthquakes for which the Richter magnitude has been determined from Wood-Anderson records are so indicated in the catalog.

A substantial effort has been made to identify explosions so as to eliminate them from the catalog. Explosions can be identified on the basis of several criteria: location at a known quarry or blasting site, shallow focal depth, time of day, focal mechanism or through correspondence with quarry operators. During the fourth quarter of 1972 37 blasts were identified and eliminated from the catalog.

DISCUSSION OF CATALOG

The parameters for the earthquakes listed in the Appendix include the origin time, location of hypocenter (epicenter and focal depth), magnitude, and number of stations used in the location. In addition, five other parameters are listed so that an evaluation of the quality of the hypocenter solution may be made. These parameters are: (1) the largest azimuthal separation between stations, GAP, (2) epicentral

distance to the nearest station, DMIN, (3) root-mean-square error of the time residuals, RMS, (4) standard error of the epicenter, ERH, and (5) standard error of the focal depth, ERZ. Based on these parameters, the general reliability of each earthquake solution is graded as either excellent (A), good (B), fair (C), or poor (D). Exact rules of quality classification are given in the Appendix.

A brief discussion on the accuracy of hypocenter determinations has been given by Lee and others (1971). To obtain a reliable epicenter, GAP should be less than 180° ; to obtain a reliable focal depth, DMIN should be less than the focal depth. In addition, systematic errors arise from uncertainties in the crustal velocity model. These errors cannot be determined except through controlled experiments, e.g., known explosions in the focal region. Because we present all hypocenter solutions of earthquakes in the region we studied, their quality varies. Although standard errors of epicenter and focal depth (ERH and ERZ) are given, they must be interpreted with caution, especially for quality C and D solutions. Hypocenter solutions for known blasts distributed through the San Francisco Bay region indicate that the true positions are within the standard error limits of the solutions, provided that the conditions $GAP < 180^\circ$ and DMIN is within a few kilometers are met. For example, comparison of locations determined for well-recorded quarry blasts (solution quality A) with the known coordinates indicate a typical error of about 1 km. As suggested by known blasts, a general statement on the accuracy of our hypocenter solutions is as follows:

<u>Solution Quality</u>	<u>Approximate accuracy in</u>	
	<u>Epicenter</u>	<u>Focal Depth</u>
A (excellent)	1 km	2 km
B (good)	2.5 km	5 km
C (fair)	5 km	>5 km
D (poor)	> 5 km	>5 km

Epicenters given in the Appendix are plotted according to magnitude in Figure 4.

The dashed lines in Figure 4 indicate the boundaries of the NCER seismograph network as it existed during the fourth quarter of 1972. We feel that the hypocenters listed in the Appendix represent a nearly complete set of earthquakes above magnitude 1 within these boundaries and that these earthquakes are generally well located. Earthquakes outside the dashed boundaries in Figure 4 tend to be less well located, depending on their distance from the network and their relationship to its geometry. Further, the minimum magnitude event that we can detect and locate increases with increasing distance from the network. For earthquakes outside the network, which yielded unsatisfactory locations on the basis of P-first-arrivals alone, S-arrivals were included whenever possible.

We believe that the precision of the earthquake locations (or the relative locations) is better than the absolute accuracy of the earthquake locations. Despite our attempts to model the laterally inhomogeneous nature of the velocity structure within the earth's crust using the variable-thickness surface layer, we suspect that the locations within certain parts of the area included in the boundaries of the network

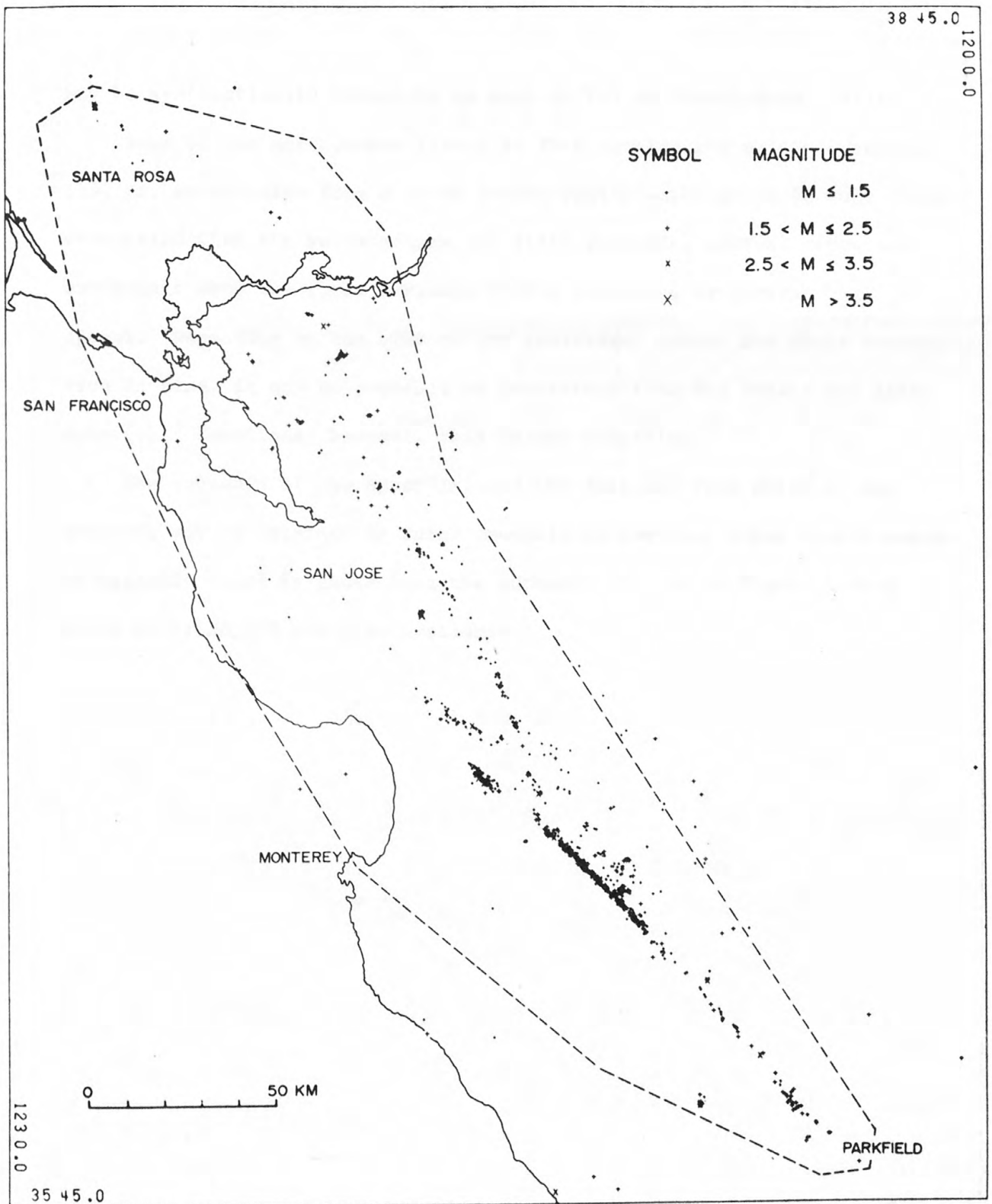


Figure 4. Map showing earthquake epicenters reported in the Appendix. Earthquakes in the region enclosed by the dashed line are generally well recorded and located.

may be systematically biased by as much as 2-3 km (Mayer-Rosa, 1973).

Some of the earthquakes listed in this catalog are multiple events, that is, earthquakes from a given source region which occur in such rapid succession that the seismographs are still recording arrivals from one earthquake when the first arrivals from a following earthquake begin to appear. Depending on the size of the individual events and their separation in time, it may be possible to accurately time and locate the later event(s). Sometimes, however, this is not possible.

The contents of the Appendix, and the data set from which it was derived, may be obtained in forms amenable to computer input (punch cards or magnetic tape) by contacting the authors. Copies of Figure 4 at a scale of 1:500,000 are also available.

ACKNOWLEDGMENTS

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Earthquakes along the San Andreas fault system in central California for October - December, 1972 are listed chronologically in this Appendix. The following data are given for each event:

- (1) Origin time in Greenwich Civil Time (GCT): date, hour (HR), minute (MN), and second (SEC). To convert to Pacific Standard Time (PST) subtract eight hours.
- (2) Epicenter in degrees and minutes of north latitude (LAT N) and west longitude (LONG W).
- (3) DEPTH, depth of focus in kilometers. If '*' follows the DEPTH, it means that the focal depth is restricted.
- (4) MAG, local magnitude of the earthquake. If "R" follows the magnitude, it indicates the Richter magnitude calculated from Wood-Anderson seismograph records.
- (5) NO, number of stations used in locating earthquake.
- (6) GAP, largest azimuthal separation in degrees between stations.
- (7) DMIN, epicentral distance in kilometers to the nearest station.
- (8) RMS, root-mean-square error of the time residuals:

$$RMS = \sqrt{\sum_i R_i^2 / NO}$$

where R_i is the observed seismic-wave arrival time minus the computed time at the i^{th} station.

- (9) ERH, standard error of the epicenter in kilometers:

$$ERH = \sqrt{SDX^2 + SDY^2}$$

where SDX and SDY are the standard errors in latitude and longitude, respectively, of the epicenter.

- (10) ERZ, standard error of the depth in kilometers.

- (11) Q, solution quality of the hypocenter. This measure is intended to indicate the general reliability of each solution.

<u>Q</u>	<u>Epicenter</u>	<u>Focal Depth</u>
A	excellent	good
B	good	fair
C	fair	poor
D	poor	poor

Q is based on both the nature of the station distribution with respect to the earthquake and the statistical measure of the solution. These two factors are each rated independently according to the following schemes:

Station Distribution

	<u>NO</u>	<u>GAP</u>	<u>DMIN</u>
A	≥ 6	$\leq 90^\circ$	$\leq \text{DEPTH or } 5 \text{ km}$
B	≥ 6	$\leq 135^\circ$	$\leq 2 \times \text{DEPTH or } 10 \text{ km}$
C	≥ 6	$\leq 180^\circ$	$\leq 50 \text{ km}$
D	Others		

Statistical Measures

	<u>RMS (sec)</u>	<u>ERH (km)</u>	<u>ERZ (km)</u>
A	< 0.15	< 1.0	< 2.0
B	< 0.30	< 2.5	< 5.0
C	< 0.50	< 5.0	
D	Others		

Q is taken as the average of the ratings from the two schemes, i.e., an A and a C yield a B, and two B's yield a B. When the two ratings are only one level apart the lower one is used, i.e., an A and a B yield a B.

- (12) QUADRANGLE, for earthquakes between $35^{\circ} 37.5'$ and $38^{\circ} 52.5'$ N. latitude and $120^{\circ} 00.0'$ and $123^{\circ} 45.0'$ W. longitude, QUADRANGLE indicates the name of the U.S. Geological Survey 7.5 quadrangle (or quadrant of 15' quadrangle), on which the epicenter is located. For earthquakes offshore or outside the designated area, the entry is starred and indicates the general geographic area in which the epicenter is located, for example, "*** MONTEREY BAY ***".

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
OCT	1	1	11	40.7	36-37.7	121-16.9	6.2	1.6	16	53	4.4	0.11	0.4	1.0	A	PAICINES
	1	2	51	18.9	37- 2.3	121-44.3	15.1	1.1	10	121	6.5	0.08	0.8	0.9	B	MT MADONNA
	1	6	38	22.8	36-35.6	121-13.8	5.3	2.5	27	65	4.2	0.14	0.4	0.7	A	BICKMORE CANYON
	1	6	52	18.6	36-35.6	121-13.8	4.9	1.0	9	66	4.2	0.03	0.2	0.5	A	BICKMORE CANYON
	1	14	37	1.2	36-29.9	121- 6.9	9.9	1.2	9	66	3.8	0.08	0.5	1.1	A	TOPO VALLEY
	1	14	56	30.9	37-49.7	121-57.1	6.8	0.8	7	121	4.4	0.14	1.2	0.7	B	DIABLO
	1	19	46	0.4	36-53.8	121-21.1	7.2	0.9	11	92	4.1	0.10	0.6	1.4	B	THREE SISTERS
	1	20	12	6.1	36- 9.9	121-30.0	10.2	1.4	10	254	21.9	0.14	2.9	1.4	C	TASSAJARA HOT SPRINGS
	2	0	18	30.1	36-35.3	121- 4.3	13.3	0.6	9	100	4.2	0.09	0.7	0.7	B	SAN BENITO
	2	0	35	4.7	36-36.0	121-14.5	6.0	1.2	10	64	4.0	0.03	0.2	0.3	A	BICKMORE CANYON
	2	2	48	34.7	36-48.8	121-32.3	6.0	1.4	16	45	3.5	0.13	0.5	0.6	A	SAN JUAN BAUTISTA
	2	4	7	27.1	36-32.3	121-10.0	6.9	0.7	9	99	4.6	0.03	0.2	0.4	B	BICKMORE CANYON
	2	9	59	25.2	36-48.4	121-31.6	4.5	2.9	30	37	4.3	0.18	0.5	0.6	B	SAN JUAN BAUTISTA
	2	11	25	5.3	36-26.7	121- 3.6	5.5	1.0	10	99	4.4	0.07	0.4	1.8	B	TOPO VALLEY
	2	13	21	49.8	36-26.8	121- 3.6	6.0	0.6	9	130	4.6	0.12	0.8	2.7	B	TOPO VALLEY
	2	13	50	39.0	35-58.0	120-33.8	2.0	1.9	9	126	8.4	0.09	0.8	0.6	B	STOCKDALE MTN
	2	14	57	23.1	36-49.1	121-31.1	2.8	0.5	9	91	5.4	0.08	0.5	0.6	B	SAN JUAN BAUTISTA
	2	21	6	29.5	36-47.4	121-30.5	5.0	1.4	17	59	4.3	0.14	0.5	1.2	A	SAN JUAN BAUTISTA
	2	23	32	42.6	36-30.3	121- 6.6	8.4	1.4	8	90	3.1	0.07	0.5	1.0	A	SAN BENITO
	2	23	53	19.4	36-36.4	121-14.8	4.8	0.8	10	61	3.3	0.05	0.3	0.7	A	BICKMORE CANYON
	2	23	54	10.6	36-36.6	121-15.0	6.2	2.3	22	61	3.2	0.13	0.4	0.9	A	MT JOHNSON
	3	0	3	32.6	36-36.5	121-14.9	4.5	0.6	10	61	3.2	0.04	0.2	0.7	A	BICKMORE CANYON
	3	0	3	50.4	36-36.4	121-14.9	5.2	0.8	10	62	3.4	0.05	0.3	0.6	A	BICKMORE CANYON
	3	0	15	20.1	36-37.9	121-17.4	6.8	1.3	12	53	5.0	0.10	0.5	1.2	A	PAICINES
	3	1	23	24.2	36-33.9	121-12.1	6.8	0.4	9	89	1.6	0.02	0.2	0.3	A	BICKMORE CANYON
	3	2	8	2.3	37-37.2	121-53.8	5.7	1.7	20	73	5.3	0.13	0.4	0.5	A	NILES
	3	5	54	51.0	36-23.7	121- 1.2	10.8	0.6	10	99	3.3	0.11	0.8	3.1	B	TOPO VALLEY
	3	5	59	38.4	36-48.1	121-31.3	4.9	3.0	39	37	4.6	0.22	0.5	0.7	B	SAN JUAN BAUTISTA
	3	6	0	57.6	36-48.1	121-31.0	4.1	2.5	30	36	5.1	0.16	0.4	0.4	B	SAN JUAN BAUTISTA
	3	6	7	43.8	36-48.4	121-31.0	4.1	1.5	16	41	5.2	0.12	0.4	0.5	B	SAN JUAN BAUTISTA
3	6	30	2.3	36-48.1	121-31.7	5.0	4.8R	43	37	4.1	0.21	0.5	0.7	B	SAN JUAN BAUTISTA	
3	6	39	32.0	36-48.3	121-30.2	2.4	0.7	13	59	5.9	0.12	0.5	0.6	B	SAN JUAN BAUTISTA	
3	6	53	0.2	36-49.5	121-32.2	2.0	0.6	9	81	4.6	0.07	0.4	0.4	A	SAN JUAN BAUTISTA	
3	11	10	13.6	36-48.8	121-32.7	5.1	4.0R	42	49	3.1	0.20	0.4	0.6	B	SAN JUAN BAUTISTA	
3	11	21	27.9	36-49.5	121-32.0	2.6	1.5	17	45	4.8	0.12	0.4	0.5	A	SAN JUAN BAUTISTA	
3	11	44	42.8	36-47.8	121-31.4	4.5	0.4	10	70	4.6	0.11	0.7	1.0	A	SAN JUAN BAUTISTA	
3	17	48	36.6	36-49.6	121-32.5	2.3	2.4	23	42	4.3	0.14	0.4	0.4	A	SAN JUAN BAUTISTA	
3	20	0	29.8	36-37.7	121-16.9	6.7	0.9	10	54	4.5	0.05	0.3	0.9	A	PAICINES	
4	0	49	49.8	37-49.7	122- 0.8	6.7	0.9	8	86	4.5	0.02	0.1	0.1	A	LAS TRAMPAS RIDGE	
4	2	54	21.6	36-37.8	121-17.0	7.3	1.0	10	80	4.5	0.12	0.7	1.5	A	PAICINES	
4	3	15	36.8	36-31.5	121- 5.3	7.9	1.3	13	88	2.0	0.08	0.4	0.7	A	SAN BENITO	
4	8	41	5.8	36-49.3	121-33.3	5.8	3.2	43	48	3.2	0.20	0.5	0.5	B	SAN JUAN BAUTISTA	
4	8	42	38.2	36-49.3	121-33.1	5.8	2.7	28	47	3.3	0.21	0.6	0.7	B	SAN JUAN BAUTISTA	
4	8	57	41.4	36-49.9	121-32.5	2.4	0.7	9	78	4.7	0.08	0.4	0.4	A	SAN JUAN BAUTISTA	
4	11	44	28.5	36-48.1	120-53.0	4.4	2.3	33	154	21.1	0.15	0.6	0.6	B	ORTIGALITA PEAK	

