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CATALOGUE of EARTHQUAKES in NORTHERN CALIFORNIA and ADJOINING AREAS

1 January 1910 – 31 December 1972

Bruce A. Bolt
Roy D. Miller

Seismographic Stations
University of California
Berkeley, California
1975

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Seismographic Stations

University of California

Berkeley, California

1975

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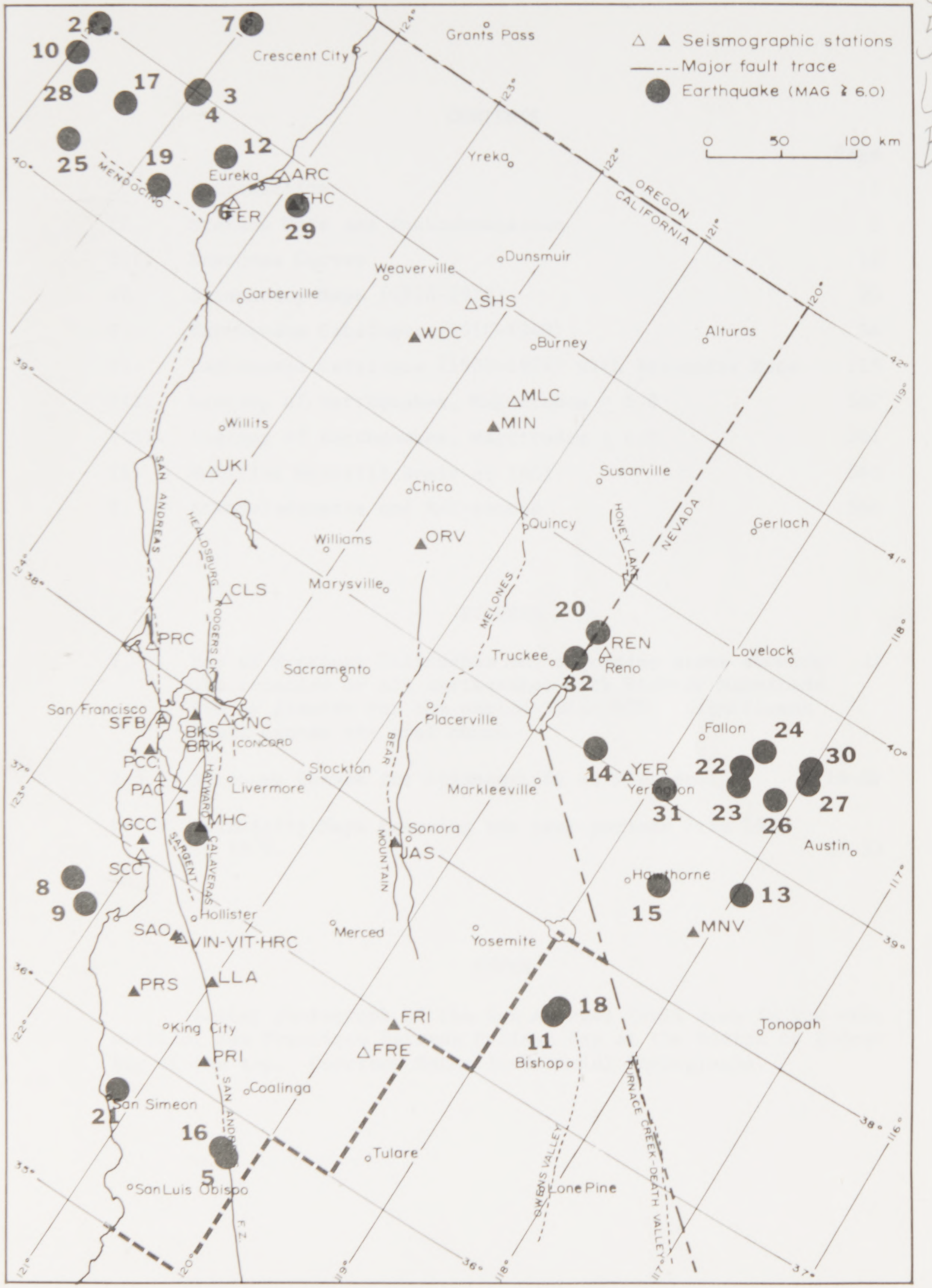

Figure 1 - Map of Northern California and adjoining areas showing the location of all earthquakes with Richter Magnitude 6.0 or greater for the period 1910-1972. For description of each earthquake see Section

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COVER

Aerial photograph of the San Andreas fault zone in the area north of San Francisco between Bolinas Bay at the bottom to Bodega Bay at the top. Courtesy Sutherland Aerial Photographs.

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I. Introduction

This catalogue is for the most part a compilation of basic seismological data on earthquakes in Northern California and adjoining areas as contained in the "Bulletin of the Seismographic Stations", Volumes 1-42, covering the years 1910-1972. It incorporates modifications and additional observations that have been made since the time of the original publication. It also includes a number of new maps and specialized listings, as well as some earthquakes within the area of interest which are described in other sources and for which Berkeley information is inadequate.

More specifically, Section IV contains computer plotted seismicity maps illustrating ten year periods of earthquake activity in Northern California. Section V contains a computer print-out listing the earthquakes occurring in Northern California and adjoining areas during the period 1910-1949, while Section VI contains listings of earthquakes with accompanying epicenter maps for three or six month periods for the years 1950-1972. Detailed discussion on the estimation of earthquake parameters and format used in these listings will be found in the introduction to Section IV.

Because of changes in station density and observatory practices over the years, the quality of the hypocenter locations contained herein is not uniform, but depends on the number of stations and types of seismographs in use at the time of recording, and on the method of location. A more thorough discussion of this subject is contained on page 23 .

While every effort has been made to include in the catalogue all local earthquakes of magnitude greater than or equal to 3.0, a few were almost surely missed, especially in the early years of operation. On the other hand, even though a large number of shocks of smaller magnitude are given, there is no claim made as to the completeness of such listing. Nuclear explosions and quarry blasts are in general not included, except in cases of uncertain identification, and in these cases an appropriate notation is made (e.g. Blast?).

In addition to the information on local earthquakes summarized in this catalogue, much additional observational material on United States and overseas earthquakes is available at the Berkeley Station. Many back numbers of individual "Bulletins of the Seismographic Stations" are still available and can be sent upon request to the Director. These contain readings of recorded teleseisms as well as the local earthquake lists. Also, the list of earthquakes in Sections V and VI is available in binary or BCD form on magnetic tape, upon request, at a cost of $50. The magnetic tape list now contains 10,396 earthquakes, including aftershock sequences, and will be updated every six months. This tape is 1200 feet, 1/2 inch, 7 track at 556 cpi. Finally, a considerable library of recorded earthquakes, both regional and teleseisms, is stored on magnetic tape in analog form. Copies of these tapes as well as copies of photographic paper seismograms can be obtained for research purposes upon written request.

"The Seismographic Stations at Mount Hamilton (Lick Observatory) and Berkeley present several items of interest in the history of earthquake science, one of which is that according to the available records they were the first seismographic stations set up in America. Furthermore, they have functioned continuously from their founding to the present day, with improvements in instrumental equipment from time to time as the development of the science and opportunity have permitted.

Several outstanding figures in the seismology of the 1880's were impressed with the importance of these stations, and Ewing, Milne, and Gray each took a personal interest in aiding one or both stations to obtain their own best and most modern types of instruments."

The quotation is from "History of the University of California Seismographic Stations and Related Activities" by Professor George D. Louderback, published in the Bulletin of the Seismological Society of America, Vol. 32, No. 3, pp. 205-229, 1942. In this paper may be found a detailed account of the development of the Berkeley stations from the

installation of the first instruments in 1887 (the first earthquake known recorded at Mount Hamilton was on April 24, 1887) to 1942.

Since 1942, the number of seismographic stations associated with the University of California has increased from six to seventeen in 1972. In 1950, Professor Perry Byerly was appointed Director of the University of California Seismographic Stations by the Regents; he had been in charge of instruction and research in seismology since 1925. Professor Bruce A. Bolt was appointed Director in 1963. Since 1960, the stations have entered into research and service contracts with the Air Force Office of Scientific Research, the Arms Control and Disarmament Agency, the National Science Foundation, the California Department of Water Resources, the California Division of Mines and Geology, the U. S. Geological Survey, the Office of Naval Research and the National Oceanic and Atmospheric Administration.

By 1975, a telemetry network of fifteen stations in Central California, recording on film and magnetic tape, was operated by the University of California together with seismographs with broadband frequency response at Berkeley, Jamestown, San Andreas Geophysical Observatory, and Whiskeytown. A detailed description of station data and instrumentation with seismograph responses for the period 1910-1972 will be found in Sections II and III, pages 5 - 22.

In 1970, a 16 mm movie film, in color, duration 25 minutes, entitled "The Earthquake Observatory" was made describing the work of the Stations. The film is available for sale or rent on request from the Director. The film was reviewed (Adams, 1971) and recommended as educational and of general interest to the public.

In 1974, an interactive computerized seismogram analysis system was designed at the Berkeley Station. The main objective was to enable more rapid and precise analysis of the seismograms from the U.C. Berkeley network, based upon a mini-computer (Modcomp II/45) and a direct-writing graphics screen (Vector General Series 3). It is planned to bring this system into routine operation in 1976.

This Catalogue may be kept current by receiving continuing numbers of the semi-annual "Bulletin of the Seismographic Stations". Requests for inclusion on the mailing list should be sent to the Director.

II. STATION DATA AND INSTRUMENTATION

A notable feature of the University of California Seismographic Stations is the varied range of seismographic equipment operated at them since their beginnings, as the first stations in the Western Hemisphere, 88 years ago. Many types of classical seismographs were installed in the network in the early days, including Ewing, Bosch-Omori, Wiechert, and Wilip-Galitzen instruments. The elegant Bosch-Omori pendulum recorders are again in operation - now for public display: one at the Josephine Randall Junior Museum, San Francisco, and one at the Lawrence Hall of Science, Berkeley. In 1961-63 the conception of a connected regional network of stations with signals telemetered over commercial telephone lines was pioneered successfully at Berkeley and in the late sixties the importance of routine broadband tape recording of signals at an earthquake observatory was demonstrated.

In the following two Sections are listed details on all the stations operated by the University of California, Berkeley, in alphabetical order, during the interval 1887 to 1972. The details include the station name and official abbreviation, agency responsible for the establishment of the station, when established, its location, geology of the site, dates of operation, types of instruments, polarity, periods and magnification curves.

In the tables of Section II, direction of motion is indicated precisely by the order of the symbols under component. Thus WE indicates that W is up on the record while EW indicates that E is up. Common practice in recent years is to have vertical records (Z) read UP to correspond to compression. However, some earlier records may not follow this convention, so that written comments on individual seismograms should be adopted as the proper direction of motion.

The statement "to date" means that the station instruments were still operating on 31 December 1972, but does not imply that these instruments ceased operations at that time. The symbol # preceding "type of instrument" indicates that the record was made at Berkeley on a 16mm Develocorder at magnifications appropriate to an optical

enlargement of 20x. The symbol * preceding "type of instrument" indicates that the signal was recorded at Berkeley on magnetic tape.

Curves have been plotted in Section III to show the frequency response appropriate to each seismograph or recording system that contributed significant records to the extensive Berkeley library of seismograms and magnetic tapes. The longstanding policy is to calibrate the instruments frequently so that, generally speaking, ground motions can be calculated from the records with adequate precision by the use of the response curves.

In Figures 2, 3 and 4 the magnification factor on the ordinate is in terms of record amplitude relative to ground displacement. For the broadband tape-recording systems, listed in Figure 5, the ordinate is the voltage at the output terminals of the tape system per micrometer (i.e. per micron = 10^{-4} cm) of ground displacement. Further information on the response of these systems and phase curves is available upon request.

STATION DATA AND INSTRUMENTATION

SEISMOGRAPHIC STATIONS, UNIVERSITY OF CALIFORNIA, BERKELEY

ARC — ARCATA(ARC), CALIFORNIA

Established by the University of California in 1948
in cooperation with Humboldt State College
40° 52!6 North 124° 04!5 West Elevation 60 meters
Foundation material is Quaternary Sandstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
27Feb48-14Jun52	Sprengnether, DH	1.9	1.9	WE	
29Feb48-14Jun52	Sprengnether, DH	1.83	1.8	SN	
29Feb48-14Jun52	Sprengnether, DH	1.88	1.9	Z	
20Jun52 to date	Wood-Anderson	0.8		SN, WE	2,800 max
03Jun59-17May60	Sprengnether, DH	1.0	0.2	Z	
17May60-05Jul60	Modified Benioff	0.42	0.2	Z	
05Jun60-01Oct64	Slichter-Marion	1.1	0.2	Z	
01Oct64-10Dec68	Benioff 14.7kg	1.0	0.2	Z	5,800 at T_o

BKS — ¢BERKELEY(BKS), CALIFORNIA

(Strawberry Canyon)
Established by the University of California in 1962
37° 52!6 North 122° 14!1 West Elevation 276 meters
Foundation material is Miocene Claremont Cherts and Shales

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
08Jun62 to date	Benioff 100kg	1.0	0.75	NS, EW, Z	25,000 at T_o
08Jun62 to date	Sprengnether, S5007 10.7 kg.	30**	100.	NS, EW, Z	3,000 at T_o
Jul62 to date	Wood-Anderson	0.8		SN, WE	2,800 max
09Dec69 to date	Sprengnether, ULP S5100H, 11kg	100.	300.+	N45°E	230 at T_o
30Mar71 to date	Sprengnether, ULP S5100H, 11kg	100.	300.+	N45°W	640 at T_o

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¢ On March 20, 1964, the Regents of the University of California named this station the "Byerly Seismographic Station" in recognition of the work of Professor Perry Byerly.

** Natural period was changed from 30 to 15 sec on 12 May 1965.

+ 300 sec galvanometer response effected electronically.

BRK

BERKELEY(BRK), CALIFORNIA
Established by the University of California in 1887
37° 52!4 North 133° 14!6 West Elevation 81 meters
Foundation material is Jurassic/Cretaceous Franciscan Sandstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
Apr1887-1910	Ewing, 3 Component	5.0		NS, EW, Z	
	Ewing Duplex	5.0		Horizontal all azimuths	
	Gray-Milne Duplex			"	
15Jun06-10Nov10	Omori Tromometers	2.0		NS, EW	
30Oct10-Sep61	Bosch-Omori 100kg	15.0		NS, EW,	80 max
	Wiechert 80kg	6.0		Z	80 max
28Aug30-01Feb65	Wilip-Galitzin	12.0	12.0	NS, EW	1000 at T_o
				Z	600 at T_o
28Aug30-Jul62	Wood-Anderson**	1.0		NS, EW	3000 max
19Oct33-Sep62	Benioff 100kg	1.0	0.4	Z	30,000 at T_o
Jan47-Mar47	Sprengnether, DH	2.0	2.0	Z	
Jan48 to 1950	Slichter	1.0		Z	
Mar48 to 1950	Slichter	1.0		EW	
01May59 to date	#Benioff 100kg	1.0	0.2	Z	25,000 at T_o
21Jun68 to date	Benioff 100kg	1.0	8.0	Z	Variable
Jan68 to date	100x torsion	0.8		NS, EW	100 max
19Jan62 to date	4x torsion	0.8		NS, EW	4 max
01May59-29Aug62	Press-Ewing	30.0	90.0	NS, EW, Z	
Aug64 to date	Press-Ewing	15.0	30.0	Z	1,000 at T_o
19Jun64 to date	*Press-Ewing***	30.0	Broadband	N45°W, N45°E, Z	
Mar64-30Mar71	Press-Ewing ULP****	45.0	300.	N45°E	700 at T_o

\# Recorded at Berkeley on Develocorder.
* Recorded at Berkeley on magnetic tape.
** Changed in 1954 to T = 0.8 sec, Mag 2,800 max. Moved to BKS Jul62.
*** Before 02Aug65 NS, EW, Z.
**** Before 22Apr68 EW

CLS

CALISTOGA(CLS), CALIFORNIA
Established by the University of California in 1961
on the Terrance Kirk Ranch
38° 38!2 North 122° 35!1 West Elevation 457 meters
Foundation material is Alluvium overlying Quaternary Volcanic Flows

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
1961 to 21Dec64	#Benioff 14.7kg	1.0	0.2	Z	60,000 at T_o

CNC

CONCORD(CNC), CALIFORNIA
Established by Diablo Valley College in 1960
in cooperation with the University of California
37° 58!0 North 122° 04!3 West Elevation 36 meters
Foundation material is Quaternary Alluvium overlying Franciscan

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
12Sep60-06Dec66	#Benioff 100kg	1.0	0.2	Z	5,800 at T_o

Operation of station was assumed by Diablo Valley College on 6 December 1966 and telemetering discontinued.

COR

CORVALLIS(COR), OREGON
Established by Oregon State University in 1959
44° 35!1 North 123° 18!2 West Elevation 123 meters
Foundation material is Alluvium overlying Quaternary Volcanic Flows

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
1950 to 1962	Slichter	1.0		NS, EW, Z	
	Wilson-Lamison	1.0	1.5	Z	

In 1962 COR was established as WWSSN station under Oregon State University. Records for the period 1950 to 1962 are retained by Oregon State University.

FAL

FALLON(FAL), NEVADA
Established by the University of California in 1956
in the City Hall of Fallon, Nevada
36° 28!4 North 118° 46!6 West Elevation 1207 meters
Foundation material is Quaternary Alluvium

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
02Jul56-Jun57	Short-period Sprengnether, DH	2.0	2.0	NS, EW, Z	

FER

FERNDALE(FER), CALIFORNIA

Established by the University of California in 1933
40° 34!0 North 124° 16!0 West Elevation 17 meters
Foundation material is Quaternary Sandstone (loose)

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
Jan33 to 1962	Bosch-Omori 25kg	10-15		EW	50 max
Jan36 to 1962	Bosch-Omori 25kg	10-15		NS	50 max

The station was transferred to the City of Ferndale in 1962. Records for the period 1933-1962 are available at the University of California.

FHC

FICKLE HILL(FHC), CALIFORNIA

Established by the University of California in 1968
in cooperation with Humboldt State College
40° 48!1 North 123° 59!1 West Elevation 610 meters
Foundation material is Jurassic/Cretaceous Siltstone over Graywacke (Franciscan)

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
10Dec68 to date	#Benioff 14.7kg	1.0	0.2	Z	80,000 at T_o

FRE

FRESNO(FRE), CALIFORNIA

Established by the University of California in 1935
36° 46!1 North 119° 47!8 West Elevation 88 meters
Foundation material is Quaternary Alluvium

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
28Nov35-27Oct47	Wood-Anderson	0.9		NS	3,000 max
27Oct47-1953	Sprengnether, DH	~2.0	~2.0	NS, EW, Z	
1953-02Mar71**	Sprengnether, DH	2.0	1.9	NS	2,900 at T_o
1953-02Mar71**		1.8	1.8	EW	2,300 at T_o
1953-30Mar67**		1.8	2.0	Z	4,500 at T_o
30Mar67-02Mar71	Benioff 14.7kg	1.0	0.2	Z	8,000 at T_o

** Station was closed from 30Dec66 to 30Mar67. Operation was transferred to Friant in March 1971.

FRI

FRIANT(FRI), CALIFORNIA
Established by the University of California in 1971
in cooperation with the Bureau of Reclamation
36° 59!5 North 119° 42!5 West Elevation 119 meters
Foundation material is Quaternary Alluvium

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
09Mar71 to date	#Benioff 14.7kg**	1.0	0.2	Z	64,000 at T_o

** Recorded locally on Helicorder.

GCC

GRANITE CREEK(GCC), CALIFORNIA
Established by the University of California in 1965
in cooperation with Richard E. Randolph in Santa Cruz area
37° 01!8 North 121° 59!8 West Elevation 122 meters
Foundation material is Jurassic Granite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
Feb65-12Jan67	#*Benioff 14.7kg	1.0	0.2	Z	50,000 at T_o
12Jan67-08Jan71	#*Willmore	3.0	0.2	N45°E	
08Jan71 to date	#Benioff 14.7kg	1.0	0.2	Z	50,000 at T_o

HRC

HARRIS RANCH(HRC), CALIFORNIA
Established by the University of California in 1965
transferred from Vineyard(VIN)
36° 45!9 North 121° 24!8 West Elevation 230 meters
Foundation material is Pliocene Alluvium in the San Andreas fault zone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
17Mar66-11Jul166	#Benioff 14.7kg	1.0	0.2	Z	25,000 at T_o

Operation transferred to San Andreas Geophysical Observatory (SAO) on July 11, 1966.

JAS

JAMESTOWN(JAS), CALIFORNIA
Established by the University of California in 1964
in cooperation with the Department of Water Resources
37° 56!8 North 120° 26!3 West Elevation 457 meters
Foundation material is pre-Cretaceous Metamorphic rocks

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
28Aug64 to date	Benioff 100kg	1.0	0.75	NS, EW, Z	250,000 at T_o
28Aug64 to date	#*Benioff 14.7kg	1.0	0.2	Z	760,000 at T_o
16Dec70 to date	*Willmore	3.0	0.2	N45°E	

LLA

LLANADA(LLA), CALIFORNIA
Established by the University of California in 1961
on the Charles McCullough Ranch
36° 37!0 North 120° 56!6 West Elevation 475 meters
Foundation material is Quaternary Alluvium overlying Sandstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
08Sep61 to date	#Benioff 14.7kg	1.0	0.2	Z	75,000 at T_o

MHC

LICK OBSERVATORY, MOUNT HAMILTON(MHC), CALIFORNIA
Established by the University of California in 1887
37° 20!5 North 121° 38!5 West Elevation 1282 meters
Foundation material is Jurassic-Cretaceous Franciscan
Graywacke and Greenstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
24Apr1887-23Mar11	Ewing 3 Component	5.0		NS, EW, Z	
24Apr1887-23Mar11	Ewing Duplex	5.0		Hor all Azimuths	
23Mar11-30Sep30	Wiechert Hor 160kg	4 to 8**		NS, EW	80 max
23Mar11-30Sep30	Wiechert Vert 80kg	4 to 8**		Z	80 max
08Apr28 to date	Wood-Anderson***	1.0		SN, EW	3,000 max
12Feb48-Jun63	Benioff 100kg	1.0	0.4	Z	100,000 at T_o
May62 to date	#*Benioff 14.7kg	1.0	0.2	Z	85,000 at T_o
08Nov67 to date	*Willmore	3.0	0.2	N45°E	

** During this period the free period was not constant. For precise information refer to the Bulletin of the Seismographic Station.
*** Changed in 1954 to T_o=0.8 sec, Magnification 2,800 max.

MIN

MT. LASSEN, MINERAL(MIN), CALIFORNIA
Established by the University of California in 1939
in cooperation with the Lassen Volcanic National Park
40° 21' North 121° 35' West Elevation 1495 meters
Foundation material is Pliocene Volcanic Debris

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
02Jan39 to date	Wood-Anderson	0.8		EW	2,800 max
Mar47 to date	Wood-Anderson	0.8		SN	2,800 max
06Feb48 to date	Benioff 100kg	1.0	0.4	Z	60,000 at T_o
08Oct68-30Jun71	#Benioff 14.7kg	1.0	0.5	Z	90,000 at T_o

MLC

MANZANITA LAKE(MLC), CALIFORNIA
Established by the University of California in 1956
in cooperation with the National Park Service
40° 32!2 North 121° 33!7 West Elevation 1800 meters
Foundation material is Quaternary Volcanic Pyroclastic Rocks

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
Jun56 to date	Loucks-Omori	6.0		NS, EW	250 max

In service only during summer months.

MNV

MINA(MNV), NEVADA
Established by the Lawrence Livermore Laboratory,
University of California in 1969
38° 26!0 North 118° 09' West Elevation 1524 meters
Foundation material is Mesozoic Limestone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
1969 to date	#Broadband 55100 instrument filtered to give short-period response	20		Z	600,000 max

ORV

OROVILLE(ORV), CALIFORNIA
Established and operated by the Department of Water Resources in 1963
39° 33!3 North 121° 30!0 West Elevation 360 meters
Foundation material is Eocene Basalt

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
1963-31Aug68	Benioff 100kg	1.0	0.75	NS, EW, Z	
1963-31Aug68	Geotech S11 & S12, 10kg	20.0	100.0	NS, EW, Z	
28Feb69-22Jul70	#Geotech S11, 10kg	20.0	100+	Z	
22Jul70 to date	#Benioff 100kg	1.0	4.5Hz+	Z	
Jan71 to date	*Willmore	3.0	0.2	N45°E	

Paper records for 1963-1968 are on file with the Department of Water Resources.

+ Galvanometer response effected electronically.

PAC BRANNER STATION(PAC), STANFORD UNIVERSITY, PALO ALTO, CALIFORNIA
Established by Stanford University in 1927
in cooperation with the University of California
with full operations assumed by the University of California in 1947
37° 35!1 North 122° 10!8 West Elevation 83 meters
Foundation material is Quaternary Sandstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
21Nov27-31May65	Wood-Anderson**	1.0		NS, EW	3,000 max
03Feb48-31May65	Benioff 100kg	1.0	0.4	Z	10,000 at T_o

** Changed in 1954 to T_o=0.8 sec, Magnification 2,800 max.

PCC PILARCITOS CREEK(PCC), CALIFORNIA
Established by the University of California on Sare Ranch in 1965
37° 30!3 North 122° 22!9 West Elevation 91 meters
Foundation material is Jurassic Granodiorite (weathered)

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
02Apr65 to date	*#Benioff 14.7kg	1.0	0.2	Z	50,000 at T_o

PRC POINT REYES(PRC), CALIFORNIA
Established by the University of California in 1961
in cooperation with the Federal Aviation Agency at Point Reyes Station
38° 04!8 North 122° 52!0 West Elevation 404 meters
Foundation material is Alluvium underlaid by Granite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
09Sep61-21Dec64	#Benioff 14.7kg	1.0	0.2	Z	50,000 at T_o

PRI PRIEST(PRI), CALIFORNIA
Established by the University of California in 1961
in cooperation with the Federal Aviation Agency at Charlie Peak Site
36° 08!5 North 120° 39!9 West Elevation 1187 meters
Foundation material is Jurassic Altered Serpentine

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
15Sep61 to date	#*Benioff 14.7kg	1.0	0.2	Z	80,000 at T_o

PRS

PARAISO(PRS), CALIFORNIA
Established by the University of California in 1961
at Paraiso Hot Springs
36° 19!9 North 121° 22!2 West Elevation 363 meters
Foundation material is Jurassic Granodiorite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
07Jul61-12Jan67	#*Benioff 14.7kg	1.0	0.2	Z	75,000 at T_o
12Jan67-03Dec70	#*Willmore	3.0	0.2	N45°E	
03Dec70 to date	#Benioff 14.7kg	1.0	0.2	Z	75,000 at T_o

REN

RENO(REN), NEVADA
Established by the University of California in 1948
in cooperation with the University of Nevada, Reno
39° 32!3 North 119° 48!8 West Elevation 1375 meters
Foundation material is Quaternary Volcanic Pyroclastic rocks (old river bed)

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
13Dec48-07Mar63	Sprengnether, DH	1.8	1.87	Z	4,200 at T_o
13Dec48-07Mar63	Sprengnether, DH	1.9	1.85	NS	2,500 at T_o
13Dec48-07Mar63	Sprengnether, DH	1.9	1.9	EW	3,000 at T_o

Station was transferred to the University of Nevada on March 7, 1963. Later readings at Reno (REN) and other Nevada stations may be obtained from the University of Nevada, Reno.

RU

RUTH(RU), NEVADA
Established by the California Institute of Technology in 1960
in cooperation with the University of California and Kennecott Copper Corp.
39° 14' North 114° 59' West Elevation 2270 meters
Foundation material is Paleozoic Ely Formation

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
04Jan60-01Jun61	Press-Ewing moving coil	30.0	90.0	NS, EW, Z	

SAO SAN ANDREAS GEOPHYSICAL OBSERVATORY(SAO), CALIFORNIA
Established by the University of California in 1966
36° 45!9 North 121° 26!7 West Elevation 350 meters
Foundation material is Jurassic-Cretaceous Gabilan Granite

SAGO CENTRAL

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
11Jul66 to date	#Benioff 14.7kg	1.0	0.2	Z	75,000 at T_o
16Sep66 to date	#Sprengnether++ S7000, 0.7kg	0.2	20 Hz**	Z	800,000 max
13Jan67-14Nov70	#*Willmore	3.0	0.2	N45°E	
01Jun67 to date	Magnetometer+++	3 Comp fluxgate			
02Aug67 to date	Sprengnether+++ S5007, 10.7kg++	30.0	10 Hz*** vel & displ	NS, EW, Z	
30Nov67 to date	Telluric current 1km+++			NW, SW	

SAGO EAST
36° 48!4 North 121° 24!4 West Elevation 130 meters
Foundation material is Tertiary Sediments

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
01Dec67 to date	Sprengnether+++ S5007, 10.7kg++	15.0	10 Hz*** displ	NS, EW	
01Dec67 to date	Sprengnether++ S7000, 0.7kg	0.2	20 Hz**	Z	

SAGO NW
36° 47!5 North 121° 27!0 West Elevation 490 meters
Foundation material is San Andreas Fault Zone Gouge

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
01Jul67 to date	Sprengnether++ S7000, 0.7kg	0.2	20 Hz**	Z	

SAGO SOUTH (tunnel installation)
36° 45!2 North 121° 23!7 West Elevation 400 meters
Foundation material is Gabilan Granite with Carbonate inclusions

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
30Nov68 to date	Sprengnether++ S7000, 0.7kg	0.2	20 Hz**	Z	

++ Recorded on magnetic tape at SAGO CENTRAL
+++ Recorded on strip chart at SAGO CENTRAL
** Galvanometer response effected electronically
*** Broadband systems with flat velocity or displacement response. Galvanometer response effected electronically.

SCC

SANTA CRUZ(SCC), CALIFORNIA
Established by the University of California in 1961
in cooperation with the City of Santa Cruz
37° 00!4 North 121° 59!8 West Elevation 128 meters
Foundation material is Pleistocene Sandstone(loose)

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
11Jun61-Feb65	#Benioff 14.7kg	1.0	0.2	Z	10,000 at T_o

Operations moved to Granite Creek (GCC) in February 1965.

SFB

SAN FRANCISCO(SFB), CALIFORNIA
Established by the University of California in 1931
in cooperation with the California Academy of Sciences
37° 46' North 122° 28' West Elevation 67 meters
Foundation material is Quaternary Loose Sand
Station moved to the University of San Francisco in November 1935
37° 46' North 122° 27' West Elevation 100 meters
Foundation material is Franciscan Sandstone

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
Apr31-17Dec64	Wood-Anderson**	1.0		NS, EW	3,000 max
Oct49-17Dec64	Lehner-Griffith	1.0	0.28	Z	ca 10,000 at T_o

** Changed in 1954 to T_o =0.8 sec, magnification 2,800 max.

SH

SHASTA(SH), CALIFORNIA
Established by the Bureau of Reclamation in 1942
Operation transferred to the University of California in 1952
40° 41!7 North 122° 23!3 West Elevation 312 meters
Foundation material is Devonian Metavolcanics

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
01Jul52-30May64	Benioff 50kg moving coil	1.5	0.45	NS, EW, Z	ca 50,000 at T_o

35mm film records.

UKI

UKIAH(UKI), CALIFORNIA
Established by U.S. Coast and Geodetic Survey in 1965
39° 08!2 North 123° 12!6 West Elevation 199 meters
Foundation material is Alluvium overlying Granite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
04Feb65-06Nov66	Benioff 14.7kg	1.0	0.2	Z	6,800 at T_o

VIN

VINEYARD(VIN), CALIFORNIA
Established by the University of California in 1959
in cooperation with W. A. Taylor and Co.
39° 45!0 North 121° 23!1 West Elevation 330 meters
Foundation material is Quaternary Alluvium overlying weathered Granite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
03Feb59-22Mar65	Wood-Anderson	0.8		NS, EW**	2,800 max
03Feb59-08Apr60	Slichter-Marion	1.0	0.5	Z	
08Apr60-May61	Benioff 100kg	1.0	0.2	Z	30,000 at T_o
May61-22Mar65	100x Torsion	0.8		NS	100 max
22Mar65-26Oct65	#*Sprengnether, DH	2.0	0.2	NS, EW, Z	
10Feb65-09Mar66	#Benioff 14.7kg	1.0	0.2	Z	

** Direction of motion changed to SN, WE on 8 April 1960.

VIT

VINEYARD(VIT), CALIFORNIA
Established by the University of California in 1961
in cooperation with W. A. Taylor and Co.
36° 45!0 North 121° 23!3 West Elevation 360 meters
Foundation material is pre-Cretaceous Dolomite within Gabilan Granite

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
31May61-10Feb65	#Benioff 14.7kg	1.0	0.2	Z	36,000 at T_o

Operation of telemetered Benioff was transferred to Vineyard (VIN) in February 1965, then to Harris Ranch (HRC) in March 1966.

YER

YERINGTON(YER), NEVADA
Established by the University of California in 1956
in cooperation with the City of Yerington, Nevada
38° 59!3 North 119° 09!6 West Elevation 1335 meters
Foundation material is Quaternary Alluvium

Dates of Operation	Type of Instrument	T_o sec	T_g sec	Component	Magnification
03Jul56-Jun57	Short-period Sprengnether, DH	2.0	2.0	EW, Z	

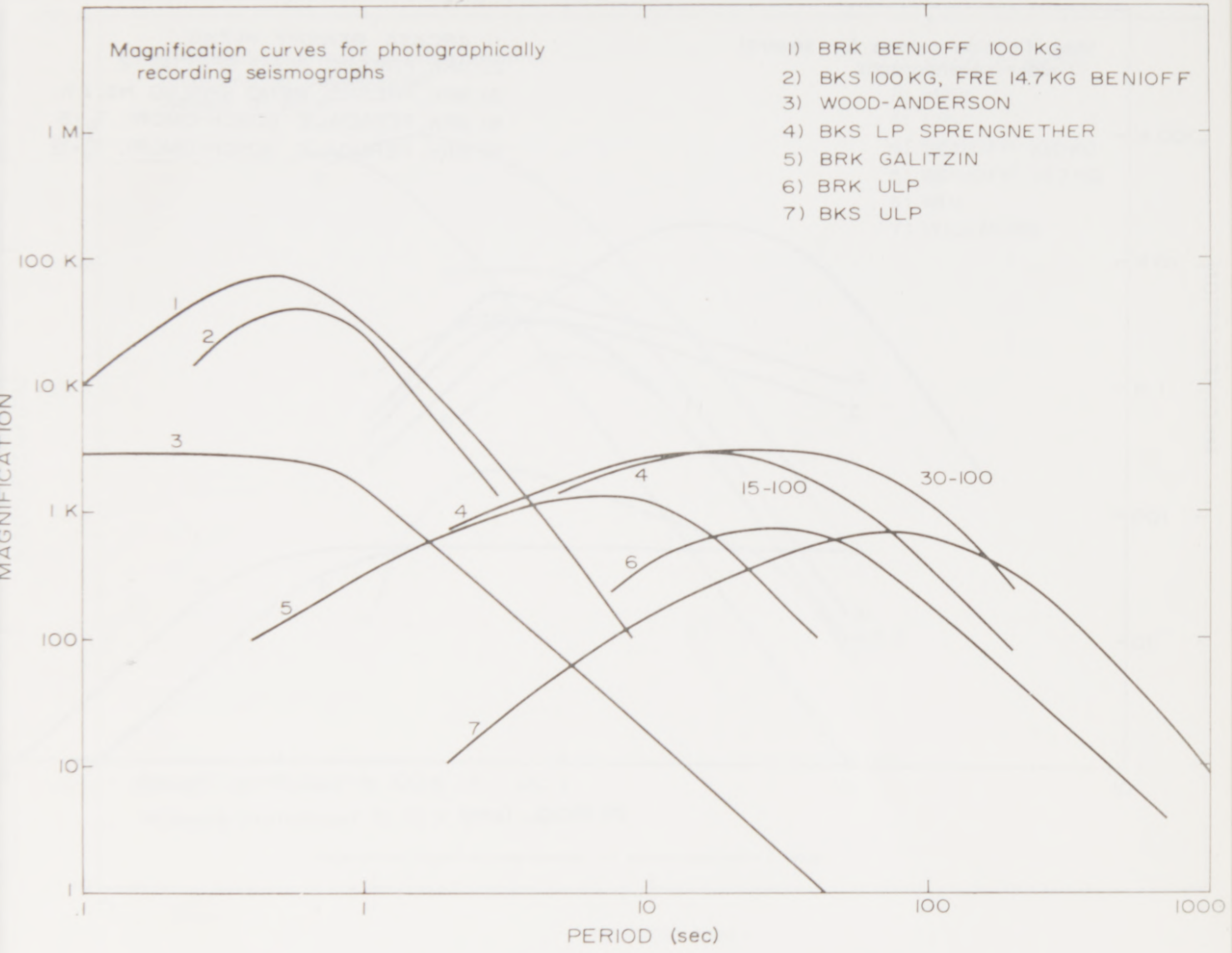

Figure 2 - Response curves for photographically recording seismographs. BKS Benioff and Sprengnether are the WWSSN system. ULP refers to the ultra-long period systems. See Section II.

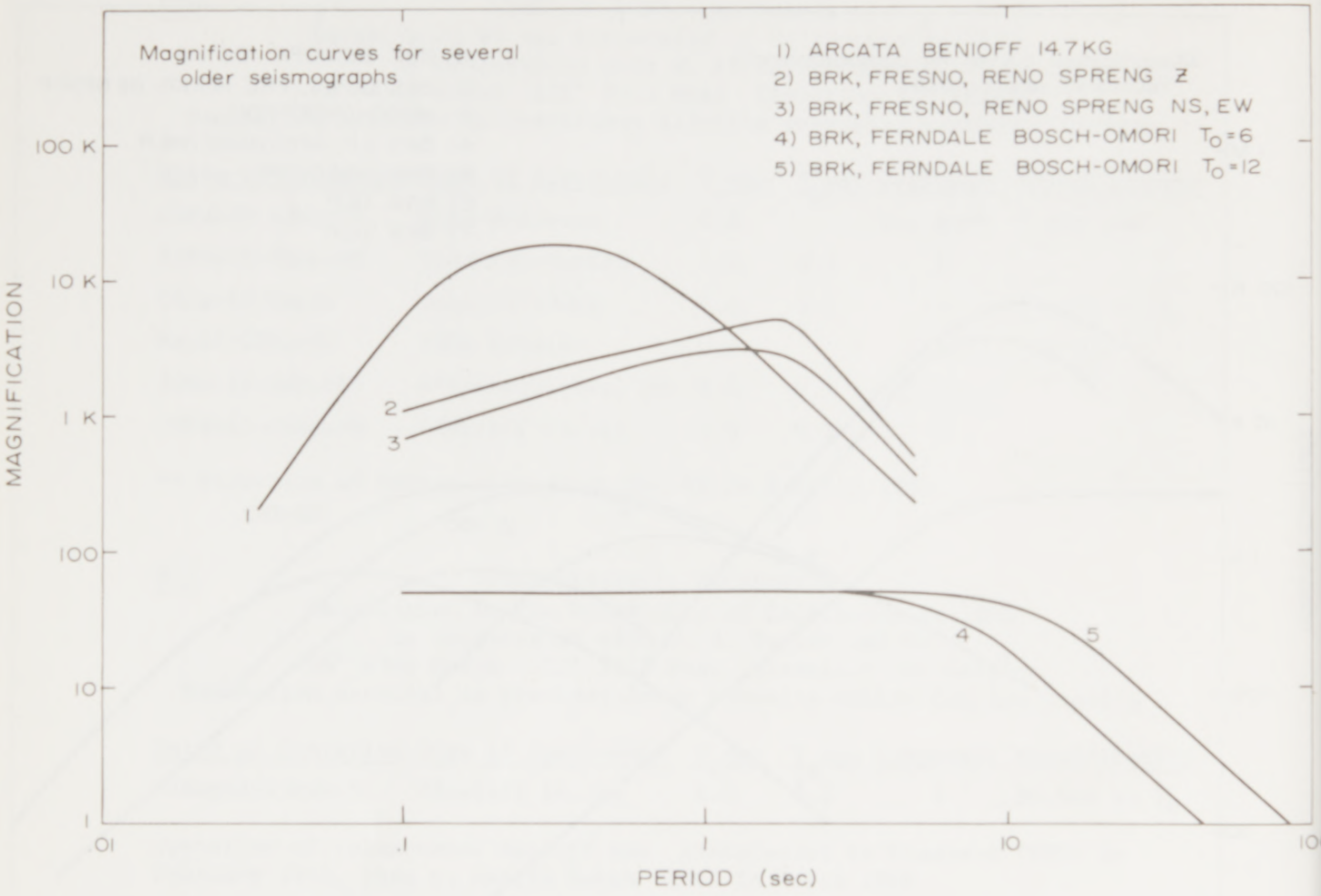

Figure 3 - Response curves for seismographs no longer in operation.

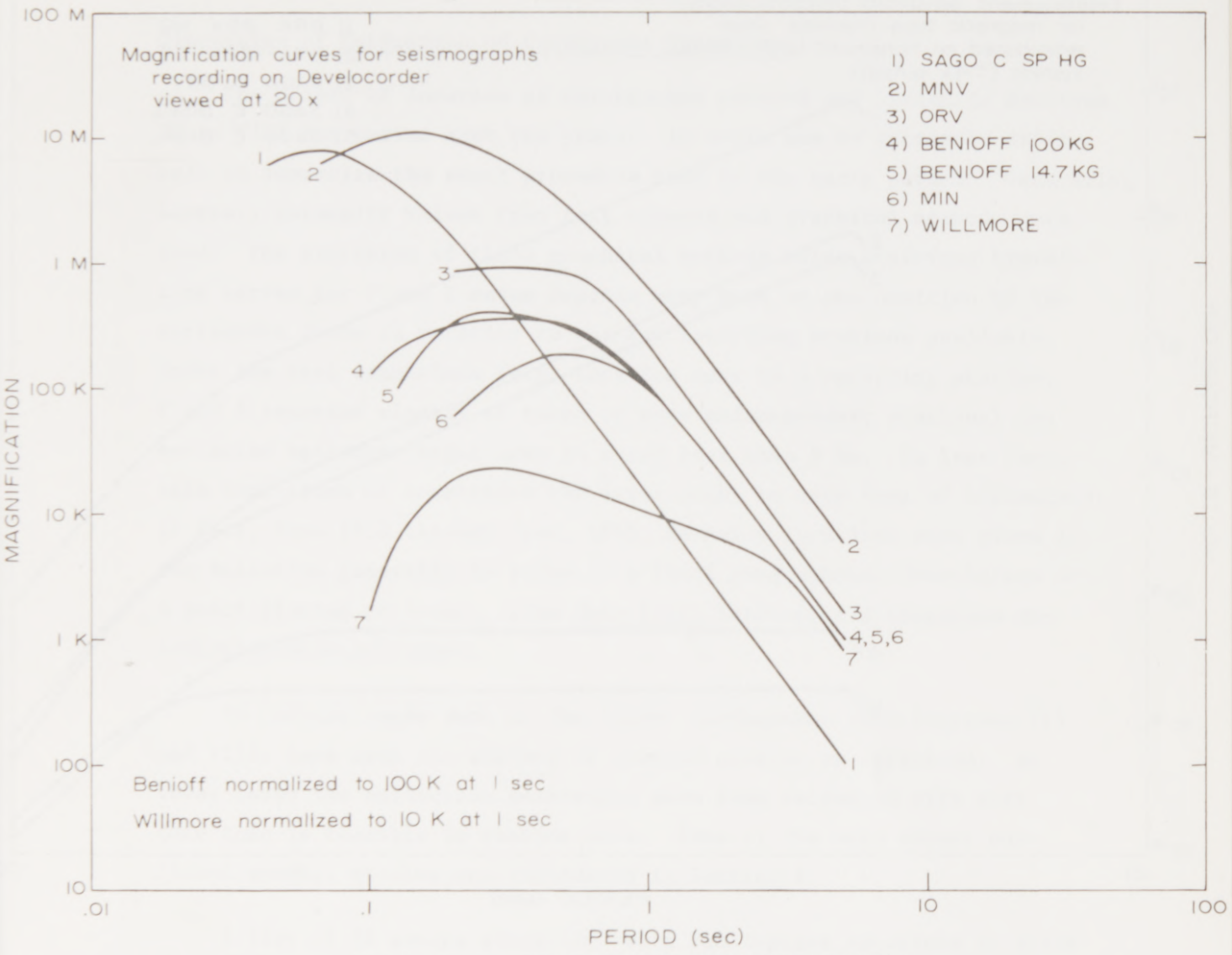

Figure 4 - Response curves for Develocorder channels when viewed at 20 X enlargement. The Benioff and Willmore curves (4, 5, and 7) represent several different stations and are normalized at 1 sec period. See Section II for 1 sec gain appropriate to a specific station. The SAGO Central short-period high gain curve (1) is a 5-20 Hz high-gain microearthquake system.

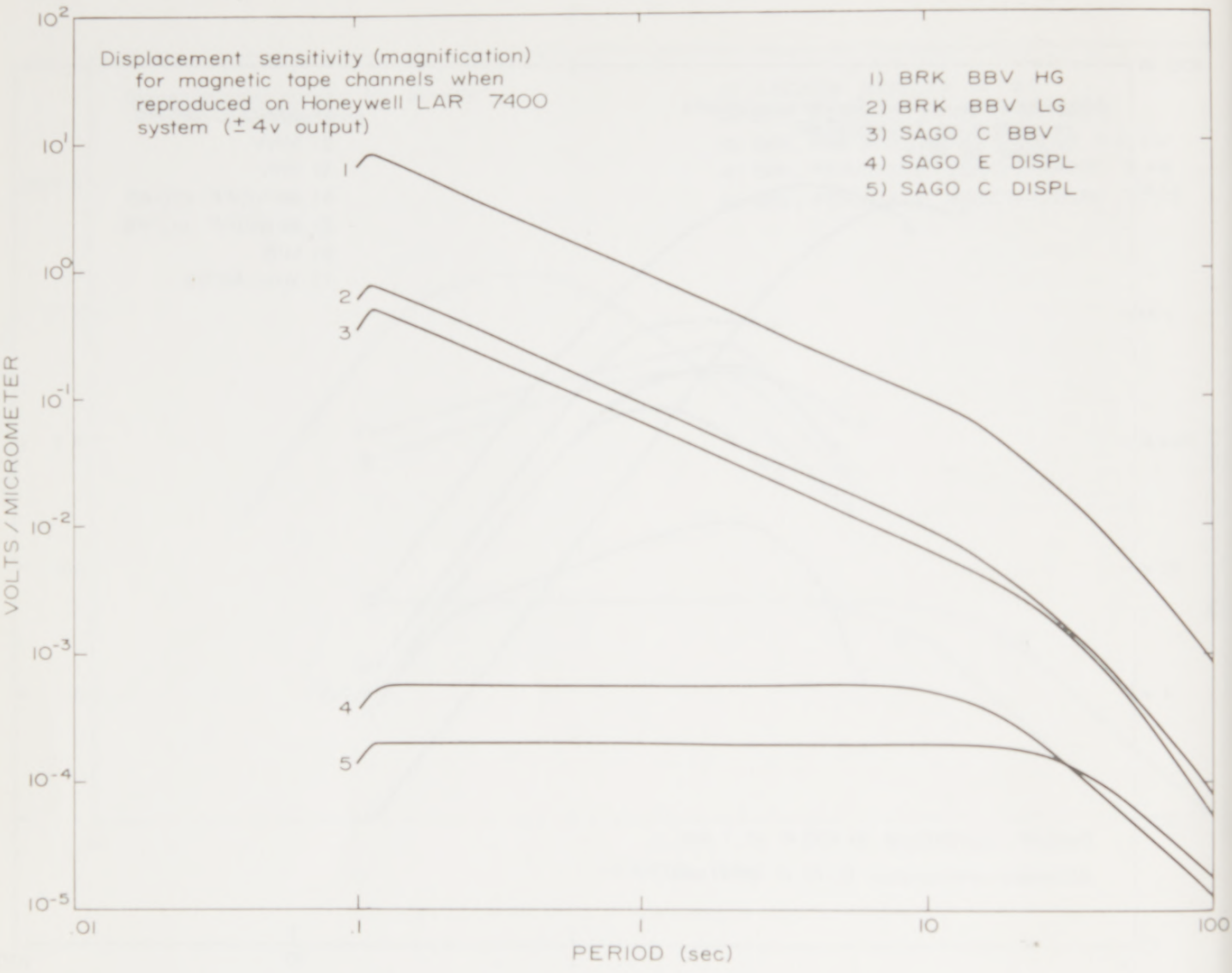

Figure 5 - Response curves for broadband velocity (BBV) and displacement seismographs recorded on slow speed FM magnetic tape at BKE and SAGO.

IV. SEISMICITY MAPS

Discussion of Estimation of Earthquake Parameters.

The method of location of earthquakes plotted and listed in Sections IV to VIII has varied over the years. It would now be extremely difficult to summarize the exact procedure used in the early period. Generally, however, intensity values from felt reports and graphical methods were used. The precision of these graphical methods using empirical travel-time curves for P and S waves depends very much on the position of the earthquake focus in relation to the few recording stations available. Under the best conditions (e.g. location near to a recording station, P and S recorded clearly at three or more seismographic stations) the estimated epicenter might have an error less than 5 km. In less favorable conditions of constraint the error might be many tens of kilometers. In fact, from 1910 through June, 1941, Berkeley locations were given in the Bulletins generally in terms of a local geographical description or a point plotted on a map. From July 1941, latitude and longitude coordinates were published.

In certain cases some of the larger earthquakes (see Sections VII and VIII) have been the subject of special studies or revisions. In these cases the earthquake parameters have been estimated with more care than is feasible in routine work. Some of the more recent published special studies are referenced in Section X.

A list of 28 shocks since 1957 with fault-plane solutions is given in "Seismological Evidence on the Tectonics of Central and Northern California and the Mendocino Escarpment", (Bolt, Lomnitz and McEvilly, 1968). As discussed in this paper, the average uncertainty for epicenter locations during the last decade in the Coast Ranges, when a telemetry network of stations was operated, is 5 km. Focal depths are generally less precise, but a major step forward was the discovery about 1963 that depth did not exceed 15 or so km in this region. In Northern California and in the Gorda Basin area, resolution is generally less than to the south and submarine earthquakes below magnitude 4.0 are usually not

recorded by the Wood-Anderson seismographs, for example, at the Arcata station (see Section II) beyond a distance of 200 km. Since December 1968, the Benioff seismograph at the new station at Fickle Hill (magnification 80,000 at 1 sec) has improved detection capabilities in the region.

Since 1964, the majority of earthquakes in Central California have been located uniformly, using a computer program called LOCAL (Bolt and Turcotte, 1964) which computes a hypocenter by minimizing the sum of squared residuals of first P (and S) arrivals relative to theoretical times; a provisional solution is adjusted successively until a convergence criterion is met. The theoretical times are specified by a crustal model with two horizontal layers of 12 km and 18 km thickness; P and S velocities are (5.6, 3.3), (6.7, 3.9) and (8.0, 4.7) km/sec, respectively.

The LOCAL program has two features of some interest. First a sequence of starting focal depths can be stepped out; at each step the particular depth is held constant in the first iteration before freeing this parameter for further adjustment. Secondly, the residual weighting scheme depends upon the distribution of source-station bearings and uses rotation of azimuthal quadrants from the cardinal directions to maximize the number of observations in each.

Magnitudes are not available for the whole period. The few values given in the period 1910-1931 are from Gutenberg and Richter's Seismicity of the Earth. From 1932 through 1941, they are from this source augmented by local magnitudes assessed at the Seismological Laboratory, California Institute of Technology. From 1942 local magnitudes were calculated at Berkeley using Richter's definition based upon Wood-Anderson recordings at U.C. Berkeley network stations. Station adjustments were estimated in order to bring the mean Berkeley M_L magnitude in agreement with the mean Pasadena magnitude.

Summary values for the regional seismicity rates for Northern California have recently been published (see Bolt and Miller, 1971). The recurrence of earthquakes recorded in the period 1962-1969 was fitted to the log law

$$\log N = a - bM,$$

when N is the number of events per year per 1000 sq km for each region, M is the Richter Magnitude, and a and b are constants. Results are as follows.

A. All Central and Northern California

$b = 0.78 \pm 0.04$, for 661 earthquakes with $3.0 \leq M \leq 5.1$.

B. Cape Mendocino Area Region

$b = 0.67$, with considerable scatter.

C. Coast Range Region

$b = 1.00 \pm 0.04$, for 265 earthquakes with $3.0 \leq M \leq 4.4$.

In the region covered by this catalogue, the statistics indicate that the interoccurrence time for an earthquake of about magnitude 5 is 2-1/2 years; for an earthquake of about magnitude 4 it is 13 months.

A number of comments on the Catalogue Tables (Section VI) are in order. First, map numbers in the first column are keyed to epicenters plotted on the corresponding epicenter map. A line under a map number indicates that more than one earthquake occurred in nearly the same location or that an aftershock sequence or swarm occurred at this location. All aftershocks which were located are included in the listings, however.

An asterisk (*) appearing before a map number indicates that the location was determined with focal depth fixed at zero (surface focus). On the other hand, a dash (-) appearing in the map number column indicates that the epicenter is outside the boundaries of the regional map. A dollar sign ($) superscript on the map number denotes a revised solution, compared to the original Bulletin solution. The convention is that the symbols CIT indicate that hypocenter data are from California Institute of Technology, and FELT indicates the source is Abstracts of U.S. Earthquakes.

From January 1962, the column headed Q which contained qualitative indications of the "quality" of a solution was replaced by a column

stating the number of stations used in the least squares estimation of location. It was felt that such a number gave a more quantitative indication of accuracy ("quality"), so long as a uniform telemetry network of stations was available.

During the period 1950 through 1961, many (but, of course, not all) earthquakes with magnitude smaller than 2.5 are listed, but then another selection rule was adopted. From 1962, magnitude 2.5 is generally the lower limit of events included in the coastal region unless a felt report was available; during the same period, the magnitude threshold was 3.0 for Northern California and 4.0 for neighboring Nevada.

On 20 December 1932 the intensity scale was changed from the Rossi-Forel to the Modified Mercalli, see Section IX.

SEISMICITY OF NORTHERN CALIFORNIA 1910-1919

UNIVERSITY OF CALIFORNIA
SEISMOGRAPHIC STATIONS
BERKELEY, CALIFORNIA

PROGRAM BY JOHN DEAN
REVISED BY KIRK THESE

EARTHQUAKE MAGNITUDE KEY

- MAGNITUDE AND LOCATION UNCERTAIN (FELT REPORTS)
- LESS THAN 3.0
- 3.0 TO 3.9
- 4.0 TO 4.9
- 5.0 TO 5.9
- 6.0 OR GREATER

SCALE
0 25 50 75 100
KMS

Figure 7 - Seismicity Map of Northern California, 1920-1929

SEISMICITY OF NORTHERN CALIFORNIA 1930-1939

UNIVERSITY OF CALIFORNIA
SEISMOGRAPHIC STATIONS
BERKELEY, CALIFORNIA

PROGRAM BY JOHN DEAN
REVISED BY KIRK THILE

EARTHQUAKE MAGNITUDE KEY

- MAGNITUDE AND LOCATION UNCERTAIN (FELT REPORTS)
- LESS THAN 3.0
- 3.0 TO 3.9
- 4.0 TO 4.9
- 5.0 TO 5.9
- 6.0 OR GREATER

SCALE

0 25 50 75 100 KMS

SEISMICITY OF NORTHERN CALIFORNIA 1940-1949

UNIVERSITY OF CALIFORNIA
SEISMOGRAPHIC STATIONS
BERKELEY, CALIFORNIA

PROGRAM BY JOHN BERG
REVISED BY KIRK THIES

EARTHQUAKE MAGNITUDE KEY

- × MAGNITUDE AND LOCATION UNCERTAIN (FELT REPORTS)
- · LESS THAN 3.0
- ◇ 3.0 TO 3.9
- □ 4.0 TO 4.9
- ◇ 5.0 TO 5.9
- ○ 6.0 OR GREATER

SCALE
0 25 50 75 100
KMS

Figure 10 - Seismicity Map of Northern California, 1950-1959.

Figure 11 - Seismicity Map of Northern California, 1960-1969.

Figure 12 - Seismicity Map of Northern California, 1970-1972.

V. EARTHQUAKE CATALOGUE (1910-1949)

MONTH	DAY	YEAR	HR	MIN	SEC	LAT	LONG	QUALITY	MAG	SOURCE	RSFTCAOTRIDOINN	FELT	MAXIMUM INTENSITY, COMMENTS
1/ 1/1910			-0	--0	--0.	37.83	122.25	D				F	BERKELEY.
1/29/1910			20	-56	--0.	40.83	124.17	D				F	ROHNERVILLE. ALSO FELT AT EUREKA.
2/15/1910			5	-56	--0.	40.83	124.17	D				F	ROHNERVILLE. ALSO FELT AT EUREKA.
2/26/1910			5	-55	--0.	37.75	122.25	D				F	ALAMEDA.
2/26/1910			19	-50	--0.	37.75	122.25	D				F	ALAMEDA.
2/28/1910			21	-30	--0.	37.75	122.25	D				F	ALAMEDA.
3/ 7/1910			23	-32	--0.	36.83	121.42	D				F	HOLLISTER.
3/ 8/1910			9	-30	--0.	36.17	120.67	D				F	PRIEST VALLEY.
3/11/1910			-0	--0	--0.	37.00	121.58	D				F	CAMPBELL.
3/11/1910			6	-57	--0.	36.92	121.67	D				F	VII MONTEREY BAY REGION. FELT OVER AN AREA IN EXCESS OF 50,000 SQUARE MILES, TO THE NORTH TO NEVADA CITY, SE TO VISALIA, AND SOUTH TO SAN LUIS OBISPO. VII AT APTOS AND WATSONVILLE. VI AT HOLLISTER, SANTA CRUZ, MONTEREY, AND SALINAS. V AT OAKLAND AND SAN FRANCISCO. II AT NEVADA CITY, VISALIA, AND SAN LUIS OBISPO. REPORTED FROM ALAMEDA, SAN LEANDRO, OAKLAND, CAMPBELL, PRIEST VALLEY, JOLON, SANTA CRUZ, NAPA, NEVADA CITY, AND PEACHLAND (SEBASTOPOL).
3/19/1910			-3	--0	--0.	37.75	122.25	D				F	ALAMEDA.
3/19/1910			3	-11	--0.	40.83	124.17	D				F	EUREKA. FELT ALSO AT ANDERSON, NEVADA CITY, ROHNERVILLE, BLOCKSBURG, DYERVILLE, UPPER MATTOLE, AND BRANSCOMB. SUBMARINE ORIGIN OFF CAPE MENDOCINO.
3/19/1910			3	-13	--0.	40.83	124.17	D				F	EUREKA.
3/19/1910			1	-30	--0.	39.17	122.92	D				F	UPPER LAKE.
3/24/1910			-0	--0	--0.	37.75	122.25	D				F	ALAMEDA.
3/24/1910			6	-45	--0.	36.83	121.42	D				F	HOLLISTER.
4/22/1910			14	-53	--0.	37.75	122.25	D				F	ALAMEDA.
4/30/1910			18	-25	--0.	36.17	120.67	D				F	PRIEST VALLEY. THREE SHOCKS, THE SECOND ONE QUITE VIOLENT.
5/ 2/1910			14	--0	--0.	37.75	122.25	D				F	ALAMEDA.
5/ 5/1910			10	--0	--0.	38.25	119.25	D				F	IV BRIDGEPORT.
5/ 6/1910			16	-40	--0.	37.33	118.42	D				F	VII NEAR BISHOP. AREA OF PERCEPTIBILITY MORE THAN 50,000 SQUARE MILES. CAUSED ROCK SLIDES IN ROCK CREEK CANYON AND TIPPED SHELVES IN BISHOP. FELT BY A FEW IN BAKERSFIELD AND FEEBLY IN SACRAMENTO. FELT BY MANY IN LINDSAY, VISALIA, TULARE, REEDLEY, DINUBA, AND FRESNO. ALSO FELT IN HOLLISTER, OASIS, NORTHEAST OF BISHOP, AND EAST INTO BLAIR, NEVADA.
5/10/1910			5	--0	--0.	39.33	121.17	D				F	DOBBINS. PERHAPS SAME SHOCK AS FOLLOWING.
5/10/1910			5	-45	--0.	38.67	119.83	D				F	TAMARACK.
5/16/1910			6	-20	--0.	38.08	120.58	D				F	ANGEL'S CAMP. HEAVY.
5/16/1910			6	-25	--0.	38.08	120.58	D				F	ANGEL'S CAMP. HEAVY.
6/ 9/1910			18	-45	--0.	36.83	121.42	D				F	HOLLISTER. ALSO AT CAMPBELL.
6/10/1910			6	-30	--0.	37.75	122.25	D				F	ALAMEDA. TWO SHOCKS. ALSO FELT AT LIVERMORE, SAN JOSE, SAN FRANCISCO, AND WESTLEY.
6/13/1910			19	-40	--0.	37.75	122.25	D				F	ALAMEDA.

6/13/1910	19-41--0.	37.75	122.25	D		F ALAMEDA.
6/14/1910	18-30--0.	37.75	122.25	D		F ALAMEDA.
6/15/1910	18-25--0.	37.75	122.25	D		F ALAMEDA.
7/ 2/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
7/14/1910	4-45--0.	38.67	119.83	D		F TAMARACK.
7/15/1910	5--0--0.	38.67	119.83	D		F TAMARACK.
7/19/1910	7-35--0.	37.67	121.75	D		F LIVERMORE.
7/20/1910	-0--0--0.	37.83	122.25	D		F BERKELEY.
7/25/1910	-0--0--0.	37.83	122.25	D		F BERKELEY.
7/25/1910	17-42--0.	37.00	121.92	D		F APTOS AND SANTA CLARA.
7/26/1910	-0--0--0.	37.83	122.25	D		F BERKELEY.
7/27/1910	19-33--0.	37.75	122.25	D		F ALAMEDA.
7/27/1910	19-32--0.	37.75	122.25	D		F ALAMEDA.
8/ 4/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
8/ 5/1910	1-27--0.	40.83	124.17	D		F EUREKA. CLOCK STOPPED. VIBRATION LASTED 8 SECONDS. BLOCKSBURG AT 1-40-0.
8/ 5/1910	1-31-36.	39.25	121.00	D		F NEVADA CITY.
8/ 5/1910	1-31-36.	42.00	127.00	C	6.8	F OFF COAST, WEST OF CRESCENT CITY.
8/ 7/1910	-0--0--0.	40.25	124.17	D		F UPPER MATTOLE.
8/11/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
8/14/1910	-0--0--0.	40.25	124.17	D		F UPPER MATTOLE.
8/20/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
8/27/1910	4-47--0.	40.83	124.17	D		F EUREKA.
8/27/1910	5-15--0.	40.25	123.67	D		F BLOCKSBURG AND UPPER MATTOLE.
9/ 4/1910	3-33--0.	39.67	121.00	D		F LA PORTE. RATTLED WINDOWS.
10/ 4/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
10/15/1910	20-44--0.	39.17	122.92	D		F IV UPPER LAKE, NORTH LAKEPORT, AND HULLVILLE. ALSO AT UKIAH.
11/ 5/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
11/ 6/1910	-0--0--0.	37.33	121.92	D		F IDYLLWILD.
11/ 8/1910	-0--0--0.	37.33	121.92	D		F IDYLLWILD.
11/15/1910	23- 3--0.	37.75	122.25	D		F ALAMEDA.
11/25/1910	-0--0--0.	37.33	121.92	D		F SANTA CLARA.
11/27/1910	13-30--0.	37.75	122.25	D		F ALAMEDA. SHARP SHOCK ACCOMPANIED BY NOISE
12/ 5/1910	20-25--0.	37.25	122.00	D		F LOS GATOS. RECORDED AT BERKELEY.
12/ 8/1910	22--0--0.	37.75	122.25	D		F ALAMEDA.
12/12/1910	12-17--0.	37.75	122.50	D		F SAN FRANCISCO.
12/12/1910	17-28--0.	37.33	121.67	D		F III MT. HAMILTON. RECORDED AT BERKELEY.
12/13/1910	7-40--0.	40.83	124.17	D		F EUREKA.
12/15/1910	15-28--0.	37.33	121.67	D		F II MT. HAMILTON.
12/15/1910	19-45--0.	37.75	122.25	D		F ALAMEDA.
12/19/1910	13- 1--0.	37.33	121.67	D		F II MT. HAMILTON. FELT ALSO AT HOLLISTER AND LOS GATOS.
12/19/1910	15-28--0.	37.33	121.67	D		F III MT. HAMILTON.
12/24/1910	4--0--0.	37.75	122.25	D		F ALAMEDA.
12/29/1910	5-30--0.	36.67	121.67	D		F SALINAS.
12/31/1910	12-11--0.	36.83	121.42	D		F VII REGION OF HOLLISTER AND SALINAS. AT SALINAS BROKE WATER MAIN, LASTED ONE MINUTE. AT HOLLISTER LASTED 35-40 SECONDS, BUT LITTLE DAMAGE. III AT LICK OBSERVATORY AND OAKLAND. FELT AT LOS GATOS, CAMPBELL, ALAMEDA, LIVERMORE, NAPA, GRATON, SAN JOSE, AND SAN FRANCISCO. SEISMOGRAMS IMPLY AN EPICENTER CLOSER TO BERKELEY THAN TO MT. HAMILTON.
1/ 4/1911	-0--0--0.	35.92	118.67	D		F CALIFORNIA HOT SPRINGS.

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 1/ 9/1911 21-25--0.  37.33 121.92 D        F SANTA CLARA AND SANTA CRUZ.
 1/10/1911 23-17--0.  37.33 121.92 D        F SANTA CLARA. (45 MILES FROM BERKELEY.)
 1/12/1911  5-34--0.  36.83 121.42 D        F HOLLISTER.  (75 MILES FROM BERKELEY.)
 1/18/1911 -0--0--0.  41.17 123.67 D        F WEITCHPEC.
 1/28/1911  3-45--0.  39.67 123.67 D        F BRANSCOMB AND FORT BRAGG.
 1/30/1911 22-41--0.  37.00 121.58 D        F CAMPBELL AND SANTA CLARA.
 2/ 7/1911 13- 5--0.  37.00 121.58 D        F CAMPBELL, HOLLISTER, AND BOULDER CREEK.
 2/ 7/1911 13-19--0.  36.83 121.42 D        F HOLLISTER.  (75 MILES FROM BERKELEY.)
 2/17/1911 -0--0--0.  40.42 120.67 D        F LONG VALLEY.
 3/ 3/1911 19--0--0.  40.33 121.25 D        F CHESTER.
 3/ 3/1911 22-30--0.  40.33 121.25 D        F CHESTER.
 3/11/1911 12-30--0.  40.83 124.17 D        F EUREKA.
 3/11/1911 21-30--0.  36.83 121.42 D        F VII HOLLISTER.  PLASTER CRACKED.  ALSO
                                            FELT AT CAMPBELL, LOS GATOS, SALINAS, AND SAN JOSE.
- 3/22/1911 13-55--0.  35.75 120.67 D        F SAN MIGUEL.  QUITE SEVERE.
 4/ 9/1911 -0--0--0.  37.92 119.75 D        F HETCH HETCHY.
 4/ 2/1911 -0--0--0.  36.17 120.67 D        F PRIEST VALLEY.
 6/10/1911  4-10--0.  37.75 122.25 D        F ALAMEDA.
 7/ 1/1911 22- 0- 0.  37.25 121.75   6.6    F NEAR COYOTE.  CONSIDERABLE DAMAGE AT LICK
                                            OBSERVATORY.  VI-VIII AT SAN JOSE, SANTA CLARA, GILROY, AND MORGAN HILL.  VI AT
                                            SAN FRANCISCO, OAKLAND, AND RIO VISTA.  V AT BERKELEY AND SANTA CRUZ.  FELT OVER
                                            AN AREA OF 60,000 SQUARE MILES.
 7/ 2/1911  0-55--0.  37.33 121.67 D        F II MT. HAMILTON.  AFTERSHOCK OF 22-0-0.
 7/ 2/1911  2- 5--0.  37.33 121.67 D        F II MT. HAMILTON.  AFTERSHOCK OF 22-0-0.
 7/ 2/1911  8- 0--0.  37.33 121.67 D        F II MT. HAMILTON.
 7/ 3/1911 13-27--0.  37.33 121.67 D        F MT. HAMILTON.
 7/ 3/1911 13-34--0.  37.33 121.67 D        F II MT. HAMILTON.
 7/ 3/1911 14-43--0.  37.33 121.67 D        F III MT. HAMILTON.  ROLLING MOTION.
 7/ 5/1911  2-15--0.  37.08 121.67 D        F MORGAN HILL.
 7/ 7/1911  9-45--0.  37.08 121.67 D        F MORGAN HILL.
 7/ 7/1911 13-15--0.  37.08 121.67 D        F MORGAN HILL.
 7/ 7/1911 19-13--0.  37.33 121.67 D          I MT. HAMILTON.
 7/12/1911 22--0--0.  37.67 121.00 D        F LA PORTE.
 7/13/1911 -0--0--0.  39.67 123.67 D        F BRANSCOMB.
 7/21/1911  9- 3--0.  39.67 123.67 D        F BRANSCOMB.
 7/31/1911 11-13--0.  37.33 121.67 D        F III MT. HAMILTON.
 8/ 1/1911 10-23--0.  37.33 121.67 D        F III MT. HAMILTON.
 8/ 6/1911 19-52--0.  37.33 121.67 D        F IV MT. HAMILTON.  SHOCK REPORTED ON THIS
                                            DATE AT CAMPBELL.
 8/11/1911  4-38--0.  37.33 121.67 D        F II MT. HAMILTON.
 8/16/1911  1-33--0.  37.33 121.67 D        F III MT. HAMILTON.
 9/ 5/1911 17- 9--0.  37.33 121.67 D        F II MT. HAMILTON.
 9/ 5/1911 15-44--0.  37.33 121.67 D        F II MT. HAMILTON.
 9/12/1911  3-58--0.  37.33 121.67 D        F III MT. HAMILTON.
 9/29/1911 17-12--0.  37.33 121.67 D        F III MT. HAMILTON AND MORGAN HILL.
10/ 1/1911  0-55--0.  37.33 121.67 D          I MT. HAMILTON.
10/15/1911 13-45--0.  37.25 122.00 D        F III LOS GATOS.
10/17/1911 21-25--0.  37.33 121.67 D        F III MT. HAMILTON, LOS GATOS, SAN JOSE, AND
                                            AND STANFORD UNIVERSITY.
11/11/1911 14-58--0.  37.33 121.67 D          I MT. HAMILTON.
11/20/1911 20-24--0.  37.33 121.67 D        F III MT. HAMILTON.  ACCOMPANIED BY A
                                            DISTANT ROAR.
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11/25/1911	17-33--0.	37.33	121.67	D	F II MT. HAMILTON.
11/30/1911	5-52--0.	36.83	121.42	D	F HOLLISTER.
12/17/1911	22- 0--0.	37.33	121.92	D	F III SAN JOSE.
12/31/1911	21-41--0.	37.33	121.67	D	F III MT. HAMILTON. FELT AT CAMPBELL.
1/ 4/1912	1-39--0.	37.33	121.67	D	F II MT. HAMILTON.
1/ 5/1912	3-54--0.	37.33	118.42	D	F VII BISHOP. SHAKEN AREA ABOUT 50,000 SQUARE MILES. DAMAGE AT BISHOP. FELT AT VISALIA, FRESNO, BAKERSFIELD, AND AT BLAIR, NEVADA.
1/ 7/1912	18-30--0.	39.50	120.25	D	F SIERRAVILLE. POSSIBLE THE FOLLOWING SHOCK
1/15/1912	18-30--0.	39.25	121.00	D	F NEVADA CITY, STERLING CITY, AND WEST BRANCH.
1/21/1912	14- 7--0.	37.33	121.67	D	F IV MT. HAMILTON. FELT ALSO AT SANTA CRUZ.
2/ 2/1912	20-19-30.	40.83	124.17	D	F EUREKA.
2/15/1912	6-30--0.	37.75	122.25	D	F ALAMEDA.
2/20/1912	6-15--0.	37.33	121.67	C	F IV MT. HAMILTON REGION. FELT AT CALAVERAS VALLEY, LOS GATOS, PALO ALTO, MAYFIELD, STANFORD UNIVERSITY, BERKELEY, ALAMEDA, AND SANTA CRUZ.
2/22/1912	9-15--0.	37.75	122.25	D	F ALAMEDA.
3/ 3/1912	5- 5--0.	37.50	122.25	D	F III REDWOOD CITY, PALO ALTO, AND MAYFIELD.
3/ 8/1912	9-48--0.	37.33	121.67	D	F IV MT. HAMILTON.
3/12/1912	13-42--0.	37.42	122.17	D	F III PALO ALTO, MAYFIELD, SANTA CLARA, AND SAN FRANCISCO.
4/-0/1912	16-15--0.	36.58	118.08	D	F LONE PINE. TWO HEAVY SHOCKS FROM NORTH TO SOUTH.
5/ 5/1912	15- 5--0.	36.58	118.08	D	F LONE PINE.
5/ 9/1912	17-17--0.	37.33	121.67	D	F III MT. HAMILTON.
5/21/1912	4-54--0.	37.33	121.67	D	F III MT. HAMILTON.
5/31/1912	15- 5--0.	36.58	118.08	D	F LONE PINE.
6/19/1912	22-27--0.	36.00	121.17	D	F JOLON. (RECORDED AT BERKELEY.)
7/ 4/1912	22-31--0.	37.33	121.92	D	F II SANTA CLARA.
7/12/1912	4- 6--0.	37.00	122.00	D	F IV MONTEREY BAY REGION. FELT AT SANTA CRUZ.
7/14/1912	22-31--0.	37.33	121.92	C	F IV MT. HAMILTON.
8/24/1912	5-10--0.	37.33	121.67	D	F II MT. HAMILTON.
8/31/1912	4-53--0.	38.92	120.33	D	F VI EASTERN CALIFORNIA AND NEVADA. ORIGIN ABOUT MIDWAY BETWEEN CISCO AND PLASSE'S MEADOW. WHEATLAND MOST DISTANT POINT REPORTING. WEATHER BUREAU REPORTS FROM DOBBINS, DOWNIEVILLE, GREENVILLE, PILOT CREEK, WHEATLAND, NEVADA CITY, AND SIERRAVILLE. REPORTED ALSO FROM GRASS VALLEY, HAMMONTON, PLASSE'S MEADOW, AND CISCO. FELT AT RENO, NEVADA.
8/31/1912	4-53--0.	40.50	124.17	D	F ALTON.
9/12/1912	17-27--0.	37.33	122.17	C	F VII SANTA CRUZ MOUNTAINS. REPORTED FROM AN AREA OF ABOUT 10,000 SQUARE MILES. VI AT STANFORD UNIVERSITY. IV AT AGUA AND CALAVERAS. III AT OAKLAND AND SAN FRANCISCO. WEATHER BUREAU REPORTS FROM ANTIOCH, OAKLAND, SAN FRANCISCO, MILLBRAE, MOUNTAIN VIEW, CAMPBELL, LOS GATOS, MORGAN HILL, APTOS, GLENWOOD, SANTA CRUZ, CASTROVILLE, AND SALINAS.
10/20/1912	9-17--0.	37.33	121.67	C	F III MT. HAMILTON.
10/25/1912	8-16--0.	36.83	121.42	C	F V HOLLISTER-SALINAS REGION. EPICENTER ON SAN ANDREAS FAULT REGION SOUTH OF HOLLISTER. IV AT STANFORD UNIVERSITY. III AT SANTA CRUZ. II AT BERKELEY. ALSO FELT AT KING'S MOUNTAIN HOUSE, MORGAN HILL, CASTROVILLE, AND SALINAS.
10/25/1912	3-19--0.	37.00	122.00	D	F II SANTA CRUZ. AN AFTERSHOCK. REPORTED ALSO FROM SANTA CLARA.

10/25/1912	4- 1--0.	37.00	122.00	D	F II SANTA CRUZ. AN AFTERSHOCK.
11/17/1912	4-21--0.	37.33	121.67	D	F II MT. HAMILTON.
12/18/1912	7-35--0.	37.83	122.25	D	F III BERKELEY. LOCAL.
1/ 7/1913	18-30--0.	39.50	120.25	D	F SIERRAVILLE.
3/ 3/1913	9-40--0.	39.67	121.00	D	F LA PORTE.
3/ 8/1913	12--0--0.	40.17	120.92	D	F GREENVILLE.
8/20/1913	15-30--0.	39.33	123.25	D	F UKIAH.
9/ 8/1913	15-54--0.	37.33	121.67	D	F II MT. HAMILTON.
9/ 9/1913	6-18--0.	37.33	121.67	C	F III MT. HAMILTON.
9/18/1913	21-15--0.	36.83	121.42	D	F HOLLISTER.
9/26/1913	13-13--0.	37.33	121.67	C	F III MT. HAMILTON.
9/27/1913	5--0--0.	39.67	121.00	D	F LA PORTE.
9/27/1913	9--0--0.	39.67	121.00	D	F LA PORTE.
10/ 7/1913	8-40--0.	37.83	122.25	D	F II BERKELEY.
10/20/1913	11-25--0.	35.25	120.67	D	F SAN LUIS OBISPO, PASO ROBLES, BETTERAVIA, AND SANTA MARIA.
10/25/1913	9-45--0.	37.67	122.42	D	F IV FELT FROM SEBASTOPOL TO PALO ALTO. IV AT STANFORD UNIVERSITY. III AT BERKELEY. ORIGIN NEAR COLMA. FELT ALSO IN OAKLAND, SAN FRANCISCO, AND ROSS.
10/31/1913	22-35--0.	37.83	122.25	D	F II BERKELEY.
11/20/1913	13--0--0.	37.42	122.17	D	F III STANFORD UNIVERSITY.
11/25/1913	2-58--0.	40.83	124.17	D	F ARCATA AND EUREKA. EXTENDED AT LEAST 80 MILES SOUTH OF EUREKA. ALSO REPORTED FROM ROHNERVILLE AND BLOCKSBURG. FELT IN FORT STEWARD.
11/29/1913	10- 0--0.	37.33	121.67	D	F III MT. HAMILTON REGION. FELT AND RECORDED AT MT. HAMILTON AND SANTA CLARA. FELT IN SAN JOSE. EPICENTRAL DISTANCE OF LESS THAN 20 MILES FROM SANTA CLARA AND OVER 10 MILES FROM MT. HAMILTON.
11/30/1913	9-16--0.	37.33	121.67	D	F II MT. HAMILTON. AFTERSHOCK. NOT FELT, BUT SEISMOGRAM SHOWS THAT IT COULD HAVE BEEN NOTICED.
12/20/1913	0-32--0.	37.08	122.00	D	F GLENWOOD. RECORDED AT BERKELEY AND MT. HAMILTON.
12/26/1913	12-33- 0.0	36.17	121.00	D	F SAN LUCAS.
1/24/1914	3-33--0.	37.58	122.42	D	F VI SAN BRUNO. PERCEPTIBLE OVER AN AREA OF ABOUT 5,000 SQUARE MILES. V-VI AT PLACES ALONG COAST. IV-V AT SAN FRANCISCO. III-IV AT BERKELEY. III AT STANFORD UNIVERSITY. SLIGHT AT SANTA CLARA. FELT BY A FEW AT LIVERMORE, BARELY PERCEPTIBLE AT CLAYTON. UNFELT AT MT. HAMILTON.
2/12/1914	-0--0--0.	38.42	122.67	D	F PEACHLAND.
2/18/1914	18-15--0.	39.58	120.83	D	F VI-VII AT TRUCKEE MEADOWS, RENO, AND VIRGINIA CITY, NEVADA. STRONG AT VERDI, SPARKS, AND CARSON CITY, NEVADA. FELT AT DOWNIEVILLE. RECORDED AT BERKELEY.
2/22/1914	22-19--0.	37.33	121.92	D	F II SANTA CLARA. ORIGINATED 10 MILES FROM MT. HAMILTON, BUT NOT REPORTED FELT THERE.
3/14/1914	7-42--0.	37.00	122.00	D	F IV SANTA CRUZ. ALSO FELT AT SANTA CLARA, II.
3/18/1914	11-30--0.	37.33	121.92	D	F SAN JOSE.
3/18/1914	12-20--0.	37.00	122.00	D	F SANTA CRUZ.
3/18/1914	12-34--0.	37.33	121.92	D	F III SANTA CLARA.
3/19/1914	0-53--0.	37.25	122.00	D	F LOS GATOS.
3/19/1914	6-45--0.	37.42	122.17	D	F STANFORD UNIVERSITY.
3/19/1914	12-30--0.	37.42	122.17	D	F STANFORD UNIVERSITY.
4/11/1914	3-48--0.	40.83	124.17	D	F IV EUREKA. ALSO FELT AT LOLETA.

4/23/1914	16- 4--0.	39.42	120.00	D	F FLORISTON.
4/24/1914	8-35--0.	39.42	120.00	D	F STRONGEST SHOCK OF THE YEAR IN THE U.S. FELT OVER AN AREA OF 100,000 SQUARE MILES. EPICENTER PROBABLY NE OF RENO, TOWARD FERNLEY OR WADSWORTH, NEVADA. VII-VIII AT RENO, NEVADA. V AT SUSANVILLE AND GRASS VALLEY, AND SAND PASS AND GERLACH, NEVADA. IV AT SACRAMENTO AND STOCKTON.
4/25/1914	18--0--0.	39.42	120.00	D	F FLORISTON. PROBABLY AFTERSHOCK OF NEVADA QUAKE.
4/27/1914	5-30--0.	38.83	121.00	D	F PILOT CREEK. SAME OR DIFFERENT EARTHQUAKE FELT AT NEVADA CITY AT 5-50-0.
5/31/1914	-0--0--0.	40.50	121.50	D	F HALL'S FLAT. CONNECTED WITH ERUPTIONS OF LASSEN PEAK.
6/14/1914	6--0--0.	38.17	120.83	D	F VALLEY SPRINGS.
6/21/1914	8- 2--0.	37.42	122.17	D	F II PALO ALTO.
7/ 7/1914	16-38--0.	37.67	121.75	D	F LIVERMORE.
8/14/1914	12-21--0.	40.83	124.17	D	F IV EUREKA. RATTLED WINDOWS.
8/24/1914	6--0--0.	36.67	121.67	D	F SALINAS.
9/ 4/1914	8-56--0.	37.75	122.50	D	F LAGUNA HONDA, SAN FRANCISCO. FELT BY SEVERAL AT BERKELEY. PRECEDED BY LOW RUMBLING SOUND.
9/ 7/1914	17-18--0.	37.33	121.67	D	I MT. HAMILTON.
9/ 7/1914	18- 5--0.	37.33	121.67	D	F III MT. HAMILTON. ORIGIN BETWEEN 10 AND 20 MILES FROM LICK OBSERVATORY. FELT AT SAUSALITO, CAMPBELL, LOS GATOS, SAN JOSE, STANFORD UNIVERSITY (II-III), AND SANTA CRUZ.
9/ 7/1914	18-35--0.	37.33	121.67	D	I MT. HAMILTON.
9/ 7/1914	21-10--0.	37.33	121.67	D	F CAMPBELL.
10/23/1914	14-30--0.	40.50	121.50	D	F LASSEN PEAK. ACCOMPANIED AN EXPLOSIVE ERUPTION OF LASSEN PEAK.
11/ 7/1914	3-35--0.	39.92	122.08	D	F IV VINA. TWO SHOCKS.
11/ 9/1914	3-31--0.	37.17	122.00	C	F VIII SANTA CRUZ MOUNTAINS. FELT FROM ST. HELENA ON NORTH TO SOLEDAD ON SOUTH, AND FAIRMEAD ON EAST. AREA SHAKEN APPROXIMATELY 30,000 SQUARE MILES. EPICENTER NEAR LAUREL, ONE MILE SW OF SAN ANDREAS FAULT. IV-VI AT STANFORD UNIVERSITY, IV-V AT MT. HAMILTON, III-IV AT BERKELEY, AND III AT SAN FRANCISCO.
11/21/1914	16-24--0.	37.33	121.67	D	F IV MT. HAMILTON. ORIGIN ABOUT 15 MILES DISTANT. ALSO FELT AT SANTA CLARA AND SAN JOSE.
11/24/1914	4-25--0.	35.25	120.67	D	F II SAN LUIS OBISPO. ABRUPT TREMBLING, LASTING 20 SECONDS.
12/ 9/1914	7--0--0.	38.75	120.83	D	F CATHEDRAL PARK.
12/10/1914	9- 1--0.	40.83	124.17	D	F II EUREKA. ABRUPT JOLT.
12/12/1914	-0--0--0.	40.83	124.17	D	F EUREKA.
12/28/1914	10-42--0.	37.17	122.17	D	F VI SANTA CRUZ MOUNTAINS. FELT OVER AN AREA OF ABOUT 10,000 SQUARE MILES. BERKELEY TO THE NORTH AND ARBOLADA TO THE SOUTH THE EXTREME POINTS. VI AT BOULDER CREEK AND FELTON. V AT SANTA CRUZ. IV AT COYOTE AND SALINAS. III-IV AT MONTEREY. III AT STANFORD UNIVERSITY, CAMPBELL, AND BERKELEY. II-III AT OAKLAND. II AT ARBOLADO.
1/14/1915	15-30--0.	40.83	124.17	D	F IV ROHNERVILLE. SHIVELY.
1/17/1915	4-53--0.	37.25	121.75	D	F III COYOTE. RECORDED AT LICK OBSERVATORY. ORIGIN NOT MORE THAN 10 MILES DISTANT.
1/23/1915	16-40--0.	40.50	121.50	D	F LASSEN PEAK. EARTHQUAKES SHOOK THE REGION FOR 20 MINUTES PRECEDING AN ERUPTION.
1/23/1915	17- 0--0.	40.50	121.50	D	F LASSEN PEAK. TIME OF THE ERUPTION.
1/31/1915	8-30--0.	39.67	123.67	D	F III BRANSCOMB, FOUR SHOCKS.

2/18/1915	9-47--0.	40.83	124.17	D		F IV ROHNERVILLE. II-III AT EUREKA.
2/22/1915	-0--0--0.	40.58	121.83	D		F VIII EVENING. TWIN VALLEY, 30 MILES EAST OF REDDING. VIOLENT LOCAL SHOCK. FISSURES, NEW SPRINGS, HOUSES TIPPED OVER, ETC.
2/28/1915	10-44--0.	36.58	121.92	D		F ARBOLADO, DOUBLE SHOCK OF V. AT HOLLISTER IV, SINGLE.
3/17/1915	3-25--0.	36.58	121.92	D		F III ARBOLADO.
3/29/1915	13-40--0.	40.75	124.00	D		F II CHINA FLAT.
3/31/1915	12-33--0.	37.33	121.92	D		F III SAN JOSE.
4/ 5/1915	21-40--0.	38.58	119.50	D		F COLEVILLE, BRIDGEPORT. II AT SMITH, NEVADA. REPORTED ALSO FROM COULTERVILLE.
4/ 5/1915	23-11--0.	38.58	119.50	D		F VI COLEVILLE REGION. PERCEPTIBLE OVER THE CENTRAL SIERRA REGION FROM NORTHFORK ON THE SOUTH, TO NEVADA CITY ON THE NORTH, EAST TO BEYOND YERINGTON, NEVADA (IV) AND WEST TO COULTERVILLE AND SONORA. SHAKEN AREA ABOUT 25,000 SQUARE MILES. AT COLEVILLE ROCKS ROLLED DOWN HILLSIDES AND QUAKE LASTED 25 SECONDS. AT BRIDGEPORT ARTICLES WERE SHAKEN FROM SHELVES, LASTED 5 SECONDS. V AT GARDNESVILLE, NEVADA. IV AT SMITH AND YERINGTON, NEVADA. III AT SONORA, PACIFIC, AND COULTERVILLE. II AT NORTHFORK. ALSO AT MARKLEEVILLE, TOWLE, AND NEVADA CITY.
4/ 6/1915	16-28--0.	36.92	121.75	D		F V WATSONVILLE. IV AT SPRECKELS, III AT COYOTE, II-III AT SANTA CLARA.
4/17/1915	6-27- 0.0	38.67	119.75	D		F IV MARKLEEVILLE. 4 RAPID, BUMPING SHOCKS. AT SONORA SINGLE SHOCK,IV.
4/21/1915	9-58--0.	35.25	120.67	D		F IV SAN LUIS OBISPO. ALSO FELT 3 MILES NW OF PRIEST VALLEY.
5/ 3/1915	7-30--0.	39.67	123.67	D		F III BRANSCOMB.
5/ 3/1915	19-52--0.	40.42	120.67	D		F III SUSANVILLE. 2 BRIEF SHOCKS.
5/ 4/1915	1--0--0.	40.42	120.67	D		F SUSANVILLE.
5/ 6/1915	12- 9--0.	39.50	126.50	C	6.8	F V MENDOCINO COUNTY COAST. ORIGIN OFF SHORE. STRONGEST AT FORT BRAGG. BRANSCOMB. II AT SHIVELY AND EUREKA. ALSO AT WILLITS.
5/22/1915	-0--0--0.	40.75	121.50	D		F HAT CREEK VALLEY AND BURNEY. AFTERNOON.
5/29/1915	6-46--0.	36.08	118.83	D		F VI SOUTHERN SIERRA. ORIGIN IN SIERRA REGION EAST OF SPRINGVILLE. V AT BAKERSFIELD AND LONE PINE. IV+ AT GLENNVILLE. III AT CALIFORNIA HOT SPRINGS. II AT FRESNO. REPORTED ALSO FROM MERCED, HANFORD, VISALIA, AND PORTERVILLE.
5/29/1915	8-30--0.	36.08	118.83	D		F SOUTHERN SIERRA. AFTERSHOCK. FELT AT LONE PINE.
6/ 4/1915	21-10--0.	40.50	124.00	D		F V SHIVELY. 3 SHOCKS.
6/ 6/1915	17-51--0.	37.75	122.50	D		F IV SAN FRANCISCO AND OAKLAND. ALSO FELT IN SAUSALITO, AND AS FAR SOUTH AS COYOTE (II). REPORTED ALSO FROM STANFORD UNIVERSITY AND FROM SEVERAL POINTS IN SAN MATEO COUNTY.
6/10/1915	16-12--0.	37.33	121.92	D		F II SANTA CLARA. ORIGIN SOME 30 MILES SOUTH OF SANTA CLARA.
6/15/1915	8-55--0.	40.33	121.25	D		F II CHESTER.
6/26/1915	-0--0--0.	36.58	121.67	D		F SPRECKELS.
7/15/1915	18--0--0.	40.42	121.58	D		F II DRAKESBAD.
7/19/1915	23-10--0.	37.33	121.67	D		F IV MT. HAMILTON. ORIGIN 10-15 MILES DIST.
7/22/1915	0--0--0.	40.42	121.58	D		F IV DRAKESBAD.
7/22/1915	11--0--0.	40.33	121.58	D		F MINERAL. 2 SHOCKS.
7/22/1915	20-36--0.	40.83	124.17	D		F III EUREKA.
8/ 5/1915	16-30--0.	40.42	121.58	D		F IV DRAKESBAD.

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 8/ 5/1915 18-30--0.  36.58 121.67 D        F IV SPRECKELS.
 8/ 6/1915  6-31-40.  37.33 121.67 D        F MT. HAMILTON.
 8/ 6/1915 18-40--0.  40.33 121.58 D        F III MINERAL, LASTED 2 OR 3 MINUTES.
 9/ 8/1915 12-45--0.  35.67 120.67 D        F V  REGION EAST OF PASO ROBLES.  ANTELOPE,
                                              2 SHOCKS, FIRST THE HEAVIER, OIL CAME UP WITH WATER IN WELL AFTER SHOCK.  AT
                                              SHANDON A SEATED MAN WAS SHAKEN SO HARD HE THOUGHT A PERSON WAS SHAKING HIM.  AT
                                              CRESTON THE SHOCK WAS SHORT AND SHARP.  A SLIGHT LANDSLIDE AT PORT SAN LUIS.
                                              WEATHER BUREAU REPORTS - PASO ROBLES, V AND SAN LUIS OBISPO III-IV.
10/ 1/1915 15-26--0.  37.50 122.33 D        F V SAN FRANCISCO PENINSULA.  FELT FROM
                                              PETALUMA TO SAN JOSE, AND EAST TO LIVERMORE.  ESTIMATED INTENSITIES- SAN
                                              FRANCISCO III, BERKELEY AND STANFORD UNIVERSITY III-IV, SAN JOSE, OAKLAND, AND
                                              LIVERMORE II.
10/ 2/1915  9-17--0.  37.50 122.33 D        F III CRYSTAL SPRINGS LAKE.  ALSO FELT IN
                                              BURLINGAME, PILARCITOS STATION, AND REDWOOD CITY.
10/ 3/1915  1-49--0.  39.42 121.08 D        F CAMPTONVILLE, AND PLEASANT VALLEY, NEVADA.
10/ 8/1915  3- 2--0.  38.42 122.83 D        F III SEBASTOPOL.
10/ 8/1915  5-26--0.  37.83 122.25 B        F VIII PIEDMONT, NORTH TO SEBASTOPOL AND
                                              SOUTH TO SANTA CLARA.  A FEW CHIMNEYS THROWN DOWN IN PIEDMONT.  ORIGIN IN
                                              HAYWARD FAULT ZONE, 3-5 MILES SE OF BERKELEY, FOCUS OF SHALLOW DEPTH.  VI AT
                                              BERKELEY, IV AT SAN FRANCISCO, II-III AT STANFORD UNIVERSITY.
10/ 8/1915  5-35--0.  37.83 122.25 B        F IV AFTERSHOCK.  BERKELEY AND SAN FRANCISCO
10/ 8/1915  5-52--0.  37.83 122.25 B        F III AFTERSHOCK.  BERKELEY.
10/ 8/1915  6-31--0.  37.83 122.25 B        F II AFTERSHOCK.  BERKELEY.
10/ 8/1915 21-20--0.  38.25 122.67 D        F III PETALUMA.
10/22/1915  6-18--0.  37.83 122.25 B        F IV BERKELEY AND OAKLAND.  WEAK, LOCAL
                                              QUAKE.
10/30/1915 -0--0--0.  40.75 121.50 D        F HAT CREEK VALLEY.  ACCOMPANIED ERUPTIONS
                                              OF LASSEN PEAK.
11/ 1/1915 10-30--0.  37.75 122.50 D        F II SAN FRANCISCO.  2 SHOCKS.
12/27/1915  7-23--0.  36.83 121.42 D        F V MONTEREY BAY REGION.  SHAKEN AREA
                                              PROBABLY ABOUT 10,000 SQUARE MILES.  V AT SPRECKELS, WATSONVILLE, AND SANTA
                                              CRUZ.  III AT PRIEST VALLEY AND MT. HAMILTON.  FELT ALSO AT SOLEDAD AND SAN JOSE
12/31/1915 12-20--0.  41.00 126.00 C 6.5    F X AT SEA, OFF HUMBOLDT COUNTY COAST.  OF
                                              DESTRUCTIVE ENERGY, BUT EPICENTER SO FAR FROM LAND THAT HIGHEST INTENSITY
                                              REPORTED WAS III AT EUREKA AND SHIVELY.
 1/14/1916 18- 5--0.  37.67 121.75 D        F LIVERMORE.
 1/15/1916  0-41--0.  38.42 122.83 D        F III SEBASTOPOL.
 2/ 4/1916 20-32--0.  36.83 121.42 D        F REGION OF HOLLISTER.  REPORTED FROM
                                              HOLLISTER AND SPRECKELS.
 2/19/1916 15- 5--0.  38.25 119.25 D        F III BRIDGEPORT.
 4/ 1/1916  6-30--0.  36.58 118.08 D        F LONE PINE.
 4/ 1/1916  7-35--0.  36.58 118.08 D        F LONE PINE.
 4/13/1916  4-23--0.  36.58 118.08 D        F IV LONE PINE.  3 ROCKING SHOCKS.
 5/ 3/1916  0-30--0.  36.67 121.67 D        F SALINAS AND SPRECKELS.
 5/ 5/1916 -0--0--0.  36.58 121.67 D        F SPRECKELS.
 5/ 7/1916  0-58--0.  40.83 124.17 D        F III EUREKA.  SHIVELY.
 5/ 7/1916  4-14--0.  36.58 118.08 D        F LONE PINE.
 5/14/1916 -0--0--0.  36.58 121.67 D        F SPRECKELS.
 6/27/1916 13-43--0.  36.67 121.25 D        F V ORIGIN PROBABLY SE OF SALINAS IN REGION
                                              OF SAN ANDREAS RIFT.  HOLLISTER AND SALINAS.  ALSO AT KING CITY, PRIEST VALLEY
                                              (IV), PASO ROBLES, AND SPRECKELS.
 6/27/1916 14-15--0.  37.33 121.67 D        F IV MT. HAMILTON REGION.  ORIGIN SOME 10
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						MILES DISTANT. III AT MT. HAMILTON, SAN JOSE, AND SANTA CRUZ.
7/ 1/1916	14-15--0.	37.33	121.92	D	F	III SAN JOSE.
7/ 5/1916	4-40--0.	40.58	124.25	D	F	VII HUMBOLDT COUNTY. MOST SEVERE 2 MILES WEST OF FERNDALE, WHERE TWO CHIMNEYS WERE CRACKED, A WOODPILE OVERTURNED, AND MILK SPILLED FROM PANS. IN FERNDALE TREES SWAYED, VASES WERE THROWN FROM SHELVES, AND A PLATE GLASS WINDOW WAS BROKEN. ALSO FELT AT EUREKA, ROHNERVILLE, AND SHIVELY.
7/ 6/1916	19-20--0.	37.33	121.92	D	F	IV SAN JOSE.
8/ 2/1916	0-44--0.	39.75	123.25	D	F	III COVELO. FELT ALSO 7 MILES EAST OF COVELO.
8/ 6/1916	19-38--0.	36.67	121.25	D	F	VIII PAICINES. FELT FROM SAUSALITO ON THE NORTH JO MERCED ON THE EAST AND PASO ROBLES ON THE SOUTH. PERCEPTIBLY AFFECTED AN AREA OF 30,000 SQUARE MILES. VIII AT PAICINES, DESTROYED HOTEL CHIMNEYS AND DAMAGED SHELF GOODS. VII AT HOLLISTER, VI AT SALINAS. III-IV AT MERCED AND PASO ROBLES. IV AT SANTA CRUZ, III AND LOS GATOS, AND II AND SAN FRANCISCO. ALSO FELT AT PRIEST VALLEY.
8/ 6/1916	20-56--0.	36.67	121.67	D	F	V SALINAS. SLIGHT AT HOLLISTER.
8/ 7/1916	16-15--0.	36.67	121.67	D	F	III SALINAS.
8/ 8/1916	10-45--0.	36.67	121.67	D	F	III SALINAS.
8/ 8/1916	16-50--0.	37.00	122.00	D	F	V MONTEREY BAY REGION. ORIGIN ON SAN ANDREAS FAULT SW OF MT. HAMILTON. V AT SANTA CRUZ, IV AT SPRECKELS AND SALINAS. III-IV AT LOS GATOS. III AT PALO ALTO AND STANFORD UNIVERSITY. ALSO AT SOLEDAD
8/14/1916	7-20--0.	36.58	118.08	D	F	LONE PINE.
8/23/1916	14-55--0.	40.83	124.17	D	F	VI EUREKA. ROCKING FOR 10 SECONDS AND TREMBLING CONTINUED ABOUT 20 SECONDS LONGER. SHOCK AS HEAVY AT BLUE LAKE AS AT EUREKA. IV AT ROHNERVILLE. ALSO FELT BY MANY AT SHIVELY.
9/ 1/1916	2-30--0.	36.58	121.67	D	F	SPRECKELS.
9/ 6/1916	19-40--0.	36.58	121.67	D	F	SPRECKELS.
9/ 8/1916	16-50--0.	36.58	121.67	D	F	SPRECKELS.
9/28/1916	3-45--0.	36.83	121.42	D	F	HOLLISTER.
10/ 9/1916	4-50--0.	36.50	118.00	D	F	III ROUND VALLEY.
10/23/1916	7-40--0.	38.17	121.67	D	F	RIO VISTA AND MARTINEZ.
10/23/1916	18-57--0.	38.17	121.67	D	F	RIO VISTA, MARTINEZ, LODI, STOCKTON, OAKLAND, AND STANFORD UNIVERSITY.
10/24/1916	13- 3--0.	35.25	120.67	D	F	II SAN LUIS OBISPO. PROBABLY NEXT SHOCK, WITH TIME ERROR.
10/24/1916	13-10--0.	38.00	121.17	D	F	V JOLON. III AT POINT THREE AND A HALF MILES NW OF PRIEST VALLEY.
11/ 3/1916	9- 3--0.	37.00	122.00	D	F	V SANTA CRUZ. PROBABLY TIMING ERROR AND IS SAME AS NEXT SHOCK.
11/ 3/1916	10- 4--0.	37.25	122.00	D	F	III LOS GATOS. ORIGIN ABOUT 20 MILES FROM MT. HAMILTON.
11/28/1916	7- 3--0.	36.58	121.67	D	F	IV SPRECKELS. EPICENTRAL DISTANCE APPROXIMATELY 50 MILES FROM LICK OBSERVATORY.
11/28/1916	7- 6--0.	36.58	121.67	D	F	IV SPRECKELS.
11/28/1916	7- 8--0.	36.58	121.67	D	F	IV SPRECKELS.
11/28/1916	7-30--0.	36.58	121.67	D		I RECORDED AT MT. HAMILTON AND BERKELEY.
12/ 1/1916	22-53--0.	35.17	120.75	D	F	VII AVILA. CONSIDERABLE GLASS BROKEN AND GOODS IN STORES THROWN FROM SHELVES. SAN LUIS OBISPO. WATER IN BAY DISTURBED, PLASTER IN COTTAGES JARRED LOOSE, SMOKESTACKS OF UNION OIL CO. REFINERY TOPPLED OVER. SEVERE AT PORT SAN LUIS. III AT SANTA MARIA.
12/ 7/1916	20-30--0.	37.33	118.42	D	F	III BISHOP.

1/ 3/1917	16--0--0.	40.83	124.17	D	F III TABLE BLUFF.
1/13/1917	15-15--0.	36.67	121.67	D	F SALINAS.
1/18/1917	12-30--0.	36.58	118.08	D	F LONE PINE.
1/19/1917	8-50--0.	36.58	118.08	D	F LONE PINE.
1/21/1917	17-10--0.	37.33	118.42	D	F BISHOP.
2/ 7/1917	15-27--0.	37.33	121.92	D	F III SAN JOSE.
2/10/1917	4-30--0.	36.25	118.00	D	F III OWENS VALLEY. REPORTED FROM OLANCHA AND ALSO FROM NORTH AND SOUTH HAIWEE DAMS.
3/ 3/1917	16--0--0.	40.83	124.17	D	F VI TABLE BLUFF. BROKE MANTLE IN LIGHTHOUSE.
3/13/1917	15- 4--0.	36.67	121.67	D	F II SALINAS.
3/18/1917	12-30--0.	36.58	118.08	D	F IV LONE PINE.
3/19/1917	8-50--0.	36.58	118.08	D	F V LONE PINE.
3/21/1917	17-10--0.	37.33	118.42	D	F IV BISHOP. FELT ALSO AT CROOKED CREEK CAMP OF THE LOS ANGELES POWER BUREAU. NOTICEABLE IN TUNNEL BEING DRIVEN. ROCKS DISLODGED ON MOUNTAIN SIDES WEST OF BISHOP.
3/29/1917	13-59--0.	37.42	122.17	D	F III STANFORD UNIVERSITY.
4/ 2/1917	9- 1--0.	37.83	122.25	D	F IV BERKELEY. ORIGIN ABOUT 15 MILES FROM BERKELEY.
4/13/1917	13-30--0.	41.50	120.17	D	F III CEDARVILLE. DURATION 1 MINUTE.
4/16/1917	6--0--0.	41.50	120.17	D	F III CEDARVILLE.
5/11/1917	22-33-30.	38.67	119.75	D	F V MARKLEEVILLE AND TOWLE.
6/ 9/1917	3-34- 0.0	36.58	121.33	D	F V SOLEDAD. IV AT CARMEL, SALINAS, AND SAN MIGUEL.
6/21/1917	19-20--0.	36.83	118.17	D	F V OWENS VALLEY. REPORTED FROM INDEPENDENCE. FELT ALSO AT DIVISION CREEK POWER HOUSE, 11 MILES NW OF INDEPENDENCE.
6/26/1917	13-26--0.	40.83	124.17	D	F IV EUREKA.
7/ 6/1917	11- 1--0.	36.58	118.08	D	F VII OWENS VALLEY. FELT FROM LITTLE LAKE AT THE SOUTH TO DIVISION CREEK POWER HOUSE, 11 MILES NW OF INDEPENDENCE TO THE NORTH.
7/ 7/1917	20-57--0.	35.25	120.50	D	F LOPEZ CANYON. ALSO AT SAN LUIS OBISPO.
7/ 7/1917	21- 2--0.	35.25	120.50	D	F LOPEZ CANYON.
7/ 7/1917	21-15--0.	35.25	120.50	D	F LOPEZ CANYON.
7/ 9/1917	11-29--0.	35.25	120.50	D	F IV LOPEZ CANYON.
7/ 9/1917	5-15--0.	37.33	118.42	D	F III BISHOP.
7/ 9/1917	22-22--0.	35.25	120.50	D	F VII LOPEZ CANYON. IV AT SAN LUIS OBISPO.
7/ 9/1917	22-38--0.	35.25	120.50	D	F LOPEZ CANYON.
7/10/1917	0-43--0.	35.25	120.50	D	F LOPEZ CANYON.
7/10/1917	0-45--0.	35.25	120.50	D	F LOPEZ CANYON.
7/21/1917	16-30--0.	40.58	124.25	D	F III FERNDALE. 3 OR 4 SHOCKS.
8/23/1917	2-30--0.	37.83	122.25	D	F BERKELEY. WEAK LOCAL SHOCK.
8/28/1917	0-40--0.	37.33	118.42	D	F V OWENS VALLEY. FELT FROM BIG PINE TO BENTON. MOST SEVERE AT BISHOP (V), LAWS, AND TUNGSTEN. IV AT BIG PINE. III AT BENTON.
8/28/1917	8-40--0.	37.33	118.42	D	F IV OWENS VALLEY. FELT LESS WIDELY THAN THE PREVIOUS ONE. IV AT BISHOP. REPORTED AT BIG PINE AND LAWS.
9/ 2/1917	4--0--0.	36.58	121.92	D	F III PACIFIC GROVE.
9/ 4/1917	19-13--0.	36.67	118.00	D	F II OWENS VALLEY. REWARD GOLD MINE, 9 MILES SE OF INDEPENDENCE.
9/12/1917	11-25--0.	37.33	121.92	D	F III SAN FRANCISCO BAY REGION. FELT FROM SANTA CRUZ TO BERKELEY. III AT LOS GATOS, SAN JOSE, AND SANTA CRUZ. II-III AT

							MOUNTAIN VIEW AND SAN FRANCISCO.
9/13/1917	2-14--0.	40.83	124.17	D		F	IV EUREKA. DOUBLE SHOCK.
9/24/1917	21-21--0.	36.83	121.42	D		F	IV MONTEREY BAY REGION. FELT FROM SALINAS TO SAN FRANCISCO. HIGHEST INTENSITY (IV) REPORTED AT HOLLISTER, WATSONVILLE, AND SANTA CRUZ. III AT LOS GATOS, SALINAS, AND CAMPBELL. II-III IN SAN FRANCISCO. ORIGIN ABOUT 30 MILES FROM MT. HAMILTON, IN SOUTHERLY DIRECTION.
10/ 3/1917	7-40--0.	37.75	122.50	D		F	III SAN FRANCISCO. 3 SHOCKS. MAY NOT HAVE BEEN SEISMIC.
10/11/1917	21-26--0.	36.67	121.67	D		F	IV SALINAS. III AT SPRECKELS AND STANFORD UNIVERSITY. ORIGIN ABOUT 30 MILES SOUTH OF LICK OBSERVATORY.
10/14/1917	0-50--0.	37.75	122.50	D		F	II SAN FRANCISCO.
10/26/1917	9-20--0.	37.33	121.75	B		F	VI MT. HAMILTON. EPICENTER ON HAYWARDS FAULT, 5-10 MILES W OF MT. HAMILTON. V AT SAN JOSE. IV AT LOS GATOS. III AT STANFORD UNIVERSITY, SAN FRANCISCO, AND BERKELEY.
10/27/1917	3-49--0.	40.83	124.17	D		F	II EUREKA.
11/ 5/1917	9- 4--0.	38.83	123.00	D		F	III CLOVERDALE AND LAKEPORT.
12/ 1/1917	6-37--0.	36.92	121.75	D		F	III WATSONVILLE.
1/14/1918	-0--0--0.	40.83	124.17	D		F	EUREKA.
2/11/1918	22-45--0.	37.33	118.42	D		F	V BISHOP.
2/24/1918	0-12--0.	40.83	124.17	D		F	IV EUREKA.
3/ 1/1918	2-40--0.	37.50	118.50	D		F	II ROUND VALLEY, LASTED 15 SECONDS. FELT 6 MILES W OF ROUND VALLEY. II AT BISHOP. FELT ALSO IN FRESNO AND MONO COUNTIES
3/ 3/1918	4-30--0.	40.83	124.17	D		F	III EUREKA.
3/12/1918	10-30--0.	39.58	120.83	D		F	VIII DOWNIEVILLE. CHIMNEYS THROWN DOWN.
3/12/1918	12-30--0.	39.58	120.83	D		F	DOWNIEVILLE.
4/17/1918	6-43--0.	40.83	124.17	D		F	V EUREKA. CENTERED AT SEA OFF HUMBOLDT COUNTY COAST.
5/13/1918	8-10--0.	36.58	118.08	D		F	IV LONE PINE. 3 SHOCKS.
5/24/1918	9-35--0.	36.58	118.08	D		F	LONE PINE.
6/ 3/1918	16- 5--0.	37.17	118.58	D		F	V 18 MILES SW OF BISHOP. 2 SHOCKS. IV AT BENTON. III+ AT BISHOP.
6/29/1918	16-16--0.	36.67	121.67	D		F	IV SALINAS. III AT SPRECKELS.
7/ 1/1918	5-15--0.	36.67	121.67	D		F	III SALINAS. 2 SHOCKS.
7/12/1918	17-20--0.	36.67	121.67	D		F	III SALINAS.
7/15/1918	0-23- 0.	41.00	125.00	C	6.5	F	IX OFF HUMBOLDT COUNTY COAST. RECORDED OVER CONSIDERABLE PART OF THE EARTH. HIGHEST REPORTED INTENSITY AT EUREKA - VI. FELT ALSO AT FORT BRAGG AND BIG BAR.
7/15/1918	0-26--0.	37.17	122.17	D		F	IV BOULDER CREEK AND MORGAN HILL.
7/17/1918	-0--0--0.	36.25	118.00	D		F	III OLANCHA. FELT 12 MILES SOUTH OF OLANCHA. RATTLED DISHES, DOORS, AND WINDOWS.
7/22/1913	0-55--0.	40.83	124.17	D		F	III EUREKA.
7/27/1918	21-40--0.	36.58	117.83	D		F	IV KEELER.
8/ 3/1918	18-30--0.	37.42	122.17	D		F	III STANFORD UNIVERSITY.
8/12/1918	16-30--0.	37.75	120.17	D		F	V COULTERVILLE. PRECEDED BY LOUD RUMBLE. IV AT KAISER DIGGINGS, 15 MILES NE OF NORTH FORK.
8/20/1918	10-41--0.	40.83	124.17	D		F	IV EUREKA.
8/20/1918	18-45--0.	37.08	121.67	D		F	IV MORGAN HILL.
10/12/1918	12-30--0.	39.00	122.92	D		F	III LAKEPORT.
11/15/1918	7-47--0.	36.58	118.08	D		F	IV LONE PINE. 3 SHOCKS.
11/29/1918	23-24--0.	40.83	124.17	D		F	V EUREKA AND TABLE BLUFF.
12/ 5/1918	2-38--0.	35.67	120.67	D		F	IV PASO ROBLES. II AT SAN LUIS OBISPO.
12/ 5/1918	4-30--0.	35.25	120.67	D		F	SAN LUIS OBISPO.

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 1/ 1/1919 11-43--0.   40.42 120.67 D      F HONEY LAKE VALLEY AND SUSANVILLE.
 1/ 4/1919 23--0--0.   40.58 121.83 D      F VIII SHASTA COUNTY, 30 MILES EAST OF
                                             REDDING.  HIGH INTENSITY, VERY LOCAL SHOCK.
 1/20/1919  9-25--0.   38.25 122.33 D      F V NAPA.  IV AT ST. HELENA AND VALLEJO.
                                             ORIGIN ABOUT 20 MILES FROM BERKELEY.
 2/ 6/1919 19- 7--0.   37.42 122.17 D      F STANFORD UNIVERSITY.
 2/11/1919  0--0--0.   37.33 118.42 D      F IV BISHOP.
 2/20/1919  8-50--0.   36.58 118.08 D      F LONE PINE.  4 SHOCKS.
 2/25/1919 22-39--0.   38.33 122.50 D      F VI NORTH OF BAY COUNTIES.  ORIGIN
                                             PROBABLY IN GLEN ELLEN REGION.  VI AT NAPA, PETALUMA, SANTA ROSA, AND POINT
                                             REYES.  FELT ALSO AT SEBASTOPOL, SAN FRANCISCO, OAKLAND, STANFORD UNIVERSITY,
                                             AND MT. HAMILTON.
 3/ 1/1919  4-19--0.   36.17 120.67 D      F IV PRIEST VALLEY.
 3/15/1919  7-53--0.   35.25 120.67 D      F SAN LUIS OBISPO.
 4/13/1919 14-15--0.   37.42 122.17 D      F III STANFORD UNIVERSITY.
 5/ 2/1919  8-30--0.   40.58 122.92 D      F IV SHASTA COUNTY.  KENNETT.
 5/ 2/1919  8-38--0.   40.58 122.92 D      F III SHASTA COUNTY.  REDDING AND ANDERSON.
 5/10/1919  7-55--0.   36.58 118.08 D      F IV LONE PINE.
 6/14/1919  7-54--0.   40.83 124.17 D      F IV EUREKA.  2 SHOCKS.
 6/21/1919  6-55--0.   36.58 118.08 D      F III LONE PINE.
 6/21/1919 19-53--0.   36.58 118.08 D      F V LONE PINE.
 6/24/1919 23-24--0.   36.58 118.08 D      F V LONE PINE.  DURATION 25 OR 30 SECONDS.
 7/31/1919 21-31--0.   36.33 120.67 D      F V SAN BENITO COUNTY.  FELT AT IDRIA.
                                             ORIGIN SOME DISTANCE FROM IDRIA.
 8/10/1919  4-50--0.   37.33 118.42 D      F BISHOP.  2 SHOCKS.
 9/ 4/1919 20-16--0.   38.00 122.33 D      F VI HERCULES.  CRACKED CEMENT PIPE AND
                                             RESERVOIR.  III AT BERKELEY, OAKLAND, AND SAN FRANCISCO.
 9/12/1919 17- 7--0.   40.83 124.17 D      F IV EUREKA.  DOUBLE SHOCK.
 9/12/1919 19-30--0.   40.83 124.17 D      F V EUREKA.  DOUBLE SHOCK.
 9/12/1919 19-33--0.   40.83 124.17 D      F III EUREKA.
 9/12/1919 19-35--0.   40.83 124.17 D      F III EUREKA.
 9/12/1919 21-55--0.   40.83 124.17 D      F III EUREKA.
 9/15/1919 14- 7--0.   40.83 124.17 D      F VII EUREKA.  SOME CHIMNEYS DEMOLISHED AND
                                             WINDOWS BROKEN.
 9/15/1919 15- 8--0.   40.83 124.17 D      F IV EUREKA.
 9/15/1919 19-16--0.   40.83 124.17 D      F IV EUREKA.
 9/15/1919 19-21--0.   40.83 124.17 D      F IV EUREKA.
10/ 5/1919  2-36--0.   40.83 124.17 D      F III EUREKA.
10/13/1919 20-35--0.   36.67 121.67 D      F SALINAS.
10/19/1919 15-31--0.   37.42 122.17 D      F III STANFORD UNIVERSITY.  BUILDINGS
                                             CREAKED AND WINDOWS RATTLED.
10/25/1919 22-40--0.   36.67 121.67 D      F SALINAS.
11/25/1919 11- 3--0.   37.08 121.83 D      F V SANTA CRUZ MOUNTAINS.  ORIGIN ABOUT 10
                                             MILES NE OF SANTA CRUZ, IN REGION OF SAN ANDREAS FAULT.  SALINAS IV, SPRECKELS,
                                             STANFORD UNIVERSITY III, SAN JOSE III, CENTERVILLE V, LIVERMORE, LOS GATOS, SAN
                                             FRANCISCO III-IV, AND PETALUMA.  PROBABLY III-IV AT ALL REPORTING POINTS.
12/ 5/1919 15-34--0.   37.75 122.50 D      F IV SAN FRANCISCO.  FELT ALSO AT LAGUNA
                                             HONDA.
12/11/1919 23-27--0.   37.00 122.00 D      F V SANTA CRUZ.  FELT ALSO AT LOS GATOS, AND
                                             STANFORD UNIVERSITY III.
12/18/1919  7-15--0.   35.67 120.67 D      F PASO ROBLES.
12/20/1919  9-30--0.   38.42 122.75 D      F IV SANTA ROSA.
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3/20/1920	7- 4--0.	35.25	120.67	D	F II SAN LUIS OBISPO.
3/20/1920	17-49--0.	40.83	124.17	D	F IV EUREKA, DURATION 20 SECONDS. FELT ALSO AT BLOCKSBURG. ORIGIN AT SEA, SW OF CAPE MENDOCINO.
4/20/1920	6-20--0.	40.83	124.17	D	F III EUREKA.
5/ 7/1920	1-59--0.	35.25	120.67	D	F IV SAN LUIS OBISPO.
6/ 3/1920	5-55--0.	40.58	122.92	D	F KENNETT. 2 SHOCKS.
6/10/1920	10-53--0.	39.00	122.92	D	F IV LAKEPORT.
6/16/1920	12- 9--0.	36.58	121.67	D	F V SPRECKELS. 2 SHOCKS. FELT ALSO IN SALINAS. DISTANCE ABOUT 50 MILES SOUTH OF MT. HAMILTON.
6/28/1920	9- 1--0.	35.25	120.67	D	F V SAN LUIS OBISPO.
7/23/1920	3-55--0.	40.50	121.83	D	F VII HOT SPRINGS. CHIMNEYS AND WINDOWS BROKEN, AND DISHES JARRED FROM SHELVES. FELT FROM REDDING, NE TO FALL RIVER MILLS, AND MCARTHUR, AND ALONG MCCLOUD RIVER. ALSO AT MCCLOUD.
7/23/1920	14--0--0.	40.50	121.83	D	F HOT SPRINGS.
7/23/1920	15--0--0.	40.50	121.83	D	F HOT SPRINGS.
7/23/1920	20--0--0.	40.50	121.83	D	F HOT SPRINGS.
8/18/1920	7-20--0.	36.67	121.67	D	F III SALINAS.
9/ 9/1920	16-47--0.	37.33	121.92	D	F V SANTA CLARA COUNTY. ORIGIN ABOUT 8 MILES NE OF SAN JOSE, WHERE A SEWER PIPE WAS CRACKED AND A FEW BOTTLES UPSET. CENTERVILLE. V AT SANTA CLARA. III AT STANFORD UNIVERSITY. II AT SAN FRANCISCO.
9/17/1920	6-20--0.	39.00	122.92	D	F III LAKEPORT. RATTLED WINDOWS.
10/ 4/1920	13-31--0.	40.83	124.17	D	F III EUREKA.
10/ 5/1920	4-46--0.	40.83	124.17	D	F V EUREKA.
10/ 5/1920	19- 4--0.	36.58	121.67	D	F V MONTEREY PENINSULA. FELT AS FAR AS SAN FRANCISCO. HIGHEST INTENSITIES AT SPRECKELS AND SALINAS. UPSET A DISPLAY FIGURE IN WATSONVILLE. III AT SAN FRANCISCO, LOS GATOS, AND SAN JOSE.
10/ 7/1920	5-33--0.	37.75	122.50	D	F II SAN FRANCISCO, WESTERN SECTION.
10/ 9/1920	22-11--0.	38.42	122.75	D	F III SANTA ROSA.
12/ 6/1920	-0--0--0.	35.25	120.67	D	F SAN LUIS OBISPO.
12/13/1920	17-37--0.	36.58	118.08	D	F IV LONE PINE. RUMBLING SOUNDS.
12/18/1920	19-15--0.	36.58	121.67	D	F II SPRECKELS.
12/18/1920	20-30--0.	36.58	121.67	D	F III SPRECKELS.
12/19/1920	12-15--0.	36.58	121.67	D	F III SPRECKELS. 2 TREMORS.
12/21/1920	19-55--0.	36.58	121.67	D	F IV SPRECKELS. 3 SHOCKS. FELT ALSO AT SALINAS.
12/22/1920	4-18--0.	36.58	121.67	D	F IV SPRECKELS.
12/29/1920	9-59--0.	39.50	122.17	D	F V WILLOWS. 2 SHOCKS. FELT ALSO AT GLENN AND AT ORLAND.
1/13/1921	10-30--0.	39.50	122.17	D	F V WILLOWS. ALSO FELT 10 MILES E OF WILLOWS.
1/14/1921	12--0--0.	36.58	118.08	D	F III LONE PINE.
1/14/1921	13--0--0.	36.58	118.08	D	F IV LONE PINE.
1/14/1921	13-50--0.	36.58	118.08	D	F V LONE PINE.
3/12/1921	2-51--0.	37.83	122.25	D	F II BERKELEY.
3/22/1921	15-33--0.	40.83	124.17	D	F III EUREKA.
4/24/1921	15- 6--0.	40.83	124.17	D	F IV EUREKA.
6/12/1921	3-24- 0.0	36.75	122.00	D	F VI MONTEREY BAY. ORIGIN PROBABLY AT SEA OFF MONTEREY BAY. IV AT SALINAS. FELT ALSO AT SANTA CRUZ, SANTA CLARA, AND SAN JOSE.
7/18/1921	16-15--0.	40.67	120.75	D	F EAGLE LAKE.
7/18/1921	20-15--0.	40.67	120.75	D	F EAGLE LAKE.

7/20/1921	14-30--0.	40.67	120.75	D			F	EAGLE LAKE.
7/21/1921	20-15--0.	40.67	120.75	D			F	VI EAGLE LAKE.
7/21/1921	20-17- 0.0	40.67	120.75	D			F	VII AT EAGLE LAKE. MAIN SHOCK OF SERIES. V AT SUSANVILLE.
7/21/1921	20-20- 0.0	40.67	120.75	D			F	VI AT EAGLE LAKE.
7/25/1921	5- 5--0.	36.92	121.67	D			F	V CHITTENDEN. OVERTURNED OBJECTS AND SLOPPED MILK FROM PANS. ORIGIN NEAR CHITTENDEN, WHERE SAN ANDREAS FAULT PASSES. FELT OVER AN AREA OF 6,000 SQUARE MILES, ELLIPTICAL IN SHAPE WITH LONG AXIS FROM SAN FRANCISCO (II) TO SAN ARDO (II). IV AT WATSONVILLE, DURATION 21 SECONDS. III AT SAN JOSE. II AT IDRIA AND CENTERVILLE. FELT ALSO AT SALINAS.
8/29/1921	2- 5--0.	40.83	124.17	D			F	III EUREKA.
9/25/1921	23- 5--0.	36.83	121.42	D			F	III HOLLISTER. 3 SHOCKS, 2 MINUTES APART.
11/29/1921	9-20--0.	40.83	124.17	D			F	II EUREKA.
12/ 4/1921	16-57--0.	39.00	122.92	D			F	LAKEPORT.
1/ 1/1922	1-10--0.	38.25	122.67	D			F	PETALUMA. 3 SHOCKS.
1/26/1922	9-31-20.	41.00	126.00	C	6.0			AT SEA, NW OF CAPE MENDOCINO. NOT REPORTED FELT.
1/31/1922	13-17-22.	41.00	125.50	C	7.3	99	F	AT SEA, NW OF CAPE MENDOCINO. RECORDED WORLD-WIDE BY 106 STATIONS. FELT OVER AN AREA OF 400,000 SQUARE MILES. VI AT EUREKA. FELT FROM SAN JOSE NORTH TO ROSEBURG, OREGON.
2/ 4/1922	20-20--0.	36.67	121.67	D			F	IV SALINAS AND SPRECKELS.
2/ 5/1922	1-28--0.	40.83	124.17	D			F	III EUREKA.
2/28/1922	19-51--0.	37.25	122.00	D			F	IV LOS GATOS. DOUBLE SHOCK. LIKE EXPLOSION.
3/10/1922	11-21-20.	35.75	120.25	C	6.5	43	F	IX CHOLAME VALLEY, REGION OF SAN ANDREAS FAULT. FELT OVER AN AREA OF 100,000 SQUARE MILES. CRACKS IN THE GROUND AND NEW SPRINGS. VII-VIII AT PARKFIELD AND SHANDON. VI-VII AT SIMMLER AND SAN LUIS OBISPO. V AT LOS ANGELES.
3/16/1922	23-10--0.	35.75	120.33	D			F	VI CHOLAME VALLEY. RATHER STRONG AFTERSHOCKS. V AT SAN LUIS OBISPO AND PASO ROBLES. IV AT ANTELOPE VALLEY. ALSO AT SHANDON.
3/19/1922	11--0--0.	35.67	120.67	D			F	III PASO ROBLES.
3/23/1922	10--0--0.	35.67	120.67	D			F	III PASO ROBLES.
3/25/1922	12--0--0.	35.67	120.67	D			F	III PASO ROBLES.
5/14/1922	10-12--0.	37.75	122.17	D			F	II OAKLAND. QUESTIONABLE.
5/15/1922	20-30--0.	39.92	120.92	D			F	IV QUINCY.
5/31/1922	1-25--0.	35.67	120.67	D			F	III PASO ROBLES. 2 SHOCKS.
6/10/1922	14-55--0.	36.83	121.42	D			F	IV HOLLISTER. III AT SALINAS.
6/10/1922	20- 5--0.	36.83	121.42	D			F	IV HOLLISTER AND SALINAS.
8/ 6/1922	3-30--0.	40.83	124.17	D			F	III EUREKA. ALSO FELT AT RUTH.
8/ 6/1922	3-40--0.	40.83	124.17	D			F	IV EUREKA. ALSO FELT AT RUTH.
8/ 6/1922	5-45--0.	40.83	124.17	D			F	III EUREKA. ALSO FELT AT RUTH.
8/18/1922	5-12--0.	35.75	120.33	D			F	VII CHOLAME VALLEY. V AT SAN LUIS OBISPO AND PASO ROBLES.
8/18/1922	6-13--0.	40.83	124.17	D			F	III EUREKA.
8/19/1922	-0--0--0.	36.58	118.08	D			F	INYO COUNTY. SUPPOSED TO HAVE BROKEN LOS ANGELES AQUEDUCT NEAR HAIWEE.
8/20/1922	21-14--0.	35.50	120.67	D			F	III ATASCADERO.
9/ 4/1922	10-15--0.	35.67	120.67	D			F	IV PASO ROBLES.
9/ 5/1922	9- 5--0.	35.25	120.67	D			F	V SAN LUIS OBISPO. 2 SHOCKS.
9/18/1922	11-55--0.	40.83	124.17	D			F	III EUREKA.
10/17/1922	5-30--0.	36.83	121.42	D			F	V HOLLISTER.

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10/17/1922  5-40--0.  36.83 121.42 D        F III HOLLISTER.
11/ 4/1922  3-19--0.  40.83 124.17 D        F III EUREKA.  ORIGIN PROBABLY AT SEA.
11/ 7/1922 15- 0- 0.0 40.83 124.17 D        F III AT EUREKA.
12/ 4/1922 16-57--0.  39.00 122.92 D        F III LAKEPORT.
12/ 7/1922 -0--0--0.  37.75 122.50 D        F SAN FRANCISCO.  NIGHT.  QUESTIONABLE.
12/29/1922 11--0--0.  35.67 120.67 D        F III PASO ROBLES.
12/29/1922 12-11- 0.0 35.67 120.67 D        F III PASO ROBLES.
 1/11/1923  4-29--0.  41.50 120.17 D        F NORTHEASTERN CALIFORNIA.  CENTER PROBABLY
                                              IN LAKE COUNTY, OREGON.  REPORTED FROM CEDARVILLE, ALTURAS (WHERE PLASTER WAS
                                              DISLODGED), AND SUSANVILLE.
 1/15/1923 22- 0--0.  38.83 123.00 D        F CLOVERDALE.
 1/18/1923  4--0--0.  40.42 120.67 D        F III SUSANVILLE.  MAY REFER TO LAKE COUNTY,
                                              OREGON QUAKE OF 1/11/23.
 1/21/1923 23-15--0.  36.83 121.42 D        F HOLLISTER.
 1/22/1923  9- 4-18.  40.50 124.50 C 7.2 71 F IX SUBMARINE, OFF CAPE MENDOCINO.  VIII-IX
                                              AT UPPER MATTOLE, PETROLIA, DYERVILLE, AND PEPPERWOOD.  VI-VIII AT FERNDALE,
                                              SCOTIA, LOLETA, FORTUNA, AND ALTON.  VI-VII AT EUREKA.  V-VI AT WILLOWS, RED
                                              BLUFF, AND ORLAND.
 2/ 8/1923 10--0--0.  40.25 124.17 D        F UPPER MATTOLE.  AFTERSHOCK OF 1/22.
 2/ 8/1923 11-30--0.  40.25 124.17 D        F UPPER MATTOLE.  AFTERSHOCK OF 1/22.
 2/ 8/1923 12--0--0.  40.25 124.17 D        F UPPER MATTOLE.  AFTERSHOCK OF 1/22.
 2/ 9/1923 11-15--0.  40.83 124.17 D        F II EUREKA.  AFTERSHOCK OF 1/22.
 3/28/1923 22-13--0.  40.83 124.17 D        F III EUREKA.  AFTERSHOCK OF 1/22.
 4/ 1/1923  4-19--0.  38.42 122.75 D        F II SANTA ROSA.
 4/15/1923  7-15--0.  39.25 121.00 D        F NEVADA CITY.
 4/29/1923  2-31-29.  41.00 125.00 C 5.0     AT SEA, WEST OF CAPE MENDOCINO.  NOT
                                              REPORTED FELT.
 5/ 4/1923 22-45--0.  35.25 120.67 D        F V SAN LUIS OBISPO.  2 SHOCKS, SECOND II.
 5/ 8/1923  5- 2--0.  35.75 120.33 D        F II CHOLAME.
 6/16/1923 20-40--0.  35.67 120.67 D        F IV PASO ROBLES.  DURATION 15-20 SECONDS.
 6/25/1923 13-21--0.  35.25 120.67 D        F II SAN LUIS OBISPO.
 8/25/1923 11-21--0.  36.58 121.67 D        F V SPRECKELS, DURATION 30 SECONDS.  III+ AT
                                              SALINAS.  FELT ON MONTEREY PENINSULA.
 9/ 2/1923  6-23--0.  37.42 122.17 D        F III STANFORD UNIVERSITY.
 9/ 3/1923 12-19--0.  40.83 124.17 D        F IV EUREKA.
 9/ 6/1923 12--0--0.  38.42 122.75 D        F III SANTA ROSA.
 9/17/1923  9-26--0.  40.83 124.17 D        F IV EUREKA.
 9/19/1923 22-54--0.  37.00 121.83 D        F VI CORRALITOS, GOODS KNOCKED FROM SHELVES
                                              AS FRAME BUILDING JERKED AND SWAYED.  FELT AT SAN FRANCISCO AND OAKLAND ON THE
                                              NW, AND NEARLY AS FAR SE AS SAN BENITO.  NOT FELT EAST OF MT. HAMILTON RANGE AND
                                              ON MONTEREY PENINSULA.
10/24/1923 14-30--0.  39.00 122.92 D        F II LAKEPORT.
10/27/1923 18-47- 0.0 39.00 122.92 D        F IV AT LAKEPORT.
11/ 8/1923 20-39--0.  38.42 122.75 D        F III SANTA ROSA.
12/ 4/1923 20-50--0.  39.42 121.08 D        F IV CAMPTONVILLE, DURATION 60 SECONDS.  AT
                                              QUINCY AT 21-05, DURATION 10 SECONDS.
 1/ 4/1924 21-40--0.  36.67 121.67 D        F III SALINAS.
 1/ 9/1924 10-21--0.  40.83 124.17 D        F IV EUREKA.
 2/ 9/1924 11-40--0.  37.33 121.92 D        I SANTA CLARA.
 3/ 9/1924 11-33--0.  36.58 121.67 D        F V SPRECKELS.  III AT SALINAS.  FELT AT
                                              SANTA CLARA.  ORIGIN NEAR LOMA PRIETA, IN SAN ANDREAS FAULT REGION.
 4/ 3/1924 23-54--0.  37.33 121.67 D        F CALAVERAS VALLEY.  ORIGIN NOT FAR FROM MT.
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							HAMILTON. V-VI AT LOS GATOS AND SAN JOSE. IV AT HAYWARD. III AT SAN FRANCISCO (3 SHOCKS), AND SALINAS. ALSO FELT AT WRIGHT'S AND STOCKTON.
4/ 4/1924	1-55--0.	37.75	119.58	D		F	II YOSEMITE VALLEY.
4/11/1924	6-12--0.	37.67	122.08	D		F	II HAYWARD.
4/15/1924	21-11--0.	37.33	121.67	D		F	SANTA CLARA AND MT. HAMILTON.
4/22/1924	10- 8--0.	37.33	121.83	D		F	III SAN JOSE. ORIGIN ABOUT 7 MILES NW OF MT. HAMILTON.
4/30/1924	7-56--0.	37.83	122.25	D		F	BERKELEY. RATTLED WINDOWS.
5/26/1924	11- 5--0.	36.67	121.67	D		F	II SALINAS.
6/ 6/1924	19- 2--0.	37.33	121.67	D		F	IV ORIGIN ABOUT 4 MILES FROM MT. HAMILTON. II IN SAN FRANCISCO.
6/20/1924	4--0--0.	40.83	124.17	D		F	II EUREKA.
6/20/1924	4-30--0.	40.25	124.17	D		F	UPPER MATTOLE. POSSIBLE SAME AS ABOVE.
6/20/1924	13-20--0.	40.25	124.17	D		F	UPPER MATTOLE.
7/ 3/1924	23-55--0.	37.33	121.67	D		F	IV SAN JOSE. MAY BE MISDATED REPORT OF SHOCK OF APRIL 3.
7/ 6/1924	17-48--0.	38.42	122.75	D		F	II SANTA ROSA.
7/18/1924	3-26--0.	40.83	124.17	D		F	IV EUREKA.
9/ 1/1924	20-16--0.	38.42	122.75	D		F	III SANTA ROSA.
9/ 7/1924	13-30--0.	40.83	124.17	D		F	III EUREKA.
11/13/1924	6-23--0.	37.17	122.00	D		F	IV SANTA CRUZ MOUNTAINS. N OF SANTA CRUZ. FELT FROM BERKELEY TO SALINAS. FELT IN LOS GATOS.
12/28/1924	4-21--0.	36.67	121.67	D		F	VI SALINAS. ORIGIN POSSIBLY ON SAN ANDREAS FAULT NEAR SAN JUAN. HIGHEST INTENSITY IN SALINAS, CONSIDERABLE MINOR DAMAGE TO PLASTERING. FELT FROM KING CITY TO PALO ALTO, AND W OF MT. HAMILTON RANGE.
12/30/1924	7-27--0.	37.42	122.17	D		F	IV SAN FRANCISCO PENINSULA. STRONGEST BETWEEN PALO ALTO AND REDWOOD CITY. FELT FROM SAN FRANCISCO TO MORGAN HILL. FELT AT HAYWARD.
12/30/1924	7-50--0.	36.67	121.67	D		F	III SALINAS.
1/26/1925	5-46--0.	40.83	124.17	D		F	II EUREKA.
2/10/1925	9- 5--0.	37.50	122.33	D		F	V CRYSTAL SPRINGS LAKE. IV AT HAYWARD. FELT IN SAN FRANCISCO AND OAKLAND.
3/ 3/1925	2-50--0.	40.83	124.17	D		F	IV EUREKA. REPORTED AT 2-55 AT UPPER MATTOLE.
3/ 3/1925	11-55--0.	40.83	124.17	D		F	III EUREKA. FELT AT UPPER MATTOLE.
3/29/1925	18- 1--0.	36.67	121.67	D		F	II SALINAS.
3/31/1925	5-47--0.	39.33	120.33	D		F	VI NEAR TROY, BETWEEN EMIGRANT GAP AND DONNER LAKE. 10 OR 11 OTHER SHOCKS UNTIL 7-50, INCLUDING THE ONE FOLLOWING.
3/31/1925	6- 5--0.	39.33	120.33	D		F	V NEAR LAKEVIEW OR EDEN.
5/10/1925	13- 4--0.	38.42	122.75	D		F	II SANTA ROSA.
6/ 4/1925	12- 2-52.	41.50	125.00	C	6.0	F	AT SEA, OFF CAPE MENDOCINO. NOT REPORTED FELT.
6/29/1925	15-20--0.	35.25	120.67	D		F	III SAN LUIS OBISPO.
7/19/1925	19-24--0.	37.25	122.00	D		F	V NEAR EVERGREEN. ORIGINATED AT DEPTH OF 20 MILES. FELT FROM SANTA ROSA TO SALINAS, BUT NEVER ATTAINED INTENSITY MUCH GREATER THAN III. HIGHEST INTENSITY IN LOS GATOS-SARATOGA REGION, 10 MILES SW OF EPICENTER.
7/26/1925	23-50--0.	40.83	124.17	D		F	III EUREKA AND WADDINGTON.
8/21/1925	11-14--0.	38.00	118.50	D		F	VI CALIFORNIA-NEVADA BOUNDARY SW OF MINA, NEVADA. VI AT MINA AND CANDELARIA, NEVADA. 2 AFTERSHOCKS FELT AT MINA, 4 AT LITTLE SUMMIT, NEVADA. III AT BODIE AND MONO LAKE, CALIFORNIA.

8/22/1925	18-15--0.	38.25	122.67	D			F	III PETALUMA.
8/26/1925	6-50--0.	37.83	122.25	D			F	II BERKELEY. ORIGIN ABOUT 4 MILES DISTANT
9/30/1925	15-23--0.	37.75	122.17	D			F	IV OAKLAND-BERKELEY REGION. ORIGIN ABOUT 4 MILES DISTANT. IV AT OAKLAND. II AT SAN FRANCISCO.
10/14/1925	10-26--0.	36.67	121.67	D			F	III SALINAS.
12/ 3/1925	7-27--0.	36.67	121.25	D				ORIGIN NEAR PAICINES. NO REPORT OF PERCEPTION, BUT FEW FELT SHOCKS IN THIS AREA ARE REPORTED.
12/18/1925	9- 5--0.	40.58	122.92	D			F	IV FERN, REDDING, AND WHITMORE. RATTLED DOORS AND WINDOWS. ALSO FELT AT ANDERSON, PITT, AND RED BLUFF.
12/21/1925	11-12--0.	37.92	122.33	B			F	IV NORTH BERKELEY. LOCAL.
12/26/1925	0-28--0.	38.00	122.33	D			F	NEWMAN AND STOCKTON.
1/ 7/1926	5-53--0.	37.92	122.58	D			F	V MARIN COUNTY. ORIGIN 9 MILES NW OF BERKELEY. FELT DOWN THE SAN FRANCISCO PENINSULA TO MENLO PARK, WHERE IT WAS STRONGER THAN IN SAN FRANCISCO (III). 2 SHOCKS IN OAKLAND. III-IV IN BERKELEY. FELT AT BOLINAS, KENTFIELD, NOVATO, PETALUMA, AND AT MILL VALLEY.
4/13/1926	2-20--0.	38.67	122.92	D			F	IV GEYSERVILLE. RATTLED DOORS AND WINDOWS. LASTED 15 SECONDS IN HEALDSBURG. FELT IN DRY CREEK VALLEY.
4/13/1926	3-20--0.	38.67	122.92	D			F	HEALDSBURG.
4/27/1926	12--0--0.	39.42	123.83	D			F	IV FORT BRAGG.
5/15/1926	3-17--0.	40.50	124.08	D			F	IV SCOTIA.
5/26/1926	17-38--0.	37.42	122.17	D			F	IV STANFORD UNIVERSITY.
5/30/1926	16-53--0.	37.42	122.17	D			F	II PALO ALTO AND STANFORD UNIVERSITY.
7/25/1926	17-57-49.	36.60	120.80	D		3	F	VII NEAR IDRIA. FELT OVER AN AREA OF 30,000 SQUARE MILES. VI-VII AT IDRIA AND PANOCHE. IV AT LOS BANOS, RIVERDALE, PORTERVILLE, AND VISALIA. III-IV AT GILROY, SANGER, PRIEST, AND FOWLER. ALSO FELT AT PARKFIELD AND FRESNO. DEPTH OF FOCUS 10-15 KM. DATA FROM BSSA, V.17, P. 203.
9/21/1926	14-55--0.	40.83	124.17	D			F	IV EUREKA.
10/13/1926	19--0--0.	40.83	124.17	D			F	EUREKA.
10/13/1926	19-40--0.	40.75	122.92	D			F	WEAVERVILLE.
10/22/1926	7-23--0.	40.50	124.08	D			F	SCOTIA.
10/22/1926	9-23--0.	40.50	124.08	D			F	IV SCOTIA. BUILDINGS SWAYED.
10/22/1926	10-10--0.	35.67	120.67	D			F	III PASO ROBLES.
10/22/1926	12-35- 7.	36.61	122.35	A	6.1	4	F	VIII MONTERY BAY REGION. FELT OVER AN AREA OF 100,000 SQUARE MILES. VIII AT SANTA CRUZ. VI-VII AT POINT AND NUEVO, CAPITOLA, SALINAS, SOQUEL, POINT PINOS, LAKESIDE, MONTEREY, SAN FRANCISCO, APTOS, BOULDER CREEK, CARMEL, CASTROVILLE, DAVENPORT, AND PIGEON POINT. V-VI AT ALVARADO, KING CITY, PESCADERO, SAN GREGORIO, AND WATSONVILLE. V AT IRVINGTON, MORGAN HILL, BERKELEY, COLMA, CRYSTAL SPRINGS, GONZALES, HALFMOON BAY, HAYWARD, LOS GATOS, MARTINEZ, MILPITAS, MODESTO, NOVATO, NILES, OAKLAND, PALO ALTO, PARKFIELD, PETALUMA, PINOLE, POINT REYES STATION, RICHMOND, SAN FRANCISCO, SAN JOSE, SAN LEANDRO, SAN LORENZO, SAN LUCAS, SANTA CLARA, SARATOGA, SAUSALITO, SUISUN, AND WALNUT CREEK. THIS AND QUAKES ON OCTOBER 22, AT 13-35, 14-41, 16-3, OCTOBER 24 AT 22-51, AND FEBRUARY 15, 1927, AT 23-54 WERE ESPECIALLY INVESTIGATED BY GEORGE D. MITCHELL JR. SEE BSSA, V. 18, P. 153.
10/22/1926	13-30--0.	38.42	122.75	D			F	III SANTA ROSA.
10/22/1926	13-35-22.	36.57	122.18	A	6.1	4	F	VIII MONTEREY BAY. SIMILAR IN ALMOST EVERY WAY TO THE SHOCK 1 HOUR EARLIER. SHAKEN AREA SLIGHTLY LESS. SLIGHTLY HIGHER INTENSITY AT SAN FRANCISCO, SANTA ROSA, SANTA CRUZ, AND A FEW PLACES TOWARD THE NORTH.
10/22/1926	13-50--0.	37.00	122.00	D			F	SANTA CRUZ.
10/22/1926	13-51--0.	38.42	122.75	D			F	II SANTA ROSA.

10/22/1926	13-55--0.	37.00	122.00	D			F	SANTA CRUZ.
10/22/1926	14-41-49.5	36.62	122.11	A		4	F	V SANTA CRUZ AND MONTEREY BAY REGION. FELT AS FAR AS BERKELEY.
10/22/1926	16- 3-49.	36.65	122.10	A		2	F	MONTEREY BAY REGION. FELT AS FAR AS BERKELEY.
10/22/1926	18-55--0.	37.00	122.00	D			F	SANTA CRUZ.
10/22/1926	19-37--0.	37.00	122.00	D			F	SANTA CRUZ.
10/24/1926	22-51-49.5	37.02	122.20	A		3	F	MONTEREY BAY. FROM SANTA ROSA ON N TO LOS ALAMOS ON S. SHAKEN AREA ABOUT 50,000 SQUARE MILES.
10/26/1926	16-30--0.	36.58	121.58	D			F	CHUALAR. DURATION 45 SECONDS.
10/27/1926	12--0--0.	38.42	122.75	D			F	III SANTA ROSA.
10/31/1926	17-45--0.	37.25	122.00	D			F	II LOS GATOS.
12/ 9/1926	0- 3--0.	35.67	120.67	D			F	IV PASO ROBLES. PROBABLY MISTIMED REPORT OF SHOCK AT 0-41.
12/ 9/1926	0-41--0.	35.25	120.67	D			F	NE OF SAN LUIS OBISPO. AT SAN LUIS OBISPO DURATION 20 SECONDS. FELT AT COALINGA. ORIGIN ABOUT 120 MILES FROM MT. HAMILTON.
12/10/1926	8-38-53.	40.75	126.00	C	6.0			OFF COAST, WEST OF CAPE MENDOCINO.
12/27/1926	9-19--0.	36.17	120.33	D			F	VI NEAR COALINGA. FELT OVER AN AREA OF 25,000 SQUARE MILES. FELT AT SAN LUIS OBISPO, PORTERVILLE, OAKDALE, FRESNO, OILFIELDS, LOS BANOS, FIREBAUGH, AND MENDOTA.
12/27/1926	10-36--0.	40.83	124.17	D			F	III EUREKA.
1/ 3/1927	10-29--0.	40.83	124.17	D			F	IV EUREKA.
1/ 4/1927	9-35--0.	40.50	124.08	D			F	V SCOTIA. FELT AT FORTUNA AND RIO DELL.
2/ 4/1927	10- 2--0.	36.58	121.58	D			F	IV CHUALAR.
2/12/1927	8-46--0.	40.83	124.17	D			F	IV EUREKA.
2/15/1927	23-54- 3.5	36.95	122.26	A		2	F	VII SUBMARINE, JUST OFF SANTA CRUZ. SLIGHT DAMAGE AT SANTA CRUZ. IV AT CHUALAR AND SAN JOSE. FELT TO NAPA ON NORTH, TO LEMOORE ON THE SE, AND TO SAN LUCAS ON THE SOUTH. INDICATED SHAKEN AREA ABOUT 30,000 SQUARE MILES.
3/ 1/1927	15--0--0.	40.50	121.50	D			F	LASSEN PEAK REGION. 6 SHOCKS.
3/ 1/1927	22-26--0.	40.50	121.50	D			F	LASSEN PEAK REGION.
3/ 8/1927	9- 2--0.	39.42	123.83	D			F	IV FORT BRAGG. FELT ALSO AT CASPER AND UKIAH. 2 SHOCKS SWAYED BUILDING SLIGHTLY AT UKIAH.
3/31/1927	14-30--0.	37.33	122.92	D			F	III SAN JOSE.
4/12/1927	23-30--0.	37.00	122.00	D			F	SANTA CRUZ.
5/16/1927	14-52--0.	40.83	124.17	D			F	IV HUMBOLDT COUNTY. FELT AT EUREKA AND SCOTIA, 2 SHOCKS.
5/28/1927	17-39--0.	37.33	122.92	D			F	VI NEAR EVERGREEN. VI AT SAN JOSE, 2 SHOCKS. III AT IRVINGTON, LIVERMORE, NILES, AND SAN FRANCISCO.
6/24/1927	0-53--0.	37.33	122.92	D			F	III SAN JOSE.
8/10/1927	12-11--0.	40.83	124.17	D			F	V EUREKA. CRACKED PLASTER AND STOPPED CLOCKS. FELT ALSO AT SCOTIA.
8/20/1927	19-30--0.	40.83	124.17	D			F	III HUMBOLDT BAY. REPORTED ONLY AT CAPETOWN.
8/20/1927	20- 5-44.	41.00	124.60	D		2	F	VIII AT ARCATA, FERNDALE, EUREKA, AND FORTUNA. VI AT WADDINGTON. V AT FIELDBROOK AND HOOPA. IV-VI AT TABLE BLUFF. IV AT CAPE TOWN, OYERVILLE, KNEELAND, AND TRINIDAD. III-IV AT GARBERVILLE AND SMITH RIVER. DATA FROM BSSA V. 17, P. 213.
9/ 2/1927	-0--0--0.	37.33	121.83	D			F	VI ALUM ROCK PARK, 7 MILES E OF SAN JOSE. LOCAL.
9/ 6/1927	17-34--0.	40.83	124.17	D			F	III HUMBOLDT COUNTY. III AT EUREKA. ALSO

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                                                                FELT AT SCOTIA.
 9/16/1927  8-40--0.  40.83 124.17 D          F V EUREKA.
 9/18/1927  2- 7- 7.  37.50 118.75 C 6.0      F VII SIERRA NEVADA, W OR NW OF BISHOP.
                                                FELT OVER AN AREA OF 75,000 SQUARE MILES.  VII+ AT BISHOP.  VI AT BASS LAKE.
                                                IV-V AT BIG PINE, ABERDEEN, DEEP SPRING, FRESNO, BENTON, MONO LAKE, MARIPOSA,
                                                YOSEMITE, HANFORD, TULARE, PORTERVILLE, AND VISALIA, AND AT MINA, TONOPAH,
                                                CANDELIA, AND GOLDFIELD, NEVADA.
 9/19/1927  5-23--0.  37.33 118.50 D          F IV ROCK CREEK CANYON, NW OF BISHOP.  NOT
                                                FELT IN BISHOP.
 9/20/1927 15-40--0.  38.42 122.75 D          F III SANTA ROSA.
10/ 2/1927 18-55-30.  38.42 122.75 D          F SANTA ROSA.
10/ 2/1927 18-55-40.  38.42 122.75 D          F II SANTA ROSA.
10/ 2/1927 19-22--0.  38.42 122.75 D          F II SANTA ROSA.
12/ 2/1927  4-33- 0.0 37.75 122.17 D          F III OAKLAND. EVENING. ALSO AT CONCORD.
12/ 8/1927  0-14--0.  40.50 124.08 D          F II SCOTIA.
12/ 8/1927 22-25--0.  40.83 124.17 D          F V EUREKA.  FELT ALSO NEAR DYERVILLE.
12/ 9/1927  6-13--0.  40.83 124.17 D          F V EUREKA.  FELT BY A FEW IN SCOTIA.
12/29/1927  0-12--0.  39.17 121.08 D          F III GRASS VALLEY.
 1/ 8/1928  1- 0--0.  36.67 121.67 D          F SALINAS AND HOLLISTER.
 1/ 9/1928  2-50--0.  37.00 121.58 D          F VII AT GILROY.  ALSO FELT AT HOLLISTER,
                                                SALINAS, AND WATSONVILLE.
 1/13/1928  7--5--0.  37.30 121.90 D          F SAN JOSE.
 3/ 6/1928  4-46--0.  40.50 124.08 D          F SCOTIA.
 3/16/1928  3-30--0.  39.17 119.75 D          F CARSON CITY, NEVADA.
 3/20/1928  4-48--0.  40.50 124.08 D          F SCOTIA.
 4/15/1928 21-57-15.  40.50 121.50 D 4.5  1 F LASSEN PEAK.  V AT WILLOWS AND RED BLUFF.
                                                ALSO FELT AT UKIAH.
 4/16/1928  8- 0--0.  40.50 121.50 D          F LASSEN REGION.
 4/17/1928 10-39--0.  39.50 119.83 D          F RENO, NEVADA.
 5/16/1928 23-17--0.  37.33 118.42 D          F BISHOP.
 5/27/1928 18-49--0.  40.50 124.08 D          F SCOTIA.
 5/27/1928 23-33--0.  40.50 124.08 D          F SCOTIA.
 5/29/1928  1-59--0.  40.50 124.08 D          F SCOTIA.
 6/ 4/1928  5-30--0.  40.75 122.92 D          F VI AT TRINITY CENTER, CARRVILLE, AND
                                                WEAVERVILLE.  ALSO FELT AT EUREKA AND SCOTIA.
 7/28/1928  2-20--0.  40.83 124.17 D          F EUREKA.
 7/28/1928 22- 2--0.  37.42 122.17 D          F PALO ALTO.  WITHIN 10 MILES OF STANFORD.
 8/ 9/1928  6-35--0.  37.33 121.92 D          F SAN JOSE, WATSONVILLE, AROMAS, PALO ALTO,
                                                AND SAN FRANCISCO.
 8/14/1928  0- 0--0.  37.67 122.08 D          F HAYWARD.
 9/12/1928  1-20- 0.0 37.00 120.08 D          F VI MADERA.
 9/16/1928 10-30--0.  40.50 124.08 D          F SCOTIA AND EUREKA.
 9/16/1928 11-30--0.  40.50 124.08 D          F SCOTIA.
10/ 1/1928  4-45--0.  40.83 124.17 D          F EUREKA.
11/ 6/1928  1- 0--0.  40.50 124.08 D          F SCOTIA.
11/16/1928 11-30--0.  40.83 124.17 D          F BAY POINT.
11/16/1928 21-15--0.  37.75 122.17 D          F OAKLAND.
12/ 9/1928 21-43--0.  40.50 124.08 D          F SCOTIA.
 2/ 4/1929 15-57--0.  39.50 119.83 D          F WITHIN 10 MILES OF RENO, NEVADA.
 2/18/1929  3-25--0.  38.42 122.75 D          F SANTA ROSA.
 3/ 3/1929  1-10--0.  40.50 124.08 D          F SCOTIA.
 3/11/1929  3-30--0.  38.00 122.33 D          F STOCKTON.
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 3/19/1929 23- 0--0.   38.00 122.33 D        F STOCKTON.
 4/25/1929 22- 0--0.   40.83 124.17 D        F EUREKA.
 5/ 4/1929 10-50--0.   36.75 120.42 D        F MENDOTA.
 5/ 4/1929 23-30--0.   40.83 124.17 D        F MONTEBELLO.
 5/18/1929  4-44--0.   40.50 124.08 D        F SCOTIA AND FORTUNA.
 5/23/1929 23-17--0.   37.75 122.50 D        F SAN FRANCISCO.
 5/28/1929  7-10--0.   36.17 120.33 D        F COALINGA.
 6/14/1929 23- 0--0.   40.42 122.83 D        F COTTONWOOD.
 6/23/1929 22-12--0.   40.50 124.08 D        F SCOTIA.
 7/ 6/1929 23- 0--0.   41.75 124.17 D        F CRESCENT CITY.
 7/12/1929 13-10--0.   36.17 120.33 D        F COALINGA.
 7/14/1929 10-43--0.   36.58 118.08 D        F LONE PINE.
 8/ 2/1929 10- 2--0.   37.83 122.17 D      1 F 3 MILES NORTH OF BERKELEY, ON HAYWARD
                                               FAULT.  IV-V IN BERKELEY, EL CERRITO, AND RICHMOND.
 9/ 2/1929 17-45--0.   38.58 122.58 D        F MIDDLETOWN, CALISTOGA, AND ST. HELENA.
 9/ 8/1929 18-45--0.   38.58 122.58 D        F CALISTOGA.
 9/11/1929 15- 0--0.   38.42 122.75 D        F SANTA ROSA.
 9/15/1929  5-30--0.   38.50 122.50 D        F ST. HELENA.
 9/16/1929  3-16--0.   35.42 120.92 D        F CAYUCOS.
 9/16/1929  6-15--0.   35.42 120.92 D        F CAYUCOS.
 9/24/1929 17-27--0.   36.58 121.92 D        F MONTEREY.
 9/24/1929 17-37--0.   36.58 121.92 D        F MONTEREY.
 9/24/1929 17-52--0.   36.58 121.92 D        F MONTEREY.
10/ 5/1929 20- 3--0.   36.17 120.33 D        F COALINGA AND LIGHTHIPE.
10/ 6/1929 21-14--0.   36.17 120.33 D        F COALINGA.
10/ 7/1929  8- 0--0.   36.17 120.33 D        F COALINGA.
10/11/1929 17-55--0.   36.17 120.33 D        F COALINGA.
10/15/1929  7-57--0.   40.50 124.08 D        F EUREKA AND SCOTIA.
10/15/1929 22- 2--0.   36.17 120.67 D        F PRIEST VALLEY, KETTLEMAN HILLS, COALINGA,
                                               AND OILFIELDS.
10/31/1929 18-54--0.   40.50 124.08 D        F SCOTIA.
11/ 4/1929 17-50--0.   39.42 123.33 D        F WILLITS.
11/ 5/1929 10- 0--0.   36.58 121.92 D        F MONTEREY AND SANTA CRUZ.
11/ 6/1929 17-55--0.   37.17 119.25 D        F MOCALNO AND BIG CREEK.
11/ 7/1929  5-30--0.   36.33 119.67 D        F HANFORD.
11/ 9/1929  2-30--0.   36.17 120.33 D        F MCKITTRICK, BITTER WATER, AND COALINGA.
11/13/1929 10-40--0.   37.17 119.25 D        F MOCALNO.
11/20/1929 22-50--0.   36.42 121.00 D        F BITTER WATER.
11/24/1929  9-54--0.   36.42 121.00 D        F LONE OAK, BITTER WATER, AND LEWIS CREEK.
11/26/1929  8- 5--0.   36.42 121.00 D        F V SAN ARDO AND BITTER WATER.  FELT FROM
                                               HOLLISTER TO SANTA MARGARITA.
11/26/1929  9- 0--0.   36.42 120.83 D        F HERNANDEZ.
11/26/1929 18- 6--0.   36.42 121.00 D        F BITTER WATER.
11/28/1929 19-49--0.   36.90 118.20 A      1 F FELT OVER AN AREA OF 35,000 SQUARE MILES.
                                               VIII NEAR ABERDEEN.
11/29/1929 10- 5--0.   37.67 119.83 D        F EL PORTAL.
11/29/1929 20- 7--0.   36.42 119.00 D        F KAWEAH.
12/ 1/1929  7-15--0.   37.83 118.58 D        F BENTON AND MOCALNO.
12/ 2/1929  7- 0--0.   37.00 118.17 D        F ABERDEEN.
12/ 4/1929 10- 0--0.   37.33 123.25 D        F UKIAH.
12/ 4/1929 12-29- 0.0 40.50 124.00 D        F V ARCATA, WESTPORT, ALDERPOINT, ZENIA,
                                               CAPETOWN, BAYSIDE, SCOTIA, HOLMES, BRIDGEVILLE, MIRANDA, BLOCKSBURG, MCCANN,
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					FORTUNA, GARBERVILLE, OVERVILLE, EEL ROCK, YAGER, FIELDS LANDING, ETTERSBURG, BRICELAND, BEATRICE, EUREKA, AND FOREST GLEN.
12/ 5/1929	6-45--0.	39.42	123.33	D	F WILLITS.
12/ 5/1929	7-40--0.	36.33	119.67	D	F HANFORD.
12/ 8/1929	12-45--0.	37.00	118.17	D	F ABERDEEN.
12/11/1929	9-15--0.	36.92	121.75	D	F WATSONVILLE.
12/25/1929	19-29--0.	37.17	118.33	D	F BIG PINE.
12/25/1929	19-44--0.	37.17	118.33	D	F BIG PINE.
12/25/1929	22-29--0.	37.17	118.33	D	F BIG PINE.
1/ 9/1930	7-30--0.	37.00	122.00	D	F SAN ANDREAS FAULT IN SAN BENITO OR SANTA CRUZ COUNTY. FELT FROM LONOAK TO SANTA CRUZ.
1/ 9/1930	8- 6--0.	37.00	122.00	D	F AFTERSHOCK OF 7-30.
1/ 9/1930	8-16--0.	37.00	122.00	D	F AFTERSHOCK OF 7-30.
1/ 9/1930	9-56--0.	37.00	122.00	D	F AFTERSHOCK OF 7-30.
1/11/1930	7-18--0.	36.58	121.67	D	F AFTERSHOCK OF 1-9, 7-30. 11 MILES S OF SALINAS.
1/12/1930	10-41--0.	36.58	121.67	D	F AFTERSHOCK OF 1-9, 7-30. 11 MILES S OF SALINAS.
1/16/1930	8-15--0.	36.75	120.42	D	F MENDOTA.
1/19/1930	5-43--0.	39.92	121.33	D	F IV STORRIE.
1/19/1930	20-52--0.	36.75	121.75	D	F IV AT CASTROVILLE.
1/23/1930	4-17--0.	37.83	122.25	D	F IV OAKLAND. FELT FROM SAN FRANCISCO TO CONCORD AND FROM SAN RAFAEL TO ALVARADO. AFTERSHOCK FELT AT CANYON.
1/28/1930	8-23--0.	36.17	119.33	D	F TULARE, PORTERVILLE, LINDSAY, AND BAKERSFIELD.
2/ 2/1930	10- 0--0.	37.50	122.42	D	F EL GRANADA.
2/ 4/1930	1- 0--0.	39.92	120.92	D	F CARIBOU.
2/ 6/1930	1- 0--0.	39.92	120.92	D	F CARIBOU.
2/11/1930	21- 0--0.	41.92	122.50	D	F AGER.
2/11/1930	21-21--0.	37.42	122.00	D	F NEAR LOS ALTOS. FELT OVER AN AREA OF 4,700 SQUARE MILES. IV-V AT ALVISO, CUPERTINO, LA HONDA, PALO ALTO, AND LOS ALTOS.
2/27/1930	12-26--0.	37.17	118.33	D	F BIG PINE.
2/27/1930	21-15--0.	37.17	118.33	D	F BIG PINE.
3/10/1930	6- 0--0.	41.25	123.33	D	F FORKS OF SALMON.
3/14/1930	5-52--0.	36.08	118.00	D	F GRAND CANYON AND LITTLE LAKE.
3/20/1930	2- 1--0.	37.17	118.33	D	F BIG PINE.
3/27/1930	10-30--0.	37.58	122.33	D	F SAN MATEO.
3/27/1930	21-30--0.	40.67	124.25	D	F III ARCATA, BRIDGEVILLE, AND BUCKSPORT. FELT OVER AN AREA OF 1,600 SQUARE MILES.
4/ 2/1930	9-15--0.	40.08	120.75	D	F GENESSEE AND TAYLORSVILLE.
4/ 4/1930	9-15--0.	40.08	120.75	D	F GENESSEE AND TAYLORSVILLE.
4/ 4/1930	20-45--0.	40.08	120.75	D	F GENESSEE AND TAYLORSVILLE.
4/ 6/1930	4-23--0.	36.83	118.25	D	F SUGAR PINE, BIG CREEK, AND LAWS.
4/ 6/1930	4-28--0.	36.83	118.25	D	F SUGAR PINE, BIG CREEK, AND LAWS.
4/ 9/1930	22- 0--0.	39.25	120.00	D	F NEAR LAKE TAHOE. FELT OVER AN AREA OF 19,000 SQUARE MILES. IV AT LAKE TAHOE AND GLENBROOK, NEVADA. V AT TRUCKEE AND STOCKTON. IV AT CLEMENTS, GEORGETOWN, SACRAMENTO, STANISLAUS, AND STRAWBERRY VALLEY, AND CARSON CITY, GENOA, MINDEN, AND RENO, NEVADA.
4/ 9/1930	22-14--0.	39.25	120.00	D	F AFTERSHOCK OF 22-0.
4/12/1930	12-57--0.	39.25	119.17	D	F NEAR FERNLEY AND FALLON, NEVADA. FELT OVER AN AREA OF 15,000 SQUARE MILES. VI AT FERNLEY AND FALLON. V AT

GARDNERSVILLE, MASON, STEAMBOAT, WABUSKA, AND WEEKS, NEVADA, AND TAHOE, CALIF.