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
OCT	4	11	46	42.0	36-31.5	121- 9.1	7.5	1.1	11	59	6.5	0.08	0.4	0.9	A	BICKMORE CANYON
	4	13	25	34.5	36-36.7	121-15.0	5.3	1.9	19	60	3.0	0.11	0.4	0.8	A	MT JOHNSON
	4	16	10	36.4	36-36.5	121-14.8	4.4	2.0	15	60	3.1	0.08	0.3	1.1	A	BICKMORE CANYON
	4	17	59	0.7	36-26.5	121- 3.7	6.5	1.1	10	98	4.4	0.08	0.5	1.6	B	TOPO VALLEY
	4	18	6	15.0	36-47.6	121-30.4	3.9	1.3	15	45	4.7	0.15	0.7	0.7	A	SAN JUAN BAUTISTA
	4	20	31	46.0	36-31.7	121- 6.5	8.1	1.3	11	76	3.7	0.11	0.6	1.1	A	SAN BENITO
	4	21	8	3.3	36-36.4	121-14.8	5.3	0.5	7	143	3.4	0.03	0.3	0.8	B	BICKMORE CANYON
	4	22	26	37.1	36-37.1	121-10.0	6.7	1.7	14	60	5.2	0.11	0.5	0.9	A	BICKMORE CANYON
	5	3	3	32.0	35-56.8	120-31.3	5.8	2.3	12	132	4.3	0.15	1.0	1.0	B	STOCKDALE MTN
	5	7	26	58.0	36-41.7	121-21.7	3.8	0.4	13	86	2.3	0.14	0.7	1.0	A	PAICINES
	5	8	14	25.9	36-46.7	121-30.1	5.2	0.6	10	126	2.9	0.10	0.7	0.9	B	SAN JUAN BAUTISTA
	5	8	57	30.3	36-37.9	121-16.6	5.1	1.9	14	54	9.9	0.08	0.3	0.5	B	PAICINES
	5	9	54	16.0	37-38.4	121-36.7	6.9	1.2	9	209	5.5	0.17	2.1	2.4	C	MIDWAY
	5	10	37	52.0	36-27.0	121- 3.9	5.3	0.2	10	128	5.1	0.10	0.6	2.1	E	TOPO VALLEY
	5	11	6	26.3	36-25.1	121- 2.6	8.7	0.5	9	99	2.3	0.09	0.6	2.3	B	TOPO VALLEY
	5	23	46	12.1	36-31.9	121- 7.2	10.7	1.2	9	80	4.6	0.12	0.8	1.7	A	SAN BENITO
	6	0	42	9.9	36-38.0	121-16.7	4.5	1.6	15	54	4.1	0.11	0.4	1.4	A	PAICINES
	6	4	7	17.3	36-30.3	121- 7.3	0.4	1.7	10	63	4.1	0.09	0.4	0.6	A	SAN BENITO
	6	6	0	39.6	36-27.3	121- 5.7	6.7	0.7	11	88	6.3	0.13	0.8	1.8	A	TOPO VALLEY
	6	14	23	49.5	35-49.0	121-12.1	9.9	2.4	15	245	29.8	0.16	2.6	1.2	C	BURNETT PEAK
	6	15	29	27.6	36-27.5	121- 4.5	4.9	2.3	14	96	5.7	0.16	0.7	2.2	B	TOPO VALLEY
	6	15	37	8.4	36-27.3	121- 4.5	5.5	1.7	14	95	6.1	0.10	0.5	1.2	B	TOPO VALLEY
	6	17	5	56.3	37-22.3	121-43.5	5.6	0.7	6	81	3.0	0.15	1.5	1.4	B	LICK OBSERVATORY
	6	18	46	18.0	36-48.6	121-32.1	5.0	1.8	22	49	3.7	0.16	0.5	0.7	B	SAN JUAN BAUTISTA
	6	19	26	19.7	36-37.0	121-15.9	5.4	1.0	9	82	3.5	0.06	0.3	1.2	A	MT JOHNSON
	6	20	0	33.1	36-35.2	121- 6.5	10.1	0.8	9	78	7.3	0.06	0.4	0.9	A	SAN BENITO
	6	20	8	58.6	36-38.2	121-14.6	7.8	0.7	6	111	6.9	0.05	0.6	1.7	B	CHERRY PEAK
	6	21	9	24.8	36-47.2	121-29.7	2.9	1.1	9	74	3.6	0.14	0.8	0.8	A	HOLLISTER
	7	13	37	21.7	36-29.6	121- 3.1	6.3	2.0	17	87	2.8	0.12	0.5	1.0	A	TOPO VALLEY
	7	17	24	24.7	36-38.1	121-16.9	5.2	1.4	14	82	4.3	0.08	0.3	1.1	A	PAICINES
	7	18	46	25.3	37- 1.7	121-28.3	3.9	1.6	19	65	1.1	0.14	0.5	0.6	A	GILROY HOT SPRINGS
	7	19	18	22.7	37- 1.1	121-28.4	5.4	0.3	7	73	1.2	0.06	0.5	0.9	A	GILROY HOT SPRINGS
	7	19	26	38.3	37-17.9	121-39.1	3.2	1.3	11	68	4.9	0.12	0.5	0.3	A	LICK OBSERVATORY
	8	6	15	42.0	36-30.1	121- 6.9	3.5	1.3	10	65	3.6	0.12	0.6	0.7	A	SAN BENITO
	8	8	28	43.3	36-31.2	121- 8.6	7.3	0.6	6	86	6.2	0.09	0.9	2.3	B	BICKMORE CANYON
	8	9	26	15.9	37-16.3	121-37.5	5.5	1.4	21	86	4.5	0.14	0.5	0.5	A	ISABEL VALLEY
	8	11	26	42.7	36-35.1	121-14.0	8.8	1.1	10	79	4.1	0.04	0.2	0.5	A	BICKMORE CANYON
	8	13	8	11.5	36-35.7	121-14.7	7.2	1.9	24	66	4.5	0.14	0.4	0.9	A	BICKMORE CANYON
	8	16	52	35.3	36-49.3	121-33.1	6.2	2.2	26	48	3.2	0.14	0.4	0.5	A	SAN JUAN BAUTISTA
	8	21	23	3.3	36-48.6	121-32.1	5.9	1.7	21	43	3.8	0.13	0.5	0.7	A	SAN JUAN BAUTISTA
	8	23	3	18.6	36-37.7	121-16.7	5.5	1.3	11	54	4.0	0.06	0.3	0.8	A	PAICINES
	9	1	2	7.4	37- 0.7	121-41.5	9.5	0.8	9	102	4.3	0.07	0.7	1.2	B	MT MADONNA
	9	1	29	35.3	37-23.4	121-43.9	6.8	1.0	9	84	4.0	0.10	0.6	1.3	A	MT DAY
	9	6	38	44.4	35-59.2	120-35.7	1.1	1.6	11	130	11.8	0.11	0.9	0.8	B	STOCKDALE MTN
	9	8	56	52.5	36-33.6	121-12.2	8.9	0.2	8	118	2.1	0.02	0.2	0.4	B	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES---FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NC	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
CCT	9	10	5	5.6	36-37.9	121-16.8	6.2	0.6	9	53	4.2	0.04	0.3	1.0	A	PAICINES
	9	13	8	35.8	38-26.5	122-37.9	8.8	1.0	7	104	7.5	0.07	0.6	1.6	B	SANTA ROSA
	9	14	39	3.4	36-4.1	120-38.6	3.3	1.7	9	144	8.3	0.18	4.6	6.9	C	SLACK CANYON
	9	15	48	55.1	37-50.6	121-46.5	15.0	0.7	9	212	4.3	0.11	1.7	1.2	C	TASSAJARA
	9	19	15	53.3	35-59.1	120-34.0	3.6	1.7	11	133	9.4	0.17	1.3	0.6	B	STOCKDALE MTN
	9	21	11	10.7	37-22.9	121-42.7	1.2	1.2	8	87	4.6	0.09	0.5	0.5	A	MT DAY
	9	23	50	56.0	36-50.5	121-33.5	2.5	1.8	25	50	5.0	0.18	0.5	0.4	B	SAN JUAN BAUTISTA
	10	2	46	59.6	37-9.7	121-32.4	7.0	0.7	10	117	7.5	0.11	0.7	2.0	E	MT SIZER
	10	5	20	3.6	36-29.5	121-6.6	7.7	1.8	14	60	3.8	0.10	0.5	1.0	A	TOPO VALLEY
	10	5	20	52.4	36-31.1	121-8.4	9.0	1.3	10	88	5.9	0.10	0.6	1.4	A	BICKMORE CANYON
	10	5	22	0.3	36-31.0	121-8.3	8.1	0.6	8	88	5.6	0.11	0.8	2.1	B	BICKMORE CANYON
	10	5	36	48.3	36-30.2	121-6.6	8.2	0.6	9	64	3.1	0.08	0.5	1.2	A	SAN BENITO
	10	6	38	41.9	36-28.3	121-2.3	11.2	0.7	10	92	5.4	0.11	0.8	1.4	B	TOPO VALLEY
	10	6	38	51.2	37-28.4	121-50.8	5.9	1.0	11	76	4.9	0.14	0.7	1.5	A	CALAVERAS RESERVOIR
	10	6	57	42.0	35-57.8	120-32.8	6.1	1.9	14	129	6.9	0.18	1.1	2.7	B	STOCKDALE MTN
	10	7	0	29.7	36-57.8	121-26.3	6.5	0.6	12	86	3.9	0.10	0.5	1.1	A	SAN FELIPE
	10	12	30	43.3	36-25.1	120-58.5	0.2	0.8	9	123	3.9	0.13	0.7	0.5	B	ROCK SPRING PEAK
	10	12	47	24.3	36-49.5	121-16.2	9.9	1.3	19	106	5.3	0.12	0.6	1.1	B	TRES PINOS
	10	19	27	24.7	36-31.1	121-8.4	7.9	1.8	14	58	5.9	0.08	0.3	0.9	A	BICKMORE CANYON
	10	20	18	44.9	36-34.4	121-12.6	6.3	1.9	17	67	1.9	0.08	0.3	0.7	A	BICKMORE CANYON
	10	20	33	38.7	37-58.7	122-4.0	11.2	1.4	14	67	7.0	0.19	0.9	1.1	B	WALNUT CREEK
	10	20	34	25.0	36-31.2	121-8.4	8.8	0.6	7	87	5.9	0.09	0.7	1.8	A	BICKMORE CANYON
	10	21	26	13.3	36-30.9	121-8.3	7.8	1.0	8	90	5.7	0.11	0.8	2.1	B	BICKMORE CANYON
	11	2	42	25.6	36-37.0	121-15.9	6.3	1.8	18	59	3.5	0.11	0.4	1.0	A	MT JOHNSON
	11	7	22	32.1	36-36.2	121-13.7	4.0	1.4	10	70	3.6	0.11	0.7	0.6	A	BICKMORE CANYON
	11	10	54	10.9	37-47.2	121-54.7	12.6	1.1	8	78	3.4	0.04	0.3	0.7	A	DIABLO
	11	13	55	41.3	36-41.2	121-13.2	14.5	1.2	8	102	4.8	0.04	0.4	1.0	B	CHERRY PEAK
	11	20	33	35.0	36-30.6	121-8.6	10.4	0.7	11	60	6.0	0.07	0.4	0.9	A	BICKMORE CANYON
	12	3	3	14.9	36-38.8	121-16.5	6.2	0.5	8	88	3.9	0.09	0.6	1.8	A	PAICINES
	12	3	49	40.4	36-37.6	121-16.1	4.6	0.5	9	99	3.3	0.10	0.6	2.2	B	PAICINES
	12	3	59	52.4	36-26.2	121-3.5	9.4	0.5	11	99	3.8	0.09	0.5	1.0	B	TOPO VALLEY
	12	6	20	35.7	36-38.0	121-17.1	8.5	0.7	9	54	9.9	0.04	0.2	0.7	B	PAICINES
	12	7	6	54.0	36-48.5	121-31.5	3.5	1.0	14	58	4.6	0.12	0.5	0.5	A	SAN JUAN BAUTISTA
	12	7	32	20.4	36-31.1	121-8.1	6.8	1.4	8	88	5.4	0.07	0.5	1.2	A	BICKMORE CANYON
	12	8	31	44.0	36-46.6	121-21.4	9.5	1.5	15	55	7.6	0.12	0.5	1.4	A	TRES PINOS
	12	11	28	39.5	36-31.0	121-8.2	7.8	2.1	15	58	5.5	0.09	0.4	0.9	A	BICKMORE CANYON
	12	11	33	2.9	37-43.3	121-58.2	6.7	0.5	8	111	7.6	0.19	1.5	1.2	B	DUBLIN
	12	11	37	31.4	37-43.3	121-58.0	6.6	0.8	9	110	7.6	0.11	0.7	0.6	B	DUBLIN
	12	11	39	10.5	36-33.1	121-7.3	3.6	1.1	8	80	6.2	0.09	0.6	0.5	B	SAN BENITO
	12	11	56	34.6	36-57.7	121-37.0	6.7	1.4	13	48	3.0	0.05	0.2	0.5	A	CHITTENDEN
	12	12	44	35.1	37-43.4	121-58.1	6.5	1.1	10	78	7.4	0.09	0.5	0.4	B	DUBLIN
	12	16	27	53.9	37-43.0	121-57.6	6.3	1.3	10	107	8.0	0.24	1.2	1.1	B	DUBLIN
	12	18	20	20.6	36-32.3	121-10.1	6.7	0.9	10	76	4.5	0.06	0.4	0.8	A	BICKMORE CANYON
	12	22	57	34.6	36-49.9	121-33.0	2.7	3.0	32	43	4.3	0.16	0.4	0.3	B	SAN JUAN BAUTISTA
	12	23	9	60.0	36-50.0	121-33.0	2.6	2.8	28	44	4.4	0.18	0.5	0.4	B	SAN JUAN BAUTISTA

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
OCT	12	23	11	27.1	36-49.5	121-33.2	4.5	2.4	26	45	3.5	0.20	0.5	0.9	B	SAN JUAN BAUTISTA
	13	0	24	12.0	36-46.7	121-16.0	9.4	0.8	13	92	7.9	0.09	0.5	1.5	B	TRES PINOS
	12	3	55	48.4	37-20.6	121-41.0	8.8	1.3	17	79	3.7	0.13	0.5	0.9	A	LICK OBSERVATORY
	13	10	15	51.6	36-35.7	121-13.8	4.1	1.2	14	64	4.2	0.06	0.2	0.7	A	BICKMORE CANYON
	13	10	40	54.4	36-31.0	121- 8.1	8.0	1.2	9	88	5.4	0.08	0.6	1.3	A	BICKMORE CANYON
	13	11	2	14.5	36-32.7	121-10.8	7.1	1.6	17	66	3.5	0.08	0.3	0.7	A	BICKMORE CANYON
	13	12	51	46.9	36-28.1	121- 5.0	4.9	1.3	13	93	4.7	0.10	0.5	1.3	B	TOPO VALLEY
	12	16	12	23.7	36-48.5	121-31.8	4.4	0.7	9	65	4.1	0.10	0.6	0.7	A	SAN JUAN BAUTISTA
	13	21	50	18.8	36-34.4	121-12.7	6.6	1.6	14	68	2.1	0.05	0.2	0.5	A	BICKMORE CANYON
	12	22	9	16.9	37- 3.1	121-28.6	3.8	1.0	14	75	3.1	0.09	0.4	0.5	A	GILROY HOT SPRINGS
	13	22	48	52.0	36-31.4	120-59.4	8.2	1.0	11	115	7.8	0.17	1.0	2.8	B	LLANADA
	14	1	49	42.4	37-55.4	121-50.1	2.3	1.3	9	160	6.3	0.17	1.3	0.8	C	ANTIOCH SCUTH
	14	3	29	28.6	36-31.3	121- 6.9	8.5	1.3	10	86	3.7	0.10	0.6	1.2	A	SAN BENITO
	14	4	45	49.7	36-31.3	121- 6.9	9.3	1.5	13	65	3.8	0.10	0.5	0.8	A	SAN BENITO
	14	6	26	20.1	36-38.1	121-17.0	5.7	2.2	25	55	4.5	0.13	0.4	0.6	A	PAICINES
	14	6	35	27.1	36-31.6	121- 7.9	2.0	1.5	8	83	5.3	0.05	0.4	0.4	B	BICKMORE CANYON
	14	7	15	37.8	36-58.1	121-26.7	5.0	1.3	20	60	4.2	0.14	0.5	1.6	A	SAN FELIPE
	14	7	39	25.5	36-35.5	121-14.5	8.2	1.4	15	67	4.8	0.06	0.2	0.6	A	BICKMORE CANYON
	14	7	53	56.6	37-31.7	121-46.8	3.2	1.0	8	113	8.1	0.09	0.6	0.6	E	LA COSTA VALLEY
	14	10	50	32.5	36-37.2	121-16.2	5.6	1.2	13	57	8.8	0.07	0.3	1.1	B	MT JOHNSON
	14	11	22	18.2	36-37.5	121-16.9	6.5	1.4	10	72	10.0	0.08	0.4	1.3	B	MT JOHNSON
	14	12	16	40.1	36-41.4	121-13.4	14.2	0.9	8	102	5.3	0.03	0.3	0.4	B	CHERRY PEAK
	14	13	36	58.1	37-42.5	122- 5.5	6.6	2.0	25	50	4.1	0.14	0.4	0.5	A	HAYWARD
	14	13	49	37.7	37-42.5	122- 5.5	5.8	0.9	10	76	4.1	0.10	0.5	0.5	A	HAYWARD
	14	13	51	21.3	37-42.4	122- 5.3	5.6	1.1	12	76	4.1	0.11	0.5	0.5	A	HAYWARD
	14	14	25	34.6	36-41.4	121-12.7	6.4	0.7	7	108	4.5	0.02	0.2	0.5	B	CHERRY PEAK
	14	14	40	9.8	37-42.6	122- 5.3	5.3	1.6	21	55	3.8	0.12	0.4	0.4	A	HAYWARD
	14	14	41	57.3	37-42.6	122- 5.8	7.1	1.5	19	56	4.2	0.10	0.3	1.5	A	HAYWARD
	14	16	39	5.4	37-42.7	122- 5.0	5.0	2.0	29	48	3.4	0.16	0.4	0.5	B	HAYWARD
	14	18	47	41.6	36- 1.6	120-35.3	5.0	1.7	9	160	13.7	0.15	1.9	1.6	C	SMITH MOUNTAIN
	15	0	39	20.3	36-37.9	121-16.6	5.4	1.0	9	54	3.9	0.02	0.1	0.5	A	PAICINES
	15	5	35	56.0	36-10.5	121-42.4	2.3	1.6	10	256	43.5	0.15	2.1	1.4	C	PARTINGTON RIDGE
	15	9	2	16.1	36-29.2	121- 6.0	3.0	1.4	12	76	3.4	0.14	0.7	1.0	A	TOPO VALLEY
	15	9	30	30.0	36-50.2	121-33.2	2.0	1.3	14	68	4.7	0.12	0.5	0.4	A	SAN JUAN BAUTISTA
	15	17	15	46.3	36-35.7	121-12.8	1.4	1.7	14	61	3.0	0.08	0.3	0.3	A	BICKMORE CANYON
	15	19	8	55.3	36-35.2	121-13.5	5.7	0.9	11	66	3.5	0.03	0.2	0.4	A	BICKMORE CANYON
	15	23	15	32.2	37-21.0	121-41.3	7.8	0.7	9	81	4.2	0.11	0.7	1.3	A	LICK OBSERVATORY
	16	2	23	33.4	36-31.3	121- 6.8	9.6	0.5	9	85	3.6	0.10	0.7	1.7	A	SAN BENITO
	16	2	36	24.9	36-35.6	121-12.8	1.4	0.6	8	73	2.9	0.06	0.4	0.4	A	BICKMORE CANYON
	16	3	33	27.5	36-27.0	121- 4.2	4.7	0.8	14	97	5.4	0.07	0.3	1.0	B	TOPO VALLEY
	16	4	32	55.8	36-32.5	121- 8.1	5.7	1.2	10	76	6.2	0.11	0.6	1.6	E	BICKMORE CANYON
	16	4	47	13.4	36-23.6	120-59.3	1.1	2.1	15	89	4.4	0.07	0.3	0.3	A	ROCK SPRING PEAK
	16	6	3	32.2	37-47.2	121-54.8	11.7	0.8	8	79	3.2	0.11	0.9	1.8	A	DIABLO
	16	6	8	4.0	36-27.5	121- 4.2	4.7	0.6	12	98	5.8	0.06	0.3	0.9	B	TOPO VALLEY
	16	6	57	18.3	36-31.1	121- 8.4	7.9	1.0	10	81	5.9	0.09	0.5	1.2	A	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
OCT	16	7	58	0.6	36-38.0	121-14.3	7.8	1.1	9	69	0.4	0.11	0.8	1.4	A	CHERRY PEAK
	16	8	59	12.0	36-27.4	121- 4.6	7.5	2.3	20	81	5.9	0.15	0.6	1.3	B	TOPO VALLEY
	16	9	27	55.2	36-27.5	121- 4.5	7.4	2.5	21	80	5.8	0.17	0.6	1.4	B	TOPO VALLEY
	16	9	56	44.8	36-27.4	121- 4.5	5.9	1.6	17	81	6.0	0.12	0.5	1.3	B	TOPO VALLEY
	16	10	14	48.8	36-27.4	121- 4.3	4.5	0.6	11	56	6.0	0.07	0.4	1.3	B	TOPO VALLEY
	16	10	23	40.0	36-27.3	121- 4.2	7.2	2.0	18	80	5.9	0.13	0.5	1.2	A	TOPO VALLEY
	16	12	24	36.1	35-55.1	120-28.7	4.3	2.5	13	92	3.0	0.19	1.0	1.0	B	PARKFIELD
	16	13	18	28.4	36-27.2	121- 4.6	5.2	1.0	13	54	6.2	0.08	0.4	1.1	B	TOPO VALLEY
	16	14	18	29.8	37-54.9	121-43.0	12.6	1.0	8	259	13.7	0.10	2.4	0.8	C	BRENTWOOD
	16	15	23	13.1	36- 2.3	120-37.8	7.5	1.3	10	151	11.4	0.14	1.4	2.1	C	SLACK CANYON
	16	16	17	13.3	36-36.5	121-14.9	4.1	0.9	9	61	3.2	0.03	0.2	0.4	A	BICKMORE CANYON
	16	21	28	10.7	36-11.0	120-45.8	3.8	1.6	8	130	4.6	0.22	2.0	1.6	B	MONARCH PEAK
	16	21	47	41.7	37-52.4	121-58.1	0.4	1.4	9	63	4.9	0.15	0.6	1.7	A	DIABLO
	17	0	30	46.0	36-27.3	121- 4.3	5.4	1.3	14	97	5.8	0.09	0.4	1.1	B	TOPO VALLEY
	17	2	20	10.3	36-31.8	121- 6.4	9.2	1.0	10	81	3.7	0.13	0.9	1.4	A	SAN BENITO
	17	2	22	3.8	37-39.6	121-50.5	4.4	1.7	10	101	7.7	0.17	1.1	0.9	B	LIVERMORE
	17	2	27	1.9	36-40.8	121-12.9	12.3	0.8	6	100	4.1	0.01	0.2	0.5	B	CHERRY PEAK
	17	3	14	27.9	36-27.4	121- 4.2	6.3	1.7	19	80	5.9	0.13	0.5	1.2	A	TOPO VALLEY
	17	3	59	15.5	36-48.7	121-32.5	5.0	0.8	13	60	3.3	0.12	0.5	1.1	A	SAN JUAN BAUTISTA
	17	8	7	18.1	36-13.3	120-48.5	3.5	0.6	6	122	1.4	0.10	1.1	1.6	B	MONARCH PEAK
	17	10	20	20.5	36-38.1	121-16.3	4.0	1.2	12	56	3.5	0.07	0.3	0.4	A	PAICINES
	17	12	26	14.5	36-51.0	121-34.6	3.8	1.4	18	62	4.0	0.14	0.6	0.6	A	SAN JUAN BAUTISTA
	17	14	34	4.8	36-47.1	121-18.2	3.1	1.4	13	77	9.1	0.06	0.3	0.3	B	TRES PINOS
	17	19	8	46.5	36-26.9	121- 4.2	7.4	0.5	10	96	5.3	0.08	0.5	1.2	B	TOPO VALLEY
	17	20	31	39.5	36-31.1	121- 5.0	8.8	1.0	8	110	1.3	0.09	0.8	1.6	B	SAN BENITO
	17	21	40	8.9	37- 6.9	121-32.6	4.9	0.9	9	158	8.8	0.07	0.6	2.4	C	GILROY
	17	21	49	43.1	36-58.2	121-38.6	5.2	1.5	23	47	4.6	0.10	0.3	0.4	A	WATSONVILLE EAST
	17	21	50	34.9	37-43.0	122- 6.2	4.2	1.6	15	60	4.2	0.15	0.6	0.5	B	HAYWARD
	18	0	50	29.3	36-48.1	121-22.3	9.0	1.4	16	54	6.7	0.18	0.7	1.8	B	TRES PINOS
	18	2	56	29.6	36-37.5	121-16.3	7.6	0.7	10	55	3.6	0.09	0.5	1.3	A	MT JOHNSON
	18	7	16	16.2	37-25.8	121-39.6	5.0	0.9	9	122	10.0	0.18	1.3	1.2	B	MT DAY
	18	7	50	25.3	36-27.3	121- 4.3	6.5	1.6	19	79	5.8	0.11	0.4	1.0	A	TOPO VALLEY
	18	8	6	4.0	36-27.3	121- 4.2	5.8	1.6	17	80	5.8	0.11	0.4	1.1	B	TOPO VALLEY
	18	8	30	45.4	36-27.4	121- 4.4	5.5	0.4	9	96	5.9	0.10	0.6	1.7	B	TOPO VALLEY
	18	11	3	59.1	36- 6.2	120- 4.5	6.1	2.5	8	201	30.4	0.11	4.9	8.8	D	LA CIMA
	18	12	4	55.8	36-36.7	121-15.1	7.7	1.2	11	60	3.1	0.06	0.3	0.7	A	MT JOHNSON
	18	15	49	2.7	36-21.6	121- 1.0	12.6	2.4	15	143	7.2	0.12	0.9	0.6	B	PINALITO CANYON
	18	16	46	25.3	37-18.9	122-11.1	6.4	0.8	8	71	4.5	0.07	0.6	1.4	A	MINDEGG HILL
	18	19	13	45.7	36-33.0	121-10.7	6.0	0.6	7	89	3.0	0.05	0.4	0.9	A	BICKMORE CANYON
	18	22	17	22.2	36-30.9	121- 8.4	8.2	0.6	7	89	5.8	0.07	0.6	1.5	A	BICKMORE CANYON
	18	23	29	26.6	37- 6.9	121-32.5	3.5	1.3	10	106	8.6	0.05	0.3	0.2	B	GILROY
	19	0	28	6.5	36- 6.8	120-41.4	5.0	2.5	14	124	2.9	0.19	1.2	0.8	B	SLACK CANYON
	19	0	28	40.8	36- 7.1	120-40.8	4.5	2.3	8	118	2.9	0.11	1.1	0.8	B	SLACK CANYON
	19	1	43	1.7	36- 1.2	120-37.3	4.6	2.0	10	147	13.2	0.20	2.3	1.6	C	SMITH MOUNTAIN
	19	2	47	58.8	36-33.1	121-10.4	3.5	1.7	13	70	3.0	0.08	0.4	0.4	A	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	C	QUADRANGLE
OCT 19	5	19	36.0	37- 8.3	121-32.3	7.5	0.8	9	112	8.2	0.10	0.7	2.2	B	MT SIZER
19	9	16	56.4	37-52.5	121-57.9	3.9	1.4	8	62	4.5	0.16	1.0	0.6	B	CLAYTON
19	12	45	20.9	36-32.4	121- 6.4	0.9	1.2	7	163	4.4	0.18	2.2	2.7	C	SAN BENITO
19	12	58	44.9	36-30.8	121- 7.9	0.4	1.1	7	90	5.0	0.06	0.5	0.7	B	BICKMORE CANYON
19	16	58	40.6	36-44.9	121-20.5	8.2	1.0	10	64	4.4	0.12	0.7	1.5	A	PAICINES
19	19	8	14.4	37-46.9	122-34.3	4.6	2.1	14	165	15.3	0.15	0.9	0.8	B	POINT BONITA
19	19	31	41.3	36-56.4	121-35.1	7.8	1.3	17	60	1.9	0.09	0.3	0.6	A	CHITTENDEN
19	20	21	12.3	36-27.2	121- 4.4	5.9	0.8	6	132	5.9	0.11	1.6	4.1	B	TOPO VALLEY
19	22	38	18.9	36-27.3	121- 3.9	7.9	1.8	17	97	5.5	0.15	0.6	1.1	B	TOPO VALLEY
20	0	4	25.9	37-32.9	121-50.9	5.0	1.2	12	71	3.6	0.15	0.7	0.6	A	LA COSTA VALLEY
20	3	51	17.2	36-30.0	121- 7.6	6.6	2.4	25	69	4.7	0.20	0.7	1.3	B	BICKMORE CANYON
20	8	37	18.9	36-27.0	121- 4.4	6.8	0.8	8	122	5.8	0.10	0.9	1.8	B	TOPO VALLEY
20	9	38	40.5	36-48.3	121-32.0	4.5	1.4	18	46	3.7	0.14	0.4	1.1	A	SAN JUAN BAUTISTA
20	11	11	5.8	36-33.2	121- 8.6	8.3	1.4	10	70	4.8	0.14	0.8	1.6	A	BICKMORE CANYON
20	11	33	0.6	36-30.8	121- 8.6	7.6	1.5	10	80	6.1	0.12	0.7	1.5	A	BICKMORE CANYON
20	14	52	29.8	36-31.3	121- 6.4	9.4	1.3	8	84	3.0	0.11	0.8	1.8	A	SAN BENITO
20	15	32	58.7	36-27.0	121- 4.3	6.1	0.6	7	125	5.6	0.09	0.9	2.4	B	TOPO VALLEY
20	16	1	53.9	36-55.7	121- 5.5	4.0	1.3	10	233	15.1	0.12	1.0	6.4	C	LOS BANOS VALLEY
20	17	39	51.6	36-27.2	121- 4.1	6.5	1.4	13	117	5.5	0.09	0.5	1.0	B	TOPO VALLEY
20	17	40	28.8	36-27.0	121- 4.3	5.5	0.8	7	134	5.6	0.09	0.8	2.0	B	TOPO VALLEY
21	6	17	26.0	36-35.7	121-12.8	1.8	1.6	12	79	3.1	0.06	0.3	0.3	A	BICKMORE CANYON
21	6	32	25.9	36-32.9	121-11.1	7.4	0.9	8	88	2.9	0.05	0.3	0.6	A	BICKMORE CANYON
21	7	1	6.8	36-35.4	121-13.1	3.8	2.4	20	68	3.1	0.13	0.5	0.5	A	BICKMORE CANYON
21	7	49	49.7	36-38.6	121-17.2	6.1	0.9	9	60	4.8	0.04	0.2	0.9	A	PAICINES
21	8	15	46.0	36-27.0	121- 4.3	6.3	1.7	17	113	5.7	0.12	0.5	1.2	B	TOPO VALLEY
21	11	30	5.8	37-33.1	121-48.2	6.1	0.6	9	80	6.8	0.11	0.7	0.8	B	LA COSTA VALLEY
21	19	1	10.5	36-27.0	121- 3.7	5.9	1.3	16	82	4.9	0.13	0.5	1.3	A	TOPO VALLEY
21	22	40	5.8	36-37.6	121-16.2	6.3	1.4	13	54	3.3	0.09	0.4	1.2	A	PAICINES
22	2	47	1.1	35-43.9	121-37.8	5.6	2.2	16	268	57.0	0.15	1.3	0.9	C	***OFFSHORE - SAN SIMEON***
22	5	27	21.7	36-22.3	120-58.8	7.2	1.2	13	107	6.8	0.14	0.7	1.5	B	LONDAK
22	6	44	53.7	36-36.4	121-14.7	5.7	1.1	12	61	3.3	0.04	0.2	0.5	A	BICKMORE CANYON
22	11	29	36.3	36-35.3	121-13.2	5.0	1.8	18	65	3.0	0.10	0.3	0.5	A	BICKMORE CANYON
22	15	11	31.2	37-52.6	121-58.1	0.1	1.4	8	121	6.8	0.15	0.7	1.3	B	CLAYTON
22	17	54	0.8	36-27.3	121- 4.0	8.6	2.0	24	81	5.4	0.18	0.6	1.0	B	TOPO VALLEY
22	19	5	48.2	37-52.3	121-58.3	0.7	2.0	12	64	5.1	0.17	0.5	0.8	B	DIABLO
22	20	12	54.3	36-29.1	121-30.3	3.6	1.2	9	180	12.2	0.03	0.2	0.2	B	RANA CREEK
22	20	48	28.5	36-51.6	121-18.6	6.8	1.9	24	104	2.7	0.11	0.4	1.0	B	TRES PINOS
22	21	55	15.9	37-49.9	121-46.1	12.0	1.3	11	210	3.8	0.12	1.3	1.2	C	TASSAJARA
22	23	14	28.8	37- 4.3	121-29.1	5.1	2.5	38	51	4.3	0.14	0.4	0.4	A	GILROY HOT SPRINGS
22	23	46	38.1	37-52.9	121-57.7	4.3	2.0	9	67	4.2	0.19	1.1	0.7	B	CLAYTON
23	1	45	4.8	37-52.5	121-58.0	3.9	1.8	8	62	4.7	0.18	1.1	0.7	B	DIABLO
23	2	19	30.5	37-52.8	121-57.9	3.8	1.9	12	66	4.6	0.27	1.1	0.7	B	CLAYTON
23	2	54	19.2	36-13.5	120-49.8	9.7	2.2	21	107	3.3	0.25	1.1	1.1	B	MONARCH PEAK
23	4	26	44.1	37- 4.5	121-29.1	5.0	2.4	40	52	4.1	0.16	0.4	0.5	B	GILROY HOT SPRINGS
23	6	15	32.9	36-27.8	121- 4.7	8.1	1.8	21	78	5.2	0.15	0.6	1.0	B	TOPO VALLEY