4/20/1930	0- 0--0.	40.67	121.92	D		F	WHITMORE.
4/29/1930	20-13--0.	40.58	122.92	D		F	MILLVILLE, REDDING, KENNET, AND PAYNES CREEK.
5/ 2/1930	7- 3--0.	37.92	122.08	D		F	LAFAYETTE.
5/ 7/1930	13-38--0.	37.00	121.92	D		F	APTOS, CAPITOLA, SANTA CRUZ, AND WATSONVILLE.
5/11/1930	23-59--0.	36.42	121.25	D		F	PINNACLES.
5/13/1930	10-18--0.	37.67	121.75	D		F	LIVERMORE.
5/15/1930	15-30--0.	40.50	124.17	D		F	ALTON, LOLETA, UPPER MATTOLE, AND SCOTIA. FELT OVER AN AREA OF 1,500 SQUARE MILES.
5/18/1930	11-15--0.	37.42	122.00	D		F	AGNEW.
5/29/1930	13-15--0.	37.08	120.83	D		F	SAN ANDREAS FAULT. FELT AT DOS PALOS, TRENT, LOS BANOS, AND BRITO. NUMEROUS FORESHOCKS AND AFTERSHOCKS.
7/21/1930	7-25--0.	36.58	121.67	D		F	SPRECKELS.
8/ 5/1930	0-11- 6.	39.75	127.42	C	5.3 1		OFF COAST, WEST OF CAPE MENDOCINO.
8/ 8/1930	3-45--0.	36.58	121.58	D		F	CHUALAR.
8/ 8/1930	7-41--0.	36.58	121.92	D		F	MONTEREY AND SPRECKELS.
8/11/1930	13- 0--0.	36.58	118.08	D		F	LONE PINE, OWENYO, INDEPENDENCE, AND KEELER.
8/28/1930	5-15--0.	36.42	121.33	D		F	SOLEDAD.
9/ 2/1930	16-25--0.	37.00	122.00	D		F	SANTA CRUZ.
9/ 3/1930	19-44--0.	37.17	119.25	D		F	BIG CREEK, BASS LAKE, AND THE PINES.
9/19/1930	7-55--0.	37.92	122.92	D		F	BOLINAS.
9/22/1930	22- 0--0.	37.92	122.08	D		F	LAFAYETTE.
9/23/1930	2-58--0.	40.83	124.17	D		F	EUREKA AND FIELDS LANDING. FELT OVER AN AREA OF 4,600 SQUARE MILES ON LAND. VIII AT EUREKA AND FIELDS LANDING. VI AT CAPETOWN, CRANNELL, HOLMES, KORBEL, SAMOA, AND STUMPVILLE. V AT ALTON, BAYVIEW, BRIDGEVILLE, DYERVILLE, FERNBRIDGE, FIELDBROOK, FRESHWATER, GRIZZLY BLUFF, LOLETA, PEPPERWOOD, SCOTIA, SHOWERS PASS, SKELLY, TRINIDAD, AND WEOTT.
9/23/1930	13-55--0.	40.83	124.17	D		F	AFTERSHOCK OF 2-58. FELT OVER AN AREA OF 1,200 SQUARE MILES. FELT AT BRIDGEVILLE, FERNBRIDGE, FERNDALE, EUREKA, TRINIDAD, AND WHITLOW.
9/26/1930	9-30--0.	39.83	120.50	D		F	PORTOLA.
9/28/1930	3- 0--0.	40.92	124.08	D		F	ARCATA.
10/28/1930	13-57--0.	35.42	120.92	D		F	OFF COAST NEAR CAYUCOS. FELT AT NIPOMO.
10/29/1930	10-30--0.	40.58	122.42	D		F	REDDING. SERIES OF 13 SHOCKS, FIRST OF 7 PRINCIPAL ONES LISTED HERE.
10/29/1930	11-30--0.	40.58	122.42	D		F	INGOT, BAIRD, AND REDDING.
10/29/1930	12-37--0.	40.67	121.92	D		F	INWOOD, MINERAL, MILLVILLE, REDDING, AND LAMOINE.
10/29/1930	19-28--0.	40.50	122.08	D		F	INWOOD AND MILLVILLE.
10/29/1930	19-38--0.	40.33	121.58	D		F	BAIRD AND MINERAL.
10/29/1930	19-50--0.	40.58	122.42	D		F	REDDING AND INGOT.
10/30/1930	4-29--0.	40.33	121.58	D		F	MINERAL AND MILLVILLE.
11/ 1/1930	0- 0--0.	40.58	122.42	D		F	KENNET.
11/ 7/1930	7-13--0.	37.08	120.83	D		F	IOWA HILL.
11/10/1930	5-11--0.	36.92	118.17	D		F	ABERDEEN.
11/11/1930	8-55--0.	40.33	123.33	D		F	FOREST GLEN.
11/17/1930	17-43--0.	40.33	123.33	D		F	FOREST GLEN.
11/21/1930	1-30--0.	40.50	123.83	D		F	BRIDGEVILLE.
12/ 7/1930	20-45--0.	40.25	124.17	D		F	UPPER MATTOLE.

12/ 8/1930	22- 0--0.	39.33	123.25	D		F	UKIAH.
12/11/1930	9- 0--0.	40.08	124.50	D		F	AT SEA. FELT OVER AN AREA OF 11,800 SQUARE MILES. VI AT FERNDALE, SPYROCK, HARRIS, AND WADDINGTON. V AT ALTON, CHICO, ETTERSBURG, FERNBRIDGE, WEOTT, AND ZENIA. 18 AFTERSHOCKS ON THE 11TH.
12/11/1930	12-28- 0.0	40.92	124.08	D		F	AFTERSHOCK OF 9-0. FELT AT HYDESVILLE, SAMOA, BRIDGEVILLE, EUREKA, FERNBRIDGE, AND SCOTIA.
12/12/1930	4-50--0.	40.92	124.08	D		F	AFTERSHOCK OF 12/11, 9-0. FELT AT HYDES-VILLE, FERNDALE, SCOTIA, ALTON, AND WEOTT.
12/12/1930	9-32--0.	39.83	123.58	D		F	AFTERSHOCK OF 12/11, 9-0. FELT OVER AN AREA OF 3,600 SQUARE MILES. V-VI AT CUMMINGS. V AT WADDINGTON. IV AT UPPER MATTOLE, WEOTT, ALDER POINT, HARRIS, ETTERSBURG, AND WHITLOW. 21 AFTERSHOCKS ON THE 12TH.
12/12/1930	10- 0--0.	39.33	123.25	D		F	AFTERSHOCK OF 12/11, 9-0. FELT AT UKIAH.
12/12/1930	20-16--0.	40.67	124.32	D		F	AFTERSHOCK OF 12/11, 9-0. V AT FERNBRIDGE, WEOTT, AND WADDINGTON.
12/12/1930	22- 0--0.	39.33	123.25	D		F	AFTERSHOCK OF 12/11, 9-0. FELT AT UKIAH.
12/14/1930	1-39--0.	40.50	124.08	D		F	AFTERSHOCK OF 12/11, 9-0. FELT AT SCOTIA AND ALTON. 3 AFTERSHOCKS ON THE 13TH.
12/14/1930	20- 0--0.	40.25	124.17	D		F	AFTERSHOCK OF 12/11, 9-0. UPPER MATTOLE.
12/15/1930	8-39--0.	40.83	124.17	D		F	AFTERSHOCK OF 12/11, 9-0. EUREKA AND WHITLOW.
12/15/1930	20-35--0.	40.25	123.67	D		F	AFTERSHOCK OF 12/11, 9-0. BLOCKSBURG AND SCOTIA.
12/23/1930	9-10--0.	40.83	124.17	D		F	AFTERSHOCK OF 12/11, 9-0. EUREKA AND SCOTIA.
12/24/1930	9-11--0.	40.50	123.83	D		F	AFTERSHOCK OF 12/11, 9-0. BRIDGEVILLE, FERNDALE, ALTON, SCOTIA, WHITLOW, AND UPPER MATTOLE. 4 AFTERSHOCKS ON THE 24TH.
12/27/1930	22-14--0.	40.58	124.25	D		F	AFTERSHOCK OF 12/11, 9-0. FERNDALE, LOLETA, AND ALTON.
12/28/1930	10-22--0.	36.58	121.67	D		F	SPRECKELS.
12/29/1930	13-30--0.	38.75	120.58	D		F	POLLOCK AND ANTLER.
12/30/1930	13-37--0.	40.58	122.42	D		F	SIMS, REDDING, DUMSMUIR, AND CASTELLA.
1/ 1/1931	1-15--0.	37.75	119.08	D		F	NEAR JUNE LAKE.
1/ 2/1931	18-35--0.	40.25	124.17	D		F	UPPER MATTOLE.
1/ 3/1931	5-49--0.	40.50	124.08	D		F	IV AT ALTON. ALSO FELT AT SCOTIA.
1/ 4/1931	6- 0--0.	40.25	124.17	D		F	UPPER MATTOLE.
1/ 4/1931	6-10--0.	40.25	124.17	D		F	UPPER MATTOLE.
1/ 4/1931	18-35--0.	40.25	124.17	D		F	UPPER MATTOLE.
1/ 5/1931	9-43--0.	37.58	122.42	D		F	ON SAN ANDREAS FAULT BETWEEN SAN MATEO AND HALF MOON BAY. V AT SAN BRUNO AND BURLINGAME. IV AT SAN MATEO AND EL GRANADA.
1/ 5/1931	11-15--0.	37.58	122.33	D		F	SANTA CRUZ, SAN MATEO, APTOS, AND BURLINGAME.
1/ 5/1931	12-10--0.	37.58	122.33	D		F	BURLINGAME.
1/ 6/1931	23-28-40.0	36.50	121.40	D	4.0	F	EAST OF CHUALAR (V). ALSO FELT AT HOLLISTER, SPRECKELS, SANTA CRUZ, AND APTOS.
1/ 7/1931	23- 4--0.	40.25	124.17	D		F	UPPER MATTOLE.
1/ 7/1931	23-40--0.	40.25	124.17	D		F	UPPER MATTOLE AND SCOTIA.
1/ 8/1931	1-15--0.	40.08	123.92	D		F	BRICELAND.
1/10/1931	7-58--0.	37.50	122.33	D		F	EL GRANADA.
1/20/1931	10-30--0.	39.42	123.33	D		F	WILLITS AND REDWOOD VALLEY.
1/21/1931	11-20--0.	39.50	119.83	D		F	RENO, NEVADA.
1/24/1931	7-21- 0.0	39.75	121.80	D		F	IV AT ORLAND AND LAS PLUMAS. ALSO FELT

						AT OROVILLE, LIVE OAK, BIGGS, EL GRANADA, DE SABLA, CHICO, GRIDLEY, AND RED BLUFF.
1/29/1931	7-24--0.	37.50	122.42	D	F	EL GRANADA.
2/ 7/1931	7-40--0.	36.92	121.58	D	F	SARGENT.
2/12/1931	21-25--0.	37.42	122.17	D	F	STANFORD.
2/17/1931	15-59--0.	36.92	121.58	D	F	SARGENT.
2/21/1931	8-10--0.	35.67	121.33	D	F	NW OF SAN LUIS OBISPO. FELT AT PIEDRAS BLANCAS AND BRYSON.
2/23/1931	10- 1--0.	35.83	120.50	D	F	FELT OVER AN AREA OF 5,000 SQUARE MILES. V AT TEMPLETON, PARKFIELD, AND CAYUCOS.
2/23/1931	10-33--0.	35.83	120.50	D	F	SAME AS ABOVE.
3/10/1931	3-28-53.	40.00	125.00	C	F	100 KM WEST OF CAPE MENDOCINO. IV AT ARCATA, BRIDGEVILLE, FERNDALE, AND UPPER MATTOLE.
4/ 2/1931	11- 0--0.	37.83	122.33	D	F	GOAT ISLAND.
4/ 4/1931	5-45--0.	37.75	122.50	D	F	SAN FRANCISCO.
4/ 4/1931	6- 0--0.	37.75	122.50	D	F	IV SAN FRANCISCO.
4/ 4/1931	7-45--0.	38.58	122.58	D	F	CALISTOGA.
4/ 5/1931	3- 0--0.	36.17	121.00	D	F	SE OF KING CITY.
4/ 6/1931	8- 7--0.	38.58	122.58	D	F	CALISTOGA.
4/15/1931	17- 0--0.	37.42	118.33	D	F	LAWS.
4/26/1931	1-40--0.	40.83	124.17	D	F	HUMBOLDT BAY AND EUREKA.
5/20/1931	8- 1--0.	40.83	124.17	D	F	EUREKA, ALTON, SCOTIA, AND HUMBOLDT BAY.
5/29/1931	10-43--0.	38.58	122.58	D	F	CALISTOGA.
6/ 4/1931	5-25--0.	40.17	120.92	D	F	GREENVILLE.
6/ 4/1931	5-40--0.	39.92	120.92	D	F	QUINCY AND CARIBOU.
6/ 5/1931	11-30--0.	40.25	124.33	D	F	PUNTA GORDA.
6/ 5/1931	12-45--0.	36.08	118.00	D	F	LITTLE LAKE.
6/ 5/1931	22-30--0.	40.25	124.17	D	F	UPPER MATTOLE.
6/ 6/1931	2-10--0.	38.50	118.17	D	F	LUNING, NEVADA.
6/ 6/1931	9-30--0.	37.08	121.67	D	F	MORGAN HILL.
6/ 7/1931	7-45--0.	36.58	121.92	D	F	III AT CARMEL. ALSO FELT AT SPRECKELS, CHUALAR, CAPITOLA, GONZALES, HOLLISTER, SALINAS, AND SANTA CRUZ.
6/ 9/1931	12-15--0.	37.58	122.08	D	F	III AT ALVARADO. ALSO FELT AT BOULDER CREEK AND CAPITOLA.
6/10/1931	7-20--0.	37.00	122.00	D	F	IV AT SANTA CRUZ AND OLYMPIA. ALSO FELT AT AND NUEVO, BOULDER CREEK, LAUREL, GILROY, SAN JOSE, AND PIGEON POINT.
6/10/1931	12-20--0.	37.33	121.92	D	F	IV AT SAN JOSE, ALVISA, AND AGNEW. ALSO FELT AT ALVARADO, SANTA CRUZ, SARATOGA, GILROY, BOULDER CREEK, CENTERVILLE, IRVINGTON, LAUREL, LIVERMORE, LOS GATOS, CAMPBELL, DAVENPORT, AND HALF MOON BAY.
6/10/1931	13-14--0.	37.08	122.08	D	F	BROOKDALE.
6/12/1931	7- 0--0.	37.00	122.00	D	F	SANTA CRUZ.
6/16/1931	14-54--0.	37.08	121.67	D	F	MORGAN HILL.
6/28/1931	10- 9- 0.0	37.95	122.33	D	F	RICHMOND, BERKELEY, SOUTHHAMPTON SHOAL, AND SAN FRANCISCO.
7/18/1931	6-39--0.	38.58	121.50	D	F	SACRAMENTO.
7/21/1931	3-25--0.	35.25	120.67	D	F	SAN LUIS OBISPO.
7/21/1931	12- 8--0.	35.25	120.67	D	F	IV AT HALCYON, NIPOMO, TEMPLETON, OCEANO, AND LOS ALAMOS. ALSO FELT AT PORT SAN LUIS, SANTA MARIA, SANTA MARGARITA, GAVIOTA, CAMBRIA, SAN LUIS OBISPO, AND PIEDRAS BLANCAS.
7/22/1931	6-55--0.	36.83	121.42	D	F	HOLLISTER.
7/28/1931	19- 0--0.	36.83	121.75	D	F	MOSS LANDING.
8/ 5/1931	1-10--0.	40.58	124.17	D	F	FORTUNA AND CAPE MENDOCINO.

8/ 9/1931	1- 0--0.	40.83	124.17	D			F	EUREKA.
8/12/1931	9-32--0.	37.33	121.92	D			F	SANTA CLARA.
8/19/1931	16-50--0.	37.58	122.33	D			F	IV AT SAN MATEO AND BURLINGAME.
8/21/1931	16-50--0.	37.58	122.33	C			F	WITHIN 4 MILES OF SAN MATEO. FELT AT REDWOOD CITY AND SAN MATEO.
8/23/1931	18- 1-35.	40.20	125.60	D	5.3	1	F	OFF CAPE MENDOCINO. FELT OVER A LAND AREA OF 4,500 SQUARE MILES. VI AT PUNTA GORDA AND HYDESVILLE. V AT ALTON, BRICELAND, FERNBRIDGE, GARBERVILLE, HUMBOLDT BAY, EUREKA, LOLETA, METROPOLITAN, AND PEPPERWOOD.
8/24/1931	0-30--0.	37.75	122.25	D			F	ALAMEDA.
8/24/1931	5- 0--0.	40.83	124.17	D			F	HUMBOLDT BAY AND WILLOW CREEK.
9/ 2/1931	15-34-28.	41.80	123.00	D	4.5			CALIFORNIA-OREGON BORDER. BERKELEY S-P = 44 SECONDS.
9/ 5/1931	11-25--0.	37.92	122.33	B		1	F	4 MILES NW OF BERKELEY. IV AT RICHMOND. ALSO FELT AT BERKELEY, OAKLAND, EL CERRITO, SAN ANSELMO, AND SOUTHAMPTON SHOAL.
9/ 8/1931	14-40--0.	40.58	124.08	D			F	CARLOTTA.
9/ 9/1931	13-40-30.	40.80	125.00	D	5.8	1	F	OFF COAST NEAR EUREKA. FELT OVER AN AREA OF 15,000 SQUARE MILES. VI AT BLOCKSBURG, DYERVILLE, FERNBRIDGE, FERNDALE, HOLMES, AND WEOTT. V AT ALDERPOINT, BRICELAND, BELL SPRINGS, BRANSCOMB, COVELO, CHICO, DOS RIOS, EEL ROCK, EUREKA, FORT SEWARD, FRUITLAND, FORTUNA, GARBERVILLE, ISLAND MOUNTAIN, KNEELAND, MIRANDA, PEPPERWOOD, PUNDA GORDA, SCOTIA, SKELLY, UPPER MATTOLE, WHITLOW, AND ZENIA.
9/ 9/1931	14-16--0.	40.67	124.00	D			F	AFTERSHOCK OF 13-40. FELT AT KNEELAND AND FRUITLAND.
9/ 9/1931	14-45--0.	40.50	124.08	D			F	AFTERSHOCK OF 13-40. FELT AT EEL ROCK, HAYFORK, AND SCOTIA.
9/10/1931	0-30--0.	40.50	124.08	D			F	AFTERSHOCK OF 13-40. FELT AT FORTUNA, SCOTIA, AND WADDINGTON.
9/10/1931	13-30--0.	39.75	121.83	D			F	CHICO.
9/10/1931	14-35--0.	35.50	120.67	D			F	ATASCADERO.
9/20/1931	6-41--0.	40.42	124.42	D			F	CAPE MENDOCINO.
9/23/1931	8-25--0.	37.08	118.17	D			F	NEAR TINEMAHA. VI AT ABERDEEN, BIG PINE, HAIWEE, AND LONE PINE.
9/30/1931	14-35--0.	35.50	120.67	D			F	ATASCADERO.
10/ 9/1931	13-30--0.	40.33	123.42	D			F	RUTH.
10/ 9/1931	19-50--0.	36.67	121.67	D			F	V AT ANTELOPE VALLEY. ALSO FELT AT SALINAS.
10/ 9/1931	19-50--0.	37.75	122.50	D			F	SAN FRANCISCO.
10/13/1931	12-25--0.	36.33	121.67	D			F	JAMESBURG.
10/18/1931	19-53--0.	36.33	121.67	D			F	IV AT JAMESBURG, HOLLISTER, AND SPRECKELS. ALSO FELT AT APTOS, CARMEL, CHUALAR, MONTEREY, MOSS LANDING, PARAISO, SALINAS, AND SANTA CRUZ.
10/20/1931	18-56--0.	36.58	121.58	D			F	CHUALAR.
10/20/1931	19-15--0.	38.00	122.50	D			F	SAN RAFAEL.
10/21/1931	16-55--0.	36.58	121.92	D			F	MONTEREY.
10/25/1931	19-27--0.	40.58	124.17	D			F	FORTUNA.
10/27/1931	16-37--0.	36.92	121.58	D			F	SARGENT.
11/ 5/1931	5-43--0.	39.00	118.17	D			F	ABERDEEN.
11/11/1931	11- 5--0.	39.42	123.33	D			F	WILLITS.
11/16/1931	6-45--0.	38.25	122.92	D			F	NEAR TOMALES BAY. FELT AT BOLINAS AND SUISUN CITY.
11/22/1931	10-52--0.	39.25	123.25	D			F	CALPELLA, COMPTCHE, FORT BRAGG, REDWOOD

									VALLEY, AND UKIAH.
11/22/1931	11-30--0.	39.17	122.92	D			F		UPPER LAKE.
11/25/1931	12-18--0.	39.17	118.25	D			F		NW OF TINEMAHA. FELT AT ABERDEEN, BIG CREEK, FLORENCE LAKE, AND LEMON COVE.
11/25/1931	18-45--0.	39.00	118.17	D			F		ABERDEEN.
11/25/1931	19- 9--0.	36.67	121.83	D			F		MONTEREY.
11/27/1931	14-14-0.	40.58	124.17	D			F		FORTUNA.
11/27/1931	20-17--0.	37.17	119.25	D			F		BIG CREEK.
11/28/1931	14-12-51.	39.80	125.60	D	4.0	1	F	IV	AT FERNBRIDGE AND SAMOA. ALSO FELT AT HUMBOLDT BAY, TABLE BLUFF, ALTON, BAYSIDE, BEATRICE, FERNDALE, CRESCENT CITY, FORTUNA, SHIVELY, WADDINGTON, AND EUREKA.
12/ 4/1931	0-53--0.	36.50	121.67	D			F		10 MILES S OF SPRECKELS. FELT AT METZ, HOLLISTER, SPRECKELS, PIGEON POINT, AND SANTA CRUZ.
12/ 5/1931	5-30--0.	36.83	121.42	D			F		HOLLISTER.
12/11/1931	9- 1--0.	40.50	124.08	D			F		SCOTIA.
12/14/1931	16-30--0.	39.83	120.50	D			F		PORTOLA, SPRING GARDEN, QUINCY, AND SUSANVILLE.
12/15/1931	16-20--0.	39.83	120.50	D			F		PORTOLA, SUSANVILLE, AND QUINCY.
12/17/1931	20- 6--0.	37.25	122.00	D			F		AGNEW, CAMPBELL, SAN JOSE, AND APTOS.
12/19/1931	6- 0--0.	38.00	123.00	D			F		V POINT REYES.
1/ 3/1932	21- 7--0.	37.50	122.33	D			F		CRYSTAL SPRINGS LAKE. FELT AT SAN FRANCISCO.
1/ 5/1932	13-59- 4.	40.42	124.42	D	4.5	1	F		NEAR CAPE MENDOCINO. IV AT ALDERPOINT, ARCATA, BLOCKSBURG, CAPE MENDOCINO, FERNDALE, FORTUNA, HYDESVILLE, SAMOA, SHIVELY, AND WESTPORT.
1/ 8/1932	18-16-59.	36.67	121.33	D	4.0	1	F	III	IN HOLLISTER, SALINAS, AND SARGENT.
1/11/1932	2-55- 0.0	36.92	121.75	D			F	IV	AT WATSONVILLE.
1/14/1932	3-16-16.	36.58	117.82	B	3.0	1	F		SALINE VALLEY. IV AT KEELER.
1/14/1932	14-10--0.	39.33	123.08	D			F	IV	AT POTTER VALLEY.
1/29/1932	4-14- 8.	36.83	121.42	D	3.5		F	III	AT HOLLISTER AND SALINAS.
2/ 2/1932	20-51-47.	36.56	120.60	C	3.5	1	F		EAST OF PANOCHE. III AT METZ.
2/ 5/1932	4-14-45.	35.83	121.47	C	3.5	1	F		COAST OF MONTEREY COUNTY. FELT AT PIEDRAS BLANCAS LIGHT AND SALMON CREEK.
2/ 5/1932	6-46-54.	35.83	121.47	C	3.5	1	F		COAST OF MONTEREY COUNTY. FELT AT PIEDRAS BLANCAS LIGHT AND SALMON CREEK.
2/ 5/1932	7-10--0.	35.83	121.47	C			F		AFTERSHOCK OF PRECEDING.
2/11/1932	6-55- 0.0	36.83	121.75	D			F	III	AT WATSONVILLE.
2/25/1932	7-35--0.	37.70	122.16	B			F		EIGHT KM NW OF HAYWARD. IV AT ALAMEDA AND OAKLAND.
2/26/1932	16-58--0.	36.00	121.00		5.0		F	IV	APTOS, ASILOMAR, GONZALES, METZ, CARMEL, PEBBLE BEACH, MONTEREY, PACIFIC GROVE, DELMONTE.
2/29/1932	17-15--0.	36.58	121.92	D			F		MONTEREY.
3/ 2/1932	17-14-36.	40.20	127.00	D	5.6	1			WEST OF CAPE MENDOCINO.
4/16/1932	18-48-10.	36.67	121.22	C	4.5	1	F	III	GUSTINE, MERCED. (EPICENTER IN SAN BENITO COUNTY).
4/16/1932	18-55- 4.	37.20	120.80	D					AFTERSHOCK OF 18-48-10.
4/16/1932	18-57- 0.	37.20	120.80	D	3.0				AFTERSHOCK OF 18-48-10.
4/21/1932	3-36-20.	35.50	120.67	D	3.0		F		ATASCADERO.
4/21/1932	12-24--0.	38.25	122.67	D			F		PETALUMA.
4/22/1932	0- 8-16.	36.78	120.75	C	4.0	1			SW OF ORO LOMA, FRESNO COUNTY.
4/26/1932	22-50--0.	40.42	124.42	D			F		NEAR CAPE MENDOCINO. IV AT UPPER MATTOLE AND PUNTA GORDA.

5/ 4/1932	8- 0--0.	40.33	124.25	D			F	UPPER MATTOLE.
5/ 4/1932	9-30--0.	40.83	124.16	D			F	FELT AT EUREKA, FORTUNA, SCOTIA, AND WADDINGTON.
5/16/1932	3-37- 8.0	36.00	120.50	C	3.0		F	PARKFIELD.
5/22/1932	8-16-56.	37.33	117.50	C	4.0	1		SOUTHERN ESMERALDA COUNTY, NEVADA.
5/28/1932	6-40--0.	40.58	124.16	D			F	FORTUNA, UPPER MATTOLE, AND SCOTIA.
6/ 2/1932	2- 5--0.	40.58	124.16	D			F	FORTUNA.
6/ 5/1932	20-52- 0.0	40.83	124.16	D			F	EUREKA, AFTERNOON.
6/ 6/1932	8-44-22.	40.75	124.50		6.4	1	F	VIII AT ARCATA, BAYSIDE, BEATRICE, BLUE LAKE, BLUNTS REEF, BRIDGEVILLE, EEL RIVER, CRESCENT CITY, EUREKA, FIELDS LANDING, FORT DICK, FORTUNA, HUMBOLDT BAY, KORBEL, LOLITA, SOUTH BAY, TABLE BLUFF.
6/ 6/1932	9-26- 9.	41.00	125.00	D	4.0	1		AFTERSHOCK OF 8-44-22.
6/12/1932	6-38--0.	40.58	124.16	D			F	FORTUNA.
6/12/1932	10- 0--0.	37.33	122.08	D			F	CUPERTINO.
6/13/1932	9- 5--0.	38.08	122.58	D			F	NOVATO.
6/14/1932	9-44-17.	37.25	122.08	D	4.5	1	F	IV AT AGNEW, ALAMEDA, APTOS, BOLINAS, BOULDER CREEK, BURLINGAME, CAMPBELL, CENTERVILLE, COLMA, HALF MOON BAY, IRVINGTON, LOS GATOS, MILPITAS, MT. HERMON, OAKLAND, PETALUMA, REDWOOD CITY, SAN ANSELMO, SAN FRANCISCO, SAN JOSE, SAN RAFAEL, SANTA CRUZ, SOUTH HAMPTON SHOAL, TOMALES, WATSONVILLE.
6/16/1932	11-10--0.	39.67	121.00	D			F	IV NEAR TAYLORSVILLE.
6/23/1932	7-29--0.	38.92	123.75	D			F	III AT POINT ARENA.
6/27/1932	5-17-25.	36.00	122.00	D	4.0			COAST OF MONTEREY COUNTY.
6/30/1932	0-23--0.	37.58	122.00	D	3.0		F	IRVINGTON.
7/11/1932	13- 0--0.	40.50	123.16	D			F	IV AT PEANUT.
7/12/1932	4-33-41.0	37.60	121.83	B	3.0		F	FIVE MI. WEST OF LIVERMORE. III AT LIVERMORE.
7/19/1932	23-35--0.	36.67	121.16	D	3.5	1	F	BETWEEN CORRALITOS AND WATSONVILLE. FELT AT APTOS.
7/22/1932	1-14--0.	39.33	123.25	D			F	UKIAH.
7/26/1932	6-51-58.	35.80	118.53	B	4.5	1	F	VI AT MINERAL KING AND SPRINGVILLE. V AT CALIFORNIA HOT SPRINGS, GREENHORN MOUNTAIN, INDEPENDENCE, KAWEAH, KERN RIVER, KERNVILLE, LEMON COVE, LINDSAY, PORTERVILLE, POSEY, SEQUOIA NATIONAL PARK, VISALIA.
7/29/1932	6-53--0.	36.16	118.00	D			F	HAIWEE POWER HOUSE.
8/ 3/1932	5-47-25.	38.00	117.00	D	4.0			NEVADA, 180 KM FROM TINEMAHA.
8/23/1932	19-10--0.	37.42	118.33	D			F	IV AT LAWS.
8/24/1932	9- 8-38.	37.33	118.82	C	4.0	1		SIERRA NEVADA, WEST OF BISHOP.
8/25/1932	6-13--0.	37.42	118.33	D			F	IV AT LAWS.
9/16/1932	22- 7-58.	40.00	126.20	D				WEST OF CAPE MENDOCINO.
9/22/1932	20-50--0.	38.58	122.58	D			F	CALISTOGA.
9/23/1932	7-48--0.	38.58	122.58	D			F	IV AT CALISTOGA AND ST. HELENA.
9/23/1932	11-45--0.	38.58	122.58	D			F	CALISTOGA.
9/28/1932	11-52-45.	40.00	126.20	D	5.0	1		WEST OF CAPE MENDOCINO.
9/29/1932	21-30--0.	37.42	118.33	D			F	IV AT LAWS.
9/29/1932	15-31--0.	37.33	121.47	B			F	TEN MILES EAST OF MT. HAMILTON. IV AT MT. HAMILTON.
10/ 6/1932	0-38- 0.0	40.50	124.08	D			F	III AT SCOTIA.
10/ 8/1932	0-57--0.	40.50	124.16	D			F	III AT ALTON.
10/16/1932	14-15--0.	37.00	121.58	D			F	IV AT GILROY, HOLLISTER, AND WATSONVILLE.
10/19/1932	16-41--0.	36.58	121.92	D			F	IV AT DEL MONTE, MONTEREY, AND SANTA CRUZ.

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10/20/1932 21-25--0.  36.92 121.75 D          F III AT WATSONVILLE.
10/21/1932 10-30--0.  38.25 122.67 D          F III AT PETALUMA.
10/23/1932 14-30--0.  36.58 121.92 D          F MONTEREY PENINSULA.
10/24/1932  4-45--0.  35.75 120.75 D          F PASO ROBLES.
10/24/1932 10- 5--0.  37.75 122.50 D          F IV AT SAN FRANCISCO.
10/25/1932  1- 7--0.  37.75 122.50 D          F IV AT OAKLAND, SAN FRANCISCO, AND SOQUEL.
10/26/1932  9- 0--0.  37.67 122.42 D          F III AT COLMA.
10/31/1932 15- 3--0.  39.00 123.08 D          F IV AT HOPLAND.
11/ 3/1932  5-58--0.  36.58 121.67 D          F III AT SPRECKELS.
11/ 3/1932 18-56--0.  37.16 122.16 D          F SLIGHT DAMAGE AT ALVISO AND BOULDER CREEK.
                                              IV IN THE SAN FRANCISCO BAY REGION.
11/ 9/1932 18-58--0.  37.33 121.92 D          F SAN JOSE.
12/ 4/1932  0-53--0.  36.58 121.92 D          F MONTEREY BAY REGION.
12/12/1932  0-20--0.  36.83 121.42 D          F III AT HOLLISTER.
12/13/1932  6-12--0.  37.67 121.00 D          F IV AT MODESTO.
12/17/1932  1-33- 0.0 37.90 122.00 D          F IV AT COWELL. BRK LOCATION AND TIME.
12/21/1932  6-10- 5.  38.75 118.00    7.2  1 F VI AT NEWMAN.  V AT BIG PINE, COALINGA,
                                              CORCORAN, FRESNO, FREEPORT, GRASS VALLEY, GUSTINE, HERALD, KEELER, LAWS, LODI,
                                              LONE PINE, LOS BANOS, MODESTO, NEVADA CITY, OWENYO, PITTSBURG, SACRAMENTO,
                                              SATTLEY, SANGER, SELMA, STOCKTON, THREE RIVERS, TULARE, WATERFORD, WOODLAND,
                                              YOLO.  EPICENTER IN NEVADA.
 1/ 5/1933  6-10--0.  39.16 118.67 D          F IV AT WABUSKA AND POTTS, NEVADA.
 1/ 5/1933  6-50-20.  38.75 118.00    5.7     F RATTLED WINDOWS IN SONORA.  BERKELEY S-P =
                                              45 SECONDS.  EPICENTER IN NEVADA.
 1/13/1933  6-20--0.  37.08 121.83 D          F IV AT MT. HERMON, OLYMPIA, SAN FRANCISCO,
                                              SOQUEL, AND WRIGHTS.
 1/20/1933 -0--0--0.  39.00 118.00 D          F SIMON, NEVADA.  5 EARTHQUAKES STRONG
                                              ENOUGH TO SHAKE HOUSES BETWEEN JAN. 20-27.
 1/28/1933  6-38--0.  37.00 122.00 D          F SANTA CRUZ.
 2/ 3/1933  1-45--0.  37.42 118.33 D          F IV AT LAWS.
 2/ 3/1933  3-33--0.  37.42 118.33 D          F IV AT BENTON, BIG CREEK, AND LAWS.
 2/13/1933 22-15--0.  37.83 118.58 D          F IV AT BENTON.
 2/26/1933  9-34-32.  36.40 121.30 D          F III AT HOLLISTER, SPRECKLES, AND SALINAS.
 3/ 5/1933  5-27--0.  40.83 124.16 D          F IV AT HUMBOLDT BAY.
 3/10/1933  1-52--0.  39.58 120.42 D          F II AT SATTLEY.
 3/12/1933 22- 0--0.  38.50 116.75 D          F IV AT REESE RIVER.
 3/27/1933 10-45--0.  40.58 122.42 D          F IV AT REDDING, AND AT CANDELARIA, NEVADA.
 3/27/1933 13- 1--0.  37.83 118.58 D          F IV AT BENTON, BIG CREEK, OAKHURST, AND
                                              PAYNES CREEK.
 3/27/1933 13- 6--0.  37.83 118.58 D          F IV AT BENTON, BIG CREEK, OAKHURST, AND
                                              PAYNES CREEK.
 4/ 6/1933 16-12--0.  39.92 120.92 D          F CARIBOU.
 4/12/1933 10- 3- 0.0 36.33 119.15 D          F IV AT PORTERVILLE AND VISALIA.
 4/15/1933 12-20--0.  37.75 122.25 D          F III AT ALAMEDA, OAKLAND, AND PIEDMONT.
 5/ 9/1933 21- 0--0.  38.08 117.25 D          F SILVER PEAK AND TONOPAH, NEVADA.
 5/16/1933 11-45-26.  37.60 122.00 D 4.5   1 F FELT OVER AN AREA OF 8,000 SQUARE MILES OF
                                              WEST-CENTRAL CALIFORNIA.  V AT HAYWARD, MARTINEZ, NILES, OAKLAND, PLEASANTON,
                                              SAN FRANCISCO, SANTA CRUZ, SOUTHAMPTON SHOAL.
 5/25/1933  4- 5--0.  40.58 124.16 D          F FORTUNA, HOLMES FLAT, PEPPERWOOD, SCOTIA,
                                              AND WHITLOW.
 6/ 4/1933  2-43--0.  37.50 122.25 D          F IV AT REDWOOD CITY AND SAN FRANCISCO.
 6/ 4/1933 14-10--0.  38.50 118.16 D          F V AT LUNING, NEVADA.
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6/ 7/1933 14- 0--0.   38.67 117.08 D          F IV AT SMOKEY VALLEY, NEVADA.
6/13/1933  8-30--0.   38.67 117.08 D          F IV AT ROUND MOUNTAIN, NEVADA.
6/12/1933 15- 0--0.   40.33 121.58 D          F IV AT MINERAL.
6/22/1933 12-36-32.   37.70 118.50 D          F IV AT CORCORAN, FRESNO, HUNTINGTON LAKE,
                                                 KINGSBURG, LAWS, PARLIER, PORTERVILLE, SANGER, SEQUOIA NATIONAL PARK, TULARE,
                                                 VISALIA.
6/22/1933 12-41- 5.   37.70 118.50 D          F SAME PLACES AS ABOVE.
6/22/1933 19-54-33.   37.70 118.50 D            NORTH OF BISHOP.
6/23/1933 14- 0--0.   37.33 119.00 D          F IV 20 MILES SOUTH OF MAMMOTH LAKES.
6/23/1933 19-55--0.   39.08 119.33 D          F FELT OVER AN AREA OF 30,000 SQUARE MILES.
                                                 IV AT CAMINO, COURTLAND, FALLEN LEAF, PORTOLA, AND QUINCY, AND CANDELARIA, GOLD
                                                 HILL, IONE, NIXON, RENO, AND RODERICK, NEVADA.
6/25/1933  8- 5--0.   39.00 120.00 D          F IV AT ZEPHYR COVE, NEVADA.
6/25/1933 20-45-27.   39.08 119.33   6.1  1 F FELT OVER AN AREA OF 40,000 SQUARE MILES
                                                 CENTERED IN WESTERN NEVADA.  VII AT WABUSKA, VIRGINIA CITY, AND YERINGTON,
                                                 NEVADA.  VI AT CARSON CITY, DAYTON, FALLON, FORT CHURCHILL, LAHONTON,
                                                 MANHATTAN, MASON, MINDEN, SCHURZ, STEWART, NEVADA, AND AT LODI, MARKLEEVILLE,
                                                 AND TAHOE CITY, CALIFORNIA.  V AT GOLD HILL, HAWTHORNE, HAZEN, RAWHIDE, RENO,
                                                 RODERICK, AND VERDI, NEVADA, AND AT GRASS VALLEY, LOCKFORD, LOG CABIN, MT.
                                                 GREGORY, NEVADA CITY, OMO RANCH, SANTA ROSA, VARNER, AND VOLCANOVILLE,
                                                 CALIFORNIA.
6/25/1933 21-30--0.   39.83 120.33 D          F IV AT BECKWOURTH.
6/29/1933  8-48-42.   37.60 122.00 D            NEAR NILES.
7/ 4/1933 -0--0--0.   40.50 121.50 D          F LASSEN PARK.  8 QUAKES SEVERELY SHOOK
                                                 BUILDINGS.  17 QUAKES SINCE JULY 1.
7/17/1933  0-32--0.   37.00 122.00 D          F V ON NORTH SHORE OF MONTEREY BAY.
7/18/1933  9-10--0.   37.58 122.08 D          F IV AT NEWARK.
7/21/1933  2-55--0.   38.50 118.16 D          F IV AT LUNING, NEVADA.
7/21/1933  3- 7--0.   38.42 118.16 D          F MINA, NEVADA.
8/13/1933 23-41--0.   37.58 122.08 D          F IV AT NEWARK.
8/28/1933 22- 5--0.   38.50 118.16 D          F IV AT LUNING, NEVADA.
8/30/1933 14-30--0.   38.00 118.50 D          F IV AT SCHURZ, NEVADA.
9/24/1933 11-55--0.   40.08 123.92 D          F IV AT RENBOW, BRICELAND, CAPE MENDOCINO
                                                 LIGHT, ETTERSBURG, SCOTIA, SHIVELY, AND UPPER MATTOLE.
10/ 6/1933  4-52--0.   40.16 121.08 D          F IV AT ALMANOR DAM.
10/27/1933 11- 0--0.   38.92 117.58 D          F V AT IONE, NEVADA.
11/23/1933  2-25--0.   40.08 121.16 D          F IV AT CARIBOU.
11/28/1933 14-15--0.   38.67 119.58 D          F CALIFORNIA-NEVADA BORDER.  FELT AT
                                                 COLEVILLE, MARKLEEVILLE, AND TOPAZ, AND MINDEN, NEVADA.
12/ 2/1933 23-19--0.   37.33 121.92 D          F SAN JOSE.
12/11/1933  9-50--0.   36.92 121.75 D          F IV AT WATSONVILLE.
12/11/1933 10- 1--0.   36.83 121.42 D          F IV AT HOLLISTER.
12/13/1933 15-34--0.   37.20 122.00 D          F SAN FRANCISCO BAY REGION.  FELT OVER AN
                                                 AREA OF 5,000 SQUARE MILES.  IV AT CARMEL, GILROY, HOLLISTER, MONTEREY, MORGAN
                                                 HILL, SAN FRANCISCO, SAN JOSE, SANTA CRUZ, SOQUEL, AND WATSONVILLE.
12/15/1933  8-55--0.   38.92 117.58 D          F IV AT BROKEN HILL, NEVADA.
 1/ 2/1934  7- 4--0.   36.08 117.95 C 2.0        SOUTH OF LONE PINE
 1/ 9/1934  7-43--0.   38.50 118.65 D          F IV HAWTHORNE, NEVADA.
 1/ 9/1934 12-48--0.   35.13 120.08 C 3.0        SE OF SAN LUIS OBISPO
 1/ 9/1934 15-44--0.   35.83 117.65 B 3.5        OWENS VALLEY
 1/12/1934  6- 0--0.   38.10 121.40 D          F IV RIO VISTA.
 1/30/1934  3-12--0.   38.30 118.40 D          F FORESHOCK OF 20-16.  III AT BENTON.  ALSO
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							FELT AT HAZEL CREEK AND HAWTHORNE, NEVADA.
1/30/1934	19- 5--0.	38.30	118.42	D		F	FORESHOCK OF 20-16. IV AT POTTS, NEVADA. ALSO FELT AT SMOKY VALLEY, NEVADA.
1/30/1934	19-17--0.	38.30	118.40	D		F	FORESHOCK OF 20-16. HAWTHORNE, NEVADA.
1/30/1934	19-24--0.	38.30	118.40	D		F	STRONG FORESHOCK OF 20-16. VII AT MINA, NEVADA. VI AT HAWTHORNE AND YERINGTON, NEVADA.
1/30/1934	19-30--0.	38.30	118.40	D		F	FORESHOCK OF 20-16. FALLON, IONE, AND HAWTHORNE, NEVADA.
1/30/1934	20-16-31.	38.28	118.36	A	6.3	F	EXCELSIOR MOUNTAINS, NEVADA, NEAR CALIF. BORDER. FELT OVER AN AREA OF 110,000 SQ. MI. VII AT SILVER DYKE, MINA, AND SODAVILLE, NEVADA. IV AT HAWTHORNE, NEVADA. V AT DIXIE VALLEY, FALLON, GOLDFIELD, HAZEN, LUNING, IONE, SCHURZ, AND YERINGTON, NEVADA. (BSSA V.25, P. 161.)
1/30/1934	20-30--0.	38.30	118.40	D		F	AFTERSHOCK OF 20-16. HAWTHORNE, NEVADA AND BRIDGEPORT, CALIFORNIA.
1/30/1934	21- 4--0.	38.30	118.40	D		F	AFTERSHOCK OF 20-16. CALIENTE, FALLON, HAWTHORNE, AND VERDI, NEVADA, AND BENTON, CALIFORNIA.
1/30/1934	23-40--0.	38.30	118.40	D		F	AFTERSHOCK OF 20-16. AUBERRY, BENTON, AND BRIDGEPORT. ALSO FALLON, IONE, DIXIE VALLEY, SCHURZ, AND YERINGTON, NEVADA.
1/31/1934	3-49--0.	38.30	118.40	D		F	AFTERSHOCK OF 20-16. BENTON AND FALLON, NEVADA.
1/31/1934	19-45--0.	37.45	119.05	D		F	IV OR V AT JUNE LAKE.
1/31/1934	20-30--0.	39.00	120.00	D		F	III TAHOE.
2/ 1/1934	11-15--0.	38.50	118.25	D		F	V LUNING, NEVADA.
2/ 3/1934	-0--0--0.	38.50	118.25	D		F	MINA, NEVADA.
2/ 5/1934	3-10--0.	36.58	120.50	D	3.2		NW OF COALINGA
2/ 9/1934	9-20--0.	37.40	118.40	D		F	IV AT BENTON, BISHOP AND DOUGLASFLAT, CALIF., AND AT BROKEN HILLS AND MASON, NEV. ALSO MANTECA, MENDOTA, AND MODESTO.
2/11/1934	21-42- 0.0	38.40	122.75	D		F	IV AT SANTA ROSA.
2/12/1934	12-40--0.	40.50	125.30	D		F	40 MI. W OF PUNTA GORDA. IV AT FORTUNA.
2/13/1934	-0--0--0.	38.42	122.75	D		F	BAY (NEAR SANTA ROSA).
2/14/1934	18-43--0.	38.42	122.75	D		F	V SANTA ROSA.
2/14/1934	18-51--0.	38.42	122.75	D		F	SANTA ROSA.
2/14/1934	19-15--0.	38.42	122.75	D		F	SANTA ROSA.
2/14/1934	22-24--0.	38.42	122.75	D		F	2 MI. SE OF SANTA ROSA. V SANTA ROSA.
2/14/1934	22-34--0.	38.42	122.75	D		F	V SANTA ROSA. IV MONTE RIO AND SEBASTOPOL.
2/15/1934	22-30--0.	38.42	122.75	D		F	IV SEBASTOPOL.
2/16/1934	5-37--0.	38.42	122.75	D		F	V SANTA ROSA. ALSO FELT AT BAY, FULTON, FORESTVILLE, JENNER, KENWOOD, RINCON VALLEY, SEBASTOPOL, AND WINDSOR.
2/16/1934	5-47--0.	38.42	122.75	D		F	SAME PLACES AS ABOVE.
2/16/1934	5-50--0.	38.42	122.75	D		F	SAME PLACES AS ABOVE.
2/16/1934	6-45--0.	38.42	122.75	D		F	SAME PLACES AS ABOVE.
2/16/1934	7-30--0.	38.42	122.75	D		F	SANTA ROSA.
2/16/1934	9-31--0.	38.42	122.75	D		F	SAME PLACES AS 5-37 ABOVE.
2/16/1934	14- 1--0.	38.42	122.75	D		F	SAME PLACES AS 5-37 ABOVE.
2/16/1934	15- 0--0.	38.42	122.75	D		F	SANTA ROSA.
2/16/1934	15-58--0.	38.42	122.75	D		F	STRONGEST OF SERIES. FELT SAME PLACES.
2/18/1934	9- 3--0.	38.42	122.75	D		F	SANTA ROSA.
2/19/1934	11-19--0.	36.95	121.70	D		F	4 MI. NE OF WATSONVILLE. IV WATSONVILLE.
2/24/1934	4-39--0.	37.00	121.70	D		F	3 MILES W OF GILROY HOT SPRINGS. IV AT WATSONVILLE.
3/ 1/1934	13- 7--0.	36.13	117.97	B	2.5		S OF LONE PINE

3/12/1934	16-10--0.	38.42	122.75	D		F SANTA ROSA.
3/13/1934	16-11--0.	38.00	118.00	D	4.5	F III AT HAWTHORNE, NEVADA.
3/13/1934	16-20--0.	38.00	118.00	D	5.0	F HAWTHORNE, NEVADA.
3/14/1934	1-15--0.	37.15	121.70	D		F 10 MI. N OF WATSONVILLE. III MORGAN HILL.
3/19/1934	10-41--0.	38.00	118.00	D	4.5	F IV AT LUNING, NEVADA.
3/20/1934	11-49--0.	36.65	121.35	D		F 14 MI. E OF SPRECKELS. III HOLLISTER AND SPRECKELS.
3/23/1934	22-49--0.	38.00	118.00	D	4.5	NEVADA.
3/27/1934	1-36--0.	36.60	121.50	D		F 6 MI. SE SPRECKELS. FELT AT SPRECKELS.
4/ 2/1934	8- 5--0.	38.00	118.00	D	4.5	NEVADA.
4/18/1934	2-48--0.	38.00	118.00	D	4.0	NEVADA.
4/20/1934	14- 7--0.	40.85	124.20	D		F 18 MI. FROM FERNDALE. IV AT ARCATA AND ORICK. III AT FERNDALE.
4/21/1934	23-18--0.	39.00	117.00	D	4.0	NEVADA.
4/21/1934	23-22--0.	39.00	117.00	D	4.5	NEVADA.
4/23/1934	16- 8--0.	37.00	122.00	D	4.0	F IV AT SANTA CRUZ AND WATSONVILLE. ALSO AROMAS, HOLLISTER, SALINAS, SOQUEL, SPRECKELS, AND WRIGHTS.
4/23/1934	17-35--0.	37.00	122.00	D		F AROMAS, GILROY, SALINAS, SPRECKELS, AND WATSONVILLE.
4/23/1934	21-20--0.	36.75	121.40	D	3.5	F ABOUT 5 MI S OF HOLLISTER. V-VI AROMAS. IV HOLLISTER. III SALINAS, SPRECKELS, AND WATSONVILLE.
4/26/1934	12-52--0.	37.17	118.28	B	3.0	S OF BISHOP.
4/28/1934	17-20--0.	37.25	121.82	D		F 4 MI. W OF COYOTE. IV SAN JOSE, SANTA CLARA AND WILLOW GLEN. III BERKELEY AND OAKLAND.
5/ 6/1934	20-14--0.	35.83	120.75	B	3.5	N OF PASO ROBES.
6/ 1/1934	5-55--0.	38.00	118.00	D	4.0	NEVADA.
6/ 5/1934	9-51--0.	35.80	120.33	D		F COALINGA AND KETTLEMAN HILLS. ALSO FELT MONTEREY AND SANTA CRUZ.
6/ 5/1934	11-30--0.	35.80	120.33	D		F SAN MIGUEL AND SHANDON.
6/ 5/1934	11-47--0.	35.80	120.33	B	3.0	CHOLAME VALLEY.
6/ 5/1934	13-46--0.	35.80	120.33	C	3.0	CHOLAME VALLEY.
6/ 5/1934	21-30--0.	35.80	120.33	D		F SAN MIGUEL.
6/ 5/1934	21-48--0.	35.80	120.33	B	5.0	F V AT ADELAIDA, PARKFIELD, AND PRIEST. IV AT ATASCADERO, AVENAL, BIG SUR, BRYSON, CARMEL, HANFORD, KING CITY, LEMOORE, LONOAK, PARAISO, SAN MIGUEL, SANTA CRUZ, SHANDON, AND TEMPLETON. III AT APTOS, BOULDER CREEK, CAMBRIA, CHUALAR, COALINGA, GONZALES, HOLLISTER, MONTEREY, MORRO BAY, PASO ROBLES, SALINAS, SAN FRANCISCO, SAN JOAQUIN VALLEY, SAN LUIS OBISPO, SOLEDAD, SPRECKELS, ETC. NOT FELT AT ANTIOCH, BAKERSFIELD, FRESNO, GILROY, LIVERMORE, LOS GATOS, MARICOPA, MERCED, MODESTO, MORGAN HILL, REDWOOD CITY, SAN JOSE, SANTA MARIA, TULARE, OR WATSONVILLE.
6/ 5/1934	22-15--0.	40.50	122.00	D		F 22 MI. NW OF MINERAL. IV JACKSONVILLE.
6/ 5/1934	22-52--0.	35.80	120.33	C	4.0	F VI AT ADELAIDA. IV AT ATASCADERO.
6/ 5/1934	23-30--0.	35.80	120.33	D		F V LEMOORE. ALSO FELT CASTROVILLE.
6/ 6/1934	0-55--0.	35.80	120.33	C	3.0	CHOLAME VALLEY.
6/ 6/1934	16-40--0.	35.80	120.33	C	3.5	CHOLAME VALLEY.
6/ 6/1934	22-14--0.	40.00	121.00	D	4.5	F IV AT CARIBOU, CHESTER, CRESCENT HILLS, JANESVILLE, AND STIRLING CITY.
6/ 6/1934	22-40--0.	35.80	120.33	C	3.5	F ADELAIDA, GRAEAGLE, AND PAYNES CREEK.
6/ 7/1934	8-53--0.	37.17	122.58	D		F IV AND NUEVO LIGHT.
6/ 7/1934	22-30--0.	35.80	120.33	D		F STONE CANYON.
6/ 8/1934	4-15--0.	35.80	120.33	D		F IV GONZALES AND MCKITTRICK.
6/ 8/1934	4-30--0.	35.80	120.33	B	5.0	F VI TO VII AT CHOLAME RANCH, PARKFIELD,

AND STONE CANYON. DURATION 30 SECONDS. DAMAGE SLIGHT. V AT ATASCADERO, COALINGA, HOLLISTER, KING CITY, LEMOORE, AND SAN MIGUEL. IV AT ANTELOPE, BIG SUR, CAMBRIA, CASTROVILLE, DELANO, MONTEREY, PASO ROBLES, SAN LUIS OBISPO, SANTA BARBARA, SANTA MARGARITA, SANTA MARIA, SOLEDAD, TAFT, VENTURA, VISALIA, ETC. III OR LESS AT ARVIN, BAKERSFIELD, DELANO, FRESNO, KERNVILLE, LOMPOC, LOS ANGELES, MENDOTA, PORTERVILLE, SALINAS, SAN BENITO, SANTA ANA, SANTA BARBARA, TULARE, WATSONVILLE, ETC. NOT FELT AT BIG BASIN, CAJON, COYOTE, GILROY, HUNTINGTON BEACH, INDEPENDENCE, INYOKERN, LANCASTER, MERCED, POMONA, OR SAN JOSE.

6/ 8/1934	4-37--0.	35.60	121.30	D		F	IV PIEDRAS BLANCAS, SAN LUIS OBISPO AND SANTA CRUZ. ALSO FELT BRYSON AND LOS ALAMOS.
6/ 8/1934	4-45--0.	35.80	120.33	D		F	ATASCADERO, COALINGA, LOCKWWOD, PASO ROBLES, PORT SAN LUIS, PRIEST, SAN MIGUEL, WESTHAVEN.
6/ 8/1934	4-47--0.	35.80	120.33	B	6.0	F	FELT WITHIN A RADIUS OF 250 KM FROM THE EPICENTER NEAR THE SOUTHEASTERN ANGLE OF MONTEREY COUNTY. VII TO VIII AT PARKFIELD. VI AT COALINGA, KETTLEMAN CITY, LEMOORE, AND STONE CANYON. V AT ATASCADERO, DUDLEY, HOLLISTER, KING CITY, OILFIELDS, SAN MIGUEL, SEASIDE, SHALE PUMP STATION, AND SHANDON. IV AT ANTELOPE, AVILA, CONOGA PARK, HANFORD, LOS ALAMOS, MARICOPA, MORRO BAY, NIPOMO, PASO ROBLES, PRIEST, SAN LUIS OBISPO, SANTA CRUZ, SANTA MARIA, SOLEDAD, VISALIA, ETC. III OR LESS AT APTOS, FRESNO, KERNVILLE, LONE PINE, LOS BANOS, MENDOTA, MONTEREY, OAKLAND HARBOR, SALINAS, SAN BENITO, SANTA ANA, TEHACHAPI, TULARE, ETC.
6/ 8/1934	5- 0--0.	35.60	121.30	D		F	PIEDRAS BLANCAS LIGHT. ALSO BRYSON, KERNVILLE, LA PANZA, LEMOORE, PARKFIELD, SANDBERG, SAN FERNANDO.
6/ 8/1934	5-20--0.	35.80	120.33	D		F	III ATASCADERO.
6/ 8/1934	5-23--0.	35.80	120.33	C	3.5	F	SAN MIGUEL AND ATASCADERO.
6/ 8/1934	5-36--0.	35.80	120.33	C	3.0		CHOLAME VALLEY.
6/ 8/1934	5-42--0.	35.80	120.33	B	4.5	F	ATASCADERO, BIG SUR, COALINGA, KING CITY, PASO ROBLES, AND WESTHAVEN.
6/ 8/1934	5-50--0.	35.80	120.33	D		F	IV ATASCADERO. ALSO FELT COALINGA AND SAN LUIS OBISPO.
6/ 8/1934	9-30--0.	35.80	120.33	B	4.0	F	ATASCADERO AND PARKFIELD.
6/ 8/1934	15-30--0.	35.80	120.33	C	3.5		CHOLAME VALLEY.
6/ 8/1934	16-30--0.	35.80	120.33	D		F	PARKFIELD.
6/ 8/1934	23-23--0.	35.80	120.33	B	4.0	F	NEAR PARKFIELD.
6/10/1934	6-47--0.	35.80	120.33	C	3.0		CHOLAME VALLEY.
6/10/1934	8- 1--0.	35.80	120.33	B	4.5	F	NEAR PARKFIELD. IV AT SAN MIGUEL.
6/10/1934	20- 2--0.	35.80	120.33	D		F	IV SAN MIGUEL. ALSO PARKFIELD AND WOODY.
6/11/1934	3-25--0.	35.80	120.33	C	3.0		CHOLAME VALLEY.
6/12/1934	10-47--0.	35.80	120.33	C	3.5		CHOLAME VALLEY.
6/12/1934	20-27--0.	38.00	118.00	D	4.0		NEVADA.
6/14/1934	14-55--0.	35.80	120.33	C	4.0	F	IV AT ATASCADERO. ALSO FELT AT SAN MIGUEL AND TEMPLETON.
6/14/1934	15-54--0.	35.80	120.33	C	4.0	F	III AT ATASCADERO AND SAN MIGUEL.
6/14/1934	19-26--0.	35.80	120.33	C	4.5	F	ATASCADERO AND TEMPLETON.
6/14/1934	22- 2--0.	35.80	120.33	C	3.5	F	ATASCADERO.
6/15/1934	4-48--0.	35.80	120.33	C	3.0		CHOLAME VALLEY.
6/16/1934	23-53--0.	36.50	121.00	D	4.0	F	IV AT HOLLISTER AND MONTEREY. III AT GONZALES, PARKFIELD, AND SALINAS.
6/20/1934	12- 0--0.	38.30	123.00	D		F	IV DILLON BEACH. ALSO PETALUMA.
6/20/1934	13-40--0.	37.50	122.50	D		F	6 MI. W OF SAN MATEO. IV AT ALAMEDA, ALCATRAZ, BELMONT, BRISBANE, BURLINGAME, DALY CITY, EL GRANADA, HALF MOON BAY,

							LOMITA PARK, MONTARA, MONTEREY, REDWOOD CITY, SAN BRUNO, SAN CARLOS, SAN FRANCISCO, SAN LORENZO, SAN MATEO. IV BERKELEY. ALSO MARTINEZ, OLEMA, RICHMOND.
6/20/1934	14-30--0.	37.80	122.30	D		F	IV BERKELEY. ALSO MARTINEZ, OLEMA, AND RICHMOND.
7/ 1/1934	6- 3--0.	35.82	117.65	C	2.5		S OF LONE PINE.
7/ 2/1934	18-44--0.	35.80	120.33	B	3.0		CHOLAME VALLEY.
7/ 3/1934	19-46--0.	36.20	117.72	B	2.5		S OF LONE PINE.
7/ 6/1934	22-49--0.	41.70	124.60	D		F	OFF COAST W OF EUREKA. V AT BEATRICE, CRESCENT CITY, AND EUREKA. IV AT ARCATA, BRIDGEVILLE, CARLOTTA, FORTUNA, SCOTIA, AND PETROLIA, AND AT GOLD BEACH AND NORTH BEND, OREGON.
7/13/1934	13-56- 0.0	39.83	120.50	D		F	NEAR PORTOLA. IV NEVADA CITY, SATTLEY.
8/ 4/1934	0-13--0.	35.80	120.33	B	3.0		CHOLAME VALLEY.
8/18/1934	16-51--0.	36.40	118.00	C	3.0		S OF LONE PINE.
8/19/1934	1- 9--0.	36.40	118.00	B	3.5		S OF LONE PINE.
8/19/1934	2-54--0.	36.40	118.00	B	3.5	F	KEELER.
8/19/1934	3-30--0.	36.40	118.00	B	3.5	F	KEELER.
8/20/1934	11-53--0.	36.40	118.00	C	3.0		S OF LONE PINE.
8/21/1934	3-37--0.	36.08	120.58	D		F	IV STONE CANYON.
8/23/1934	10-52--0.	36.40	118.00	C	3.0		S OF LONE PINE.
8/23/1934	17-43--0.	36.40	118.00	B	3.0		S OF LONE PINE.
8/25/1934	13- 9--0.	38.83	119.00	D	4.0		NEVADA.
9/ 1/1934	16-15--0.	37.75	122.50	D		F	NEAR MUSSEL ROCK. FELT IN SAN FRANCISCO.
9/ 6/1934	6-57--0.	39.00	118.00	D	4.0		NEVADA.
9/ 6/1934	23-24--0.	36.00	120.55	C	3.0		CHOLAME HILLS.
9/12/1934	11-22--0.	36.13	118.80	B	3.0	F	IV PORTERVILLE.
9/13/1934	18-40--0.	39.00	118.00	D	4.0		NEVADA.
9/16/1934	14-38--0.	35.83	120.33	C	3.5		PARKFIELD.
9/20/1934	11-10--0.	37.42	118.33	C	3.0		BISHOP.
9/24/1934	3-20--0.	39.00	117.00	D	4.0		NEVADA.
9/25/1934	7-14--0.	39.00	117.00	D	4.0		NEVADA.
9/27/1934	7-12--0.	39.90	120.90	D		F	KEDDIE, QUINCY, SPRING GARDEN.
9/30/1934	8-37--0.	35.83	117.65	C	2.0		S OF LONE PINE.
10/ 2/1934	20-20--0.	37.60	122.80	D	4.0	F	V AT COLMA, SAN FRANCISCO, AND SAUSALITO. FELT OVER AN AREA OF 2100 SQ. MI.
10/ 2/1934	20-30--0.	37.60	122.80	D	4.0	F	V AT COLMA, SAN FRANCISCO, AND SAUSALITO. FELT OVER AN AREA OF 2100 SQ. MI.
10/ 3/1934	6-17--0.	37.60	122.80	D		F	BENECIA, MILE ROCK, OAKLAND, AND S.F.
10/ 6/1934	2-17--0.	37.85	122.35	D		F	3 MI. NW OF BERKELEY. IV EL CERRITO.
10/ 8/1934	8-40--0.	37.60	122.80	D		F	IV SAN FRANCISCO.
10/13/1934	3-57--0.	39.50	119.80	D		F	IV RENO AND SPARKS, NEVADA.
10/16/1934	19-33--0.	37.60	122.80	D		F	COLMA.
10/16/1934	23-12--0.	39.00	118.00	D	4.0		NEVADA.
10/19/1934	15-39--0.	35.80	120.33	C	3.0		PARKFIELD.
10/25/1934	3-20--0.	37.60	122.80	D		F	V SAN FRANCISCO.
11/ 6/1934	21-15--0.	37.60	122.80	D		F	SAN FRANCISCO.
11/16/1934	5-37--0.	39.30	125.10	D		F	70 MI. W OF CAPE MENDOCINO. IV EUREKA.
11/17/1934	17-42--0.	40.50	124.08	D		F	V SHIVELY. IV ALDERPOINT, PETROLIA, AND SCOTIA.
11/18/1934	12-38--0.	40.58	124.08	D		F	IV FORTUNA AND UPPER MATTOLE.
11/30/1934	19-31--0.	38.00	118.00	D	4.0		NEVADA.
12/ 1/1934	13- 5--0.	36.00	121.50	D		F	15 MILES S OF PARAISO. V AT PIEDRAS BLANCAS LIGHT. IV AT PARAISO.

12/ 2/1934	16- 7--0.	35.97	120.58	C	4.0	F	SAN MIGUEL.
12/ 2/1934	23-19--0.	37.40	121.70	D		F	5 MI. NW OF MT. HAMILTON. FELT SAN JOSE AND SANTA CLARA.
12/ 3/1934	1-54--0.	35.95	121.50	C	4.5	F	IV AT BRYSON, KING CITY, AND PARAISO. ALSO FELT AT PARKFIELD, PASO ROBLES, SAN LUCAS, AND SAN MIGUEL.
12/ 4/1934	6-17--0.	38.00	118.00	D	4.0		NEVADA.
12/11/1934	6-19--0.	40.58	124.08	D		F	IV UPPER MATTOLE.
12/12/1934	10-42--0.	35.83	117.65	B	2.5		S OF LONE PINE.
12/13/1934	2-30--0.	37.60	122.80	D		F	NEAR COLMA. IV SAN FRANCISCO.
12/15/1934	17- 0--0.	40.60	124.20	D		F	6 MI. FROM FERNDALE. V FORTUNA. IV SCOTIA, SHIVELY, AND UPPER MATTOLE.
12/24/1934	16-26--0.	35.93	120.48	B	5.0	F	IV AT LOS ALAMOS AND SHANDON. ALSO FELT AT KING CITY AND TEMPLETON.
12/29/1934	11-47--0.	37.33	118.50	B	3.5		BISHOP.
12/30/1934	13-55- 0.0	37.20	122.00	D		F	NEAR SANTA CLARA. FELT OVER AREA OF 3,000 SQUARE MILES. V AT ALVISO, LAUREL, LOS GATOS, SAN JOSE, SANTA CRUZ, SUNNYVALE.
12/31/1934	5-51--0.	38.00	118.00	D	4.0	F	IV AT LOS GATOS. IV AT PIGEON POINT, SAN FRANCISCO, AND PALO ALTO.
1/ 2/1935	12-29--0.	36.15	117.95	B	2.5		S OF LONE PINE.
1/ 2/1935	22-40-58.	40.25	125.25		5.8	F	OFF CAPE MENDOCINO. V AT ALDERPOINT, FORT BRAGG, HOLMES, KORBEL, ORLEANS, SHELLY. IV AT ALBION, ARCATA, BAYSIDE, BENBOW, ELK RIVER, EUREKA, FERNDALE, HONEYDEW, RIO DELL, ROHNERVILLE, SCOTIA, SOUTH FORK, UPPER MATTOLE, WADDINGTON, WEOTT, AND WHITLOW.
1/ 3/1935	5-45--0.	40.80	124.20	D		F	HUMBOLDT.
1/ 3/1935	5-45--0.	37.25	122.00	D		F	LOS GATOS.
1/ 3/1935	17-36- 0.0	37.20	122.00	D		F	6 MI. NW OF SANTA CLARA. AFTERSHOCK OF 12/30/34, 13-55-00. V SANTA CRUZ AND SUNNYVALE.
1/ 6/1935	4- 4--0.	35.93	120.48	C	4.0	F	IV AT PARKFIELD. ALSO FELT AT SHANDON.
1/ 6/1935	4-25--0.	35.90	120.45	D		F	IV PARKFIELD.
1/ 6/1935	4-40--0.	35.93	120.48	C	4.0	F	IV AT PARKFIELD. III AT SHANDON.
1/ 8/1935	2-35--0.	36.95	121.75	D		F	3 MI. NE OF WATSONVILLE. IV HOLLISTER.
1/ 9/1935	15-50--0.	36.85	121.60	D		F	8 MI. S OF GILROY.
1/14/1935	22-45--0.	36.67	116.50	C	3.0		E OF LONE PINE.
1/18/1935	9-43--0.	37.40	122.35	D		F	4 MI. E OF COLMA. III SAN FRANCISCO.
1/21/1935	0- 9--0.	38.00	118.00	D	4.0		NEVADA.
2/ 3/1935	15-35--0.	40.85	124.15	D		F	EUREKA, FIELDS LANDING, TABLE BLUFF STA.
2/ 8/1935	4-22--0.	35.83	118.00	B	4.0	F	V AT ONYX. IV AT BROWN, KERNVILLE, AND OLANCHA. III AT INYOKERN AND SPRINGVILLE.
2/18/1935	4- 2--0.	35.93	120.48	C	3.5		PARKFIELD.
2/19/1935	14-17--0.	35.93	120.48	D	3.0		PARKFIELD.
2/27/1935	7-15--0.	36.67	117.17	B	3.0		E OF LONE PINE.
2/28/1935	19- 6--0.	35.80	120.33	C	3.0		PARKFIELD.
3/ 3/1935	5-49--0.	38.00	118.00	D	3.0		SE OF HAWTHORNE, NEV.
3/ 3/1935	10-19--0.	40.25	124.10	D		F	V UPPER MATTOLE. IV BRIDGEVILLE, SHIVELY, SOUTH FORK AND WHITLOW.
3/ 3/1935	11-26--0.	36.42	121.75	C	3.0		MONTEREY.
3/ 6/1935	0-55--0.	36.15	117.95	B	2.5		S OF LONE PINE.
3/ 6/1935	4-52--0.	37.40	119.80	D		F	NEAR HORITOS. IV AHWAHNEE, CHOWCHILLA. III EL PORTAL, LE GRAND AND RAYMOND.
3/23/1935	8-26--0.	38.95	123.10	D		F	IV HOPLAND.
3/25/1935	10-15--0.	37.08	118.35	B	3.0		S OF BISHOP.
3/30/1935	12-40--0.	35.88	118.28	B	3.0		S OF LONE PINE.

4/ 5/1935	10-13--0.	35.93	120.48	C	3.5	PARKFIELD.
4/16/1935	3-42--0.	39.90	120.90	D		F IV CARIBOU.
4/17/1935	4-39--0.	36.65	117.22	C	2.5	E OF LONE PINE.
4/17/1935	4-41--0.	36.65	117.22	B	3.0	E OF LONE PINE.
4/17/1935	5- 4--0.	36.65	117.22	B	3.5	E OF LONE PINE.
4/18/1935	6- 7--0.	37.90	118.53	C	4.0	NORTH OF BENTON.
4/24/1935	17-26--0.	36.67	117.25	C	3.5	E OF LONE PINE.
4/24/1935	19-23--0.	36.67	117.25	C	3.0	E OF LONE PINE.
4/26/1935	15-33--0.	40.60	124.25	D		F III FERNDALE.
5/ 8/1935	14-29--0.	36.68	116.97	C	3.5	E OF LONE PINE.
5/15/1935	16-50--0.	37.40	122.15	D		F NEAR PALO ALTO. III MOUNTAIN VIEW.
5/16/1935	3-25--0.	37.38	118.92	B	4.5	F IV AT BENTON. III AT BIG CREEK, AND HUNTINGTON LAKE.
5/16/1935	10-12--0.	37.38	118.92	B	3.5	W OF BISHOP.
5/17/1935	3-22--0.	37.15	119.25	D		F BIG CREEK, HUNTINGTON LAKE AND FLORENCE LAKE.
5/27/1935	16- 8--0.	35.37	120.97	C	3.0	F III AT TEMPLETON.
5/31/1935	17-22--0.	37.08	118.75	C	3.0	SW OF BISHOP.
6/ 3/1935	17- 8--0.	41.00	124.00	D	5.0	WEST OF EUREKA.
6/ 6/1935	19-33--0.	38.00	118.00	D	4.0	NEVADA.
6/14/1935	18-45--0.	36.75	121.70	D		F SALINAS AND WATSONVILLE.
6/18/1935	4-15- 0.0	37.00	121.40	D	4.0	F IV AT HOLLISTER.
6/19/1935	9-55--0.	37.25	118.50	C	4.5	F FELT OVER AN AREA OF 13,000 SQUARE MILES OF CENTRAL CALIFORNIA. V AT HUNTINGTON LAKE, LAWS, AND TERRA BELLA. IV AT BISHOP, DELPIEDRA, FRIANT, HANFORD, LAKESHORE, MIRAMONTE, MOUNTAIN VIEW, ORANGE COVE, SANGER, SHAVER LAKE, TULARE, AND BIG PINE.
6/19/1935	10- 7--0.	37.25	118.50	C	4.0	F AFTERSHOCK OF 9-55-0. IV AT BISHOP AND BIG PINE.
6/19/1935	13- 0--0.	37.25	118.40	D		F BIG PINE AND BISHOP.
6/19/1935	13-21--0.	37.25	118.37	C	3.0	F IV LAWS.
6/21/1935	17-17--0.	40.50	121.50	D		F PRECEDING THIS AND QUAKE AT 17-40-0, LASSEN PEAK EMITTED PUFF OF STEAM.
6/21/1935	17-40--0.	40.50	121.50	D		F SEE COMMENT FOR 17-17-0.
6/27/1935	11-44--0.	37.80	122.20	D		F BERKELEY AND OAKLAND.
6/30/1935	15-25--0.	37.60	122.00	D		F 2 MI. NE OF NILES. IV EAST OAKLAND, NILES.
6/30/1935	23-28--0.	36.00	121.00	D	4.0	F SE OF SALINAS. III AT HOLLISTER.
7/ 3/1935	15-20--0.	37.80	122.20	D		F WASHINGTON TOWNSHIP, BERKELEY, OAKLAND.
7/12/1935	0- 4--0.	40.25	124.00	D		F IV BRICELAND, FOREST GLEN, SCOTIA, WHITLOW
7/19/1935	1-22--0.	40.00	121.00	D		F VI KEDDIE, PAXTON. V QUINCY, TAYLORSVILLE.
7/25/1935	4-16--0.	35.80	120.33	C	3.0	F V AT PARKFIELD.
7/26/1935	23- 7- 0.0	36.80	121.30	D		F 5 MI. E OF PAICINES. FELT AT MULBERRY.
7/27/1935	2-45--0.	37.17	118.32	B	3.5	BISHOP.
7/28/1935	6- 0--0.	35.70	121.12	B	4.0	F SAN SIMEON.
8/ 9/1935	17-14--0.	36.17	120.98	C	3.5	F PRIEST VALLEY.
9/10/1935	23-55- 0.0	37.85	122.25	D		F HAYWARD FAULT. V AT BERKELEY.
10/18/1935	9-24--0.	35.80	120.70	D	3.5	F IV AT PARKFIELD. AFTERSHOCK OF 6/7/1934.
10/19/1935	10-47--0.	35.80	118.52	C	3.0	F IV AT BAKERSFIELD. III OR IV AT KERNVILLE.
10/22/1935	18-37--0.	35.93	120.48	C	4.0	F PARKFIELD.
10/25/1935	19-43--0.	36.40	121.55	D		F 13 MI. W OF SOLEDAD. IV SAN BENITO.
10/25/1935	20-44- 0.0	37.00	121.60	D		F FORESHOCK OF 20-56
10/25/1935	20-56--0.	36.90	121.75	D	4.0	F SAN ANDREAS FAULT NEAR WATSONVILLE. FELT OVER AN AREA OF 3,300 SQUARE MILES. IV AT CASTROVILLE, HAYWARD, HOLLISTER, AND

							WATSONVILLE.
10/26/1935	10-46-	0.0	36.85	121.40	D		F AFTERSHOCK OF 20-56-0. HOLLISTER.
10/28/1935	2-50--	0.	40.85	124.15	D		F IV EUREKA. III FIELDS LANDING.
11/26/1935	21- 1--	0.	37.42	118.83	C	3.5	W OF BISHOP.
1/ 7/1936	6-30--	0.	37.75	122.50	D		F IV SAN FRANCISCO.
1/ 7/1936	6-58--	0.	37.75	122.50	D		F LAKE MERCED, SAN FRANCISCO.
1/11/1936	6-49--	0.	38.00	118.00	D	4.0	NEVADA.
1/14/1936	5-30--	0.	38.00	117.00	D	4.0	NEVADA.
1/24/1936	17-49-	1.0	37.80	122.15	C		F 4 MI. SW OF UNIV. OF CALIF. CAMPUS, BERK. III AT ALAMEDA, BERKELEY, HAYWARD, LAFAYETTE, MARTINEZ, ORINDA, ROSS, RICHMOND, SAN FRANCISCO, SAN RAFAEL, AND SUISUN BAY BRIDGE.
1/30/1936	18-32--	0.	38.00	118.00	D	4.5	NEVADA.
2/ 9/1936	3- 6--	0.	40.20	124.00	D		F III OR IV ETTERSBURG.
2/27/1936	0-40--	0.	41.00	119.00	D	4.5	NEVADA.
3/ 6/1936	3-45-	0.0	36.50	121.25	D	3.0	STONE CANYON.
3/11/1936	13-56--	0.	37.30	121.75	D		F 4 MI. E OF COYOTE. FELT OVER AREA OF 1,600 SQUARE MILES. V COYOTE DAM. IV GILROY, MT. HAMILTON, SAN MARTIN.
3/17/1936	1-55-	0.0	36.60	121.20	C	4.0	F IV AT CHUALAR, HOLLISTER AND TRES PINOS.
3/18/1936	9- 7--	0.	35.93	120.48	C	2.5	PARKFIELD.
3/26/1936	22-43--	0.	38.00	118.00	D	4.0	NEVADA.
3/30/1936	8- 5--	0.	37.40	121.90	D		F SAN JOSE AND E SAN JOSE FOOTHILLS.
4/ 3/1936	17-17--	0.	36.90	121.50	D		F 9 MI. NW OF HOLLISTER.
4/ 3/1936	23-11--	0.	36.90	121.45	D		F 7 MI. NW OF HOLLISTER.
4/ 7/1936	1-32--	0.	35.80	118.52	C	3.0	SW OF LONE PINE.
4/12/1936	12-24--	0.	35.83	118.00	C	2.5	S OF LONE PINE.
4/19/1936	20-19--	0.	38.00	118.00	D	4.0	NEVADA.
4/21/1936	4-34--	0.	36.15	117.95	B	3.5	S OF LONE PINE.
4/24/1936	19- 0--	0.	36.15	117.95	B	4.0	NEAR HAIWEE.
4/25/1936	18- 4--	0.	36.15	117.95	B	2.5	NEAR HAIWEE.
4/26/1936	16-25--	0.	36.15	117.95	B	3.5	F NEAR HAIWEE. IV AT OLANCHA.
5/ 9/1936	7-44--	0.	40.50	121.55	D		F LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	8-12--	0.	40.50	121.55	D		F LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	9-40--	0.	40.35	121.60	D		F MINERAL. LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	11- 4--	0.	40.35	121.60	D		F MINERAL. LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	12-30--	0.	40.35	121.60	D		F MINERAL. LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	18-41--	0.	40.35	121.60	D		F MINERAL. LASSEN VOLCANIC NATIONAL PARK.
5/ 9/1936	20-21--	0.	40.50	121.65	D		F LASSEN VOL. NAT'L. PARK. V AT MANZANITA LAKE. ONE OF STRONGEST OF 18 QUAKES ON MAY 8 AND 9.
5/10/1936	2-18--	0.	40.50	121.65	D		F MANZANITA LAKE. LASSEN VOL. NAT'L. PARK.
5/10/1936	7-44--	0.	39.50	119.80	D		F RENO, NEVADA.
5/10/1936	17-40--	0.	37.50	118.53	C	5.0	F NORTH OF BISHOP. FELT OVER AN AREA OF 6,000 SQUARE MILES. V AT BISHOP. IV AT BENTON, BIGPINE, BURGYN'S ROAD CAMP, DEEP SPRINGS, DELPIEDRA, INDEPENDENCE, JUNE LAKE, KEELER, LITTLE ROUND VALLEY, MCGEE CREEK, MAMMOTH LAKES, MIRAMONTE, MOCALNO, MONO LODGE, ONYX, OWENS RIVER GORGE, PORTERVILLE, AND STRATFORD.
5/10/1936	19-36--	0.	36.92	117.50	C	3.5	NE OF LONE PINE.
5/10/1936	20-19--	0.	39.50	119.80	D		F RENO, NEVADA.
5/14/1936	11-15--	0.	40.50	121.65	D		F MANZANITA LAKE. LASSEN VOL. NAT'L. PARK. ONE OF 125 QUAKES IN AREA SINCE MAY 4.
5/15/1936	4-34--	0.	37.50	118.53	C	4.0	F V AT ADAMS PLANT. IV AT BENTON, YOSEMITE, AND CRESTVIEW.
5/15/1936	7- 4--	0.	40.50	121.65	D		F V MANZANITA LAKE.

5/20/1936	17-22--0.	35.93	120.48	C	3.0	PARKFIELD.
5/23/1936	4-41--0.	36.17	120.92	C	4.0	F IV AT KING CITY.
5/27/1936	7-18--0.	40.35	121.60	D		F IV MINERAL.
5/27/1936	19-55--0.	36.50	121.17	C	4.5	SAN BENITO COUNTY.
5/29/1936	6-56--0.	36.70	120.95	D		F 4 MI. N OF PANOCHE. III OR IV KING CITY.
5/30/1936	10- 8--0.	37.10	121.70	D		F 4 MI. NW OF MORGAN HILL. IV MORGAN HILL AND SAN MARTIN.
6/ 2/1936	14-30--0.	40.50	121.65	D		F V MANZANITA LAKE.
6/ 3/1936	9-15- 0.0	40.16	126.45	D	5.8	F OFF CAPE MENDOCINO. V AT FERNDALE, PUNTA GORDA, UPPER MATTOLE, AND WEOTT. IV AT ALDERPOINT, ALTON, ARCATA, BAYSIDE, BEATRICE, BENBOW, BRICELAND, BRIDGEVILLE, CAPETOWN, EUREKA, FERNBRIDGE, FIELDS LANDING, FORT BRAGG, FORTUNA, GARBERVILLE, HARRIS, HOLMES, KORBEL, LOLETA, RIO DELL, ROHNERVILLE, SOMOA, SCOTIA, SOUTH FORK, TRINIDAD, WADDINGTON, AND WESTPORT.
6/12/1936	6-26--0.	38.40	122.75	D		F SANTA ROSA.
6/14/1936	22-26--0.	40.50	121.55	D		F LASSEN VOL. NAT'L. PARK.
6/24/1936	12-23--0.	35.12	120.08	C	3.0	F FSAN LUIS OBISPO CO. IV AT LOS ALAMOS.
6/29/1936	12-45--0.	40.50	121.65	D		F IV OR V MANZANITA LAKE.
6/29/1936	15- 5--0.	40.50	121.65	D		F IV OR V MANZANITA LAKE.
6/29/1936	19-52--0.	40.50	121.65	D		F IV OR V MANZANITA LAKE.
6/30/1936	6-30--0.	40.35	121.60	D		F IV OR V MINERAL, MT. HARKNESS, SUSANVILLE. OVER 100 SMALL QUAKES ON JUNE 30 THIS AREA.
6/30/1936	10-27--0.	40.50	121.65	D		F V MANZANITA LAKE. IV CARIBOU.
6/30/1936	12-47--0.	40.50	121.65	D		F IV MANZANITA LAKE, MINERAL, PRATTVILLE, AND CARIBOU.
6/30/1936	20-36--0.	40.50	121.65	D		F V MANZANITA LAKE.
6/30/1936	23-50--0.	40.50	121.65	D		F IV MANZANITA LAKE, MINERAL.
7/ 1/1936	11-50--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 1/1936	12-43--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 1/1936	15-50--0.	40.50	121.65	D		F V MANZANITA LAKE.
7/ 2/1936	1-40--0.	38.00	118.00	D	4.0	NEVADA.
7/ 2/1936	7-20--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 2/1936	16-20--0.	39.20	117.50	D	5.0	F NEVADA.
7/ 2/1936	17-38--0.	40.35	121.60	D		F V TO VI MINERAL. 7 QUAKES OF INTENSITY V AT MT. HARKNESS THIS DATE.
7/ 6/1936	10-16--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 6/1936	11-11--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 6/1936	15-41--0.	40.45	121.30	D		F V MT. HARKNESS.
7/ 6/1936	17-35--0.	40.45	121.30	D		F V MT. HARKNESS.
7/10/1936	11-45--0.	36.60	118.10	D		F IV LONEPINE AND OWENYO.
7/10/1936	15-30--0.	36.60	118.75	D		F SEQUOIA NAT'L PARK. LOUD ROAR.
7/10/1936	20-43--0.	36.60	118.75	D		F SEQUOIA NAT'L PARK. NEAR CLOUGH CAVE.
7/10/1936	20-45--0.	36.60	118.75	D		F SEQUOIA NAT'L PARK. NEAR CLOUGH CAVE. THIS AND SHOCKS AT 15-30-0 AND 20-43-0 FELT ALSO IN OWENS VALLEY.
7/11/1936	3-47--0.	36.67	118.10	C	4.0	F OWENS VALLEY. IV AT LONEPINE AND OWENYO. III AT SEQUOIA NATIONAL PARK.
7/11/1936	8-30--0.	36.60	118.10	D		F LONEPINE. AFTERSHOCK OF 3-47-0.
7/11/1936	8-43--0.	36.67	118.10	C	3.0	F AFTERSHOCK OF 3-47-0. IV AT OWENYO. THREE SHORT SHOCKS AT SEQUOIA NATIONAL PARK.
7/11/1936	10- 0--0.	36.67	118.10	C	3.5	F AFTERSHOCK OF 3-47-0. IV AT OWENYO.
7/11/1936	11-30--0.	36.60	118.10	D		F LONEPINE. AFTERSHOCK OF 3-47-0.
7/13/1936	10-43--0.	40.45	121.30	D		F V MT. HARKNESS.

7/25/1936	19-39--0.	38.00	118.00	D	4.0	F	IV AT LUNING AND MINA, NEVADA.
8/11/1936	7-17--0.	36.63	117.85	C	3.5		SE OF BISHOP.
8/20/1936	16-49--0.	37.00	121.60	D		F	2 MI. S OF GILROY. III HOLLISTER.
8/23/1936	10- 2--0.	40.70	124.10	D		F	IV ARCATA, FIELDS LANDING, FORTUNA, SAMOA. III EUREKA.
9/ 5/1936	16-52--0.	35.83	116.50	C	3.0		SE OF LONE PINE.
9/ 5/1936	22-24--0.	35.83	116.50	C	2.5		SE OF LONE PINE.
9/21/1936	8- 5--0.	35.83	117.92	C	2.5		S OF LONE PINE.
9/23/1936	17-14--0.	40.50	121.65	D		F	MANZANITA LAKE, AT OPPOSITE END OF NAT'L PARK FROM CENTER OF TREMORS EARLIER THIS YEAR. STRONGEST SHOCK THUS FAR.
9/24/1936	3- 9--0.	37.60	121.88	D		F	SAN FRANCISCO BAY REGION. V AT MENLO PARK AND IRVINGTON. IV AT ALVARADO, BOULDER CREEK, BURLINGAME, CENTERVILLE, HAYWARD, LIVERMORE, MILPITAS, MORGAN HILL, MOUNT EDEN, NEWARK, NILES, PLEASANTON, REDWOOD CITY, SAN JOSE, SAN LORENZO, SUNNYVALE, AND WARM SPRINGS.
9/24/1936	14-11--0.	37.60	122.88	D	4.0	F	SAN FRANCISCO BAY REGION. FELT OVER AN AREA OF 2,700 SQUARE MILES. V AT REDWOOD CITY AND WARM SPRINGS. IV AT ALVISO, ALVARADO, APTOS, CENTERVILLE, IRVINGTON, LIVERMORE, MILPITAS, NEWARK, NILES, PLEASANTON, SAN JOSE, SUNNYVALE, AND SUNOL.
9/29/1936	3-22--0.	36.67	117.42	C	3.0		NE OF LONE PINE.
10/ 2/1936	15-53--0.	37.25	118.67	C	3.0		BISHOP.
10/ 4/1936	9-31--0.	35.80	118.00	D	2.5	F	6 MILES N OF KERNVILLE.
10/ 6/1936	10-30--0.	37.40	118.35	D		F	LAWS.
10/ 6/1936	12-31--0.	37.25	118.67	C	3.0	F	BISHOP.
10/ 6/1936	12-33--0.	37.25	118.67	C	4.0	F	LAWS.
10/ 6/1936	12-46--0.	37.25	118.67	C	3.0		LAWS.
10/ 6/1936	12-53--0.	37.25	118.67	C	3.0	F	LAWS.
10/ 7/1936	3- 1--0.	37.25	118.67	C	4.0	F	LAWS.
10/ 7/1936	15- 1--0.	38.00	118.00	D	4.0		150 KM NORTH OF TINEMAHA.
10/10/1936	1-25--0.	41.00	125.00	D	5.0		OFF COAST OF NORTHERN CALIFORNIA.
10/10/1936	18-47--0.	37.87	118.50	C	4.0	F	IV AT BISHOP AND LAWS.
10/10/1936	19- 7--0.	37.87	118.50	C	3.5		N OF BISHOP.
10/10/1936	20-10--0.	37.87	118.50	C	3.0	F	IV AT LAWS.
10/13/1936	12-28--0.	39.00	119.00	D	4.0		WESTERN NEVADA.
10/19/1936	4- 9--0.	37.17	118.83	C	3.0		SW OF BISHOP.
10/21/1936	15- 4--0.	38.00	118.00	D	4.0		NEVADA.
10/21/1936	23-17--0.	37.25	118.67	C	3.5		LAWS.
10/26/1936	12-34--0.	38.00	118.00	D	4.0		NEVADA.
11/ 5/1936	14-30- 0.0	36.85	121.40	D		F	HOLLISTER.
11/ 7/1936	13-11--0.	37.88	118.50	C	3.5		N OF BISHOP.
11/10/1936	9-58--0.	37.10	118.90	D	2.5		SW OF BISHOP.
11/11/1936	2-25--0.	37.90	121.85	D		F	6 MI. S OF ANTIOCH. IV OR V PITTSBURG.
11/18/1936	17-15--0.	35.35	120.60	D		F	SAN LUIS OBISPO, SANTA MARGARITA, POZO.
11/23/1936	2-54--0.	40.60	124.15	D		F	FORTUNA. FELT ALSO FERNDALE.
11/23/1936	15-53--0.	37.50	122.00	D		F	6 MI. SE OF NILES. III CENTERVILLE.
11/25/1936	19-19--0.	36.15	117.95	B	2.5		S OF LONE PINE.
12/ 4/1936	15-51--0.	37.40	122.20	D		F	5 MI. SW OF PALO ALTO SEISMOGRAPHIC STA. IV AT MOUNTAIN VIEW.
12/ 4/1936	16-14--0.	37.40	122.20	D		F	AFTERSHOCK OF 15-51-0. III MOUNTAIN VIEW.
12/23/1936	17-16--0.	35.93	120.48	B	3.5		PARKFIELD.
12/25/1936	16- 5--0.	40.50	121.50	D		F	FELT OVER AREA OF 1,000 SQUARE MILES IN NORTH-CENTRAL CALIFORNIA. V AT LAKE ALMANOR, MANZANITA LAKE, TAYLORSVILLE. IV AT LAS PLUMAS, WESTWOOD, CARIBOU, MEADOW VALLEY, CHESTER, MINERAL, TAYLORSVILLE.

1/ 9/1937	0-47--0.	37.00	121.80	D		F 9 MI. NW OF WATSONVILLE. V WATSONVILLE. IV GILROY.
1/20/1937	11-11--0.	37.30	122.15	D		F 6 MI. S OF PALO ALTO SEISMOGRAPHIC STA. FELT IN MOUNTAIN VIEW.
1/23/1937	14-31--0.	36.85	121.65	D		F 12 MI. W OF HOLLISTER.
1/25/1937	10-10--0.	36.30	118.50	D	2.5	SW OF LONE PINE.
2/ 5/1937	18- 2--0.	36.85	121.65	D		F 12 MI. W OF HOLLISTER.
2/ 5/1937	23-17--0.	36.85	121.65	D		F 12 MI. W OF HOLLISTER.
2/ 7/1937	4-41-34.	40.50	125.25		5.8	F FELT OVER AN AREA OF 10,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA. V AT ALDER POINT, ARCATA, CAPE MENDOCINO, CAPETOWN, EUREKA, FERNDALE, FIELDS LANDING, ORLEANS, SCOTIA, SHIVELEY, TRINIDAD, AND UPPER MATTOLE.
2/12/1937	23-26--0.	37.50	118.42	C	4.0	F BISHOP AND LAWS.
2/17/1937	3-33- 0.0	36.70	121.20	C	4.5	F 9 MILES SE OF PAICINES. FELT AT ANTELOPE, HOLLISTER AND PANOCHE.
2/19/1937	9- 9--0.	38.30	118.30	C	5.0	F FELT OVER AN AREA OF 5,000 SQUARE MILES OF WEST-CENTRAL NEVADA. V AT HAWTHORNE AND YERINGTON, NEVADA. IV AT BRIDGEPORT AND LUNING, MINA, AND TONOPAH, NEVADA.
2/19/1937	16-42--0.	35.83	118.25	C	2.5	S OF LONE PINE.
2/19/1937	23- 6--0.	38.00	118.00	D	4.5	F LUNING AND MINA, NEVADA.
2/20/1937	9-58--0.	35.93	120.48	C	4.0	F PARKFIELD AND PASO ROBLES.
2/22/1937	18-10--0.	36.17	121.53	C	4.0	F KING CITY.
2/22/1937	18-23--0.	35.83	118.25	C	2.5	S OF LONE PINE.
2/26/1937	10- 0--0.	38.30	123.00	D		F DILLON BEACH. SEVERAL QUAKES.
2/28/1937	18-17--0.	38.00	118.00	D	4.0	F LUNING AND MINA, NEVADA.
2/29/1937	2-14--0.	35.83	117.85	D		F NEAR OLIVE. FELT EL MODENO AND BREA.
3/ 5/1937	12-47--0.	36.70	121.70	D	4.5	F 12 MI. W OF HOLLISTER. FELT OVER AREA OF 2,000 SQUARE MILES. V AT HOLLISTER, SAN JUAN BAUTISTA, SPRECKLES, AND WATSONVILLE. IV AT APTOS, CHUALAR, GILROY, LOMA MAR, MILPITAS, MONTEREY, MORGAN HILL, MOUNTAIN VIEW, SALINAS, SAN MARTIN, SANTA CRUZ, SOQUEL, AND SUNNYVALE.
3/ 8/1937	10-31--0.	37.80	122.20	D	4.5	F HAYWARD FAULT, 1 MI. N OF UNIV. OF CALIF. CAMPUS, BERKELEY. FELT OVER AN AREA OF 5,000 SQUARE MILES. VII AT BERKELEY. VI AT ALBANY, EL CERRITO, ELMHURST AND OAKLAND. V AT ALVARADO, ATHERTON, RODEO, HAYWARD, LAFAYETTE, LA HONDA, LOS ALTOS, MENLO PARK, MORAGA, MOUNTAIN VIEW, SAN FRANCISCO, PESCADERO, PIEDMONT, REDWOOD CITY, RICHMOND, SAN JOSE, VALLEY FORD.
3/ 9/1937	15-41--0.	37.88	118.50	B	4.0	NEAR BENTON.
3/11/1937	6-25--0.	38.25	122.90	D		F TOMALES, MARIN COUNTY.
3/17/1937	13-19- 0.0	39.40	120.13	D		F HOBART MILLS.
3/22/1937	12- 9--0.	37.75	122.50	D		F SAN FRANCISCO.
4/11/1937	20-29--0.	35.98	117.28	B	3.5	SE OF LONE PINE.
4/25/1937	4-28--0.	39.00	117.00	D	4.5	F WEST CENTRAL NEVADA. V AT POTTS, NEVADA. IV AT CARSON CITY, IONE, LUNING, MINA, ROUND MOUNTAIN, AND STEAMBOAT, NEVADA.
4/28/1937	22-32--0.	37.35	121.90	D		F SAN JOSE.
5/26/1937	2-11--0.	36.95	121.60	D		F 5 MI. SW OF GILROY. V GILROY.
5/31/1937	15-33- 0.0	37.20	120.70	C	3.0	10 MILES NORTH OF DOS PALOS.
5/31/1937	20- 0--0.	38.50	118.25	D		F LUNING, NEVADA.
6/ 5/1937	19-52--0.	39.90	120.90	D		F IV CARIBOU.
6/ 5/1937	21- 5--0.	39.90	120.90	D		F CARIBOU.
6/12/1937	16-57--0.	39.90	120.90	D		F CARIBOU.
6/18/1937	9- 8--0.	41.25	120.00	D		F NEAR S TIP OF LOWER LAKE , MODOC COUNTY. FELT OVER AREA OF 15,000 SQARE MILES. V AT EAGLEVILLE, RAVENDALE, AND RED ROCK, CALIF., AND FLANIGAN, GERLACH, LOVELOCK, MILL CITY, SULPHUR, AND VYA, NEV. IV

							AT DAVIS CREEK, LIKELY, MADELINE, PULGA, SUSANVILLE, AND WENDEL, CALIF., AND JUNGO AND SUTCLIFFE, NEV.
6/27/1937	2-40--0.	35.98	118.48	C	3.5		SW OF LONE PINE.
6/27/1937	4-26--0.	37.60	118.27	C	4.0	F	MOCALNO.
6/30/1937	6-12--0.	37.60	118.27	C	3.5		MOCALNO.
6/30/1937	6-39--0.	37.60	118.27	C	3.0		MOCALNO.
7/18/1937	0-37--0.	36.15	117.95	B	3.5		S OF LONE PINE.
7/19/1937	11-59--0.	37.75	122.38	D		F	SAN FRANCISCO BAY REGION. IV AT LARKSPUR, LOS ALTOS, MILE ROCKS LIGHT STA., MILL VALLEY, REDWOOD CITY, SAN FRANCISCO, AND SAN JOSE.
7/29/1937	16-59--0.	36.42	118.17	C	3.5	F	OWENYO, CLOUGH#S CAVE RANGER STATION, KERN RIVER CANYON.
8/ 6/1937	3-24--0.	38.80	120.10	D	4.5	F	V AT BEAR RIVER, CAMP CONNELL, AND SALT SPRINGS. IV AT BLUE LAKE, COLEVILLE, DARDANELLE, GARDEN VALLEY, MATHER, MOKELUMNE HILL, TOPAZ, AND VADE, CALIFORNIA, AND MINDEN, NEVADA.
8/ 6/1937	3-38--0.	37.83	122.20	D		F	4 MI. SE. OF UNIV. OF CALIF. CAMPUS, BERKELEY. FELT IN OAKLAND.
8/ 8/1937	9-44--0.	36.10	117.90	C	2.5		S OF LONE PINE.
8/ 9/1937	7-15--0.	40.00	120.40	D		F	SPRING GARDEN AND TAYLORSVILLE.
8/ 9/1937	16-16- 0.0	36.95	121.60	D		F	6 MI. SW OF GILROY. IV AT MOSS LANDING.
8/12/1937	7-31--0.	40.40	124.40	D		F	IV CAPE MENDOCINO. FELT ALSO FERNDALE, FERNBRIDGE, AND KORBEL.
8/15/1937	19- 1--0.	36.50	120.70	D	3.0		S OF FRESNO.
8/16/1937	7-36--0.	37.12	118.67	B	3.5		SW OF BISHOP.
8/19/1937	7- 3--0.	38.00	118.00	D	4.5	F	V AT GILBERT, NEVADA. IV AT BENTON, LAWS, AND BISHOP, CALIF., AND GOLDFIELD, MT.MONTGOMERY, AND SILVER PEAK, NEV.
8/19/1937	7-49--0.	38.00	118.00	D	3.5		SE OF HAWTHORNE, NEV.
8/19/1937	20-42--0.	38.00	118.00	D	3.5		SE OF HAWTHORNE, NEV.
8/20/1937	14-51--0.	36.60	121.45	D		F	7 MI. E OF CHUALAR.
8/23/1937	0-32- 0.0	37.50	120.00		4.0	F	10 MI. W OF MARIPOSA. FELT AT YOSEMITE, EL PORTAL, AND TUOLOMNE MEADOWS.
8/29/1937	5-13- 0.0	37.50	121.65	D		F	9MI. N OF LICK OBSERVATORY. FELT AT SAN JOSE, BLACK MTN., AND BEN LOMOND.
9/ 9/1937	22-11--0.	35.97	117.92	C	3.0		S OF LONE PINE.
9/10/1937	11-10--0.	35.97	117.92	C	3.0		S OF LONE PINE.
9/10/1937	17-34--0.	35.97	117.92	B	4.0		VICINITY OF LITTLE LAKE.
9/11/1937	21-59- 0.0	36.80	121.50	D		F	3MI. NW OF HOLLISTER. FELT AT SAN JUAN BAUTISTA.
9/16/1937	2-48--0.	35.93	120.48	B	3.5	F	NEAR PARKFIELD. FELT AT BRADLEY.
9/17/1937	14- 0--0.	39.55	119.80	D		F	RENO, NEVADA.
9/19/1937	8-37--0.	36.00	118.03	B	4.0		SIERRA NEVADA WEST OF LITTLE LAKE.
9/19/1937	13-29- 0.0	36.50	121.20	D	4.0	F	9 MILES SE OF PAICINES. FELT AT SALINAS, CHUALAR, AND SPRECKELES.
9/25/1937	12-20--0.	37.70	118.47	C	4.0		NEAR BENTON.
10/21/1937	0- 1--0.	36.65	118.10	D		F	5 MI. N OF LONEPINE. FELT OWENYO.
10/27/1937	15-41--0.	36.75	121.50	D		F	HOLLISTER AND SALINAS.
10/27/1937	15-53- 0.0	36.60	121.50	D	4.5	F	6 MI. N OF GONZALES. IV AT APTOS, CHUALAR GONZALES, HOLLISTER, KING CITY, SALINAS, SAN LUCAS, SPRECKELES, BIG SUR, BOULDER CREEK, SAN JAUN BAUTISTA, AND WATSONVILLE.
10/27/1937	15-58--0.	37.17	118.32	C	3.0		S OF BISHOP.
10/27/1937	19- 0--0.	36.03	117.57	C	3.0		SE OF LONE PINE.
10/27/1937	20-25- 0.0	36.60	121.50	D		F	IV SPRECKELES AND SALINAS.

10/28/1937	9- 3--0.	36.80	121.40	D		F HOLLISTER.
10/28/1937	12-27--0.	36.80	121.40	D		F HOLLISTER.
10/30/1937	3-26--0.	40.60	124.25	D		F FERNDALE.
11/ 1/1937	21-40--0.	36.50	121.40	D		F 6 MI. N OF GONZALES.
11/ 3/1937	10- 0--0.	36.15	121.00	D		F V SAN LUCAS. FELT ALSO KING CITY, SAN ARDO
11/ 5/1937	14-43--0.	37.83	122.10	D		F 8 MI. ESE OF U. OF CAL. CAMPUS, BERKELEY.
11/10/1937	12-32--0.	37.00	121.50	D		F 6 MI. E OF GILROY. IV APTOS, GILROY.
11/10/1937	14-29--0.	37.00	121.60	D		F IV GILROY AND WATSONVILLE.
11/12/1937	2-50--0.	37.00	122.00	D	4.0	SAN BENITO COUNTY.
11/14/1937	2-51--0.	36.75	121.40	D		F 3 MI. SW OF TRES PINOS. FELT HOLLISTER.
11/27/1937	20-40--0.	38.50	118.65	D		F HAWTHORNE, NEVADA.
12/ 5/1937	1-36- 0.0	36.80	120.70	D	3.5	F 19 MI. S OF LOS BANOS. V AT LOS BANOS.
12/ 5/1937	1-37- 0.0	36.80	120.70	D	4.0	SAN BENITO COUNTY.
12/ 5/1937	2- 5- 0.0	36.80	120.70	D	3.0	F 19 MI. S OF LOS BANOS.
12/13/1937	10-15--0.	36.75	121.75	D		F 4 MI. SE OF CASTROVILLE. III HOLLISTER.
12/22/1937	14-24--0.	37.10	119.50	D		F NEAR AUBERRY. FELT NAVELANCIA.
12/25/1937	13- 1--0.	36.00	120.00	D	3.0	COALINGA AREA.
1/11/1938	0-25--0.	39.00	123.10	D		F NEAR HOPLAND. FELT OVER AREA OF 1,200 SQUARE MILES. V AT BACHELOR, TALMADGE, UKIAH. IV AT BLUE LAKES, CLOVERDALE, HOPLAND, LAKEPORT, PHILO, POTTER VALLEY, PRESTON, UPPER LAKE.
1/11/1938	18- 4--0.	39.00	123.10	D		F AFTERSHOCK OF 00-25-0. FELT AT BACHELOR, CLOVERDALE, HOPLAND, LAKEPORT, PRESTON, TALMADGE, UKIAH.
1/17/1938	1-54--0.	35.90	117.90	C	2.5	S OF LONE PINE.
2/12/1938	20- 0-14.	37.00	122.00	D	4.5	F 10 MILES WSW OF SANTA CRUZ. FELT OVER A LAND AREA OF 3,000 SQUARE MILES. VI AT COYOTE, MORGAN HILL AND SANTA CRUZ. V AT MOUNTAIN VIEW AND WATSONVILLE. IV AT APTOS, SALINAS, SAN BRUNO, SAN MATEO, BELMONT, BEN LOMOND, BERKELEY, BIG SUR, BOULDER CREEK, CARMEL, DAVENPORT, FELTON, HALFMOON BAY, LAFAYETTE, LA HONDA, LOMA MAR, LOS GATOS, MILPITAS, MONTEREY, MOSS LANDING, NILES, PACIFIC GROVE, PARADISE VALLEY, PIGEON POINT, SAN FRANCISCO, SARATOGA, SEASIDE, AND SOQUEL.
2/21/1938	10-59--0.	35.93	120.48	C	3.0	PARKFIELD.
3/ 1/1938	20-25--0.	40.40	124.30	D		F BRIDGEVILLE AND PETROLIA.
3/14/1938	21-21--0.	38.00	118.00	D	4.0	NEVADA.
5/10/1938	10-32--0.	36.20	121.30	D	4.5	F FELT AT HOLLISTER, KING CITY, PINNACLES, BIG SUR, SALINAS, SOLEDAD, SOQUEL, TRES PINOS. SIX SHOCKS FELT AT PINNACLES.
5/10/1938	10-34- 0.0	36.20	121.30			F FELT AT HOLLISTER, KING CITY, PINNACLES, BIG SUR, SALINAS, SOLEDAD, SOQUEL, TRES PINOS.
5/10/1938	10-41--0.	36.20	121.30	D	4.0	F SAN BENITO.
5/13/1938	19-34--0.	36.20	121.30	D	4.0	MONTEREY COUNTY.
5/15/1938	19- 9--0.	37.33	118.50	C	3.5	BISHOP.
5/27/1938	17-30--0.	39.70	120.25	D		F IN CALIFORNIA, 25 MI. FROM RENO, NEVADA. FELT AT CALPINE, CHILCOOT, DOWNIEVILLE, GRANITEVILLE, JOHNSVILLE, LOYALTON, SATTLEY, SIERRAVILLE, AND SIERRA CITY.
5/27/1938	22- 3- 0.0	36.20	121.00	D	3.5	BEAR VALLEY.
7/ 1/1938	18-13--0.	41.00	124.00	D	5.0	COAST OF NORTHERN CALIFORNIA.
7/ 6/1938	6-26--0.	35.80	116.67	C	3.5	E OF CHINA LAKE
7/18/1938	5-40--0.	36.15	117.95	C	2.5	F NEAR HAIWEE.
9/ 2/1938	20-39--0.	39.25	123.00	D		F REDWOOD VALLEY. FELT UKIAH.
9/12/1938	6-10--0.	40.00	124.00	D	5.5	F FELT OVER AN AREA OF 20,000 SQUARE MILES IN NORTHERN CALIFORNIA. VI AT ALDER POINT, BRIDGEVILLE, EEL ROCK, FERNDALE, FORTUNA, GARBERVILLE, GRIZZLY CREEK, HARRIS, HOLMES, OCEAN HOUSE, PEPPERWOOD, SCOTIA, SHIVELY, UPPER MATTOLE, AND WEOTT. V AT ALTON, ARCATA, BAYSIDE,

							BEATRICE, BELL SPRINGS, BENBOW, BRANSCOMB, CAPETOWN, CAPE MENDOCINO, CARLOTTA, COMPICHE, COVELO, CUMMINGS, CUTTEN, DEL LOMA, ETTERSBURG, EUREKA, FERNBRIDGE, FIELDS LANDING, FORT BRAGG, FORT SEWARD, HONEYDEW, ISLAND MOUNTAIN, LAKE MOUNTAIN, LOLETA, LOW GAP, MIRANDA, PETROLIA, PUNTA GORDA, RIO DELL, SOUTH FORK, SPY ROCK, AND ZENIA.
9/16/1938	6-11--0.	36.40	121.20	D	4.0	F	PINNACLES.
9/17/1938	10-41--0.	37.17	118.32	B	3.0		S OF BISHOP.
9/23/1938	8-20--0.	38.00	118.00	D	4.5		NEVADA.
9/27/1938	12-23- 0.0	36.45	121.25	C	5.0	F	FELT OVER AN AREA OF 9,000 SQUARE MILES OF WEST CENTRAL CALIFORNIA, ALONG THE COAST AS FAR AS PESCADERO AND TO THE SOUTH TO SAN LUIS OBISPO. INLAND IT WAS FELT AT STEVENSON, MENDOTA, AND COALINGA. V AT BIG SUR, BRYSON, CHUALAR, GONZALES, GREENFIELD, HARMONY, HOLLISTER, JOLON, LOCKWOOD, PAICINES, PARAISO, PINNACLES, SAN ARDO, SAN BENITO, SAN LUCAS, SOLEDAD, AND SPRECKELS. IV AT BEN LOMOND, CAMBRIA, CASTROVILLE, CARMEL, DOS PALOS, GILROY, KING CITY, LOS BANOS, MENDOTA, MONTEREY, PASO ROBLES, PRIEST, SALINAS, SAN LUIS OBISPO, TRES PINOS, WATSONVILLE, ETC.
9/27/1938	16-20--0.	36.45	121.25	D		F	PINNACLES AND PAICINES.
10/14/1938	13-10--0.	37.00	120.00	D	3.5		VERY UNCERTAIN (PASADENA REPORT).
10/14/1938	15-31--0.	36.58	121.40	D	4.0		3 MILES NE OF GONZALES.
10/18/1938	5- 5--0.	40.00	124.00	D	4.5	F	OFF COAST. FELT AT EUREKA AND UPPER MATTOLE.
10/24/1938	13-40--0.	36.45	121.25	D		F	PINNACLES AND HOLLISTER.
10/28/1938	10- 7--0.	35.80	120.33	C	3.5		PARKFIELD.
11/ 1/1938	22-46--0.	35.12	120.08	C	3.0		SE OF SAN LUIS OBISPO.
11/10/1938	5-22- 0.0	40.00	124.00	D		F	OFF COAST. FELT ARCATA, BEATRICE, EUREKA, AND FIELDS LANDING.
11/15/1938	13-48--0.	39.25	123.00	D		F	E CENTRAL MENDOCINO CO. V TO VI AT POTTER VALLEY, REDWOOD VALLEY, CALPELLA, CLEARLAKE OAKS, TALMADGE, AND UPPER LAKE.
11/16/1938	13-39--0.	35.80	120.33	C	3.0		PARKFIELD.
11/22/1938	15-30--0.	35.93	120.48	B	4.5	F	NEAR PARKFIELD. FELT AT CRESTON, CAMBRIA, ATASCADERO, MORRO BAY, PARKFIELD, PASO ROBLES, SHANDON, AND SAN MIGUEL.
11/25/1938	2-35--0.	37.45	119.00	C	3.5		W OF BISHOP.
11/30/1938	5-50- 0.0	37.75	122.55	D		F	FELT AT BELVEDERE, BRISBANE, BURLINGAME, COLMA, FAIRFAX, FORT BAKER, FORT BARRY, HAYWARD, LARKSPUR, MILE ROCKS, MONTARA, MORAGA, OAKLAND, PALO ALTO, ROCKAWAY BEACH, ROSS, SAN BRUNO, SAN FRANCISCO, SAN PABLO, SAN RAFAEL, SAUSALITO, SHARK PARK, AND STINSON BEACH.
12/ 1/1938	16-17--0.	37.50	121.80	D	4.5	F	12 MI NW OF MT. HAMILTON. V-VI SAN JOSE. V SARATOGA. IV ALVISO. ALSO REPORTED FELT BEN LOMOND, CHUALAR, COYOTE, CUPERTINO, IRVINGTON, (AND PASO ROBLES).
12/ 3/1938	17-42--0.	37.50	118.77	B	5.5	F	FELT OVER AN AREA OF 24,000 SQUARE MILES OF SOUTH-CENTRAL CALIFORNIA. VI AT DELPIEDRA, INDEPENDENCE, TERRA BELLA, AND VISALIA. V AT CEDAR GROVE, DUNLAP, FRESNO, SEQUOIA NATIONAL PARK, HETCH HETCHY, LAWS, MAMMOTH LAKES, MATHER, PINEHURST, PINERIDGE, AND STANISLAUS.
12/ 3/1938	17-45--0.	37.50	118.77	B	4.0	F	AFTERSHOCK OF 17-42-0.
12/ 3/1938	17-51--0.	37.50	118.77		3.5		AFTERSHOCK OF 17-42-0.
12/ 3/1938	17-57--0.	37.50	118.77		4.0	F	AFTERSHOCK OF 17-42-0.
12/ 3/1938	18-41--0.	37.50	118.77		4.5	F	AFTERSHOCK OF 17-42-0.
12/ 3/1938	22-17--0.	37.50	118.77		4.0	F	AFTERSHOCK OF 17-42-0.
12/ 3/1938	22-20--0.	37.50	118.77		4.0	F	AFTERSHOCK OF 17-42-0.
12/ 4/1938	18-49--0.	37.50	118.77		4.0	F	AFTERSHOCK OF 17-42-0.
12/16/1938	10-48--0.	37.67	118.42	C	4.0	F	BENTON.
12/23/1938	3-20--0.	37.85	122.25	D		F	FELT AT BERKELEY, EMERYVILLE, FORT BAKER,

						FORT BARRY, LAFAYETTE, MOREGA, PINOLE, AND SAN PABLO.
12/26/1938	5-14--0.	36.00	116.00	C	3.0	E OF DEATH VALLEY.
1/ 3/1939	17-39--0.	36.00	117.73	B	2.5	S OF LONE PINE.
1/ 3/1939	17-44--0.	36.00	117.73	B	3.0	S OF LONE PINE.
1/ 3/1939	17-50--0.	36.00	117.73	B	3.0	S OF LONE PINE.
1/ 3/1939	17-56--0.	36.00	117.73	B	3.0	S OF LONE PINE.
1/ 3/1939	18- 2--0.	36.00	117.73	B	2.5	S OF LONE PINE.
1/ 3/1939	20-59--0.	36.00	117.73	B	3.5	S OF LONE PINE.
1/ 7/1939	20-21--0.	36.00	117.73	B	5.0	F NEAR COSO HOT SPRINGS. TWENTY-TWO SMALL AFTERSHOCKS RECORDED AT HAIWEE. FELT AT BODFISH, DARWIN, HOSPITAL ROCK, KERN CANYON, ISABELLA, KERNVILLE, AND TRONA.
1/ 7/1939	20-34--0.	36.00	117.73	B	3.0	AFTERSHOCK OF 20-21--0.
1/ 9/1939	16-18--0.	36.00	117.73	B	3.5	AFTERSHOCK OF 20-21--0.
1/11/1939	22- 0--0.	39.00	119.20	D	5.5	F FELT OVER AN AREA OF 8,000 SQUARE MILES IN EAST-CENTRAL CALIFORNIA AND WEST-CENTRAL NEVADA. VI AT COLEVILLE. V AT ALTAVILLE AND TUOLUMNE, AND GARDNERVILLE AND HUDSON, NEVADA.
1/15/1939	23- 0--0.	36.00	117.73	B	3.0	S OF LONE PINE.
1/21/1939	7- 8--0.	36.45	121.25	D		F PINNACLES.
1/25/1939	2-55--0.	38.20	118.60	D	3.0	S OF HAWTHORNE, NEV.
1/28/1939	20-20--0.	41.15	125.75	D		F 50 MI. W OF EUREKA. FELT WIDELY.
2/ 5/1939	3-30--0.	35.65	120.65	D		F PASO ROBLES.
2/ 9/1939	6-44--0.	35.93	120.48	C	3.0	F NEAR PARKFIELD.
2/19/1939	3-33--0.	40.60	124.10	D		F CARLOTTA.
2/20/1939	5-48--0.	36.00	117.73	C	3.5	S OF LONE PINE.
2/24/1939	5-27--0.	36.60	121.15	D		F 9 MI. NW OF SAN BENITO. FELT CHUALAR, KING CITY, AND PINNACLES.
2/25/1939	14-15--0.	36.00	117.73	C	3.5	S OF LONE PINE.
2/27/1939	8-36--0.	35.87	117.87	B	3.5	S OF LONE PINE.
2/28/1939	1-10--0.	38.40	122.75	D		F SANTA ROSA.
3/ 1/1939	20-51--0.	35.87	117.87	C	3.0	S OF LONE PINE.
3/ 2/1939	20-13--0.	38.65	122.90	D		F NEAR GEYSERVILLE. FELT CLOVERDALE AND SKAGGS SPRINGS.
3/ 8/1939	9- 0--0.	38.00	120.40	D		F 2 MI. E OF SONORA.
3/12/1939	22- 5--0.	41.00	125.90	D		F 90 MI. W OF TRINIDAD. FELT FERNDALE.
3/16/1939	3-11--0.	36.00	117.73	C	2.5	S OF LONE PINE.
3/17/1939	13- 9--0.	40.75	126.00	D		F 100 MI. W OF EUREKA. FELT SCOTIA AND UPPER MATTOLE.
3/20/1939	22-18--0.	36.00	117.73	C	2.5	S OF LONE PINE.
3/22/1939	3-13--0.	39.90	120.50	D		F 5 TO 10 MI. N OF PORTOLA. FELT PORTOLA AND BLUE CANYON.
3/25/1939	3-45--0.	36.45	121.25	D		F PINNACLES.
3/27/1939	0-45--0.	37.62	122.05	D		F 3 MI. SE OF HAYWARD. FELT CASTRO VALLEY.
3/28/1939	20-32--0.	40.50	124.00	D		F BRIDGEVILLE, FORTUNA, SCOTIA, UPPER MATTOLE, AND WHITLOW.
3/29/1939	21- 1--0.	41.00	121.50	D		F ADIN, BIEBER, BIG VALLEY, FALL RIVER MILLS, AND HAT CREEK.
4/ 3/1939	7-10--0.	37.45	119.00	C	4.0	SIERRA NEVADA, SOUTH OF MAMMOTH.
4/ 6/1939	21-43--0.	37.78	122.10	D		F BERKELEY, CANYON, EAST OAKLAND, OAKLAND, AND SAN LEANDRO.
4/ 9/1939	0- 8--0.	36.30	118.10	D	3.0	S OF LONE PINE.
4/26/1939	15-40--0.	36.15	117.95	B	3.0	S OF LONE PINE.
4/26/1939	16-13--0.	36.15	117.95	B	3.0	S OF LONE PINE.

4/28/1939	21-59--0.	39.00	117.00	D	4.5	NEVADA.
4/29/1939	22-34--0.	40.10	124.30	D		F 30 MI. S OF FERNDALE. FELT EUREKA, FERNDALE, SCOTIA, UPPER MATTOLE, AND WHITLOW.
5/ 1/1939	21-54--0.	40.20	124.70	D	4.5	F FELT AT ARCATA, BLUE LAKE, BRICELAND, CAPE MENDOCINO, CAPETOWN, CARLOTTA, DYERVILLE, ETTERSBURG, EUREKA, FERNDALE, GARBERVILLE, HONEYDEW, PETROLIA, SCOTIA, UPPER MATTOLE, AND WESTPORT.
5/ 2/1939	18-49--0.	35.93	120.48	C	4.0	F IV AT PARKFIELD.
5/ 3/1939	12-39--0.	35.65	120.65	D		F PASO ROBLES.
5/11/1939	2-42--0.	38.00	118.00	D	4.5	NEVADA.
5/11/1939	18- 4--0.	38.58	117.83	C	5.5	F NEAR MINA, NEVADA. FELT OVER AN AREA OF 38,000 SQUARE MILES. VI AT RAWHIDE, NEVADA. V AT BODIE AND CARSON CITY, GILBERT, MINA, MT. MONTGOMERY, SCHURZ, AND YERINGTON, NEVADA. IV AT BENTON AND BRIDGEPORT, AND DYER, EUREKA, FALLON, GOLDFIELD, HAWTHORNE, HAZEN, HUDSON, IONE, LOVELOCK, LUNING, MASON, ROUND MOUNTAIN, SILVER PEAK, AND TONOPAH, NEVADA.
5/11/1939	20-59--0.	38.58	117.83	C	4.5	AFTERSHOCK OF 18-4-0.
5/12/1939	6-42--0.	38.58	117.83	C	3.5	AFTERSHOCK OF 18-4-0.
5/12/1939	7-49--0.	38.58	117.97	C	4.0	AFTERSHOCK OF 18-4-0.
5/13/1939	2-49--0.	38.58	117.83	C	4.5	NEVADA.
5/13/1939	21- 8--0.	38.58	117.83	C	3.5	AFTERSHOCK OF 18-4-0.
5/14/1939	7-59--0.	37.50	118.53	C	3.5	BISHIP.
5/16/1939	8-24--0.	40.35	121.00	D		F 30 MI. E OF MINERAL. FELT GREENVILLE.
5/17/1939	3-42--0.	37.50	118.53	C	4.0	F NEAR LAWS. FELT AT KEELER AND BISHOP.
5/17/1939	11- 7--0.	36.17	117.83	B	3.0	S OF LONE PINE.
5/17/1939	18-19--0.	38.58	117.83	C	4.5	NEAR MINA, NEVADA.
5/18/1939	23- 0--0.	35.80	120.33	C	3.0	PARKFIELD.
5/20/1939	3-12--0.	38.58	117.83	C	4.0	NEAR MINA, NEVADA.
5/21/1939	19-59--0.	37.50	118.53	C	4.0	F LAWS.
5/31/1939	2- 5--0.	37.20	122.00	D		F APTOS, LOS GATOS, SANTA CRUZ, SOQUEL.
6/ 7/1939	15-14--0.	38.58	122.83	D		F HEALDSBURG-JENNER AREA. FELT HEALDSBURG.
6/12/1939	18- 5--0.	37.02	117.25	C	3.5	SE OF BISHOP.
6/12/1939	18- 8--0.	37.02	117.25	C	3.5	SE OF BISHOP.
6/12/1939	18-24--0.	37.02	117.25	C	3.5	SE OF BISHOP.
6/13/1939	17-15--0.	37.02	117.25	B	5.0	F FELT AT DARWIN, DEATH VALLEY, AND TINEMAHA, AND AT BEATTY, NEVADA.
6/13/1939	18-10--0.	36.50	116.90	D		F DEATH VALLEY.
6/21/1939	11-23--0.	38.60	117.80	C	4.5	NEAR MINA, NEVADA.
6/21/1939	13-40--0.	37.65	122.10	D		F HAYWARD.
6/21/1939	16-44--0.	40.60	124.25	D		F FERNDALE.
6/22/1939	14-42--0.	40.30	124.40	D		F 6 MI. NW OF PUNTA GORDA. FELT OVER AREA OF 1,000 SQUARE MILES. V AT UPPER MATTOLE. FELT ALSO CAPE MENDOCINO, CAPETOWN, ETTERSBURG, EUREKA, FERNDALE, FIELDS LANDING, LOLETA, PETROLIA, PUNTA GORDA, SCOTIA, AND UPPER MATTOLE.
6/23/1939	17-28--0.	40.50	121.50	D		F 12 MI. FROM MINERAL. V AT BROKE OFF MTN. LOOKOUT STA. FELT MANZANITA LAKE AND MINERAL.
6/24/1939	12-15--0.	37.10	121.65	D		F MORGAN HILL.
6/24/1939	12-40--0.	36.60	121.85	D		F MARINA.
6/24/1939	12-55--0.	35.85	120.85	D		F BRADLEY.
6/24/1939	12-59--0.	37.10	121.60	D		F SAN MARTIN.
6/24/1939	13- 2- 0.0	36.80	121.45	C	5.5	F FELT OVER AN AREA OF 10,000 SQUARE MILES IN WEST CENTRAL CALIFORNIA, ALONG THE COAST AS FAR NORTH AS HALF MOON BAY AND TO THE SOUTH TO ESTERO BAY. INLAND IT WAS FELT AT VOLTA , TRANQUILITY, AND COALINGA. VII AT HOLLISTER. VI AT KING CITY AND PAICINES. V AT CAYUCOS,

SOLEDAD, AND SPRECKELS. IV AT APTOS, BEN LOMOND, BIG BASIN, BIG SUR, BOULDER CREEK, CAMBRIA, CARMEL, CASTROVILLE, CHUALAR, GILROY, GONZALES, LOCKWOOD, MILPITAS, MONTEREY, NIPOMO, PASO ROBLES, PINNACLES, SALINAS, SAN ARDO, SAN BENITO, SAN JUAN, SAN MIGUEL, SAN SIMEON, SANTA CRUZ, TRES PINOS, AND WATSONVILLE.

6/25/1939	20-53--0.	36.85	121.40	D		F HOLLISTER.
6/26/1939	12-45--0.	36.85	121.40	D		F HOLLISTER.
6/26/1939	13-36--0.	36.85	121.40	D		F AFTERSHOCK OF 13-02-0 ON 6/24/39. IV AT HOLLISTER. FELT ALSO CHUALAR.
6/29/1939	16-54--0.	36.85	121.40	D		F HOLLISTER.
7/ 4/1939	10-49- 0.0	36.85	121.40	C	4.0	F FELT AT HOLLISTER, PAICINES, AND SALINAS.
7/ 5/1939	6-45--0.	36.65	121.25	D		F PAICINES.
7/ 5/1939	6-58--0.	36.85	121.40	D		F HOLLISTER.
7/10/1939	18-17- 0.0	36.40	121.25	D		F PINNACLES.
7/12/1939	3-45--0.	40.90	121.50	D		F CASSEL.
7/15/1939	3-30--0.	38.20	121.50	D		F SACRAMENTO. BSSA, OCTOBER 1939.
7/16/1939	19- 7--0.	37.33	121.50	D		F 9 MI. E OF LICK OBSERVATORY. FELT SAN JOSE
7/17/1939	9-25--0.	36.85	121.68	D	4.5	F 4 MILES SE OF WATSONVILLE. V AT MONTERY, OLYMPIA, SAN JOSE, WATSONVILLE. IV AT APTOS, AROMAS, BIG BASIN, BLANCO, CARMEL, CAPITOLA, CASTROVILLE, FELTON, GILROY, HOLLISTER, HOLY CITY, KING CITY, LAUREL, LOS GATOS, MARINA, MOSS LANDING, REDWOOD CITY, SAN FRANCISCO, SANTA CRUZ, SEASIDE, SUNNYVALE, AND WRIGHTS.
7/17/1939	9-45--0.	36.85	121.40	D		F HOLLISTER
7/17/1939	11-55--0.	36.90	121.75	D		F WATSONVILLE AREA.
7/24/1939	9-30--0.	36.25	121.80	D		F BIG SUR.
7/24/1939	13- 0--0.	36.00	121.15	D		F JOLON.
7/25/1939	11-23--0.	36.13	117.92	B	3.0	S OF LONE PINE.
8/ 9/1939	21-53--0.	36.60	121.45	D		F 12 MI. E OF SPRECKLES. FELT S OF HOLLISTER
8/11/1939	17-16-35.	37.02	117.25	C	3.0	SE OF BISHOP.
8/14/1939	13-44- 0.0	39.15	121.10	D		F GRASS VALLEY. BSSA, OCTOBER 1939.
8/15/1939	8-57- 0.0	36.85	121.40	D		F HOLLISTER.
8/15/1939	8-59- 0.0	36.85	121.40	D		F HOLLISTER.
8/15/1939	15-43-18.	36.00	117.58	B	4.0	ARGUS MOUNTAINS.
8/23/1939	11-53-39.	36.50	118.08	C	3.5	F NEAR OWENS LAKE. FELT AT CARTAGO, DARWIN, KEELER, LONE PINE, AND OWENYO.
8/23/1939	12-20--0.	36.70	118.05	D		F OWENYO.
8/25/1939	4- 7--0.	40.35	121.60	D		F MINERAL AND BROKE OFF MTN. LOOKOUT STA.
9/ 1/1939	16-56- 0.0	37.40	121.70	D		F 9 MI. NW OF LICK OBSERVATORY. FELT IN SAN JOSE.
9/ 1/1939	19-18--0.	36.75	121.35	D		F 11MI. SW OF HOLLISTER. FELT HOLLISTER.
9/ 5/1939	16-58--0.	37.35	121.90	D		F EAST SAN JOSE.
9/ 7/1939	2-50-30.	35.42	121.08	C	3.0	F OFF SAN LUIS OBISPO CO. FELT AT CAMBRIA.
9/12/1939	0-44-38.	36.00	117.73	C	3.0	S OF LONE PINE.
9/13/1939	14-42-49.	35.83	116.58	C	3.0	E OF CHINA LAKE.
9/20/1939	2-45-29.	36.68	121.56	C	4.0	F FELT AT BIG SUR, CASTROVILLE, FELTON, HOLLISTER, MOSS LANDING, PINNACLES, SALINAS, SAN JOSE, SAN MARTIN, AND SEASIDE.
9/20/1939	11-15--0.	38.60	117.80	D	4.0	NEVADA.
9/21/1939	9-17--0.	37.00	117.00	D	4.0	ESMERALDA COUNTY, NEVADA.
9/22/1939	10-55- 0.0	37.75	122.50	D		F OAKLAND AND SAN FRANCISCO.
9/22/1939	20-25--0.	40.52	123.85	D		F BRIDGEVILLE.
9/23/1939	5-30--0.	36.65	121.65	D		F SALINAS.
9/23/1939	5-38--0.	36.85	121.40	D		F HOLLISTER.

9/23/1939	6-49- 0.0	36.65	121.65	D		F	SALINAS.
9/24/1939	11-57-40.	36.40	121.00	D	3.5		STONE CANYON.
10/ 3/1939	22-17--0.	40.50	124.10	D		F	SCOTIA.
10/ 6/1939	4-39- 0.0	36.50	121.50	D	3.5		S OF HOLLISTER.
10/10/1939	6-10--0.	40.50	124.10	D		F	FERNDALE, SCOTIA, UPPER MATTOLE.
10/13/1939	17-30--0.	36.65	121.65	D		F	SALINAS.
10/15/1939	7-17-38.0	37.50	118.53	C	3.0		BISHIP.
10/19/1939	5-30-17.	37.45	119.00	C	3.5	F	OWENS RIVER GORGE NEAR BISHOP.
11/ 4/1939	14-11-33.	36.20	120.90	D	3.0	F	SALINAS AND SAN LUCAS.
11/ 5/1939	16-14--0.	38.00	118.00	D	4.0		NEVADA.
11/ 8/1939	3-25--0.	39.15	121.10	D		F	GRASS VALLEY AND AREA. FELT BY MINERS DOWN TO 4,500 FEET VERTICAL DEPTH.
11/15/1939	16-12--0.	38.50	118.25	D		F	LUNING, NEVADA.
11/17/1939	20-40-45.	36.15	117.95	B	3.0		S OF LONE PINE.
11/19/1939	12-37--0.	40.00	121.50	D		F	INSKIP BUTTE LOOKOUT (FOREST SERVICE).
12/ 1/1939	13- 5- 4.	36.37	118.02	B	4.0	F	OWENS LAKE. FELT AT CARTAGO AND KEELER.
12/ 1/1939	19-12--0.	37.75	122.50	D		F	SAN FRANCISCO.
12/14/1939	3-45-18.	36.10	120.00	D	3.0		E OF COALINGA.
12/17/1939	15-45--0.	40.00	120.80	D		F	TAYLORSVILLE.
12/19/1939	20-12- 9.	35.93	116.87	C	4.0		SOUTHERN END OF DEATH VALLEY.
12/28/1939	12-15-38.	35.80	120.33	B	5.0	F	FELT OVER AN AREA OF 15,000 SQUARE MILES IN WEST-CENTRAL CALIFORNIA, ON THE COAST FROM SANTA CRUZ SOUTH TO POINT ARGUELLO AND INLAND TO LOST HILLS AND FRESNO. V AT COALINGA, FRESNO, GREENFIELD, PRIEST, SAN ARDO, AND SAN LUCAS. IV AT APTOS, ATASCADERO, BIG SUR, CAMBRIA, CARMEL, CASTROVILLE, CAYUCOS, CHUALAR, COALINGA, GONZALES, HOLLISTER, KING CITY, MENDOTA, MONTEREY, MORRO BAY, PARKFIELD, PASO ROBLES, PINNACLES, SALINAS, SAN JUAN BAUTISTA, SAN LUIS OBISPO, SANTA CRUZ, SOLEDAD, TAFT, ETC.
12/29/1939	4- 0--0.	36.40	121.25	D		F	PINNACLES.
12/29/1939	9-27-20.	35.83	117.00	C	3.0		SE OF LONE PINE.
12/30/1939	5- 0-47.	35.83	117.00	B	4.0		PANAMINT MOUNTAINS.
12/30/1939	15-24-37.	35.80	120.33	B	3.5	F	NEAR PARKFIELD. FELT AT SAN LUCAS.
12/31/1939	10- 3- 0.0	40.85	124.15	D		F	EUREKA.
1/14/1940	3- 0--0.	38.00	122.35	D		F	SOUTH OF NAPA.
1/16/1940	6- 5- 0.0	37.75	122.15	D		F	EASTERN SAN FRANCISCO BAY REGION.
1/23/1940	5-11--0.	37.35	121.90	D		F	NEAR SAN JOSE.
2/ 4/1940	19-23--0.	39.25	120.25	D		F	LAKE TAHOE REGION. FELT BOCA, CLIO, FLORISTON, SODA SPRINGS, TAHOE, AND TRUCKEE.
2/ 5/1940	2-44- 0.0	37.75	122.50	D		F	SAN FRANCISCO.
2/ 8/1940	8- 5-59.0	40.00	121.60		5.7	F	FELT OVER AN AREA OF 28,000 SQUARE MI. OF NORTH CENTRAL CALIFORNIA. VI AT ALMANOR, BANGOR, BUTTE CITY, CHICO, GRIDLEY LA PORTE, NEVADA CITY, PARADISE, TEHAMA, AND VINTON. V AT BAXTER, BECKWOARTH, BELDEN, BLAIRSDEN, CARIBOU, CHESTER, CORNING, CRESCENT MILLS, DE SABLA, DUTCH FLAT, FEATHER RIVER, CAJON, FOREST RANCH, GRANITEVILLE, GREENVILLE, GRIMES, MEADOW VALLEY, MILFORD, MILLVILLE, MINERAL, OROVILLE, PORTOLA, QUINCY, SENECA, WOODLAND, AND YOLO. NEW BERKELEY SOLUTION 1973.
2/13/1940	23-53--0.	40.00	124.00	D		F	NO. CALIFORNIA COAST. FELT STRONGLY UKIAH, BRANSCOMB, ELK, FERNDALE, SCOTIA, WESTPORT. FELT ALSO BENBOW, CASPER, COMPTCHE, ETTERSBURG, MANCHESTER, NASHMEAD, POTTER VALLEY, SPYROCK, UPPER MATTOLE.
2/24/1940	9-38- 0.	37.50	118.53	C	4.5	F	SIERRA NEVADA, NORTH OF BISHOP. FELT AT OWENS RIVER GORGE.
2/24/1940	9-48-37.	37.50	118.53	C	3.5	F	SIERRA NEVADA, NORTH OF BISHOP. FELT AT YOSEMITE NATIONAL PARK.

3/ 2/1940	13-27--0.	36.80	121.45	B	4.0	F	2 MILES WEST OF HOLLISTER. V AT GILROY AND MORGAN HILL. IV AT HOLLISTER, MADRONE, SALINAS, SAN FRANCISCO, SAN JOSE, SAN MARTIN, AND WATSONVILLE.
3/ 5/1940	21-56--0.	40.00	124.00	D		F	NO. CALIFORNIA COAST. FELT AT ARCATA, FIELDS LANDING, AND TRINIDAD.
3/11/1940	5-23--0.	41.00	122.50	D		F	NO. CENTRAL CALIFORNIA. FELT STRONGLY AT DUNSMUIR, KENNETT, MT. SHASTA, REDDING. FELT ALSO AT BAYLES, BIG BEND, CARRVILLE, CASTELLA, CLAYTON, HAZEL CREEK, AND MCCLOUD.
3/19/1940	0-16--0.	36.75	121.75	D		F	MONTEREY BAY AREA. FELT HOLLISTER, SALINAS
3/25/1940	21-18-18.	36.80	117.10	D	4.0		NORTHERN END OF DEATH VALLEY.
4/ 8/1940	13-34-39.	37.58	118.42	B	4.0	F	FELT AT BIG CREEK, BISHOP, DELPIEDRA, DUNLAP, HORSE SHOE BEND, LAWS, OWENS RIVER GORGE, AND WOODLAKE.
4/18/1940	10-30- 0.0	37.35	121.65	B		F	SAN JOSE, SANTA CLARA, SARATOGA, MORGAN HILL, AND MADRONE.
5/ 4/1940	13-21-38.	35.90	117.80	C	3.0		S OF LONE PINE.
5/ 8/1940	17-40- 0.	37.88	118.50	C	4.0		MONO COUNTY.
5/21/1940	10- 5-34.	35.28	120.48	B	4.0	F	FELT AT CAMBRIA, CAYUCOS, MORRO BAY, SAN LUIS OBISPO, PISMO BEACH, PASO ROBLES, AND ATASCADERO.
6/ 3/1940	5-42-48.	38.80	117.80	D	4.0		NEVADA.
6/ 4/1940	1-15--0.	37.35	121.90	D		F	SAN JOSE.
6/26/1940	5-21--0.	40.50	124.00	D		F	HUMBOLDT COUNTY. FELT FERNDALE, SCOTIA, FORTUNA, AND DYERVILLE.
6/26/1940	8-56- 0.	36.08	120.32	C	3.5		COALINGA.
7/ 8/1940	10- 4-45.	38.58	117.83	C	4.5	F	NEAR MINA, NEVADA. FELT AT BENTON.
7/ 8/1940	10-57-40.	37.45	119.00	C	5.0	F	SIERRA NEVADA, SOUTH OF MAMMOTH. FELT AT BENTON, BISHOP, HOT CREEK, HUNTINGTON LAKE, LAKESHORE, AND YOSEMITE VALLEY.
7/21/1940	14-14-50.	37.45	119.00	C	3.5	F	NEAR MAMMOTH LAKES. FELT AT BENTON AND HOT CREEK.
7/21/1940	22-15-40.	37.45	119.00	C	3.5	F	NEAR MAMMOTH LAKES. FELT AT BENTON AND HOT CREEK.
7/22/1940	21- 0-33.	37.63	118.87	B	4.5	F	FELT AT BIG CREEK, BENTON, AND HOT CREEK.
7/23/1940	4-32-12.	37.63	118.87	C	3.5		NW OF BISHOP.
8/13/1940	22- 7-29.	36.23	120.32	B	4.0		DEPT. WATER RESOURCES DATA
8/21/1940	6-55-18.	38.00	117.00	D	3.5		S OF AUSTIN, NEV.
8/26/1940	17-15-28.	36.33	118.25	C	3.5		SW OF LONE PINE.
8/28/1940	4-53-41.	36.03	118.50	B	3.5	F	UPPER KERN RIVER. FELT AT THE BLUE RIDGE, MULE PEAK, NEEDLES, AND TOBIAS LOOKOUTS, THE FROG MEADOW AND POSO GUARD STAS., CALIF. HOT SPRINGS, GLENDALE, HALEY MEADOWS, KERN RIVER, SEQUOIA NAT'L PARK, AND QUAKING ASPEN.
9/ 7/1940	10-36-30.	36.50	121.50	D	3.5		S OF HOLLISTER.
9/ 7/1940	10-38-36.	36.50	121.50	D	3.5		S OF HOLLISTER.
9/ 7/1940	13- 2- 6.	36.50	121.50	D	4.5	F	FELT AT CARMEL AND SALINAS.
9/10/1940	1-40-36.	36.13	117.95	B	2.5		S OF LONE PINE.
9/19/1940	8-20-18.0	37.90	121.70	A	4.0	F	FELT AT BYRON, ISLETON, AND STOCKTON.
9/20/1940	18-59- 0.0	37.90	121.70	A	4.0	F	FELT AT BYRON.
9/27/1940	17- 3- 0.0	40.50	125.00	D	4.5	F	V AT BLUE LAKE AND UPPER MATTOLE. IV AT ARCATA, EUREKA, AND FERNDALE. ALSO FELT AT BRICELAND, BRIDGEVILLE, CARLOTTA, DYERVILLE, ETTERSBURG, GARBERVILLE, KNEELAND, MIRANDA, ORICK, PEPPERWOOD, PETROLIA, ROCKPORT, SCOTIA, AND TRINIDAD.
10/ 6/1940	20-56- 0.0	40.50	124.08	D		F	SCOTIA AND UPPER MATTOLE.
10/11/1940	23- 1- 4.	37.17	118.32	C	3.0		BISHOP.
10/20/1940	19- 0--0.	37.75	122.15	D		F	SAN FRANCISCO BAY REGION. FELT WALNUT

							CREEK AND LAFAYETTE.
10/22/1940	11- 1--0.	40.50	124.10	D		F	VI AT SCOTIA. FELT STRONGLY BRIDGEVILLE, FERNDALE, FORTUNA, ALTON, UPPER MATTOLE, WEOTT. FELT ALSO ARCATA, BLUE LAKE, BRICELAND, ETTERSBURG, EUREKA, GARBERVILLE, LOLETA, MIRANDA, PEPPERWOOD, PETROLIA, YAGER. THREE AFTERSHOCKS SAME DAY FELT AT SCOTIA.
10/23/1940	10-30--0.	40.50	124.10	D		F	AFTERSHOCK OF 11-01-0. FELT ALTON, FIELDS LANDING, BRIDGEVILLE, FORTUNA, SCOTIA, UPPER MATTOLE, YAGER.
10/23/1940	14-50--0.	40.50	124.10	D		F	AFTERSHOCK OF 11-01-0.
10/30/1940	8-35--0.	38.40	122.75	D		F	SANTA ROSA. POSSIBLY AN EXPLOSION.
11/ 1/1940	10-32-12.	37.50	118.30	C	3.5		BISHOP.
11/ 2/1940	19-15--0.	40.50	124.15	D		F	ALTON AND SCOTIA.
11/17/1940	7-24--0.	40.60	124.20	D		F	FELT OVER LAND AREA OF 2,500 SQUARE MILES. V AT FERNDALE, FORTUNA, FIELDS LANDING. IV AT CARLOTTA, KLAMATH, ROCKPORT, UPPER MATTOLE, WESTPORT. V AT CAPETOWN, EUREKA, FORTUNA.
11/19/1940	18-35- 0.0	40.75	124.90	D		F	FELT OVER LAND AREA OF 8,000 SQUARE MI. VI AT BRICELAND, BRIDGEVILLE, HONEYDEW, PUNTA GORDA, UPPER MATTOLE. V AT EUREKA, GARBERVILLE, AND FORTUNA.
12/20/1940	23-40-42.	40.00	124.00	D	5.5	F	FELT OVER AN AREA OF 9,000 SQUARE MILES OF NORTHERN CALIFORNIA. VI AT BENBOW, BRICELAND, ETTERSBURG, FERNDALE, FORT BRAGG, GARBERVILLE, AND ROCKPORT. V AT FIELDS LANDING, FOREST GLEN, HARRIS, PETROLIA, PUNTA GORDA, UPPER LAKE, UPPER MATTOLE, WEOTT, AND WILLITS.
12/24/1940	11-45- 6.	36.00	118.40	B	3.0		SW OF LONE PINE.
1/20/1941	6-14--0.	40.50	125.00	D		F	EUREKA, BLUE LAKE, UPPER MATTOLE, SCOTIA.
1/23/1941	12- 3--0.	40.50	125.00	D		F	HUMBOLDT BAY REGION. FELT OVER LAND AREA OF 2,000 SQUARE MILES. V AT DYERVILLE, EUREKA, FERNDALE, FIELDS LANDING, PUNTA GORDA LIGHT STA., MIRANDA, RIO DELL, SHELTER COVE, SHIVELY, WEOTT, BRIDGEVILLE.
1/28/1941	7- 8--0.	37.10	118.15	D		F	TINEMAHA.
1/28/1941	7-26--0.	39.50	118.75	D		F	FALLON, NEVADA.
1/29/1941	9-23--0.	37.10	118.15	D		F	TINEMAHA.
2/ 9/1941	9-44-42.0	40.70	125.40		6.4	F	FELT OVER AN AREA OF 17,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA AND SOUTHWESTERN OREGON. VI AT ARCATA, EUREKA, FERNDALE, PUNTA GORDA, AND SHELTER COVE. V AT BRIDGEVILLE, CARLOTTA, CRESCENT CITY, FIELDS LANDING, FOREST GLEN, FORT SEWARD, FORTUNA, GARBERVILLE, KLAMATH, LOLETA, ORICK, ORLEANS, SCOTIA, SOUTH FORK, TRINIDAD, UPPER MATTOLE, WEOTT, AND WILLOWS CREEK, AND GRANTS PASS AND PORT ORFORD, OREGON.
2/11/1941	4-51--0.	40.00	125.00	D	4.5	F	AFTERSHOCK OF 9-44-42. FELT AT SCOTIA.
2/21/1941	11-33-56.	36.15	117.95	C	3.5		S OF LONE PINE.
2/28/1941	20-14--0.	40.50	124.00	D		F	WEOTT AND SCOTIA.
3/ 6/1941	7-18--0.	37.75	122.15	D		F	SAN LEANDRO AND OAKLAND.
3/16/1941	7-55--0.	37.10	118.15	D		F	BENBOW AND TINEMAHA.
3/17/1941	4-20-33.	36.13	117.97	C	3.0		S OF LONE PINE.
3/19/1941	0-15--0.	36.75	121.55	D		F	HOLLISTER AND SALINAS.
3/27/1941	10-44-42.	37.20	119.80	C	3.5	F	MADERA COUNTY. FELT AT RAYMOND, YOSEMITE NATIONAL PARK, KNOLLS, AND MARIPOSA COUNTY.
3/31/1941	20- 1- 0.0	37.60	121.80	B		F	SUNOL.
4/ 5/1941	12-41--0.	38.75	120.00	D		F	WOODFORDS, MARKLEEVILLE, YOSEMITE PARK.
4/14/1941	16-16-54.0	37.03	121.97	B	4.0	F	FELT OVER AN AREA OF 5,000 SQUARE MI. OF THE SAN FRANCISCO-MONTEREY BAY REGION. VI AT ALMA, APTOS, CAPITOLA, SANTA CRUZ, AND SOQUEL. V AT SAN FRANCISCO, SAN MARTIN, SARATOGA, AND WATSONVILLE.
4/25/1941	2-37-53.	36.20	117.80	C	3.0		HAIWEE.
5/ 1/1941	13-29--0.	40.00	121.00	D	4.5	F	FELT AT ALMANOR, BUCKS, CARIBOU, DE SABLA, PRATTVILLE, AND STIRLING CITY.

5/ 8/1941	14-53-40.	37.50	118.53	C	4.0		NORTH OF BISHOP.
5/13/1941	16- 1-54.0	40.30	126.40		6.0	F	FELT AT ARCATA, BEN LOMOND, BLUE LAKE, BOLINAS, CARLOTTA, ETTERSBURG, EUREKA, FERNDALE, FORT BRAGG, LOLETA, PETROLIA, REDWOOD CITY, RIO DELL, ROCKPORT, SAN FRANCISCO, SANTA CRUZ, SCOTIA, SHIVELEY, TRINIDAD, UKIAH, UPPER MATTOLE, WILDWOOD, AND WILLITS. ALSO FELT AT DEPOE BAY AND KNAPPA, OREGON.
5/15/1941	1-29- 0.0	36.15	120.35	D		F	COALINGA.
5/15/1941	6- 0--0.	36.15	120.35	D		F	COALINGA.
5/16/1941	2-36-42.0	40.30	125.00		4.5		AFTERSHOCK OF 16-01-54 OF 5/13.
5/28/1941	6-23-18.0	37.08	121.75	B	4.5	F	FELT OVER AN AREA OF 4,500 SQUARE MI. OF THE SAN FRANCISCO-MONTEREY BAY REGION. VI AT SAN MARTIN. V AT BOULDER CREEK, KENTFIELD, LOS GATOS, MANOR, SAN CARLOS, SAN FRANCISCO, NILES, AND SOQUEL.
6/ 8/1941	2-18- 0.	36.72	118.17	B	3.5	F	INDEPENDENCE.
7/ 1/1941	16-14--0.	36.85	121.52	A		F	SMALL SIZE. IV AT HOLLISTER.
7/ 6/1941	3-51--0.	37.12	121.43	B			SMALL SIZE.
7/ 6/1941	8-47--0.	39.33	123.25	D		F	UKIAH.
7/13/1941	23-51--0.	37.22	122.25	B			SMALL SIZE.
7/14/1941	1-44-46.	36.05	118.33	C	3.0		SW OF LONE PINE.
7/15/1941	20-38--0.	37.22	122.25	B			SMALL SIZE.
7/18/1941	3-53-42.	40.00	119.00	D	5.0	F	WADSWORTH, NEVADA.
7/19/1941	18-28--0.	37.18	122.30	C			TINY SIZE.
7/23/1941	21-12--0.	38.13	122.55	B		F	MODERATE SIZE. V AT IGNACIO AND NOVATO. IV AT KENTFIELD, OLEMA, ROSS, SAN RAFAEL, AND SAUSALITO. III AT PETALUMA.
7/25/1941	1-53-30.	36.00	117.80	C	2.5		S OF LONE PINE.
7/26/1941	16-51--0.	37.97	121.78	B			TINY SIZE.
7/28/1941	17-22--0.	36.77	121.58	B			SMALL SIZE.
7/30/1941	21-35--0.	37.98	121.97	B			SMALL SIZE.
8/ 2/1941	13-21--0.	36.85	121.52	C			SMALL SIZE.
8/ 2/1941	17-35--0.	37.02	121.55	A			MODERATE SIZE.
8/ 8/1941	23-43--0.	37.20	122.20	D			SMALL SIZE.
8/17/1941	11-14-18.	36.50	118.00	D	3.5	F	OWENS VALLEY. FELT KEELER AND LONE PINE.
8/19/1941	21-10--0.	40.17	124.23	C			MODERATE SIZE.
8/23/1941	5-30--0.	37.02	121.65	B			SMALL SIZE.
8/25/1941	19-40--0.	36.82	121.60	B			SMALL SIZE.
8/26/1941	4-31--0.	36.82	121.60	B		F	SMALL SIZE. III AT HOLLISTER.
8/27/1941	21-32-14.	37.50	118.77	C	3.5		W OF BISHOP
9/ 2/1941	5-48--0.	38.57	122.45	C		F	MODERATE SIZE. IV AT ST. HELENA.
9/ 3/1941	1-37--0.	36.90	121.50	D			TINY SIZE.
9/12/1941	19-56--0.	36.77	121.45	C			TINY SIZE.
9/13/1941	20-59- 6.	35.90	116.80	C	3.0		SE OF LONE PINE.
9/14/1941	16-43-32.	37.57	118.73	B	6.0	F	OWENS VALLEY. FELT OVER AN AREA OF 30,000 SQUARE MILES. VI AT BENTON, COLUMBIA, COULTERVILLE, GROVELAND, INCLINE, OAKHURST, AND TUOLUMNE. V AT AUBERRY, BIG CREEK, CATHAY VALLEY, DELPIEDRA, DUNLAP, FRESNO, FRIANT, JAMESTOWN, KINGS CANYON NATIONAL PARK, LAKESHORE, LAWS, LONE PINE, MAMMOTH LAKES, PINE CREEK CANYON, PORTERVILLE, RAISEN, REDS MEADOW, SHAVER LAKE, AND SONORA, AND DYER AND MT. MONTGOMERY, NEVADA.
9/14/1941	16-54-58.	37.57	118.73	B	4.5	F	AFTERSHOCK OF 16-43-32.
9/14/1941	18-21-19.0	37.57	118.73	B	5.5	F	AFTERSHOCK OF 16-43-32. FELT OVER AN AREA OF 27,000 SQUARE MI. VI AT PINEDALE AND PINERIDGE. V AT ASH PEAK, BIG CREEK, BRECKENRIDGE, EL PORTAL KINGS CANYON NATIONAL PARK, PORTERVILLE, RAISIN, REEDLEY, AND RIVERDALE, AND MT. MONTGOMERY, NEVADA.
9/14/1941	18-39-12.	37.57	118.73	B	6.0	F	OWENS VALLEY. FELT OVER AN AREA OF

							36,000 SQUARE MILES. VI AT NORTH FORK AND YOSEMITE VALLEY. V AT BIG CREEK, BRECKENRIDGE, DUNLAP, EL PORTAL, KAWEAH, KINGS CANYON NATIONAL PARK, MADERA, MAMMOTH LAKES, NEWMAN, OAKHURST, O'NEALS, PINERIDGE, PORTERVILLE, AND RAISIN, AND DYER AND MT. MONTGOMERY, NEVADA.
9/14/1941	18-54-18.	37.57	118.73	B	4.0		AFTERSHOCK OF 18-39-12.
9/14/1941	21-16- 1.	37.57	118.73	B	5.0	F	AFTERSHOCK OF 18-39-12. FELT AT BIG CREEK
9/15/1941	4-43--0.	36.98	121.48	C		F	SMALL SIZE. III AT HOLLISTER.
9/17/1941	14-24--0.	37.38	121.68	B			MODERATE SIZE. ONE OF LARGER FORESHOCKS OF NEXT.
9/18/1941	7-33--0.	37.38	121.68	A	4.0	F	V AT ALVARADO, ALVISO, BERKELEY, BOULDER CREEK, BURLINGAME, COLMA, EL GRANADA, FELTON, HALF MOON BAY, HAYWARD, MILL VALLEY, MILPITAS, MT. HAMILTON, NEWARK, OLYMPIA, REDWOOD CITY, SAN FRANCISCO, SANTA CRUZ, SARATOGA, SOQUEL, AND SUNNYVALE.
9/22/1941	3-55-57.	37.57	118.73	B	3.5	F	OWENS VALLEY. FELT AT BISHOP AND HIGH SIERRA RANGER STATION.
9/24/1941	13-50--0.	37.70	121.80	D			TINY SIZE.
9/24/1941	18-34-25.	35.93	116.87	C	3.0		SE OF LONE PINE.
9/25/1941	9-50-59.	35.88	117.58	C	3.0		SE OF LONE PINE.
9/26/1941	1-55--0.	36.80	121.45	A		F	SMALL SIZE. IV AT HOLLISTER. ALSO FELT AT SALINAS.
9/26/1941	7- 7--0.	36.82	121.60	B			SMALL SIZE.
9/26/1941	20-25--0.	36.70	121.40	D			SMALL SIZE.
9/27/1941	19-48-37.	37.57	118.73	B	4.0		OWENS VALLEY AFTERSHOCK.
9/28/1941	15- 5-14.	37.57	118.73	B	4.0		OWENS VALLEY AFTERSHOCK.
10/ 3/1941	16-13- 8.	40.40	124.80	C	6.4	F	FELT OVER AN AREA OF 12,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA AND SOUTHWESTERN OREGON. VII AT EUREKA. VI AT FERNDALE, FIELDS LANDING, KORBEL, PEPPERWOOD, PUNTA GORDA, RIO DELL, ROCKPORT, AND UPPER MATTOLE. V AT ARCATA, BENBOW, BRICELAND, CAPE MENDOCINO, CARLOTTA, OYERVILLE, GARBERVILLE, HOLMES, HYAMPOM, KNEELAND, LOLETA, PETROLIA, AND WILDWOOD.
10/ 6/1941	6-59--0.	40.40	125.00	B	5.0		EUREKA AFTERSHOCK.
10/ 7/1941	20-16-20.	37.57	118.73	B	3.5		OWENS VALLEY AFTERSHOCK.
10/ 8/1941	10-11-47.	37.57	118.73	B	3.0		OWENS VALLEY AFTERSHOCK.
10/ 9/1941	2-26-11.	36.63	117.85	B	3.5		E OF LONE PINE.
10/ 9/1941	14-20-45.	37.57	118.73	B	3.5		OWENS VALLEY AFTERSHOCK.
10/11/1941	23-21--0.	37.18	122.27	C			TINY SIZE.
10/13/1941	7-24-51.0	37.57	118.73	B	3.5	F	OWENS VALLEY. FELT AT BISHOP.
10/14/1941	16-11--0.	39.40	119.60	D		F	FORESHOCK OF 16-32-0.
10/14/1941	16-32--0.	39.40	119.60	C		F	FELT STRONGLY AT LOYALTON, NORDEN, AND TRUCKEE, AND RENO, NEV. ALSO FELT AT BOCA AND DONNER SUMMIT AND VERDI, NEV.
10/15/1941	4-49- 0.	37.00	117.50	D	3.0		NE OF LONE PINE.
10/18/1941	10-37-54.	37.57	118.73	B	3.5	F	OWENS VALLEY. FELT AT BISHOP.
10/23/1941	4- 1-48.	37.57	118.73	B	3.5		OWENS VALLEY.
10/23/1941	20-44-31.	37.57	118.73	B	4.5	F	OWENS VALLEY. FELT AT DELPIEDRA.
10/24/1941	17-48-57.	37.57	118.73	B	4.0		OWENS VALLEY AFTERSHOCK.
10/25/1941	17- 8--0.	39.50	122.17	D		F	LAS PLUMAS AND WILLOWS.
10/26/1941	9-46--0.	37.80	122.20	D			TINY SIZE. NW OF HAYWARD.
10/26/1941	14-20--0.	37.05	121.68	C			TINY SIZE.
10/27/1941	0-42-22.	37.57	118.73	B	3.5	F	OWENS VALLEY. FELT AT BISHOP.
10/27/1941	6-59--0.	37.58	121.78	C			TINY SIZE.
11/ 4/1941	2- 9-28.0	37.57	118.73	B	4.0	F	FELT IN BISHOP.
11/ 4/1941	23-13--0.	37.20	122.30	D			TINY SIZE.

11/ 6/1941	10-32--0.	40.83	124.17	D		F	EUREKA, FERNDALE, PETROLIA.
11/ 6/1941	11-59--0.	36.60	121.20	D			TINY SIZE.
11/10/1941	14-56- 6.	37.57	118.73	C	3.0		OWENS VALLEY.
11/12/1941	5-33--0.	36.42	119.00	D		F	TULARE CO. FELT KAWEAH, SPRINGVILLE.
11/12/1941	12-34--0.	36.58	121.32	C			TINY SIZE.
11/15/1941	16-43- 5.	37.57	118.73	B	4.0		OWENS VALLEY.
11/17/1941	11-14--0.	36.76	121.40	C		F	TINY SIZE. FELT AT TRES PINOS.
11/19/1941	3-38--0.	40.20	124.30	C		F	SMALL SIZE. FELT AT CAPE MENDOCINO AND PETROLIA. FORESHOCKS AT 0218, 0228, AND 0312. AFTERSHOCK AT 0419.
11/19/1941	5-57--0.	37.05	121.55	C			SMALL SIZE.
11/20/1941	3-20--0.	36.87	121.23	C			SMALL SIZE.
11/20/1941	11-42--0.	36.72	121.50	C			SMALL SIZE.
11/21/1941	13- 8--0.	37.20	122.30	D			SMALL SIZE.
11/24/1941	10-51--0.	40.20	124.20	D		F	MODERATE SIZE. FELT AT CAPE MENDOCINO.
11/25/1941	14-45-25.	37.57	118.73	C	3.0		OWENS VALLEY.
11/26/1941	2-59--0.	36.58	121.27	C			SMALL SIZE.
11/26/1941	10-31-35.	37.37	118.08	C	3.5		E OF BISHOP.
12/ 7/1941	7-35--0.	41.00	123.50	D		F	ORLEANS, HOOPA, SALYER RANGER STATION.
12/ 8/1941	0-29-42.	36.00	121.00	D	3.5		NEAR KING CITY.
12/16/1941	19-48--0.	36.80	121.40	D		F	TINY SIZE. FELT AT GILROY.
12/18/1941	7-25--0.	37.53	121.48	A			SMALL SIZE.
12/18/1941	20-59- 0.	37.57	118.73	B	4.0		OWENS VALLEY.
12/22/1941	0-54- 9.	35.93	120.48	C	4.0	F	NEAR PARKFIELD. NOT RECORDED ON BERKELEY NETWORK.
12/25/1941	3-24--0.	36.92	122.28	B			SMALL SIZE.
12/31/1941	6-48-44.	37.57	118.73	B	5.5	F	OWENS VALLEY. FELT OVER AN AREA OF 28,000 SQUARE MILES. VI AT OWENS RIVER GORGE. V AT BENTON, FRESNO, KINGS CANYON NATIONAL PARK, LAWS, MIRAMONTE, TINEMAHA, AND YOSEMITE, AND DYER, NEVADA.
12/31/1941	8- 8-15.	37.57	118.73	B	4.0	F	AFTERSHOCK OF 6-48-44. OWENS RIVER GORGE.
12/31/1941	11- 2-25.	37.57	118.73	B	4.0	F	AFTERSHOCK OF 6-48-44. OWENS RIVER GORGE.
12/31/1941	11-14-57.	37.57	118.73	B	4.0	F	AFTERSHOCK OF 6-48-44. OWENS RIVER GORGE.
12/31/1941	12-20-15.0	37.57	118.73	B	4.0	F	AFTERSHOCK OF 6-48-44. OWENS RIVER GORGE.
12/31/1941	18- 5-44.	37.57	118.73	B	4.5	F	AFTERSHOCK OF 6-48-44. OWENS RIVER GORGE.
12/31/1941	20-30-58.	37.57	118.73	B	3.5		OWENS VALLEY.
1/ 1/1942	1- 2-21.	37.57	118.73	B	3.5		OWENS VALLEY.
1/ 1/1942	3-41- 1.	37.57	118.73	B	4.5		OWENS VALLEY.
1/ 1/1942	21-56-31.	37.57	118.73	B	3.0		OWENS VALLEY.
1/ 2/1942	15- 9- 8.	37.57	118.73	B	3.0		OWENS VALLEY.
1/ 3/1942	16- 0- 6.	37.57	118.73	C	2.5		OWENS VALLEY.
1/ 6/1942	0- 9-32.	37.57	118.73	C	3.5		OWENS VALLEY.
1/ 6/1942	8- 1-44.	37.57	118.73	C	3.5		OWENS VALLEY.
1/ 6/1942	9-20--0.	36.15	120.65	D		F	PRIEST VALLEY. RECORDED AT TINEMAHA.
1/ 6/1942	9-23--0.	36.15	120.65	D		F	PRIEST VALLEY. RECORDED AT TINEMAHA.
1/ 6/1942	13- 9-58.	37.57	118.73	C	3.5		OWENS VALLEY.
1/ 9/1942	20-23-10.	36.70	121.50	D	2.6		SW OF VINEYARD.
1/11/1942	20-27-56.	36.23	118.00	C	3.0		S OF LONE PINE.
1/12/1942	3-28-49.	36.23	118.00	C	3.0		S OF LONE PINE.
1/13/1942	20-10-26.	37.57	118.73	C	3.0		OWENS VALLEY.
1/14/1942	9-44-40.	36.65	121.22	B	4.2	F	FELT STRONGLY AT CHUALAR AND HOLLISTER. ALSO FELT AT BIG SUR, GONZALES AND PINNACLES. DEPTH ABOUT 5KM.
1/15/1942	11-47-54.	37.57	118.73	C	3.0		OWENS VALLEY.
1/15/1942	12-30--0.	40.25	124.10	D		F	UPPER MATTOLE.

1/15/1942	13-23-20.	36.25	118.00	C	3.0		
1/18/1942	3- 3-54.	36.67	121.17	B	3.8	F	IV AT KING CITY AND PINNACLES.
1/18/1942	7-17-17.	40.20	125.10	D	4.1	F	IV AT FERNDALE AND SCOTIA. FELT AT CAPE MENDOCINO AND PETROLIA.
1/19/1942	11-35--0.	36.40	121.25	D		F	PINNACLES.
1/18/1942	16-50--0.	36.40	121.25	D		F	PINNACLES.
1/19/1942	2- 5-19.	37.02	121.82	C	3.0		NORTH OF WATSONVILLE.
1/21/1942	19-16-41.	36.85	121.52	C	3.4		WEST OF HOLLISTER.
1/23/1942	11-11-31.	37.57	118.73	C	3.0		OWENS VALLEY.
2/ 1/1942	0-49- 9.	37.57	118.73	C	3.5		OWENS VALLEY.
2/ 4/1942	3-21-15.0	37.57	118.73	B	4.0	F	BISHOP.
2/ 4/1942	3-25-26.0	37.57	118.73	B	4.0	F	BISHOP.
2/ 4/1942	3-32- 3.0	37.57	118.73	B	4.0	F	BISHOP.
2/ 4/1942	3-47-12.	37.57	118.73	B	3.5		BISHOP.
2/ 4/1942	9- 9-24.	37.00	121.30	D	4.0	F	HOLLISTER.
2/ 4/1942	11- 5--0.	37.00	121.30	D		F	HOLLISTER.
2/11/1942	3- 4--0.	37.00	121.30	D		F	HOLLISTER.
2/11/1942	3- 9--0.	37.00	121.30	D		F	HOLLISTER.
2/11/1942	6-17-22.	37.57	118.73	C	3.0		OWENS VALLEY.
2/12/1942	3- 3-33.	36.92	121.68	C	3.3	F	III AT HOLLISTER.
2/12/1942	3- 7-38.	37.02	121.70	C	2.7	F	III AT HOLLISTER.
2/19/1942	18-33--0.	36.40	121.25	D		F	PINNACLES.
2/21/1942	0-57-29.	36.80	121.50	D	2.5		WEST OF HOLLISTER.
2/21/1942	1- 2- 0.	36.80	121.50	D	2.5		WEST OF HOLLISTER.
2/21/1942	9-35-15.	36.80	121.50	D	2.5		WEST OF HOLLISTER.
2/22/1942	8- 4- 4.	36.80	121.50	D	2.4		WEST OF HOLLISTER.
2/25/1942	16- 3-24.	38.40	118.50	D	3.5	F	HAWTHORNE, NEVADA.
2/25/1942	16-13-24.	38.40	118.50	D	4.0	F	HAWTHORNE, NEVADA.
2/26/1942	18-32-39.	37.57	118.73	B	4.0		OWENS VALLEY.
2/27/1942	1-22-50.	37.57	118.73	C	4.0		OWENS VALLEY.
3/ 1/1942	1-32-10.	37.57	118.73	C	3.0		OWENS VALLEY.
3/ 1/1942	3-59-20.	37.57	118.73	C	3.0		OWENS VALLEY.
3/ 2/1942	23-27- 2.	37.57	118.73	C	3.0		OWENS VALLEY.
3/ 6/1942	2- 1-12.	36.78	121.52	C	3.7	F	FELT IN PAJARO VALLEY.
3/ 6/1942	11- 0--0.	40.35	121.60	D		F	MINERAL.
3/ 8/1942	4-47- 6.	37.57	118.73	C	3.0		OWENS VALLEY.
3/ 9/1942	0- 5-36.	37.57	118.73	C	3.5		OWENS VALLEY.
3/20/1942	12-55-14.	37.57	118.73	C	3.0		OWENS VALLEY.
3/21/1942	17-10--0.	38.65	123.40	D		F	STEWARTS POINT.
3/22/1942	18-32-36.	36.80	121.50	C	3.3		WEST OF HOLLISTER.
3/25/1942	0- 0--0.	36.40	121.25	D		F	PINNACLES. LIGHT SHOCK.
3/31/1942	13-26-12.	36.25	118.08	C	3.5		S OF LONE PINE.
3/31/1942	14-21- 7.	36.72	121.25	C	3.3	F	IV AT HOLLISTER.
4/ 4/1942	14-10--0.	40.00	121.00	D		F	BUCKS LAKE, CARIBOU, PRATTVILLE. LIGHT.
4/ 7/1942	6- 9-29.	36.78	121.55	C	3.1		DEPTH ABOUT 5 KM.
4/ 7/1942	11- 3--0.	37.00	121.30	D		F	HOLLISTER.
4/ 7/1942	19- 3-18.	37.00	121.30	D	2.9		EAST OF GILROY.
4/ 8/1942	14-20-14.	36.60	121.30	A	4.0	F	IV AT GREENFIELD, PINNACLES AND SOLEDAD.
4/10/1942	7-26-30.	36.93	121.43	C	2.9		EAST OF GILROY.
4/11/1942	8-40-59.	36.75	121.32	B	4.0	F	IV AT HOLLISTER AND SOLEDAD.
4/11/1942	9-20--0.	36.65	121.65	D		F	SALINAS. LIGHT SHOCK.
4/13/1942	18-22-26.	37.38	121.75	C	2.8		NW OF MT. HAMILTON.