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
OCT	23	10	0	46.8	36-55.7	121-25.4	7.7	0.9	12	74	6.5	0.09	0.5	1.3	A	SAN FELIPE
	23	18	6	30.9	36-48.8	121-32.3	4.6	1.1	16	45	3.6	0.13	0.6	1.3	A	SAN JUAN BAUTISTA
	24	2	21	42.3	36-36.1	121- 5.1	15.2	1.5	12	91	5.5	0.06	0.4	0.5	B	SAN BENITO
	24	3	18	53.4	36-36.1	121- 6.1	13.3	2.4	19	130	6.7	0.16	0.8	0.6	B	SAN BENITO
	24	3	42	41.2	36-36.1	121- 5.3	15.0	1.1	10	168	5.8	0.08	0.7	0.6	B	SAN BENITO
	24	4	11	4.2	36-42.4	121-21.7	4.0	2.4	17	49	1.7	0.18	0.7	0.8	B	PAICINES
	24	7	40	10.8	36-48.8	121-32.1	4.7	1.0	14	93	3.9	0.12	0.5	1.0	B	SAN JUAN BAUTISTA
	24	13	20	19.9	36-33.7	121- 5.0	10.3	1.3	10	70	5.8	0.10	0.6	1.3	A	SAN BENITO
	24	15	3	26.1	36-38.3	121-16.0	9.1	1.4	11	68	3.1	0.09	0.4	1.2	A	PAICINES
	24	15	3	42.7	36-28.1	121- 4.9	9.0	2.2	18	107	4.7	0.12	0.5	0.9	B	TOPO VALLEY
24	19	31	43.1	36-37.2	121-15.7	5.3	1.8	14	57	3.0	0.07	0.3	0.8	A	MT JOHNSON	
24	22	43	56.0	36-36.3	121- 5.1	16.0	1.4	8	146	5.6	0.04	0.5	0.5	B	SAN BENITO	
24	23	53	3.7	36-37.2	121-15.7	6.7	1.4	9	57	2.9	0.04	0.3	0.5	A	MT JOHNSON	
25	1	1	12.1	36- 1.0	120-52.5	12.4	2.3	16	172	17.3	0.14	0.9	0.6	B	SAN ARDO	
25	6	40	31.0	36-34.3	121-12.5	7.5	2.1	16	67	1.8	0.09	0.4	0.7	A	BICKMORE CANYON	
25	8	30	49.7	36-34.3	121-12.7	7.6	0.9	9	68	2.0	0.03	0.2	0.3	A	BICKMORE CANYON	
25	10	1	26.6	36-34.5	121-12.7	7.8	2.4	27	67	2.0	0.15	0.4	0.9	A	BICKMORE CANYON	
25	10	2	1.8	36-34.6	121-12.9	5.7	2.2	14	67	2.3	0.06	0.3	0.3	A	BICKMORE CANYON	
25	10	31	13.0	37-52.7	121-58.0	3.9	1.6	9	65	4.6	0.16	0.9	0.6	B	CLAYTON	
25	10	32	24.2	37-52.7	121-57.5	4.8	1.5	8	63	3.8	0.08	0.5	0.4	A	CLAYTON	
25	12	48	37.9	37-32.0	121-48.3	6.7	1.0	8	79	6.0	0.22	1.6	2.3	B	LA COSTA VALLEY	
25	14	8	2.8	37-52.8	121-57.6	4.0	1.4	8	65	4.1	0.10	0.6	0.4	A	CLAYTON	
25	14	20	1.5	37-29.5	121-27.3	5.2	1.4	9	255	17.2	0.18	3.4	1.0	D	MT BOARDMAN	
25	14	28	51.7	37-29.2	121-27.7	4.9	1.4	10	213	16.5	0.19	2.3	0.9	C	MT BOARDMAN	
25	15	2	27.8	37-33.0	121-50.8	4.9	0.8	9	72	3.8	0.18	1.1	0.8	B	LA COSTA VALLEY	
25	19	25	10.1	36-37.5	121-16.4	4.5	0.9	9	63	3.8	0.03	0.1	0.6	A	PAICINES	
25	22	47	19.2	37-33.3	121-50.8	5.0	1.1	13	74	4.3	0.20	0.9	0.7	B	LA COSTA VALLEY	
26	1	57	25.7	36-48.2	121-32.2	6.3	0.6	12	61	3.4	0.13	0.7	1.2	A	SAN JUAN BAUTISTA	
26	3	18	2.9	36-26.4	121- 2.3	9.1	0.3	8	128	2.5	0.12	1.0	1.8	B	TOPO VALLEY	
26	3	24	21.3	36-31.3	121- 8.1	11.0	0.6	7	91	5.5	0.04	0.4	0.9	B	BICKMORE CANYON	
26	6	0	58.4	36-36.4	121- 5.8	14.8	0.6	7	161	6.0	0.02	0.2	0.2	B	SAN BENITO	
26	7	52	43.0	36-16.9	120-52.3	4.0	1.2	7	125	6.4	0.18	2.3	3.0	B	HEPSEDAK PEAK	
26	10	23	30.1	36-48.4	121-29.9	1.8	0.4	8	99	5.9	0.09	1.1	1.2	B	HOLLISTER	
26	12	4	10.2	36-40.0	121-20.1	5.7	2.4	26	61	4.9	0.14	0.4	0.6	A	PAICINES	
26	12	8	30.8	36-40.3	121-19.8	5.2	1.6	16	63	4.3	0.07	0.3	0.4	A	PAICINES	
26	14	9	31.6	36-12.6	121-43.0	7.7	1.5	12	296	39.7	0.08	1.0	4.7	C	PARTINGTON RIDGE	
26	14	43	6.9	36-37.6	121-16.7	6.5	1.1	13	62	4.1	0.07	0.3	0.9	A	PAICINES	
26	15	1	19.3	36-22.3	120-59.4	11.3	0.6	7	113	6.3	0.09	1.0	1.8	B	LONDAK	
26	16	3	15.1	36-37.8	121-16.0	4.2	1.5	11	65	3.0	0.10	0.5	1.3	A	PAICINES	
26	19	34	53.7	36-54.5	121- 0.1	5.5	2.2	19	223	20.6	0.11	1.0	4.0	C	LOS BANOS VALLEY	
26	21	29	18.8	37-14.3	121-38.0	7.3	1.2	12	88	4.1	0.08	0.4	0.8	A	MORGAN HILL	
27	1	24	59.2	36-37.5	121-15.9	5.0	1.4	10	64	3.1	0.06	0.3	1.1	A	MT JOHNSON	
27	7	12	10.6	36-48.3	121-24.7	4.7	0.9	12	70	5.3	0.12	0.6	1.0	B	HOLLISTER	
27	8	30	39.6	36-40.0	121-19.6	0.7	0.7	8	72	5.0	0.10	0.6	0.6	A	PAICINES	
27	8	41	28.4	37-37.0	121-39.5	7.5	1.3	12	155	3.1	0.15	1.0	1.5	C	MENDENHALL SPRINGS	

CENTRAL CALIFORNIA EARTHQUAKES---FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
OCT	27	9	0	43.3	36-27.8	121- 4.3	3.6	1.6	12	80	5.1	0.15	0.7	3.8	B	TOPO VALLEY
	27	13	1	33.3	36-31.5	121- 8.8	10.3	1.1	9	87	6.6	0.05	0.4	0.5	A	BICKMORE CANYON
	28	0	27	25.5	36-34.0	121-11.9	7.3	2.3	23	67	1.3	0.15	0.5	1.0	A	BICKMORE CANYON
	28	3	40	56.3	36-25.8	121- 2.4	3.2	0.9	10	117	2.1	0.10	0.6	0.7	B	TOPO VALLEY
	28	3	52	31.1	36-55.1	121-28.5	4.8	1.3	21	56	2.8	0.05	0.3	0.4	A	SAN FELIPE
	28	3	58	24.9	36-47.2	121-30.5	6.2	2.1	31	42	4.0	0.15	0.4	0.5	A	SAN JUAN BAUTISTA
	28	4	12	22.8	36-37.8	121-15.7	4.1	1.5	12	56	2.7	0.07	0.3	0.7	A	PAICINES
	28	4	15	33.5	36-36.5	121-14.7	5.7	2.7	28	61	3.2	0.13	0.4	0.5	A	BICKMORE CANYON
	28	4	19	11.1	37-43.5	121-52.7	11.1	1.6	13	76	3.8	0.10	0.5	1.0	A	DUBLIN
	28	4	23	36.8	37-43.6	121-52.5	11.3	1.6	13	75	3.5	0.12	0.6	1.1	A	LIVERMORE
	28	4	54	56.0	36-57.4	121-38.8	5.8	1.3	14	84	3.2	0.08	0.3	0.4	A	WATSONVILLE EAST
	28	4	56	32.8	36-36.4	121-14.7	6.1	1.9	18	61	3.2	0.06	0.2	0.5	A	BICKMORE CANYON
	28	6	2	15.0	37-43.5	121-52.9	11.6	1.2	12	77	4.1	0.09	0.5	0.9	A	DUBLIN
	28	6	36	47.4	37-43.6	121-52.8	11.8	1.5	13	50	3.9	0.09	0.5	0.9	A	DUBLIN
	28	6	39	51.7	36-35.1	121- 7.3	10.1	0.8	7	137	6.1	0.05	0.6	1.1	B	SAN BENITO
	28	7	3	11.0	36-37.8	121-16.7	5.6	0.8	9	53	10.0	0.04	0.2	0.9	B	PAICINES
	28	7	27	49.2	37-43.6	121-53.1	11.4	2.1	22	47	4.4	0.14	0.5	0.8	A	DUBLIN
	28	9	26	48.3	36-27.1	121- 4.6	5.8	0.9	12	110	6.1	0.11	0.6	1.5	B	TOPO VALLEY
	28	13	29	49.8	36-37.3	121-14.6	6.5	0.8	8	110	1.8	0.05	0.4	0.7	B	BICKMORE CANYON
	28	14	52	18.4	36-22.4	120-58.9	7.9	1.4	13	108	6.4	0.15	0.8	1.6	B	LONOK
	28	16	7	38.3	36-33.7	121-11.7	6.2	2.0	15	80	1.6	0.08	0.3	0.7	A	BICKMORE CANYON
	28	16	8	24.8	37-44.3	121-51.3	9.7	1.5	12	88	1.9	0.07	0.3	0.7	A	LIVERMORE
	28	16	10	13.4	37-44.3	121-51.2	9.1	1.0	10	91	1.8	0.08	0.5	1.0	B	LIVERMORE
	28	16	10	54.4	36-33.8	121-11.5	6.2	1.3	12	66	1.4	0.06	0.3	0.5	A	BICKMORE CANYON
	28	21	23	2.7	37-25.5	121-45.6	4.5	0.7	6	133	4.5	0.04	0.5	0.3	B	CALAVERAS RESERVOIR
	28	22	3	25.7	37-25.9	121-46.2	5.8	1.9	21	81	3.3	0.15	0.5	0.6	B	CALAVERAS RESERVOIR
	29	1	40	7.4	36-40.4	121-20.6	4.5	0.5	8	93	4.0	0.05	0.4	0.9	B	PAICINES
	29	2	41	28.9	35-54.4	120-32.9	11.8	2.1	14	174	7.9	0.08	0.8	0.5	B	STOCKDALE MTN
	29	3	59	4.0	36-31.7	121- 6.1	11.8	0.8	7	129	3.0	0.07	0.8	1.5	B	SAN BENITO
	29	4	8	54.9	36-29.2	121- 6.7	10.3	0.8	9	77	4.1	0.09	0.7	1.4	A	TOPO VALLEY
	29	4	48	29.9	35-53.9	120-33.1	11.2	2.0	14	178	8.7	0.07	0.7	0.5	B	STOCKDALE MTN
	29	4	56	3.0	35-54.5	120-32.5	12.3	1.1	7	172	7.3	0.05	1.2	0.7	C	STOCKDALE MTN
	29	5	27	20.6	37-22.1	121-41.8	8.8	0.7	14	86	5.3	0.13	0.6	1.5	A	LICK OBSERVATORY
	29	13	38	37.3	38-32.7	122-17.3	12.0	1.7	8	215	24.6	0.14	1.6	1.9	C	CHILES VALLEY
	29	15	50	50.3	36-26.9	121- 3.0	8.1	1.2	9	125	4.0	0.11	0.9	1.5	B	TOPO VALLEY
	29	16	41	37.8	36-57.5	121-37.1	4.6	1.0	8	78	3.1	0.05	0.3	0.7	A	CHITTENDEN
	30	1	56	7.7	37-22.0	121-39.4	8.8	1.3	11	96	3.0	0.15	0.8	1.5	B	LICK OBSERVATORY
	30	8	46	52.1	36-34.2	121-12.4	6.8	1.2	12	68	1.7	0.05	0.2	0.5	A	BICKMORE CANYON
	30	11	7	22.0	37-46.2	122-10.0	6.0	1.3	12	77	1.5	0.09	0.5	0.5	A	OAKLAND EAST
	30	13	21	16.0	36-29.1	121- 6.0	3.3	1.8	16	78	3.5	0.12	0.5	0.5	A	TOPO VALLEY
	30	14	7	53.2	37-51.6	122- 0.3	1.7	2.0	23	55	7.0	0.16	0.5	0.4	B	LAS TRAMPAS RIDGE
	30	16	51	55.7	36-58.6	121-38.7	6.0	2.7	36	40	5.2	0.14	0.3	0.4	A	WATSONVILLE EAST
	30	23	27	53.7	36- 0.6	120-36.6	5.0	2.0	14	149	14.2	0.22	1.8	1.4	C	SMITH MOUNTAIN
	31	0	29	18.7	36-27.6	121- 4.0	2.0	1.1	10	120	5.5	0.12	0.6	0.7	B	TOPO VALLEY
	31	7	35	33.5	36-30.2	121- 7.2	3.0	0.5	8	96	4.1	0.14	0.9	1.1	B	SAN BENITO