4/17/1942	12-34-36.	37.60	118.70	D	3.0		OWENS VALLEY.
4/18/1942	1-22-35.	36.80	121.20	D	3.4		NE OF VINEYARD.
4/21/1942	14-19- 0.	37.90	121.80	D	1.9		EAST OF CONCORD.
4/29/1942	1-26-40.	35.95	118.58	C	3.0		SW OF LONE PINE.
5/ 3/1942	18-12-10.	36.77	121.48	C	3.0		SW OF VINEYARD.
5/ 3/1942	20-22- 5.	37.37	121.73	A	2.5		DEPTH ABOUT 10 KM. NW OF MT. HAMILTON.
5/ 4/1942	23-20-24.	37.60	118.70	D	3.0		BISHOP.
5/ 5/1942	12-33--0.	37.25	122.00	D		F	LOS GATOS.
5/ 6/1942	22-46- 0.	37.60	118.70	D	3.5		BISHOP.
5/27/1942	4- 0--0.	37.25	122.00	D		F	COALINGUA. (BSSA, JULY 1942).
5/31/1942	16-38- 7.	37.97	121.67	B	3.2	F	IV AT WATSONVILLE.
5/31/1942	23-57-50.	37.20	121.70	D	2.3		NW OF GILROY.
6/ 5/1942	3-19-38.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.
6/ 5/1942	9-14-16.	37.57	118.73	D	3.0		NORTHERN OWENS VALLEY.
6/ 5/1942	12-33-25.	36.98	121.67	B	4.2	F	FELT OVER AN AREA OF 2,500 SQUARE MILES IN THE MONTEREY BAY AREA. V AT APTOS, BOULDER CREEK, WATSONVILLE. ALSO FELT AT BIG SUR, CARMEL, HOLLISTER, LAUREL, LOS GATOS, MARINA, MONTEREY, MORGAN HILL, SALINAS, SAN ANSELMO, SAN JOSE, SOQUEL, AND SOUTH SAN FRANCISCO.
6/ 9/1942	14-10--0.	37.00	121.30	D		F	HOLLISTER.
6/ 9/1942	22-51--0.	39.50	119.90	D		F	VI AT VERDI, NEVADA. V AT FALLON, RENO, AND STEAMBOAT, NEVADA.
6/10/1942	0- 5-12.	37.60	118.70	D	3.0		OWENS VALLEY.
6/18/1942	23-33- 2.	37.47	121.68	C	3.0	F	FELT SAN JOSE.
6/22/1942	22-13-51.	36.25	117.97	B	4.0	F	COSO JUNCTION (SOUTH HAIWEE).
6/22/1942	23-51- 3.	36.25	117.97	B	4.0	F	COSO JUNCTION (SOUTH HAIWEE).
6/22/1942	23-53-27.	36.25	117.97	C	3.5		COSO JUNCTION (SOUTH HAIWEE).
6/29/1942	21- 7-30.	35.60	120.80	D	4.0	F	IV AT CAMBRIA AND SAN LUIS OBISPO.
7/ 4/1942	8-52-25.	36.25	117.97	C	3.5	F	NEAR HAIWEE. FELT COSO JUNCTION.
7/ 5/1942	-0--0--0.	38.60	122.85	D		F	HEALDSBURG. FOUR SHOCKS. BSSA, OCT. 1942.
7/ 6/1942	21-11-40.	37.57	118.73	C	4.5	F	IV AT BISHOP.
7/ 8/1942	10- 5-50.	37.30	118.68	C	3.8		WEST OF BISHOP.
7/ 9/1942	12-23--0.	39.15	122.15	D		F	WILLIAMS, COLUSA CO.
7/10/1942	22-57--0.	39.20	119.75	D		F	CARSON CITY, NEVADA.
7/13/1942	5-12--0.	39.15	122.15	D		F	WILLIAMS.
7/14/1942	16-42--0.	39.15	122.10	D		F	WILLIAMS AND COLUSA.
7/16/1942	9-26-30.	37.18	122.22	B	2.8		SW OF SAN JOSE.
7/16/1942	9-29--0.	37.20	122.40	D		F	PIGEON POINT LIGHT STA. (PESCADERO).
7/19/1942	10-42- 7.	36.40	121.10	D	1.6		SW OF LLANADA.
7/24/1942	9- 3-53.	36.25	117.97	C	3.5		HAIWEE.
8/ 4/1942	1- 2- 5.	37.15	121.40	C	2.7		FORESHOCK OF QUAKE AT 2105.
8/ 4/1942	21- 5-53.	37.15	121.40	B	2.9		NE OF GILROY.
8/ 7/1942	2- 2-26.	37.57	121.67	B	2.5		SE OF LIVERMORE.
8/ 8/1942	22-30-27.	36.90	121.28	C	3.5	F	IV AT HOLLISTER.
8/ 9/1942	1-17-47.	36.90	121.28	B	2.2	F	AFTERSHOCK OF QUAKE ON AUGUST 8 AT 2230. III IN HOLLISTER. DEPTH ABOUT 10 KM.
8/10/1942	11-50-46.	37.90	122.57	C	2.8	F	IV IN MILL VALLEY, III IN SAN FRANCISCO.
8/11/1942	5-30--0.	40.50	121.65	D		F	V AT MANZANITA LAKE.
8/14/1942	15-14-13.	37.98	121.88	A	3.6	F	IV AT ANTIOCH.
8/18/1942	21-55-24.	38.60	118.50	D	5.0	F	FELT OVER AN AREA OF 7,000 SQUARE MILES NEAR HAWTHORNE, NEVADA. VI AT MASON AND MT. MONTGOMERY, NEVADA. IV AT BENTON, BODIE, AND BRIDGEPORT, AND FALLON, HAWTHORNE, AND YERINGTON, NEVADA.
8/20/1942	11-11-48.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.

8/20/1942	12- 9-38.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.
8/20/1942	15-26-31.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.
8/21/1942	23-36-41.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.
8/28/1942	6-13-33.	37.95	121.73	B	2.9		EAST OF ANTIOCH.
8/31/1942	5-27-52.	36.90	121.70	D	3.2	F	PAJARO VALLEY. (BSSA, OCT. 1942.)
9/ 2/1942	22- 3--0.	38.95	118.80	D		F	SCHURZ, NEVADA.
9/ 7/1942	19-50-11.	37.57	118.73	C	4.0		NORTHERN OWENS VALLEY.
9/12/1942	17-49- 9.	36.78	121.47	B	3.4	F	IV AT HOLLISTER.
9/15/1942	16-36-33.	36.13	122.18	B	3.0		SW OF KING CITY.
9/19/1942	0-13-50.	37.47	121.75	B	2.5		SOUTH OF LIVERMORE.
9/23/1942	9- 6-22.	37.27	121.75	C	1.7		SW OF MT. HAMILTON.
9/25/1942	7-19--0.	37.90	122.25	D		F	5 MI. FROM UNIV. OF CALIFORNIA CAMPUS, BERKELEY. FELT IN BERKELEY AND EL CERRITO.
9/28/1942	8-37--0.	39.15	122.15	D		F	IV AT WILLIAMS. (BSSA, OCT. 1942).
9/29/1942	8-29--0.	39.25	122.15	D		F	V AT WILLIAMS AND WILLOWS. FELT ALSO AT MONTICELLO AND MERIDAN. (BSSA, OCT. 1942)
10/ 4/1942	17-49-54.	38.07	120.27	C	3.8		EAST OF SONORA.
10/ 4/1942	23-24-13.	36.93	121.78	C	2.1		NEAR WATSONVILLE.
10/ 6/1942	19-45--0.	37.75	119.75	D		F	CRANE FLAT, YOSEMITE VALLEY, AND MATHER.
10/ 7/1942	2-31-32.	36.25	117.97	C	3.0		S OF LONE PINE.
10/ 8/1942	2-30-45.	36.87	120.65	C	3.5		SOUTH OF DOS PALOS.
10/11/1942	23-48-23.	36.48	121.40	C	1.9		FORESHOCK OF QUAKE ON OCTOBER 15 AT 1353.
10/13/1942	19-45--0.	37.65	119.85	D		F	EL PORTAL.
10/15/1942	12- 9--0.	39.00	120.00	D		F	CAMP RICHARDSON AND TRUCKEE.
10/15/1942	13-53-56.	36.48	121.40	B	4.3	F	IV AT BIG SUR, GONZALES, GREENFIELD, HOLLISTER, SALINAS AND SOLEDAD.
10/16/1942	10- 7-27.	36.25	117.97	C	4.0		NEAR HAIWEE.
10/17/1942	6-10--0.	38.50	122.50	D		F	ST. HELENA (POPE VALLEY).
10/18/1942	8- 0--0.	36.00	121.00	D		F	CAMBRIA.
10/19/1942	12- 1-42.	36.00	121.00	D		F	V AT CAMBRIA.
10/20/1942	10-25--0.	36.00	121.00	D		F	V AT CAMBRIA.
10/22/1942	2-28-19.	36.92	121.53	C	3.3		SOUTH OF GILROY.
10/22/1942	12- 0--0.	39.25	120.00	D		F	LAKE TAHOE. FELT AT TRUCKEE.
10/26/1942	1- 9- 1.	36.40	121.60	D	1.8		DEPTH ABOUT 12 KM.
10/29/1942	17- 6-18.	37.57	118.73	D	3.5		OWENS VALLEY.
10/29/1942	19-25-18.	37.57	118.73	C	3.0		OWENS VALLEY.
10/30/1942	3-55-19.	37.57	118.73	C	4.0	F	NORTHERN OWENS VALLEY. FELT AT YOSEMITE.
10/31/1942	10-51-13.0	35.77	120.25	C	4.0	F	NEAR PARKFIELD. FELT AT PARKFIELD, PASO ROBLES AND SAN MIGUEL.
10/31/1942	12-14-37.	36.57	121.30	C	3.1		FORESHOCK OF QUAKE AT 12-56-10.
10/31/1942	12-56-10.	36.57	121.30	B	3.7		SE OF VINYARD.
11/ 2/1942	21-55--0.	40.35	123.85	D		F	DYERVILLE. SLIGHT SHOCK.
11/ 3/1942	3-56-19.	37.57	118.73	C	3.5	F	NO. OWENS VALLEY. V BISHOP. III SANGER.
11/13/1942	20- 0-10.	37.77	121.75	C	2.6		PROBABLY A BLAST.
11/18/1942	20-20--0.	39.90	121.50	D		F	VI STIRLING CITY. ALSO FELT CHICO, FEATHER RIVER CANYON, LAS PLUMAS, AND STORRIE.
11/18/1942	20-35--0.	39.90	121.50	D		F	SAME FELT REPORTS AS 20-20-0.
11/21/1942	3-35-47.	37.90	122.60	D	2.5		NEAR MT. TAMALPIAS.
11/27/1942	21-30--0.	39.90	120.90	D		F	CARIBOU AND BUTTE VALLEY.
12/ 3/1942	9-44-42.	39.70	119.30	D	5.5	F	NEAR WADSWORTH, NEVADA. FELT OVER AN AREA OF 24,000 SQUARE MILES. VI AT FALLON, FERNLEY, AND RENO, NEVADA. V AT EMIGRANT GAP, MARYSVILLE, AND NEVADA CITY, AND AT LOVELOCK, MINDEN, AND STEAMBOAT,

						NEVADA. IV AT ALLEGHANY, BRIDGEPORT, CHILCOAT, COLOMA, DOWNIEVILLE, FORESTHILL, GRASS VALLEY, GRIZZLY FLATS, JACKSON, PLACERVILLE, QUINCY, AND SACRAMENTO, AND AT CARSON CITY, MASON, NIXON, SMITH, STILLWATER, SULPHUR, AND WINNEMUCCA, NEVADA
12/ 5/1942	18-52- 7.	37.57	118.73	B	4.5	NORTHERN OWENS VALLEY.
12/ 6/1942	16-57-49.	35.93	120.48	C	3.5	PARKFIELD.
12/ 7/1942	0- 6-45.	36.90	122.00	D	2.4	SOUTH OF SANTA CRUZ.
12/ 9/1942	3-43-39.	35.78	118.38	C	3.0	SW OF LONE PINE.
12/10/1942	4-30-47.	37.57	118.73	C	3.0	OWENS VALLEY.
12/12/1942	8-59-54.	37.60	118.70	D	2.5	F BISHOP.
12/13/1942	10-10--0.	38.80	119.80	D		F MARKLEEVILLE. SLIGHT SHOCK.
12/14/1942	11-26-42.	37.43	121.58	B	2.3	NE OF MT. HAMILTON.
12/14/1942	12-13-51.	38.70	119.60	D	4.0	F IV AT MARKLEEVILLE AND MINDEN, NEVADA.
12/17/1942	15- 7-43.	38.87	119.90	C	5.1	F V AT BRIDGEPORT, MARKLEEVILLE AND TOPAZ. IV AT GRIZZLY FLATS, JACKSON AND SONORA.
12/17/1942	19-59- 6.	38.87	119.90	D		F AFTERSHOCK OF 15-07-43.
12/17/1942	20- 3--0.	38.87	119.90	D		F AFTERSHOCK OF 15-07-43.
12/17/1942	21-46-12.	38.87	119.90	D		F AFTERSHOCK OF 15-07-43.
12/18/1942	0-14-45.	36.83	121.53	B	3.4	F IV AT HOLLISTER.
12/18/1942	5-48--0.	39.00	119.50	D		F NEAR SWEETWATER, NEVADA. FELT STRONGLY IN CARSON VALLEY AND TO THE S AND E OF RENO, NEVADA.
12/19/1942	0-47-56.	38.93	119.90	C	2.9	F MARKLEEVILLE. TWO SHOCKS.
12/20/1942	5-47-39.	38.72	119.73	B	4.5	F FELT AT MARKLEEVILLE.
12/20/1942	11-12-42.	38.80	119.80	D		F MARKLEEVILLE. STRONG SHOCK.
12/21/1942	6- 0--0.	38.80	119.80	D		F MARKLEEVILLE.
12/21/1942	6-10--0.	38.80	119.80	D		F MARKLEEVILLE.
12/22/1942	5-58--0.	38.53	120.75	D		F NEAR JACKSON.
12/22/1942	6- 2-36.	38.53	120.75	D		F NEAR JACKSON.
12/22/1942	6- 2-36.	38.80	119.80	D		F MARKLEEVILLE.
12/27/1942	23-26-24.	36.78	120.79	C	3.4	NE OF LLANADA.
12/28/1942	18-10--0.	37.90	122.50	D		F MILL VALLEY.
12/29/1942	18-18-14.	37.72	122.12	A	4.3	F FELT OVER AN AREA OF 2,200 SQUARE MILES. VI AT COWELL, SAN LEANDRO. V AT BERKELEY, HALF MOON BAY, OAKLAND, ORINDA, SAN FRANCISCO. IV AT BURLINGAME, HAYWARD, LAFAYETTE, MARTINEZ, MILL VALLEY, MOSS BEACH, PETALUMA, REDWOOD CITY, SAN BRUNO, SAN MATEO, WALNUT CREEK.
1/ 1/1943	22-24-17.	37.57	118.73	C	4.0	NORTHERN OWENS VALLEY.
1/14/1943	1- 0- 2.	38.60	119.20	D	3.6	SOUTH OF YERINGTON, NEVADA.
2/ 4/1943	21-22-54.	36.20	118.50	D	3.0	F KERN RIVER, W OF HAIWEE. IV IN GIANT FOREST, SEQUOIA NATIONAL PARK.
2/ 6/1943	8-47-19.	38.68	119.65	C	4.3	NW OF COLEVILLE.
2/13/1943	23-30-59.	36.02	117.95	C	2.5	S OF LONE PINE.
2/18/1943	14-53-19.	37.57	118.73	C	4.0	NORTHERN OWENS VALLEY.
2/25/1943	20-28-25.	36.25	117.97	C	3.5	S OF LONE PINE.
2/26/1943	2- 1-50.	36.25	117.97	C	3.5	S OF LONE PINE.
2/27/1943	11-34-23.	36.75	121.00	C	2.9	NORTH OF LLANADA.
2/29/1943	5-25--0.	39.55	119.80	D		F RENO, NEVADA. SHARP SHOCK.
3/ 4/1943	22-54-15.	36.97	118.25	C	3.0	S OF BISHOP.
3/10/1943	18- 5-22.	37.37	121.45	B	3.1	EAST OF MT. HAMILTON.
3/11/1943	1-13-16.	39.20	123.45	C	3.7	F IV AT COMPTCHE, POTTER VALLEY AND STONYFORD. II IN UKIAH.
3/11/1943	15- 2--0.	36.15	117.95	D		F NEAR HAIWEE. THREE TO SIX SHOCKS PER DAY REPORTED FOR REMAINDER OF MARCH BY OBSERVER NEAR OLANCHA.
3/12/1943	20-18--0.	36.12	117.95	D		F NEAR HAIWEE. FELT NEAR OLANCHA.

3/13/1943	3-11-12.	36.88	121.32	C	2.9		NE OF HOLLISTER.
3/16/1943	9-59--0.	36.12	117.95	D		F	NEAR HAIWEE. FELT NEAR OLANCHA.
3/19/1943	22- 8-40.	38.80	121.10	D	3.9		NEAR AUBURN.
3/23/1943	20-57--0.	36.12	117.95	D		F	NEAR HAIWEE. FELT NEAR OLANCHA. DURING REMAINDER OF MARCH, 149 TREMORS RECORDED AT HAIWEE.
3/26/1943	3-50-44.	36.15	117.95	C	3.5	F	NEAR HAIWEE. FELT AT OLANCHA.
3/28/1943	5-52-45.	37.63	121.87	B	2.8		FORESHOCK OF QUAKE ON MARCH 29 AT 1145.
3/29/1943	10-28-20.	36.13	117.97	C	2.5	F	NEAR HAIWEE. FELT AT OLANCHA.
3/29/1943	11-33--0.	37.63	121.87	D		F	PLEASANTON.
3/29/1943	11-45-55.	37.63	121.87	A	4.2	F	IV IN EL GRANADA AND PLEASANTON.
3/29/1943	11-55--0.	37.63	121.87	D		F	EL GRANADA.
3/29/1943	12- 4--0.	37.63	121.87	D		F	PLEASANTON.
3/29/1943	18-18--0.	36.15	117.95	D		F	NEAR HAIWEE. FELT NEAR OLANCHA.
3/30/1943	0- 0-47.	39.30	119.40	D	4.2		EAST OF VIRGINIA CITY, NEVADA.
3/30/1943	21- 7-28.	39.43	120.40	C	5.3	F	FELT WIDELY IN THE NORTHERN SIERRA NEVADA. V AT BLUE CANYON, TRUCKEE AND STEWART, NEVADA. IV AT EMIGRANT GAP, MARKLEEVILLE, NEVADA CITY AND CARSON CITY, MINDEN AND RENO, NEVADA. III AT BIJOU, COLUSA, LAS PLUMAS, SACRAMENTO, SODA SPRINGS AND STEAMBOAT, NEVADA. II AT MARYSVILLE AND SIERRA CITY.
3/31/1943	7- 6- 9.	37.68	121.85	B	3.6		NW OF LIVERMORE.
4/ 1/1943	21- 6--0.	39.35	120.15	D		F	TRUCKEE.
4/ 4/1943	15-48-45.	36.13	117.97	C	3.5		S OF LONE PINE.
4/ 4/1943	15-51-50.	36.13	117.97	C	3.5		S OF LONE PINE.
4/ 5/1943	6-24-48.	37.72	121.68	C	2.2		EAST OF LIVERMORE.
4/ 7/1943	0-15- 1.	37.65	121.78	B	3.4		WEST OF LIVERMORE.
4/ 8/1943	0-13- 4.	37.68	121.80	B	3.0		WEST OF LIVERMORE.
4/ 9/1943	3-17-18.	36.75	121.13	C	2.9		EAST OF VINEYARD.
4/11/1943	2-16-29.	37.70	121.78	B	2.5		WEST OF LIVERMORE.
4/12/1943	21-20-42.	37.68	121.77	B	2.9		WEST OF LIVERMORE.
4/15/1943	12-28-11.	37.68	121.77	B	3.2		FORESHOCK OF QUAKE AT 1531.
4/15/1943	13-23--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	15-23- 4.	37.68	121.77	A	4.0		LARGE FORESHOCK OF QUAKE AT 1531.
4/15/1943	15-31- 2.	37.68	121.77	A	4.1	F	LARGEST OF SERIES ON 4/15/43. FELT OVER 2,000 SQUARE MILES IN WEST CENTRAL CALIFORNIA. V TRACY. IV BYRON, LAFAYETTE, MOSS BEACH, NEWARK, SAN FRANCISCO, STOCKTON, VERNALIS, WALNUT CREEK.
4/15/1943	15-32--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	15-35--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	15-39--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	15-50--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	16- 3--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/15/1943	17-33-30.	38.35	122.00	D		F	VACAVILLE.
4/15/1943	18- 0--0.	37.65	121.75	D		F	LIVERMORE VALLEY. SHARP SHOCK.
4/15/1943	18- 0- 8.	37.90	121.70	D		F	BRENTWOOD. SLIGHT SHOCK.
4/16/1943	1- 8--0.	37.65	121.75	D		F	LIVERMORE VALLEY. LIGHT SHOCK.
4/17/1943	19-59- 1.	36.82	121.47	C	3.2		DEPTH ABOUT 15 KM.
4/18/1943	7-48--0.	39.35	120.15	D		F	TRUCKEE.
4/20/1943	2- 0-19.	37.65	121.85	C	2.2		WEST OF LIVERMORE.
4/21/1943	2-18-41.	36.87	120.87	C	3.2		NE OF LLANADA.
4/21/1943	9- 1-22.	36.63	121.08	C	3.6		DEPTH ABOUT 6 KM.
4/21/1943	17-12-53.	37.56	121.75	D		F	LIVERMORE.
4/21/1943	23-29- 0.	37.56	121.75	D		F	LIVERMORE.
4/21/1943	23-39-44.	37.68	121.72	A	4.2	F	IV IN DUBLIN, NEWARK, LIVERMORE,

							PLEASANTON AND SAN FRANCISCO.
4/21/1943	23-58-46.	37.56	121.75	D		F	LIVERMORE.
4/24/1943	1-12-12.	36.00	117.60	C	3.5		SE OF LONE PINE.
4/24/1943	5- 3-15.	36.00	117.60	C	3.0		SE OF LONE PINE.
4/26/1943	11-54- 0.	37.62	121.78	A	4.1	F	V AT DUBLIN, LIVERMORE, MORAGA, AND NILES.
							IV AT ALVARADO, HOLT, DIABLO, AND RIO VISTA.
4/26/1943	12- 2-58.	37.56	121.75	D		F	IV AT DECOTO, LIVERMORE, PLEASANTON.
4/26/1943	12-15--0.	37.56	121.75	D		F	LIVERMORE.
4/26/1943	15-40--0.	38.15	121.60	D		F	ISLETON.
4/26/1943	18-24--0.	37.56	121.75	D		F	LIVERMORE.
4/29/1943	6-11-29.	37.65	121.75	D		F	LIVERMORE.
4/29/1943	8- 9--0.	37.65	121.75	D		F	LIVERMORE.
5/ 1/1943	2-52--0.	37.65	121.75	D		F	V AT LIVERMORE.
5/ 1/1943	5- 0--0.	39.15	121.10	D		F	GRASS VALLEY. (BSSA, JULY 1943).
5/ 5/1943	11-49--0.	37.65	121.75	D		F	LIVERMORE.
5/ 5/1943	18- 7--0.	37.65	121.75	D		F	LIVERMORE.
5/ 6/1943	5- 5--0.	39.60	120.75	D		F	SIERRA CITY.
5/ 6/1943	6- 3--0.	37.65	121.75	D		F	LIVERMORE.
5/ 7/1943	2- 1- 4.	36.60	121.10	D	3.5		WEST OF LLANADA.
5/ 8/1943	9-30--0.	37.65	121.75	D		F	LIVERMORE.
5/ 8/1943	10-20--0.	37.65	121.75	D		F	LIVERMORE.
5/ 8/1943	12-29-39.	37.73	121.70	B	3.4	F	V AT LIVERMORE. IV AT HAYWARD, HOLT AND
							MILPITAS. III AT BANTA, CENTERVILLE, AND SUNOL.
5/ 8/1943	13-30--0.	37.65	121.75	D		F	LIVERMORE.
5/17/1943	19-45--0.	37.65	121.75	D		F	LIVERMORE.
5/19/1943	12- 4-14.	36.90	121.40	D	3.0		NE OF HOLLISTER.
5/23/1943	11-38--0.	40.60	124.25	D		F	NEAR FERNDALE. IV AT BRICELAND. III AT
							FERNDALE, SCOTIA AND UPPER MATTOLE.
5/27/1943	2-41-20.	35.95	116.45	C	3.0		SE OF LONE PINE.
5/27/1943	6-10- 1.	37.72	121.75	C	2.8		NORTH OF LIVERMORE.
5/29/1943	4-57-50.	37.67	121.80	C	2.7	F	IV AT LIVERMORE.
5/30/1943	1- 4- 9.	37.67	121.80	C	3.7	F	IV AT LIVERMORE.
5/30/1943	7-50-54.	36.13	117.97	C	4.0	F	IV AT HAIWEE.
5/31/1943	20-16-53.	37.38	118.60	C	4.5	F	VI AT BISHOP. V AT OLANCHA AND TUNGSTEN
							CITY. IV AT BENTON, BIGPINE, DUNLAP, AND KINGS CANYON NATIONAL PARK.
6/ 4/1943	2-19--0.	39.40	123.35	D		F	NNE OF WILLITS.
6/ 4/1943	5-10--0.	39.40	123.35	D		F	NNE OF WILLITS.
6/ 4/1943	9-50--0.	39.40	123.35	D		F	NNE OF WILLITS.
6/ 4/1943	11-53--0.	39.40	123.35	D		F	NNE OF WILLITS.
6/ 8/1943	8-56--0.	36.60	121.90	D		F	IV AT MONTEREY. POSSIBLY GUN FIRE.
6/10/1943	5-55-27.	37.63	121.83	C	2.5		WEST OF LIVERMORE.
6/22/1943	15-31-21.	37.53	118.67	C	4.0		NORTHERN OWENS VALLEY.
6/22/1943	18-50- 7.	37.98	121.23	C	2.4		NEAR STOCKTON.
6/25/1943	17- 0--0.	40.20	123.80	D		F	III 5 MI. S OF MIRANDA.
6/29/1943	2-50-53.	36.50	121.10	D	3.1		SW OF LLANADA.
6/29/1943	4-54-23.	37.73	121.70	B	3.4	F	IV LIVERMORE. 36TH OF SERIES BEGUN MARCH.
6/30/1943	15-15-41.	37.75	122.20	D		F	OAKLAND HILLS.
7/ 5/1943	13-13-13.	37.95	121.83	C	2.9		SOUTH OF ANTIOCH.
7/ 5/1943	16-30-29.	36.38	121.83	C	3.9		SOUTH OF SALINAS.
7/ 6/1943	13-35-29.	37.87	121.87	B	3.2		SE OF CONCORD.
7/ 6/1943	21- 5--0.	37.65	121.75	D		F	LIVERMORE.
7/15/1943	0-44-42.	36.00	120.15	D		F	NEAR AVENAL.

7/17/1943	13- 2--0.	37.15	118.35	D		F	BIGPINE POWERHOUSE NO. 3.
7/22/1943	0-10--0.	39.35	123.25	D		F	IV AT UKIAH AND REDWOOD VALLEY.
7/24/1943	8-12-30.	36.23	118.00	B	3.0		HAIWEE.
7/27/1943	3- 4- 5.	37.67	120.75	C	3.5		EAST OF OAKDALE.
8/ 3/1943	18-46- 1.	37.30	121.20	D	2.9		EAST OF MT. HAMILTON.
8/ 4/1943	20-50- 5.	37.65	121.75	D		F	LIVERMORE. LIGHT SHOCK.
8/ 4/1943	21-17-46.	37.65	121.75	D		F	LIVERMORE. LIGHT SHOCK.
8/ 9/1943	5-23--0.	38.20	118.20	D		F	FORESHOCK OF 5-30-04.
8/ 9/1943	5-30- 4.	38.20	118.20	C	5.5	F	NEAR FILBEN, NEVADA. FELT OVER AN AREA OF 34,000 SQUARE MILES. VI AT BASALT, DYER, AND FALLON, NEVADA. V AT KEELER AND MIRAMONTE, CALIF., AND GOLDFIELD AND SCHURZ, NEV. IV WIDELY IN CALIF. AND NEV.
8/ 9/1943	6-27- 0.0	38.20	118.20	D		F	AFTERSHOCK OF 5-30-04. FELT AT BISHOP BRIDGEPORT AND LEEVINING
8/ 9/1943	7-24- 0.0	38.20	118.20	D		F	AFTERSHOCK OF 5-30-04.
8/ 9/1943	11-17- 0.0	36.60	118.10	D		F	LONE PINE.
8/10/1943	4-42-40.0	37.87	117.65	C	3.5	F	AFTERSHOCK OF 5-30-04.
8/13/1943	4-49--0.	37.65	121.75	D		F	IV AT LIVERMORE.
8/18/1943	0-30-16.	35.77	116.52	C	3.5		E OF CHINA LAKE.
9/ 2/1943	1- 6-20.	36.93	121.63	C	2.5		DEPTH ABOUT 5 KM.
9/ 3/1943	23-26- 9.	37.70	120.90	D	2.9		NE OF MODESTO.
9/ 6/1943	8-30--0.	40.60	124.25	D		F	FERNDALE.
9/11/1943	17-30--0.	40.50	123.10	D		F	SCOTIA.
9/13/1943	12-40--0.	35.65	120.65	D		F	PASO ROBLES. POSSIBLY GUN FIRE.
9/13/1943	22-10-19.	37.47	121.78	C	2.6		DEPTH ABOUT 12 KM.
9/14/1943	15-46-24.	39.50	120.25	D		F	SIERRAVILLE.
9/15/1943	10-57-33.	36.02	117.93	C	3.0		S OF LONE PINE.
9/15/1943	12-38- 2.	36.02	117.93	C	3.0		S OF LONE PINE.
9/16/1943	0-16-11.	36.02	117.93	C	4.0		NEAR HAIWEE.
9/16/1943	0-47-19.	36.02	117.93	C	3.0		NEAR HAIWEE.
9/16/1943	7-52--0.	36.02	117.93	C	4.5	F	NEAR HAIWEE. IV AT TRONA.
9/16/1943	8-13-36.	36.02	117.93	C	3.0		NEAR HAIWEE.
9/17/1943	20-43-41.	36.02	117.93	C	2.5		NEAR HAIWEE.
9/19/1943	9-53-30.	37.40	121.33	C	2.4		EAST OF MT. HAMILTON.
9/20/1943	6-20-24.	36.02	117.93	C	3.0		NEAR HAIWEE.
9/22/1943	20-16- 4.	36.02	117.93	C	2.5		NEAR HAIWEE.
9/24/1943	13- 0--0.	36.65	121.65	D		F	SALINAS.
9/26/1943	17-48-26.	37.50	121.73	B	3.5	F	IV AT SAN JOSE.
10/ 2/1943	6-56-41.	40.50	124.60	D	4.6	F	IV AT FERNDALE. FELT ALSO AT FORTUNA AND CAPE MENDOCINO.
10/ 5/1943	0-17--0.	37.75	122.50	D		F	SAN FRANCISCO.
10/ 5/1943	20-20--0.	40.60	124.25	D		F	FERNDALE. ALSO FELT UPPER MATTOLE.
10/14/1943	5-50-15.	39.25	122.40	C	3.6	F	IV AT MAXWELL AND WILLIAMS. III AT GRIDLEY AND OROVILLE.
10/14/1943	22-26-25.	39.28	122.30	C	3.7	F	V AT COLUSA. IV AT GRIDLEY AND MAXWELL.
10/21/1943	12- 2-51.	36.02	117.93	C	2.5		NEAR HAIWEE.
10/22/1943	12- 0--0.	36.00	120.90	D		F	SAN ARDO. TWO SHOCKS.
10/26/1943	4-50-33.	37.43	121.68	B	4.9	F	CALAVERAS FAULT, 4 TO 5 MI. NW OF MT. HAMILTON. FELT OVER AN AREA OF 20,000 SQUARE MILES. VI AT ALVISO, BOULDER CREEK, CASTROVILLE, CUPERTINO, DECOTO, HALF MOON BAY, LA HONDA, LOS GATOS, PALO ALTO, MILPITAS, MOUNTAIN VIEW, SAN GREGORIO, SAN JOSE, SAN MATEO, SAN MARTIN, SANTA CRUZ, SAUSALITO, SUNNYVALE, TRACY, VALLEJO, AND WATSONVILLE. V IN 33 ADDITIONAL CITIES. DEPTH OF FOCUS, ABOUT 12KM.

10/26/1943	11-58-57.	39.20	122.70	D	3.8	F	IV AT LAKEPORT, POTTER VALLEY, UKIAH, AND UPPER LAKE.
10/30/1943	13- 8-28.	37.97	121.77	C	3.0		EAST OF ANTIOCH.
10/31/1943	17-54- 6.	35.80	120.40	D	3.5		PARKFIELD.
10/31/1943	20- 0--0.	36.40	121.00	D		F	LONEOAK.
11/ 3/1943	4-18-50.	37.57	118.73	C	3.5		LONG VALLEY.
11/ 3/1943	4-23-39.	37.57	118.73	C	4.0		LONG VALLEY.
11/ 8/1943	11-33-46.	36.00	119.92	C	3.0	F	KETTLEMAN HILLS. FELT AVENAL.
11/11/1943	10-10--0.	40.50	124.00	D		F	DYERVILLE, EUREKA, FERNDALE, SCOTIA, AND UPPER MATTOLE.
11/14/1943	4-45-48.	38.20	119.00	D	3.0	F	FELT AT TOWN AND DAM OF BRIDGEPORT.
11/14/1943	18-29--0.	39.25	122.20	D		F	NEAR COLUSA.
11/14/1943	22- 3--0.	39.50	122.15	D		F	FELT AT WILLOWS.
11/15/1943	5-36-28.	39.22	122.23	C	4.0	F	LARGEST OF SERIES OF SHOCKS NEAR COLUSA. FELT OVER AREA OF 5,000 SQUARE MILES. V AT COLUSA AND OROVILLE. IV AT BUTTE CITY, DUNNIGAN, MAXWELL, MERIDAN, SITES, WILLIAMS, WILLOWS, AND YUBA CITY.
11/15/1943	6-59--0.	39.25	122.20	D		F	NEAR COLUSA.
11/16/1943	6-15-24.	39.23	122.18	C	3.8	F	VI STONYFORD. V COLUSA AND OROVILLE. IV BUTTE CITY, CHICO, LAS PLUMAS, MAXWELL, MERIDAN, SITES, WILLIAMS, AND YUBA CITY.
11/16/1943	11-25--0.	39.25	122.20	D		F	WILLIAMS. FOUR SHOCKS REPORTED.
11/16/1943	18-12--0.	39.25	122.20	D		F	IV AT BUTTE CITY, COLUSA, MAXWELL, SITES, AND WILLIAMS.
11/16/1943	21-38-47.	37.78	122.12	B	3.6	F	VI SAN LEANDRO. V OAKLAND AND CENTERVILLE. IV SAN RAMON, DECOTO, DIABLO, HAYWARD, AND PLEASANTON.
11/17/1943	7-12--0.	39.25	122.20	D		F	COLUSA.
11/23/1943	13-40-39.	37.67	121.85	C	2.5		WEST OF LIVERMORE.
11/30/1943	21-57-18.	36.30	120.50	D	4.0		NEAR COALINGA.
12/ 1/1943	4-51--0.	36.50	121.10	D		F	SAN BENITO.
12/ 4/1943	20-13-43.	39.18	122.20	C	4.0	F	IV AT COLUSA, MERIDIAN AND WILLOWS.
12/ 8/1943	3-43-49.	37.10	121.07	C	3.5		SOUTH OF GUSTINE.
12/17/1943	0-19-25.	37.10	118.27	C	4.0	F	NEAR TINEMAHA. FELT AT BIGPINE.
12/17/1943	3-54-35.	37.10	118.27	C	3.0	F	BIGPINE AND TINEMAHA RESERVOIR.
12/17/1943	4-38- 0.	37.10	118.27	C	4.0	F	IV AT BIGPINE AND TINEMAHA RESERVOIR.
12/18/1943	11-34- 0.0	36.65	118.15	D		F	INDEPENDENCE.
12/19/1943	1-52-28.	37.68	121.82	A	3.1	F	LIVERMORE.
12/20/1943	0-57-16.0	37.73	121.68	B	3.0	F	LIVERMORE.(BSSA, JAN. 1944).
12/20/1943	1-45--0.	37.65	121.90	D		F	PLEASANTON.
12/21/1943	6-11-23.	37.77	122.58	C	2.5		WEST OF SAN FRANCISCO.
12/30/1943	8-30--0.	40.15	120.90	D		F	GREENVILLE.
1/10/1944	14-39--0.	40.35	121.60	D		F	MINERAL.
1/11/1944	4-55--0.	40.35	121.60	D		F	MINERAL.
1/11/1944	5-52--0.	40.35	121.60	D		F	MINERAL.
1/12/1944	15- 2-40.	40.30	124.90	D	5.1	F	V AT CAPE MENDOCINO, EUREKA AND FERNDALE. IV AT CUMMINGS, SCOTIA, UPPER MATTOLE, AND WESTPORT.
1/12/1944	23-30--0.	38.00	122.55	D		F	IV AT SAN ANSELMO.
1/15/1944	4-24--0.	40.50	124.20	D		F	IV AT FERNDALE AND UPPER MATTOLE.
1/16/1944	2-20-29.	40.30	125.10	D	5.1	F	V AT UPPER MATTOLE, IV AT FERNDALE.
1/17/1944	14-23--0.	40.35	121.60	D		F	MINERAL.
1/20/1944	0-29-10.	37.68	121.77	B	2.6		NORTH OF LIVERMORE. (BSSA, APRIL 1944.)
1/25/1944	12-26-51.	37.27	121.72	B	2.4		SW OF MT. HAMILTON.
1/27/1944	21-10-12.	37.35	121.90	D		F	SAN JOSE.
1/27/1944	23-11- 6.	37.38	121.67	B	3.2	F	SAN JOSE. DEPTH OF FOCUS ABOUT 10KM.

2/ 2/1944	11- 5-38.	36.87	120.90	C	3.6		NORTH OF LLANADA.
2/ 5/1944	9-24-32.	36.65	121.13	C	3.2		EAST OF VINEYARD.
2/15/1944	20-15-31.	37.62	122.02	B	2.0		SE OF HAYWARD.
2/17/1944	4-33-40.	37.82	122.05	B	3.1	F	5 MI. S OF BERKELEY. VI SAN LEANDRO. V ALAMEDA AND MORAGA. IV EMERYVILLE, HAYWARD, OAKLAND, SAN LORENZO, WALNUT CREEK.
2/21/1944	13- 0-11.	36.17	120.93	C	3.8		WEST OF PRIEST.
2/28/1944	10-46- 2.	37.57	118.73	C	3.4		OWENS VALLEY.
3/ 5/1944	19-37- 9.	37.40	121.70	B	2.6		DEPTH ABOUT 10 KM.
3/ 6/1944	21-32-16.	36.40	121.25	C	3.4		NE OF PARAISO.
3/12/1944	21-48--0.	37.75	122.15	D		F	OAKLAND.
3/13/1944	14-43-15.	37.45	121.77	B	3.9	F	NW OF MT. HAMILTON. FELT SAN JOSE.
3/15/1944	8-14-45.	36.83	121.62	C	3.9	F	V APTOS AND SAN JOSE. IV BEN LOMOND, CASTROVILLE, CHUALAR, FELTON, GILROY, HOLLISTER, MADRONE, MORGAN HILL, MOSS LANDING, SALINAS, SAN CARLOS, SAN JUAN BAUTISTA, SAN LEANDRO, SAN MARTIN, SANTA CRUZ, SOUTH SAN FRANCISCO, SUNNYVALE, AND WATSONVILLE.
3/18/1944	13-46-22.	36.98	121.47	D	3.0		EAST OF GILROY.
3/30/1944	4-15--0.	37.85	122.50	D		F	PT. BONITA LIGHT STATION.
4/ 2/1944	20-58-42.	37.72	121.70	B	2.6		EAST OF LIVERMORE.
4/ 7/1944	3-48-55.	37.28	122.20	C	2.3		DEPTH ABOUT 10 KM.
4/20/1944	13-33-27.	37.75	122.62	C	2.1		PROBABLY A BLAST.
4/25/1944	13-40-10.	37.70	122.10	D	2.3	F	III AT SAN LEANDRO.
5/ 3/1944	4- 5-37.0	37.32	121.82	B	2.5	F	15 MI. SE OF SAN JOSE. FELT SAN JOSE, SANTA CLARA, BEN LOMOND, AND LICK OBSERVATORY. (BSSA, JULY 1944).
5/ 4/1944	20- 4-27.	37.63	122.02	B	3.3	F	III AT HAYWARD.
5/ 5/1944	22- 7-37.	37.53	122.62	C	2.1		PROBABLY A BLAST.
5/12/1944	20-29-30.	36.65	121.27	C	3.0		SE OF VINEYARD.
5/16/1944	0-43-33.	37.00	121.00	D	3.9	F	II AT LOS BANOS. (BSSA, JULY 1944).
5/21/1944	23-37-17.	37.17	122.23	B	2.3		SOUTH OF PALO ALTO.
6/ 2/1944	6-27-53.	40.60	122.40	D		F	NEAR REDDING.
6/ 3/1944	23- 3-56.	37.22	122.15	C	2.0		SOUTH OF PALO ALTO.
6/ 5/1944	23-40--0.	40.85	124.15	D		F	EUREKA.
6/ 6/1944	0-38-53.	40.65	124.25	D		F	LOLETA.
6/ 6/1944	1-39--0.	37.85	118.35	D		F	OWENS RIVER GORGE, ADAMS POWERHOUSE.
6/ 7/1944	12-35-38.	36.58	121.28	B	4.0		SE OF VINEYARD.
6/ 8/1944	1-11-55.	37.53	118.67	C	4.0		LONG VALLEY.
6/ 8/1944	1-32-14.	37.53	118.67	C	3.7		LONG VALLEY.
6/10/1944	7- 1-20.	36.75	121.52	C	2.4		NEAR SAN JUAN BAUTISTA.
6/11/1944	16-17-43.	36.88	121.22	C	3.3	F	V AT HOLLISTER, II AT TRES PINOS.
6/14/1944	23-40--0.	39.55	119.80	D		F	RENO, NEVADA.
6/15/1944	0-22--0.	39.55	119.80	D		F	RENO, NEVADA.
6/15/1944	22- 5-35.	37.70	122.60	D	2.4		PROBABLY A BLAST.
6/21/1944	4-51-30.	37.88	122.62	B	2.0		PROBABLY A BLAST.
6/22/1944	5- 1-41.	37.87	122.67	B	2.6		NEAR BOLINAS.
6/24/1944	7-15--0.	36.85	121.40	D		F	HOLLISTER.
6/24/1944	7-23--0.	36.85	121.40	D		F	HOLLISTER.
6/26/1944	16-22- 7.	37.47	121.70	B	2.7		NORTH OF MT. HAMILTON.
7/ 1/1944	5-28-34.	37.18	122.30	B	2.8		OFF COAST, WEST OF SANTA CRUZ.
7/ 9/1944	1-54-39.	37.50	118.58	C	3.7	F	NEAR OWENS RIVER GORGE.
7/ 9/1944	2-47-50.	40.80	124.80	D	4.2		OFF COAST, WEST OF EUREKA.
7/11/1944	22-30--0.	36.50	121.10	D		F	SAN BENITO.
7/12/1944	15-24-30.	40.40	126.60	D	4.7		OFF CAPE MENDOCINO.
7/14/1944	1-22-25.	38.50	122.30	D	2.3		NE OF SANTA ROSA.

7/14/1944	1-34-57.	36.80	121.20	D	3.0		NE OF VINEYARD.
7/15/1944	6-14-13.	37.07	121.57	C	2.6		NORTH OF GILROY.
7/17/1944	21-46-15.	37.03	121.53	B	3.4	F	IV AT SAN MARTIN.
7/19/1944	15-28--0.	37.40	121.10	D		F	CROWS LANDING. (BSSA, OCT. 1944).
7/19/1944	17-20--0.	37.40	121.10	D		F	CROWS LANDING. (BSSA, OCT. 1944). SEVERE.
7/20/1944	14-16-59.	37.50	118.58	C	3.9		BISHOP.
7/23/1944	2-26-27.	37.08	121.50	B	2.7		DEPTH ABOUT 5 KM.
7/24/1944	10-47--0.	37.65	121.75	D		F	LIVERMORE. (BSSA, OCT. 1944).
7/29/1944	11-37-15.	40.30	125.80	D	4.5		OFF CAPE MENDOCINO.
7/30/1944	3-42--0.	40.75	122.90	D		F	WEAVERVILLE (FOREST SERVICE).
8/ 1/1944	18-48- 3.	37.17	122.17	B	3.0		SOUTH OF PALO ALTO.
8/ 7/1944	1-18-54.	39.50	120.00	D	4.2	F	IV AT RENO, NEVADA.
8/ 8/1944	0-37-39.	38.55	122.03	C	2.7		WEST OF WINTERS.
8/ 9/1944	14- 1- 5.	35.93	117.77	C	4.0		EAST OF LITTLE LAKE.
8/10/1944	13-43--0.	37.85	118.35	D		F	BISHOP, ADAMS MAIN POWERHOUSE.
8/12/1944	8-25-20.	35.93	117.77	C	4.1		EAST OF LITTLE LAKE.
8/12/1944	21-21-20.	35.93	117.77	C	3.4		EAST OF LITTLE LAKE.
8/13/1944	0-10--0.	37.00	120.00	D		F	FIVE POINTS (FRESNO COUNTY).
8/13/1944	0-11--0.	37.00	120.00	D		F	FIVE POINTS (FRESNO COUNTY). RANGER STATION.
8/13/1944	6-27-57.	35.93	117.77	C	3.7		EAST OF LITTLE LAKE.
8/26/1944	18-34-49.	37.43	121.73	B	3.1	F	II AT SANTA CLARA.
8/29/1944	18-52-10.	40.30	121.30	D	3.3	F	II AT CHESTER.
8/30/1944	6-32-28.	40.30	121.30	D	3.6		EAST OF MINERAL.
8/30/1944	6-52--0.	40.60	122.40	D		F	REDDING AND SHASTA.
8/30/1944	6-57--0.	40.60	122.40	D		F	REDDING AND SHASTA.
9/ 1/1944	5-29- 0.0	40.60	122.40	D		F	15 MI. SE OF SHASTA DAM.
9/ 1/1944	22-56-53.	37.20	122.20	D	2.4		SOUTH OF PALO ALTO.
9/ 9/1944	10-15--0.	39.35	121.70	D		F	GRIDLEY.
9/14/1944	2- 2-20.	37.57	118.73	C	3.9	F	LONG VALLEY AND OWENS RIVER GORGE NEAR BISHOP.
9/16/1944	17-35-25.	37.42	121.65	B	2.5		NEAR MT. HAMILTON.
9/18/1944	1-30- 0.	35.80	120.00	D	3.5		PARKFIELD.
9/18/1944	23- 3-28.	37.18	122.22	C	2.5		SOUTH OF PALO ALTO.
9/21/1944	4-20-33.	37.85	122.60	C	1.1		NEAR MILL VALLEY.
9/21/1944	7-21-32.	37.73	122.20	C	2.8		NEAR OAKLAND.
9/21/1944	17-18--0.	40.40	124.40	D		F	CAPE MENDOCINO. IV SCOTIA AND EUREKA.
9/21/1944	20-43- 4.	37.93	122.88	B	2.9		PROBABLY AN UNDERWATER BLAST.
9/22/1944	10-55--0.	40.50	124.10	D		F	SCOTIA.
9/24/1944	23- 0--0.	37.00	122.00	D		F	SANTA CRUZ.
9/25/1944	8- 0--0.	37.00	122.00	D		F	SANTA CRUZ.
9/28/1944	17- 8-40.	36.80	121.50	C	3.1		DEPTH ABOUT 10 KM.
10/ 1/1944	15-18- 0.0	39.35	123.10	D		F	POTTER VALLEY.
10/ 6/1944	14-28-25.	36.78	121.45	C	2.9		WEST OF VINEYARD.
10/10/1944	12-51-25.	37.10	118.27	B	2.5		S OF BISHOP.
10/19/1944	8-37--0.	38.42	122.75	D		F	SANTA ROSA. THIS AND THE THREE FOLLOWING SHOCKS MAY NOT HAVE BEEN EARTHQUAKES.
10/19/1944	9- 7--0.	38.42	122.75	D		F	SANTA ROSA. SEE ABOVE.
10/19/1944	10- 0--0.	38.42	122.75	D		F	SANTA ROSA. SEE ABOVE.
10/19/1944	13- 0--0.	38.42	122.75	D		F	SANTA ROSA. SEE ABOVE.
10/20/1944	1-13- 5.	38.50	118.30	D	4.0		NEAR HAWTHORNE, NEVADA.
10/23/1944	20-46-32.	37.60	122.70	C	2.7		PROBABLY A BLAST.

10/26/1944	22-50-30.	37.18	121.23	B	2.6		NE OF GILROY.
10/30/1944	21-14-15.	37.20	121.80	D	2.1		EAST OF LOS GATOS.
11/ 2/1944	5- 0-34.	36.80	121.00	D	3.7		NORTH OF LLANADA.
11/ 4/1944	8-12- 1.	36.33	120.08	C	3.4		E OF COALINGA.
11/ 4/1944	18-33-41.	36.60	121.10	D	3.5		WEST OF LLANADA.
11/ 8/1944	11- 8-44.	41.50	125.00	C	4.7		DEPT. WATER RESOURCES DATA
11/ 9/1944	7- 2-16.	36.60	121.30	D	3.6		SE OF VINEYARD.
11/10/1944	8- 6-42.	40.60	121.17	C	3.2	F	IV AT REDDING.
11/15/1944	6-52-26.	36.88	121.72	C	3.1		DEPTH ABOUT 10 KM. FELT IN HOLLISTER.
11/16/1944	18- 4-49.	37.77	122.15	B	3.2	F	5 TO 10 MI. FROM UNIV. OF CALIF. CAMPUS, BERKELEY. IV AT ALAMEDA, BERKELEY, BRENTWOOD, LAFAYETTE, OAKLAND, SAN GREGONIO, AND SAN LEANDRO.
11/16/1944	23-54--0.	40.30	124.10	D		F	V AT UPPER MATTOLE. IV AT FERNDALE, FIELDS LANDING, AND SCOTIA.
11/17/1944	0-32-49.	37.32	118.38	C	4.2	F	OWENS RIVER GORGE (ADAMS MAIN POWERHOUSE).
11/18/1944	23- 1-17.	37.18	122.20	C	2.7		SOUTH OF PALO ALTO.
11/19/1944	22-20-48.	36.50	117.00	D	2.5	F	IV IN DEATH VALLEY.
11/20/1944	7-29-57.	36.77	121.63	C	3.3		DEPTH ABOUT 8 KM.
11/23/1944	5-20-15.	36.63	121.03	C	3.1		DEPTH ABOUT 10 KM.
11/25/1944	16- 0--0.	37.35	121.90	D		F	SAN JOSE AND WILLOW GLEN. SMALL SHOCK.
11/26/1944	3-41- 9.	37.42	121.70	A	2.6		NEAR MT. HAMILTON.
11/26/1944	3-44-43.	37.42	121.70	A	3.2		NEAR MT. HAMILTON.
11/26/1944	3-47-30.	37.42	121.70	D		F	BEN LOMOND.
11/26/1944	15-30--0.	37.35	118.40	D		F	NEAR BISHOP.
11/27/1944	23-35-40.	37.55	117.12	C	3.7		NEAR GOLDFIELD, NEV.
11/28/1944	16-36- 0.	35.80	120.00	D	3.3		NEAR KETTLEMAN HILLS.
12/ 2/1944	15- 9-12.	35.80	120.00	D	3.2		NEAR KETTLEMAN HILLS.
12/ 5/1944	9- 1-12.	35.88	118.40	C	2.6	F	KERN RIVER POWERHOUSE NO. 3 AND KERNVILLE.
12/ 5/1944	10-30--0.	35.88	118.40	D		F	KERN RIVER POWERHOUSE NO. 3 AND KERNVILLE.
12/ 5/1944	12- 1-22.	35.88	118.40	C	2.2	F	KERN RIVER POWERHOUSE NO. 3 AND KERNVILLE.
12/ 6/1944	4-16-46.	35.88	118.40	C	2.4	F	KERN RIVER POWERHOUSE NO. 3 AND KERNVILLE.
12/ 8/1944	9-20-48.	38.40	117.40	D	3.4		N OF TONOPAH, NEV.
12/ 8/1944	17-24-45.	37.77	122.10	C	1.7		EAST OF OAKLAND.
12/11/1944	11-12-11.	37.37	118.63	C	3.4		W OF BISHOP.
12/15/1944	20- 8-54.	36.57	121.45	C	3.6		SOUTH OF VINEYARD.
12/16/1944	7-10--0.	36.65	119.50	D		F	NAVELANCIA, N. OF REEDLEY.
12/16/1944	19- 1-30.	38.20	122.03	C	3.0		NEAR FAIRFIELD.
12/19/1944	11-44-16.	36.95	121.60	C	2.1		NEAR GILROY.
12/19/1944	22-17-49.	37.37	121.80	B	2.5		EAST OF SAN JOSE.
12/23/1944	8-16-22.	36.40	117.92	A	4.7	F	OWENS LAKE. V AT KEELER AND LONE PINE.
12/24/1944	7-25--0.	37.10	118.27	C	3.8		NEAR TINEMAHA.
12/30/1944	18-16-43.	40.35	121.60	D		F	MINERAL.
1/ 2/1945	2-36-10.	36.40	117.92	C	3.5		OWENS LAKE.
1/ 7/1945	22-25-33.	36.73	121.20	B	4.7	F	SAN BENITO CO. FELT OVER AREA OF 13,000 SQUARE MILES IN WEST CENTRAL CALIFORNIA. VI HOLLISTER, PAICINES, SAN BENITO. V CARMEL, LOS BANOS, MONTEREY, MOSS LANDING, SNELLING. IV 29 TOWNS FROM SAN FRANCISCO TO AHWAHEE TO SAN ARDO.
1/ 8/1945	0-24--0.	36.85	121.40	D		F	HOLLISTER. SLIGHT SHOCK.
1/ 8/1945	2-30--0.	36.85	121.40	D		F	HOLLISTER. SLIGHT SHOCK.
1/ 8/1945	10-22--0.	36.85	121.40	D		F	IV AT HOLLISTER.
1/10/1945	18-34--0.	40.25	124.10	D		F	V AT UPPER MATTOLE. IV AT BRICELAND, CARLOTTA, ETTERSBURG, FERNDALE, FIELDS LANDING, FORTUNA, PETROLIA, AND SCOTIA.

1/24/1945	12- 0--0.	39.55	120.70	D		F SIERRA CITY.
2/ 2/1945	23- 9-18.	37.50	121.50	D	2.4	NE OF MT. HAMILTON.
2/10/1945	14-10-37.	37.27	121.78	B	2.6	EAST OF SAN JOSE.
2/11/1945	19-32-36.	36.70	121.20	D	3.2	SE OF VINEYARD.
2/13/1945	21-19-31.	37.98	121.95	C	3.2	EAST OF CONCORD.
2/17/1945	19-44-50.	36.93	121.65	C	3.0	EAST OF WATSONVILLE.
2/19/1945	23-25--0.	38.85	120.00	D		F MEYERS. LIGHT SHOCK.
2/22/1945	18-58--0.	39.00	118.00	D		F GABBS, NEVADA. HEAVY SHOCK.
2/25/1945	20-13-38.	36.00	120.48	C	3.6	PARKFIELD.
2/26/1945	23- 7-35.	37.20	122.20	B	2.7	SOUTH OF PALO ALTO.
3/ 4/1945	21- 0-42.	39.90	119.40	D	4.0	NE OF RENO, NEVADA.
3/ 5/1945	12-12-32.	37.40	121.80	B	2.2	NW OF MT. HAMILTON.
3/10/1945	9-13-50.	37.53	118.67	C	3.7	LONG VALLEY.
3/14/1945	23-24-12.	36.97	121.62	C	2.8	FORESHOCK OF QUAKE ON MARCH 19 AT 1450.
3/16/1945	12-49-26.	37.22	121.77	C	2.3	SW OF MT. HAMILTON.
3/19/1945	14-50- 0.	36.92	121.62	B	3.3	SW OF GILROY.
3/19/1945	19- 0-19.	36.73	121.63	B	3.3	NE OF SALINAS.
3/27/1945	17- 6-47.	40.20	124.30	D	4.1	NEAR PETROLIA.
4/13/1945	14-39-31.	36.60	121.10	C	3.5	WEST OF LLANADA.
4/17/1945	2-23-20.	37.42	122.32	C	1.9	WEST OF PALO ALTO.
4/19/1945	10-10-48.	37.18	121.83	B	3.0	EAST OF LOS GATOS.
4/20/1945	5-36-10.	39.75	121.65	D		F VI AT PARADISE. IV AT LAS PLUMAS, STORRIE, AND NE BUTTE CO.
4/22/1945	21-20- 0.	36.67	121.62	C	2.5	NEAR SALINAS.
4/23/1945	3- 3-54.	36.30	118.00	D	3.1	HAIWEE.
4/25/1945	12-44-55.	37.53	118.67	C	3.2	NORTHERN OWENS VALLEY.
5/ 2/1945	6-25-26.	37.25	121.90	B	2.7	F SAN JOSE AND SANTA CLARA.
5/ 2/1945	9-57-30.	37.50	118.30	D	3.5	NORTHERN OWENS VALLEY.
5/ 2/1945	19-47-54.	41.20	123.50	D	5.0	F NEAR SCOTT MT. FELT OVER AREA OF 3,500 SQUARE MILES IN NW CALIFORNIA. VI ETNA AND BURNT RANCH. V CALLAHAN, CLEAR CREEK, EUREKA, HYAMPOM, SALYER, WEAVERVILLE, AND WEITCHPEC.
5/ 6/1945	9-49-16.	36.70	120.90	D	2.8	NEAR LLANADA.
5/ 8/1945	18- 8-46.	37.50	118.57	C	4.4	F NORTHERN OWENS VALLEY. V AT OWENS RIVER GORGE, 20 MILES FROM BISHOP.
5/ 9/1945	0-55-27.	37.98	122.25	C	2.6	NORTH OF BERKELEY.
5/10/1945	22-45-50.	37.22	122.22	B	2.6	SOUTH OF PALO ALTO.
5/13/1945	10-25- 7.	36.52	121.13	C	2.7	SW OF LLANADA.
5/17/1945	9-45--0.	36.20	118.40	D		F KERN COUNTY. SLIGHT SHOCK.
5/17/1945	15- 6-47.	36.82	121.37	B	4.6	F HOLLISTER. FELT OVER 6,000 SQUARE MILES. VI HOLLISTER, GILROY, AND SAN MARTIN. V CARMEL, SAN JOSE, AND TRES PINOS. IV AT 29 TOWNS FROM DALY CITY TO SAN LUCAS.
5/18/1945	9-44-40.	36.20	118.38	C	4.0	KERN RIVER FAULT, WEST OF HAIWEE.
5/18/1945	18-10--0.	37.00	119.70	D		F FRIANT.
5/19/1945	15- 7- 0.	40.40	126.90	D	6.0	F OFF COAST OF NO. CALIFORNIA. FELT OVER 1,500 SQUARE MILES FROM CRESCENT CITY TO WILLITS. V UPPER MATTOLE. IV ARCATA, BLUE LAKE, CARLOTTA, EUREKA, FERNDALE, FIELDS LANDING, KLAMATH, ORICK, PIERCY, AND SCOTIA.
5/25/1945	19-41-56.	37.97	121.55	C	2.2	WEST OF STOCKTON.
6/14/1945	3-30-13.	37.08	117.50	C	5.0	NORTH END OF DEATH VALLEY.
6/14/1945	22-57-48.	36.70	121.45	B	3.7	F IV AT HOLLISTER.
6/18/1945	22- 6-26.	36.70	121.10	D	2.7	NW OF LLANADA.
6/21/1945	21-58--0.	36.85	121.40	D		F HOLLISTER. (BSSA, OCT. 1945).

6/22/1945	0-16-35.	37.98	122.58	B	2.6		WEST OF SAN RAFAEL.
7/ 4/1945	12- 8-10.	37.13	121.60	C	2.4		NORTH OF GILROY.
7/ 7/1945	23-54-29.	36.57	121.47	C	3.0	F	CENTRAL EL DORADO CO. FOUR SHOCKS.
7/ 8/1945	20-56-17.	37.93	121.78	B	2.8		NEAR ANTIOCH.
7/ 9/1945	20-22- 0.0	36.90	121.75	D		F	WATSONVILLE.
7/11/1945	12-57- 0.0	36.90	121.75	D		F	WATSONVILLE. FELT ALSO AT BIG SUR.
7/11/1945	16-13- 0.	35.67	121.25	D	4.0	F	NEAR SAN SIMEON. IV AT CAMBRIA.
7/14/1945	0-37- 1.	38.20	123.00	D	2.7		NEAR INVERNESS.
7/21/1945	20-19--0.	37.85	122.30	D		F	BERKELEY, ALBANY, RICHMOND.
7/23/1945	17-13-48.	37.78	121.40	B	2.5		NEAR TRACY.
7/26/1945	10-10-56.	36.05	117.87	C	4.1		NEAR HAIWEE.
7/29/1945	13-50-19.	37.38	121.53	B	2.6		EAST OF MT. HAMILTON.
7/30/1945	6- 6-10.	37.17	118.07	C	4.1		NEAR TINEMAHA.
8/ 1/1945	3-46-26.	37.33	122.32	B	2.6		SW OF PALO ALTO.
8/ 1/1945	5-23-20.	37.58	122.48	C	2.4		SOUTH OF SAN FRANCISCO.
8/ 4/1945	1- 1-27.	37.20	122.20	B	2.4		SOUTH OF PALO ALTO.
8/ 7/1945	4-38-27.	37.52	121.77	B	2.5		SOUTH OF LIVERMORE.
8/ 7/1945	23-37- 1.	37.52	121.77	B	2.6		SOUTH OF LIVERMORE.
8/11/1945	11-14-59.	37.42	117.33	C	3.3		SE OF LIDA, NEV.
8/13/1945	19- 3-16.	38.50	122.13	B	2.8		WEST OF WINTERS.
8/17/1945	20-21-14.	37.42	118.58	C	4.2		WEST OF BISHOP.
8/17/1945	21- 6-54.	37.57	122.65	C	2.5		PERHAPS A BLAST.
8/22/1945	8-14- 3.	37.30	122.28	C	1.4		SW OF PALO ALTO.
8/23/1945	17-33-51.	36.58	121.30	C	3.7		SE OF VINEYARD.
8/24/1945	20-27- 0.0	36.60	118.10	D		F	LONE PINE. (BSSA, OCT. 1945).
8/25/1945	1-53-22.	37.30	122.20	D	2.7		SOUTH OF PALO ALTO.
8/27/1945	7-10-42.	37.57	121.88	B	2.8		WEST OF LIVERMORE.
8/27/1945	9-13- 4.	37.27	121.80	C	4.5	F	SAN JOSE. FELT OVER 13,000 SQUARE MILES. VI AT MT. HAMILTON AND SAN JOSE. V AT ALMA, ALVISO, BOULDER CREEK, HOLLISTER, SAN FRANCISCO, AND SAN MARTIN. IV AT 64 TOWNS FROM ST. HELENA TO HUNTINGTON LAKE TO BIG SUR.
8/29/1945	4-30--0.	40.35	121.60	D		F	MINERAL.
8/29/1945	4-45--0.	40.35	121.60	D		F	MINERAL.
8/29/1945	14-40- 7.	38.48	121.93	C	3.6		EAST OF WINTERS.
8/30/1945	2-30- 0.0	39.20	121.00	D		F	GRASS VALLEY AND NEVADA CITY.
9/ 4/1945	11-13-56.	37.33	118.12	C	4.2		NEAR TINEMAHA.
9/ 7/1945	0-36-44.	38.57	122.12	C	3.5		NW OF WINTERS.
9/ 7/1945	11-38-23.	35.83	120.75	C	4.2	F	NEAR BRADLEY. IV AT CAMBRIA, PARKFIELD, PASO ROBLES, AND SAN MIGUEL.
9/ 8/1945	11-20--0.	40.50	121.40	D		F	SUMMIT LAKE (LASSEN VOLCANIC NAT'L PARK).
9/ 8/1945	11-30--0.	40.50	121.40	D		F	SUMMIT LAKE (LASSEN VOLCANIC NAT'L PARK).
9/ 9/1945	11-15-24.	36.70	121.70	D	2.9		NEAR SALINAS.
9/11/1945	2- 1- 8.	36.53	117.17	C	3.4		E OF LONE PINE.
9/11/1945	23-49-47.	38.07	122.50	B	2.6		NORTH OF SAN RAFAEL.
9/16/1945	23-55-35.	38.48	122.00	C	3.3		NEAR WINTERS.
9/17/1945	23-22- 0.0	36.75	119.60	D		F	DUNLAP.
9/18/1945	7- 5-28.	37.50	121.55	B	2.5		NE OF MT. HAMILTON.
9/20/1945	22-45-37.	37.45	121.75	B	2.9		NW OF MT. HAMILTON.
9/21/1945	0-28-23.	38.47	121.87	C	2.9		THIS EARTHQUAKE AND THOSE ON AUGUST 13, AUGUST 29, SEPTEMBER 7, AND SEPTEMBER 16 MAY HAVE HAD A COMMON FOCUS.
9/24/1945	15-10-28.	36.63	121.98	B	2.9		NEAR MONTEREY.
9/24/1945	19-52-18.	36.80	121.70	D	2.8		SE OF WATSONVILLE.

9/26/1945	17-20- 0.0	36.85	121.40	D		F	NEAR HOLLISTER.
9/27/1945	5-24-47.	37.07	121.08	B	3.5		SOUTH OF GUSTINE.
9/28/1945	22-24- 5.	41.90	126.70	D	6.0		USCGS GIVES 41.7 N, 126.9 W.
9/30/1945	4-30- 0.0	40.35	121.55	D		F	GUERNSEY CAMP (LASSEN VOL. NAT'L PARK).
10/ 1/1945	17-26-17.	38.27	122.18	B	3.4		DEPTH ABOUT 10 KM.
10/11/1945	20-37-40.	38.48	121.92	B	3.2		NEAR WINTERS.
10/16/1945	5-11--0.	40.35	121.60	D		F	MINERAL.
10/16/1945	22-12-28.	37.45	121.80	C	2.5		NW OF MT. HAMILTON.
10/17/1945	0- 8-15.	37.20	122.20	B	2.4		SOUTH OF PALO ALTO.
10/19/1945	5- 7- 0.0	40.35	121.60	D		F	MINERAL.
10/22/1945	19-26- 6.	40.70	124.70	D	4.3		OFF COAST, SW OF EUREKA.
10/25/1945	16-45- 0.0	40.35	121.60	D		F	MINERAL.
11/ 3/1945	15-50-22.	36.63	121.25	C	4.2	F	INTENSITY V 7.5 MILES SOUTH OF HOLLISTER.
11/ 4/1945	0-46-34.	36.38	121.28	C	3.3		NEAR SOLEDAD.
11/ 8/1945	0-45-19.	38.53	122.10	C	3.4		LARGE SINUSOIDAL SURFACE WAVES ON ALL RECORDS.
11/ 8/1945	20- 9-17.	37.17	121.52	C	4.2	F	VI AT MADRONE. IV AT PESCADERO, SAN MARTIN, SOQUEL, AND SAN FRANCISCO.
11/13/1945	1-12- 8.0	37.63	121.82	B	3.7	F	SOUTH OF LIVERMORE. FELT AT LIVERMORE AND HAYWARD.
11/21/1945	22-56-10.	38.42	122.78	B	3.5	F	III AT SANTA ROSA. (BSSA, JAN. 1946.)
11/25/1945	22-40-49.	37.25	121.57	C	3.5		SOUTH OF MT. HAMILTON.
12/ 3/1945	4-30-21.	37.88	122.20	A	2.9	F	III BERKELEY, OAKLAND, AND SAN FRANCISCO.
12/ 4/1945	21- 7--0.	40.35	121.60	D		F	NEAR MINERAL. ALSO FELT AT BUCKS CREEK POWERHOUSE.
12/ 6/1945	7- 0- 7.	37.48	121.82	C	2.3		NW OF MT. HAMILTON.
12/ 8/1945	21-55-53.	38.15	118.05	C	3.8		NEAR CANDELARIA, NEV.
12/14/1945	3-17-24.	37.15	121.90	C	2.5	F	INTENSITY IV AT HOLY CITY.
12/19/1945	16-10--0.	36.75	121.75	D		F	MOSS BEACH. TWO SLIGHT SHOCKS.
1/ 8/1946	19- 0--0.	38.65	119.50	D		F	MONO OBSERVATORY, COLEVILLE.
1/ 9/1946	22-30-58.	36.60	121.17	C	3.4		WEST OF LLANADA.
1/13/1946	16-31-15.	37.32	118.65	C	4.7	F	WEST OF BISHOP. VI AT OWENS RIVER GORGE. V AT LAWS.
2/ 6/1946	20-51-55.	36.90	121.40	D	3.6		NORTH OF HOLLISTER.
2/ 6/1946	23-32-36.	37.00	121.20	C	3.1		NE OF HOLLISTER.
2/10/1946	2-56--0.	38.85	117.90	D		F	BRUCITE, NEV., W OF PARADISE MTNS.
2/10/1946	11- 1-19.	36.50	121.00	D	4.2	F	FELT OVER AREA OF 2000 SQUARE MILES IN WEST CENTRAL CALIFORNIA. V SAN BENITO. IV BIG SUR, CHUALAR, GREENFIELD, SANTA CRUZ, HOLLISTER, LONOAK, SAN LUCAS, SAN MIGUEL, AND SOLEDAD.
2/13/1946	23-58--0.	36.75	119.75	D		F	FRESNO. MILD SHOCK.
2/14/1946	17-50--0.	39.30	120.20	D		F	WASHOE VALLEY, NEV. (BSSA, APRIL 1946.)
2/15/1946	12- 7--0.	35.90	120.45	D		F	PARKFIELD. LIGHT SHOCK.
2/19/1946	6- 7-58.	37.55	121.75	A	2.0		SOUTH OF LIVERMORE.
3/ 5/1946	14- 4-27.0	38.70	120.30	C	4.1	F	VI AT BIJOU AND CAMINO. ALSO FELT AT CAMP RICHARDSON, HOMEWOOD, KYBURZ, MEYERS, TAHOE VISTA, AND WOODFORDS, CALIF., AND CARSON CITY, LAKE TAHOE, MINDEN, STEAMBOAT, AND VIRGINIA CITY, NEVADA.
3/15/1946	15- 0- 9.	35.78	118.05	B	4.4	F	AFTERSHOCK OF 13-49-36.
3/17/1946	7-30--0.	40.00	121.00	D		F	QUINCY AND FEATHER RIVER REGION.
3/17/1946	8- 0--0.	40.00	121.00	D		F	QUINCY AND FEATHER RIVER REGION.
3/17/1946	14-45-53.	38.30	117.90	D	5.0	F	SW OF HAWTHORNE, NEVADA. V AT LUNING, NEVADA. IV AT BRIDGEPORT, COLEVILLE, EL PORTAL, LAWS, AND YOSEMITE, AND CARSON CITY, FALLON, HAWTHORNE, MINA, SCHURZ, SMITH, SMOKEY VALLEY, TONOPAH, AND

							YERINGTON, NEVADA.
3/18/1946	15-49-26.	35.78	117.92	B	4.8	F	AFTERSHOCK OF 3/15/46, 13-49-36. VI AT BROWN, LOS ANGELES, TRONA, AND WELDON. V AT COSO JUNCTION, DUCOR, LITTLE LAKE, AND MUROC. IV AT 17 TOWNS.
3/26/1946	8-38--0.	35.90	118.00	D		F	12 MI. S OF LITTLE LAKE.
3/27/1946	16-30--0.	37.10	121.70	D		F	SAN MARTIN.
3/29/1946	10-40-11.0	37.95	121.98	B	2.5	F	IV AT MARTINEZ AND LAFAYETTE.
3/29/1946	11-58--0.	40.90	121.70	D		F	CASSEL AND FALL RIVER MILLS.
4/10/1946	5-16--0.	36.70	121.40	D		F	7 MI. S OF HOLLISTER.
4/16/1946	10-37- 5.	35.78	118.20	B	4.1	F	SAND CANYON.
4/17/1946	8-57-54.	36.60	121.20	D	3.1		SE OF VINEYARD.
4/17/1946	13-33-20.	36.92	121.75	C	3.4	F	IV AT SAN MARTIN AND WATSONVILLE.
4/19/1946	21- 0--0.	39.70	123.50	D		F	LAYTONVILLE.
4/22/1946	7-42- 8.	37.72	121.57	B	3.5	F	FELT IN VERNALIS.
4/23/1946	10-39- 7.	37.28	121.73	B	2.8		SW OF MT. HAMILTON.
4/25/1946	11-45-47.	36.78	121.60	A	2.8	F	IV AT WATSONVILLE.
4/25/1946	21-50-38.	37.57	121.92	A	3.8	F	NEAR SANTA CLARA. VI AT MILPITAS AND PLEASANTON. V AT ALVISO, AGNEW, MISSION SAN JOSE, MORAGA, AND NEWARK.
4/27/1946	2-18-24.	38.50	118.00	D	4.7		AROUND MINA, NEVADA.
4/28/1946	15-50-58.	37.70	121.40	D	2.7		SOUTH OF TRACY.
4/29/1946	-0--0--0.	40.40	121.60	D		F	4/29 THROUGH 5/4 12 OR MORE SHOCKS FELT AT CHILDS MEADOWS, MANZANITA LAKE, AND MINERAL.
4/29/1946	19-39- 9.	37.57	121.92	B	2.2		NEAR PLEASANTON.
5/ 1/1946	17-30-10.	37.08	118.00	C	4.0	F	E OF TINEMAHA. IV DEEP SPRINGS AND LAWS.
5/ 2/1946	1-26-12.	37.68	121.60	A	4.6	F	FELT OVER 3,000 SQ. MI. IN WEST CENTRAL CALIFORNIA. VI TRACY. V BYRON, MORAGA. IV AGNEW, ALMA, DECOTO, DIABLO, SUNOL, ISLETON, IRVINGTON, LAFAYETTA, LATHROP, LIVERMORE, MISSION SAN JOSE, MOUNT EDEN, NILES, PINOLE, PLEASANTON, RIPON, SAN GREGORIO, SAN LORENZO, SAN FRANCISCO.
5/ 2/1946	2-11-37.	37.68	121.62	A	3.2		EAST OF LIVERMORE.
5/ 2/1946	19- 9-35.	37.43	121.72	B	2.4		NW OF MT. HAMILTON.
5/13/1946	1-16-57.	36.05	117.92	B	3.0	F	HAIWEE.
5/13/1946	1-18-33.	36.05	117.92	B	3.0	F	HAIWEE.
5/13/1946	1-26- 9.	36.05	117.92	B	2.9		HAIWEE.
5/14/1946	0-28-30.	37.33	118.83	C	3.9	F	W OF BISHOP. FELT AT LAWS.
5/14/1946	2-34-28.	37.33	118.83	C	3.5		W OF BISHOP.
5/18/1946	3-55- 0.	37.37	118.83	C	4.1	F	WEST OF BISHOP. IV AT LAWS.
5/18/1946	6-45-49.	37.37	118.83	C	4.0		AFTERSHOCK OF 3-55-0.
5/21/1946	5-36-24.	35.90	118.50	D		F	KERN RIVER POWERHOUSE NO. 3.
5/22/1946	19- 1-53.	36.13	117.95	B	2.5	F	HAIWEE.
5/24/1946	6-19-27.	36.05	117.92	C	2.8		HAIWEE.
5/25/1946	12- 1-30.	36.57	121.18	A	3.6		SE OF VINEYARD.
5/29/1946	5-58--0.	37.80	122.20	D		F	10 MI. SE OF UNIV. OF CALIF., BERKELEY. V MOREGA. IV ALAMEDA, ALBANY, BERKELEY, CANYON, HAYWARD, OAKLAND, PIEDMONT, RODEO, AND WALNUT CREEK.
5/29/1946	17-51- 3.	36.77	121.42	C	4.5	F	V HOLLISTER. IV SAN JUAN BAUTISTA AND SAN MARTIN. III SALINAS AND WATSONVILLE. DEPTH ABOUT 10 KM.
6/ 1/1946	20-28-50.	35.88	117.37	C	3.5		N OF CHINA LAKE.
6/12/1946	20-20-42.	35.77	118.02	B	3.6		S OF HAIWEE.
6/14/1946	6-56--0.	40.35	121.60	D		F	MINERAL. BETWEEN 6-56-0 AND 15-30-0 TWENTY SHOCKS WERE FELT.
6/24/1946	5-25--0.	40.35	121.60	D		F	MINERAL.
7/ 5/1946	10-44-32.	37.33	119.08	C	3.1		W OF BISHOP.

7/ 7/1946	6-55-15.	40.50	121.50	B	5.0	F	FELT OVER ABOUT 7,000 SQ. MI. IN NO. CALIF VI MILL CREEK AND MINERAL. V CARIBOU AND GRASS VALLEY. IV CHESTER, CHICO, DUTCH FLAT, GRIDLEY, QUINCY, REDDING, AND SUSANVILLE. III MARYSVILLE.
7/ 8/1946	12- 4--0.	40.35	121.60	D		F	MINERAL. FELT ALSO AT CARIBOU.
7/13/1946	23-12-20.	37.70	121.50	A	3.4		SW OF TRACY.
7/14/1946	10-16-44.	37.50	121.68	B	2.4		SE OF LIVERMORE.
7/23/1946	11-25-58.	35.83	118.00	C	3.4	F	HEAVY SHOCK AT NINE MILE AQDT. STA.
8/ 3/1946	4- 0--0.	40.85	124.15	D		F	EUREKA. (BSSA, OCT. 1946.)
8/ 5/1946	4- 8-45.	36.85	121.78	C	4.1	F	SAN ANDREAS FAULT, NEAR ALMA AND LOS GATOS. IV AT ALMA, ALVISO, APTOS, LOS GATOS, SAN GREGORIO, AND WATSONVILLE. III AT SAN FRANCISCO.
8/ 8/1946	10- 5-14.	38.17	119.28	C	4.2		NORTH OF MONO LAKE.
8/ 8/1946	11-15- 5.	38.17	119.28	D	3.6		NORTH OF MONO LAKE.
8/ 8/1946	11-17- 9.	38.17	119.28	D	3.3		NORTH OF MONO LAKE.
8/ 8/1946	20-13--0.	40.40	124.10	D		F	SCOTIA AND UPPER MATTOLE.
8/10/1946	21-28-28.	36.48	117.92	B	3.0		NORTH OF OWENS LAKE.
8/14/1946	21-57-59.	37.72	122.73	B	3.2	F	INTENSITY IV AT ROCKAWAY BEACH, III AT SAN FRANCISCO AND OAKLAND.
8/19/1946	10-20--0.	38.50	119.75	D		F	5 MI. S OF MARKLEEVILLE.
8/24/1946	12-16-28.	35.88	118.07	C	2.9		S OF HAIWEE.
9/ 5/1946	17-38-33.	35.98	117.38	C	3.7		N OF CHINA LAKE.
9/14/1946	17-18-38.	36.07	117.32	C	3.1		N OF CHINA LAKE.
9/19/1946	6-35-44.	35.83	119.67	C	3.2		NEAR TULARE LAKE BASIN.
9/25/1946	0- 3-46.	37.47	121.45	D	2.2		NE OF MT. HAMILTON.
10/ 1/1946	19-23- 3.	37.52	121.68	B	3.5	F	N OF MT. HAMILTON. FELT AT SAN JOSE. (BSSA, OCTOBER 1946.)
10/28/1946	3-49-12.	37.15	121.58	B	3.1		NW OF GILROY.
10/30/1946	20-10--0.	37.85	122.20	D		F	CANYON. VERY SLIGHT SHOCK.
11/ 4/1946	17-17- 1.	37.00	121.73	D	2.9		WEST OF GILROY.
11/ 7/1946	21- 9-55.	35.92	118.20	D	2.9		SW OF HAIWEE.
11/10/1946	8-23- 2.	37.95	122.27	A	2.0		NORTH OF BERKELEY.
11/15/1946	3-23-58.	37.65	122.25	C	2.0		SOUTH OF OAKLAND, IN SAN FRANCISCO BAY.
11/22/1946	16- 6-24.	37.37	121.55	A	2.7		NE OF MT. HAMILTON.
11/24/1946	21-30-14.	36.60	117.87	C	3.8		N OF OWENS LAKE.
11/25/1946	1- 2--0.	40.85	124.15	D		F	EUREKA. FELT AT ARCATA.
11/25/1946	7-16-44.	36.82	121.52	B	2.9	F	IV IN HOLLISTER.
11/27/1946	14-44-51.	35.50	120.92	C	4.3	F	NEAR CAYUCOS. V AT MORRO BAY AND SANTA MARGARITA. ALSO FELT ATASCADERO, LOS ALAMOS, PISMO BEACH, AND SAN LUIS OBISPO.
12/ 1/1946	5-16-29.	37.25	117.20	C	3.2		NEAR GOLD MOUNTAIN, NEV.
12/ 1/1946	6-23- 3.	37.17	117.33	C	3.5		NEAR GOLD MOUNTAIN, NEV.
12/ 1/1946	11-54-35.	37.20	117.32	C	3.3		NEAR GOLD MOUNTAIN, NEV.
12/ 7/1946	2- 2-29.	37.30	117.30	D	4.1		NEAR GOLD MOUNTAIN, NEVADA.
12/ 9/1946	14-35-17.	35.77	117.78	C	3.0		W OF CHINA LAKE.
12/18/1946	14-20-28.	40.30	124.60	C	4.7	F	FELT OVER 3,500 SQ. MI. IN NO. COASTAL CALIFORNIA. VI FERNDALE AND CAPETOWN. V ARCATA, BLUE LAKE, EUREKA, FIELDS LANDING, FORTUNA, HONEYDEW, PEPPERWOOD, PETROLIA, SHELTER COVE, UPPER MATTOLE. IV BENBOW, BRIDGEVILLE, COLUSA, FORT BRAGG, GARBERVILLE, ORICK, SCOTIA, TRINITY CENTER, TRINIDAD, WESTPORT, ROCKPORT, REDDING, PIERCY, ORLEANS, AND OTHERS.
12/21/1946	4-25--0.	40.85	124.15	D		F	EUREKA. VERY SLIGHT SHOCK.
12/24/1946	1-39-50.	37.48	121.53	C	3.4	F	IV IN SAN JOSE.
12/27/1946	7- 6--0.	37.52	119.00	C	3.8	F	NO. OWENS VALLEY. FELT LONG VALLEY RES.
12/27/1946	8-22-59.	37.52	119.00	C	3.3		NORTHERN OWENS VALLEY.

12/30/1946	0-46-26.	37.35	121.35	C	2.6		EAST OF MT. HAMILTON.
1/ 4/1947	14-50--0.	36.60	121.10	D	2.9		WEST OF LLANADA.
1/ 6/1947	21- 5-47.	35.85	120.47	C	3.6		N OF SAN SIMEON.
1/ 7/1947	17-28-39.	37.17	118.12	C	3.3	F	NE OF TINEMAHA. FELT BIGPINE AND LAWS.
1/11/1947	11-57-48.	37.60	118.43	C	4.4	F	N OF BISHOP. VI OWENS RIVER GORGE (N OF BISHOP). V TINEMAHA RESERVOIR. VI BIGPINE CAMP, BISHOP, AND WOODLAKE.
1/12/1947	22-10--0.	36.60	117.15	D		F	EMIGRANT RANGER STA. (DEATH VALLEY).
1/14/1947	2-47-48.	37.23	117.37	C	3.9		S OF GOLDFIELD, NEV.
1/14/1947	2-50-11.	37.23	117.37	C	3.5		S OF GOLDFIELD, NEV.
1/19/1947	19-32- 0.	35.60	120.30	D	3.1	F	PASO ROBLES.
1/21/1947	6-59--0.	38.40	119.70	B	3.8		SW OF COLEVILLE.
1/25/1947	11-49--0.	36.73	121.88	B	3.7		MONTEREY BAY.
1/26/1947	4-13--0.	37.23	121.73	A	2.6		SW OF MT. HAMILTON.
1/28/1947	5-54--0.	36.60	121.17	B	3.0		SW OF VINEYARD.
1/31/1947	4- 2--0.	36.80	121.60	C	2.4		NEAR SAN JUAN BAUTISTA.
2/ 1/1947	1-45-17.	35.92	119.05	C	2.8		S OF PORTERVILLE.
2/ 5/1947	6-14--0.	36.23	120.65	B	5.0	F	VI AT LONOAK, V AT COALINGA, IDRIA, KING CITY. IV AT BIG SUR, HURON, PARKFIELD, SAN ARDO, AND WESTHAVEN.
2/ 9/1947	16-21--0.	36.80	121.60	C	3.0		NEAR SAN JUAN BAUTISTA.
2/12/1947	0-47--0.	36.70	121.10	D	3.2		NW OF LLANADA.
2/18/1947	7-44--0.	37.15	117.38	C	3.4		S OF GOLDFIELD, NEV.
2/20/1947	10-45--0.	37.55	119.45	B	3.6	F	IV AT ELLERY LAKE AND GLEN LAKE (LEEVINING, MONO COUNTY).
2/25/1947	11-45-18.	36.20	120.50	D	4.2		NEAR COALINGA. AFTERSHOCK OF 2/5/47, 6-14
3/ 9/1947	21-10-44.	35.82	117.68	C	4.0	F	NE OF INYOKERN. V AT NINE MILE AQUEDUCT STATION. ALSO FELT AT JAWBONE AND SAND CANYON AQDT. STAS., TRONA, AND WELDON.
3/11/1947	20-30--0.	39.30	120.20	D		F	WASHOE VALLEY, NEVADA.
3/11/1947	21-45--0.	39.30	120.20	D		F	WASHOE VALLEY, NEVADA.
3/14/1947	11-35--0.	40.30	124.30	C	4.0	F	NEAR PETROLIA. IV UPPER MATTOLE.
3/17/1947	8-46--0.	40.30	124.90	C	4.4	F	FELT AT FERNDALE AND PETROLIA.
3/23/1947	12- 0--0.	37.97	122.10	B	2.9		NEAR CONCORD.
3/23/1947	16- 4-51.	35.15	121.30	D	3.7		W OF SAN LUIS OBISPO.
3/30/1947	7-44--0.	40.38	124.68	B	4.6	F	FELT OVER AN AREA OF 2,000 SQUARE MILES IN SOUTHWESTERN HUMBOLDT COUNTY, VI AT BRIDGEVILLE, V AT EUREKA, HOLMES, HONEYDEW, FIELDS LANDING, FORTUNA, UPPER MATTOLE, IV AT ARCATA, BENBOW, BLUE LAKE, CAPE MENDOCINO LIGHT STATION, CARLOTTA, DYERVILLE, FORT BRAGG.
4/ 2/1947	5-48--0.	37.53	121.75	A	2.5		SOUTH OF LIVERMORE.
4/12/1947	23- 7--0.	36.52	121.58	B	3.5		WEST OF GONZALES.
4/13/1947	9-12--0.	37.57	121.85	C	2.0		SW OF LIVERMORE.
4/14/1947	16-35-44.	36.52	121.58	B	3.6	F	INTENSITY IV IN CARMEL.
4/22/1947	2-24--0.	37.73	122.07	A	2.5		EAST OF OAKLAND.
4/22/1947	15-33--0.	37.30	121.80	D	2.8		NEAR SAN JOSE.
4/26/1947	11-20--0.	36.88	121.43	C	3.1		NEAR HOLLISTER.
4/29/1947	13-17--0.	37.05	121.68	C	2.3		NW OF GILROY.
5/ 3/1947	6- 4--0.	37.70	121.77	C	2.6		NEAR LIVERMORE.
5/ 4/1947	8-45--0.	36.82	121.20	B	3.4		EAST OF HOLLISTER.
5/ 7/1947	15-41--0.	36.82	121.20	C	3.6		EAST OF HOLLISTER.
5/10/1947	8-10-42.	39.60	120.30	B	4.2	F	IV SIERRA CITY AND SIERRAVILLE.
5/13/1947	2- 1--0.	36.80	121.42	C	2.7		NEAR HOLLISTER.
5/15/1947	1-55--0.	37.30	121.80	D	2.4		NEAR SAN JOSE.
5/26/1947	0-22-23.	35.78	118.03	C	3.0	F	NEAR WALKER PASS. FELT SAND CANYON AQ. ST.
5/26/1947	3- 5--0.	37.70	121.98	C	2.3		EAST OF HAYWARD.

5/27/1947	19-35--0.	40.25	124.10	D		F UPPER MATTOLE.
5/27/1947	20-59--0.	40.40	124.70	B	5.2	F FELT OVER ABOUT 2,400 SQ. MI. FROM HOOPA TO FORT BRAGG TO TRINIDAD. VI HONEYDEW AND UPPER MATTOLE. V CAPE MENDOCINO LT. STA., EUREKA, FERNDALE, FORT BRAGG, GARBERVILLE, PETROLIA, AND SCOTIA. IV ALDERPOINT, ARCATA, 7 MI. N OF BRIDGEVILLE, CARLOTTA, FORTUNA, AND TRINIDAD.
6/ 6/1947	3-36--0.	37.20	121.70	D	2.5	SOUTH OF MT. HAMILTON.
6/22/1947	23-30--0.	37.00	121.77	A	4.7	F FELT OVER ABOUT 7,000 SQ. MI. FROM SANTA ROSA TO STEVENSON TO SAN ARDO. INTENSITY VI AT ALMA, APTOS, BENICIA, COYOTE, FELTON, FREEDOM, GILROY, MADRONE, MORGAN HILL, MOSS LANDING, MOUNTAIN VIEW, SAN CARLOS, ROCKAWAY BEACH, SAN JOSE, SAN MARTIN, SPRECKELS, WATSONVILLE, AND BEN LOMOND. V AT FORTY ADDITIONAL TOWNS.
6/23/1947	0- 8- 0.0	36.90	121.75	D		F III AT WATSONVILLE.
6/23/1947	0-26--0.	36.70	120.80	D	3.3	EAST OF LLANADA.
7/ 5/1947	6-41--0.	37.00	120.60	D		F SOUTH DOS PALOS.
7/ 7/1947	4-40--0.	36.77	121.62	A	4.3	F V AT HOLLISTER, IV AT MONTEREY, SAN MARTIN, SOUTH SAN FRANCISCO AND TASSAJARA HOT SPRINGS, I TO III AT APTOS, CASTROVILLE, CHUALAR CANYON, PINOLE, SALINAS AND SAUSALITO.
7/13/1947	5-35--0.	36.08	121.10	D	3.4	SOUTH OF KING CITY.
7/14/1947	5-40- 6.	35.92	119.92	C	4.0	F KETTLEMAN HILLS. IV AT KETTLEMAN CITY.
7/16/1947	8- 1-22.	36.00	118.08	C	2.7	NEAR HAIWEE.
7/22/1947	17-36--0.	37.20	122.25	C	2.4	SOUTH OF PALO ALTO.
7/24/1947	8-45--0.	38.65	119.75	D		F MARKLEEVILLE.
7/26/1947	7-55--0.	40.25	124.10	D		F UPPER MATTOLE. ALSO FELT AT SCOTIA.
7/27/1947	-0--0--0.	35.80	118.50	D		F TOBIAS PK., SEQUOIA NAT'L. FOREST.
7/31/1947	8-16--0.	40.70	125.70	C	4.4	OFF CAPE MENDOCINO.
8/ 8/1947	22- 2--0.	37.20	122.25	B	2.5	SOUTH OF PALO ALTO.
8/10/1947	21-58--0.	36.88	121.42	A	4.4	F VI AT HOLLISTER, V AT LOS BANOS CREEK, PINNACLES AND TRES PINOS. VI AT CHUALAR, GLENWOOD, MONTEREY, SALINAS AND SOLEDAD. III AT BIG SUR, GILROY, SAN ARDO AND SAN JUAN BATISTA.
8/13/1947	7-33--0.	36.92	121.35	A	3.1	NE OF HOLLISTER.
8/15/1947	0-15--0.	36.92	121.35	A	2.9	NE OF HOLLISTER.
8/16/1947	16-45--0.	37.60	121.80	D	2.5	NEAR PLEASANTON.
8/19/1947	13-31-56.	36.58	121.57	B	3.4	F IV AT CHUALAR CANYON. III 7 MILES SOUTH OF HOLLISTER.
8/21/1947	7-58--0.	36.88	121.42	B	3.4	NEAR HOLLISTER.
8/23/1947	9-29--0.	37.32	121.83	B	3.0	NEAR SAN JOSE.
8/24/1947	21-13--0.	36.88	121.42	B	3.2	AFTERSHOCKS AT 2121, 2136, AND 0004 (AUGUST 25).
9/ 8/1947	5-45--0.	39.30	120.20	D		F WASHOE VALLEY AND CARSON, NEVADA.
9/ 8/1947	5-52--0.	39.30	120.20	B	4.5	F NEAR TRUCKEE. FELT STRONGLY IN CARSON AND WASHOE VALLEY, NEV. ALSO FELT AT MARLETTE LAKE, MINDEN, AND RENO, NEV.
9/ 8/1947	6-20--0.	39.30	120.20	D		F WASHOE VALLEY, NEVADA.
9/ 8/1947	6-30--0.	39.30	120.20	D		F WASHOE VALLEY AND CARSON, NEVADA.
9/ 8/1947	7-13--0.	39.30	120.20	B	4.7	F FELT IN RENO AND WASHOE VALLEY. THREE SMALLER SHOCKS.
9/10/1947	22-30--0.	37.60	121.60	D	2.6	SE OF LIVERMORE.
9/20/1947	18- 1-52.0	36.87	121.87	B	3.8	F VI AT WATSONVILLE. FELT AT MOSS LANDING. AFTERSHOCK AT 21-00.
9/23/1947	6-20-40.	37.15	116.00		3.5	NW OF LAS VEGAS.
9/23/1947	13-52-55.	40.40	125.20	C	5.3	F FELT OVER LAND AREA OF 4,000 SQ. MI. FROM ORICK TO REDDING TO ELK. HEAVY VIBRATIONS FELT AT SEA AT 40 51 N, 124 45 W. VII AT PUNTA GORDA LT. STA. VI AT BRIDGEVILLE, EUREKA, FERNDALE, KNEELAND,

							FIELDS LANDING, AND UPPER MATTOLE. V AT 10 TOWNS.
9/25/1947	12-27-51.	36.87	122.18	B	3.7	F	IV AT SANTA CRUZ AND SOQUEL.
9/27/1947	7-40--0.	40.30	120.60	C	4.4		SOUTH OF SUSANVILLE.
10/ 1/1947	12-11--0.	40.60	122.40	D		F	REDDING.
10/ 2/1947	2-53--0.	40.25	124.10	D		F	V UPPER MATTOLE. IV FERNDALE, SCOTIA.
10/ 5/1947	5-23--0.	36.57	121.25	B	3.2		SE OF VINYARD.
10/ 6/1947	4-19--0.	37.27	121.77	C	2.9		SE OF SAN JOSE.
10/ 6/1947	18-99--0.	36.50	121.23	A	3.2		EAST OF GONZALES.
10/ 8/1947	14-25--0.	37.70	122.18	C	2.7	F	FELT IN SAN LEANDRO.
10/ 9/1947	8-36-48.	36.70	116.00	D	3.6		NW OF LAS VEGAS.
10/13/1947	5-40--0.	40.50	123.75	D		F	7 MI. NE OF BRIDGEVILLE.
10/15/1947	10-29--0.	37.30	121.80	D	2.1		NEAR SAN JOSE.
10/15/1947	17-52--0.	37.30	121.80	D	2.8		NEAR SAN JOSE.
10/21/1947	2-45-58.	37.33	121.97	C	2.9	F	FELT 6 MILES EAST OF SAN JOSE.
10/25/1947	0-29--0.	38.03	122.43	B	2.7		SAN PABLO BAY.
10/28/1947	23-59-37.	35.97	117.67	B	3.2		N OF CHINA LAKE.
10/30/1947	2-52-36.	35.82	118.18	B	3.0		SW OF HAIWEE.
10/31/1947	13-20--0.	37.70	122.33	C	2.5		FORESHOCK AT 1257. SAN FRANCISCO BAY.
11/ 2/1947	7- 1--0.	40.10	125.30	C	4.8		OFF CAPE MENDOCINO.
11/ 3/1947	8-15--0.	37.70	122.20	D		F	SAN LEANDRO.
11/ 3/1947	15-55-17.	35.92	117.53	B	3.3		N OF CHINA LAKE.
11/ 7/1947	6-50--0.	39.75	121.65	D		F	PARADISE.
11/10/1947	6-49-21.	39.80	122.70	D	3.9	F	IV AT CHROME. II AT PARADISE.
11/12/1947	8-20--0.	39.30	120.40	D		F	SODA SPRINGS.
11/12/1947	13-22-35.	37.28	121.85	C	1.9	F	VI IN ALUM ROCK DISTRICT, V 6 MILES SOUTHEAST OF SAN JOSE.
11/12/1947	21-27--0.	36.87	121.35	B	3.1		NEAR HOLLISTER.
11/15/1947	22-29-36.	36.78	122.12	B	4.1	F	IV AT SANTA CRUZ AND PFEIFFER BIG SUR STATE PARK.
11/17/1947	11-23--0.	37.67	122.05	C	2.5		NEAR HAYWARD.
11/25/1947	18- 0- 2.	39.30	119.80	C	4.0	F	FELT IN CARSON CITY, NEVADA.
11/26/1947	8-45--0.	37.00	121.10	D	3.3		NE OF HOLLISTER.
11/29/1947	5-15--0.	37.35	121.72	C	3.1		NEAR MT. HAMILTON.
12/ 1/1947	13- 3--0.	39.20	120.20	D	3.7		SOUTH OF TRUCKEE.
12/ 1/1947	19-25-22.	36.10	118.07	B	3.1		HAIWEE.
12/ 4/1947	21-22--0.	37.10	121.50	D	1.0		NE OF GILROY.
12/ 5/1947	0-35--0.	37.60	122.43	C	2.2		CRYSTAL SPRINGS RESERVOIR.
12/ 6/1947	2- 0--0.	37.60	122.43	C			TINY SIZE. CRYSTAL SPRINGS RESERVOIR.
12/ 8/1947	8-29--0.	36.87	121.35	C	3.0		NE OF HOLLISTER.
12/12/1947	1-48--0.	37.92	121.75	B	3.0		EAST OF CONCORD.
12/13/1947	8-35--0.	37.07	121.23	C	2.2		EAST OF GILROY.
12/14/1947	5-42--0.	36.45	121.08	B	3.4		SW OF LLANADA.
12/14/1947	13-43--0.	40.25	124.10	D		F	IV UPPER MATTOLE. ALSO FELT FERNDALE.
12/16/1947	9-21- 3.	36.25	120.77	C	3.6	F	IV AT SAN LUCAS.
12/18/1947	11-19-33.	37.07	121.68	A	3.4	F	IV AT MORGAN HILL.
12/18/1947	13-29--0.	37.07	121.68	A	3.1		NW OF GILROY.
12/18/1947	19-30- 6.	36.12	120.90	D		F	IV PARKFIELD.
12/19/1947	2-36-41.	36.35	117.48	C	3.5		SE OF LONE PINE.
12/23/1947	2- 2- 0.0	37.82	121.85	A	3.5	F	STRONGEST OF 16 SHOCKS, THIS EPICENTER RECORDED AT BERKELEY. 8 SHOCKS FELT IN SAN RAMON, DANVILLE, AND WALNUT CREEK.
12/24/1947	23-36-55.0	36.65	120.67	C	3.5		EAST OF PANOCHE.
12/25/1947	6- 5--0.	35.60	121.10	D		F	CAMBRIA.

12/25/1947	6-20--0.	35.60	121.10	D		F	CAMBRIA.
1/ 2/1948	8-35--0.	38.50	122.85	D		F	FULTON. LIGHT SHOCK.
1/ 4/1948	1-30-35.	35.83	117.73	C	3.5	F	SAND CANYON AODT. STA.
1/ 9/1948	16-26-47.	36.82	121.32	C	2.8	F	IV SEVEN MILES SOUTH OF HOLLISTER.
1/ 9/1948	21-56- 5.	36.70	121.28	C	3.5		SE OF VINEYARD.
1/10/1948	0-45-50.	42.00	127.00	D	5.3		OFF COAST, WEST OF CRESCENT CITY.
1/11/1948	5-37-28.	36.43	121.48	B	4.3	F	IV IN HOLLISTER.
1/14/1948	4-57- 1.	37.87	121.70	A	3.8	F	FELT OVER 3,000 SQ. MI. IN SAN JOAQUIN VALLEY. VI BRENTWOOD, BYRON, STOCKTON, WATERMAN. V HOLLISTER, HOLT, MANTECA.
1/24/1948	9-30- 0.0	36.35	119.35	D		F	VISALIA.
1/28/1948	21-11--0.	36.75	119.75	D		F	IV AT FRESNO.
1/28/1948	21-21--0.	36.75	119.75	D		F	IV AT FRESNO.
1/29/1948	22- 0--0.	38.75	120.70	D		F	IV AT CAMINO.
1/29/1948	22- 6--0.	36.75	119.75	D		F	IV AT FRESNO.
1/30/1948	22-15--0.	37.60	120.90	D		F	IV AT WATERFORD.
1/31/1948	2-54-54.	37.97	121.95	B	3.6	F	IV AT SAN RAMON.
1/31/1948	23-42-12.	40.70	122.35	D		F	IV AT CENTRAL VALLEY.
2/ 6/1948	13-14-13.	37.22	117.90	C	4.2	F	EAST OF BIG PINE. V AT BISHOP, LAWS, AND TINEMAHA RESERVOIR.
2/ 7/1948	10-55-48.	37.22	117.90	C	3.3		E OF BIG PINE.
2/ 9/1948	23-42-27.	40.60	122.40	D		F	REDDING.
2/10/1948	11-15--0.	37.50	117.80	D		F	9 MI. E OF OASIS.
2/11/1948	3-29-28.	36.10	118.80	C	4.9	F	FELT OVER AREA OF 18,000 SQ. MI. IN SAN JOAQUIN VALLEY AND SO. SIERRA NEVADAS. VI AT CLOVIS, DINUBA, DUCAR, FRESNO, KINGSBURG, MIRAMONTE, SPRINGVILLE, THREE RIVERS, TIPTON, WOODY. V AT COTTONWOOD GATES (LONE PINE), MIRACLE HOT SPRINGS, ORANGE COVE, POSEY, SEQUOIA NAT'L. PK. (ASH MTN.), WOODLAKE. IV AT 19 TOWNS.
2/15/1948	7-30--0.	36.85	118.15	D		F	IV NEAR INDEPENDENCE.
2/15/1948	8- 4- 6.	35.88	120.37	A	3.4		EAST OF PARKFIELD.
2/17/1948	6- 1-36.	41.00	125.00	D	4.0		OFF COAST, WEST OF EUREKA.
2/17/1948	19-52-36.	37.20	122.23	C	2.0		SOUTH OF PALO ALTO.
2/18/1948	18-56-39.	37.20	122.23	C	2.2		SOUTH OF PALO ALTO.
2/19/1948	8-25- 9.	41.00	124.90	C	4.8		OFF CAPE MENDOCINO. FELT AT EUREKA.
2/21/1948	4-19--0.	38.40	122.75	D		F	IV AT SANTA ROSA.
2/22/1948	1- 9- 2.	36.93	121.65	A	3.6	F	IV IN SAN MARTIN AND HOLLISTER.
2/22/1948	15- 5--0.	37.75	122.50	D		F	SAN FRANCISCO.
2/24/1948	2-12-57.	37.20	121.60	D	2.8		SOUTH OF MT. HAMILTON.
2/25/1948	16-45-53.	37.93	121.87	C	2.1		EAST OF CONCORD.
2/25/1948	19-18-58.	37.58	121.77	A	3.2		NEAR LIVERMORE.
3/ 7/1948	7-46-22.	36.10	120.40	D	3.0		NEAR COALINGA.
3/11/1948	21-19-53.	37.15	122.25	C	2.3		SOUTH OF PALO ALTO.
3/16/1948	11- 2-12.	37.58	121.83	B	2.3		SW OF LIVERMORE.
3/22/1948	9-13-28.	37.82	121.65	B	3.0	F	V IN BALLINGER CANYON, SAN RAMON.
3/22/1948	20-55-20.	37.18	122.28	C	2.2		SOUTH OF PALO ALTO.
3/27/1948	21- 9-36.	40.30	124.80	D	4.0	F	V FERNDALE. IV BENBOW AND MIRANDA.
3/28/1948	1-56-46.	37.80	122.10	D	1.2		SMALL SHOCK FROM SAME SOURCE AT 0719.
3/28/1948	18-26-20.	39.00	119.90	D	4.6	F	III IN RENO, NEVADA.
3/28/1948	22-36--0.	36.85	121.57	C	4.0	F	FORESHOCK OF 22-38-03. FELT REPORT SAME.
3/28/1948	22-38- 3.	36.85	121.57	A	4.6	F	FELT OVER AREA OF 4,100 SQ. MI. VI AT MONTEREY, MORGAN HILL, SALINAS. V AT DALY CITY, MONTARA, HOLLISTER, SANTA CRUZ.
3/28/1948	22-45--0.	36.85	121.57	C	4.5	F	AFTERSHOCK OF 22-38-03. FELT REPORT SAME.
3/29/1948	2-40--0.	35.85	121.40	D		F	IV AT HOLLISTER.

3/29/1948	9-34-25.	36.80	121.43	C	2.8	NEAR HOLLISTER.
4/ 2/1948	3- 1-10.	37.88	122.53	C	2.0	NW OF SAN FRANCISCO.
4/ 2/1948	11-24-47.	36.90	121.60	D	2.3	EAST OF WATSONVILLE.
4/ 3/1948	7- 5--0.	40.85	124.15	D		F IV AT EUREKA.
4/ 3/1948	15-45--0.	36.60	121.60	D		F CHUALAR CANYON. SLIGHT SHOCK.
4/ 4/1948	12-18-34.	37.07	121.47	C	3.4	NE OF GILROY.
4/ 5/1948	15-29-51.	38.00	122.00	D	2.8	F IV IN MARTINEZ. (BSSA, JULY 1948.)
4/ 9/1948	20-55-12.	36.73	121.38	C	2.8	NEAR VINEYARD.
4/14/1948	19-56-59.	36.77	121.97	B	3.3	MONTEREY BAY.
4/17/1948	1-11- 4.	37.03	121.78	C	2.8	NORTH OF WATSONVILLE.
4/17/1948	20-55--0.	36.85	118.15	D		F INDEPENDENCE.
4/18/1948	21-25-10.	38.17	122.53	C	3.6	F NO. SAN FRANCISCO BAY AREA. VI IN FAIRFAX. ALSO FELT IN KENTFIELD, PETALUMA, RICHMOND, SAN ANSELMO, SAN FRANCISCO, SAN RAFAEL, AND VALLEJO.
4/20/1948	23-32--0.	41.00	122.00	D		F PIT RIVER POWERHOUSE AND CAMP.
4/21/1948	10-55- 1.	37.40	121.55	B	3.0	NE OF MT. HAMILTON.
4/22/1948	19-37--0.	38.00	122.50	D		F FAIRFAX. VERY SLIGHT SHOCK.
4/26/1948	20-57-23.	37.22	122.23	C	1.8	SOUTH OF PALO ALTO.
4/27/1948	16-41- 8.	36.77	121.27	A	4.0	EAST OF VINEYARD.
4/27/1948	20-22-25.	36.77	121.27	A	4.4	F VI AT HOLLISTER. ALSO FELT AT BIG SUR, CHUALAR, MORGAN HILL, BEN LOMOND, AND SALINAS. 38 AFTERSHOCKS WERE RECORDED AT MT. HAMILTON, AT LEAST 8 OF WHICH WERE FELT.
4/28/1948	7-30--0.	36.75	121.40	D		F V AT HOLLISTER.
5/ 4/1948	2-34-15.	37.85	122.22	C	2.4	F IV IN EAST OAKLAND.
5/ 7/1948	12- 3-42.	36.20	121.90	D	3.0	WEST OF PRIEST.
5/ 9/1948	6- 3- 1.	37.40	122.00	D	2.3	NEAR SAN JOSE.
5/ 9/1948	12-45--0.	36.75	121.40	D		F IV AT HOLLISTER.
5/11/1948	10-45--0.	36.78	121.40	D		F IV TO V 7 MI. S OF HOLLISTER.
5/12/1948	10-57- 2.	37.80	122.20	D	2.0	OAKLAND HILLS.
5/12/1948	17- 2-29.	37.22	122.23	C	1.9	SOUTH OF PALO ALTO.
5/13/1948	13-54- 6.	35.63	121.02	C	3.3	NEAR LLANADA.
5/14/1948	2-17-32.	36.78	121.60	B	3.3	NEAR SAN JUAN BAUTISTA.
5/23/1948	14-29-31.	37.18	122.28	C	3.5	SOUTH OF PALO ALTO.
5/21/1948	16-01-21.	38.00	122.30	D	1.7	NORTH OF RICHMOND.
5/22/1948	9-33-53.	36.78	121.40	B	2.8	F IV 7 MILES SOUTH OF HOLLISTER.
5/22/1948	20-10-48.	37.08	121.48	B	3.1	NE OF GILROY.
5/24/1948	5-52-12.	36.65	121.40	C	3.2	SOUTH OF VINEYARD.
5/24/1948	17- 1-56.	37.83	122.58	C	2.4	NW OF SAN FRANCISCO.
5/24/1948	18-34-44.	37.03	121.77	C	2.1	NORTH OF WATSONVILLE.
5/25/1948	23-20--0.	36.50	118.85	D		F KEELER.
6/ 7/1948	14-23-15.	36.78	121.72	C	2.5	SE OF WATSONVILLE.
6/ 7/1948	15- 5-22.	37.20	118.70	C	4.2	F WEST OF BIG PINE. V AT BISHOP.
6/ 7/1948	15-49- 0.	36.78	121.72	C	3.2	SE OF WATSONVILLE.
6/ 8/1948	3-27-14.	36.78	121.72	C	2.8	SE OF WATSONVILLE.
6/10/1948	7-25--0.	37.40	118.40	D		F IV AT BISHOP AND LAWS.
6/11/1948	4-28-11.	36.60	121.20	D	4.0	SE OF VINEYARD.
6/11/1948	11-52- 0.	36.60	121.20	D	3.5	SE OF VINEYARD.
6/12/1948	21-18-28.	37.92	122.18	B	2.2	SOUTH OF CONCORD.
6/14/1948	12- 5-36.	37.15	121.77	C	2.5	WEST OF MORGAN HILL.
6/15/1948	12-36-35.	37.32	118.77	C	3.8	W OF BISHOP.
6/17/1948	0-53-47.	36.12	117.87	B	3.4	F NEAR HAIWEE. FELT HAIWEE AND COSO JUNCTION. 9 SHOCKS FELT AND ABOUT 40 SMALLER ONES RECORDED AT HAIWEE.

6/17/1948	0-55-49.	36.12	117.87	B	3.0	F	NEAR HAIWEE.
6/17/1948	1-10-14.	36.12	117.87	B	2.6	F	NEAR HAIWEE.
6/18/1948	10-35- 0.	39.07	123.28	C	3.8	F	VI AT LAKEPORT, TALMADGE, UKIAH. V AT CALPELLA, CLEARLAKE OAKS, FINLEY, POTTER VALLEY, REDWOOD VALLEY, UPPER LAKE.
6/19/1948	5-40--0.	39.00	122.90	D		F	LAKEPORT. SLIGHT SHOCK.
6/20/1948	4-25-17.	36.78	121.45	C	2.3		NEAR VINEYARD.
6/20/1948	20-34-38.	36.95	121.67	B	3.2	F	IV AT WATSONVILLE.
6/24/1948	3-51--0.	40.35	124.25	D		F	V PETROLIA. IV FERNDALE AND SCOTIA.
6/24/1948	7- 6-52.	36.58	121.10	B	3.2		WEST OF LLANADA.
6/24/1948	16-49-11.	36.58	121.10	B	3.2		WEST OF LLANADA.
6/25/1948	11-26- 8.	36.58	121.10	B	3.2		WEST OF LLANADA.
6/26/1948	19-10-29.	35.82	118.05	B	3.0		S OF HAIWEE.
6/30/1948	0-29-42.	38.03	122.82	C	2.2		NEAR POINT REYES STATION.
6/30/1948	9-56-29.	37.23	121.47	C	3.1		SE OF MT. HAMILTON.
7/ 1/1948	12- 8--0.	36.50	117.00	D		F	WEST CENTRAL DEATH VALLEY NAT'L. MON.
7/ 5/1948	9-18-32.	37.70	121.80	D	1.7		WEST OF LIVERMORE.
7/ 5/1948	10-14--0.	40.50	121.65	D		F	V MANZANITA LAKE (LASSEN VOL. NAT'L. PK.).
7/ 8/1948	1-15--0.	39.00	122.90	D		F	LAKEPORT.
7/ 8/1948	2-36-23.	37.82	122.57	B	2.9	F	IV IN SAN FRANCISCO, III IN BERKELEY AND ROSS. TINY AFTERSHOCKS AT 0308 AND 0910.
7/11/1948	19-58-43.	37.28	121.77	B	3.6		SW OF MT. HAMILTON.
7/13/1948	11- 2-48.	40.60	122.40	D		F	IV AT REDDING.
7/15/1948	4-10-54.	37.72	121.72	C	2.1		NORTH OF LIVERMORE.
7/17/1948	15- 7-40.	36.93	121.55	B	3.5		NEAR GILROY.
7/18/1948	1- 7-59.	36.60	121.33	B	3.0		NW OF GONZALES.
7/20/1948	5-30-22.	37.20	121.80	D	2.3		SE OF SAN JOSE.
7/20/1948	8-11-41.	37.45	121.82	B	3.7	F	VI MILPITAS. V COYOTE, GILROY, SAN JOSE. IV AGNEW, APTOS, BOULDER CREEK, HOLY CITY, MISSION SAN JOSE, NILES, SAN FRANCISCO, SAN RAFAEL, SARATOGA.
7/21/1948	21-29-17.	37.88	122.27	B	2.4	F	IV IN BERKELEY. DEPTH ABOUT 6 KM.
7/24/1948	13-23-20.	40.33	124.97	C	4.2		OFF CAPE MENDOCINO.
7/26/1948	2-23-30.	36.65	121.28	C	2.6		SE OF VINEYARD.
7/26/1948	3-23-47.	37.20	121.87	C	2.4		SOUTH OF SAN JOSE.
7/28/1948	1-30-57.	36.05	120.53	C	3.1		SE OF PRIEST.
7/29/1948	13-16-23.	35.12	120.47	C	3.4		E OF SAN LUIS OBISPO.
8/ 1/1948	21-21- 2.	36.88	121.55	B	3.3		NEAR SAN JUAN BAUTISTA.
8/ 3/1948	16-40- 3.	36.82	121.73	B	3.4		SOUTH OF WATSONVILLE.
8/ 4/1948	7-39--0.	37.42	118.95	C	3.3		W OF BISHOP.
8/ 4/1948	10-22-57.	35.92	120.33	C	3.6		PARKFIELD.
8/ 6/1948	4-22-57.	37.45	118.58	C	4.3	F	WEST OF BISHOP. IV AT BISHOP AND SEQUOIA NATIONAL PARK.
8/ 6/1948	23-20- 3.0	38.12	119.55	D	3.3		WEST OF MONO LAKE.
8/ 7/1948	0-10-46.	36.90	121.62	B	3.6		EAST OF WATSONVILLE.
8/ 8/1948	17-47- 9.	40.42	124.12	C	3.0		SOUTH OF SCOTIA.
8/ 9/1948	11-44-49.	40.42	124.12	C	3.3		SOUTH OF SCOTIA.
8/10/1948	7- 2-47.	37.85	121.87	A	3.0	F	V IN SAN RAMON.
8/18/1948	19-11-57.	40.50	124.70	D	5.0	F	V IN EUREKA, FERNDALE, FIELDS LANDING AND LOLETA. FELT ALONG THE COAST FROM ORICK TO PUNTA GORDA.
8/19/1948	10-54--0.	40.75	124.10	D		F	EUREKA AND SCOTIA.
8/20/1948	5-53-41.	37.40	121.60	D	2.5		NEAR MT. HAMILTON.
8/26/1948	6-55--0.	37.35	118.40	D		F	BISHOP.
8/27/1948	20-59-45.	39.60	120.80	D	4.0		NEAR DOWNIEVILLE.

8/29/1948	11-25-57.	36.80	116.55	C	3.4		NW OF LAS VEGAS.
8/30/1948	19- 2-21.	36.55	116.17	C	4.0		SOUTHEAST OF BEATTY, NEVADA.
8/31/1948	16-31-14.	37.48	121.78	B	3.3		SOUTH OF LIVERMORE.
9/ 1/1948	21-27-47.	38.33	122.58	B	3.3	F	FELT IN SANTA ROSA AND COTATI.
9/ 2/1948	20- 3-29.	36.73	121.28	C	2.8		WEST OF VINEYARD.
9/ 2/1948	22-39-16.	37.18	122.23	C	2.5		SOUTH OF PALO ALTO.
9/ 8/1948	4-28-13.	40.25	124.27	B	4.0	F	NEAR PETROLIA. III IN EUREKA.
9/ 9/1948	3-29--0.	37.43	118.77	C	3.6		W OF BISHOP.
9/11/1948	12-17-39.	36.72	119.33	C	2.9	F	V AT MIRAMONTE AND PINEHURST.
9/27/1948	6-28-13.	37.47	121.82	C	2.7		NE OF SAN JOSE.
10/ 1/1948	1-11-21.	36.83	116.45	D	3.6		NW OF LAS VEGAS.
10/ 3/1948	9- 9-38.	37.83	122.58	B	1.9		NW OF SAN FRANCISCO. DEPTH ABOUT 12 KM.
10/ 8/1948	1-26-23.	37.43	121.73	A	3.0		NW OF MT. HAMILTON. DEPTH ABOUT 17 KM.
10/ 9/1948	16- 0--0.	36.60	118.10	D		F	LONE PINE AND KELLES.
10/10/1948	11-21- 8.	36.90	121.80	D	2.9	F	V AT MOSS LANDING, IV AT WATSONVILLE.
10/13/1948	0-23--0.	38.50	122.50	D		F	V AT ST. HELENA.
10/14/1948	0-57-22.	35.83	118.47	C	2.7	F	KERN RIVER POWERHOUSE NO. 3.
10/14/1948	9-51-23.	37.37	121.53	C	2.5		NE OF MT. HAMILTON.
10/16/1948	0- 6-53.	40.27	124.27	B	3.9		NEAR PETROLIA.
10/17/1948	5-21-47.	37.72	122.53	B	2.1	F	DEPTH ABOUT 15 KM. IV AT DALY CITY AND SAN FRANCISCO.
10/20/1948	7-33-18.	36.82	121.63	C	2.6		NEAR SAN JUAN BAUTISTA.
10/20/1948	14-41-50.	37.20	122.20	D	2.4		SOUTH OF PALO ALTO.
10/21/1948	23-42-31.	37.72	122.53	C	1.8		NEAR SAN FRANCISCO. DEPTH ABOUT 15 KM. SIX SMALL AFTERSHOCKS RECORDED AT BERKELEY.
10/23/1948	23-21-34.	37.42	121.72	A	3.3		NW OF MT. HAMILTON.
10/29/1948	19- 1-15.	37.20	122.20	D	2.5		SOUTH OF PALO ALTO.
11/ 8/1948	18- 3-45.	37.20	122.20	D	2.5		SOUTH OF PALO ALTO.
11/ 8/1948	23- 4-45.	37.40	121.70	D	2.0		NEAR MT. HAMILTON.
11/11/1948	1-27--0.	37.50	120.00	D		F	V AT EL PORTAL, EXCHEQUER DAM, MARIPOSA, AND MIDPINES. IV AT BEN HUR, BIG OAK FLAT, CATHAY, COULTERVILLE, INCLINE, MOUNT BULLION, PLANADA, TUOLUMNE, AND YOSEMITE NATIONAL PARK.
11/12/1948	12-47--0.	39.55	119.80	D		F	RENO, NEVADA.
11/12/1948	23-10-25.	40.40	124.32	B	4.5	F	FELT AT PETROLIA.
11/13/1948	12-54--0.	39.55	119.80	D		F	RENO, NEVADA.
11/14/1948	4-43-50.	37.20	121.70	C	2.4		NEAR MORGAN HILL.
11/14/1948	12-33--0.	39.75	121.85	D		F	CHICO.
11/15/1948	7-32- 9.	37.72	122.25	C	2.2		OAKLAND.
11/15/1948	23-25- 1.	37.20	122.20	D	2.4		SOUTH OF PALO ALTO.
11/22/1948	19- 4-44.	37.20	122.20	D	2.4		SOUTH OF PALO ALTO.
11/25/1948	21-34-52.	37.57	121.95	B	2.8		SE OF HAYWARD.
12/ 1/1948	22-43-25.	37.20	122.20	D	1.8		SOUTH OF PALO ALTO.
12/ 5/1948	3-55--0.	40.40	123.60	D		F	E OF BRIDGEVILLE. V AT HYAMPOM.
12/ 5/1948	16-35--0.	40.40	123.60	D		F	E OF BRIDGEVILLE. FELT AT HYAMPOM.
12/ 5/1948	17-29-22.	40.40	123.60	D	4.1	F	EAST OF BRIDGEVILLE. ONE OF FIVE SHOCKS RECORDED AT ARCATA ON DECEMBER 5. FELT AT HYAMPOM.
12/ 7/1948	18- 2-59.	37.20	122.20	D	2.5		SOUTH OF PALO ALTO.
12/12/1948	12- 8-52.	37.10	121.50	D	2.4		NE OF GILROY.
12/18/1948	2-19-40.	39.90	119.90	D	3.0		NORTH OF RENO, NEVADA.
12/20/1948	4-42-46.	35.80	121.50	C	4.5	F	OFF COAST, NEAR PIEDRAS BLANCAS POINT. III AT SAN SIMEON.
12/27/1948	12-45--0.	39.25	120.00	D		F	V AT VIRGINIA CITY, NEVADA. ALSO FELT AT

							OROVILLE AND TAHOE PINES.
12/28/1948	2-25-42.	39.55	120.08	D		F	STRONG FORESHOCK OF 12-53-38. FELT REPORT ABOUT SAME AS AT 5-26-08.
12/28/1948	5-26- 8.	39.55	120.08	D		F	STRONGEST OF SEVERAL FORESHOCKS OF 12/29/48, 12-53-38. VI AT EMIGRANT GAP (LAKE SPAULDING). V AT BIJOU, TAHOE, GEORGETOWN, PLACERVILLE, AND TROWBRIDGE, AND CRYSTAL BAY, RENO, AND VERDI, NEV. IV AT BAXTER, COLFAX, FORESTHILL, FULLER LAKE, LONG BARN, POLLOCK PINES, VINTON, TRUCKEE, AND WESTPOINT, AND STEAMBOAT AND WELLINGTON, NEVADA.
12/29/1948	12-53-28.	39.55	120.08	B	6.0	F	VERDI FAULT, W OF VERDI, NEV. FELT OVER 40,000 SQ. MI. 5 FORESHOCKS WERE FELT AT RENO ON DEC. 27, AND MORE THAN 750 AFTERSHOCKS, MANY FELT IN RENO, WERE RECORDED AT THE UNIV. OF NEVADA BEFORE NOON OF JAN. 1, 1949. INTENSITY VII AT FLORISTON AND CHILCOOT, CALIF., AND RENO AND VERDI, NEV. VI AT BAXTER, BIJOU, ISLETON, KINGS BEACH, LOYALTON, MEEKS BAY, SIERRAVILLE, SLOUGHHOUSE, TAHOE, TRUCKEE, AND VINTON, CALIF., AND CARSON CITY, CAMP RICHARDSON, DOBBINS, GARDEN VALLEY, LONG VALLEY, NORDEN, AND SPARKS, NEV.
12/30/1948	6- 0--0.	38.65	119.75	D		F	MARKLEEVILLE. LIGHT SHOCK.
12/31/1948	14-17-23.0	35.67	121.40	D	3.9	F	FORESHOCK OF 14-35.
12/31/1948	14-35-46.	35.67	121.40	B	4.6	F	FELT ALONG THE COAST FROM LOMPOC TO MOSS LANDING. VI AT SAN SIMEON. V AT CAYUCOS, CRESTON, MOSS LANDING, PIEDRAS BLANCAS LIGHT STATION.
1/ 1/1949	0-35-52.0	35.67	121.40	D	3.8		AFTERSHOCK OF14-35.
1/ 1/1949	1-17-54.	36.90	121.62	B	4.5	F	FELT OVER AREA OF 3,500 SQ. MI. IN COASTAL CENTRAL CALIFORNIA. VII IN A SMALL REGION NEAR THE PAJARO RIVER NEAR CHITTENDEN. VI AT HOLLISTER AND SANTA CRUZ. V AT SAN FRANCISCO. IV FROM OAKLAND TO BIG SUR TO KING CITY.
1/ 1/1949	14-30-42.	36.90	121.70	C	3.0	F	AFTERSHOCK OF 1/1/49, 1-17-54. IV 7 MILES SOUTH OF HOLLISTER.
1/ 2/1949	22- 3-54.	38.70	119.00	D	4.5	F	WEST OF WALKER LAKE, NEVADA. IV AT SCHURZ, NEVADA.
1/ 6/1949	19- 1-40.	37.20	122.20	D	2.5		SOUTH OF PALO ALTO.
1/ 7/1949	22-18--0.	37.10	118.30	D		F	IV 7 MI. S OF BIG PINE AND TINEMAHA RES.
1/ 8/1949	3-39-21.	39.55	120.08	B	4.3	F	AFTERSHOCK OF 12/29/48, 12-53-28. FELT STRONGLY IN RENO-VERDI, NEV. AREA. ALSO FELT PEAVINE MT., LONG VALLEY, LOYALTON
1/ 8/1949	3-56-24.	39.55	120.08	B	3.8	F	AFTERSHOCK OF 12/29/48, 12-53-28. SAME FELT REPORT AS 3-39-21.
1/10/1949	16-57--0.	39.55	120.00	D		F	RENO AND VERDI, NEVADA.
1/12/1949	0-45--0.	39.55	120.00	D		F	VERDI, NEVADA.
1/14/1949	23-19-53.	37.20	122.20	B	2.4		SOUTH OF PALO ALTO.
1/20/1949	7-59-23.	39.55	120.08	B	4.8	F	AFTERSHOCK OF 12/29/48, 12-53-28. IV AT BAXTER AND RENO, NEV. ALSO FELT IN TRUCKEE AND GRASS VALLEY AREA, NEV. AND AT GRIZZLY FLATS AND QUINCY, CALIF.
1/24/1949	0-10-32.	36.63	121.33	C	3.7	F	IV SEVEN MILES SOUTH OF HOLLISTER.
1/24/1949	4-57-11.	37.72	122.07	B	2.1		EAST OF OAKLAND.
1/28/1949	10- 6-23.	36.37	116.92	C	3.2		NW OF LAS VEGAS.
1/29/1949	9-26-58.	37.92	122.07	B	2.0		NEAR CONCORD. DEPTH ABOUT 16 KM.
1/30/1949	21-44-25.	37.72	122.07	C			SMALL FORESHOCK OF 22-55-44 AND 23-45-36.
1/30/1949	22-55-44.	37.72	122.07	A	2.8	F	DEPTH ABOUT 16 KM. FELT AT CASTRO VALLEY, OAKLAND, ASHLAND, SAN LORENZO, AND POINTS SOUTH. (BSSA, APRIL 1949).
1/30/1949	23-45-36.	37.72	122.07	A	3.0	F	SAME DESCRIPTION AS FOR 22-55-44.
1/31/1949	6-38-18.	36.90	121.70	C	3.1	F	EAST OF WATSONVILLE. DEPTH ABOUT 10 KM.
1/31/1949	22-58-56.	36.78	121.58	C	3.3		NE OF SALINAS. DEPTH ABOUT 10 KM.
2/ 9/1949	14-38-55.	36.90	121.70	C	2.4		EAST OF WATSONVILLE. DEPTH ABOUT 10 KM.

2/ 9/1949	14-55-47.	37.17	121.43	C	2.7		NE OF GILROY.
2/10/1949	21-16-21.	37.57	122.02	B	2.3		SE OF HAYWARD.
2/11/1949	21- 5-24.	37.08	117.75	C	5.6	F	E OF TINEMAHA. FELT OVER 18,000 SQ. MI. IN S CENTRAL CALIF. AND SW NEV. VI AT ASH MTN., BAKERSFIELD, BIG PINE, FRESNO, CORCORAN, INDEPENDENCE, HANFORD, LONE PINE, AND OLANCHA. V AT DEATH VALLEY, LAWS, MINERALKING, OWENYO, PINEHURST, AND PORTERVILLE. I TO IV FROM MODESTO TO MOJAVE TO GOLDFIELD, NEVADA.
2/12/1949	2-56-16.	37.62	121.95	D	3.4	F	E OF HAYWARD. FELT SAN FRANCISCO BAY AREA
2/12/1949	5-25-56.	37.08	117.75	C	3.8		NE OF LONE PINE.
2/12/1949	19-13-36.	36.87	118.53	C	3.5		NE OF LONE PINE.
2/12/1949	22-39-34.	36.77	121.58	C	3.1		NE OF SALINAS.
2/24/1949	0-37-45.	38.05	122.48	D	1.6		NE OF SAN RAFAEL.
2/24/1949	11-49-33.	40.40	126.10	D	4.7		OFF CAPE MENDOCINO.
2/25/1949	2-28- 2.	36.90	120.70	D	3.9	F	FELT AT LOS BANOS.
2/25/1949	5-42--0.	41.00	122.00	D		F	PIT RIVER POWERHOUSE NO. 3. LIGHT SHOCK.
2/25/1949	11-20--0.	41.00	122.00	D		F	PIT RIVER POWERHOUSE NO. 3. LIGHT SHOCK.
2/26/1949	8-30- 4.	37.20	118.70	D	3.6		SW OF BISHOP.
2/26/1949	16-10--0.	39.55	120.00	D		F	RENO AND VERDI, NEVADA.
2/27/1949	13-35-47.	41.20	125.20	D	4.8		OFF COAST, NW OF EUREKA.
3/ 3/1949	3-23--0.	39.25	121.50	D		F	LIGHT SHOCKS IN STRAWBERRY VALLEY (YUBA CO.) REPORTED FELT AT 0323, 0502, AND 1030, AND ON 3/4/49 AT 1210.
3/ 7/1949	17-42-20.	37.20	122.20	D	2.0		SOUTH OF PALO ALTO.
3/ 8/1949	8-53-47.	37.73	118.45	C	3.7		N OF BISHOP.
3/ 9/1949	3- 0--0.	38.45	123.10	D		F	JENNER.
3/ 9/1949	12-28-39.	37.02	121.48	B	5.2	F	FELT OVER AN AREA OF 20,000 SQUARE MILES ALONG THE PACIFIC COAST OF CENTRAL CALIFORNIA FROM SANTA ROSA SOUTH TO SANTA MARGARITA. DAMAGE WAS CONFINED MOSTLY TO THE CITY OF HOLLISTER, WHERE THE INTENSITY WAS RATED AS VII (FALL OF SOME CHIMNEYS, SOME DAMAGE TO BUILDINGS). VI AT ALAMEDA, ALVISO, APTOS, BEN LOMOND, BERKELEY, CARUTHERS, CASTROVILLE, CHUALAR, COYOTE, FAIRFAX, FELTON, FOREST KNOLLS, GILROY, HALF MOON BAY, HAYWARD, LA HONDA, LOMA MAR, LOS BANOS, MADRONE, MORGAN HILL, MT. HERMON, MOSS LANDING, NEWARK, NILES, OAKLAND, PALO ALTO, PESCADERO, PINOLE, REDWOOD CITY, SALINAS, SAN ANSELMO, SAN FRANCISCO, SAN GREGORIO, SAN JOSE, SAN MARTIN, SAN RAMON, SANTA CRUZ, SAUSALITO, SEASIDE, SHARP PEAK, SOLEDAD, SOQUEL, SPRECKELS, SUNNYVALE, TRES PINOS, WALNUT CREEK, AND WATSONVILLE.
3/ 9/1949	12-57-28.	37.02	121.48	B	3.3		AFTERSHOCK OF QUAKE AT 1228.
3/11/1949	14-54-16.	37.73	118.45	C	3.6		N OF BISHOP.
3/13/1949	20-37-56.	37.02	121.48	B	3.1	F	FORESHOCK OF QUAKE ON MARCH 14 AT 0610. MINOR FORESHOCK AT 1530. FELT AT SAN MARTIN.
3/14/1949	-0--0--0.	39.55	120.00	D		F	RENO, NEV. ABOUT 400 EARTHQUAKES RECORDED SINCE 12/29/49, 12-53-38. (BSSA, APRIL, 1949.)
3/14/1949	6-10-15.	37.02	121.48	B	4.4	F	AFTERSHOCK OF 3/4/49, 12-28-39. VI AT GILROY, HOLLISTER, AND MORGAN HILL. V AT ALVISO, APTOS, BOLINAS, FIREBAUGH, MADRONE, MOSS BEACH, REDWOOD CITY, SAN FRANCISCO, SAN JOSE, SAN MARTIN, SANTA CRUZ, SARATOGA, SUNNYVALE, AND WATSONVILLE.
3/22/1949	13- 0--0.	40.60	124.25	D		F	FERNDALE. SHARP SHOCK.
3/24/1949	18- 3--0.	37.10	121.65	D		F	SAN MARTIN. LIGHT SHOCK.
3/24/1949	20-56-56.	41.30	126.00	D	5.9	F	USCGS EPICENTER 42 N, 126.5 W. FELT AT SEVERAL LOCATIONS ALONG THE OREGON AND CALIFORNIA COAST.
3/25/1949	4-56-48.	42.00	126.50		6.2	F	OFF COAST, WEST OF CRESCENT CITY. FELT AT GRANTS PASS, OREGON.
3/29/1949	15-26-36.	36.90	121.47	C	3.0		NORTH OF HOLLISTER.

4/ 5/1949	4-36--0.	40.60	122.40	D		F	IV TO V AT REDDING AND TOYON.
4/13/1949	7-58-25.	37.30	118.60	D	4.9	F	SW OF BISHOP. IV AT BISHOP AND YOSEMITE PARK.
4/16/1949	10-55--0.	36.75	121.40	D		F	IV 7 MI. S OF HOLLISTER.
4/18/1949	1-33- 7.	37.62	121.50	B	1.9		EAST OF LIVERMORE.
4/22/1949	3-48--0.	38.75	123.50	D		F	IV AT GUALALA (FISH ROCK).
4/23/1949	9-18- 9.	36.38	121.37	C	3.7		NORTH OF PARAISO.
4/26/1949	19-59-43.	37.18	122.20	A	2.5		SOUTH OF PALO ALTO.
4/28/1949	23-35-14.	36.93	121.80	B	3.3	F	IV AT WATSONVILLE, III AT MOSS LANDING. DEPTH ABOUT 10 KM.
4/29/1949	5-31-47.	37.65	121.77	B	2.8		SW OF LIVERMORE.
5/ 4/1949	1-34- 3.	40.40	124.30	D	4.1	F	FELT OVER 900 SQ. MI. IN SO. HUMBOLDT CO. V AT CAPE MENDOCINO LT. STA., FERNDALE, AND FIELDS LANDING. IV AT ALDERPOINT, BRICELAND, FORTUNA, HONEYDEW, HOLMES, PETROLIA, SCOTIA, AND WEOTT.
5/ 5/1949	13-50-51.	39.87	121.03	B	3.6		NEAR AUBURN.
5/10/1949	6-20--0.	35.90	120.40	D		F	SANTA MARIA. SLIGHT.
5/10/1949	11- 0--0.	35.90	120.40	D		F	SANTA MARIA. SLIGHT.
5/10/1949	11-34-56.	37.02	121.57	C	2.7	F	NEAR GILROY. IV AT SAN MARTIN.
5/10/1949	12-27- 2.	36.92	121.75	C	2.5	F	NEAR WATSONVILLE. IV AT SAN MARTIN.
5/10/1949	17- 2-36.	36.92	121.75	C	2.7		NEAR WATSONVILLE.
5/13/1949	2-19-34.	40.70	124.70	D	4.3		OFF CAPE MENDOCINO.
5/17/1949	23-57-55.	35.63	121.15	D	4.1	F	IV AT SAN SIMEON.
5/18/1949	5-57- 1.	35.87	118.50	B	3.2		IV AT KERN RIVER POWERHOUSE NO. 3. ALSO FELT AT KERNVILLE.
5/22/1949	3-34-34.	37.08	121.87	B	2.9		NE OF SANTA CRUZ.
5/22/1949	8-27-15.	36.60	121.50	D		F	LONOAK.
5/24/1949	1-51-16.	37.10	122.10	D	1.8		NW OF SANTA CRUZ.
5/25/1949	5- 6-48.	36.95	121.73	B	2.3		NORTH OF WATSONVILLE.
5/26/1949	4-43--0.	36.80	121.40	D		F	IV NEAR HOLLISTER.
5/27/1949	4-22-33.	35.83	117.72	B	3.0		CHINA LAKE AREA.
5/28/1949	17-58-35.	36.53	121.22	B	3.5		SE OF VINEYARD.
5/28/1949	23- 5-34.	36.53	121.22	B	3.2		SE OF VINEYARD.
5/29/1949	0-34-40.	36.53	121.22	B	3.1		SE OF VINEYARD.
5/30/1949	23-47-15.	37.15	121.97	C	2.2		SOUTH OF LOS GATOS.
6/ 4/1949	0-45--0.	36.75	121.40	D		F	IV 7 MI. S OF HOLLISTER.
6/ 9/1949	18-59-46.	37.20	122.20	D	2.2		SOUTH OF PALO ALTO.
6/10/1949	3- 6-40.	37.30	121.67	B	4.6	F	FELT OVER 8,000 SQ. MI. IN W CENTRAL CALIF VI AT SAN JOSE. V AT MORGAN HILL, MT. HAMILTON, SAN FRANCISCO. IV AT ALAMEDA, BEN LOMOND, BURLINGAME, CASTRO VALLEY, FAIRFAX, GILROY, HOLLISTER, LA HONDA, LIVERMORE, LOS GATOS, NAPA, OAKLAND, PETALUMA, PINNACLES, REDWOOD CITY, SAN RAFAEL, SANTA CRUZ, SHARP PARK.
6/14/1949	4-54-12.	36.05	117.33	C	3.5		NE OF CHINA LAKE.
6/16/1949	3-47-34.	36.75	121.67	B	3.9	F	IV AT HOLLISTER AND SAN JUAN BAUTISTA. DEPTH ABOUT 7 KM.
6/16/1949	6-24-28.	36.33	116.83	B	3.7		DEATH VALLEY.
6/16/1949	20- 0-30.	37.20	122.20	D	2.4		SOUTH OF PALO ALTO.
6/17/1949	22-30--0.	36.75	119.75	D		F	IV AT FRESNO.
6/22/1949	18- 8-46.	37.33	121.68	B	4.1	F	FELT AT SAN FRANCISCO, SAN MATEO AND SAN JOSE. DEPTH ABOUT 7 KM.
6/27/1949	10-35-31.	35.80	121.10	D	4.5	F	V AT SAN ARDO AND SAN MIGUEL. ALSO FELT AT SAN LUIS OBISPO, SANTA MARGARITA, AND PASO ROBLES.
6/28/1949	8-41- 8.	37.33	121.68	C	2.3		NEAR MT. HAMILTON.

7/ 6/1949	19-56-54.	37.20	122.20	D	2.3		SOUTH OF PALO ALTO.
7/ 8/1949	11- 0--0.	37.85	122.20	D		F	IV AT ST. MARY'S COLLEGE.
7/ 9/1949	16-45-34.	36.80	121.70	D	2.5		WEST OF SAN JUAN BAUTISTA.
7/ 9/1949	20-31-34.	35.78	117.98	B	3.0		W OF CHINA LAKE.
7/10/1949	15-17- 7.	36.90	121.50	C	3.0		SE OF GILROY.
7/15/1949	4-50--0.	36.75	119.75	D		F	FRESNO.
7/18/1949	15-31- 5.	39.70	119.80	D	4.5		NORTH OF RENO, NEVADA.
7/21/1949	16-50--0.	36.15	120.35	D		F	IV AT COALINGA.
7/21/1949	17- 1--0.	36.15	120.35	D		F	IV AT COALINGA.
7/23/1949	13-58- 5.	37.25	121.73	B	2.3		SW OF MT. HAMILTON.
7/23/1949	16- 7-44.	40.00	120.00	D	2.8		SOUTHERN WASHOE COUNTY, NEVADA.
7/24/1949	3- 4- 5.	36.00	120.00	D	2.3		SO. KINGS CO. AFTERSHOCK AT 0626, MAG. 2.
7/27/1949	12-38- 6.	37.17	121.88	A	3.1	F	IV SIX MILES EAST OF SAN JOSE.
7/28/1949	19-59-50.	37.22	122.18	B	2.3		SOUTH OF PALO ALTO.
7/31/1949	1-27-44.	35.78	118.45	C	3.0		LAKE ISABELLA.
7/31/1949	4-58-58.	37.35	121.62	C	2.0		NEAR MT. HAMILTON.
8/ 1/1949	0- 7-24.	35.90	121.20	D	3.0		SOUTH OF KING CITY.
8/ 1/1949	7-56-14.	37.00	121.80	D	2.4		NW OF WATSONVILLE.
8/ 2/1949	3- 8-36.	37.57	121.33	C	2.4		WEST OF VERNALIS.
8/ 2/1949	7-14-14.	36.70	121.10	D	2.9		NW OF LLANADA.
8/ 7/1949	1-36-43.	36.50	121.50	D	2.3		NO. MONTEREY CO.
8/ 7/1949	3-42-46.	37.50	121.72	B	2.7		SOUTH OF LIVERMORE.
8/ 8/1949	11- 0- 3.	37.95	122.32	B	3.3	F	FELT OVER 300 SQ. MI. IN SAN FRANCISCO BAY AREA. VI AT RICHMOND, PINOLE AND VALLEJO. V AT BERKELEY AND LAFAYETTE.
8/ 9/1949	0-39-27.	38.58	122.67	B	3.6		WEST OF CALISTOGA.
8/10/1949	9-17-39.	36.50	121.00	D	2.6		CENTRAL SAN BENITO CO.
8/14/1949	8-19-58.	38.58	122.67	D	2.5		AFTERSHOCK OF QUAKE ON AUGUST 9 AT 0039.
8/15/1949	23-52-54.	38.50	122.50	D	2.2		MAY BE AFTERSHOCK OF 8/9/49, 0-39-27.
8/16/1949	5-37-13.	36.78	121.37	C	2.7	F	IV SEVEN MILES SOUTH OF HOLLISTER.
8/17/1949	0- 8-22.	38.12	122.45	C	1.9		NE OF SAN RAFAEL.
8/17/1949	0-19-51.	37.07	122.27	C	2.9		NW OF SANTA CRUZ.
8/18/1949	14-25-16.	38.80	118.60	D	3.7		NORTH OF HAWTHORNE, NEVADA.
8/19/1949	0-12-21.	36.80	121.40	D	2.4		NEAR HOLLISTER.
8/19/1949	2-45- 5.	37.17	121.38	C	2.2		NE OF GILROY.
8/21/1949	5-33-23.	37.07	117.22	C	3.8		S OF GOLDFIELD, NEV.
8/21/1949	10-51- 3.	40.28	121.17	B	3.8	F	FORESHOCK OF 20-48-16. FELT REPORT SAME AS FOR 20-48-16 EXCEPT NOT FELT AT MINERAL.
8/21/1949	11-45-20.	40.28	121.17	C	3.9	F	FORESHOCK OF 20-48-16. FELT REPORT SAME AS FOR 20-48-16 EXCEPT NOT FELT AT MINERAL.
8/21/1949	12- 5-53.	40.17	121.23	C	3.2		FORESHOCK OF 20-48-16
8/21/1949	17-27-50.	40.17	121.23	C	3.0		FORESHOCK of 20-48-16
8/21/1949	20-48-16.	40.27	121.23	C	4.5	F	IV AT CARIBOU, LAKE ALMANOR, BUTTE, LAS PLUMAS, MINERAL, CHESTER, AND VALLEY. 12 SHOCKS SMALLER THAN MAG. 2.7 WERE RECORDED AT MINERAL BETWEEN 1050 AND 2048, APPARENTLY FROM SAME SOURCE.
8/21/1949	23-29-10.	40.17	121.23	C	2.7		IV AT CARIBOU, LAKE ALMANOR, BUTTE, LAS PLUMAS, MINERAL, CHESTER, AND VALLEY. 12 SHOCKS SMALLER THAN MAG. 2.7 WERE
8/22/1949	3- 0--0.	36.00	120.00	D		F	KETTLEMAN HILLS. FIFTH SHOCK IN 2 WEEKS.
8/22/1949	5- 3--0.	37.90	122.10	D		F	LAFAYETTE.
8/23/1949	18-47-20.	40.37	124.47	C	4.0		NEAR CAPE MENDOCINO.
8/27/1949	21-10--0.	38.45	123.10	D		F	JENNER AREA.
8/28/1949	3-47-54.	35.78	118.17	B	3.5		SW OF HAIWEE.
8/29/1949	1-56- 1.	37.68	121.53	A	3.4		EAST OF LIVERMORE.

8/29/1949	12- 7-20.	36.00	120.10	D	3.0	F	IV IN AVENAL AND KETTLEMAN CITY.
8/30/1949	3-20-43.	35.83	116.67	C	2.7		DEATH VALLEY.
8/30/1949	20-56-45.	36.58	117.62	C	3.0		E OF LONE PINE.
9/ 3/1949	18-29-54.	36.80	121.78	C	2.4		SW OF WATSONVILLE.
9/ 6/1949	11-20-30.	40.38	124.70	C	4.1	F	OFF CAPE MENDOCINO. FELT IN EUREKA.
9/ 7/1949	17-13-25.	37.13	121.52	C	2.5		NORTH OF GILROY. DEPTH ABOUT 15 KM.
9/ 8/1949	3-28- 8.	36.78	121.47	B	3.2	F	E OF VINEYARD. IV GILROY, SAN JUAN BAUTISTA
9/10/1949	14-40- 9.	38.15	122.57	B	2.9		SOUTH OF PETALUMA.
9/14/1949	5-27-42.	40.40	126.20	D	5.0		OFF CAPE MENDOCINO.
9/14/1949	20- 0-16.	37.18	122.20	B	2.2		SOUTH OF PALO ALTO.
9/16/1949	7-14-50.	37.88	122.02	A	1.8		MT. DIABLO TEST STATION (SLICHTER Z)
							S-P = 1.4 SEC.
9/17/1949	16-21-57.	35.82	118.50	C	3.1	F	IV AT KERN RIVER POWERHOUSE NO. 3 AND
							KERNVILLE. ALSO FELT AT TOBIAS PEAK LOOKOUT STA. (SEQUOIA NAT#L. FOR.).
9/18/1949	13- 3- 6.	36.80	121.70	D	2.2		SE OF WATSONVILLE.
9/18/1949	14-40- 3.	37.37	121.55	A	2.9		NW OF MT. HAMILTON. DEPTH ABOUT 10 KM.
9/24/1949	9-28-20.	38.10	118.60	D	3.2		MINERAL COUNTY, NEVADA.
9/24/1949	9-44-37.	38.10	118.60	D	3.3		MINERAL COUNTY, NEVADA.
9/28/1949	13-52-43.	36.90	121.60	D	1.8		EAST OF WATSONVILLE.
10/ 2/1949	20-36-46.	37.80	122.13	B	1.7	F	OAKLAND AND SAN LEANDRO.
10/ 3/1949	9-34--0.	37.80	122.15	D		F	BERKELEY, OAKLAND, AND SAN LEANDRO.
10/ 4/1949	2-47- 6.	36.98	121.63	C	3.1	F	IV AT MORGAN HILL.
10/11/1949	11-45- 1.	37.78	122.05	B	1.9		SOUTH OF WALNUT CREEK.
10/11/1949	19-59-31.	38.00	122.50	D	1.8		NEAR SAN RAFAEL.
10/16/1949	4-15- 5.	37.82	122.57	C	1.8		NW OF SAN FRANCISCO.
10/16/1949	16- 5-22.	37.67	118.67	C	3.1	F	NO. OWENS VALLEY. IV NEAR LONG VALLEY DAM
10/16/1949	23-32- 7.	36.68	120.70	C	2.6		EAST OF LLANADA.
10/17/1949	2-41-45.	37.00	121.22	A	3.8		NE OF HOLLISTER.
10/17/1949	2-44-52.	37.00	121.22	A	2.9		AFTERSHOCK OF 2-41-45.
10/17/1949	4-38- 6.	37.00	121.22	A	3.6		AFTERSHOCK OF 2-41-45.
10/17/1949	4-45- 4.	37.00	121.22	A	3.0		AFTERSHOCK OF 2-41-45.
10/18/1949	12-25-38.	37.00	121.22	A	3.6		AFTERSHOCK OF 10/17/49, 2-41-45.
10/19/1949	7- 0--0.	38.40	122.45	D		F	IV AT SANTA ROSA.
10/19/1949	15-38- 9.	36.68	121.32	B	2.8		SE OF VINEYARD.
10/20/1949	3-26-35.	37.67	118.67	C	3.5	F	N OWENS VALLEY. FELT NEAR LONG VALLEY DAM.
10/22/1949	3-42-32.	40.50	126.60	D	4.4		OFF CAPE MENDOCINO.
10/22/1949	3-47-35.	36.70	121.12	B	3.2		WEST OF LLANADA.
10/22/1949	21-45-20.	36.58	121.17	C	4.7	F	V HOLLISTER. IV BIG SUR AND MORGAN HILL.
10/23/1949	9-35-22.	37.52	121.70	C	2.3		SOUTH OF LIVERMORE.
10/23/1949	21-50--0.	37.75	122.50	D		F	SAN FRANCISCO. VERY LIGHT.
10/24/1949	1-52-58.	37.75	118.52	C	3.3		N OF BISHOP.
10/24/1949	2-22-33.	37.67	118.30	C	4.1		SOUTHEAST OF BENTON.
10/25/1949	4-18-52.	40.60	125.20	D	3.9		OFF CAPE MENDOCINO.
10/27/1949	2-22-26.	36.77	121.22	C	2.8		EAST OF VINEYARD.
10/28/1949	2-29-16.	40.90	124.20	D	4.5	F	NEAR ARCATA. V IN EUREKA.
10/28/1949	8- 7- 2.	36.30	120.90	C	2.6		NW OF PRIEST.
10/29/1949	0- 6-20.	37.50	121.00	D	3.4		SOUTH OF MODESTO.
10/30/1949	6- 9-55.	35.83	117.58	C	2.0		CHINA LAKE.
11/ 1/1949	11- 5--0.	36.75	121.40	D		F	IV 7 MI. S OF HOLLISTER.
11/ 1/1949	11-56- 0.	39.90	126.10	D	4.7		SW OF CAPE MENDOCINO.
11/ 1/1949	23- 7-34.	39.93	121.72	C	2.0		NORTH OF CHICO.
11/ 2/1949	1-36- 1.	36.70	121.40	D	2.2		SOUTH OF VINEYARD.

11/ 2/1949	13-45- 1.	37.90	123.00	D	2.7		NEAR POINT REYES LIGHTHOUSE.
11/ 3/1949	5- 0--0.	38.40	122.75	D		F	IV AT SANTA ROSA.
11/ 4/1949	9-31-21.	36.75	121.75	B	2.7		NW OF SALINAS.
11/ 4/1949	14-45--0.	38.40	122.75	D		F	SANTA ROSA.
11/ 4/1949	14-50--0.	38.40	122.75	D		F	SANTA ROSA.
11/ 5/1949	17-23-38.	36.58	121.30	C	2.2		SOUTH OF VINEYARD.
11/ 6/1949	7-53--0.	36.90	121.75	D		F	WATSONVILLE.
11/ 6/1949	8-26- 9.	37.92	121.73	B	1.8		EAST OF CONCORD.
11/ 6/1949	8-42-57.	37.92	121.73	B	1.9		EAST OF CONCORD.
11/ 6/1949	9-11-18.	37.92	121.73	B	1.8		EAST OF CONCORD.
11/ 7/1949	8- 0- 8.	36.92	121.63	C	2.6	F	IV NEAR WATSONVILLE (SAN MIGUEL CANYON RD)
11/ 9/1949	12-41-16.	38.50	122.70	D	2.5		NORTH OF SANTA ROSA.
11/ 9/1949	18-48-54.	36.63	121.13	B	3.3		FORESHOCK OF 11/10/49, 5-16-35.
11/10/1949	5-16-35.	36.63	121.13	A	3.9	F	W OF LLANADA. IV 7 MI. S OF HOLLISTER.
11/12/1949	19-28-37.	39.80	119.00	D	3.2		NW OF FALLON, NEVADA.
11/12/1949	20-42-34.	39.80	119.00	D	3.1		NW OF FALLON, NEVADA.
11/13/1949	14-58- 4.	37.93	121.98	B	2.2		EAST OF CONCORD.
11/13/1949	21- 4- 2.	38.20	123.10	D	2.3		NW OF POINT REYES LIGHTHOUSE.
11/14/1949	10-41-59.	39.38	119.70	C	3.5		SE OF RENO, NEVADA.
11/14/1949	17-12-43.	37.48	118.42	C	3.8		N OF BISHOP.
11/14/1949	18-11- 6.	37.43	122.25	B	1.8		NEAR PALO ALTO. DEPTH ABOUT 15 KM.
11/16/1949	8- 1--0.	40.53	121.58	C	2.6	F	FORESHOCK OF 8-4-20. FELT AT MINERAL.
11/16/1949	8- 4-20.	40.53	121.58	C	3.2	F	MINERAL. 110 AFTERSHOCKS RECORDED AT MINERAL BY 1600 SAME DAY.
11/18/1949	19-45-54.	37.92	122.00	C	2.2		SE OF CONCORD.
11/18/1949	23-57-48.	38.30	122.00	D	2.0		NEAR VACAVILLE.
11/22/1949	0-48- 9.	40.20	124.20	D	3.5	F	FELT IN PETROLIA AND FERNDALE.
11/23/1949	13-20- 1.	35.85	117.80	B	2.6	F	NW OF CHINA LAKE. FELT NINE MILE AQDT. STA
11/27/1949	14- 6-46.	37.38	121.60	B	3.0		NEAR MT. HAMILTON.
11/27/1949	21-53-19.	37.38	121.67	C	2.2		NEAR MT. HAMILTON. DEPTH ABOUT 15 KM.
11/29/1949	6-51-38.	37.35	121.70	C	2.0	F	DEPTH ABOUT 10 KM. IV IN SAN JOSE.
11/29/1949	7-14-33.	36.80	121.38	B	2.7	F	IV 7.5 MILES SOUTH OF HOLLISTER.
11/30/1949	8-31-45.	38.00	124.00	C	4.4		DEPT. WATER RES. LIST, QUESTIONABLE.
11/30/1949	8-31-54.	38.62	122.13	B	4.0	F	NW OF WINTERS. IV IN FAIRFIELD. ALSO FELT IN SACRAMENTO.
12/ 4/1949	22-38-54.	40.30	124.30	D	3.8	F	FELT IN FERNDALE AND PETROLIA.
12/ 6/1949	22- 7- 4.	38.30	117.70	D	3.7		WEST OF TONOPAH, NEVADA.
12/ 7/1949	18-44-40.	39.00	119.80	D	3.8	F	NEAR MINDEN, NEVADA. V IN CARSON CITY.
12/ 8/1949	20-44-41.	36.92	117.25	C	3.3		N OF DEATH VALLEY.
12/ 9/1949	4-34-49.	36.07	117.67	B	3.1		N OF CHINA LAKE.
12/ 9/1949	8-41-18.	37.47	118.37	C	4.1	F	NORTH OF BISHOP. FORESHOCK OF 12-39-2. FELT AT BISHOP, LAWS, YOSEMITE NAT'L. PK., AND JUNE LAKE.
12/ 9/1949	12-39- 2.	37.47	118.37	C	4.6	F	NORTH OF BISHOP. V AT BIG PINE, BISHOP, AND LAWS. ALSO FELT AT JUNE LAKE AND YOSEMITE NAT'L. PARK.
12/ 9/1949	23-52-56.	37.00	122.60	D	2.8		OFF COAST, WEST OF SANTA CRUZ.
12/ 9/1949	23-53-24.	37.00	122.60	D	3.0		OFF COAST, WEST OF SANTA CRUZ.
12/10/1949	4- 5-39.	40.50	125.30	D	3.9		OFF CAPE MENDOCINO.
12/13/1949	5- 5-16.	38.67	119.83	C	3.4	F	NW OF COLEVILLE. IV AT MARKLEEVILLE.
12/14/1949	17-32-21.	37.87	116.33	C	3.9		E OF GOLDFIELD, NEV.
12/19/1949	3-30- 8.	35.77	118.00	C	2.5		S OF HAIWEE.
12/21/1949	23- 8-41.	40.40	124.30	D	3.6	F	POSSIBLY DEEPER THAN NORMAL. IV AT BRIDGEVILLE, FERNDALE AND SCOTIA.

12/25/1949	9-41- 6.	36.13	117.95	B	2.1		HAIWEE.
12/25/1949	9-47-12.	37.33	121.63	B	2.1		NEAR MT. HAMILTON.
12/25/1949	22- 2-30.	36.13	117.95	B	1.6		HAIWEE.
12/26/1949	16-37--0.	37.60	122.35	D		F	SAN MATEO.
12/28/1949	9-17-12.	36.20	120.70	D	2.6		NEAR PRIEST.
12/28/1949	11-58-39.	39.40	118.00	D	2.9		EAST OF FALLON, NEVADA.
12/28/1949	16-48-11.	39.20	119.60	D	2.6	F	III AT CARSON CITY, NEVADA.
12/29/1949	2-28-16.	35.83	118.03	B	2.2		S OF HAIWEE.
12/31/1949	6-16- 6.	35.85	117.58	B	2.2		N OF CHINA LAKE.

VI. EARTHQUAKE CATALOGUE (1950-1972) WITH EPICENTER MAPS

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1950

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	23-39-09	3.1	40.5°	121.5°	d	IV at Mineral, California. 70 shocks recorded at Mineral from same source between 2254, Jan. 1 and 1600, Jan. 2; 154 from 1600, Jan. 2 to 1600, Jan. 3; 37 from 1600, Jan. 3 to 1600, Jan. 4; 21 from 1600, Jan. 4 to 1600, Jan. 5; 15 from 1600, Jan. 5 to 1600, Jan. 6; 35 from 1600, Jan. 6 to 1600, Jan. 7.
2	3	21-41-41	2.2	39° 30'	120° 00'	d	Near Reno, Nevada.
3	6	23-49-03	1.8	37° 12'	122° 11'	a	Blast?
4	9	04-43-23	2.5	41° 00'	121° 00'	d	Modoc County, California.
5	9	15-45-32	2.8	37° 14'	121° 36'	a	S of Mt. Hamilton.
6	11	13-51-36	2.9	39.1°	117.4°	d	SW of Austin, Nevada.
7	12	23-50-41	2.6	38° 01'	122° 35'	c	N of San Francisco.
8	13	12-18-31	4.3	40.3°	124.4°	d	V at Ferndale, IV at Scotia and Cape Mendocino Light Station. Aftershock at 1233.
9	14	03-03-55	3.4	36° 40'	121° 11'	c	W of Llanada.
8	14	19-52-30	4.6	40° 13'	124° 25'	c	Felt over a small area along the coast of Humboldt County, California. Maximum intensity VI at Punta Gorda Light Station. Small aftershock at 2030.
10	16	19-21-25	3.8	40° 15'	121° 23'	c	V at Manzanita Lake (Lassen Volcanic National Park).
3	17	22-32-08	1.8	37° 12'	122° 13'	b	Blast?
11	19	10-47-24	1.9	36° 57'	121° 41'	c	E of Watsonville.
12	21	17-11-41	3.5	38° 36'	119° 09'	b	W of Hawthorne, Nevada.
13	21	23-02-45	3.5	39.2°	117.7°	d	SW of Austin, Nevada.
14	27	10-47-20	4.7	42.0°	125.1°	d	NW of Crescent City.
15	29	00-25-07	2.0	37° 44'	120° 17'	c	NE of Merced.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
16	2	00-11-33	2.0	36° 42'	121° 27'	c	S of Hollister.
17	3	08-07-21	2.1	39.0°	120.0°	d	Douglas County, Nevada.
3	6	23-51-04	2.1	37° 12'	122° 10'	b	Blast?
18	7	04-35-01	3.6	40.1°	124.9°	d	SW of Ferndale.
19	9	20-47-03	3.5	40° 48'	122° 03'	c	IV at Shasta Dam. Felt by many at Power Plant.
20	10	23-41-09	4.0	41.2°	124.3°	d	NW of Arcata. IV at Eureka.
21	12	00-21-23	2.2	37° 26'	121° 37'	b	N of Mt. Hamilton.
3	13	20-10-08	1.8	37° 11'	122° 14'	b	S of Palo Alto.
22	15	12-38-22	2.0	37° 33'	122° 52'	c	SE of Farallon Islands.
23	19	07-04-46	2.5	38° 45'	123° 03'	c	NW of Santa Rosa.
24	19	11-17-02	2.1	37.0°	121.5°	d	Northern San Benito County.
25	23	22-16-18	2.0	37° 23'	121° 42'	b	NW of Mt. Hamilton.
25	23	22-24-03	2.6	37° 23'	121° 42'	b	NW of Mt. Hamilton.
25	23	22-30-40	2.2	37° 23'	121° 42'	b	NW of Mt. Hamilton.
21	25	14-10-21	2.7	37° 29'	121° 39'	a	N of Mt. Hamilton.
16	26	06-29-41	2.3	36.7°	121.4°	d	S of Hollister.
26	26	06-45-40	3.0	39° 51'	120° 39'	c	IV at Sierra City, Sierra County.
CIT	28	14-51-03	3.1	37.17°	118.53°	c	SW of Bishop.
	Mar						
27	8	03-23-57	3.3	37° 46'	122° 10'	b	V at Moraga and Oakland. IV at Lafayette, Berkeley and San Francisco.
28	8	05-50-46	2.8	40.0°	119.0°	d	Near Pyramid Lake, Nevada.
29	8	20-16-43	2.9	40.0°	119.5°	d	Near Pyramid Lake, Nevada.
30	9	00-06-12	2.3	37° 42'	122° 31'	a	San Francisco.
31	9	23-43-19	3.2	36° 21'	121° 13'	c	V at Robles Del Rio.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
32	Mar 10	12-26-32	3.4	40.7	124.8°	d	W of Eureka. Felt at Ferndale and Petrolia.
33	11	08-03-12	3.3	38° 40'	119° 52'	b	Markleeville.
34	12	04-22-52	3.3	39° 10'	121° 06'	c	S of Grass Valley.
35	12	17-05-28	3.3	39° 55'	118° 52'	c	N of Fallon, Nevada.
36$	13	17-17-39	3.5	39° 33'	120° 05'	c	Aftershock of Verdi, Nevada shock of Dec. 29, 1948.
37	17	01-15-38	1.6	38° 22'	122° 14'	c	N of Napa.
38	19	08-01-15	2.0	37° 53'	121° 53'	b	E of Concord. Aftershock of magnitude 1.5 at 08-13-05 GCT.
39	19	16-46-00	2.7	40.5°	124.0°	d	Cape Mendocino. Felt in Ferndale.
40	20	15-22-17	5.5	40° 27'	121° 28'	b	Main shock in a swarm of Mt. Lassen quakes. Felt throughout an area of about 4000 square miles in northeastern California. Maximum intensity V at Mineral, Manzanita Lake, Chester, Chico, Gridley, Lake Almanor, Magalia, Mill Creek, and Susanville. The quake was reported as felt slightly at several scattered points separate from the main felt area, including Sacramento, California and Reno and Yerington, Nevada. No damage reported from any locality. See special summary of the swarm following this list.
21	20	17-22-24	2.4	37° 26'	121° 39'	c	N of Mt. Hamilton.
21	20	17-47-32	2.3	37° 26'	121° 39'	c	N of Mt. Hamilton.
CIT	22	01-31-57	3.7	35.97°	120.63°	c	SW of Coalinga.
41	23	13-25-10	4.4	41° 08'	125° 14'	c	NW of Arcata.
24	23	19-11-29	2.1	37° 02'	121° 31'	b	Near Gilroy.
9	25	03-25-32	3.6	36° 38'	121° 11'	b	W of Llanada.
42	27	19-09-28	4.2	40° 16'	123° 59'	c	IV at Garberville.
CIT	29	12-43-20	3.5	35.97°	120.88°	d	SW of Coalinga.
43	Apr 3	22-07-52	2.7	36° 47'	122° 07'	b	S of Santa Cruz.
CIT	4	09-40-52	2.5	37° 17'	117.92°	b	SE of Bishop.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Apr						
44	9	12-01-36	3.5	40° 27'	124° 41'	c	W of Ferndale.
45	10	20-43-54	3.2	37.6°	121.3°	d	NE of Mt. Hamilton.
46	10	22-55-54	3.0	37° 58'	118° 44'	c	E of Mono Lake.
40	13	17-46-41	3.5	40° 25'	121° 23'	b	27 aftershocks recorded on Mineral seismographs in following 14 hours.
21	14	01-31-48	2.8	37° 27'	121° 40'	b	N of Mt. Hamilton.
CIT	15	11-56-32	4.6	35.75°	119.62°	c	S of Fresno near Lost Hills. V at Kernville. IV at Visalia.
47	16	18-47-32	3.4	37° 56'	122° 16'	a	IV at Berkeley.
38	24	09-06-14	1.7	37° 51'	121° 55'	b	SE of Concord.
38	24	09-09-27	1.7	37° 51'	121° 55'	b	SE of Concord.
11	26	03-18-11	2.6	36° 58'	121° 40'	c	W of Gilroy.
CIT	26	07-23-29	3.5	35.20°	120.60°	c	V at Santa Maria.
Felt	26	07-38-00	-	35.20°	120.60°	d	Felt at Santa Maria.
	May						
3	1	20-01-33	1.7	37° 12'	122° 12'	b	Blast?
-	2	04-43-05	3.8	40.6°	127.6°	d	W of Cape Mendocino.
48	5	11-01-49	3.5	39° 06'	119° 41'	c	S of Reno.
49	6	02-14-35	1.8	37° 43'	121° 55'	b	NW of Livermore.
33	8	12-28-18	3.4	38.7°	119.9°	d	Felt slightly at Bijou (Lake Tahoe).
11	11	08-48-21	2.8	37° 00'	121° 41'	b	W of Gilroy.
-	13	08-46-10	4.5	40.5°	127.5°	d	W of Cape Mendocino.
50	16	23-20-35	3.6	40° 14'	124° 06'	c	S of Ferndale.
51	20	09-15-27	1.5	37° 58'	121° 59'	c	NE of Berkeley.
CIT	21	19-26-48	3.4	35.88°	119.73°	c	S of Fresno.
52	24	01-46-57	2.9	36° 26'	120° 46'	c	SE of Llanada.
53	27	23-54-11	2.4	37.9°	120.3°	d	Near Sonora.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
54	29	10-21-10	3.9	41.4°	122.3°	d	N of Shasta.
	June						
55	2	10-35-51	4.2	41.3°	123.4°	d	NE of Arcata.
11	2	17-25-10	3.6	36° 56'	121° 39'	c	E of Watsonville.
Felt	3	02-30-00	-	41.25°	123.25°	d	VI in Salmon River area.
56	3	05-39-16	4.0	40.8°	124.4°	d	"Sharp" at Eureka.
47	3	06-34-03	2.7	38° 01'	122° 18'	a	N of Richmond.
36	6	16-34-06	3.1	39° 33'	120° 05'	c	NW of Verdi, Nevada.
57	6	17-46-55	3.0	40.8°	123.7°	d	E of Arcata.
49	8	01-19-56	2.3	37° 48'	121° 56'	b	Mt. Diablo area.
58	9	13-07-44	4.8	41° 17'	125° 44'	c	NW of Arcata.
11	10	03-28-55	2.2	36° 56'	121° 39'	b	E of Watsonville.
59	13	08-11-37	3.5	38° 42'	120° 05'	b	II near Jackson, Amador County, California. Aftershocks at 0832 and 1339.
49	17	23-37-25	2.8	37° 53'	121° 56'	a	Mt. Diablo. Aftershock at 2346.
60	22	12-44-46	3.6	39.7°	120.4°	d	Foreshock of 1713.
60	22	17-13-18	4.1	39.7°	120.4°	d	NW of Truckee.
61	23	08-45-32	2.2	37° 13'	121° 27'	c	E of Mt. Hamilton.
27$	23	15-38-49	1.9	37° 50'	122° 04'	b	Felt in East Oakland.