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
OCT	31	12	23	7.8	36-59.5	121-38.9	2.3	1.1	9	91	6.0	0.06	0.3	0.2	B	WATSONVILLE EAST
	31	15	54	16.8	37-13.4	121-43.2	5.0	3.5R	42	69	5.7	0.18	0.5	0.3	B	MORGAN HILL
	31	15	56	33.5	37-13.5	121-43.4	5.4	1.3	15	125	5.8	0.15	0.6	0.6	B	MORGAN HILL
	31	16	52	20.0	37-13.7	121-43.3	5.3	1.4	17	123	5.4	0.09	0.4	0.3	B	MORGAN HILL
	31	17	6	1.7	36-34.2	121-11.6	2.7	1.7	10	81	0.7	0.06	0.3	0.2	A	BICKMORE CANYON
	31	17	22	2.8	37-13.6	121-43.4	5.4	1.2	9	125	5.6	0.11	0.6	0.5	B	MORGAN HILL
	31	18	11	42.5	37-13.8	121-42.9	6.7	0.9	8	85	4.9	0.05	0.3	1.1	A	MORGAN HILL
	31	18	24	21.2	36-36.6	121-14.9	5.3	2.1	21	60	3.2	0.13	0.4	0.6	A	BICKMORE CANYON
	31	18	51	42.1	36-33.7	121-11.0	3.0	1.9	13	64	1.7	0.07	0.3	0.4	A	BICKMORE CANYON
	31	21	47	37.1	37-13.3	121-43.3	5.9	1.0	9	89	5.9	0.10	0.5	0.8	A	MORGAN HILL
NOV	31	21	58	22.1	36-47.7	121-22.8	3.4	0.9	11	62	7.3	0.08	0.4	0.6	B	HOLLISTER
	1	0	37	24.2	36-29.1	121- 6.5	1.4	1.2	11	84	4.0	0.15	0.8	0.9	A	TOPO VALLEY
	1	1	8	31.0	36-27.0	121- 3.5	6.8	1.2	10	115	4.6	0.09	0.7	1.2	B	TOPO VALLEY
	1	4	48	13.3	37-21.1	121-35.7	4.2	0.8	11	100	5.5	0.27	1.4	1.5	B	ISABEL VALLEY
	1	11	4	52.3	37-13.4	121-43.5	5.1	0.6	11	92	6.0	0.09	0.4	0.4	B	MORGAN HILL
	1	19	7	1.8	36-27.5	121- 4.5	5.8	1.1	12	80	5.8	0.09	0.5	1.2	A	TOPO VALLEY
	1	19	7	15.5	36-27.3	121- 4.7	4.3	0.7	9	120	6.0	0.11	0.8	2.8	B	TOPO VALLEY
	1	21	46	37.0	36-30.7	121- 8.7	8.3	0.9	9	91	6.3	0.08	0.5	1.1	B	BICKMORE CANYON
	1	22	56	1.7	36-25.9	121- 2.7	5.6	1.3	12	85	2.5	0.05	0.5	0.8	A	TOPO VALLEY
	1	23	8	11.6	36-19.1	120-54.9	3.3	1.1	6	99	1.3	0.10	1.1	1.2	B	LCNOAK
	1	23	44	49.4	37-20.5	121-41.0	8.1	0.5	8	83	3.8	0.13	0.9	1.9	A	LICK OBSERVATORY
	2	0	25	4.6	36-27.4	121- 4.6	4.9	0.6	10	111	5.9	0.09	0.6	1.7	B	TOPO VALLEY
	2	1	23	32.4	36-54.2	121-29.3	4.9	1.6	22	60	2.3	0.09	0.3	0.7	A	SAN FELIPE
	2	2	45	23.6	37-13.7	121-43.6	5.4	0.6	9	93	5.8	0.14	0.7	0.6	B	MORGAN HILL
	2	4	19	39.4	36-26.5	121- 3.7	5.8	0.6	11	116	4.4	0.06	0.3	0.7	B	TOPO VALLEY
	2	13	19	45.2	36-44.1	121- 8.5	7.4	2.3	26	165	8.3	0.11	0.4	1.0	B	CHERRY PEAK
	2	13	50	14.1	36-30.9	121- 8.0	9.6	0.6	8	90	5.3	0.07	0.6	1.4	A	BICKMORE CANYON
	2	13	52	46.3	37-13.9	121-43.2	6.9	0.5	7	87	5.0	0.06	0.4	1.4	A	MORGAN HILL
	2	14	12	33.8	36-44.3	121- 7.8	7.9	1.4	11	151	9.0	0.06	0.5	0.7	B	CHERRY PEAK
	2	14	34	47.5	37-29.7	121-49.5	5.1	1.6	19	66	4.9	0.18	0.7	0.6	B	CALAVERAS RESERVOIR
	2	21	31	48.9	37-32.1	121-55.6	5.2	0.3	8	150	5.2	0.11	0.9	0.8	B	NILES
	2	21	32	24.0	37-13.6	121-43.7	4.9	1.1	10	95	6.0	0.09	0.5	0.4	B	MORGAN HILL
	2	23	38	20.1	37-52.5	121-57.3	5.0	1.8	9	60	3.6	0.13	0.7	0.6	A	CLAYTON
	3	0	23	8.3	37-52.7	121-58.0	4.0	1.6	8	65	4.6	0.20	1.3	0.9	B	CLAYTON
	3	0	23	10.2	37-52.8	121-56.8	5.2	2.0	7	117	5.1	0.12	0.8	0.7	B	CLAYTON
	3	0	53	8.7	37-40.4	121-57.4	2.4	0.7	9	65	4.6	0.13	0.6	0.5	A	DUBLIN
	3	1	36	40.6	37-52.9	121-58.0	4.2	1.8	8	68	4.7	0.15	1.0	0.6	B	CLAYTON
	3	1	39	7.7	37-52.8	121-57.7	3.9	1.7	7	66	6.1	0.07	0.4	0.3	B	CLAYTON
	3	2	8	27.6	36-31.5	121- 5.0	8.2	1.1	8	129	1.8	0.12	0.9	1.6	B	SAN BENITO
	3	5	17	59.6	37-13.6	121-43.5	5.6	0.5	8	93	5.8	0.12	0.9	0.7	B	MORGAN HILL
	3	11	29	16.7	37-13.2	122- 7.6	9.7	1.4	16	105	2.4	0.09	0.5	0.6	B	BIG BASIN
	3	12	7	44.8	37-13.5	121-43.4	5.2	1.7	17	65	5.7	0.10	0.3	0.3	B	MORGAN HILL
	3	12	10	59.5	37-13.5	121-43.3	5.2	0.8	8	90	5.6	0.10	0.6	0.5	B	MORGAN HILL
	3	13	57	5.1	37-53.0	121-57.9	2.7	1.5	9	69	4.5	0.12	0.5	0.6	A	CLAYTON
	3	15	26	3.9	37-38.3	122- 1.6	4.3	0.8	8	91	6.3	0.15	0.8	0.8	B	HAYWARD

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
NCV	4	6	58	22.6	37- 0.8	121-27.3	3.7	0.4	7	78	2.8	0.05	0.4	1.1 A	GILROY HCT SPRINGS
	4	14	29	20.9	36- 1.2	120-35.7	2.0	1.6	7	153	13.7	0.15	2.2	1.1 C	SMITH MOUNTAIN
	4	21	17	26.7	36-33.4	121-11.0	4.5	0.8	6	84	2.0	0.02	0.2	0.2 A	BICKMORE CANYON
	4	23	31	35.9	36-39.3	121-17.8	4.0	1.3	10	64	6.1	0.10	0.6	0.5 B	PAICINES
	5	0	25	9.6	36-36.2	121-14.0	2.3	1.4	12	64	3.5	0.08	0.3	0.4 A	BICKMORE CANYON
	5	2	56	6.9	36-35.8	121-13.9	4.7	1.0	10	64	4.3	0.04	0.2	0.5 A	BICKMORE CANYON
	5	13	21	2.6	36-34.8	121- 6.5	9.1	1.2	12	68	7.3	0.13	0.7	1.4 A	SAN BENITO
	5	14	52	10.6	36-12.9	120-48.4	3.9	1.3	10	59	1.1	0.20	1.1	1.1 B	MONARCH PEAK
	5	17	40	49.5	37-33.4	121-51.7	9.9	0.5	7	79	4.0	0.12	1.1	2.7 B	LA COSTA VALLEY
	5	18	27	51.2	36-31.0	121- 7.5	8.4	1.3	10	90	4.5	0.09	0.5	1.0 B	BICKMORE CANYON
	5	20	0	46.4	36-12.3	120-48.2	6.1	2.3	12	136	1.3	0.22	1.6	1.8 C	MONARCH PEAK
	5	21	20	46.9	36-42.4	121-22.3	1.7	1.9	15	50	2.5	0.14	0.6	0.5 A	PAICINES
	5	21	32	50.4	37- 8.7	121-34.6	6.7	0.8	8	102	4.6	0.02	0.2	0.4 B	MT SIZER
	6	3	45	19.8	36-57.7	121-26.9	3.5	0.9	11	64	4.8	0.08	0.5	0.4 A	SAN FELIPE
	6	4	39	5.8	36-41.8	121-13.0	10.1	1.6	10	109	5.2	0.04	0.3	0.7 B	CHERRY PEAK
	6	6	21	42.5	37- 7.0	121-32.2	5.4	1.0	12	106	8.3	0.12	0.7	2.4 B	GILROY
	6	9	1	30.9	36-41.3	121-20.2	3.3	1.7	10	66	2.3	0.08	0.5	0.4 A	PAICINES
	6	9	43	40.7	36-31.0	121- 7.3	8.2	0.9	8	93	4.3	0.09	0.6	1.3 B	SAN BENITO
	6	11	56	34.3	37-16.7	121-39.2	9.3	1.2	12	74	2.9	0.08	0.4	0.7 A	LICK OBSERVATORY
	6	16	28	24.4	37-51.9	121-58.5	0.8	1.3	8	65	8.1	0.06	0.3	0.5 B	DIABLO
	6	16	37	27.2	36-37.3	121-15.0	5.7	1.3	8	101	2.1	0.03	0.3	0.4 B	MT JOHNSON
	6	18	14	10.5	36-38.0	121-16.4	1.0	1.3	8	115	3.7	0.04	0.2	0.2 B	PAICINES
	6	21	17	28.8	36-32.3	121-10.0	7.8	2.3	19	63	4.6	0.12	0.4	0.9 A	BICKMORE CANYON
	7	1	17	28.5	35-59.6	120-34.9	2.8	2.1	11	149	11.1	0.13	1.2	0.6 C	STOCKDALE MTN
	7	2	1	33.2	36-31.3	121- 6.4	9.8	0.7	8	137	3.1	0.12	1.1	1.6 C	SAN BENITO
	7	4	38	55.5	36-36.1	121-14.0	0.9	0.7	8	75	3.7	0.02	0.2	0.2 A	BICKMORE CANYON
	7	7	4	26.1	36-57.4	121-25.1	6.3	1.0	13	79	3.4	0.11	0.5	1.3 A	SAN FELIPE
	7	10	35	34.5	36-36.4	121-14.6	4.3	1.0	12	61	3.3	0.06	0.3	0.6 A	BICKMORE CANYON
	7	11	15	11.9	36-36.3	121-14.6	5.3	2.2	27	62	3.5	0.14	0.4	0.6 A	BICKMORE CANYON
	7	13	49	17.7	35-46.8	121-19.0	2.9	2.6	19	198	36.2	0.15	1.9	0.7 C	BURRO MTN
	7	15	21	27.8	37-22.6	121-43.4	2.4	1.2	11	83	3.5	0.09	0.5	0.4 A	MT DAY
	7	16	47	4.4	36-48.5	121-31.9	6.2	2.2	33	39	3.9	0.15	0.4	0.4 B	SAN JUAN BAUTISTA
	7	18	34	47.5	36-48.6	121-32.0	5.1	2.1	27	60	3.9	0.16	0.5	0.6 B	SAN JUAN BAUTISTA
	7	18	54	5.1	36-48.4	121-32.4	6.0	1.4	13	80	3.1	0.16	1.0	1.7 B	SAN JUAN BAUTISTA
	7	18	56	40.6	36-48.0	121-34.0	7.1	0.4	8	91	0.7	0.16	1.5	1.8 B	SAN JUAN BAUTISTA
	7	21	34	9.2	36-42.4	121-21.8	3.5	1.0	8	76	1.8	0.05	0.4	0.3 A	PAICINES
	8	2	42	5.8	36-50.0	120- 1.1	5.0	2.3	23	138	32.8	0.22	0.9	1.0 C	BIOLA
	8	5	25	47.5	36-30.7	121- 7.7	6.7	1.3	9	68	4.8	0.09	0.6	1.2 A	BICKMORE CANYON
	8	5	36	22.1	36-50.5	121-33.6	3.2	0.7	10	70	5.1	0.07	0.4	0.3 B	SAN JUAN BAUTISTA
	8	9	30	23.6	36-50.2	121-34.0	6.2	0.1	8	80	4.3	0.09	0.8	0.8 A	SAN JUAN BAUTISTA
	8	10	5	17.3	37-18.3	121-39.4	7.6	1.2	13	104	4.3	0.10	0.4	1.0 B	LICK OBSERVATORY
	8	16	26	13.1	36-37.8	121-16.9	5.8	1.9	19	63	4.4	0.12	0.4	0.9 A	PAICINES
	8	16	59	40.2	36-34.0	121- 6.8	7.8	1.1	9	82	6.9	0.13	0.9	2.1 B	SAN BENITO
	8	17	5	10.8	36-26.6	121- 3.2	8.6	0.5	7	136	3.8	0.12	1.2	2.0 C	TOPO VALLEY
	8	21	16	58.6	36-34.6	121-12.4	4.8	1.1	10	71	1.6	0.03	0.2	0.3 A	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
NCV	8	21	23	39.1	36-43.1	121-21.9	3.0	1.5	11	80	2.3	0.09	0.5	0.5	A	PAICINES
	8	22	5	19.7	36-58.9	121-38.7	3.0	0.9	12	63	5.4	0.09	0.5	0.4	B	WATSONVILLE EAST
	9	1	23	13.6	37-32.7	121-47.4	5.2	0.9	10	79	7.6	0.09	0.5	0.5	B	LA COSTA VALLEY
	9	1	40	41.7	36-30.8	121- 7.6	0.1	1.1	7	90	4.6	0.06	0.5	0.7	A	BICKMORE CANYON
	9	3	51	59.6	36-47.9	121-29.4	5.0	0.8	11	95	5.0	0.06	0.3	0.6	B	HOLLISTER
	9	4	48	29.5	36-25.9	120-43.1	8.9	1.5	8	229	11.1	0.13	2.4	3.7	C	IDRIA
	9	8	21	7.3	37-32.3	121-48.6	6.6	1.9	19	75	5.8	0.17	0.7	0.7	B	LA COSTA VALLEY
	9	13	18	44.4	36-57.2	121-26.5	5.4	0.7	9	91	4.9	0.04	0.3	0.8	B	SAN FELIPE
	9	13	29	58.3	36-30.9	121- 8.3	8.6	0.6	8	89	5.6	0.08	0.6	1.4	A	BICKMORE CANYON
	9	13	43	20.5	36-29.1	121- 6.1	3.2	1.5	13	75	3.7	0.10	0.5	0.7	A	TOPO VALLEY
	9	16	27	7.0	37-52.9	121-58.0	5.3	1.8	8	67	4.6	0.08	0.6	0.4	A	CLAYTON
	9	17	13	42.0	36-31.3	121- 6.8	11.1	2.7	25	58	3.6	0.11	0.4	0.4	A	SAN BENITO
	9	17	16	0.6	36-32.3	121- 9.5	5.7	1.5	13	77	5.0	0.10	0.4	1.1	A	BICKMORE CANYON
	9	17	40	40.5	36-41.0	121-20.7	4.9	1.8	17	61	2.8	0.12	0.4	1.0	A	PAICINES
	9	18	11	0.3	36-59.3	121-38.4	1.9	0.8	12	73	6.0	0.11	0.4	0.3	B	WATSONVILLE EAST
	9	19	24	40.6	36-40.3	121-19.9	1.5	0.4	8	107	4.2	0.04	0.3	0.2	B	PAICINES
	9	23	33	43.3	36-36.3	121-14.6	6.4	2.5	20	62	3.5	0.13	0.4	0.9	A	BICKMORE CANYON
	9	23	35	35.2	37-52.5	121-58.3	2.9	0.8	7	120	5.2	0.13	0.8	0.8	B	CLAYTON
	9	23	38	18.5	37-52.3	121-58.3	2.1	1.9	10	64	5.1	0.15	0.6	0.9	B	DIABLO
	10	0	25	23.3	36-29.6	121- 7.0	2.1	1.0	7	103	4.1	0.07	0.5	0.4	B	TOPO VALLEY
	10	0	27	46.3	36-29.5	121- 6.6	7.3	2.0	13	59	3.7	0.07	0.4	0.7	A	TOPO VALLEY
	10	0	36	46.8	36-29.4	121- 6.5	5.7	0.4	6	105	3.6	0.04	0.5	1.0	B	TOPO VALLEY
	10	1	38	40.8	36-31.4	121- 6.5	9.5	1.1	10	84	3.4	0.09	0.6	1.1	A	SAN BENITO
	10	3	51	17.4	36-19.2	120-54.6	3.5	0.7	7	94	1.8	0.09	0.7	1.2	B	LONOK
	10	5	5	28.3	36-36.2	121-14.4	4.6	1.2	11	62	3.5	0.05	0.3	0.6	A	BICKMORE CANYON
	10	10	26	5.6	37-25.3	121-40.7	5.1	0.7	8	111	9.7	0.10	0.7	0.8	B	MT DAY
	10	18	12	27.7	36-29.5	121- 6.4	6.3	0.6	9	104	3.5	0.07	0.5	1.0	B	TOPO VALLEY
	10	18	42	59.5	36-37.1	121-14.5	9.2	0.6	8	114	2.2	0.06	0.5	1.0	B	BICKMORE CANYON
	10	20	23	18.4	36-29.6	121- 6.6	5.2	0.4	6	103	3.6	0.04	0.4	0.9	B	TOPO VALLEY
	10	21	10	31.8	36-21.3	120-58.8	5.9	0.6	7	100	6.4	0.09	0.9	2.2	B	LONOK
	10	21	25	3.8	36-33.1	121-11.0	9.0	0.5	7	170	2.7	0.06	0.7	1.0	B	BICKMORE CANYON
	11	1	33	11.6	36-30.8	121- 8.0	7.1	1.5	12	84	5.2	0.10	0.5	1.1	A	BICKMORE CANYON
	11	2	40	6.1	36-56.8	121-36.8	2.8	0.6	8	83	2.9	0.06	0.3	0.2	A	CHITTENDEN
	11	5	0	20.4	37-24.2	121-39.2	6.2	1.7	19	115	6.9	0.14	0.6	2.6	B	MT DAY
	11	6	19	47.4	36-32.8	121-10.7	8.0	1.9	17	65	3.3	0.08	0.3	0.7	A	BICKMORE CANYON
	11	7	16	28.0	36-32.5	121-10.5	8.3	1.0	10	94	3.8	0.05	0.3	0.6	B	BICKMORE CANYON
	11	8	13	23.2	36-37.8	121-15.8	5.7	1.9	16	54	2.7	0.07	0.3	0.3	A	PAICINES
	11	11	11	12.6	36-37.7	121-16.5	5.2	1.4	13	54	3.8	0.10	0.4	1.0	A	PAICINES
	11	18	17	37.8	36-49.1	121-23.7	8.2	2.3	23	39	4.3	0.11	0.4	1.0	A	HOLLISTER
	12	0	21	21.3	36-46.8	121-29.1	6.3	1.8	19	45	2.9	0.18	0.6	0.9	B	HOLLISTER
	12	0	27	3.3	36-35.0	121- 9.9	6.5	1.4	10	100	2.4	0.08	0.6	0.8	B	BICKMORE CANYON
	12	1	35	40.0	36-27.6	121- 4.6	6.2	1.5	18	78	5.5	0.10	0.4	0.9	A	TOPO VALLEY
	12	3	55	57.1	38-13.3	122- 9.1	2.2	1.6	8	126	8.5	0.11	0.8	0.7	B	CORDELIA
	12	10	33	11.3	36-38.0	121-16.7	5.2	1.3	11	55	4.1	0.04	0.2	0.5	A	PAICINES
	12	15	32	55.5	36-27.8	121- 5.2	7.4	0.6	9	102	5.3	0.12	0.8	1.8	B	TOPO VALLEY

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	C	QUADRANGLE
NCV	12	19	36	58.9	37-13.6	121-43.4	5.9	1.4	12	90	5.6	0.10	0.4	0.7	B	MORGAN HILL
	12	20	14	0.6	36-35.7	121- 7.9	9.7	0.8	8	108	5.6	0.18	1.6	2.7	B	BICKMORE CANYON
	13	1	39	22.2	36-41.1	120-52.8	6.0	1.4	13	232	9.5	0.15	2.2	2.3	C	CERRO COLORADO
	13	5	2	5.3	38-14.1	122-10.8	4.4	1.8	17	76	5.9	0.14	0.7	0.8	B	CORDELIA
	13	9	41	17.3	37-25.5	121-40.0	2.7	0.6	8	117	10.7	0.10	0.8	0.8	B	MT DAY
	13	10	45	6.7	36-46.4	121-16.0	4.9	1.0	11	93	8.3	0.07	0.3	0.5	B	TRES PINOS
	13	14	26	13.9	36-32.7	121-10.8	7.5	1.1	14	71	3.4	0.04	0.2	0.4	A	BICKMORE CANYON
	13	16	5	22.8	37-22.9	121-43.6	4.6	1.2	13	83	3.7	0.15	0.7	0.5	A	MT DAY
	13	16	55	39.0	36-33.3	121-10.8	3.4	1.4	13	68	2.4	0.06	0.3	0.3	A	BICKMORE CANYON
	13	20	50	24.1	36-34.6	121-12.8	6.0	2.1	22	51	2.2	0.09	0.3	0.4	A	BICKMORE CANYON
	13	20	51	13.3	36-34.5	121-12.5	6.1	2.0	17	67	1.8	0.08	0.3	0.3	A	BICKMORE CANYON
	13	23	10	0.1	36-31.0	121- 8.5	5.7	3.3	32	55	6.0	0.17	0.5	0.7	B	BICKMORE CANYON
	13	23	16	42.7	36-30.5	121- 8.5	4.6	0.8	7	94	6.0	0.11	1.0	3.0	B	BICKMORE CANYON
	14	2	7	18.7	36-56.9	121-26.1	5.8	3.0	35	74	4.9	0.12	0.3	1.0	A	SAN FELIPE
	14	2	36	47.3	36-49.3	121-23.3	9.5	1.4	17	62	4.1	0.07	0.3	0.7	A	HOLLISTER
	14	6	23	45.3	36-31.7	121- 5.5	7.8	1.8	16	72	2.5	0.14	0.6	1.1	A	SAN BENITO
	14	6	46	52.1	36-31.5	121- 5.0	9.5	1.4	12	101	1.9	0.12	0.6	1.0	B	SAN BENITO
	14	6	47	17.8	36-31.4	121- 5.8	8.5	0.6	7	129	2.4	0.16	1.5	2.8	B	SAN BENITO
	14	7	1	22.4	36-31.3	121- 5.1	9.0	1.1	7	93	1.5	0.12	1.2	2.1	B	SAN BENITO
	14	8	12	41.8	36-56.5	121-26.0	4.0	1.1	11	73	5.5	0.08	0.4	0.4	E	SAN FELIPE
	14	8	47	22.8	37-38.6	122-10.8	12.4	2.1	29	66	12.0	0.12	0.4	0.4	A	SAN LEANDRO
	14	9	16	17.4	37-53.4	121-58.0	9.0	1.4	12	75	4.6	0.12	0.7	1.4	A	CLAYTON
	14	11	52	17.4	36-31.3	121- 5.3	8.4	0.5	7	138	1.8	0.12	1.3	2.2	C	SAN BENITO
	14	11	53	13.0	36-34.6	121-12.0	3.2	1.9	16	64	1.0	0.11	0.4	0.4	A	BICKMORE CANYON
	14	12	12	28.0	36-56.7	121-26.0	4.4	1.6	21	74	5.1	0.13	0.4	0.7	B	SAN FELIPE
	14	12	33	14.2	36-56.7	121-26.0	4.5	1.3	20	74	5.1	0.11	0.3	0.5	B	SAN FELIPE
	14	12	46	33.7	36-56.7	121-25.9	5.9	3.0	35	75	5.0	0.12	0.3	0.9	A	SAN FELIPE
	14	12	49	43.7	36-56.4	121-25.7	4.6	0.9	15	75	5.3	0.14	0.6	0.9	B	SAN FELIPE
	14	12	51	42.6	36-56.6	121-26.1	4.7	1.0	16	73	5.3	0.12	0.4	1.8	B	SAN FELIPE
	14	18	5	31.8	36-31.5	121- 5.3	8.9	1.3	8	127	2.0	0.09	0.7	1.2	B	SAN BENITO
	14	18	22	53.1	36-50.8	121-34.2	4.5	2.1	21	57	4.6	0.16	0.5	0.7	B	SAN JUAN BAUTISTA
	14	20	21	59.0	36-35.8	121-14.3	5.9	1.5	13	64	4.3	0.06	0.3	0.6	A	BICKMORE CANYON
	15	0	1	25.0	36-32.9	121-10.9	8.1	1.5	13	70	3.1	0.07	0.3	0.6	A	BICKMORE CANYON
	15	1	6	28.5	37-23.4	121-43.5	7.7	1.6	19	86	4.3	0.13	0.5	0.9	A	MT DAY
	15	4	46	43.3	36-28.9	121- 6.0	1.9	2.0	14	80	4.0	0.12	0.5	0.4	A	TOPO VALLEY
	15	8	39	51.3	36-28.2	121- 5.2	7.8	1.6	11	102	4.5	0.09	0.6	1.1	B	TOPO VALLEY
	15	12	37	58.5	35-47.1	121- 7.7	11.3	1.8	13	245	33.4	0.14	2.4	1.0	C	BURNETT PEAK
	15	17	32	58.4	36-31.6	121- 5.3	8.8	0.9	12	143	2.2	0.14	0.9	1.2	B	SAN BENITO
	15	20	22	39.0	38-31.5	122-43.6	8.4	1.3	9	126	2.8	0.12	1.7	3.0	B	MARK WEST SPRINGS
	15	21	7	5.5	37-57.2	122- 0.2	5.0	1.8	10	111	8.5	0.15	0.9	0.6	B	WALNUT CREEK
	15	21	22	11.4	37-13.7	121-43.3	5.3	2.7	32	66	5.5	0.11	0.3	0.3	B	MORGAN HILL
	15	21	52	22.0	37-13.7	121-43.5	5.3	1.3	11	125	5.7	0.10	0.5	0.4	B	MORGAN HILL
	16	2	37	42.4	36-25.1	120-48.1	13.7	1.9	11	236	5.2	0.13	1.5	0.9	C	HERNANDEZ RESERVOIR
	16	3	29	58.8	36-26.4	121- 2.7	0.1	1.5	7	136	3.0	0.07	0.7	0.7	B	TOPO VALLEY
	16	3	32	51.1	37- 8.3	121-49.0	7.1	1.1	8	177	3.4	0.06	0.8	2.4	C	SANTA TERESA HILLS

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
NCV	16	4	18	1.9	38-21.5	122-36.2	5.3	1.3	6	85	7.4	0.04	0.3	1.7	B	GLEN ELLEN
	16	6	18	14.3	36-34.1	121- 6.5	10.6	0.8	8	147	7.1	0.08	0.8	1.5	B	SAN BENITO
	16	7	44	34.1	36-49.2	121-32.6	4.6	0.5	8	130	3.6	0.08	0.7	1.3	B	SAN JUAN BAUTISTA
	16	12	8	35.2	37-32.5	121-51.1	5.8	2.3	28	64	2.8	0.20	0.6	0.6	B	LA COSTA VALLEY
	16	12	36	17.3	36-13.2	120-48.4	2.4	0.9	8	122	1.2	0.11	0.8	1.4	B	MONARCH PEAK
	16	13	52	36.7	37-33.0	121-50.8	5.2	1.0	16	72	3.8	0.16	0.7	0.6	B	LA COSTA VALLEY
	16	21	51	35.7	36-53.7	121-30.4	5.4	0.9	11	71	2.4	0.08	0.4	0.8	A	CHITTENDEN
	17	1	5	33.4	36-49.9	121-17.5	7.8	0.6	11	88	6.0	0.08	0.5	1.1	A	TRES PINOS
	17	1	9	28.3	36-48.3	121-31.4	5.1	2.0	28	37	4.6	0.14	0.4	0.6	A	SAN JUAN BAUTISTA
	17	4	46	53.4	37-32.9	121-50.9	4.7	0.5	9	71	3.7	0.17	1.0	0.8	B	LA COSTA VALLEY
	17	4	47	44.0	36- 0.9	120-36.8	7.2	1.6	13	135	14.2	0.23	1.7	2.5	C	SMITH MOUNTAIN
	17	5	27	13.4	36-54.8	121-28.8	6.1	0.7	13	81	2.5	0.06	0.3	0.6	A	SAN FELIPE
	17	7	35	20.3	36-39.2	121-24.3	11.8	1.0	19	70	8.3	0.09	0.3	0.8	A	MT HARLAN
	17	7	41	13.5	36-39.1	121-24.4	12.6	1.0	16	70	8.5	0.10	0.5	1.0	A	MT HARLAN
	17	8	30	13.0	37-14.1	121-43.1	6.8	0.5	7	86	4.8	0.05	0.4	1.3	A	MORGAN HILL
	17	9	4	54.6	36-30.9	121- 8.4	5.8	0.9	8	90	5.8	0.11	0.7	2.1	B	BICKMORE CANYON
	17	9	22	38.2	35-59.5	120-52.6	10.4	1.9	19	170	19.0	0.15	0.8	0.9	B	HAMES VALLEY
	17	9	25	39.5	36-40.3	121-18.7	2.9	0.8	9	68	5.0	0.07	0.5	0.5	A	PAICINES
	17	11	21	47.2	36-57.0	121-35.6	3.7	0.7	8	72	1.2	0.06	0.4	0.6	A	CHITTENDEN
	17	12	58	45.5	36-54.6	121-28.6	6.2	1.2	20	61	2.9	0.09	0.3	0.8	A	SAN FELIPE
	17	13	25	16.0	36-31.2	121- 7.3	9.4	1.0	11	87	4.2	0.10	0.6	1.2	A	SAN BENITO
	17	14	56	28.0	36-36.7	121-15.0	5.1	0.8	12	60	3.0	0.05	0.2	0.5	A	MT JOHNSON
	17	16	15	9.2	36-39.1	121-24.1	12.5	0.1	9	75	8.2	0.04	0.4	0.7	A	MT HARLAN
	17	16	41	59.9	36-39.2	121-24.2	13.6	0.5	11	73	8.2	0.08	0.5	1.0	A	MT HARLAN
	17	16	42	55.9	36-39.1	121-24.1	13.5	0.3	10	74	8.3	0.06	0.4	0.9	A	MT HARLAN
	17	21	50	58.6	36-33.3	121-10.5	3.2	2.5	25	63	2.5	0.13	0.4	0.4	A	BICKMORE CANYON
	17	23	10	51.1	36-37.7	121-16.1	5.2	1.5	16	54	3.3	0.07	0.3	0.6	A	PAICINES
	18	1	46	22.0	36-56.4	121-25.9	4.0	0.9	13	74	5.4	0.12	0.5	0.8	B	SAN FELIPE
	18	3	45	12.4	36-38.1	121-17.0	5.6	1.3	12	55	4.6	0.07	0.3	0.8	A	PAICINES
	18	5	8	36.8	37-10.8	121-41.1	9.8	1.0	13	75	5.8	0.09	0.5	0.9	A	MORGAN HILL
	18	5	55	15.7	36-32.8	121- 4.4	12.2	1.1	12	74	4.1	0.11	0.6	1.3	A	SAN BENITO
	18	9	52	44.4	36-27.2	121- 4.5	5.6	1.0	13	111	6.1	0.08	0.4	1.1	B	TOPO VALLEY
	18	11	41	5.5	37-32.9	121-50.8	4.8	0.4	13	72	3.7	0.18	0.8	0.6	B	LA COSTA VALLEY
	18	11	41	9.6	37-32.7	121-50.6	4.7	1.1	13	71	3.6	0.23	1.1	0.8	B	LA COSTA VALLEY
	18	11	58	42.2	36-23.6	121- 0.1	5.6	0.4	7	119	3.8	0.06	0.5	0.9	B	TOPO VALLEY
	18	12	45	14.7	37-32.7	121-50.8	5.0	1.6	20	66	3.3	0.20	0.7	0.6	B	LA COSTA VALLEY
	18	13	41	55.9	37-13.8	121-43.4	5.4	1.3	18	62	5.6	0.11	0.4	0.4	B	MORGAN HILL
	18	14	53	2.5	36-37.1	121-16.1	7.1	1.2	13	58	3.6	0.06	0.3	0.6	A	MT JOHNSON
	18	16	14	49.4	37-51.6	122-14.1	6.2	1.8	22	56	1.8	0.10	0.3	0.3	A	OAKLAND EAST
	18	16	43	13.0	36-22.1	120-57.5	2.3	0.9	6	122	6.6	0.09	0.8	1.1	B	LONOKAK
	18	18	21	0.3	36-39.0	121-15.7	9.6	0.8	10	66	3.0	0.05	0.3	0.6	A	PAICINES
	18	20	14	43.3	36-33.3	121-11.5	8.3	0.5	7	163	2.2	0.07	0.7	1.0	B	BICKMORE CANYON
	18	20	52	23.1	36-31.3	121- 6.7	8.8	0.9	8	107	3.5	0.07	0.5	1.1	B	SAN BENITO
	18	21	15	34.9	36-47.9	121-10.7	2.5	0.8	6	192	5.0	0.05	1.3	0.4	C	QUIEN SARE VALLEY
	18	22	0	48.7	37- 2.5	121-28.9	4.7	2.2	26	59	1.9	0.17	0.5	0.7	B	GILROY HOT SPRINGS

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
NCV	18	23	45	17.2	36-31.9	121- 6.4	12.2	0.9	10	79	3.7	0.05	0.4	0.7	A	SAN BENITO
	19	3	53	13.8	37-23.9	121-39.4	6.1	0.4	8	112	9.8	0.20	1.1	6.9	C	MT DAY
	19	4	51	27.7	37-39.8	122-27.9	5.9	1.5	11	175	3.0	0.11	1.0	0.6	B	SAN FRANCISCO SOUTH
	19	5	20	27.8	38-23.9	122-39.3	8.0	0.7	8	84	2.7	0.13	0.9	1.5	A	SANTA ROSA
	19	8	16	39.5	37- 2.5	121-28.8	5.2	1.9	27	60	1.9	0.14	0.4	0.6	A	GILROY HOT SPRINGS
	19	8	24	49.7	36-37.9	121-16.9	6.1	1.3	11	54	4.3	0.02	0.1	0.3	A	PAICINES
	19	8	26	52.9	36-32.3	121-10.2	7.1	1.5	15	76	4.5	0.08	0.3	0.7	A	BICKMORE CANYON
	19	14	36	9.5	36-39.3	121-24.1	12.2	0.2	12	76	8.0	0.09	0.5	0.7	A	MT HARLAN
	19	15	19	29.2	36-49.1	121-23.3	9.4	0.6	14	78	4.5	0.06	0.3	0.6	A	HOLLISTER
	19	16	37	11.3	37-59.0	122- 4.3	12.2	1.8	21	71	7.2	0.20	0.7	0.7	B	WALNUT CREEK
	19	16	38	23.6	37-38.9	122-10.5	12.3	0.8	12	96	12.2	0.11	0.6	0.6	B	SAN LEANDRO
	20	0	44	14.7	36-35.1	121-12.9	5.2	0.5	8	76	2.5	0.05	0.4	0.7	A	BICKMORE CANYON
	20	1	36	1.3	36-37.0	121-15.7	8.2	0.7	8	88	3.2	0.02	0.1	0.3	A	MT JOHNSON
	20	2	48	5.8	36-33.8	121- 9.1	10.3	0.7	7	107	3.6	0.05	0.5	0.9	B	BICKMORE CANYON
	20	3	11	37.8	36-36.2	121-14.4	5.4	1.1	11	62	3.6	0.07	0.4	0.7	A	BICKMORE CANYON
	20	7	59	54.1	37-42.7	121-59.3	6.5	0.8	9	122	7.2	0.05	0.3	0.3	B	DUBLIN
	20	8	1	36.3	37-42.7	121-59.1	6.4	0.5	8	120	9.1	0.03	0.3	0.2	B	DUBLIN
	20	10	2	14.3	36-27.3	121- 4.1	5.5	1.8	15	80	5.8	0.10	0.5	1.3	B	TOPO VALLEY
	20	10	15	57.6	36-27.3	121- 4.3	4.8	1.4	13	81	5.9	0.10	0.5	1.5	B	TOPO VALLEY
	20	11	31	16.1	36-38.5	121-16.8	3.3	1.8	15	59	4.3	0.11	0.5	0.5	A	PAICINES
	20	12	47	19.5	37- 4.4	121-29.5	6.9	0.8	16	72	4.7	0.11	0.5	0.9	A	GILROY HOT SPRINGS
	20	14	43	33.1	36-10.8	120-45.6	4.5	2.1	11	149	5.0	0.22	1.5	1.5	C	MONARCH PEAK
	20	16	31	56.6	37- 8.1	122-21.7	7.0	1.4	7	219	7.2	0.11	2.1	2.3	C	FRANKLIN POINT
	20	17	5	30.1	37-46.6	121-56.8	6.9	1.4	10	63	1.3	0.10	0.6	0.4	A	DIABLO
	20	18	18	47.9	36-41.0	121-18.4	5.7	1.9	14	96	4.4	0.09	0.4	1.0	B	PAICINES
	21	0	49	32.2	36-43.9	121-22.6	7.1	0.9	8	97	3.9	0.08	0.6	1.0	B	MT HARLAN
	21	4	37	55.8	36-34.8	121-13.4	7.3	1.0	10	87	3.1	0.04	0.3	0.5	A	BICKMORE CANYON
	21	4	38	60.0	36-32.7	121-10.9	7.4	1.3	10	81	3.4	0.09	0.5	1.0	A	BICKMORE CANYON
	21	5	11	38.4	37-20.7	122-12.8	11.8	0.7	10	104	1.3	0.03	0.2	0.3	B	MINDEGO HILL
	21	6	5	3.5	37-26.2	121-46.2	8.7	1.9	30	81	3.0	0.15	0.5	0.8	B	CALAVERAS RESERVOIR
	21	7	14	58.6	37-13.9	121-43.4	5.9	1.4	11	68	5.4	0.10	0.5	0.7	A	MORGAN HILL
	21	7	48	40.1	36-34.8	121-13.3	8.0	2.3	23	68	3.0	0.13	0.4	0.8	A	BICKMORE CANYON
	21	11	17	13.2	36-34.8	121-13.4	7.6	0.8	10	88	3.1	0.03	0.2	0.4	A	BICKMORE CANYON
	21	12	23	2.9	38-34.4	122-43.8	2.0	1.7	7	253	2.7	0.04	0.8	0.2	C	MARK WEST SPRINGS
	21	19	30	13.6	36-34.5	121-13.3	7.2	0.8	8	98	2.8	0.05	0.5	0.8	B	BICKMORE CANYON
	21	20	31	15.2	36-23.9	121- 1.1	6.6	1.2	12	98	2.9	0.11	0.6	1.1	B	TOPO VALLEY
	21	21	14	33.5	36-26.5	121- 3.5	7.7	0.7	8	126	4.1	0.07	0.6	1.2	B	TOPO VALLEY
	21	21	29	25.5	37- 2.6	121-28.3	8.9	0.6	11	67	2.3	0.12	0.7	1.2	A	GILROY HOT SPRINGS
	21	22	9	14.2	37-52.6	121-58.2	3.9	1.4	10	65	5.0	0.18	1.0	0.6	B	CLAYTON
	21	23	1	49.7	37-52.5	121-57.5	5.3	1.6	11	115	4.0	0.22	1.0	0.9	B	DIABLO
	21	23	30	10.2	36-34.7	121-13.3	8.6	2.0	22	68	2.9	0.11	0.4	0.7	A	BICKMORE CANYON
	21	23	55	59.4	37- 2.9	121-29.4	3.4	1.0	12	79	2.6	0.12	0.5	0.4	A	GILROY HOT SPRINGS
	22	5	9	35.5	36-48.2	121-31.6	4.5	0.4	10	84	4.2	0.10	0.7	0.9	A	SAN JUAN BAUTISTA
	22	8	13	35.5	36-39.3	121-24.0	13.0	0.2	8	76	7.9	0.07	0.6	1.6	A	MT HARLAN
	22	12	7	46.4	36-35.2	121- 8.4	10.2	0.8	8	120	4.6	0.14	1.1	2.8	B	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
NCV	22	23	22	48.6	36-47.8	121-31.8	7.4	1.3	14	73	3.9	0.11	0.5	1.0	A	SAN JUAN BAUTISTA
	23	5	2	13.0	36-32.4	121-10.4	7.6	1.4	10	74	4.1	0.05	0.3	0.6	A	BICKMORE CANYON
	23	8	19	27.0	37-26.5	121-47.1	6.0	1.0	11	77	1.7	0.16	0.9	1.5	B	CALAVERAS RESERVOIR
	23	10	19	31.9	37-13.5	121-43.3	5.5	2.8	39	66	5.7	0.13	0.3	0.4	B	MORGAN HILL
	23	11	6	58.9	36-10.3	120-45.4	7.2	1.9	10	126	5.9	0.15	1.1	1.8	B	MONARCH PEAK
	23	14	52	24.4	36-47.3	121-18.1	10.9	0.8	8	82	9.4	0.07	0.6	1.7	A	TRES PINOS
	23	19	33	31.5	36-48.9	121-30.8	2.1	1.2	10	74	5.8	0.05	0.2	0.2	B	SAN JUAN BAUTISTA
	23	23	0	16.9	36-47.0	121-17.0	6.1	1.4	18	81	8.5	0.11	0.5	2.3	B	TRES PINOS
	24	3	36	11.1	36-37.1	121-10.0	4.7	1.3	8	92	5.1	0.10	0.7	1.2	B	BICKMORE CANYON
	24	4	3	49.6	37- 0.0	121-39.5	8.0	0.9	14	51	6.0	0.11	0.5	1.5	A	MT MADONNA
	24	4	47	15.3	36-57.4	121-35.6	7.5	0.6	8	78	0.9	0.05	0.3	0.6	A	CHITTENDEN
	24	8	24	35.6	36-37.0	121- 9.8	5.4	1.2	9	61	5.1	0.09	0.5	0.4	A	BICKMORE CANYON
24	12	52	26.5	37- 6.8	121-31.3	3.6	0.7	8	109	7.0	0.05	0.3	1.1	B	GILROY	
24	13	10	6.3	36-49.6	121-23.6	8.3	1.1	16	45	3.5	0.14	0.5	1.3	A	HOLLISTER	
24	15	48	53.4	37-58.7	122- 3.3	13.2	1.8	19	70	7.4	0.24	0.9	0.8	B	WALNUT CREEK	
24	16	52	23.1	38-26.2	122-30.0	5.9	1.8	12	139	8.1	0.09	0.5	1.3	B	KENWOOD	
24	18	10	33.8	36-32.0	121- 9.4	4.9	2.3	21	61	5.5	0.12	0.4	0.6	B	BICKMORE CANYON	
24	19	33	14.0	36-52.8	121-15.9	6.5	0.9	14	144	3.9	0.12	0.6	1.1	B	THREE SISTERS	
24	22	19	11.8	37- 6.2	121-29.6	9.2	1.0	14	109	4.2	0.12	0.6	1.2	B	GILROY HOT SPRINGS	
24	22	42	31.1	36-49.3	121-23.4	8.8	1.0	16	47	4.1	0.09	0.4	0.8	A	HOLLISTER	
25	1	30	51.4	36-28.6	121- 6.2	6.0	1.5	15	81	4.4	0.09	0.4	1.0	A	TOPO VALLEY	
25	6	8	9.0	36-43.8	120-58.8	5.3	1.2	13	221	12.8	0.11	0.9	0.6	C	CERRO COLORADO	
25	6	39	4.0	36-55.6	121-32.5	5.4	2.0	25	59	3.2	0.09	0.2	0.4	A	CHITTENDEN	
25	7	41	1.5	36-55.7	121-32.3	5.0	0.8	10	89	3.1	0.09	0.6	1.1	A	CHITTENDEN	
25	9	7	2.5	36-56.4	121-25.9	3.8	0.9	12	73	5.6	0.12	0.5	0.8	B	SAN FELIPE	
25	9	25	57.2	36-25.3	121- 2.4	7.2	0.8	9	90	2.1	0.08	0.6	0.9	B	TOPO VALLEY	
25	9	27	13.1	36-25.4	121- 2.2	6.7	1.5	13	85	1.6	0.07	0.4	0.7	A	TOPO VALLEY	
25	11	20	31.5	36-39.8	121-19.0	4.5	2.4	34	63	5.6	0.14	0.4	0.4	B	PAICINES	
25	11	40	12.0	36-39.7	121-19.0	5.1	2.8	30	63	5.7	0.15	0.4	0.6	B	PAICINES	
25	13	40	25.1	36-47.7	121-30.8	4.1	1.1	13	70	5.0	0.10	0.6	0.6	A	SAN JUAN BAUTISTA	
25	14	10	51.7	36-48.3	121-30.8	3.4	0.9	13	62	5.4	0.11	0.7	0.7	B	SAN JUAN BAUTISTA	
25	14	11	24.9	36-48.0	121-31.0	4.6	2.0	28	44	5.1	0.18	0.5	0.6	B	SAN JUAN BAUTISTA	
25	15	6	18.4	37-33.9	122-24.2	5.6	1.2	13	157	7.5	0.11	0.7	1.0	B	MONTARA MTN	
25	22	57	46.2	36-29.5	121- 6.5	3.6	2.0	15	62	3.6	0.10	0.4	0.5	A	TOPO VALLEY	
25	23	4	30.0	36-29.6	121- 6.3	3.0	1.2	7	101	3.2	0.09	0.7	0.8	B	TOPO VALLEY	
25	23	34	11.4	36-29.6	121- 6.4	3.1	0.9	8	102	3.4	0.09	0.6	0.7	B	TOPO VALLEY	
26	0	18	31.9	36-40.7	121-18.1	5.9	2.4	23	71	5.1	0.09	0.3	0.4	A	PAICINES	
26	0	33	12.3	36-29.5	121- 6.2	3.4	0.9	7	103	3.4	0.08	0.6	0.6	B	TOPO VALLEY	
26	0	58	38.6	36-29.5	121- 6.5	3.4	2.3	11	61	3.5	0.10	0.5	0.6	A	TOPO VALLEY	
26	3	25	12.7	36-29.3	121- 6.7	2.2	1.3	10	70	4.1	0.07	0.4	0.3	A	TOPO VALLEY	
26	6	18	5.8	36-31.4	121- 5.3	8.3	0.8	9	127	1.8	0.11	0.8	1.4	B	SAN BENITO	
26	6	38	42.1	36-36.9	121- 9.6	6.2	0.9	8	99	5.0	0.05	0.4	0.7	B	BICKMORE CANYON	
26	10	7	38.4	36-31.2	121- 7.2	10.7	0.5	7	99	4.1	0.06	0.5	1.3	B	SAN BENITO	
26	11	44	34.9	36-48.8	121-32.7	6.5	0.9	13	53	3.1	0.12	0.6	0.7	A	SAN JUAN BAUTISTA	
26	12	39	7.0	36-30.9	121- 7.7	9.0	0.5	7	90	4.7	0.08	0.8	1.6	A	BICKMORE CANYON	