MT. LASSEN SHOCKS - MARCH 1950

The shock at 0722 P.S.T. (1522 G.C.T.) on Mar. 20, 1950 was the largest in a swarm of earthquakes. Twenty-nine small foreshocks were recorded on the seismograph at the Lassen Volcanic National Park Headquarters at Mineral between 0552 P.S.T. and the main shock at 0722 on March 20. The Benioff short-period vertical component seismograph at Mineral showed almost continuous activity for several hours after the main shock. Approximately 7,000 identifiable aftershocks were recorded on the short period torsion seismographs at Mineral through April 9, 1950. Many additional smaller shocks were recorded on the Benioff seismometer in the same period.

Table I shows the daily count of aftershocks recorded on the torsion seismographs, as well as the daily count of quakes with a double trace amplitude of over 10 mm.

TABLE I. SHOCKS RECORDED PER 24 HOURS.

8 A.M. to 8 A.M. P.S.T.	Shocks Recorded on: Wood-Andersons	Benioff	No. on Wood-Andersons with Double Amp. > 10 mm.
March, 1950			
20-21	768		69
21-22	500		44
22-23	855		75
23-24	660		41
24-25	605		53
25-26	600		59
26-27	400		9
27-28	174		7
28-29	111		6
29-30	118		3
30-31	142		6
31 - April 1	330		17
April, 1950			
1-2	420		39
2-3	615		42
3-4	276		10
4-5	61	84	2
5-6	75	101	1
6-7	70	91	4
7-8	87	105	9
8-9	22	57	1

TABLE II. SHOCKS FELT AT MINERAL.

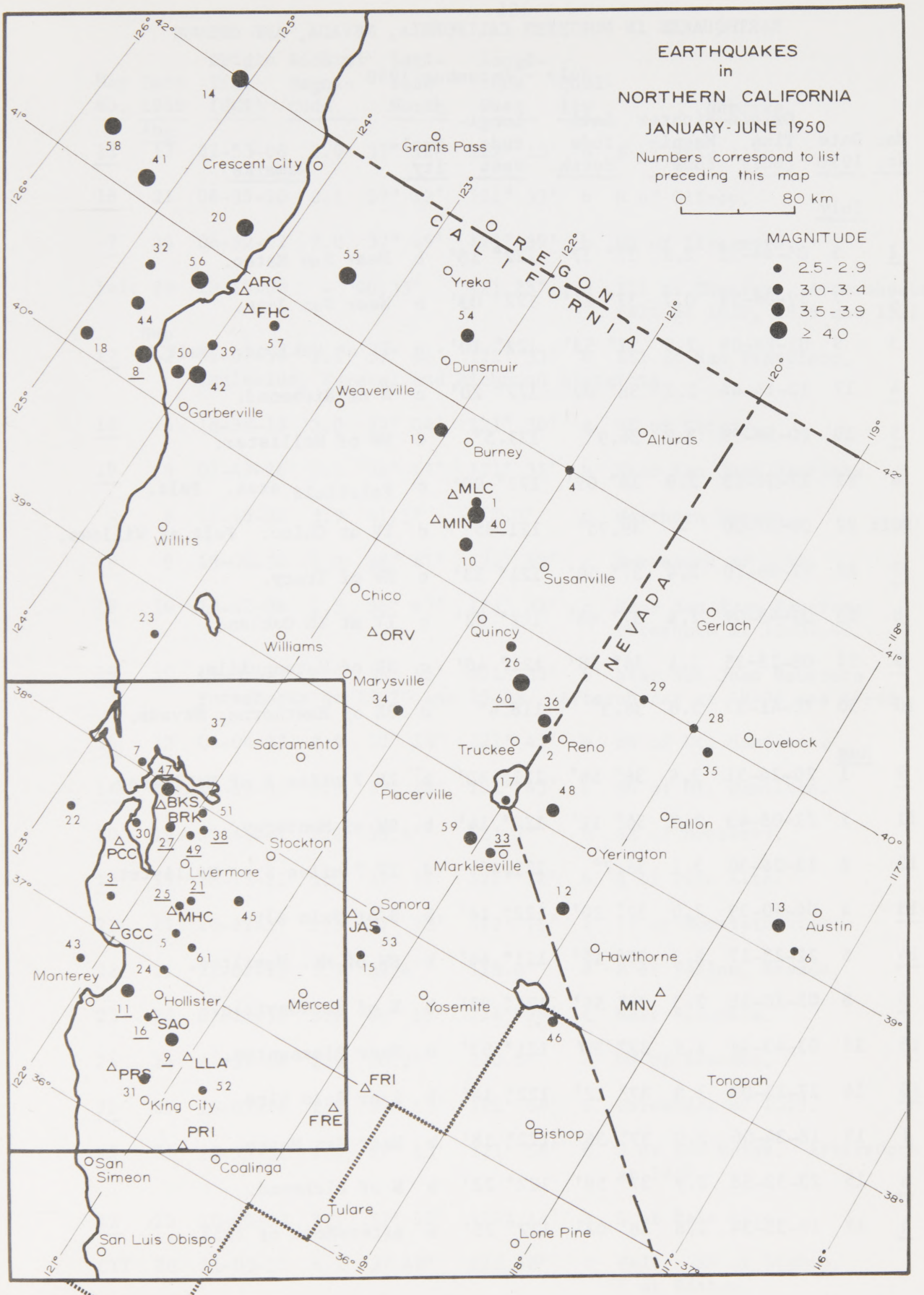
Table II is a summary of the reports of shocks felt at the Park Headquarters at Mineral, about 10 miles from the epicenter. These reports were collected by Paul E. Schulz, Park Naturalist at Lassen Volcanic National Park.

Date March 1950	Time P.S.T.	Remarks
20	0725	Main shock. See local shock list for felt area.
	0855	Felt by few.
	0920	" " "
	1018	" " "
	1138	" " "
	1442	" " several.
	1635	" " few.
21	0401	" " "
	0647	" " "
	0738	" " "
	1227	" " "
	1305	" " "
	2316	" " "
22	1430±	" " "
	2045±	" " "
	2137	" " "
	2203	" " "
23	0200±	" " "
	0300±	" " "
	0910	" " "
	1345	" " "
	1630	" " "
	1633	" " several.
	1641	" " "
	2100	" " "
24	1407	
	1414	
25	"AM"	One felt.
	2025	Felt by many.
	2027	
26	0200±	With a noticeable 5-second preliminary vibration causing sustained rattling.
	1030±	
27	"About 3 A.M."	
April 1	1500±	
	2040	
	2041	
	2050	
	2058	
	2100	
	2116	
	2130	
	2140	
	2308	
2	0230	
	0232	
	0455	Felt by many.
	0630	
	1157	
	1458	Felt by several.
	1545	
	1600±	
	2012	Felt by many.
	2025	" " several.

TABLE III. INSTRUMENTAL MAGNITUDES OF MT. LASSEN EARTHQUAKES.

Table III lists all aftershocks through March 24 with an instrumental magnitude of 2.3 or over.

Time P.S.T.	Magnitude
March 20	
0646	2.5
0722	5.5
0916	2.5
0918	2.6
1000	2.5
1016	2.7
1019	2.5
1103	3.4
1135	2.8
1227	2.3
1229	2.8
1443	3.6
1601	2.5
1633	3.1
1701	2.8
1827	2.5
2035	2.6
2233	2.9
March 21	
0105	2.5
0239	2.7
0401	3.4
0424	2.7
0642	2.5
0648	2.6
0733	2.7
1228	3.0
1304	2.6
1600	2.8
March 22	
1352	2.4
1812	2.7
1819	2.6
1822	2.9
1902	2.8
1935	3.0
2017	3.8
2137	3.5
2147	2.5
2203	2.8
2356	2.7
March 23	
0001	3.4
0033	2.7
0155	2.7
0245	2.6
0304	2.6
0308	2.7
0912	2.8
1004	2.7
1346	2.5
1631	2.8
1642	3.5
1906	2.9
2051	2.5
2146	2.6
2332	2.7
March 24	
0459	2.7
1408	3.0
1414	2.8
1422	3.5
1428	3.1
1432	2.8
1649	3.0
1813	3.4
1833	2.8


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY-JUNE 1950
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5-2.9
3.0-3.4
3.5-3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Willits
Burney
Alturas
Susanville
Chico
Williams
Marysville
Quincy
Gerlach
Truckee
Reno
Lovelock
Placerville
Sacramento
Stockton
Livermore
Markleeville
Fallon
Yerington
Sonora
Hawthorne
Austin
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
SAO
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1950

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	5	05-44-22	2.2	37° 37'	122° 18'	b	Near San Mateo.
2	7	19-06-59	0.7	37° 24'	122° 03'	b	Near San Jose.
3	9	01-29-09	2.9	37° 53'	122° 10'	c	II at Oakland. Felt.
4	17	12-14-44	2.1	38° 00'	122° 20'	c	N of Richmond.
5	20	20-56-39	3.2	36.9°	121.5°	d	NW of Hollister.
6	21	17-37-15	2.9	38° 09'	122° 00'	c	Fairfield area. Felt.
Felt	22	06-37-00	-	39.75°	121.85°	d	IV at Chico. Felt at Willows.
7	22	11-46-10	2.4	37° 50'	121° 33'	c	NW of Tracy.
8	23	09-45-09	2.4	37° 48'	122° 02'	c	IV at SE Oakland.
9	24	08-23-35	2.1	36° 58'	121° 40'	c	NE of Watsonville.
10	30	20-41-33	3.6	38.3°	118.4°	d	SE of Hawthorne, Nevada.
	Aug						
9	1	20-24-51	3.4	36° 56'	121° 40'	b	IV 7 miles S of Hollister.
11	1	21-08-43	2.0	36° 12'	122° 14'	b	SW of Monterey.
12	2	13-26-30	3.1	36.7°	121.4°	d	IV 7 miles S of Hollister.
13	4	04-40-39	2.0	37° 20'	122° 14'	b	S of Palo Alto.
14	5	22-23-17	2.3	37° 15'	121° 44'	b	SW of Mt. Hamilton.
5	8	05-10-18	2.3	36° 55'	121° 37'	b	E of Watsonville.
15	11	03-43-44	1.9	37° 36'	121° 57'	b	Near Pleasanton.
13	14	17-25-03	1.8	37° 12'	122° 14'	b	S of Palo Alto.
1	15	18-34-06	2.9	37° 36'	122° 18'	b	Near San Mateo.
4	15	23-52-58	2.9	37° 59'	122° 22'	b	N of Richmond.
4	17	18-33-34	1.8	38° 02'	122° 25'	b	Aftershock of 2352.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
13	Aug 17	22-53-06	2.0	37° 12'	122° 13'	b	S of Palo Alto.
16	21	06-35-10	2.1	37° 12'	121° 33'	b	N of Gilroy.
7	24	06-52-02	2.8	37° 49'	121° 39'	b	NE of Livermore.
Felt	28	18-15-00	-	40.35°	121.25°	d	III at Chester. Aftershocks felt at 1818, 1819 and 1822.
17	Sep 2	09-02-58	2.1	37° 44'	122° 33'	b	III at San Francisco, Ingleside, Taraval and Richmond districts.
18	4	18-58-19	3.0	37° 04'	121° 30'	c	NE of Gilroy.
19	8	03-49-26	2.4	36° 47'	121° 35'	b	Near San Juan Bautista.
-	8	19-15-32	3.7	41.5°	117.3°	d	Northern Nevada.
19	9	16-06-39	2.3	36° 47'	121° 32'	c	Foreshock of 1342.
19	10	13-42-26	2.5	36° 47'	121° 32'	c	Near San Juan Bautista. Foreshock at 13-37-42.
19	10	19-35-47	2.9	36° 50'	121° 35'	b	Near San Juan Bautista. Foreshocks at 19-26 and 19-28. Aftershocks at 19-36 and 19-49.
14	12	04-04-32	2.9	37° 18'	121° 43'	b	SW of Mt. Hamilton.
14	13	10-56-38	2.6	37° 18'	121° 43'	b	SW of Mt. Hamilton.
20	19	05-45-01	2.6	36.6°	121.7°	d	SE of Monterey.
13	19	18-16-21	1.8	37° 12'	122° 12'	b	S of Palo Alto.
21	21	20-22-57	1.5	37° 23'	122° 15'	c	IV at Mountain View.
22	21	22-02-13	3.7	39.4°	118.0°	d	E of Fallon, Nevada.
23	24	07-27-18	3.8	40° 15'	124° 24'	c	Near Petrolia.
24	24	21-51-44	2.9	36.2°	120.5°	d	NW of Llanada.
25	25	13-05-28	1.8	37° 13'	121° 58'	b	Foreshock of 1313.
25	25	13-13-31	1.9	37° 13'	121° 58'	b	S of Los Gatos. Aftershock at 1837.
13	25	20-00-33	2.1	37° 12'	122° 12'	b	S of Palo Alto.
CIT	28	11-03-22	4.1	37.48°	118.58°	c	Felt. NW of Bishop. V at Bishop.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
9	Sep 29	04-42-51	2.5	36° 58'	121° 43'	c	N of Watsonville.
5	30	21-26-33	4.1	36° 54'	121° 23'	b	N of Hollister.
5	Oct 2	18-10-33	2.7	36° 55'	121° 25'	b	N of Hollister.
26	3	11-38-00	2.7	39° 24'	123° 51'	c	II at Fort Bragg.
27	6	15-39-44	4.1	40° 23'	124° 45'	c	SW of Arcata.
Felt	7	05-47-00	-	40.70°	122.40°	d	IV at Project City.
28	7	19-11-47	3.3	39° 32'	123° 04'	c	NE of Willits.
27	8	12-24-19	4.6	40° 17'	124° 48'	b	SW of Arcata.
29	9	12-18-41	2.2	37° 54'	121° 54'	b	Mt. Diablo area.
30	9	20-26-22	3.3	36° 47'	121° 15'	c	SE of Hollister.
31	17	03-54-12	4.5	39° 36'	116° 41'	c	E of Austin, Nevada.
32	20	08-23-25	2.7	36° 02'	121° 04'	c	S of King City.
17	23	07-12-04	1.3	37° 42'	122° 28'	b	San Francisco.
33	23	08-12-46	4.5	39.5°	117.5°	d	NW of Austin, Nevada.
34	26	03-18-08	4.2	39° 37'	119° 42'	c	V at Reno, Nevada. Also felt at Verdi.
35	29	08-56-39	2.6	36° 54'	121° 23'	c	NE of Hollister.
13	30	23-51-05	1.8	37° 13'	122° 12'	b	Blast? S of Palo Alto.
5	31	22-36-19	3.0	36° 57'	121° 28'	b	SE of Gilroy.
30	Nov 2	04-19-28	3.0	36° 42'	121° 11'	b	SE of Hollister.
36	2	05-07-22	3.9	39° 37'	119° 55'	b	IV at Reno, Nevada.
34	7	01-34-21	2.6	39.7°	119.7°	d	NE of Reno.
30	7	19-21-59	2.5	36° 42'	121° 11'	c	SE of Hollister.
35	8	01-31-30	2.5	36° 52'	121° 26'	a	NE of Hollister.
34	10	17-28-15	4.0	39° 38'	119° 41'	c	Felt at Reno, Nevada.

Map No.	Date 1950	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
19	Nov 11	13-11-33	2.5	36° 50'	121° 32'	b	Near San Juan Bautista.
37	12	08-26-26	3.7	40.7°	124.9°	d	V at Ferndale.
13	12	16-02-52	1.6	37° 10'	122° 15'	c	S of Palo Alto.
38	14	02-04-40	4.1	40° 29'	121° 30'	a	Foreshock. Felt at Mineral.
38	14	02-35-50	4.6	40° 29'	121° 30'	a	Main shock in a swarm of Mt. Lassen earthquakes. Maximum intensity V at Mineral, Chester, Lake Alamanor, and Butte Valley. IV at Canyon Dam and Las Plumas. See special summary of the swarm following this list.
38	14	06-34-32	4.5	40° 29'	121° 30'	b	Mt. Lassen aftershock.
38	14	21-55-53	4.0	40° 29'	121° 30'	b	Mt. Lassen aftershock. Felt at Caribou Powerhouse (Belden).
38	15	03-22-42	4.1	40° 29'	121° 30'	b	Mt. Lassen aftershock.
35	15	09-17-10	2.5	37° 00'	121° 23'	b	E of Gilroy.
9	16	02-14-56	2.8	36.9°	121.6°	d	E of Watsonville.
19	16	06-38-11	2.8	36° 40'	121° 36'	c	Near Salinas.
39	19	07-55-22	3.4	37° 18'	122° 08'	a	Felt at Saratoga, Cupertino and Monte Vista.
4	19	09-10-12	2.0	37° 54'	122° 14'	a	N of Berkeley.
-	19	23-43-31	4.2	39° 43'	125° 31'	c	SW of Arcata.
29	20	03-11-54	2.2	37° 57'	121° 59'	b	E of Concord.
Felt	20	07-55-00	-	37.40°	122.00°	d	Felt Saratoga, Cupertino, Monte Vista area.
40	20	09-51-43	3.0	40.1°	121.3°	d	SE of Mineral.
9	22	09-53-18	3.0	36° 55'	121° 43'	b	Near Watsonville.
5	23	13-58-24	4.1	36° 49'	121° 31'	c	IV at Hollister and Watsonville.
5	24	06-09-01	2.9	36° 52'	121° 33'	b	SE of Gilroy.
-	30	23-15-45	3.2	40.1°	116.5°	d	E of Lovelock, Nevada.
18	Dec 1	04-35-47	2.7	37° 03'	121° 34'	a	N of Gilroy.

Map No.	Date 1950 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
41	1	07-42-09	2.5	38° 31'	122° 11'	a	W of Winters.
-	5	01-11-15	4.2	40.0°	116.7°	d	E of Lovelock, Nevada.
5	6	06-40-10	2.8	36° 53'	121° 35'	c	S of Gilroy.
42	6	11-38-39	3.0	38° 46'	119° 22'	c	Near Wellington, Nevada.
CIT	7	03-51-09	2.7	36.38°	118.23°	c	W of Lone Pine. IV at Cottonwood Gates.
CIT	7	03-53-15	2.3	36.40°	118.13°	c	W of Lone Pine.
34	7	12-54-14	3.3	39° 40'	119° 44'	c	NE of Reno, Nevada.
43	11	22-29-01	4.1	40° 05'	120° 04'	c	Herlong foreshock. IV at Doyle.
5	13	00-24-33	2.6	36° 58'	121° 32'	c	Near Gilroy.
43	14	08-59-34	4.5	40° 05'	120° 04'	c	Herlong foreshock. Felt at Wendel.
43	14	09-19-59	4.0	40° 05'	120° 04'	c	Herlong foreshock.
43	14	09-29-51	4.0	40° 05'	120° 04'	c	Herlong foreshock. Felt at Vinton.
43	14	11-02-30	4.0	40° 05'	120° 04'	c	Herlong foreshock.
43	14	13-10-38	4.0	40° 05'	120° 04'	c	Herlong foreshock.
43	14	13-24-19	5.6	40° 05'	120° 04'	b	Main shock in a series of earthquakes centered near Herlong. Felt over about 20,000 square miles of northeastern California and western Nevada. Maximum intensity VII at Herlong, VI at Beckwourth, Doyle, Litchfield, Portola, and Wendel, California, and at Flanigan, Nevada. See special summary of the series following this list.
43	14	16-41-11	4.1	40° 05'	120° 04'	c	Herlong aftershock.
18	15	07-50-41	2.5	37° 06'	121° 28'	c	NE of Gilroy.
43	15	18-01-15	4.4	40° 05'	120° 04'	c	Herlong aftershock. Felt at Herlong and Wendel.
44	16	03-33-53	2.7	37° 27'	121° 40'	c	N of Mt. Hamilton.
43	17	01-18-44	4.0	40° 05'	120° 04'	c	Herlong aftershock.

Map No.	Date 1950 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
CIT	25	00-16-09	3.5	37.33°	118.07°	c	E of Bishop.
16	25	15-19-22	3.2	37° 09'	121° 38'	b	N of Gilroy.
CIT	26	12-26-14	3.0	37.27°	118.55°	c	Near Bishop.
CIT	26	14-20-57	2.3	37.27°	118.55°	c	Near Bishop.
45	28	00-15-01	2.9	38° 35'	122° 50'	c	Felt at Windsor.
CIT	30	16-08-52	3.2	36.43°	118.22°	c	W of Lone Pine.

MT. LASSEN SHOCKS - NOVEMBER 1950

The shock at 0235 G.C.T. on November 14, 1950 was the largest in a swarm of earthquakes. One hundred sixty-five foreshocks were recorded on the Wood-Anderson seismographs between 1630 G.C.T. on November 13 and the main shock, including the shock felt at Mineral at 0204 G.C.T. The Benioff short-period vertical component seismograph at Mineral showed almost continuous activity commencing at about 0140 G.C.T. and lasting for several hours after the main shock. Approximately 1700 identifiable aftershocks were recorded on the short-period torsion (Wood-Anderson) seismographs through November 22, 1950. Many additional smaller shocks were recorded on the Benioff seismometer in the same period.

Table I. Shocks Recorded Per 24 Hours.

Table I gives the daily count of aftershocks recorded on the torsion seismographs at Mineral, as well as the daily count of quakes with a double trace amplitude of over 10 mm.

16 h. to 16 h., G.C.T. Nov., 1950	Shocks recorded on Wood-Andersons	No. on Wood-Andersons with double amp. > 10 mm.
After 0235, Nov. 14	735	100
14 - 15	590	31
15 - 16	175	8
16 - 17	70	7
17 - 18	53	2
18 - 19	32	2
19 - 20	28	2
21 - 22	32	5

TABLE II. INSTRUMENTAL MAGNITUDES OF MT. LASSEN EARTHQUAKES

Time G.C.T.	Magnitude	Time G.C.T.	Magnitude	Time G.C.T.	Magnitude
Nov. 14					
0140	3.4	0415	3.2	0954	2.6
0149	2.6	0444	2.6	1519	2.4
0204	4.1	0535	3.6	1600	3.8
0235	4.6	0634	4.5	2156	4.0
0246	3.8	0736	2.6	Nov. 15	
0250	2.8	0826	3.5	0322	4.1
0301	2.6	0831	2.9	0935	2.9
0307	2.4	0906	2.9	Nov. 16	
0319	3.0	0939	2.8	0854	3.3
0356	2.8	0945	2.6		

HERLONG SHOCKS - NOVEMBER-DECEMBER, 1950

The shock at 13-24-19 G.C.T. on December 14, 1950 was the largest in a swarm of earthquakes centered in the Herlong-Doyle area on the eastern border of Northern California. More than 50 foreshocks of magnitude greater than 2 occurred between 0632 G.C.T. on November 22 and the main shock. More than 200 aftershocks of magnitude greater than 2 had occurred by the end of December.

Following is a list of the instrumental magnitudes of the Herlong shocks:

Time G.C.T.	Magnitude	Time G.C.T.	Magnitude	Time G.C.T.	Magnitude
Nov. 22		Dec. 11		Dec. 14	
0632.7	2.9	0453.5	2.3	0332.4	2.5
0635.4	3.9	2229.0	4.1	0459.6	2.7
0640.8	2.2	Dec. 12		0732.1	2.5
0641.6	2.3	0112.6	2.3	0859.5	4.5
0647.6	3.3	0557.8	3.9	0904.0	2.7
0859.2	2.7	0557.8	3.8	0920.0	4.0
Nov. 23		0829.0	2.3	0923.2	2.3
0921.1	3.0	0852.1	2.7	0927.4	2.4
Nov. 25		1101.9	2.3	0929.8	4.0
0757.7	2.4	1109.8	2.4	0932.3	3.4
Nov. 26		1306.3	2.9	0934.0	2.8
1708.7	3.1	1432.9	2.8	0934	2.9
Nov. 30		1517.2	2.3	0934	2.9
0311.5	2.3	1837.8	2.5	0935.6	2.7
Dec. 2		Dec. 13		0944.0	2.3
1231.8	2.4	0329.5	2.4	0946.8	2.5
Dec. 10				0947.6	2.4
0922.4	2.9				

Time G.C.T.	Magnitude
Dec. 14 (Cont.)	
0953.8	2.6
1008.3	2.3
1023.0	2.3
1059.8	2.4
1102.5	4.0
1106.8	2.3
1233.3	2.5
1243.4	2.9
1310.6	4.0
1324.3	5.6
(Main shock)	
1327.8	3.2
1332.4	3.5
1335.0	3.2
1341.3	3.6
1342.4	3.5
1344.5	3.3
1352.5	3.2
1352.5	2.6
1400.6	3.1
1449.2	2.6
1521.0	3.0
1527.6	2.3
1528.7	2.1
1629.2	3.6

Time G.C.T.	Magnitude
Dec. 14 (Cont.)	
1641.2	4.1
1643.2	3.1
1645.3	2.8
1647.0	2.6
1648.2	2.6
1653.0	2.5
1653.0	2.9
1655.1	2.6
1659.2	2.5
1659	2.4
1659	2.3
1711.1	3.4
1727.1	2.7
1729.5	2.5
1737.5	2.5
1819.2	2.6
1830.5	2.4
1838.2	2.5
1850.2	2.7
1850	2.9
1926.4	2.4
1959.3	2.2
2036.3	2.7
2051.0	2.9
2059.6	2.4

Time G.C.T.	Magnitude
Dec. 14 (Cont.)	
2105.8	3.0
2136.8	3.3
2159.9	2.7
2210.4	3.2
2219.9	2.9
2223.3	2.9
2228.0	2.4
2239.4	2.5
2240.7	2.6
2250.6	3.5
2304.0	2.7
Dec. 15	
0008.1	2.5
0042.3	2.6
0105.4	2.5
0107.0	3.9
0112.1	3.4
0131.0	2.3
0146.2	2.3
0152.8	2.5
0241.8	2.6
0359.1	3.0
0414.8	2.2
0435.7	3.2
0444.3	2.3

Time G.C.T.	Magnitude
Dec. 15 (Cont.)	
0451.8	3.5
0452.8	2.9
0517.3	2.5
0519.3	2.5
0523.4	2.6
0556.1	3.2
0612.5	3.1
0629.7	2.3
0643.3	2.4
0657.3	2.3
0824.6	2.3
0825.5	2.3
0925.6	2.9
0928.6	3.2
0934.4	3.9
0937.4	2.6
0938.2	3.4
0939.2	3.7
0946.3	2.7
0948.1	3.0
0951.0	2.4
0952.3	2.7
1047.2	2.3
1245.2	2.1
1300.6	2.1
1326.0	3.8
1400.7	2.7

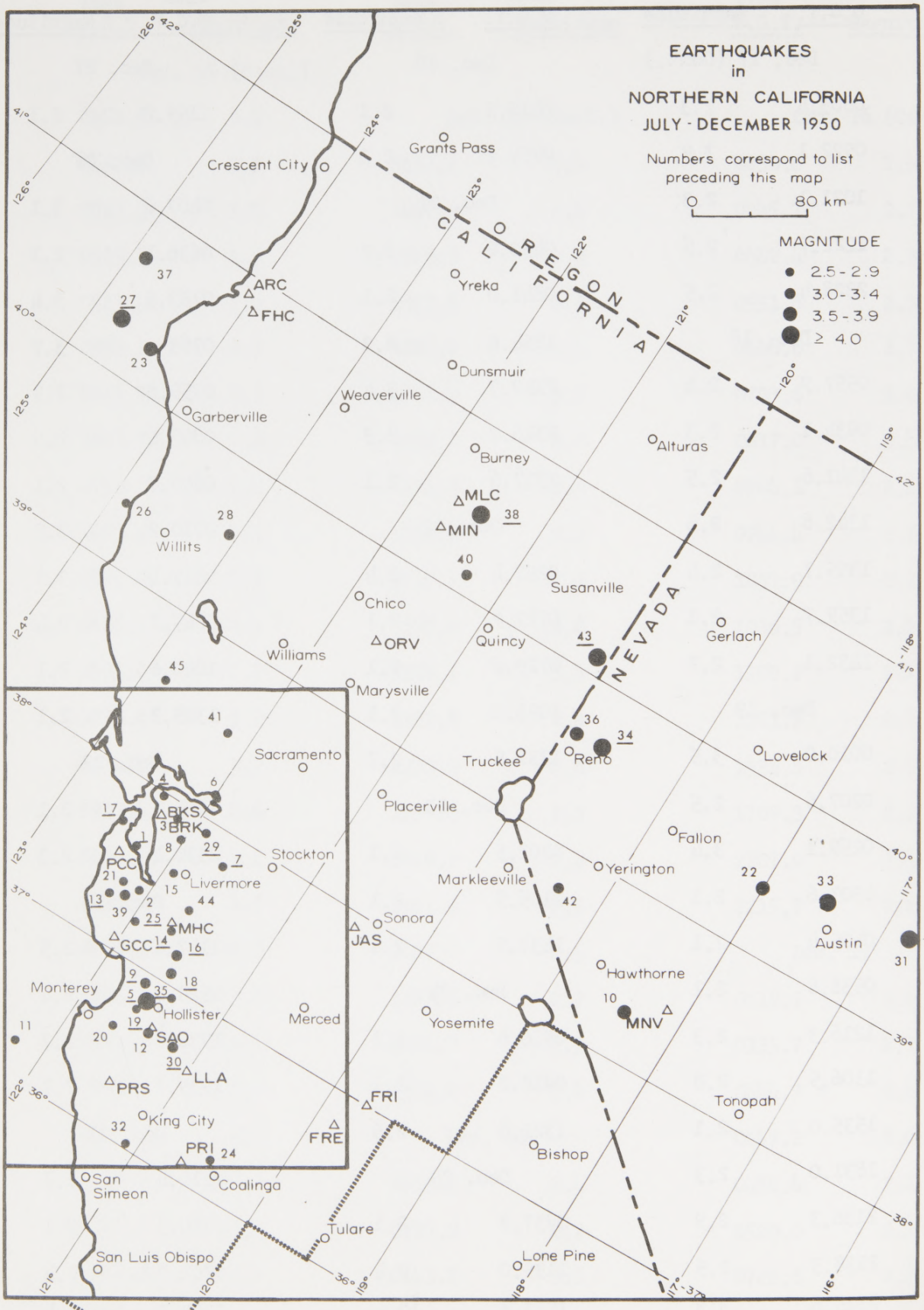
Time G.C.T.	Magnitude
Dec. 15 (Cont.)	
1411.2	2.4
1440.9	2.6
1526.3	3.2
1627.6	3.8
1801.2	4.4
1803.9	3.5
1803.9	2.7
1819.3	2.6
1830.8	2.3
1845.4	2.3
1855.0	2.8
1922.1	3.3
1929.8	2.4
1933.0	2.6
1939.6	2.3
2018.2	2.6
2121.9	2.5
2127.7	2.3
2155.6	2.7
2214.9	2.3
2304.8	2.4
Dec. 16	
0033.8	2.4
0129.0	2.7
0143.0	2.5
0229.2	2.3

Time G.C.T.	Magnitude
Dec. 16 (Cont.)	
0230.6	2.4
0245.7	2.7
0442.4	2.3
0551.6	2.3
0648.6	2.7
0703.6	2.4
0817.0	2.4
0904.1	2.4
0944.4	2.3
1031.0	2.3
1036.5	2.4
1102.2	2.7
1321.9	2.5
1334.8	2.7
1709.3	2.5
2207.9	2.4
2215.7	2.2
Dec. 17	
0118.7	4.0
0333.7	2.1
0444.9	2.4
0449.2	2.6
0452.4	2.1
0520.0	2.1
0724.6	2.7
0733.2	2.4

Time G.C.T.	Magnitude
Dec. 17 (Cont.)	
0803.4	2.3
0922.1	3.9
1021.1	2.3
1222.7	2.5
2328.4	2.5
Dec. 18	
0557.9	2.4
0934.1	2.3
1341.6	2.5
1342.8	2.6
1355.7	2.4
1359.7	2.1
1432.1	2.7
Dec. 19	
0010.0	3.5
0207.6	2.5
0259.1	3.4
0303.6	2.1
0405.4	2.1
0536.8	2.1
1236.3	2.3
1306.5	2.8
1535.0	2.1
1831.0	2.3
2136.3	2.9
2138.3	2.5
2315.6	3.3

Time G.C.T.	Magnitude
Dec. 20	
0419.2	2.1
0955.2	2.1
Dec. 21	
0452.0	2.2
0841.0	2.1
1254.4	2.2
2119.7	3.4
2316.2	3.3
2317.6	2.1
Dec. 22	
0257.4	3.4
0727.9	2.1
0729.6	2.1
1023.2	2.1
1337.5	2.7
Dec. 23	
0902.5	2.1
1105.5	2.1
1437.5	2.1
Dec. 24	
0916.8	2.2
0918.2	2.1
1321.8	2.6
Dec. 25	
0837.3	2.1
1135.0	2.4
1532.8	2.4

Time G.C.T.	Magnitude
Dec. 27	
1159.2	2.1
Dec. 28	
0407.6	3.1
0636.1	2.1
0753.5	3.4
0753	3.7
0759.8	2.9
0807.4	2.5
0808.7	2.1
0810.2	3.5
0817.4	3.2
0845.2	2.4
1040.6	2.1
1305.3	2.1
Dec. 29	
1404.1	2.1
2330.4	2.3
Dec. 30	
1147.4	2.5
1528.1	2.4
1930.2	2.7
1935.7	2.7
Dec. 31	
0414.4	2.7
0430.3	2.1
0701.5	2.4
0702.7	3.4


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1950
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Stockton
Fallon
Markleeville
Yerington
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
MNV
SAO
PRS
LLA
FRI
FRE
PRI

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1951

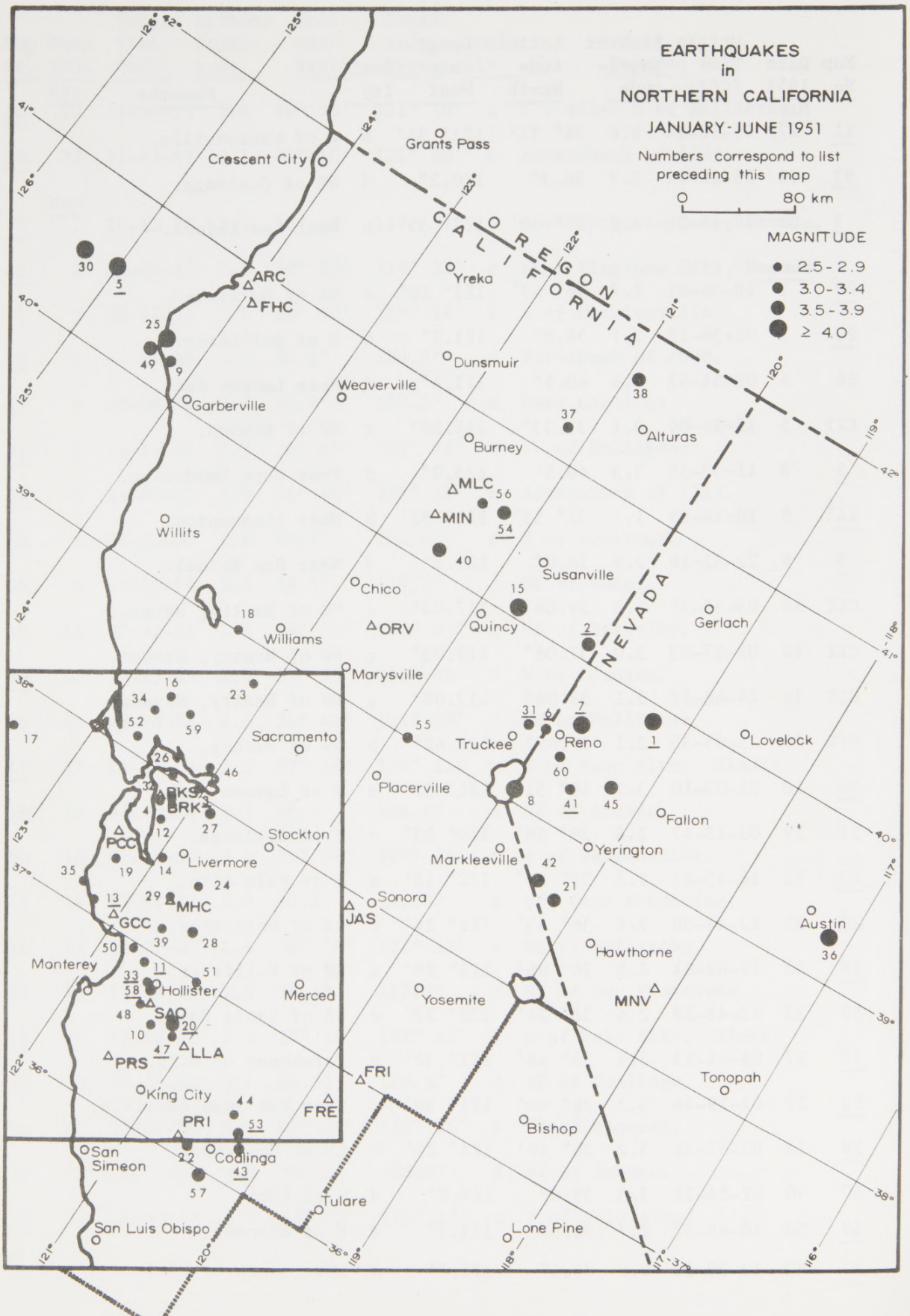
Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
Felt	2	10-25-00	-	37.30°	118.35°	d	IV at Laws.
CIT	2	12-06-57	3.1	37.33°	118.35°	c	IV at Laws.
1	2	23-31-21	4.4	39.9°	119.3°	d	NE of Reno.
1	2	23-49-00	3.4	39.9°	119.3°	d	NE of Reno.
CIT	4	14-03-58	3.8	37.30°	118.00°	d	Southern Tulare County, California.
CIT	4	14-06-06	2.9	37.30°	118.00°	d	Southern Tulare County, California.
2	4	20-43-45	3.0	40° 05'	120° 04'	c	Herlong aftershock.
2	4	21-45-42	3.1	40.00°	120.00°	d	Southern Washoe County, Nevada.
3	6	00-31-00	1.7	38° 00'	122° 33'	c	Near San Rafael.
4	6	19-06-56	2.6	37° 53'	122° 10'	c	SW of Concord.
2	7	08-56-57	3.4	40° 08'	120° 07'	c	Herlong aftershock.
2	7	17-30-35	3.8	40° 05'	120° 04'	c	Herlong aftershock.
2	8	13-20-07	3.2	40° 05'	120° 04'	c	Herlong aftershock.
CIT	10	01-04-12	3.0	37.70°	118.83°	c	IV at Bishop.
5	13	20-31-32	4.8	40.4°	125.0°	d	IV at Arcata, Eureka, and Ferndale. III at Trinidad.
6	13	21-49-49	3.0	39.50°	120.00°	d	W of Reno, Nevada.
7	21	06-28-27	4.1	39° 37'	119° 48'	b	Felt at Reno, Nevada.
8	22	15-14-53	4.8	39° 05'	119° 57'	b	V at Marlette Lake, Nevada, and at Phillips and Tahoe City. IV at Camino, Grizzly Flats, Las Plumas, Soda Springs, and Truckee. III at Norden, Vallecito and Woodfords. Also reported felt at Carson City and Reno, Nevada.
9	22	16-29-16	3.3	40.2°	124.2°	d	S of Ferndale.
6	22	21-04-26	2.8	39.50°	120.00°	d	Near Reno, Nevada.

Map No.	Date 1951 Jan	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
10	23	12-19-23	2.6	36.6°	121.3°	d	SE of Hollister.
11	23	19-06-42	2.6	36° 58'	121° 34'	c	Near Gilroy.
12	25	21-00-18	2.9	37° 45'	122° 11'	b	Sharp shock felt over a small area of the San Francisco East Bay region. VI at San Leandro and Oakland. IV at Pleasanton. III at Hayward and Moraga.
CIT	26	06-28-01	3.5	37.67°	118.75°	c	NW of Bishop.
3	28	00-35-25	1.5	38° 04'	122° 32'	c	Near San Rafael.
13	Feb 2	20-02-31	2.6	37° 09'	122° 11'	b	S of Palo Alto.
Felt	2	22-44-00	-	41.00°	121.90°	d	Felt. III at Big Bend.
3	3	01-29-57	2.0	38° 03'	122° 30'	c	Near San Rafael.
14	3	21-29-50	2.4	37° 31'	121° 57'	a	SE of Hayward.
-	6	16-33-12	4.8	40° 14'	126° 49'	b	W of Arcata.
-	6	17-06-35	4.4	40° 14'	126° 49'	c	W of Arcata.
11	6	17-15-49	2.5	36° 55'	121° 36'	c	S of Gilroy.
3	9	00-36-29	1.8	38° 03'	122° 32'	c	Near San Rafael.
CIT	10	17-03-51	2.5	37.28°	118.30°	c	SW of Bishop.
15	19	22-36-07	4.2	40° 04'	120° 42'	b	VI at Spring Garden. IV at Butte Valley, Caribou and Quincy.
16	20	06-52-47	2.2	38° 25'	122° 39'	c	Near Santa Rosa.
17	20	14-38-57	2.3	37° 44'	123° 32'	c	SW of Point Reyes.
18	21	12-52-17	2.9	39.0°	122.5°	d	E of Clear Lake.
19	22	09-08-06	2.5	37° 22'	122° 16'	a	W of Palo Alto.
20	22	09-50-36	2.5	36° 44'	121° 14'	c	SE of Hollister.
21	Mar 1	01-11-03	3.4	38.6°	119.2°	d	W of Hawthorne, Nevada.
22	2	02-13-44	3.1	36.1°	120.6°	d	W of Coalinga.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
23	3	23-05-29	2.2	38° 47'	122° 10'	b	NE of Santa Rosa.
24	7	22-35-53	2.5	37.5°	121.6°	d	SE of Livermore.
25	10	08-10-17	4.1	40.3°	124.3°	d	Sharp earthquake felt over a small area of Humboldt County, California. Maximum intensity of VI at Bridgeville and Ferndale. V at Carlotta, Fields Landing, Loleta, and Scotia. IV at Arcata, Fortuna, Garberville, Miranda, Petrolia, and Weott.
26	11	19-28-29	2.3	38° 01'	122° 17'	c	N of Berkeley.
20	12	11-20-32	3.1	36° 41'	121° 11'	c	SE of Hollister.
CIT	13	01-12-40	2.8	37.13°	118.63°	c	SW of Bishop.
27	13	20-05-27	3.0	37° 56'	121° 52'	b	Near Mt. Diablo.
28	13	22-17-02	3.0	37° 14'	121° 26'	c	SE of Mt. Hamilton.
CIT	15	13-50-43	3.8	35° 01'	120° 29'	c	SE of San Luis Obispo
29	24	00-02-17	2.2	37° 20'	121° 44'	b	SW of Mt. Hamilton.
	Apr						
30	1	19-21-08	5.0	40° 28'	125° 18'	c	Off Cape Mendocino. III at Ferndale.
7	4	02-46-35	3.0	39.7°	119.8°	d	Near Reno.
31	5	11-19-38	2.7	39° 26'	120° 06'	c	Near Truckee.
32	6	15-36-40	1.5	37° 51'	122° 14'	b	Near Berkeley.
33	7	09-02-58	2.5	36° 50'	121° 33'	c	Near San Juan Bautista.
34	7	19-19-21	2.6	38.3°	122.7°	d	S of Santa Rosa.
35	9	23-52-50	2.5	37° 09'	122° 22'	c	SW of Palo Alto.
36	11	15-06-25	4.0	39.3°	117.2°	d	SW of Austin, Nevada.
31	14	21-59-03	3.2	39.5°	120.1°	d	W of Verdi, Nevada.
37	15	01-19-32	3.0	41.2°	121.2°	d	NE of Burney.
38	16	16-42-23	3.7	41.7°	120.9°	d	NW of Alturas.
39	24	05-37-28	2.0	37° 09'	121° 40'	b	Near Morgan Hill.
40	26	15-21-26	3.6	40.1°	121.5°	d	S of Mineral.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
20	Apr 27	11-34-53	3.8	36° 40'	121° 10'	a	V 7 miles S of Hollister.
20	27	11-43-07	3.1	36° 40'	121° 10'	b	Aftershock of 1134.
41	May 1	10-13-27	3.1	39° 13'	119° 37'	c	S of Virginia City, Nevada.
41	2	01-00-18	3.4	39° 17'	119° 33'	c	Near Virginia City, Nevada.
42	3	20-27-58	3.6	38° 40'	119° 24'	b	E of Markleeville.
43	4	03-28-36	3.1	36.2°	120.2°	d	Foreshock of 2008.
43	4	20-08-10	3.2	36.2°	120.2°	d	Near Coalinga.
33	5	13-13-07	2.9	36° 49'	121° 28'	b	SW of Hollister.
33	5	14-07-42	2.5	36° 48'	121° 28'	c	Aftershock of 1313.
44	6	03-18-03	2.8	36.4°	120.4°	d	N of Coalinga.
45	8	13-35-54	3.3	39.4°	119.3°	d	SE of Reno.
46	11	05-31-54	1.9	38° 07'	122° 03'	c	NE of Berkeley.
47	12	20-15-45	2.4	36° 41'	121° 05'	c	W of Llanada.
48	12	23-28-11	2.6	36° 42'	121° 28'	c	SW of Hollister.
13	15	22-50-26	2.1	37° 13'	122° 11'	b	S of Palo Alto. Blast?
49	17	07-29-00	3.5	40.2°	124.6°	d	SW of Arcata.
50	18	01-15-00	2.3	36° 58'	121° 46'	c	N of Watsonville.
5	19	03-02-53	4.0	40.5°	125.0°	d	Off Cape Mendocino.
51	21	02-47-43	2.4	36° 58'	121° 13'	c	NE of Hollister.
52	23	11-02-17	2.6	38.1°	122.7°	d	NW of San Francisco.
13	24	17-58-38	2.3	37° 12'	122° 13'	b	S of Palo Alto. Blast?
53	25	05-11-18	3.1	36.3°	120.3°	d	NE of Coalinga.
54	25	12-00-05	3.2	40° 31'	121° 16'	c	NE of Mineral.
55	25	17-52-06	3.0	39.0°	120.9°	d	NE of Auburn.
13	25	19-02-47	2.4	37° 10'	122° 17'	a	S of Palo Alto.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
11	27	05-56-14	2.6	36° 52'	121° 36'	b	E of Watsonville.
53	31	06-28-42	2.7	36.3°	120.2°	d	NE of Coalinga.
3	31	18-59-09	1.7	38° 00'	122° 35'	b	Near San Rafael.
	June						
20	1	20-36-01	2.7	36° 47'	121° 20'	c	SE of Hollister.
20	3	01-36-12	2.7	36.8°	121.2°	d	E of Hollister.
56	5	08-54-43	3.4	40.5°	121.4°	d	Near Lassen Peak.
CIT	5	12-29-06	3.1	37.33°	118.50°	c	SW of Bishop.
5	8	11-33-55	3.3	40.5°	125.0°	d	Near Cape Mendocino.
14$	9	10-14-05	1.7	37° 35'	122° 52'	b	Near Pleasanton.
3	9	22-31-16	2.5	38.0°	122.5°	d	Near San Rafael.
CIT	16	05-52-56	4.5	37.08°	117.08°	c	NW of Beatty, Nevada.
CIT	16	07-27-03	3.0	37.08°	117.08°	c	NW of Beatty, Nevada.
CIT	16	14-48-19	3.1	37.08°	117.08°	c	NW of Beatty, Nevada.
CIT	16	23-05-35	3.1	37.47°	118.42°	b	NW of Bishop.
54	18	21-03-10	3.7	40° 31'	121° 12'	c	E of Lassen Peak.
57	19	06-13-47	3.6	35° 58'	120° 25'	c	S of Coalinga.
13	21	14-45-24	2.2	37° 15'	122° 15'	a	S of Palo Alto.
20	21	22-44-56	2.8	36° 43'	121° 14'	c	SE of Hollister.
58	23	19-42-01	2.5	36° 46'	121° 26'	c	SW of Hollister.
59	23	22-48-29	2.4	38° 24'	122° 27'	c	SE of Santa Rosa.
58	27	01-24-23	2.6	36° 48'	121° 32'	c	Foreshock of 0129.
58	27	01-29-48	3.3	36° 46'	121° 30'	c	Near San Juan Bautista.
58	28	05-52-51	3.2	36° 49'	121° 25'	b	IV at Hollister.
60	30	02-54-32	3.3	39.4°	119.8°	d	S of Reno.
47	30	10-46-57	2.7	36.6°	121.1°	d	W of Llanada.
47	30	12-38-33	2.5	36.6°	121.1°	d	Aftershock of 1046.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY-JUNE 1951
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5-2.9
3.0-3.4
3.5-3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Fallon
Stockton
Yerington
Markleeville
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
PCC
BRK
BKS
MHC
GCC
JAS
SAO
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1951

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	1	00-13-19	3.2	36° 12'	120° 57'	b	E of King City.
2	3	11-49-18	3.8	38.1°	118.3°	d	SE of Hawthorne, Nevada.
3	4	09-14-56	?	37° 53'	121° 43'	b	E of Berkeley.
4	6	18-35-50	1.5	38° 03'	122° 33'	b	Near San Rafael.
5	8	21-11-30	?	40.2°	124.5°	d	Off coast, SW of Arcata.
6	9	05-00-08	3.8	36° 37'	121° 01'	c	W of Llanada.
7	9	08-18-50	2.6	37° 14'	122° 10'	b	S of Palo Alto.
8	10	07-06-37	2.8	37° 12'	121° 38'	b	Near Morgan Hill. Depth about 10 km.
7	17	22-53-14	2.2	37° 13'	122° 11'	b	S of Palo Alto.
9	20	08-25-14	1.6	37.50°	121.80°		About 13 km W of Mt. Hamilton.
7	20	22-52-59	2.3	37° 17'	122° 12'	c	S of Palo Alto.
10	21	01-55-29	2.0	37.00°	122.00°		About 20 km S of Palo Alto.
11	21	06-21-06	2.6	36° 32'	121° 38'	c	SE of Salinas.
12	24	02-25-23	3.2	37° 55'	122° 16'	a	V at Berkeley, Oakland; IV at Lafayette, Moraga, Pinole, Redwood City, Richmond, San Pablo, Vallejo; I to III at Concord, El Cerrito, Pescadero, Walnut Creek.
13	24	02-39-15	2.5	36° 50'	121° 32'	a	Near San Juan Bautista.
12	24	03-03-34	3.9	37° 55'	122° 16'	a	Felt over an area of about 1500 square miles in the San Francisco Bay area. A maximum intensity of VI reported from Oakland; V at Alameda, Albany, Berkeley, El Cerrito, Orinda, Pinole, Richmond, Rodeo, San Francisco, and Sausalito; IV at Fairfax, Lafayette, Piedmont, Redwood City, St. Mary's College, South San Francisco, Vallejo; I to III at Concord, Walnut Creek.
14	25	01-00-04	2.6	37° 01'	121° 07'	b	E of Gilroy.
15	25	09-12-44	3.8	40.4°	124.8°	d	Off Cape Mendocino.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
16	26	01-25-04	3.3	41° 02'	121° 42'	c	N of Burney. Foreshock July 25 0223.
8	26	03-58-18	2.6	37° 14'	121° 42'	a	S of Mt. Hamilton.
17	26	20-14-34	3.2	39° 31'	120° 28'	c	Near Downieville.
18	26	23-05-36	2.6	36.7°	121.7°	d	Near Salinas.
19	28	21-34-20	3.0	39.4°	120.0°	d	24 km SW of Reno.
20	29	10-53-45	5.0	36° 35'	121° 11'	b	This earthquake was felt over an area of about 10,000 square miles of west central California. It was felt as far north as Santa Cruz, as far east as Mendota, and as far south as Shandon. A maximum intensity of VI was reported from Bitterwater, Pinnacles, San Benito and Soledad.
20	29	11-12-40	2.6	36° 35'	121° 11'	c	Aftershock of 1053.
20	29	11-14-10	2.5	36.6°	121.2°	d	Aftershock of 1053.
20	29	11-24-51	2.7	36° 35'	121° 11'	c	Aftershock of 1053.
20	29	11-30-43	2.8	36° 35'	121° 11'	c	Aftershock of 1053.
20	29	12-13-50	2.2	36° 35'	121° 11'	c	Aftershock of 1053.
20	29	12-18-48	2.7	36° 35'	121° 11'	b	Aftershock of 1053.
20	29	13-13-31	3.4	36° 35'	121° 11'	c	Aftershock of 1053.
20	29	13-50-00	2.8	36° 35'	121° 11'	b	Aftershock of 1053.
12	29	19-17-03	0.5	37° 56'	122° 15'	b	5 km N of Berkeley Station.
20	29	22-40-26	3.5	36° 34'	121° 09'	c	Aftershock of 1053.
20	30	07-43-43	3.0	36° 35'	121° 11'	c	Aftershock of July 29 at 10-53.
21	30	08-08-10	2.7	36° 45'	121° 05'	b	NW of Llanada.
20	31	02-04-10	3.2	36° 35'	121° 11'	c	Aftershock of July 29 at 10-53.
20	31	11-47-30	2.6	36° 35'	121° 11'	c	Aftershock of July 29 at 10-53.
	Aug						
6	1	00-57-16	3.0	36° 38'	121° 05'	b	W of Llanada.
22	1	09-45-41		41.00°	124.50°		Epicenter 35 km W of Arcata.
23	2	05-09-25	3.9	36° 21'	121° 16'	b	Near Greenfield.

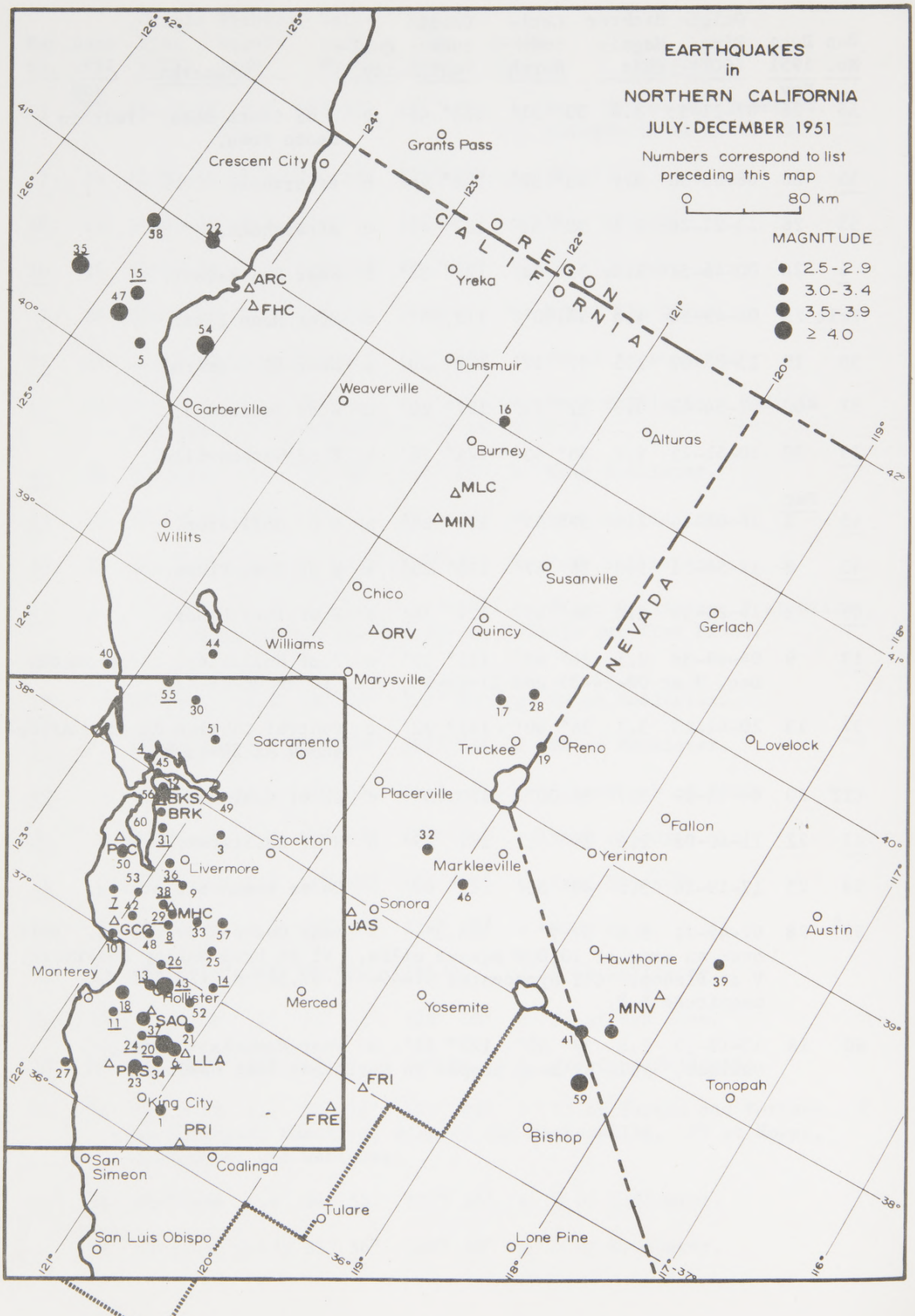
Map No.	Date 1951 Aug	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
24	3	03-59-02	2.8	36° 34'	121° 20'	c	S of Hollister.
20	3	15-17-01	3.1	36° 35'	121° 11'	c	Aftershock of July 29 at 1053.
20	4	15-29-08	2.5	36° 35'	121° 11'		Aftershock of July 29 at 1053.
20	6	09-05-02	4.9	36° 37'	121° 13'	b	This shock, the largest of a series of shocks, was felt over an area of approximately 2500 square miles of west-central California. A maximum intensity of VI was reported from Hollister and 7 miles S of Hollister; V at Aptos, Gonzales, Monterey, Morgan Hill, Redwood City, Robles Del Rio, San Lucas, Santa Cruz; IV at Ben Lomond, Big Sur, Bitterwater, Capitola, Davenport, Milpitas, San Francisco, Salinas, Watsonville; I to III at Holy City, Moss Landing, Newark, Pacific Grove.
20	6	09-54-28	3.8	36° 37'	121° 13'	b	Aftershock. Intensity V at Gilroy, 7 miles S of Hollister and Monterey. IV at Watsonville.
20	6	10-26-21	2.8	36° 35'	121° 11'	b	Aftershock of 0905.
20	6	17-21-45	3.9	36° 37'	121° 13'	b	Intensity IV at Hollister, Parkfield, San Lucas and Watsonville.
-	8	01-47-02	4.4	40.5°	127.7°	d	W of Arcata.
18	8	16-55-27	3.6	36° 40'	121° 41'	b	Near Salinas.
25	8	19-15-33	2.0	37° 13'	121° 17'	c	NE of Gilroy.
11	8	19-56-26	2.3	36° 36'	121° 40'	c	Near Spreckels.
11	8	19-57-24	2.6	36° 36'	121° 40'	c	Near Spreckels.
13	8	21-54-36	3.0	36° 48'	121° 33'	c	Near San Juan Bautista.
26	9	04-21-30	2.0	37.00°	121.50°		23 km S of Mt. Hamilton.
27	9	09-20-48	2.2	36° 09'	121° 45'	c	Near Big Sur.
24	9	13-20-06	2.8	36° 33'	121° 18'	c	S of Hollister.
28	9	20-07-21	3.2	39° 40'	120° 17'	c	SE of Susanville. Foreshock at 20-05-55.
13	9	20-40-43	2.7	36.8°	121.5°	d	SW of Hollister.
29	10	05-51-22	2.5	37° 14'	121° 40'	a	SW of Mt. Hamilton.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Aug						
18	11	10-37-45	2.9	36° 46'	121° 40'	a	N of Salinas.
18	11	11-38-00	2.8	36° 46'	121° 40'		Aftershock of 1037.
30	11	14-15-59	2.8	38.50°	122.50°		Near Santa Rosa.
31	15	18-06-28	2.0	37° 44'	122° 06'	b	In East Oakland.
32	16	13-17-09	3	38° 30'	120° 18'	b	SE of Placerville.
33	17	06-04-05	2.2	37° 19'	121° 30'		SE of Mt. Hamilton.
20	25	00-12-12	3.6	36° 38'	121° 13'	c	IV 7 miles S of Hollister.
34	25	01-04-10	3.1	36° 28'	121° 09'	b	SW of Llanada.
35	25	01-52-21	4.2	40.40°	125.30°	d	Off Cape Mendocino.
36	31	13-48-11	2.2	37° 34'	121° 56'	b	Foreshock of 1535.
36	31	15-35-35	2.5	37° 34'	121° 56'	a	SE of Niles.
	Sep						
7	2	11-04-16	2.2	37° 17'	122° 12'	c	S of Palo Alto.
15	6	11-00-02	3.9	40.5°	124.7°	d	Off Cape Mendocino.
37	6	18-59-41		36° 38'	121° 28'	c	15 km N of Gonzales.
38	6	19-20-47	1.8	37° 18'	121° 47'	c	SE of San Jose.
Felt	9	18-49-35	4.0	38.2°	118.7°	d	Excelsior Mtns., Nevada.
39	12	14-12-30		38.8°	117.9°	d	NW of Tonopah, Nevada.
40	14	02-39-35	2.5	38° 24'	123° 14'	c	Off coast, NW of Pt. Reyes.
Felt	18	02-30-00		36.25°	121.80°	d	Felt. IV at Big Sur.
13	19	19-19-57	3	36.8°	121.5°	d	Near San Juan Bautista.
Felt	19	22-50-00		36.25°	121.80°	d	Felt. IV at Big Sur.
41	22	14-11-05	3.6	38.0°	118.5°	d	E of Mono Lake.
42	22	21-17-36	2.2	37° 09'	121° 58'	c	Near Santa Cruz. Aftershock at 21-18-40.
26	24	10-28-30	2.0	37° 05'	121° 30'	b	NE of Gilroy.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
6	Sep 28	04-20-34	2.6	36° 35'	121° 10'	c	W of Llanada.
43	28	11-11-00	2.7	36° 52'	121° 25'	c	Near Hollister.
44	28	18-45-49	2.5	38° 48'	122° 35'	c	N of Santa Rosa.
45	29	00-17-57	1.4	38° 00'	122° 25'	b	N of Berkeley.
6	29	12-32-34	3.2	36° 35'	120° 55'	c	Near Llanada.
13	30	12-10-12	2.7	36° 50'	121° 32'	c	Near San Juan Bautista.
41	Oct 1	18-19-59	4.0	38° 00'	118° 50'	c	E of Mono Lake.
6	3	13-09-19	3.3	36° 35'	121° 05'	c	W of Llanada.
CIT	3	13-44-33	3.8	35.92°	120.52°	c	SW of Coalinga.
43	3	14-45-14	3.7	36° 47'	121° 18'	c	IV at Hollister and 7 miles S of Hollister.
46	4	19-20-23	3.0	38° 25'	119° 55'	d	10 km NW of Dardanelle.
47	8	04-10-35	5.8	40° 17'	124° 48'	c	Off Cape Mendocino. Felt widely in northern California. A maximum intensity of VII reported from Ferndale and Bridgeville, VI at Kneeland, Blocksburg, Alderpoint, and Bell Springs. V at Hyampom, Hayfork, Red Bluff, Willows, Blue Lake, IV at Orick, Denny, Glenn, and Comptche; III at Tehama and Paskenta.
48	10	23-52-05	2.5	37° 07'	121° 46'	c	NW of Gilroy.
29	12	13-22-40	2.1	37° 20'	121° 42'	b	Near Mt. Hamilton.
7	12	19-59-09	2.4	37° 13'	122° 13'	b	SE of Pescadero.
49$	14	01-09-24	2.1	38° 05'	121° 54'	b	N of Pittsburg.
50	14	05-00-04	3.0	37° 27'	122° 18'	a	W of Redwood City. Felt at Redwood City, San Mateo and San Carlos.
24	16	04-36-12	2.9	36° 35'	121° 24'	c	NE of Gonzales. Aftershock at 05-05-16.
14	16	16-39-23	2.9	36° 58'	121° 05'	b	In foothills SW of Los Banos.
Felt	18	08-37-00		36.75°	121.40°	d	Felt. Near Hollister.
38	21	01-19-24	2.3	37° 22'	121° 46'	c	SE of San Jose.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Oct						
43	23	15-47-21	3.6	36° 55'	121° 32'	c	Near Chittenden Junction. Aftershock at 16-15-43.
7	24	01-51-40	1.4	37° 12'	122° 12'	b	NW of Los Gatos.
26	24	04-43-22	2.1	37.0°	121.5°	d	Near Gilroy.
26	25	11-46-18	2.5	37° 00'	121° 23'	b	E of Gilroy.
7	26	01-55-04	2.2	37° 12'	122° 12'	b	NW of Los Gatos.
22	26	10-41-33	3.9	41° 00'	124° 30'	c	NW of Arcata.
43	30	19-55-14	4.0	36° 54'	121° 25'	a	Near Hollister. Felt in Hollister. Foreshock Oct. 30 at 19-30-17.
43	30	19-59-18	4.2	36° 54'	121° 25'	b	Near Hollister.
43	30	21-08-46	3.9	36° 54'	121° 25'	a	Near Hollister.
43	31	16-59-50	3.4	36° 54'	121° 25'	a	Near Hollister.
43	31	20-58-19	4.8	36° 54'	121° 25'	a	VI at Hollister, V at Gilroy, IV at Santa Cruz, San Francisco, Vallejo and Tres Pinos.
	Nov						
13	1	07-46-13	3.0	36° 52'	121° 30'	a	NW of Hollister.
43	1	08-08-20	3.9	36° 54'	121° 25'	c	NE of Hollister.
43	1	12-29-30	3.0	36° 54'	121° 25'	c	Aftershock of 0808.
26	3	00-52-34	2.9	37° 00'	121° 25'	c	Near Gilroy.
31	4	12-14-04	1.1	37° 44'	122° 08'	a	N of Hayward.
51	9	23-57-04	1.9	38° 22'	122° 12'	c	Near Napa.
52	12	13-15-10	2.5	36.9°	121.2°	d	E of Hollister.
53	13	03-36-10	2	37° 15'	122° 00'	c	SE of San Jose.
35	13	11-24-42	4.8	40.4°	125.3°	d	Off Cape Mendocino.
54	14	08-39-53	4.7	40° 26'	124° 03'	b	VI at Eureka and Fortuna. V at Trinidad, Kneeland, Miranda and Garberville. IV at Hoopa, Alderpoint and Westport.
13	14	09-06-54	2.6	36° 53'	121° 30'	c	N of Hollister.
13	26	05-12-25	2-1/2	36° 56'	121° 30'	a	N of Hollister.

Map No.	Date 1951	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
55	Nov 26	07-21-53	3.4	38° 31'	122° 45'	b	N of Santa Rosa. Felt in Santa Rosa.
55	26	08-53-30	3.2	38° 32'	122° 46'	b	Aftershock.
55	26	13-21-26	2.1	38° 31'	122° 45'	c	Aftershock.
4	28	00-46-52	2.4	38° 02'	122° 32'	b	Near San Rafael.
Felt	28	04-49-50	4.0	38.00°	119.00°	d	Near Mono Lake.
56	29	13-05-09	2.5	37° 57'	122° 18'	a	Near El Cerrito.
57	30	07-54-45	3.3	37° 25'	121° 20'	c	W of Patterson.
13	30	10-51-25	2.7	36° 53'	121° 36'	b	E of Watsonville.
43	Dec 1	16-08-36	2.6	36° 55'	121° 25'	b	N of Hollister.
43	8	12-58-11	3.0	36° 47'	121° 25'	b	W of Tres Pinos.
43	8	14-24-35	2.4	36° 47'	121° 28'	b	W of Tres Pinos.
13	9	04-49-38	2.5	36° 47'	121° 35'	c	S of Hollister. Aftershocks Dec. 9 at 08-24-35 and 11-29-18; Dec. 10 at 06-18-42.
37	13	20-42-23	3.2	36° 40'	121° 22'	c	Central Gabilan Range. Aftershock at 20-43-53.
CIT	20	04-13-06	3.7	36.00°	120.05°	c	SW of Coalinga.
43	22	11-40-08	2.3	36° 55'	121° 29'	b	N of Hollister.
58	23	17-19-26	3.5	40° 55'	125° 00'	c	Under ocean off Arcata.
59[$]	28	02-49-21	5.1	37.7°	118.3°	d	Near Owens River Gorge. Felt over an area of 10,000 square miles. VI at Long Valley Reservoir. V at Bishop. CIT hypocenter 02-49-27, 37.57° N, 118.58° W, magnitude 5.2.
60	28	13-19-39	2.8	37° 50'	122° 12'	a	Near Montclair Dist., Oakland. Felt by many people in North and East Oakland.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY-DECEMBER 1951
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5-2.9
3.0-3.4
3.5-3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Truckee
Reno
Lovelock
Sacramento
Placerville
Stockton
Fallon
Markleeville
Yerington
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PAC
MHC
GCC
SAO
LLA
PAS
PRI
FRE
FRI
JAS
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1952

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	21-45-02	3.3	36° 57'	121° 29'	c	Near Gilroy.
2	3	00-00-02	2.0	38° 18'	122° 13'	c	Between Vacaville and Napa.
3	10	11-30-19	3.3	40° 05'	120° 47'	c	Near Genesee.
4	11	01-58-45	1.2	37° 15'	121° 45'	c	SE of San Jose.
5	11	11-12-28	3.4	36° 52'	121° 40'	b	Near Watsonville.
6	19	23-10-30	3.0	37° 05'	121° 39'	b	Near Gilroy.
7	21	16-40-36	2.5	37° 02'	122° 07'	b	Near Santa Cruz.
8	26	23-10-54	2.5	37° 37'	121° 59'	a	Near Niles.
CIT	29	01-13-16	3.3	37.15°	117.05°	c	S of Tonopah, Nevada.
9	30	11-05-33	2.7	36° 18'	121° 08'	c	Near King City.
10	31	14-24-12	2.0	38° 27'	122° 20'	c	N of Napa.
11	31	21-33-12	3.6	36.4°	121.4°	c	SE of Soledad.
	Feb						
CIT	1	13-30-24	2.9	37.8°	118.7°	d	SE of Mono Lake.
CIT	1	13-52-00	3.0	37.8°	118.7°	d	SE of Mono Lake.
12	3	03-02-36	2.3	37° 02'	121° 40'	b	W of Gilroy.
CIT	4	18-25-37	3.9	37.57°	118.58°	c	Owens R. Gorge. III at Long Valley Dam.
13	5	00-12-51	1.9	37° 57'	121° 53'	b	Between Concord and Brentwood.
14	7	12-25-40	2.7	38° 50'	122° 23'	b	Between Middletown and Rumsey.
15	8	04-07-37	4.0	40.0°	125.0°	d	Under ocean off Petrolia.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
16	8	20-11-01	2.2	37° 12'	122° 14'	b	W of Los Gatos.
Felt	8	20-30-00	-	37.75°	122.5°	d	Sunset Dist. of San Francisco.
CIT	9	08-21-31	2.5	37.00°	117.95°	c	N of Lone Pine.
CIT	9	08-43-30	4.1	36.67°	117.85°	c	NE of Lone Pine. VI at Lone Pine and Owenyo. I to IV at Darwin Wash, Independence, Keeler and Whitney Portal.
CIT	9	08-54-46	3.7	36.67°	117.85°	c	NE of Lone Pine.
17	9	11-24-17	3	40.4°	123.8°	c	Near Bridgeville.
18	9	18-48-12	2.4	38.7°	122.7°	d	Near Geyserville.
CIT	9	19-44-25	3.7	36.67°	117.85°	c	NE of Lone Pine.
19	10	16-53-19	3	38.6°	117.8°	d	E of Luning, Nevada.
20	10	21-35-11	2.1	37° 29'	121° 32'	b	NE of Mt. Hamilton.
21	13	11-52-58	3.9	38.6°	117.6°	d	E of Luning, Nevada.
Felt	13	14-05-00	-	36.6°	118.1°	d	Lone Pine. Shock felt at 1635 also.
16	15	22-15-03	2.5	37° 12'	122° 14'	b	NW of Port Ano Nuevo.
22	19	06-41-25	3.8	40.6°	125.0°	d	Under ocean off Ferndale.
CIT	19	21-27-15	2.7	36.57°	118.23°	c	W of Lone Pine. Felt at Lone Pine.
23	22	12-38-55	2.8	37° 53'	121° 45'	a	Near Brentwood.
24	26	23-25-08	2.0	37° 45'	121° 59'	c	E of Hayward.
CIT	28	16-05-04	3.2	36.97°	118.03°	b	IV at Aberdeen and Fort Independence.
	Mar						
Felt	5	07-19-00	-	37.95°	122.35°	d	III at Corde Madera.
Felt	7	00-00-00	-	40.6°	122.4°	d	IV at Redding. Time approximate.

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1952

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	21-45-02	3.3	36° 57'	121° 29'	c	Near Gilroy.
2	3	00-00-02	2.0	38° 18'	122° 13'	c	Between Vacaville and Napa.
3	10	11-30-19	3.3	40° 05'	120° 47'	c	Near Genesee.
4	11	01-58-45	1.2	37° 15'	121° 45'	c	SE of San Jose.
5	11	11-12-28	3.4	36° 52'	121° 40'	b	Near Watsonville.
6	19	23-10-30	3.0	37° 05'	121° 39'	b	Near Gilroy.
7	21	16-40-36	2.5	37° 02'	122° 07'	b	Near Santa Cruz.
8	26	23-10-54	2.5	37° 37'	121° 59'	a	Near Niles.
CIT	29	01-13-16	3.3	37.15°	117.05°	c	S of Tonopah, Nevada.
9	30	11-05-33	2.7	36° 18'	121° 08'	c	Near King City.
10	31	14-24-12	2.0	38° 27'	122° 20'	c	N of Napa.
11	31	21-33-12	3.6	36.4°	121.4°	c	SE of Soledad.
	Feb						
CIT	1	13-30-24	2.9	37.8°	118.7°	d	SE of Mono Lake.
CIT	1	13-52-00	3.0	37.8°	118.7°	d	SE of Mono Lake.
12	3	03-02-36	2.3	37° 02'	121° 40'	b	W of Gilroy.
CIT	4	18-25-37	3.9	37.57°	118.58°	c	Owens R. Gorge. III at Long Valley Dam.
13	5	00-12-51	1.9	37° 57'	121° 53'	b	Between Concord and Brentwood.
14	7	12-25-40	2.7	38° 50'	122° 23'	b	Between Middletown and Rumsey.
15	8	04-07-37	4.0	40.0°	125.0°	d	Under ocean off Petrolia.

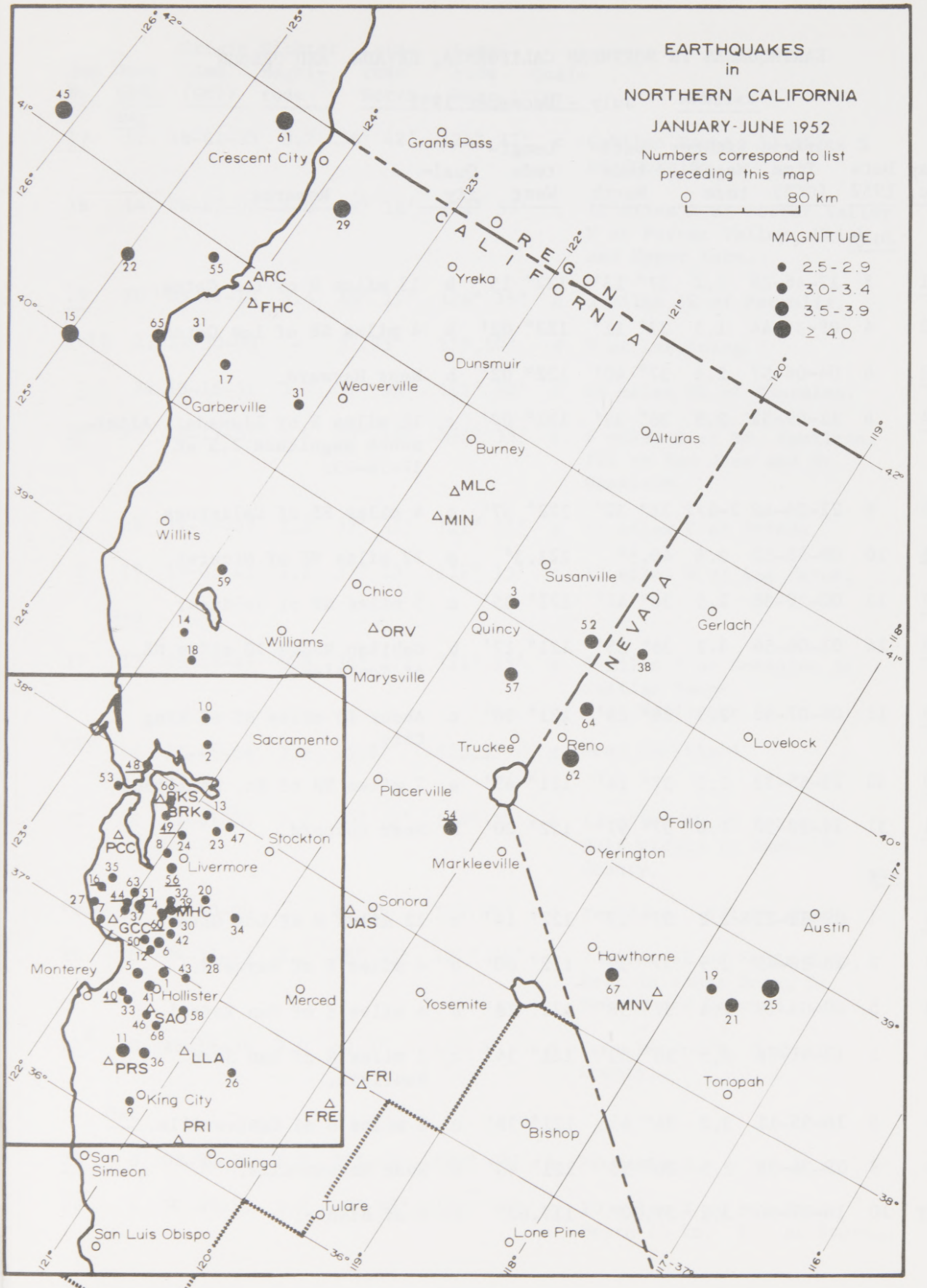
Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
16	8	20-11-01	2.2	37° 12'	122° 14'	b	W of Los Gatos.
Felt	8	20-30-00	-	37.75°	122.5°	d	Sunset Dist. of San Francisco.
CIT	9	08-21-31	2.5	37.00°	117.95°	c	N of Lone Pine.
CIT	9	08-43-30	4.1	36.67°	117.85°	c	NE of Lone Pine. VI at Lone Pine and Owenyo. I to IV at Darwin Wash, Independence, Keeler and Whitney Portal.
CIT	9	08-54-46	3.7	36.67°	117.85°	c	NE of Lone Pine.
17	9	11-24-17	3	40.4°	123.8°	c	Near Bridgeville.
18	9	18-48-12	2.4	38.7°	122.7°	d	Near Geyserville.
CIT	9	19-44-25	3.7	36.67°	117.85°	c	NE of Lone Pine.
19	10	16-53-19	3	38.6°	117.8°	d	E of Luning, Nevada.
20	10	21-35-11	2.1	37° 29'	121° 32'	b	NE of Mt. Hamilton.
21	13	11-52-58	3.9	38.6°	117.6°	d	E of Luning, Nevada.
Felt	13	14-05-00	-	36.6°	118.1°	d	Lone Pine. Shock felt at 1635 also.
16	15	22-15-03	2.5	37° 12'	122° 14'	b	NW of Port Ano Nuevo.
22	19	06-41-25	3.8	40.6°	125.0°	d	Under ocean off Ferndale.
CIT	19	21-27-15	2.7	36.57°	118.23°	c	W of Lone Pine. Felt at Lone Pine.
23	22	12-38-55	2.8	37° 53'	121° 45'	a	Near Brentwood.
24	26	23-25-08	2.0	37° 45'	121° 59'	c	E of Hayward.
CIT	28	16-05-04	3.2	36.97°	118.03°	b	IV at Aberdeen and Fort Independence.
	Mar						
Felt	5	07-19-00	-	37.95°	122.35°	d	III at Corde Madera.
Felt	7	00-00-00	-	40.6°	122.4°	d	IV at Redding. Time approximate.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
25	7	01-00-42	4	38.8°	117.4°	d	Shoshone Mountains, Nevada.
26	8	21-11-30	2.9	36° 39'	120° 36'	c	W of Tranquillity
CIT	9	00-25-48	3.4	35° 42'	120° 30'	d	Aftershock at 17-14-12; M=3.2
Felt	12	07-30-00	-	37.95°	122.35°	d	III at Corte Madera.
27	14	00-53-55	-	37° 07'	122° 12'	b	N of Davenport.
28	15	14-39-30	1.9	37° 12'	121° 12'	b	SE of Mt. Hamilton.
28	15	15-27-34	2.0	37° 09'	121° 16'	b	NW of Gilroy.
29	16	10-05-15	4.3	41° 35'	123° 45'	c	Between Klamath and Clear Creek.
30	17	18-37-03	2.4	37° 15'	121° 38'	c	10 km S of Mt. Hamilton. Aftershocks at 18-42-52 and 19-05-30.
16	18	18-45-24	2.2	37° 13'	122° 15'	b	NE of Point Ano Nuevo.
Felt	22	07-45-00	-	37.95°	122.35°	d	III at Corte Madera.
31	23	10-46-03	3.2	40° 25'	124° 08'	c	S of Scotia.
Felt	23	13-36-13	-	40.50°	121.65°	d	V at Manzanita Lake.
32	25	02-53-53	2	37° 22'	121° 45'	c	NW of Mt. Hamilton.
33	29	23-14-52	2.5	36° 42'	121° 35'	c	10 miles S of Hollister.
34$	31	01-27-45	2.4	37° 29'	121° 15'	b	20 miles NE of Mt. Hamilton.
	Apr						
35	2	00-52-45	2.1	37° 16'	122° 13'	b	About 12 miles W of San Jose.
36	2	05-21-10	3.1	36° 27'	121° 15'	b	Near Soledad.
37	2	06-03-38	1.7	37° 08'	122° 00'	b	6 miles S of Los Gatos.
38	2	11-16-00	3.0	40° 13'	119° 42'	c	10 miles E of Flanegan, Nevada. Aftershock at 1120.
39	2	12-44-07	2.1	37° 20'	121° 46'	b	6 miles W of Mt. Hamilton.
40	2	21-05-02	2.7	36° 43'	121° 40'	c	Near Salinas.
41	3	17-44-52	3.1	36° 50'	121° 31'	c	Near San Juan Bautista.