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	FRH	ERZ	Q	QUADRANGLE	
NCV	26	14	38	45.9	37-52.1	121-58.8	1.7	2.0	16	59	6.0	0.20	0.6	0.6	B	DIABLO
	26	15	54	13.5	38- 0.5	121-51.5	10.7	1.5	10	140	11.5	0.13	1.1	2.6	C	ANTIOCH NORTH
	26	19	14	35.0	38-29.8	122-43.1	5.1	2.9	13	103	5.9	0.11	0.6	0.7	E	SANTA ROSA
	26	19	17	54.5	38-29.9	122-43.0	5.2	3.0	14	101	5.9	0.20	1.0	1.1	B	SANTA ROSA
	26	19	20	35.7	38-30.2	122-43.2	7.3	2.8	13	107	5.2	0.17	1.1	1.8	B	MARK WEST SPRINGS
	26	20	36	32.0	37- 2.8	121-28.8	8.0	1.8	28	60	2.4	0.11	0.3	0.7	A	GILROY HOT SPRINGS
	26	23	5	30.1	36-37.8	121-16.2	10.0	1.3	9	68	3.4	0.09	0.7	1.3	A	PAICINES
	26	23	30	42.0	36-33.1	121-10.6	3.8	1.1	8	87	2.7	0.03	0.3	0.2	A	BICKMORE CANYON
	26	23	38	56.9	36-56.6	121-33.9	5.5	2.9	35	56	2.3	0.10	0.2	0.4	A	CHITTENDEN
	26	23	58	59.7	36-56.4	121-33.6	6.4	0.5	8	82	2.9	0.05	0.4	0.7	A	CHITTENDEN
	27	5	14	50.8	36-32.2	121- 6.1	11.0	1.7	12	76	3.8	0.09	0.5	1.0	A	SAN BENITO
	27	5	51	5.8	36-49.0	121-32.6	4.4	0.7	8	87	3.5	0.08	0.7	0.7	A	SAN JUAN BAUTISTA
	27	18	24	15.8	36-37.8	121-16.5	4.7	1.8	14	64	3.8	0.09	0.4	0.9	A	PAICINES
	27	22	7	23.3	36- 0.5	120-35.8	3.9	1.7	10	148	13.1	0.16	1.5	1.1	C	SMITH MOUNTAIN
	27	22	14	9.8	37-10.5	121-36.3	4.9	1.1	15	97	2.2	0.07	0.3	0.4	B	MT SIZER
	27	22	56	39.0	36-34.5	121-12.3	3.3	1.5	9	71	1.4	0.12	0.8	0.7	A	BICKMORE CANYON
	28	2	59	37.4	36-37.6	121-16.0	8.9	0.8	9	65	3.1	0.03	0.2	0.4	A	PAICINES
	28	3	45	57.7	36-42.5	121-21.8	2.1	1.6	11	76	1.8	0.21	1.1	0.9	B	PAICINES
	28	4	58	2.5	36-28.5	121- 5.1	1.9	1.0	6	120	4.0	0.02	0.2	0.1	B	TOPO VALLEY
	28	7	22	26.7	35-59.5	120-35.5	0.8	1.6	7	136	11.1	0.08	0.9	0.9	B	STOCKDALE MTN
	28	13	42	9.4	36-58.4	121-41.8	8.1	0.9	10	95	2.3	0.07	0.6	1.0	B	WATSONVILLE EAST
	28	16	10	45.3	36-25.3	121- 1.9	6.7	1.5	13	69	1.2	0.10	0.5	0.9	A	TOPO VALLEY
	28	16	42	6.6	36-23.9	121- 0.7	6.2	0.7	8	110	3.0	0.08	0.7	1.3	B	TOPO VALLEY
	28	21	15	13.6	37-15.9	121-57.6	4.0	1.2	10	65	13.1	0.11	0.8	0.9	B	SAN JOSE WEST
	28	21	24	27.0	36-11.3	120-46.2	4.0	1.4	7	131	3.7	0.10	0.9	1.7	B	MONARCH PEAK
	28	22	28	43.4	36-33.3	121-11.0	6.3	1.9	14	65	2.3	0.09	0.3	0.8	A	BICKMORE CANYON
	28	22	44	4.3	36-37.5	121- 9.8	6.4	2.0	16	67	4.5	0.15	0.6	1.5	B	CHERRY PEAK
	28	23	45	20.1	36-37.0	121- 9.9	5.6	1.4	13	62	5.1	0.13	0.6	1.4	A	BICKMORE CANYON
	29	2	0	55.3	36-37.1	121-10.5	5.3	1.5	8	88	5.0	0.10	0.7	1.4	A	BICKMORE CANYON
	29	5	2	52.5	37- 1.1	121-27.9	4.8	2.0	27	66	1.9	0.14	0.4	0.5	A	GILROY HOT SPRINGS
	29	7	54	38.3	36-33.2	121-10.8	5.0	1.9	18	65	2.6	0.12	0.4	0.6	A	BICKMORE CANYON
	29	8	36	30.7	36-25.1	121- 2.2	6.4	1.3	11	87	1.8	0.08	0.5	0.8	A	TOPO VALLEY
	29	12	5	28.0	36-47.6	121-31.4	6.0	0.4	12	91	4.6	0.16	0.9	1.1	B	SAN JUAN BAUTISTA
	29	12	44	43.0	36-15.9	120-51.5	3.9	0.9	8	117	7.9	0.12	0.9	4.5	B	HEPSEDAM PEAK
	29	13	4	50.2	37-14.0	121-43.2	6.1	0.5	8	88	5.0	0.06	0.4	1.6	A	MORGAN HILL
	29	15	0	7.3	36-31.3	121- 7.9	9.8	1.7	12	86	5.2	0.10	0.5	0.8	A	BICKMORE CANYON
	29	16	19	56.3	36-47.8	121-31.1	6.2	2.0	27	44	4.9	0.14	0.4	0.5	A	SAN JUAN BAUTISTA
	29	17	18	17.0	36-31.2	121- 7.8	9.5	1.4	10	86	5.0	0.11	0.6	1.3	A	BICKMORE CANYON
	29	21	17	9.5	37-30.0	121-52.4	4.7	2.4	37	56	2.4	0.22	0.5	0.5	B	CALAVERAS RESERVOIR
	30	0	3	22.7	37-46.3	122- 8.3	6.4	1.1	13	73	3.5	0.10	0.5	0.5	A	OAKLAND EAST
	30	2	42	24.3	36-16.7	120-52.1	0.2	0.6	6	113	6.8	0.04	0.3	0.4	B	HEPSEDAM PEAK
	30	4	11	43.3	36-31.2	121- 8.3	9.4	0.6	8	87	5.8	0.06	0.5	1.0	A	BICKMORE CANYON
	30	5	0	4.0	37- 9.8	121-32.3	4.4	1.1	18	118	7.7	0.13	0.5	0.7	B	MT SIZER
	30	7	16	51.2	35-59.7	120-36.4	4.6	1.7	14	141	13.2	0.17	1.5	0.9	C	STOCKDALE MTN
	30	7	58	4.3	36-34.7	121- 4.1	12.9	1.4	12	84	4.2	0.07	0.4	0.4	A	SAN BENITO

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NC	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
NOV	30	10	43	40.2	35-59.5	120-52.5	11.1	1.7	15	170	19.0	0.13	0.8	0.8 B	WUNPOST
	30	11	44	36.3	36-33.3	121- 9.4	12.4	0.8	11	99	3.6	0.07	0.4	0.9 B	BICKMORE CANYON
	30	12	6	56.4	36-52.2	121-20.7	5.3	0.4	13	85	3.6	0.05	0.2	0.6 A	TRES PINOS
	30	12	23	56.0	36-33.3	121- 9.4	12.1	1.5	17	59	3.7	0.10	0.4	0.8 A	BICKMORE CANYON
	30	12	43	5.6	36-30.4	121- 7.6	3.1	0.2	9	95	4.7	0.10	0.7	0.7 B	BICKMORE CANYON
	30	13	40	38.5	37-34.9	121-47.4	6.6	2.2	23	86	9.8	0.17	0.6	0.8 B	LA COSTA VALLEY
	30	13	42	26.7	36-54.6	121-28.5	7.5	2.0	33	55	3.1	0.11	0.3	0.6 A	SAN FELIPE
	30	14	46	26.0	35-50.0	120-36.0	1.4	1.8	10	133	12.9	0.09	0.9	0.8 B	SMITH MOUNTAIN
	30	14	53	43.0	37-34.9	121-47.2	3.5	1.2	16	98	10.0	0.20	0.8	0.9 C	LA COSTA VALLEY
	30	14	54	1.5	37-35.0	121-47.2	6.4	1.2	16	100	10.2	0.22	1.0	1.3 B	LA COSTA VALLEY
	30	16	31	36.5	36-40.9	121-20.7	6.0	0.2	9	88	3.0	0.09	0.6	1.0 A	PAICINES
	30	17	46	18.3	37-34.9	121-47.1	6.6	0.8	9	99	10.1	0.19	1.2	1.5 B	LA COSTA VALLEY
	30	20	35	15.3	36-27.8	121- 4.7	6.9	1.5	18	78	5.3	0.10	0.4	0.9 A	TOPO VALLEY
	30	23	12	32.7	36-29.4	121- 7.0	2.0	1.1	8	71	4.3	0.09	0.6	0.5 A	TOPO VALLEY
DEC	1	2	26	15.2	37-30.0	121-41.8	6.1	0.9	9	112	10.5	0.09	0.5	1.0 B	MENDENHALL SPRINGS
	1	7	2	53.3	36-31.8	121- 9.4	6.9	3.0	34	61	5.8	0.16	0.4	0.8 B	BICKMORE CANYON
	1	7	4	48.9	36-31.9	121- 9.3	4.8	2.0	23	60	5.8	0.13	0.4	0.6 B	BICKMORE CANYON
	1	7	6	7.2	36-32.0	121- 9.4	5.7	0.4	8	89	5.5	0.07	0.5	1.1 A	BICKMORE CANYON
	1	7	13	14.1	36-31.9	121- 9.3	5.8	2.1	20	60	5.8	0.11	0.4	1.0 A	BICKMORE CANYON
	1	7	17	46.0	36-46.0	120-51.6	5.5	1.9	17	247	18.2	0.10	1.3	2.2 C	LAGUNA SECA RANCH
	1	7	22	50.2	36-31.9	121- 9.4	5.4	1.2	12	80	5.6	0.08	0.4	1.0 B	BICKMORE CANYON
	1	13	29	6.0	36-32.5	121-10.6	7.1	0.8	10	95	3.9	0.05	0.4	0.5 B	BICKMORE CANYON
	1	13	45	13.3	36-32.7	121-10.5	7.1	1.5	16	65	3.6	0.07	0.3	0.6 A	BICKMORE CANYON
	1	20	40	30.5	36-30.8	121- 6.4	9.8	1.2	10	89	2.8	0.10	0.6	1.2 A	SAN BENITO
	1	21	6	4.8	37-19.9	121-46.0	5.7	0.5	7	148	3.3	0.11	1.2	0.9 C	SAN JOSE EAST
	2	0	49	37.1	36-48.4	121-31.9	4.9	0.8	11	117	3.8	0.12	0.8	0.9 B	SAN JUAN BAUTISTA
	2	2	41	41.0	36-57.2	121-35.3	5.8	0.5	8	69	0.6	0.02	0.2	0.3 A	CHITTENDEN
	2	2	50	3.7	37-19.9	121-40.5	4.8	0.1	7	98	7.9	0.08	0.6	0.6 B	LICK OBSERVATORY
	2	3	17	43.6	36-28.9	121- 4.9	4.7	0.6	8	115	3.2	0.12	0.9	1.8 B	TOPO VALLEY
	2	3	30	14.6	36-28.3	121- 5.1	5.5	1.8	20	93	4.4	0.09	0.3	0.9 B	TOPO VALLEY
	2	7	37	20.4	36-28.6	121- 4.6	3.6	0.1	6	119	3.6	0.06	0.6	0.7 B	TOPO VALLEY
	2	7	45	52.3	36-31.9	121- 9.4	6.7	1.1	14	61	5.6	0.07	0.3	0.8 A	BICKMORE CANYON
	2	10	53	10.2	36-40.0	121-14.0	4.2	0.4	7	181	3.4	0.02	0.3	0.3 C	CHERRY PEAK
	2	12	37	37.9	36-31.1	121- 8.0	8.4	1.5	19	53	5.2	0.09	0.3	0.7 A	BICKMORE CANYON
	2	15	27	31.2	36-30.5	121- 7.4	11.1	0.7	10	93	4.3	0.05	0.4	0.7 B	SAN BENITO
	2	19	30	26.3	36-18.0	120-50.9	10.5	3.0	18	86	7.5	0.22	1.0	0.9 B	HEPSEDAM PEAK
	2	19	32	53.3	36-18.1	120-51.0	6.7	2.2	11	132	7.3	0.17	1.0	2.3 B	HEPSEDAM PEAK
	2	19	48	25.3	36-19.4	120-50.5	12.4	0.6	6	136	5.9	0.04	0.8	1.4 B	HEPSEDAM PEAK
	2	20	16	5.1	36-36.0	121-13.9	3.9	1.7	20	62	3.9	0.11	0.4	0.4 A	BICKMORE CANYON
	2	20	57	29.9	36-18.2	120-50.6	6.8	0.8	9	137	7.8	0.12	0.8	1.9 B	HEPSEDAM PEAK
	2	23	19	27.4	36-36.9	121-16.2	7.8	0.8	10	68	4.0	0.04	0.3	0.5 A	MT JOHNSON
	3	1	13	16.5	36-57.5	121-37.5	4.0	1.2	18	46	3.6	0.12	0.4	0.5 A	CHITTENDEN
	3	2	52	46.3	36-44.7	120-58.5	4.9	1.0	9	226	14.2	0.16	1.6	1.5 C	CERRO COLORADO
	3	3	21	12.8	36-31.3	121- 7.9	3.3	1.0	11	86	5.2	0.13	0.6	0.7 B	BICKMORE CANYON
	3	3	38	1.0	36-32.0	121- 9.5	9.1	0.3	7	148	5.2	0.07	0.7	1.3 B	BICKMORE CANYON

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
DEC	3	7	52	35.8	120-37.7	5.3	1.2	8	142	10.8	0.13	1.3	1.0	C	SLACK CANYON
	3	8	24	8.0	121- 5.6	1.6	1.8	14	88	3.5	0.11	0.4	0.4	A	TOPO VALLEY
	3	9	0	49.5	121- 6.3	2.9	0.7	8	217	13.4	0.14	1.9	0.8	C	LOS BANOS VALLEY
	3	10	24	33.9	121-34.2	5.0	0.6	8	112	4.1	0.06	0.5	0.8	B	CHITTENDEN
	3	10	26	6.9	121-34.4	5.0	1.0	13	66	3.9	0.10	0.5	0.5	A	CHITTENDEN
	3	12	23	12.8	121-24.7	7.7	1.7	26	64	4.0	0.12	0.3	0.9	A	SAN FELIPE
	3	21	14	43.6	121-10.4	7.3	1.2	12	73	3.7	0.07	0.3	0.7	A	BICKMORE CANYON
	3	21	46	28.7	121-11.5	6.3	0.7	9	78	1.2	0.03	0.2	0.3	A	BICKMORE CANYON
	3	23	5	16.9	121- 5.7	14.8	1.5	14	102	6.4	0.08	0.5	0.4	B	SAN BENITO
	3	23	17	23.0	121- 5.4	16.4	0.5	7	112	6.0	0.11	2.4	4.0	B	SAN BENITO
	4	1	44	9.0	121-11.5	5.5	2.3	21	65	1.2	0.09	0.3	0.4	A	BICKMORE CANYON
	4	2	1	9.8	120-50.3	2.1	1.8	12	119	4.9	0.19	1.0	0.8	B	MONARCH PEAK
	4	2	43	22.8	121-14.1	1.0	1.1	10	226	2.4	0.11	0.7	0.5	C	PACHECO PASS
	4	7	12	7.1	122-25.5	11.4	1.8	12	269	30.4	0.22	2.3	1.4	C	JERICHO VALLEY
	4	8	13	40.6	121- 0.8	8.3	0.8	11	132	5.7	0.14	0.8	1.9	B	SAN BENITO
	4	8	22	42.4	121-26.0	4.8	1.9	23	74	5.1	0.11	0.3	0.6	B	SAN FELIPE
	4	13	2	48.1	121-38.2	4.9	0.9	14	80	3.9	0.12	0.5	0.4	A	LICK OBSERVATORY
	4	13	35	16.6	121- 9.8	8.7	1.3	13	77	4.9	0.08	0.4	0.8	A	BICKMORE CANYON
	4	14	53	50.9	121-18.4	4.8	1.3	17	119	0.1	0.15	0.6	1.0	B	THREE SISTERS
	4	18	1	36.8	122- 3.8	12.4	1.7	17	68	7.3	0.22	1.0	0.9	B	WALNUT CREEK
	4	21	52	9.4	121- 3.3	6.8	2.3	17	105	5.3	0.11	0.5	0.9	B	TOPO VALLEY
	5	2	34	54.6	120-52.1	11.0	2.3	17	169	18.4	0.15	0.9	1.0	C	WUNPOST
	5	7	25	50.3	121-20.1	5.5	1.5	19	61	4.5	0.10	0.3	0.9	A	PAICINES
	5	9	26	49.6	121-19.8	5.9	1.2	14	63	4.3	0.10	0.4	0.9	A	PAICINES
	5	9	53	57.2	121- 3.0	6.2	0.8	10	107	5.1	0.12	0.8	1.6	B	TOPO VALLEY
	5	11	10	14.9	122-14.2	6.2	1.8	17	58	10.7	0.11	0.4	0.5	B	OAKLAND EAST
	5	12	49	3.6	121-15.9	4.1	1.2	10	64	2.9	0.09	0.4	1.0	A	PAICINES
	5	13	40	19.2	121-44.2	3.2	0.1	9	90	9.1	0.11	0.6	0.6	B	MORGAN HILL
	5	20	5	37.5	121- 7.1	8.1	1.1	11	77	6.7	0.16	0.9	2.0	B	SAN BENITO
	6	3	55	39.8	121-29.6	7.2	1.0	14	73	4.6	0.11	0.5	1.0	A	GILROY HOT SPRINGS
	6	5	21	36.1	121- 6.9	9.7	1.1	10	84	3.9	0.08	0.5	1.1	A	SAN BENITO
	6	8	3	9.0	121-21.8	9.7	2.6	35	54	7.2	0.14	0.4	0.7	A	TRES PINOS
	6	9	0	34.2	121-21.9	1.4	1.7	15	58	2.4	0.15	0.6	0.5	A	PAICINES
	6	15	26	22.0	121- 7.0	9.7	1.5	13	66	4.0	0.06	0.3	0.7	A	TOPO VALLEY
	6	21	59	54.2	121-25.7	5.2	1.4	15	75	5.7	0.13	0.5	2.0	B	SAN FELIPE
	7	0	8	32.3	121-23.4	5.9	1.3	18	62	2.2	0.08	0.3	0.7	A	HOLLISTER
	7	8	16	33.9	121-10.3	3.7	1.3	12	68	2.4	0.11	0.5	0.5	A	BICKMORE CANYON
	7	8	22	55.0	121-13.2	5.5	1.7	16	69	2.8	0.09	0.3	0.7	A	BICKMORE CANYON
	7	10	23	46.8	121-17.3	4.0	1.1	10	72	5.0	0.12	0.7	0.6	A	PAICINES
	7	10	59	28.4	120-46.0	2.6	1.7	13	215	7.8	0.13	1.2	0.5	C	HERNANDEZ RESERVOIR
	7	17	20	14.9	120-52.8	12.1	1.2	10	168	18.7	0.10	0.8	1.1	B	HAMES VALLEY
	7	20	26	1.3	121-15.4	4.8	1.3	11	57	2.7	0.04	0.2	0.6	A	MT JOHNSON
	8	0	40	52.9	121-10.9	3.6	1.4	12	66	1.7	0.07	0.3	0.3	A	BICKMORE CANYON
	8	5	39	19.9	120-52.5	11.8	1.2	11	169	18.7	0.10	0.7	0.9	B	HAMES VALLEY
	8	6	2	33.6	121-42.5	10.0	1.9	33	48	2.9	0.13	0.3	0.6	A	MT MADONNA

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
DEC	8	6	52	3.4	36-56.5	121-25.8	4.9	1.9	24	75	5.3	0.11	0.3	1.5	E	SAN FELIPE
	8	7	27	57.8	36- 2.7	120-38.8	5.3	1.9	12	137	9.7	0.25	1.9	1.6	C	SLACK CANYON
	8	10	46	52.2	37-40.3	121-37.7	14.4	1.7	12	182	8.5	0.15	1.3	0.6	C	ALTAMONT
	8	11	40	34.5	36-36.9	121- 9.8	5.7	1.1	9	61	5.1	0.06	0.4	0.7	A	BICKMORE CANYON
	8	11	47	44.5	37-40.9	121-37.5	10.3	2.0	16	182	9.8	0.23	1.6	1.5	C	ALTAMONT
	8	12	15	12.2	37-40.5	121-37.3	12.5	1.2	8	184	9.0	0.19	2.1	2.2	C	MIDWAY
	8	15	16	51.3	37- 2.5	121-28.6	8.6	0.7	12	68	1.8	0.10	0.5	0.9	A	GILROY HOT SPRINGS
	8	18	23	8.4	36-31.6	121- 6.1	8.6	1.0	10	81	3.0	0.11	0.7	1.2	A	SAN BENITO
	8	20	8	16.4	36-36.5	121-14.6	4.6	2.2	22	61	3.1	0.12	0.3	0.6	A	BICKMORE CANYON
	9	1	44	53.2	37- 0.4	121-42.2	10.4	1.2	14	69	3.3	0.07	0.4	0.7	A	MT MADONNA
	9	8	5	55.4	36-29.7	121- 6.9	2.2	1.3	12	67	4.0	0.10	0.4	0.3	A	TOPO VALLEY
	9	9	34	22.2	36-37.7	121-16.4	4.3	0.8	10	68	3.6	0.07	0.4	0.8	A	PAICINES
	9	11	57	18.4	36-46.5	121-31.6	8.3	1.6	25	59	4.0	0.17	0.5	1.0	B	SAN JUAN BAUTISTA
	9	15	4	4.1	36-37.8	121-16.3	4.1	1.1	11	53	3.5	0.06	0.3	0.8	A	PAICINES
	9	20	24	35.1	38-17.4	122-36.2	2.2	1.6	8	80	5.8	0.05	0.3	0.4	E	GLEN ELLEN
	9	22	15	38.3	37-39.9	122-30.5	8.1	2.1	21	167	4.4	0.14	0.7	0.8	B	***GULF OF THE FARALLONES***
	10	0	59	49.4	35-59.9	120-52.4	12.1	1.6	11	168	18.4	0.13	1.1	1.2	C	WUNPOST
	10	4	4	14.9	36-37.6	121-15.6	5.9	1.0	10	66	2.5	0.07	0.4	0.8	A	PAICINES
	10	5	4	15.8	36-35.6	120-51.2	5.2	1.1	11	244	8.4	0.16	2.2	1.3	C	PANOCHÉ
	10	7	33	33.9	36-36.3	120-51.0	6.9	2.4	25	212	8.4	0.18	1.1	1.8	C	PANOCHÉ
	10	8	4	40.1	36-49.4	121-23.8	8.3	0.6	13	72	3.7	0.15	0.7	1.6	A	HOLLISTER
	10	9	11	29.5	36-35.0	121-13.7	8.0	0.9	10	83	3.6	0.03	0.2	0.3	A	BICKMORE CANYON
	10	11	28	34.6	37-23.3	121-43.7	5.9	0.9	12	85	4.0	0.17	0.8	2.2	B	MT DAY
	10	13	59	3.2	36-26.8	121- 2.7	3.2	2.3	18	86	3.5	0.15	0.6	0.6	A	TOPO VALLEY
	10	18	16	16.0	37-24.1	121-44.0	4.4	0.4	8	110	5.1	0.09	0.7	0.4	B	MT DAY
	10	21	7	32.3	37-23.0	121-43.7	2.7	1.3	15	138	3.6	0.14	0.6	0.4	B	MT DAY
	11	2	3	7.2	37-37.9	122- 2.1	1.8	0.7	13	65	6.9	0.14	0.5	0.4	B	HAYWARD
	11	2	58	35.7	36-38.2	121-16.3	3.9	1.0	9	94	3.4	0.09	0.6	0.5	B	PAICINES
	11	9	5	47.7	36-37.6	121-16.1	4.2	0.9	12	55	3.2	0.06	0.3	0.7	A	PAICINES
	11	9	48	59.1	36-37.3	121-10.8	10.1	1.0	12	53	4.8	0.15	0.8	1.4	A	BICKMORE CANYON
	11	12	15	31.5	36-40.5	121-20.1	3.2	0.5	9	104	3.8	0.13	0.8	0.8	B	PAICINES
	11	12	57	48.9	36-32.7	121-10.7	7.4	1.7	13	66	3.5	0.04	0.2	0.4	A	BICKMORE CANYON
	11	13	12	0.9	36-29.9	121- 6.9	8.9	0.6	9	99	3.8	0.08	0.6	1.2	B	TOPO VALLEY
	11	15	6	55.1	36-35.7	120-52.9	5.3	1.1	11	236	6.0	0.18	2.2	1.1	C	LLANADA
	11	18	26	55.1	36-33.8	121- 4.4	10.8	1.6	11	107	5.4	0.18	1.6	2.8	E	SAN BENITO
	11	19	55	35.9	36-10.9	120-45.8	6.6	2.2	12	144	4.6	0.10	0.7	0.8	B	MONARCH PEAK
	11	21	26	49.1	35-59.4	120-52.5	10.4	2.7	21	170	19.1	0.16	0.9	0.8	C	HAMES VALLEY
	12	1	22	33.8	36-25.8	121- 2.8	3.8	0.4	8	124	2.7	0.10	0.8	1.0	B	TOPO VALLEY
	12	2	31	45.7	36-46.9	121-22.5	11.1	1.3	13	70	8.5	0.10	0.5	1.3	A	HOLLISTER
	12	3	51	15.1	36-40.6	121-20.2	5.4	3.0	30	62	3.7	0.13	0.4	0.6	A	PAICINES
	12	3	55	52.0	36-40.5	121-20.1	5.3	2.8	30	62	3.9	0.13	0.3	0.6	A	PAICINES
	12	4	0	41.3	36-40.3	121-19.9	3.5	0.6	13	107	4.4	0.08	0.3	0.4	B	PAICINES
	12	4	36	12.7	36-35.0	121-13.7	8.0	0.7	9	82	3.6	0.03	0.2	0.4	A	BICKMORE CANYON
	12	4	42	12.8	37-23.3	121-45.5	4.6	0.5	7	129	3.3	0.04	0.4	0.2	E	CALAVERAS RESERVOIR
	12	7	16	33.9	36-40.6	121-20.2	3.5	1.3	14	62	3.7	0.11	0.5	0.4	A	PAICINES

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
DEC	12	7	33	42.4	37-31.1	121-54.8	5.5	0.4	11	57	3.8	0.16	0.8	0.9	B	NILES
	12	8	34	1.0	36-40.3	121-19.9	3.7	0.6	13	108	4.2	0.06	0.2	0.3	B	PAICINES
	12	9	20	5.0	37-37.9	122- 2.0	2.4	1.2	16	65	6.8	0.14	0.5	0.6	B	HAYWARD
	12	10	38	30.4	36-31.3	121- 8.9	8.0	0.7	10	85	6.7	0.07	0.4	1.0	A	BICKMORE CANYON
	12	10	43	14.7	36-40.5	121-20.2	3.9	0.6	11	103	3.8	0.06	0.3	0.3	B	PAICINES
	12	12	1	50.8	37-53.0	121-57.9	4.5	1.5	9	129	6.1	0.16	0.9	0.6	B	CLAYTON
	12	12	50	51.3	37-25.2	121-45.4	4.5	0.4	9	83	5.0	0.10	0.6	0.4	B	CALAVERAS RESERVOIR
	12	15	15	46.6	37-18.4	121-38.6	7.6	0.8	12	67	3.8	0.13	0.6	1.4	A	LICK OBSERVATORY
	12	18	32	38.4	35-59.6	120-35.5	3.5	1.7	7	143	11.9	0.12	2.1	3.2	C	STOCKDALE MTN
	12	18	43	48.7	36-12.8	120-21.3	4.8	2.1	9	267	28.9	0.06	1.6	0.4	C	COALINGA
	12	20	41	49.6	36-34.3	121-12.8	7.5	1.5	13	68	2.1	0.07	0.3	0.7	A	BICKMORE CANYON
	12	22	18	54.1	36-57.2	121-36.5	4.4	0.7	9	89	2.3	0.08	0.5	0.9	A	CHITTENDEN
	12	23	43	11.1	37-23.2	121-43.8	6.2	2.3	34	84	3.9	0.14	0.4	1.1	A	MT DAY
	12	23	45	0.1	37-23.2	121-43.7	6.1	1.4	18	84	3.8	0.13	0.5	1.4	A	MT DAY
	13	4	23	55.2	36-31.5	121- 7.0	8.4	0.9	8	84	4.1	0.09	0.7	1.6	A	SAN BENITO
	13	4	35	37.3	36-34.9	121-13.6	8.4	0.5	9	86	3.5	0.03	0.2	0.4	A	BICKMORE CANYON
	13	9	1	32.8	36-36.8	121-14.8	4.1	1.6	14	59	2.7	0.08	0.3	0.7	A	BICKMORE CANYON
	13	10	52	33.3	36-38.9	121-17.8	5.5	2.9	32	60	5.9	0.15	0.4	0.6	B	PAICINES
	13	12	9	29.9	36-38.8	121-17.8	4.8	1.6	18	60	5.9	0.10	0.3	1.1	B	PAICINES
	13	15	25	16.9	36-31.4	121- 9.2	6.4	0.6	7	115	6.6	0.04	0.4	0.8	B	BICKMORE CANYON
	13	17	0	27.2	36-31.0	121- 7.7	9.9	2.0	14	59	4.8	0.06	0.3	0.5	A	BICKMORE CANYON
	13	18	2	40.5	36-27.8	121- 4.8	7.2	1.5	17	108	5.3	0.09	0.4	0.8	B	TOPO VALLEY
	13	19	21	24.4	37-23.9	121-39.0	6.4	1.1	14	114	6.3	0.15	0.7	2.4	B	MT DAY
	13	20	32	36.8	37-57.0	122- 1.1	9.9	2.9	11	115	8.2	0.21	1.2	2.7	B	WALNUT CREEK
	13	21	48	50.5	36- 0.6	120-51.7	14.8	1.4	9	197	16.7	0.09	1.2	0.6	C	PANCHO RICO VALLEY
	14	1	31	57.9	36-38.7	121-17.6	6.1	3.0	29	59	5.5	0.13	0.3	0.5	A	PAICINES
	14	2	45	33.2	37-13.9	121-42.9	5.9	0.6	8	85	4.8	0.05	0.4	1.6	A	MORGAN HILL
	14	6	40	53.7	37-23.0	121-43.4	5.3	1.3	18	84	3.9	0.14	0.5	0.5	A	MT DAY
	14	6	56	9.3	35-59.6	120-52.4	12.8	1.1	10	169	18.7	0.13	1.0	1.0	B	WUNPOST
	14	7	9	22.1	37-13.9	121-42.9	6.9	0.6	8	85	4.9	0.05	0.3	1.0	A	MORGAN HILL
	14	7	16	23.7	36-47.6	121-29.2	4.6	1.1	13	72	4.4	0.11	0.5	0.9	A	HOLLISTER
	14	13	44	27.4	35-31.8	121-11.3	7.2	2.7	12	206	61.5	0.09	0.8	0.5	C	
	14	19	20	53.0	36-49.5	121-57.3	12.8	1.5	13	164	20.0	0.06	0.4	0.5	B	***OFFSHORE - MONTEREY BAY***
	14	19	21	23.4	36-31.2	121- 7.8	9.6	2.1	16	53	5.0	0.08	0.3	0.6	A	BICKMORE CANYON
	14	23	26	35.2	36-36.6	121-14.8	2.8	0.7	10	60	3.0	0.04	0.2	0.2	A	BICKMORE CANYON
	15	1	14	56.7	37-23.1	121-44.1	4.5	1.2	12	82	3.5	0.15	0.7	0.4	B	MT DAY
	15	2	24	25.1	36-30.9	121- 6.6	9.0	1.3	12	88	3.2	0.09	0.5	0.9	A	SAN BENITO
	15	3	5	18.5	36-55.4	121-23.5	3.2	1.2	19	88	6.7	0.11	0.3	0.3	B	SAN FELIPE
	15	4	27	55.5	36- 8.2	120-42.9	4.0	1.8	11	102	3.1	0.23	1.6	1.3	B	PRIEST VALLEY
	15	9	11	56.1	36-37.9	121-16.3	7.6	2.0	19	54	3.4	0.10	0.3	0.7	A	PAICINES
	15	9	13	4.8	36-37.5	121-16.0	7.8	0.6	9	99	3.1	0.02	0.2	0.4	B	PAICINES
	15	9	40	0.7	36-32.1	121- 9.6	8.6	0.8	9	88	5.1	0.08	0.5	1.1	A	BICKMORE CANYON
	15	9	59	43.1	36-37.6	121-16.1	7.9	0.6	8	102	3.3	0.03	0.3	0.5	B	PAICINES
	15	11	32	46.3	36-52.3	121-19.5	11.0	0.7	11	67	2.1	0.05	0.4	0.6	A	TRES PINOS
	15	14	35	44.3	36-49.0	121-32.6	4.6	0.3	7	129	3.4	0.06	0.6	1.0	B	SAN JUAN BAUTISTA

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MIN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
DEC	15	14	52	49.9	35-50.8	120-23.5	4.3	2.3	9	90	3.9	0.14	1.2	2.7	B	CHOLAME HILLS
	15	15	16	13.3	36-13.7	120-48.8	6.8	0.9	8	135	2.2	0.14	1.3	2.1	C	MONARCH PEAK
	15	15	44	39.3	36-39.1	121-17.6	2.1	0.6	7	117	5.7	0.02	0.2	1.5	B	PAICINES
	15	17	39	45.0	36-37.6	121-16.1	7.4	1.0	8	108	3.3	0.03	0.2	0.6	B	PAICINES
	16	0	38	59.8	36-57.6	121-39.8	10.3	0.8	11	83	3.0	0.06	0.4	0.7	A	WATSONVILLE EAST
	16	1	8	23.2	36-43.3	121-22.6	2.5	0.6	9	90	3.3	0.11	0.8	0.7	A	MT HARLAN
	16	1	51	19.0	36-28.2	121- 4.4	9.4	1.1	9	139	4.4	0.08	0.9	1.2	B	TOPO VALLEY
	16	9	31	33.6	36-31.3	121- 7.8	9.5	1.1	12	86	5.0	0.09	0.5	0.9	A	BICKMORE CANYON
	16	12	39	54.5	36-34.8	121- 6.4	14.2	1.7	16	74	7.3	0.12	0.7	0.5	A	SAN BENITO
	16	14	11	46.8	36-32.8	121- 3.1	12.5	1.5	12	108	4.5	0.07	0.5	0.4	B	SAN BENITO
16	20	10	1.3	37-39.2	121-43.9	4.9	1.8	10	147	10.6	0.23	1.6	1.4	C	ALTAMONT	
16	22	52	17.2	36-57.7	121-40.0	8.9	0.5	11	78	2.7	0.07	0.5	0.8	A	WATSONVILLE EAST	
16	23	14	12.4	36-38.6	121-17.5	5.3	1.8	18	59	5.4	0.10	0.3	0.5	B	PAICINES	
16	23	20	16.4	36-47.8	121-30.6	3.6	0.8	13	69	5.2	0.11	0.5	0.5	B	SAN JUAN BAUTISTA	
17	0	45	53.4	37-23.7	121-36.2	7.4	1.0	7	136	8.1	0.16	1.8	6.4	C	EYLAR MTN	
17	1	30	29.4	36-32.6	121-11.4	6.8	0.8	9	91	3.5	0.07	0.5	0.8	B	BICKMORE CANYON	
17	1	49	57.6	36-57.7	121-39.6	9.3	0.5	9	96	3.3	0.07	0.5	0.9	B	WATSONVILLE EAST	
17	4	11	31.0	36-57.6	121-39.8	10.5	0.3	8	171	3.0	0.07	1.1	1.4	C	WATSONVILLE EAST	
17	9	20	17.9	36-49.3	121-23.3	10.0	0.6	12	77	4.1	0.04	0.2	0.6	A	HOLLISTER	
17	13	47	33.1	36-46.3	121-21.3	10.6	0.5	9	110	7.1	0.08	0.6	1.3	B	TRES PINOS	
17	15	32	13.3	35-55.1	120-29.0	3.6	2.0	7	94	3.1	0.09	0.7	0.4	B	PARKFIELD	
17	17	49	45.8	36-40.4	121-20.0	3.7	1.2	10	107	4.0	0.07	0.4	0.4	B	PAICINES	
17	18	16	50.8	37-12.9	121-34.1	1.5	0.5	10	114	7.7	0.09	0.5	0.6	B	MT SIZER	
17	18	19	17.5	36-36.5	121-14.5	4.0	1.5	14	60	3.0	0.07	0.3	0.3	A	BICKMORE CANYON	
17	19	52	42.4	36-40.5	121-20.1	5.4	2.3	23	62	3.9	0.12	0.4	0.5	A	PAICINES	
17	22	50	59.5	36-29.9	121- 6.2	9.4	0.5	8	98	2.8	0.07	0.6	1.3	B	TOPO VALLEY	
18	0	4	33.9	36-31.7	121- 7.2	4.0	0.5	8	82	4.5	0.11	0.7	0.8	A	SAN BENITO	
18	2	0	46.7	37-15.7	121-37.1	5.4	1.2	14	91	4.9	0.09	0.4	0.3	B	ISABEL VALLEY	
18	3	13	38.9	37- 9.8	121-31.1	0.3	0.5	9	125	9.3	0.13	0.8	0.7	B	MT SIZER	
18	3	23	39.3	37-20.4	122- 7.1	5.3	1.1	11	79	2.6	0.17	1.0	1.2	B	CUPERTINO	
18	5	21	3.4	36-53.1	121- 8.8	0.6	1.2	17	196	8.3	0.17	0.7	0.8	C	MARIPOSA PEAK	
18	7	38	0.3	36-37.0	121-15.1	2.5	0.2	7	129	7.3	0.04	0.3	0.4	B	MT JOHNSON	
18	9	15	3.0	36-27.4	121- 4.4	7.5	1.3	11	96	6.0	0.11	0.6	1.3	B	TOPO VALLEY	
18	10	9	16.1	36-49.4	121-33.7	6.0	1.1	10	79	3.1	0.17	1.3	1.2	B	SAN JUAN BAUTISTA	
18	10	14	24.8	36-33.6	121-11.3	6.2	2.8	25	66	1.7	0.14	0.4	0.5	A	BICKMORE CANYON	
18	10	23	24.4	36-32.1	121- 6.7	6.9	1.1	11	73	4.3	0.09	0.5	1.2	A	SAN BENITO	
18	11	44	29.9	36-38.8	121-17.6	4.8	1.5	16	60	5.6	0.11	0.4	1.2	B	PAICINES	
18	12	31	12.9	36-40.8	121-19.0	9.5	1.5	14	68	4.0	0.10	0.4	0.9	A	PAICINES	
18	12	44	49.2	36-40.2	121-19.5	5.8	2.8	28	63	4.7	0.10	0.3	0.4	A	PAICINES	
18	15	39	44.6	36-32.0	121- 6.8	6.4	1.3	11	78	4.3	0.13	0.7	1.6	A	SAN BENITO	
18	15	41	50.2	36-31.8	121- 9.3	7.4	0.7	10	81	6.0	0.07	0.4	1.0	A	BICKMORE CANYON	
18	16	55	39.0	37-32.0	121-54.9	5.9	0.7	9	125	4.2	0.16	1.1	1.0	B	NILES	
18	20	7	27.2	36-31.9	121- 9.0	5.4	0.4	8	80	5.9	0.07	0.5	1.2	B	BICKMORE CANYON	
18	20	9	33.1	36-26.2	121- 1.9	0.1	1.3	7	108	1.9	0.04	0.3	0.3	B	TOPO VALLEY	
18	23	13	4.8	36-48.7	121-32.3	6.1	1.7	20	45	3.4	0.16	0.6	0.8	B	SAN JUAN BAUTISTA	

CENTRAL CALIFORNIA EARTHQUAKES---FOURTH QUARTER 1972 (CONTINUED)

	1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE
DEC	18	23	44	0.2	36-33.5	121-11.3	8.3	1.3	10	82	1.9	0.03	0.2	0.3	A	BICKMORE CANYON
	18	23	47	36.5	37-22.3	121-42.0	3.9	0.7	6	87	5.2	0.13	1.6	1.4	B	LICK OBSERVATORY
	19	12	24	9.4	36-38.8	121-17.6	5.0	1.4	14	60	5.6	0.12	0.5	1.9	B	PAICINES
	19	13	50	35.6	36-57.1	121-38.4	4.9	1.4	16	52	3.0	0.08	0.3	0.4	A	WATSONVILLE EAST
	19	18	2	5.3	37-52.9	122-14.9	8.2	1.5	19	88	1.3	0.10	0.4	0.6	A	BRIONES VALLEY
	19	23	6	37.6	36-26.7	121- 2.7	5.8	0.4	7	127	3.3	0.08	0.9	1.3	B	TOPO VALLEY
	20	3	55	59.5	36-35.3	121- 8.1	10.3	0.4	6	106	5.0	0.03	0.4	0.9	B	BICKMORE CANYON
	20	4	6	29.4	36-25.3	121- 2.3	7.2	1.4	11	87	1.9	0.09	0.5	0.9	A	TOPO VALLEY
	20	6	15	6.4	36-31.7	121- 9.3	11.4	0.2	8	156	6.0	0.12	0.9	2.1	C	BICKMORE CANYON
	20	9	20	50.7	36-36.5	121-14.8	6.3	0.3	6	97	3.3	0.02	0.3	0.7	B	BICKMORE CANYON
	20	10	29	56.1	36-39.9	121-18.2	4.8	1.0	10	67	6.0	0.10	0.5	1.5	B	PAICINES
	20	10	41	28.0	36-32.6	121- 9.6	9.2	1.3	8	95	4.5	0.05	0.4	0.8	B	BICKMORE CANYON
	20	21	58	8.8	36-57.2	121-36.6	5.0	1.8	19	77	2.4	0.11	0.4	0.4	A	CHITTENDEN
	21	5	14	59.0	36-54.4	121-32.3	4.0	0.9	10	82	2.9	0.06	0.4	0.6	A	CHITTENDEN
	21	5	38	54.4	36-21.8	120-59.1	8.7	0.9	9	94	7.3	0.14	0.9	1.3	B	LONDAK
	21	6	44	35.9	36-54.6	121-32.4	4.0	1.3	10	85	3.0	0.04	0.2	0.3	A	CHITTENDEN
	21	8	3	53.7	36-29.3	121- 6.0	4.4	0.9	9	105	3.3	0.13	0.7	1.9	B	TOPO VALLEY
	21	8	10	0.8	36-38.4	121-17.0	4.0	0.7	9	92	4.5	0.07	0.4	0.4	B	PAICINES
	21	12	57	19.6	36-33.5	121-11.3	5.8	1.6	17	66	1.9	0.08	0.3	0.6	A	BICKMORE CANYON
	21	15	59	58.1	36-47.3	121-21.6	7.5	0.6	10	101	8.0	0.16	1.2	2.6	B	TRES PINOS
	21	18	8	60.0	37-46.4	122- 8.6	9.4	1.6	14	61	3.0	0.10	0.4	0.7	A	OAKLAND EAST
	21	18	43	56.6	36-38.3	121-17.2	4.2	1.7	17	57	4.8	0.08	0.3	0.9	A	PAICINES
	21	21	59	22.5	36-12.0	120-48.3	5.8	1.2	6	116	1.8	0.05	0.5	0.8	B	MONARCH PEAK
	21	22	0	37.5	36-12.1	120-48.1	6.3	1.2	6	122	1.5	0.08	1.0	1.5	B	MONARCH PEAK
	21	22	6	48.4	36-11.9	120-48.2	5.7	1.3	6	120	2.0	0.09	1.1	1.7	B	MONARCH PEAK
	21	22	38	14.9	36-29.5	121- 7.4	1.9	0.7	9	151	4.7	0.11	0.7	0.5	B	TOPO VALLEY
	22	2	11	59.1	36-35.0	121-13.3	6.1	1.0	12	67	3.1	0.05	0.3	0.5	A	BICKMORE CANYON
	22	3	55	50.9	36-22.9	120-58.9	2.7	1.1	9	112	5.8	0.14	0.9	1.2	B	ROCK SPRING PEAK
	22	8	15	38.4	37- 1.0	121-42.6	12.6	1.4	19	59	4.0	0.07	0.3	0.6	A	MT MADONNA
	22	9	52	30.1	36-27.4	121- 4.2	7.5	1.1	10	98	5.9	0.07	0.4	0.9	B	TOPO VALLEY
	22	15	55	37.2	36-53.6	121-19.4	3.9	0.4	7	117	1.7	0.08	0.7	1.1	B	THREE SISTERS
	22	18	58	28.5	36-35.5	121-14.2	8.1	1.1	9	72	4.6	0.03	0.2	0.5	A	BICKMORE CANYON
	22	22	46	9.8	36-40.9	121-20.5	4.0	1.3	10	66	3.1	0.13	0.8	1.6	A	PAICINES
	23	1	29	9.4	36-39.6	121-17.6	5.1	0.9	9	80	6.0	0.06	0.4	1.0	B	PAICINES
	23	1	46	52.7	36-27.2	121- 4.2	8.5	0.6	8	131	5.7	0.09	0.9	1.4	B	TOPO VALLEY
	23	4	5	0.7	36-27.6	121- 4.5	6.9	0.6	8	124	5.5	0.10	0.8	1.5	B	TOPO VALLEY
	23	7	18	6.5	36-27.3	121- 4.3	8.5	1.4	12	97	5.8	0.09	0.5	1.1	B	TOPO VALLEY
	23	9	2	58.8	36-32.8	121-10.6	8.2	0.5	7	91	3.4	0.05	0.5	0.9	B	BICKMORE CANYON
	23	12	5	17.8	36-46.7	121-28.9	4.7	1.8	24	42	2.9	0.18	0.5	0.8	B	HOLLISTER
	23	14	56	15.1	37-34.7	121-54.0	8.3	0.9	12	67	6.9	0.12	0.6	1.4	A	NILES
	23	16	42	40.1	37-34.7	121-54.1	9.2	0.9	11	66	6.9	0.12	0.6	1.4	A	NILES
	23	18	53	36.7	36-32.8	121-10.8	8.2	0.8	8	90	3.2	0.06	0.5	0.9	B	BICKMORE CANYON
	23	20	16	12.4	36-34.8	121-13.7	9.0	2.4	25	69	3.5	0.15	0.5	0.9	A	BICKMORE CANYON
	23	20	52	22.7	36-32.9	121-10.5	8.1	1.1	8	90	3.2	0.05	0.3	0.7	A	BICKMORE CANYON
	24	0	46	57.4	35-59.0	120-34.5	4.4	2.1	12	132	10.0	0.14	1.1	1.0	C	STOCKDALE MTN

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MN	SEC	LAT N	LONG W	DEPTH	MAG	NO	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
DEC	24	1	0	59.9	36-32.9	121-10.7	5.8	2.4	19	65	3.1	0.07	0.3	0.3	A	BICKMORE CANYON
	24	1	20	25.9	36-32.9	121-10.6	7.5	1.6	12	71	3.2	0.05	0.2	0.5	A	BICKMORE CANYON
	24	1	49	41.3	36-32.8	121-10.6	7.4	1.4	11	71	3.3	0.05	0.3	0.6	A	BICKMORE CANYON
	24	2	3	28.0	36-32.9	121-10.7	7.7	2.4	21	65	3.1	0.09	0.3	0.6	A	BICKMORE CANYON
	24	2	21	9.1	36-32.6	121-10.6	8.3	0.8	11	93	3.7	0.13	0.7	1.5	B	BICKMORE CANYON
	24	2	22	43.2	36-32.8	121-10.6	7.9	1.0	9	91	3.4	0.05	0.4	0.7	B	BICKMORE CANYON
	24	2	38	7.9	36-32.8	121-10.6	7.9	1.3	10	71	3.3	0.04	0.2	0.4	A	BICKMORE CANYON
	24	4	23	29.2	36-37.0	121-15.2	4.5	1.8	21	58	2.7	0.14	0.5	0.7	A	MT JOHNSON
	24	5	54	13.0	36-33.0	121-10.7	7.3	1.9	18	65	3.0	0.08	0.3	0.6	A	BICKMORE CANYON
	24	8	14	49.0	36-32.9	121-10.7	7.0	2.0	15	71	3.1	0.07	0.3	0.6	A	BICKMORE CANYON
	24	9	25	59.8	36-26.9	121- 4.0	5.5	0.3	8	135	5.2	0.06	0.6	1.4	B	TOPO VALLEY
	24	9	54	57.1	36-33.0	121-10.8	6.1	2.9	26	65	2.9	0.14	0.4	0.6	A	BICKMORE CANYON
	24	11	38	16.7	36-55.9	121-32.6	5.0	1.0	16	60	3.5	0.06	0.2	0.5	A	CHITTENDEN
	24	11	47	10.1	38-22.5	122-24.2	7.8	1.2	11	130	5.1	0.12	0.7	1.4	B	RUTHERFORD
	24	14	36	13.5	35-59.9	120-52.4	13.1	1.6	10	168	18.3	0.10	0.8	0.7	B	WUNPOST
	24	17	32	31.9	36-38.1	121-16.8	5.0	1.4	12	56	4.1	0.04	0.2	0.5	A	PAICINES
	24	22	16	23.7	36-37.4	121-16.2	5.0	1.8	17	56	3.5	0.09	0.3	0.8	A	MT JOHNSON
	25	1	11	14.5	36-20.8	120-56.8	5.0	0.9	7	108	3.8	0.15	1.6	4.2	B	LONDAK
	25	3	17	7.1	36-49.4	121-32.2	3.1	1.3	14	58	4.3	0.12	0.4	0.5	A	SAN JUAN BAUTISTA
	25	8	4	6.7	37-17.4	121-38.4	6.7	0.7	16	75	4.6	0.12	0.5	1.5	A	LICK OBSERVATORY
	25	15	3	53.9	36-31.1	121- 7.4	7.4	1.5	10	87	4.3	0.11	0.6	1.5	A	SAN BENITO
	25	18	48	35.8	36-33.6	121-10.8	3.7	1.7	14	66	1.8	0.04	0.2	0.2	A	BICKMORE CANYON
	25	20	14	20.2	36-32.9	121-10.7	7.6	1.1	10	89	3.1	0.03	0.2	0.4	A	BICKMORE CANYON
	25	22	38	31.4	36-48.5	121-22.7	4.7	0.4	8	85	5.9	0.04	0.3	0.5	B	HOLLISTER
	25	23	30	28.0	37- 1.1	121- 9.7	3.4	1.4	11	232	8.2	0.15	1.4	0.7	C	PACHECO PASS
	25	23	41	3.0	36-49.5	121-23.5	9.4	0.4	9	75	3.8	0.07	0.5	1.0	A	HOLLISTER
	26	3	39	24.0	36-31.8	121- 9.8	9.1	0.6	11	80	5.4	0.05	0.3	0.6	A	BICKMORE CANYON
	26	3	41	47.7	36-32.4	121-10.2	6.9	1.0	12	75	4.3	0.05	0.3	0.6	A	BICKMORE CANYON
	26	6	7	15.5	36-38.3	121-17.4	1.4	0.8	9	105	5.1	0.08	0.7	0.7	B	PAICINES
	26	19	41	31.4	37-22.7	121-37.6	6.8	0.8	11	114	4.4	0.15	0.8	2.2	B	MT DAY
	26	19	52	30.9	36-31.6	121- 6.8	10.8	0.9	10	82	3.8	0.07	0.4	0.9	A	SAN BENITO
	26	22	53	39.0	36-35.8	121-13.2	2.5	1.9	17	62	3.7	0.08	0.3	0.3	A	BICKMORE CANYON
	27	1	40	11.2	36-40.1	121-19.2	11.9	0.4	9	76	5.0	0.03	0.3	0.6	A	PAICINES
	27	3	46	39.0	36-38.2	121- 1.8	7.9	0.9	9	212	5.0	0.10	1.1	1.1	C	PANOCH PASS
	27	5	33	50.8	36-35.6	121-14.5	8.7	1.4	17	66	4.7	0.07	0.3	0.5	A	BICKMORE CANYON
	27	9	13	8.1	37- 6.0	121-30.5	8.5	0.6	8	100	5.5	0.06	0.4	1.0	B	GILROY
	27	9	53	48.1	36-40.4	121-19.3	12.4	0.5	9	74	4.5	0.03	0.3	0.6	A	PAICINES
	27	10	1	57.5	36-56.2	121-33.2	5.2	1.9	27	57	3.6	0.09	0.2	0.3	A	CHITTENDEN
	27	12	10	34.2	37-18.5	121-39.7	3.1	0.9	13	64	4.2	0.13	0.5	0.4	A	LICK OBSERVATORY
	27	18	11	39.4	35-59.4	120-52.5	12.3	1.8	13	171	19.1	0.14	0.9	0.9	B	WUNPOST
	27	18	49	21.8	36-38.2	121- 1.8	7.9	1.1	9	142	5.0	0.11	0.9	1.3	B	PANOCH PASS
	27	21	5	2.2	36-47.1	121-26.0	10.3	1.0	14	81	2.4	0.13	0.6	1.2	A	HOLLISTER
	27	21	13	45.7	37-42.1	122- 7.6	8.5	2.0	24	55	6.8	0.09	0.3	0.5	A	SAN LEANDRO
	27	22	2	54.0	36-35.2	121- 6.2	21.5	1.0	15	81	7.0	0.08	0.6	0.8	A	SAN BENITO
	28	1	56	46.8	36-57.9	121-38.0	4.9	1.0	16	57	4.4	0.09	0.4	0.4	A	WATSONVILLE EAST

CENTRAL CALIFORNIA EARTHQUAKES--FOURTH QUARTER 1972 (CONTINUED)

1972	HR	MM	SEC	LAT N	LONG W	DEPTH	MAG	NC	GAP	DMIN	RMS	ERH	ERZ	Q	QUADRANGLE	
DEC	28	8	31	18.1	38-27.1	122-38.2	9.4	1.9	15	77	7.9	0.13	0.6	0.8	A	SANTA ROSA
	28	9	11	1.5	36-49.2	121-23.6	9.0	2.1	27	39	4.2	0.12	0.3	0.9	A	HOLLISTER
	28	9	33	31.7	38- 1.2	121-51.9	5.5	1.6	12	136	11.9	0.29	2.1	1.6	C	ANTIOCH NORTH
	28	9	40	52.4	36-49.2	121-23.7	7.8	1.8	22	39	4.2	0.12	0.4	1.1	A	HOLLISTER
	28	14	40	40.3	37-17.3	121-38.4	5.9	1.3	17	76	4.4	0.12	0.4	0.7	A	LICK OBSERVATORY
	29	1	23	5.8	38-21.9	122-34.3	9.2	0.5	6	97	9.6	0.05	0.6	1.9	B	GLEN ELLEN
	29	6	29	57.7	36-34.6	121- 7.6	12.0	2.1	19	64	5.6	0.13	0.6	0.6	A	BICKMORE CANYON
	29	6	36	31.1	36-34.4	121- 7.3	11.4	1.1	10	72	6.0	0.13	1.0	1.9	B	SAN BENITO
	29	6	55	41.4	37-22.5	121-42.7	5.9	0.6	7	85	4.4	0.11	0.8	2.3	B	MT DAY
	29	9	44	42.1	36-47.4	122- 5.6	9.6	2.2	31	190	26.2	0.09	0.4	0.4	C	***OFFSHORE - MONTEREY BAY***
	29	12	23	9.3	37-16.1	121-37.5	5.9	1.1	12	87	4.4	0.11	0.5	0.7	A	ISABEL VALLEY
	29	17	54	1.3	37-16.2	121-37.4	5.6	0.5	10	86	4.5	0.07	0.4	0.3	A	ISABEL VALLEY
	30	0	28	34.0	37- 5.3	122-16.7	12.9	1.2	9	184	13.8	0.08	0.8	0.9	C	ANO NUEVO
	30	5	16	28.6	36-33.0	121-11.0	6.9	1.3	9	130	2.8	0.05	0.4	0.6	B	BICKMORE CANYON
	30	5	38	27.6	37-13.4	121-37.7	4.9	1.0	13	91	5.5	0.11	0.5	0.4	B	MORGAN HILL
	30	7	12	4.4	36-15.5	120-51.3	6.4	1.4	8	118	7.2	0.12	0.9	2.7	B	HEPSEODAM PEAK
	30	7	28	44.5	35-56.6	120-31.2	3.0	1.5	7	139	4.2	0.07	0.7	0.4	B	STOCKDALE MTN
	30	9	12	19.7	36- 9.5	120-45.3	7.5	1.9	12	147	6.4	0.18	1.1	1.5	C	MONARCH PEAK
	30	14	0	33.0	35-58.8	120-34.9	1.9	1.8	7	140	10.5	0.03	0.3	0.3	B	STOCKDALE MTN
	30	21	43	18.5	36-40.9	121-11.1	11.3	0.8	8	114	2.2	0.09	1.0	1.5	B	CHERRY PEAK
	30	22	14	21.7	36-41.0	121-11.5	9.2	0.9	8	113	2.6	0.06	0.6	0.9	B	CHERRY PEAK
	31	6	17	37.8	36-36.9	121-11.5	8.7	1.7	17	53	4.4	0.15	0.6	1.0	A	BICKMORE CANYON
	31	6	20	18.9	36-37.0	121-11.4	12.3	0.6	7	76	4.4	0.07	1.0	1.5	A	BICKMORE CANYON
	31	20	22	23.5	37-53.0	121-49.1	5.3	1.1	5	220	8.1	0.03	0.7	0.2	C	ANTIOCH SOUTH
	31	22	2	32.5	37- 3.9	121-28.9	4.2	1.2	16	53	4.4	0.17	0.7	1.0	B	GILROY HOT SPRINGS
	31	22	23	5.6	36-36.3	121-13.4	1.3	1.4	12	60	3.5	0.06	0.2	0.2	A	BICKMORE CANYON