Map No.	Date 1952 Apr	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
42	5	02-18-28	1.6	37° 10'	121° 37'	b	12 miles S of Mt. Hamilton.
43	7	04-21-15	2.3	37° 00'	121° 18'	c	14 miles E of Gilroy.
44	8	08-36-09	2.5	37° 12'	122° 01'	b	2 miles S of Los Gatos.
45	9	17-11-23	4.8	41.1°	126.1°	d	100 miles W of Ferndale.
46	11	10-26-19	2.6	36° 40'	121° 24'	c	Midway between Tres Pinos and Gonzales.
47	17	18-08-42	2.0	37° 58'	121° 40'	b	Near Brentwood.
48	18	19-39-21	2.0	37° 59'	122° 31'	c	Near San Rafael.
49	19	04-37-02	2.3	37° 46'	122° 10'	a	Near Diamond Dist., Oakland.
50	19	11-31-15	2.3	37° 04'	121° 45'	c	10 miles N of Watsonville.
51	19	17-35-06	2.2	37° 17'	121° 58'	b	Near Los Gatos.
49	20	02-05-16	2.5	37° 49'	122° 06'	a	Near Diamond Dist., Oakland.
52	21	09-20-09	3.6	40.1°	120.1°	d	Near Doyle.
53	23	00-30-27	1.3	37° 49'	122° 35'	c	5 miles W of Golden Gate.
16	23	00-49-48	2.9	37° 11'	122° 18'	c	Santa Cruz Mountains.
54	25	06-25-40	3.2	38.7°	120.2°	d	20 miles SE of Pacific, Eldorado County.
39	25	11-22-14	2.1	37° 21'	121° 44'	a	14 miles W of Mt. Hamilton.
44	25	11-47-26	1.5	37° 12'	122° 03'	c	5 miles SW of Los Gatos.
40	27	01-30-04	2.7	36° 42'	121° 42'	c	Near Salinas.
55	28	00-48-43	3.0	40° 55'	124° 25'	c	20 miles W of Arcata.
44	28	02-15-31	2.2	37° 12'	122° 00'	b	Near Los Gatos.
56	28	03-01-30	3.1	37° 30'	121° 55'	b	7 miles S of Niles. Aftershock magnitude 2.0 at 03-03-01.
57	30	04-58-15	3.5	39.7°	120.5°	d	Near Calpine.
Felt	30	06-05-00	-	36.75°	121.40°	d	7 miles S of Hollister. Weak shock.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
58	5	10-43-23	2.8	36° 48'	121° 12'	c	6 miles E of Tres Pinos.
59[$]	5	13-01-49	3.1	39.3°	122.9°	d	12 miles E of Potter Valley. V at Potter Valley and Willits.
60	5	23-07-36	1.7	37° 17'	121° 46'	b	10 miles SE of Mt. Hamilton.
61	6	17-21-10	4.7	41.9°	124.6°	d	25 miles W of Klamath. Felt in Crescent City and Ferndale. USCGS gives 41.0° N as latitude.
51	8	08-21-07	1.5	37° 12'	121° 56'	b	5 miles SE of Los Gatos.
44	8	09-16-37	1.5	37° 11'	122° 04'	b	5 miles SW of Los Gatos.
62	9	15-31-32	5.1	39° 25'	119° 47'	c	12 miles S of Reno, Nevada. VI at Carson City and Virginia City.
63	11	17-57-50	2.6	37° 16'	122° 02'	b	5 miles NW of Los Gatos. Aftershock magnitude 2.3 at 18-13-50.
64	13	19-17-26	3.4	39° 45'	119° 51'	c	12 miles N of Reno, Nevada.
65	17	14-02-39	3.7	40.3°	124.4°	d	6 miles W of Petrolia.
66	18	10-52-58	2.2	37° 53'	122° 12'	a	5 miles NE of Berkeley. Felt Orinda.
54	22	18-07-39	3.5	38° 40'	120° 16'	c	14 miles SE of Pacific, Eldorado County.
48	23	17-40-46	1.4	38° 01'	122° 29'	c	4 miles NE of San Rafael.
39	28	07-00-50	2.0	37° 12'	121° 35'	b	Depth about 10 km, 10 miles S of Mt. Hamilton.
67	29	12-51-11	3.7	38.4°	118.5°	d	Near Hawthorne, Nevada.
	June						
Felt	1	11-45-00	-	37.45°	121.95°	d	IV at Warm Springs.
16	4	18-59-18	2.5	37° 14'	122° 13'	b	About 13 miles S of Palo Alto.

Map No.	Date 1952 June	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
68	9	09-21-27	2.6	36° 39'	121° 18'	c	9 miles S of Tres Pinos.
48	14	00-33-34	1.6	37° 59'	122° 34'	b	Near San Rafael.
CIT	17	17-19-31	3.4	37.62°	118.67°	c	Owens R. Gorge. IV at Long Valley Dam.
51	20	22-39-35	1.3	37° 14'	121° 57'	b	Near Los Gatos.
60	21	20-49-21	2.6	37° 14'	121° 42'	c	7 miles SW of Mt. Hamilton.
56	23	20-22-14	1.9	37° 34'	121° 51'	b	6 miles S of Pleasanton.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY-JUNE 1952
Numbers correspond to list preceding this map
0 80 km
MAGNITUDE
2.5-2.9
3.0-3.4
3.5-3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Grants Pass
Crescent City
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Truckee
Reno
Lovelock
Placerville
Fallon
Stockton
Markleeville
Yerington
Sacramento
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
SAO
JAS
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1952

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	1	17-46-29	2.2	37° 13'	122° 15'	b	13 miles W of Los Gatos.
2	4	09-33-44	1.5	37° 11'	122° 02'	b	4 miles SE of Los Gatos.
3	6	04-06-57	2.4	37° 40'	122° 02'	b	Near Hayward.
4	6	12-09-52	2.9	36° 35'	121° 07'	c	12 miles W of Llanada. Aftershock magnitude 2.5 at 12-16-03.
5	9	22-04-48	2-1/2	38° 32'	122° 37'	c	4 miles SE of Calistoga.
6	10	09-52-52	2.8	40.5°	121.3°	d	22 miles NE of Mineral.
7	12	00-20-36	2.5	36° 42'	121° 35'	c	5 miles NE of Salinas.
8	14	01-04-56	3.2	36° 35'	121° 17'	b	Gabilan Range 10 miles NE of Gonzales.
9	15	06-07-55	2.5	36° 25'	121° 00'	c	About 15 miles NE of King City.
10	30	23-55-33	2.5	37° 14'	121° 43'	a	7 miles SW of Mt. Hamilton.
11	31	11-28-50	1.8	37° 57'	122° 00'	b	Near Concord.
	Aug						
1	1	00-11-23	2.2	37° 13'	122° 14'	c	12 miles W of Los Gatos.
12	2	16-28-45	2.9	37° 39'	122° 00'	b	4 miles E of Hayward.
13	5	00-03-19	2.4	37° 58'	122° 28'	b	6 miles E of San Rafael.
14	5	13-41-28	2.5	36° 53'	121° 34'	c	2 miles N of San Juan Bautista.
15	8	18-55-11	3.2	36° 45'	121° 39'	c	6 miles E of Castroville.
16	9	09-36-09	2.5	36° 58'	121° 43'	c	Near Watsonville.
CIT	10	14-37-50	3.2	37.32°	117.62°	c	E of Bishop.

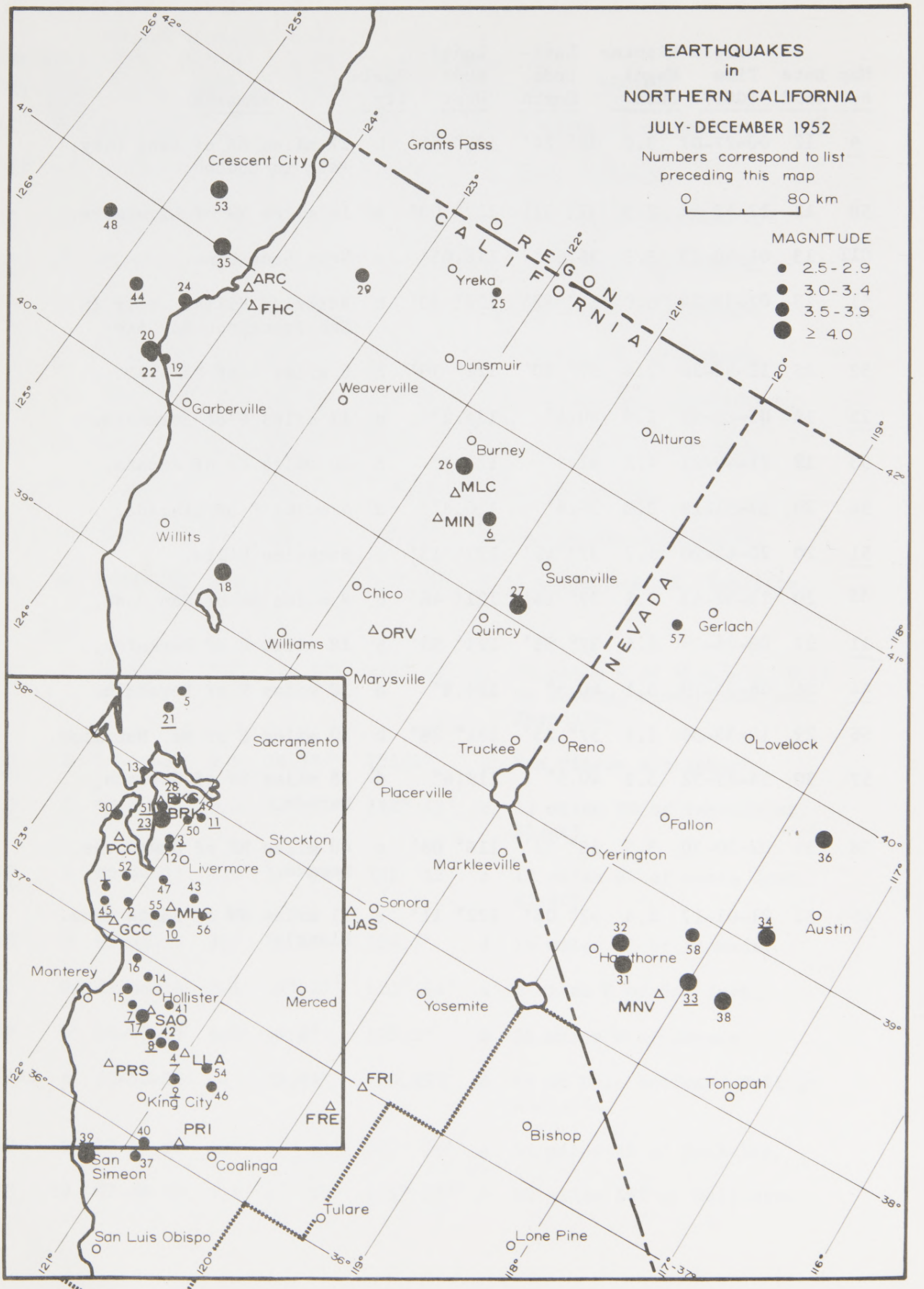
Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Aug						
17	11	16-01-35	3.2	36° 42'	121° 27'	c	Gabilan Range, 12 miles N of Gonzales.
18	14	06-47-07	4.0	39° 18'	122° 53'	c	12 miles E of Potter Valley. V at Potter Valley, Ukiah and Upper Lake.
19	20	05-42-10	3.4	40° 11'	124° 15'	c	3 miles SE of Petrolia.
Felt	22	12-30-00	-	37.95°	119.10°	d	V at Leevining.
4	24	10-16-51	3.0	36° 35'	121° 10'	c	15 miles NE of Gonzales.
10	27	15-17-37	2.9	37° 14'	121° 38'	b	6 miles S of Mt. Hamilton. III at San Jose and Mt. Hamilton.
11	29	11-59-52	2.2	37° 55"	121° 55'	c	11 miles E of Orinda.
1	29	19-03-41	2.2	37° 13'	122° 13'	c	12 miles W of Los Gatos.
	Sep						
17	13	09-06-47	3.8	36° 37'	121° 25'	b	6 miles N of Gonzales in Gabilan Range. V at Hollister.
CIT	14	11-46-06	3.3	35.9°	120.3°	d	Near Parkfield
20	22	11-41-25	5.2	40° 12'	124° 25'	c	12 miles SW of Petrolia. Felt widely in Humboldt County.
Felt	24	13-10-00	-	40.6°	124.25°	d	Ferndale. Slight shock.
21	26	04-35-43	3.2	38° 25'	122° 35'	c	7 miles SE of Santa Rosa. Felt in Santa Rosa, St. Helena and Kenwood.
22[$]	28	18-26-36	3.0	40.3°	124.2°	d	Near Petrolia, Humboldt County.
	Oct						
23	3	08-30-32	1.7	37° 44'	122° 08'	b	SE Oakland.
24	4	12-40-15	3.7	40° 35'	124° 25'	c	10 miles W of Ferndale. Depth 15 km. III at Scotia.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Oct						
25	8	05-34-26	2.8	41.7°	122.3°	d	18 miles ESE of Yreka.
23	13	00-34-09	4.2	37° 45'	122° 11'	b	Near Diamond Dist., Oakland. Felt generally in Bay area. A maximum intensity of V Diamond Dist., Oakland.
Felt	14	09-00-00	-	37.15°	122.15°		IV at Boulder Creek.
19	17	05-00-13	3.2	40° 12'	124° 14'	c	25 miles S of Ferndale.
26	17	11-34-39	4	40° 40'	121° 45'	c	23 miles N of Mineral.
23$	22	00-45-51	4	37° 48'	122° 10'	d	10 miles SE of Berkeley. Felt throughout Bay area. Maximum intensity of IV at Berkeley, Oakland, Richmond and San Francisco.
7	24	13-53-45	2.4	36.7°	121.5°	d	11 miles SSW of Hollister.
27	25	14-36-20	3.5	40.1°	120.7°	d	12 miles NE of Quincy.
28	25	19-31-44	1.9	37° 55'	122° 10'	a	5 miles NE of Berkeley.
27	26	11-36-40	4.3	40° 05'	120° 46'	b	12 miles NE of Quincy. Aftershock magnitude 3.3 at 15-28-55. III at Quincy.
1	29	00-46-29	2.3	37° 12'	122° 13'	b	15 miles S of Palo Alto.
3	29	15-11-33	1.4	37° 42'	122° 02'	b	16 miles SE of Berkeley.
29	31	10-28-24	3.5	41° 20'	123° 18'	c	45 miles SW of Yreka.
	Nov						
30	8	19-37-54	3.4	37° 39'	122° 28'	b	S of Daly City. IV at Daly City, Mill Valley, San Anselmo and San Francisco.
CIT	12	03-01-51	4.2	38.7°	118.2°	d	N of Mina, Nevada.
31	13	00-55-16	4.8	38.5°	118.5°	d	Near Hawthorne, Nevada.
32	14	08-05-42	4.2	38.6°	118.6°	d	Near Hawthorne, Nevada.
CIT	14	09-05-42	4.1	39.0°	118.0°	d	Western Nevada.
33	14	23-24-18	4.2	38.6°	118.0°	d	Nevada.
33	14	23-33-07	4.1	38.6°	118.0°	d	Nevada.

Map No.	Date 1952 Nov	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
34	15	02-29-52	4.3	39.1°	117.7°	d	Nevada.
34	15	04-38-10	4.0	39.1°	117.7°	d	Nevada.
6	15	22-56-50	3.8	40° 28'	121° 20'	b	15 miles NE of Mineral.
6	16	07-03-56	3.8	40° 28'	121° 20'	b	15 miles NE of Mineral.
35	16	21-29-45	4.1	41° 00'	124° 25'	c	18 miles NW of Arcata.
CIT	17	03-20-23	3.9	36.25°	118.38°	c	SW of Lone Pine.
36	18	04-04-08	4.6	39.8°	117.7°	d	35 miles NW of Austin, Nevada.
37[$]	19	10-06-27	3.1	35.9°	120.9°	d	26 miles SE of King City.
38	20	11-33-17	4.0	38.6°	117.7°	d	45 miles NW of Tonopah, Nevada.
21	21	23-27-25	2.4	38° 24'	122° 40'	b	4 miles SE of Santa Rosa.
4	22	02-12-10	2.8	36° 38'	121° 05'	b	10 miles W of Llanada.
39	22	07-46-37	6.0	35° 44'	121° 12'	b	6 miles N of San Simeon.
39	22	08-02-40	3.2	35° 44'	121° 12'	b	Aftershock.
39	22	08-29-47	3.1	35° 44'	121° 12'	b	Aftershock.
39	22	08-53-04	3.4	35° 44'	121° 12'	b	Aftershock.
39	22	11-08-44	3.1	35° 44'	121° 12'	b	Aftershock.
39	22	11-45-31	3.1	35° 44'	121° 12'	b	Aftershock.
39	22	12-38-44	3.0	35° 44'	121° 12'	b	Aftershock.
39	22	13-37-31	4.0	35° 44'	121° 12'	b	Aftershock.
39	22	19-25-21	3.9	35° 44'	121° 12'	b	Aftershock.
39	22	19-36-27	3.1	35.7°	121.2°	d	Aftershock.
39	22	23-39-20	3.1	35.7°	121.2°	d	Aftershock.
40	23	09-22-35	3.2	36.0°	120.9°	d	20 miles SE of King City.
39	23	18-40-19	4.2	35° 40'	121° 10'	c	San Simeon aftershock.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Nov						
41	24	01-37-22	2.7	36.8°	121.3°	d	8 miles SE of Hollister.
CIT	25	19-17-42	3.2	36.2°	120.0°	d	Near Coalinga.
39	25	20-14-45	3.6	35° 44'	121° 12'	c	San Simeon aftershock.
39	25	21-59-17	4.4	35° 44'	121° 12'	c	San Simeon aftershock.
39	26	13-32-09	3.5	35° 44'	121° 12'	c	San Simeon aftershock.
39	27	17-37-05	3.3	35.7°	121.2°	d	San Simeon aftershock.
42	27	18-02-58	3.2	36° 34'	121° 13'	c	20 miles SE of Hollister.
39	28	10-22-33	3.0	35.9°	121.2°	d	San Simeon aftershock.
Felt	29	16-00-00	-	36.0°	121.15°	d	IV at Jolon.
39	29	23-15-58	3.5	35.7°	121.2°	d	San Simeon aftershock.
43	30	01-49-05	2.9	37° 27'	121° 37'	a	7 miles N of Mt. Hamilton.
	Dec						
44	2	05-45-12	3.7	40° 30'	124° 47'	c	30 miles W of Ferndale. Felt by several along coast near Ferndale.
39	2	19-33-15	3.5	36.7°	121.2°	d	San Simeon aftershock.
45	3	00-43-51	2.0	37° 09'	122° 12'	c	13 miles NW of Santa Cruz. Blast?
45	3	00-44-11	2.5	37° 09'	122° 12'	c	13 miles NW of Santa Cruz. Blast?
46	5	01-05-57	3.0	36.5°	120.7°	d	14 miles SE of Llanada.
47	6	01-34-16	2.1	37° 27'	121° 54'	a	8 miles N of San Jose.
48	6	16-03-35	3.9	40.8°	125.3°	d	55 miles W of Arcata.
Felt	6	23-50-00	-	35.65°	120.65°	d	IV at Paso Robles. Felt at Adelaida.
49	9	23-49-36	2.6	37° 59'	122° 04'	a	12 miles NE of Berkeley.
8	10	07-36-16	2.8	36° 35'	121° 18'	b	20 miles SSE of Hollister.

Map No.	Date 1952	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
9	Dec 12	00-27-07	3.0	36° 24'	120° 58'	b	17 miles NE of King City. Felt in Lonoak.
50	12	12-43-42	2.3	37° 51'	122° 00'	a	14 miles NW of Livermore.
CIT	13	01-50-23	3.3	36.63°	118.05°	c	Near Lone Pine.
51	13	07-34-34	3.0	37° 52'	122° 13'	b	Berkeley Hills. Felt in San Francisco Bay Area.
52	15	11-52-26	2.4	37° 20'	122° 10'	b	6 miles S of Palo Alto.
22	18	03-24-55	2.8	40.4°	124.2°	d	12 miles S of Ferndale.
53	19	21-40-21	4.2	41.3°	124.7°	d	40 miles NW of Arcata.
54	20	19-51-18	3.3	36.6°	120.8°	d	6 miles E of Llanada.
51	20	20-42-20	1.7	37° 49'	122° 13'	c	Berkeley Hills.
55	20	23-52-43	2.1	37° 14'	121° 48'	b	8 miles SE of San Jose.
11	22	08-26-19	2.6	37° 53'	121° 55'	b	18 miles E of Berkeley.
44	26	06-05-19	3.1	40.5°	124.8°	d	30 miles W of Ferndale.
56	29	10-38-36	2.1	37° 23'	121° 28'	b	10 miles E of Mt. Hamilton.
57	30	14-23-32	3.2	40.5°	119.6°	d	18 miles SW of Gerlach, Nevada.
58	31	02-20-50	3.5	38° 52'	118° 08'	c	40 miles NE of Hawthorne, Nevada.
45	31	21-01-17	2.4	37° 06'	122° 11'	c	11 miles NW of Santa Cruz. Blast?


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1952
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Fallon
Stockton
Markleeville
Yerington
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
PKD
BRK
PCC
MHC
GCC
JAS
SAO
LLA
PRS
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1953

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	2	03-08-36	2.0	40.5°	121.4°	d	14 miles NE of Mineral.
2	2	10-47-53	2.5	36° 37'	121° 05'	c	8 miles W of Llanada.
3	2	19-05-02	3.2	40.5°	121.6°	d	10 miles N of Mineral. Felt at Mineral and Sulphur Works.
4	3	18-40-06	3.6	40.7°	124.4°	d	10 miles NW of Ferndale.
5	7	06-55-20	2.5	38° 27'	122° 06'	b	32 miles E of Santa Rosa.
6	8	23-22-08	3.0	40.7°	121.6°	d	25 miles N of Mineral.
6	8	23-23-07	3.2	40.7°	121.6°	d	25 miles N of Mineral.
7	11	03-19-40	3.1	39° 21'	120° 07'	c	Near Truckee. Aftershock of magnitude 2.6 at 0329.
8	11	17-07-11	2.7	36° 44'	121° 17'	c	10 miles SE of Hollister.
9	12	13-05-18	3.2	35.8°	121.1°	d	14 miles NE of San Simeon.
3	12	21-58-17	2.6	40.5°	121.5°	d	10 miles N of Mineral.
10	15	00-49-05	2.1	37° 11'	122° 12'	c	16 miles S of Palo Alto. Identical shock 18-1/2 seconds later. Blasts?
11	15	17-07-50	3.0	41.0°	121.6°	d	7 miles NE of Burney.
12	15	21-39-13	2.0	37° 57'	122° 15'	c	7 miles N of Berkeley.
13	22	14-20-32	2.4	36° 51'	121° 49'	c	12 miles SE of Santa Cruz.
14	23	08-02-28	2.0	37° 04'	121° 34'	c	20 miles S of Mt. Hamilton.
Felt	24-31	00-00-00	-	35.9°	121.0°	d	Ten shocks reported felt from 1/24 to 1/31 at Bryson.
15	24	09-59-50	3.9	39.5°	123.0°	d	20 miles ENE of Willits.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
16	26	00-43-14	2.3	37° 34'	121° 34'	b	9 miles SE of Livermore.
CIT	27	04-12-59	3.0	36.33°	118.17°	c	SW of Lone Pine.
17	27	22-10-12	2.5	36.6°	121.2°	d	15 miles W of Llanada.
17	27	23-10-35	3.3	36° 36'	121° 09'	b	13 miles W of Llanada.
9	29	20-31-19	3.1	35.8°	121.1°	d	14 miles NE of San Simeon.
18	29	21-52-48	3.6	38.5°	118.0°	d	30 miles E of Hawthorne, Nevada.
19	31	00-38-29	2.1	37.0°	119.6°	d	20 miles NE of Fresno.
	Feb						
12	2	08-48-14	2.4	37° 52'	122° 14'	c	Berkeley Hills. Felt at Albany, Berkeley and El Cerrito.
17	3	07-36-26	2.7	36° 34'	121° 12'	b	15 miles W of Llanada.
20	3	14-50-18	4.1	35° 28'	120° 45'	c	12 miles NNW of San Luis Obispo. USCGS: V at Atascadero, Creston, Morro Bay, Pleyto, and Santa Margarita.
21	3	17-43-29	2.5	37° 57'	121° 53'	b	20 miles ENE of Berkeley.
Felt	5	02-54-12	2.8	35.9°	121.0°	d	IV at Bryson (E. Weferling Ranch).
8	6	01-15-53	3.1	36° 42'	121° 19'	c	10 miles SSE of Hollister.
8	6	04-27-09	3.1	36° 42'	121° 18'	c	10 miles SSE of Hollister.
3	6	22-12-00	2.8	40.5°	121.6°	d	10 miles N of Mineral.
10	6	22-52-10	2.2	37° 12'	122° 15'	c	10 miles SSW of Palo Alto.
CIT	7	00-03-26	3.9	37.42°	118.17°	c	E of Laws. IV at Laws.
22	12	00-12-15	2.5	41.3°	123.3°	d	40 miles SW of Yreka.
23	13	22-10-06	3.2	37° 23'	121° 39'	a	4 miles N of Mt. Hamilton. Shock of slightly smaller magnitude 18 seconds later.

Map No.	Date 1953 Feb	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
Felt	15	09-10-00	-	41.0°	122.0°	d	IV at Fall River Mills.
Felt	15	15-30-00	-	35.9°	121.0°	d	Bryson (E. Weferling Ranch).
17	15	17-45-50	3.1	36° 34'	121° 13'	c	16 miles W of Llanada.
Felt	17	08-06-00	-	35.9°	121.0°	d	III at Bryson (Pleyto School).
24	17	16-35-03	2.2	37° 51'	121° 58'	c	15 miles E of Berkeley.
24	18	07-26-51	1.9	37° 48'	121° 58'	c	17 miles ESE of Berkeley.
Felt	18	14-10-00	-	35.9°	121.0°	d	Bryson (E. Weferling Ranch). Mild.
25	20	23-55-53	3.4	39° 37'	119° 41'	b	8 miles NE of Reno, Nevada. Foreshock of magnitude 3.1 at 23-16-46. Aftershock of magnitude 3.2 at 00-03-25, Feb. 21.
10	21	00-10-48	1.9	37° 13'	122° 13'	c	18 miles NW of Santa Cruz. Blast?
CIT	21	20-51-12	2.8	35.98°	118.83°	b	SW of Lone Pine.
26	23	00-00-56	2.7	37° 38'	121° 47'	a	3 miles S of Livermore.
27	23	07-42-51	4.7	41° 30'	125° 56'	c	About 100 miles WNW of Arcata.
28	23	09-09-50	3.7	40° 57'	121° 29'	b	8 miles NE of Burney. IV at Pittville.
8	24	20-59-27	3.0	36° 43'	121° 15'	c	12 miles SE of Hollister.
29	25	08-44-43	3.4	40° 40'	121° 38'	c	21 miles N of Mineral.
10	25	21-44-08	1.8	37.2°	122.2°	d	13 miles S of Palo Alto. Blast?
Felt	26	01-15-00	-	41.5°	120.2°	d	III at Cedarville.
30	26	20-05-51	2.9	40° 18'	124° 12'	c	18 miles S of Ferndale.
29	27	16-55-01	3.3	40° 40'	121° 35'	c	21 miles N of Mineral.
17	28	01-00-20	3.5	36° 34'	121° 09'	a	12 miles W of Llanada.
24	28	11-47-55	1.7	37° 50'	121° 57'	b	17 miles E of Berkeley.
31	28	15-07-42	2.7	40.9°	121.9°	d	12 miles W of Burney.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
Felt	1	18-53-00	-	35.9°	121.0°	d	V at Bryson.
6	2	21-00-22	2.9	40.7°	121.6°	d	12 miles S of Burney.
23	3	19-15-12	2.0	37° 23'	121° 36'	c	4 miles NE of Mt. Hamilton.
Felt	4	03-40-00	-	35.9°	121.0°	d	Bryson (Pleyto School). Light.
10	5	11-48-58	1.7	37° 08'	122° 07'	c	12 miles NNW of Santa Cruz. Blast?
10	5	12-30-28	1.7	37° 08'	122° 07'	c	12 miles NNW of Santa Cruz. Blast?
26	7	08-55-05	1.6	37° 37'	121° 46'	b	3 miles S of Livermore.
32	8	07-37-26	3.4	37° 45'	118° 26'	c	26 miles N of Bishop.
33	8	12-28-26	1.9	37° 15'	121° 42'	c	7 miles SW of Mt. Hamilton.
10	8	23-06-45	2.5	37° 12'	122° 07'	b	15 miles S of Palo Alto.
34	9	00-17-00	2.4	40.6°	123.5°	d	30 miles West of Weaverville.
35	12	09-38-18	1.8	37° 50'	123° 04'	c	30 miles W of San Francisco.
36	12	21-35-30	3.5	40.7°	125.5°	d	70 miles W of Arcata.
37	14	05-01-04	2.1	37° 18'	121° 27'	c	10 miles E of Mt. Hamilton.
38	14	08-22-51	2.6	41.0°	122.0°	d	17 miles WNW of Burney.
39	14	17-22-36	2.3	37° 39'	122° 30'	a	S of San Francisco. Felt at Hayward.
Felt	15	05-15-00	-	37.65°	119.8°	d	IV at El Portal.
40	16	01-16-49	2.5	37° 18'	121° 34'	b	5 miles SE of Mt. Hamilton.
41	16	08-52-06	4.0	36° 57'	121° 40'	b	18 miles E of Santa Cruz. V at Gilroy and Santa Cruz. IV at Monterey, Morgan Hill, San Jose, Watsonville. Aftershock of magnitude 2.3 at 10-13-13.
Felt	18	05-03-00	-	35.9°	121.0°	d	III at Bryson (Pleyto School).
42	19	06-20-04	3.0	38° 21'	122° 07'	c	32 miles ESE of Santa Rosa.

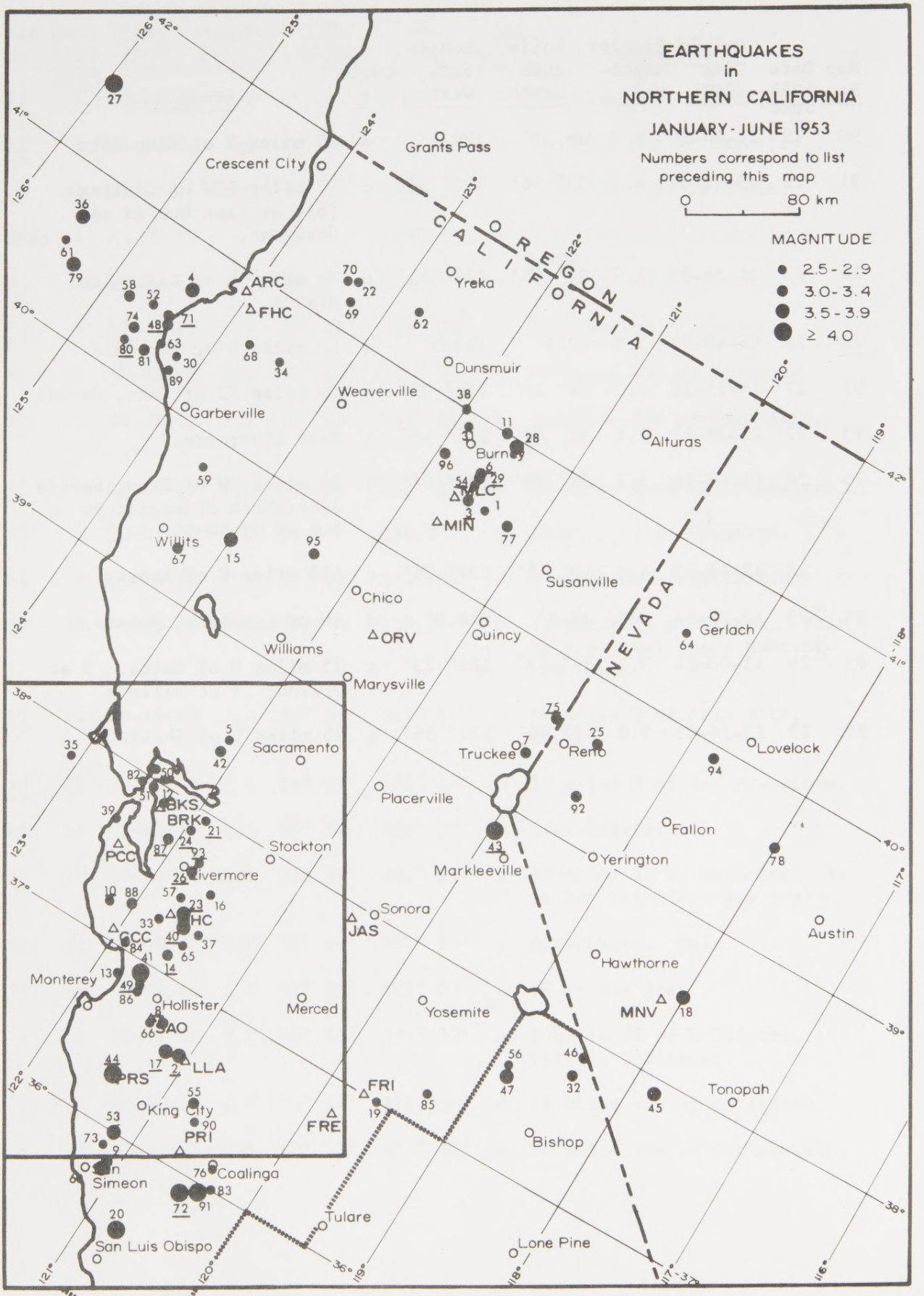
Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
43	22	05-19-00	5.0	38° 49'	119° 59'	a	13 miles NW of Markleeville. V at Meyers. IV at Emigrant Gap, Markleeville, Tahoe City, Yosemite. III at Carson City, Nevada.
43	22	05-57-56	2.9	38° 49'	119° 59'	b	Aftershock.
43	22	06-32-29	3.1	38° 49'	119° 59'	b	Aftershock.
43	22	14-10-25	4.3	38° 49'	119° 59'	b	Aftershock. V at Meyers. IV at Markleeville and Tahoe City.
CIT	29	17-19-36	3.7	35.9°	120.2°	d	Dudley.
	Apr						
44	2	16-20-16	2.4	36.8°	121.4°	d	4 miles S of Hollister.
6	2	22-56-12	3.2	40.7°	121.6°	d	15 miles S of Burney.
	6	18-28-20	3.6	42.4°	122.9°	d	20 miles ESE of Grants Pass, Oregon.
45	7	01-12-01	3.5	37.9°	117.8°	d	30 miles WSW of Tonopah, Nevada.
46	7	06-07-19	3.4	37.9°	118.3°	d	40 miles SSE of Hawthorne, Nevada.
10	9	22-56-48	2.2	37° 12'	122° 15'	b	16 miles S of Palo Alto.
47	10	05-11-44	3.9	37° 32'	118° 59'	c	30 miles NW of Bishop. IV at June Lake, III at Long Valley Dam.
8	10	07-20-02	2.7	36° 42'	121° 17'	c	13 miles SE of Hollister.
48	11	03-26-14	3.2	40° 26'	124° 18'	c	10 miles S of Ferndale. Felt at Ferndale.
49	12	19-35-11	2.7	36° 49'	121° 33'	c	7 miles W of Hollister.
9	15	00-29-10	3.1	35° 50'	121° 04'	c	14 miles NNE of San Simeon. IV at Bryson.
Felt	15	05-30-00	-	35.9°	121.0°	d	Bryson. Light.
50	16	19-05-48	2.2	38° 04'	122° 28'	b	17 miles NW of Berkeley.
51	24	23-40-15	2.1	37° 56'	122° 24'	a	Quarry blast at Richmond, 8 miles NW of Berkeley.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Apr						
23	25	00-42-30	2.7	37° 21'	121° 38'	b	Near Mt. Hamilton.
	25	16-34-45	4.1	40.5°	126.2°	d	100 miles W of Ferndale.
52	26	03-28-55	2.9	40.5°	124.6°	d	20 miles WSW of Ferndale.
14	27	10-04-10	2.6	37° 08'	121° 36'	c	15 miles S of Mt. Hamilton.
53	29	05-26-53	3.5	36° 00'	121° 09'	c	14 miles S of King City.
54	30	14-00-48	2.9	40.6°	121.6°	d	15 miles N of Mineral.
	May						
54	1	03-35-38	2.1	40.6°	121.6°	d	15 miles N of Mineral.
55	1	22-16-51	3.0	36.4°	120.8°	d	22 miles NE of King City.
56	3	13-28-55	2.2	37.6°	118.9°	d	33 miles NW of Bishop.
57	4	05-40-26	2.4	37° 27'	121° 44'	a	9 miles NW of Mt. Hamilton.
CIT	6	00-51-31	3.4	37.07°	118.0°	b	Waucoba Mountain.
3	6	04-00-24	2.5	40° 28'	121° 33'	c	10 miles N of Mineral.
58	6	21-48-23	3.3	40° 27'	124° 38'	c	10 miles SW of Ferndale.
59	10	13-18-35	2.9	39.8°	123.5°	d	30 miles N of Willits.
3	11	09-28-49	2.6	40° 30'	121° 30'	c	12 miles N of Mineral.
CIT	14	03-36-00	3.3	36.00°	120.00°	d	Polvadero Gap.
60	14	09-36-09	3.7	35° 45'	121° 05'	b	9 miles NE of San Simeon.
8	14	21-06-51	2.4	36° 45'	121° 19'	c	8 miles SE of Hollister.
2	15	03-43-17	3.9	36° 36'	121° 02'	c	7 miles W of Llanada.
Felt	15	07-15-00	-	35.9°	121.0°	d	IV at Bryson.
61	17	10-02-50	2.5	40.5°	125.5°	d	65 miles W of Ferndale.
62	17	13-56-21	2.0	41° 21'	122° 42'	c	25 miles S of Yreka.
63	18	09-27-59	2.9	40° 18'	124° 21'	b	18 miles S of Ferndale.
64	18	11-46-56	2.3	40.5°	119.5°	d	SW of Gerlach, Nevada.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
65	18	22-42-07	2.4	37° 12'	121° 32'	c	12 miles SE of Mt. Hamilton.
Felt	19	19-14-00	-	41.0°	122.0°	d	IV at Fall River Mills.
66	20	21-27-26	2.4	36.7°	121.4°	d	S of Hollister.
40	23	21-16-22	3.6	37° 18'	121° 37'	a	Near Mt. Hamilton. III at Lick Observatory.
40	24	10-58-08	2.3	37° 18'	121° 37'	b	Aftershock.
44	25	00-23-30	4.0	36° 49'	121° 28'	b	5 miles SW of Hollister. V at Hollister, IV at Gilroy, Morgan Hill, and San Juan Bautista.
67	25	04-07-59	3.2	39.3°	123.3°	d	Between Ukiah and Willits. VI at Capella and Ukiah. V at Potter Valley. IV at Hopland, Lakeport, Upper Lake, Willits.
68	25	14-57-53	2.8	40° 35'	123° 45'	c	26 miles E of Ferndale.
69	25	16-34-58	2.9	41° 10'	123° 18'	c	34 miles NW of Weaverville.
70	26	08-35-39	2.6	41.3°	123.4°	d	42 miles NW of Weaverville.
71	28	01-54-08	3.0	40.5°	124.4°	d	10 miles SW of Ferndale.
72	28	03-51-13	4.3	35° 53'	120° 30'	b	20 miles SW of Coalinga. IV at Paso Robles, III at San Miguel.
72	28	07-58-33	3.5	35° 53'	120° 30'	c	Aftershock. Felt at San Miguel.
73	29	10-20-16	2.9	35.9°	121.2°	d	20 miles S of King City.
74	30	11-12-39	3.0	40.3°	124.6°	d	30 miles SW of Ferndale.
75	30	14-55-53	3.2	39° 38'	120° 00'	b	12 miles NW of Reno, Nevada.
71	30	20-45-44	3.6	40° 28'	124° 27'	c	13 miles SW of Ferndale.
76	31	23-51-17	3.2	36.1°	120.4°	d	Near Coalinga.
	June						
77	1	02-30-39	3.0	40° 30'	121° 11'	c	25 miles ENE of Mineral.

Map No.	Date 1953 June	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
78	1	03-16-54	3.3	39.6°	118.0°	d	40 miles E of Fallon, Nevada.
21	4	00-28-27	2.2	37° 57'	121° 54'	b	20 miles ENE of Berkeley.
79	4	09-20-29	3.9	40° 26'	125° 20'	c	55 miles W of Ferndale.
Felt	4	11-40-00	-	35.5°	120.5°	d	V at Creston. Probably a blast.
80	4	12-28-55	2.8	40.2°	124.6°	d	30 miles SW of Ferndale.
80	5	12-03-08	2.9	40° 12'	124° 38'	c	30 miles SW of Ferndale.
81	5	12-11-43	3.0	40° 13'	124° 28'	c	25 miles SSW of Ferndale.
10	5	21-21-12	1.9	37° 14'	122° 15'	b	12 miles SSW of Palo Alto. Blast?
82	6	18-00-20	1.8	37° 58'	122° 28'	b	12 miles N of San Francisco.
83	6	20-26-33	2.9	36.0°	120.3°	d	10 miles S of Coalinga.
84	9	01-49-57	2.4	37° 02'	121° 55'	c	6 miles NE of Santa Cruz.
85	10	05-28-39	2.5	37.2°	119.3°	d	40 miles NE of Fresno. Felt at Big Creek (near Huntington Lake).
10	10	21-19-03	2.0	37° 13'	122° 12'	b	14 miles S of Palo Alto. Blast?
50	11	23-35-43	2.2	38° 03'	122° 28'	c	18 miles N of San Francisco.
86	12	02-45-36	2.2	36° 52'	121° 37'	c	Near Hollister.
87	12	17-50-00	3.1	37° 44'	122° 04'	a	12 miles SE of Berkeley. IV in San Francisco Bay region.
87	13	00-00-30	2.8	37° 44'	122° 04'	c	Aftershock. Felt.
88	13	00-01-14	3.1	37° 15'	122° 01'	c	SW of San Jose.
8	13	22-54-05	3.2	36° 46'	121° 17'	a	8 miles SE of Hollister. Felt at Hollister.
49	14	11-05-19	2.5	36° 48'	121° 38'	c	12 miles WSW of Hollister.
89	18	03-31-15	2.5	40° 12'	124° 12'	c	22 miles WNW of Garberville.

Map No.	Date 1953 June	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
90	19	11-24-50	2.8	36.3°	120.7°	d	20 miles E of King City.
91	22	15-22-35	4.3	35° 56'	120° 23'	c	15 miles SSW of Coalinga. Felt at Paso Robles and Coalinga.
10	23	21-38-05	1.9	37° 15'	122° 15'	c	12 miles S of Palo Alto. Blast?
48	26	05-40-32	3.1	40.4°	124.3°	d	12 miles S of Ferndale.
92	27	14-15-58	3.3	39° 17'	119° 35'	c	15 miles SE of Reno, Nevada.
93	27	22-39-22	2.5	37° 42'	121° 46'	c	Near Livermore.
75	28	01-43-16	3.7	39° 38'	120° 02'	b	14 miles NW of Reno, Nevada. Aftershock of magnitude 2.6 at 03-00-59.
	28	12-45-13	4.6	40° 45'	127° 26'	c	170 miles W of Arcata.
94	28	13-24-24	3.3	39.9°	118.8°	d	SW of Lovelock, Nevada.
95	29	11-08-24	3.1	39° 43'	122° 23'	c	25 miles W of Chico. V at Orland, IV at Willows.
96	29	13-24-03	3.0	40° 40'	121° 56'	c	25 miles E of Shasta.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY - JUNE 1953
Numbers correspond to list preceding this map
0 80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Alturas
Willits
Chico
Williams
Marysville
Susanville
Quincy
Gerlach
Sacramento
Placerville
Stockton
Truckee
Reno
Lovelock
Fallon
Yerington
Markleeville
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
Bishop
King City
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
HC
CCC
JAS
SAO
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1953

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	1	09-56-08	2.4	40.5°	123.6°	d	35 miles E of Ferndale.
	3	22-00-45	3.8	40.4°	126.0°	d	90 miles W of Ferndale.
2	6	19-38-51	3.8	38.6°	118.1°	d	E of Hawthorne, Nevada.
	8	03-01-15	3.5	42.4°	119.1°	d	SE Oregon.
3	8	03-37-37	3.1	40.6°	124.3°	d	4 miles W of Ferndale.
4	11	11-01-47	1.5	37° 20'	121° 40'	b	Near Mt. Hamilton.
Felt	13	13-00-00	-	37.5°	117.7°	d	III at Palmetto, Nevada (SE of Dyer).
5	14	01-48-12	2.8	36.6°	121.2°	d	15 miles SE of Hollister.
6	14	09-28-10	2.6	36° 55'	121° 29'	c	6 miles NW of Hollister.
7	15	16-00-28	2.9	38° 39'	120° 10'	c	20 miles W of Markleeville.
8	17	07-28-34	3.9	40° 14'	124° 30'	c	27 miles SSW of Ferndale. III at Westport.
9	24	20-55-51	2.5	37° 12'	122° 12'	b	15 miles S of Palo Alto. Blast?
10	25	16-13-58	3.8	37° 07'	121° 46'	b	15 miles SSE of San Jose. Felt as light shock in San Francisco Bay area.
11	28	03-27-40	2.4	36° 48'	121° 18'	c	7 miles SE of Hollister.
12	28	15-54-32	2	37° 17'	121° 37'	b	Near Mt. Hamilton.
13	29	10-34-06	3.3	40.6°	125.1°	d	45 miles W of Ferndale.
14	30	23-32-23	2.5	38.8°	120.0°	d	12 miles NW of Markleeville.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Aug						
15	1	17-19-13	3.0	40° 36'	121° 26'	b	19 miles NE of Mineral.
16	1	20-48-16	3.3	40.3°	120.0°	d	35 miles ESE of Susanville.
17	4	14-23-24	3.3	40° 29'	125° 11'	c	50 miles W of Ferndale.
12	6	00-09-33	1.6	37° 18'	121° 41'	b	Near Mt. Hamilton.
18	6	21-33-25	1.3	38° 12'	122° 10'	c	25 miles N of Berkeley.
19	7	00-22-48	3.1	40.6°	124.0°	d	10 miles E of Ferndale.
20	7	05-16-20	3.1	39° 59'	120° 01'	c	31 miles NNW of Reno.
21	7	23-51-34	3.5	40.7°	123.8°	d	20 miles SE of Arcata.
22	10	03-04-27	3.1	36° 41'	121° 21'	b	11 miles S of Hollister.
23	10	23-35-56	1.5	38° 03'	122° 28'	a	17 miles N of San Francisco.
CIT	13	20-41-36	3.4	37.9°	118.2°	d	60 miles N of Bishop.
24	14	01-40-06	2.9	36.3°	120.3°	d	8 miles N of Coalinga.
25	14	09-22-50	2.3	36.5°	121.2°	d	20 miles N of King City.
26	15	04-15-41	3.0	40° 28'	124° 06'	b	11 miles SE of Ferndale. Press reported a light shock jarred the Ferndale area.
27	15	04-54-49	3.3	40° 20'	124° 22'	c	17 miles S of Ferndale.
28	16	23-07-23	2.2	36° 58'	122° 15'	a	11 miles W of Santa Cruz.
29	20	01-39-03	2.7	40.8°	122.1°	d	NE of Shasta.
29	20	01-48-09	3.2	40.8°	122.1°	d	NE of Shasta.
30	20	05-37-45	3.2	39° 40'	119° 40'	c	12 miles NE of Reno.
31	21	10-28-00	2.1	38.3°	122.6°	d	SE of Santa Rosa.
32	22	11-31-28	2.7	39° 13'	120° 13'	b	SW of Truckee.
33	23	12-21-58	3.3	40° 29'	121° 43'	b	10 miles NW of Mineral. V at Mineral. Awakened some people at Manzanita Lake.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Aug						
34	24	10-42-56	3.5	39° 15'	120° 18'	b	8 miles SW of Truckee.
35	26	00-00-10	2.0	37° 59'	122° 26'	a	14 miles N of San Francisco. Tiny aftershock at 0035.
36	28	07-00-29	2.1	38° 42'	122° 04'	a	NE of Berkeley.
37	30	04-16-47	2.6	40.8°	121.6°	d	SE of Burney.
	Sep						
38	1	04-50-52	2.8	36° 47'	121° 26'	c	Near Hollister.
9	1	19-17-54	2.2	37° 15'	122° 13'	b	11 miles S of Palo Alto. Blast?
39	2	09-41-20	3.0	35.9°	120.8°	d	30 miles SE of King City.
Felt	3	11-00-00	-	35.5°	120.5°	d	Felt in Creston.
40	4	03-54-25	3.5	35° 54'	120° 19'	c	15 miles S of Coalinga. IV at Creston and Paso Robles.
41	5	17-28-00	2.2	37° 31'	121° 48'	a	10 miles S of Livermore.
42	6	04-38-21	2.4	36° 45'	121° 13'	c	SE of Hollister.
43	9	04-54-53	2.2	37° 25'	121° 37'	b	N of Mt. Hamilton.
44	9	18-04-30	2.3	37° 12'	122° 19'	c	16 miles SSW of Palo Alto.
45	11	17-07-58	1.9	37° 36'	121° 52'	c	SW of Livermore.
	12	18-54-33	4.6	40.6°	126.7°	d	115 miles W of Ferndale.
46	13	20-57-08	2.1	37° 13'	121° 55'	c	S of San Jose.
47	13	22-28-26	3.3	38.7°	119.7°	d	Near Markleeville.
5	15	01-24-33	2.7	36° 35'	121° 12'	c	15 miles W of Llanada. Aftershock of magnitude 2.3 at 02-23-00.
48	15	09-40-41	3.6	40° 16'	124° 18'	c	20 miles S of Ferndale. III at Westport (Mendocino County).
CIT	16	15-41-21	3.9	37.33°	117.0°	c	20 miles E of Bishop.
49	18	03-12-19	3.0	40.3°	124.3°	d	25 miles S of Ferndale.

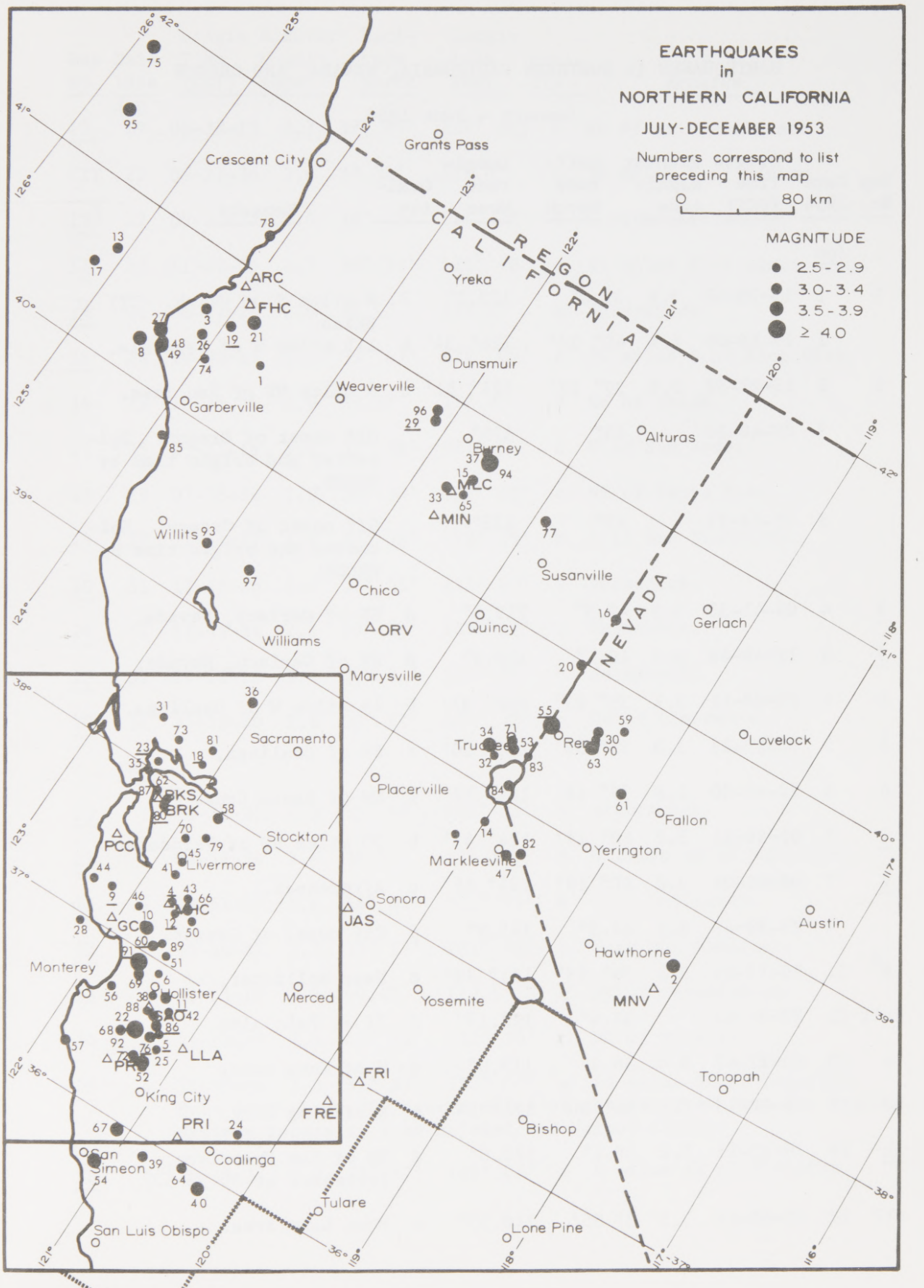
Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
23	Sep 19	22-59-28	1.9	38° 03'	122° 26'	a	15 miles NW of Berkeley.
50	20	06-14-57	2.0	37.3°	121.5°	d	Near Mt. Hamilton.
51	22	07-30-27	2.7	37° 01'	121° 33'	c	14 miles NW of Hollister.
52	22	07-36-58	3.8	36.4°	121.2°	d	N of King City.
53	22	20-46-20	3.4	39° 12'	120° 08'	c	S of Truckee.
54	23	06-21-51	3.5	35.7°	121.1°	d	Near San Simeon. V at Bryson.
55	26	03-34-29	5.3	39° 32'	119° 59'	b	8 miles W of Reno, Nevada. Sharp shock felt over approximately 12,000 square miles of western Nevada and northeastern California. Minor damage at Reno, Nevada. Maximum intensity VI at Olinghouse Canyon, Reno and Vista, Nevada, and at Floriston, California. V at Cinnabar Hill Ranch, Fernley, Sparks, and Virginia City, Nevada, and at Baxter, Chilcoot, and La Porte, California.
55	26	03-43-19	2.7				Aftershock.
55	26	04-16-33	3.0				Aftershock.
55	26	04-17-20	3.0				Aftershock.
55	26	04-37-54	2.8				Aftershock.
55	26	05-04-00	3.4				Aftershock.
56	26	17-16-18	2.5	36° 42'	121° 45'	c	9 miles NE of Monterey.
5	28	22-52-45	2.7	36.6°	121.2°	d	15 miles W of Llanada.
55	29	10-16-43	3.1				Aftershock of Sept. 26 at 03-34.
	Oct						
57	1	03-56-15	3.4	36° 15'	121° 50'	c	25 miles S of Monterey. IV at Big Sur.
58	3	03-18-05	3.2	37° 58'	121° 46'	a	25 miles W of Stockton.
59	4	01-19-57	2.7	39° 45'	119° 27'	c	20 miles NE of Reno.
60	5	14-17-44	3.0	37° 02'	121° 39'	b	20 miles S of Mt. Hamilton. Aftershock of magnitude 2.8 at 14-36-42.
61	5	16-53-34	3.3	39.4°	119.2°	d	W of Fallon, Nevada.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Oct						
5	6	12-25-41	2	36.6°	121.3°	d	SE of Hollister.
60	7	20-51-07	3.0	37° 04'	121° 39'	c	S of Mt. Hamilton.
27	8	23-40-46	3.9	40° 19'	124° 25'	b	20 miles SSW of Ferndale. Felt at Ferndale.
62	11	00-08-17	2.6	37° 53'	122° 13'	b	Near Berkeley.
63	12	19-37-00	3.7	39° 31'	119° 36'	c	E of Reno, Nevada. Felt Reno.
64	16	03-45-35	3.4	35° 57'	120° 32'	c	SW of Coalinga.
65	18	10-19-58	2.8	40.5°	121.6°	d	N of Mineral.
66	19	23-35-25	3.8	37° 21'	121° 35'	a	Near Mt. Hamilton.
67	24	13-24-30	3.6	35.9°	121.1°	d	S of King City.
68	25	06-43-25	3.2	36.5°	121.5°	d	NW of King City.
19	26	01-43-55	2.9	40° 36'	123° 56'	c	15 miles E of Ferndale.
Felt	26	05-00-00	-	36.75°	121.4°	d	Slight shock 7 miles S of Hollister.
69	26	15-50-57	3.0	36° 52'	121° 37'	c	11 miles W of Hollister, IV.
70	28	01-27-38	2.0	37° 45'	121° 55'	c	NW of Livermore.
71	29	12-41-11	3.3	39° 21'	120° 13'	b	Near Truckee.
27	29	19-19-49	3.4	40° 20'	124° 24'	c	17 miles SSW of Ferndale.
11	29	23-58-46	3.4	36° 47'	121° 21'	c	5 miles SE of Hollister, IV.
CIT	30	07-35-45	4.4	37.63°	118.3°	c	White Mtns. IV at Yosemite Village.
	30	18-53-27	4.2	44°	130°	d	Off coast of Oregon.
	Nov						
72	2	00-52-06	3.4	36.4°	121.3°	d	NW of King City.
73	2	03-02-56	2.5	38° 16'	122° 24'	c	SE of Santa Rosa.
74	2	07-18-12	2.8	40° 22'	123° 59'	c	20 miles SE of Ferndale.

Map No.	Date 1953	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Nov						
75	4	06-10-21	3.5	41.8°	125.8°	d	75 miles W of Crescent City.
	4	21-58					Near Corvallis, Oregon. Felt at Corvallis.
76	6	16-29-12	3.0	36° 33'	121° 16'	b	20 miles SSE of Hollister.
76	6	17-14-15	3.1	36° 33'	121° 16'	b	20 miles SSE of Hollister.
	7	12-20-51	3.8	41.3°	127.3°	d	165 miles W of Arcata. Foreshocks at 1039, 1130 and 1133. Aftershocks at 1231 and 1234.
	12	13-25-33	3.5	40.3°	125.9°	d	75 miles off Cape Mendocino.
77	13	05-02-04	3.4	40° 37'	120° 55'	c	40 miles NE of Mineral.
78	18	06-57-08	3.2	41.2°	124.1°	d	20 miles N of Arcata.
79	19	23-04-02	2.0	37° 48'	121° 47'	b	8 miles N of Livermore.
76	20	00-06-08	3.3	36° 33'	121° 16'	c	20 miles W of Llanada.
80	20	05-18-12	2.2	37° 49'	122° 12'	a	5 miles SE of Berkeley. Felt in East Oakland and San Leandro.
4	23	11-16-48	2.1	37° 20'	121° 45'	c	6 miles W of Mt. Hamilton. Foreshock of magnitude 2.0 at 10-46-58.
81	25	23-54-10	2.2	38.3°	122.1°	d	30 miles N of Berkeley.
82	26	14-30-52	3.2	38° 45'	119° 36'	c	ENE of Markleeville.
83	27	04-41-05	2.4	39.3°	120.0°	d	E of Truckee.
18	27	09-25-46	2.5	38.2°	122.1°	d	25 miles NE of Berkeley.
	Dec						
84	7	20-10-01	3.2	39.1°	120.0°	d	Lake Tahoe region.
85	8	01-45-10	2.7	39.8°	123.9°	d	20 miles S of Garberville.
86	8	10-59-01	3.1	36° 38'	121° 17'	b	15 miles SE of Hollister.
86	8	11-36-23	3.0	36° 38'	121° 17'	b	Aftershock.
86	8	13-55-26	2.5	36° 38'	121° 17'	c	Aftershock.
87	10	02-12-50	1.8	37° 55'	122° 18'	b	NW of Berkeley.

Map No.	Date 1953 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
60	10	17-20-35	2.7	37° 02'	121° 36'	b	20 miles S of Mt. Hamilton.
88	12	22-07-01	2.4	36.7°	121.4°	d	S of Hollister.
89	15	06-13-08	2.2	37.1°	121.6°	d	NW of Hollister.
90	15	06-13-08	2.0	39.6°	119.6°	d	NE of Reno, Nevada. Origin time almost identical to preceding shock.
91	16	00-05-26	3.5	36° 55'	121° 39'	b	Foreshock of Dec. 17 at 0513. Five miles E of Watsonville. IV at Aptos. Also felt at Gilroy, Moss Landing, and Los Gatos.
	16	04-32	4±				Northwestern Oregon. Felt over an area of approximately 3000 square miles in northwestern Oregon and across the Columbia River at a few localities in Washington. Maximum intensity VI at Portland, Oregon, and Vancouver, Washington.
92	16	10-54-22	3.7	36° 33'	121° 24'	c	20 miles S of Hollister. V at Hollister and 7 miles S of Hollister.
Felt	16	12-10-00	-	38.75°	123.5°	d	III 6-7 miles N of Gualala.
91	16	23-09-39	3.8	36° 55'	121° 40'	b	Foreshock of Dec. 17 at 0513. IV at Glenwood, Moss Landing, San Francisco and South San Francisco.
91	17	04-50-30	3.7	36° 55'	121° 40'	b	Foreshock of 0513. IV at Hollister, 7 miles S of Hollister, Moss Landing, and San Juan Bautista.
91	17	04-53-54	2.6	36° 55'	121° 40'	c	Foreshock of 0513.
91	17	05-13-12	4.2	36° 55'	121° 40'	a	14 miles NW of Hollister. Felt over approximately 3500 square miles of the coastal region of west-central California. Maximum intensity VI at Watsonville and on the Chittenden Pass road 5 miles W of Chittenden Junction (boulders strewn on road). V at Alviso, Chualar Canyon, Gilroy, Hollister, Los Gatos, Mt. Hermon, and Santa Cruz.
91	17	05-39-41	3.6	36° 55'	121° 40'	b	Aftershock. IV at Moss Landing and 7 miles S of Hollister.
91	17	06-54-47	3.5	36° 55'	121° 40'	b	Aftershock. II at Moss Landing.
9	17	22-11-26	1.9	37° 13'	122° 15'	b	15 miles S of Palo Alto. Blast?

Map No.	Date 1953 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
93	21	06-37-39	3.1	39.4°	123.1°	d	14 miles E of Willits. IV at Willits. Small aftershocks at 06-44-43 and 09-10-09.
Felt	21	13-00-00	-	37.5°	118.25°	d	IV at Laws.
4	21	14-03-39	1.7	37° 22'	121° 44'	a	NW of Mt. Hamilton.
CIT	23	03-42-18	2.4	37.5°	118.0°	d	E of Bishop. IV at Laws.
	23	11-45-03	3.7	42.5°	127.1°	d	200 miles NW of Arcata.
94	24	07-17-39	4.0	40° 45'	121° 33'	c	30 miles N of Mineral.
95	27	04-45-52	3.7	41.4°	125.7°	d	85 miles NW of Ferndale.
80	27	12-46-53	2.3	37° 50'	122° 13'	a	3 miles SE of Berkeley.
96	27	19-42-24	3.4	40.9°	122.2°	d	NE of Shasta.
91	28	01-32-42	3.8	36° 54'	121° 37'	c	Aftershock of Dec. 17 at 0513. IV at Gilroy and Hollister.
97	28	06-44-08	3.1	39.4°	122.7°	d	30 miles NE of Ukiah.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY-DECEMBER 1953
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Willits
Burney
Alturas
Susanville
Chico
Quincy
Gerlach
Williams
Marysville
Sacramento
Placerville
Stockton
Livermore
Sonora
Markleeville
Yerington
Lovelock
Fallon
Hawthorne
Austin
Monterey
Hollister
Merced
Yosemite
King City
San Simeon
Coalinga
Tulare
San Luis Obispo
Bishop
Tonopah
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
HC
GC
JAS
PRI
LLA
FRI
FRE
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1954

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	13-30-00	3.4	39.0°	123.2°	d	8 miles S of Ukiah. III at Ukiah.
	1	17-16-00	4.4	40° 24'	126° 34'	b	115 miles W of Ferndale.
2	2	13-21-52	2.0	37° 27'	121° 51'	c	6 miles NE of San Jose.
	3	09-48-33		43°	125°		Off coast of Oregon. Epicenter and origin time by USCGS.
	3	11-14-52		43°	125°		Off coast of Oregon. Epicenter and origin time by USCGS.
3	4	04-41-33	3.3	40.5°	119.5°	d	SW of Gerlach, Nevada.
3	4	11-44-40	3.9	40.5°	119.5°	d	SW of Gerlach, Nevada.
4	4	23-03-11	3.2	36° 07'	120° 37'	b	14 miles W of Coalinga.
5	5	00-23-23	3.0	35° 56'	120° 00'	c	SE of Coalinga.
6	6	22-45-30	1.8	37° 12'	122° 17'	c	NW of Santa Cruz.
7	7	07-46-11	3.7	40° 19'	124° 45'	b	30 miles SW of Ferndale.
7	7	08-04-06	3.0	40° 19'	124° 45'	c	Aftershock.
	7	21-39-47	3.5	42.5°	125.9°	d	Off coast of Oregon.
8[$]	11	20-17-44	3.2	36° 53'	121° 28'	c	Near Hollister.
Felt	11	23-34-00	-	37.4°	122.15°	d	II at Palo Alto.
9	15	03-27-43	3.4	38.4°	119.0°	d	N of Mono Lake.
10	15	22-02-18	2.6	36° 30'	121° 14'	c	N of King City.
11	16	10-12-11	2.2	38.1°	122.8°	d	NW of San Francisco. Foreshock at 09-53-57.
CIT	17	05-55-14	3.3	37.55°	118.55°	c	Mono Lake area.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
12	19	08-38-15	2.7	37° 25'	121° 42'	b	NW of Mt. Hamilton.
CIT	22	09-27-36	3.4	37.32°	118.0°	c	30 miles E of Bishop.
13[$]	22	09-32-17	2.6	36° 48'	121° 25'	c	S of Hollister.
14	23	11-21-55	2.7	36° 57'	121° 48'	c	11 miles E of Santa Cruz.
14	24	06-37-26	2.0	36.9°	121.7°	d	Aftershock.
15	24	19-06-45	3.1	35° 47'	121° 05'	c	30 miles S of King City.
16	25	16-45-26	2.9	39.3°	122.8°	d	NE of Ukiah.
17	25	23-11-19	1.7	37° 31'	121° 58'	c	N of San Jose.
18	29	07-36-56	2.8	38° 30'	122° 39'	c	NE of Santa Rosa.
19	29	22-41-27	1.6	37° 38'	122° 29'	b	S of San Francisco.
20	31	17-45-26	2.4	37° 51'	121° 53'	c	Foreshock.
20	31	17-49-34	2.1	37° 51'	121° 52'	c	Foreshock.
20	31	17-50-13	2.6	37° 51'	121° 52'	b	Foreshock.
20	31	23-58-20	2.8	37° 51'	121° 53'	b	NW of Livermore.
	Feb						
20	1	00-20-31	1.9	37° 52'	121° 55'	b	Aftershock.
21	1	04-58-54	2.6	36.8°	121.5°	d	6 miles SW of Hollister.
13	2	08-51-07	2.6	36° 48'	121° 25'	b	S of Hollister.
22	3	09-34-37	1.7	37° 17'	121° 38'	c	Near Mt. Hamilton.
23	4	00-55-12	3.2	40.4°	123.5°	d	NE of Garberville.
24	4	11-12-18	3.4	40° 32'	121° 30'	c	NE of Mineral.
25	4	19-08-14	3.3	37° 45'	122° 07'	a	10 miles SE of Berkeley. Felt over about 500 square miles of the San Francisco Bay region. Maximum intensity V at Hayward and Walnut Creek.
25	6	20-40-37	1.9	37° 47'	122° 08'	a	9 miles SE of Berkeley.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
25	8	15-23-45	3.5	37° 48'	122° 08'	a	8 miles SE of Berkeley. Felt in San Francisco Bay region from Martinez south to Hayward. Maximum intensity of IV at Alamo, Canyon, Oakland, and San Francisco.
26	10	05-40-04	2.5	37° 53'	121° 57'	b	17 miles E of Berkeley.
27	14	17-38-15	2.5	37° 48'	122° 04'	b	11 miles ESE of Berkeley. Felt by one person in El Cerrito.
25	16	09-02-02	2.0	37° 43'	122° 09'	b	10 miles SE of Berkeley.
28	17	02-34-29	2.9	36.6°	121.2°	d	W of Llanada.
21	17	03-00-34	2.2	36.8°	121.5°	d	SW of Hollister.
28	17	05-32-05	2.3	36.6°	121.2°	d	W of Llanada.
Felt	18	22-13-00	-	37.85°	118.6°	d	Benton (Quarantine Station) IV.
25	19	21-06-28	3.1	37° 46'	122° 08'	b	10 miles SE of Berkeley. V at Canyon and Moraga.
29	20	22-07-13	3.3	39.5°	120.0°	d	9 miles W of Reno, Nevada. Felt by a few residents of Reno.
30	26	13-31-49	2.8	39.3°	120.1°	d	Near Truckee.
30	26	15-40-16	2.7	39.3°	120.2°	d	Near Truckee.
	Mar						
31	2	12-09-26	3.6	40.4°	125.2°	d	50 miles WSW of Ferndale.
26	2	13-32-07	2.0	37° 52'	121° 58'	b	17 miles E of Berkeley.
32	3	13-08-50	1.8	36° 55'	121° 39'	c	Foreshock of Apr. 25 at 2033.
26	4	03-19-18	2.1	37° 52'	122° 00'	c	13 miles E of Berkeley.
33	4	05-00-47	3.2	38.7°	119.8°	d	Near Markleeville.
34	9	19-55-30	3.6	35.9°	120.5°	d	16 miles SSW of Coalinga.
CIT	13	22-43-30	3.4	35.0°	120.42°	d	West of Santa Maria
35	14	03-03-56	2.5	39.3°	119.6°	d	SE of Reno, Nevada.
36	14	19-08-20	1.9	37.0°	122.5°	d	W of Santa Cruz.

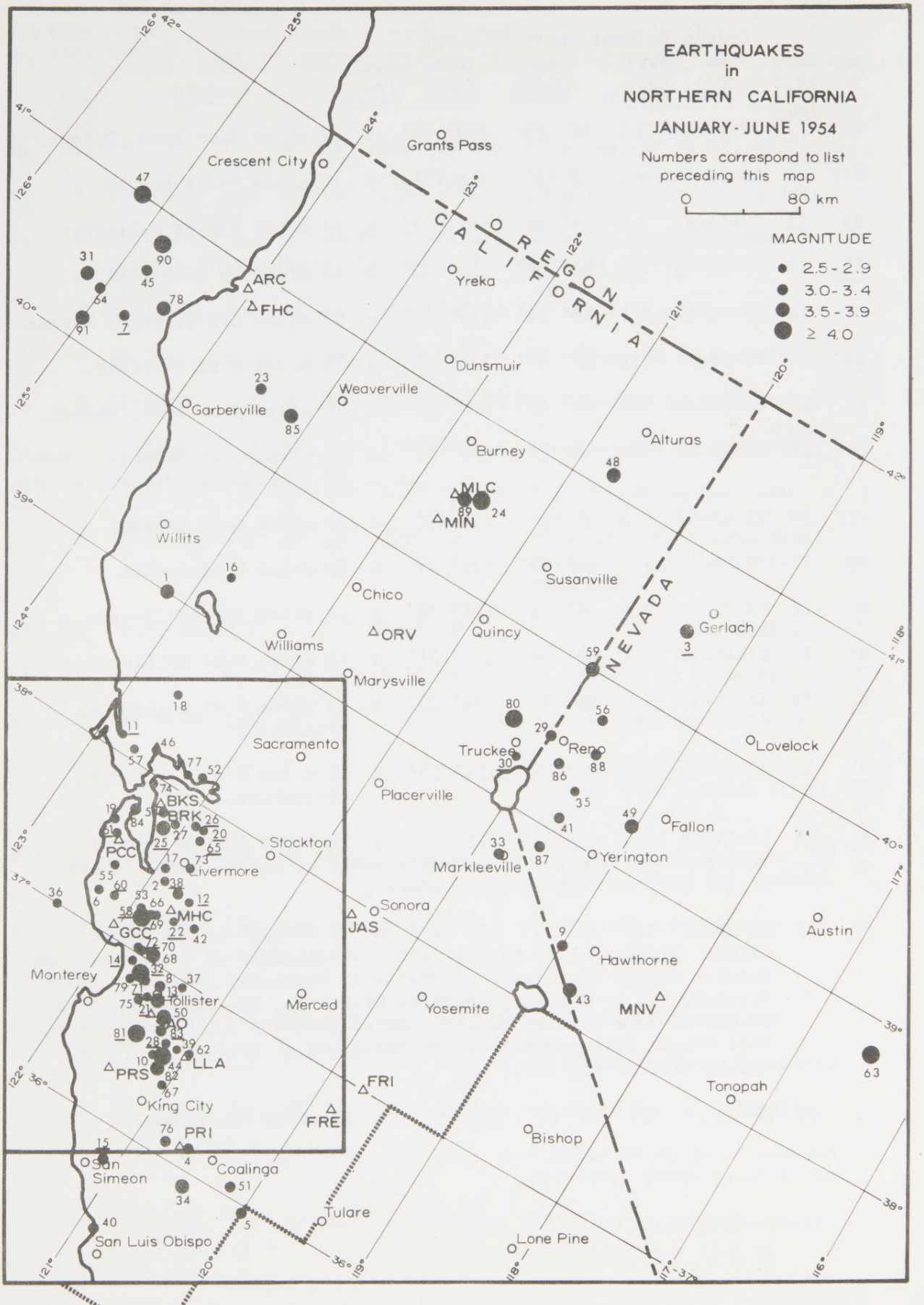
Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
37	15	10-44-46	2.6	36° 58'	121° 20'	c	NE of Hollister.
38	16	01-42-57	3.4	37° 27'	121° 47'	b	NE of San Jose.
38	16	03-31-05	2.6	37° 27°	121° 47'	c	Aftershock.
39	16	06-26-58	2.4	36.6°	121.1°	d	W of Llanada.
Felt	17	21-40-00	-	39.8°	120.15°	d	IV at Chilcoot.
40	18	12-07-53	3.0	35.4°	120.9°	d	NW of San Luis Obispo.
41	19	04-32-31	3.4	39.1°	119.6°	d	30 miles SSE of Reno, Nevada. III at Carson City.
13	21	15-59-29	3.6	36.8°	121.4°	d	Near Hollister.
22	22	00-43-29	1.9	37° 16'	121° 40'	c	Near Mt. Hamilton.
42	22	11-26-30	2.1	37° 18'	121° 30'	c	E of Mt. Hamilton.
38	23	09-23-31	2.3	37° 25'	121° 45'	c	NW of Mt. Hamilton.
43	25	00-59-33	3.9	38.2°	118.8°	d	SW of Hawthorne, Nevada.
44	27	15-43-31	4.4	36° 31'	121° 10'	c	15 miles WSW of Llanada. V at Pinnacles National Monument. IV at Greenfield, San Benito, and 7 miles S of Hollister.
45	27	16-49-07	3.2	40.6°	124.8°	d	30 miles W of Ferndale.
46	29	03-23-27	2.1	38° 08'	122° 33'	b	23 miles NW of Berkeley.
47	29	13-33-38	4.1	41.0°	125.2°	d	60 miles W of Arcata.
48	30	18-35-13	3.9	41.1°	120.7°	d	SW of Alturas.
49	30	23-41-33	3.7	39.3°	119.1°	d	SW of Fallon, Nevada.
	Apr						
50	1	00-36-24	3.5	36° 44'	121° 18'	b	10 miles SE of Hollister. V 7 miles S of Hollister.
51	1	12-04-38	3.3	36° 03'	120° 12'	c	6 miles SE of Coalinga.
52	2	00-38-52	1.5	38° 07'	122° 07'	c	19 miles NNE of Berkeley.
53	3	03-13-30	2.5	37° 14'	121° 57'	d	6 miles SSW of San Jose.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Apr						
54	3	21-13-18	2.7	37° 49'	122° 12'	b	5 miles SE of Berkeley. Felt.
30	7	07-05-02	4.3	39° 22'	120° 09'	b	NE of Truckee. Felt: IV at Reno, Nevada.
55	9	01-48-24	2.4	37° 22'	122° 18'	c	9 miles SW of Palo Alto.
15	9	07-38-23	3.1	35° 47'	121° 05'	d	10 miles NE of San Simeon.
56	9	09-52-25	3.0	39° 45'	119° 45'	c	14 miles NNE of Reno, Nevada.
Felt	9	14-50-00	-	35.9°	121.0°	d	IV at Bryson (Pleyto School). Second shock reported felt at 2340.
57	9	23-44-34	2.6	38° 04'	122° 42'	c	25 miles NW of Berkeley.
	10	15-03-58	4.7	40° 30'	126° 08'	b	Off Cape Mendocino, 100 miles W of Ferndale.
58	10	22-16-53	4.1	37° 11'	121° 48'	a	14 miles SW of Mt. Hamilton. IV at Morgan Hill, Mt. Hamilton and San Martin. III at Glenwood.
59	11	07-42-46	3.7	40° 00'	120° 00'	c	40 miles NNW of Reno, Nevada.
	11	13-17-47	4.0	40° 44'	126° 41'	c	139 miles W of Arcata.
60	12	22-53-01	2.0	37° 14'	122° 10'	d	13 miles S of Palo Alto.
61	13	01-06-40	1.2	37° 33'	122° 25'	c	16 miles S of San Francisco.
62	13	11-41-59	2.7	36° 36'	121° 00'	c	4 miles W of Llanada.
63	14	11-43-27	4.3	38° 45'	116° 30'	d	62 miles NE of Tonopah, Nevada.
25	16	19-03-20	1.0	37° 44'	122° 08'	c	11 miles SE of Berkeley.
64	17	07-22-43	3.1	40° 21'	125° 01'	c	43 miles WSW of Ferndale.
65	17	23-23-26	2.5	37° 48'	121° 50'	c	9 miles NNW of Livermore.
66	20	00-05-18	1.8	37° 13'	121° 52'	c	7 miles S of San Jose.
67	20	09-32-13	2.6	36° 23'	121° 02'	d	12 miles NE of King City.
68	21	02-36-43	3.8	37° 02'	121° 39'	b	21 miles S of Mt. Hamilton.
69	21	14-45-24	2.6	37° 15'	121° 48'	b	6 miles SE of San Jose.
32	22	18-44-10	3.8	36° 54'	121° 41'	b	15 miles WNW of Hollister. Foreshock of 18-50-13.

Map No.	Date 1954 Apr	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
32	22	18-50-13	4.3	36° 54'	121° 41'	b	15 miles WNW of Hollister. Felt over an area of approximately 2500 square miles of the coastal region of west-central California. Intensity: VI, slight damage at Aptos and Gilroy. V, Moss Landing, IV, Bolinas, Chualar, Glenwood, Hollister, San Francisco, San Juan Bautista, San Martin, Watsonville.
32	22	19-08-32	3.0	36° 54'	121° 41'	b	15 miles WNW of Hollister. Aftershock of 18-50-13.
60	23	23-46-33	2.0	37° 13'	122° 12'	c	12 miles S of Palo Alto.
32	25	20-33-28	5.3	36° 56'	121° 41'	b	16 miles WNW of Hollister. Strong shock. Felt over a land area of approximately 12,000 square miles. Maximum intensity of VIII occurred in a very small area about 10 miles E of Watsonville along the Chittenden Road on the S bank of the Pajaro River. VII Aromas, Freedom, Gilroy, Hollister, Watsonville. VI Aptos, Boulder Creek, Capitola, Castroville, Corralitos (Enos Ranch), Cupertino, Glenwood, Los Gatos, Madrone, Holy City, Morgan Hill, Moss Landing, Mt. Hermon.
32	25	21-25-25	3.5	36° 56'	121° 41'	c	16 miles WNW of Hollister. Aftershock of 20-33-28.
32	26	01-32-05	2.8	36° 56'	121° 41'	c	Ditto.
32	26	02-35-02	2.6	36° 56'	121° 41'	c	Ditto.
32	26	04-04-39	2.3	36° 56'	121° 41'	c	Ditto.
70	27	14-12-00	2.3	37° 01'	121° 44'	c	21 miles NW of Hollister.
71	27	19-35-33	2.8	36° 53'	121° 34'	b	9 miles WNW of Hollister.
32	28	04-53-07	3.0	36° 56'	121° 41'	c	16 miles WNW of Hollister. IV at Moss Landing; II at Salinas.
CIT	28	08-43-41	3.1	36.98	117.53	b	40 miles NE of Lone Pine.
72	29	10-36-34	2.2	37° 02'	121° 47'	d	22 miles SSW of Mt. Hamilton.
25	29	19-15-50	1.3	37° 43'	122° 07'	b	13 miles SE of Berkeley.
72	30	12-47-28	2.8	37° 02'	121° 47'	c	22 miles SSW of Mt. Hamilton. IV Watsonville.
73	30	13-30-24	2.1	37° 37'	121° 47'	c	Near Livermore.
32	30	18-26-57	2.5	36° 56'	121° 41'	c	16 miles WNW of Hollister.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
14	1	03-50-38	2.7	36° 58'	121° 49'	b	27 miles SSW of Mt. Hamilton.
11	3	23-30-50	1.8	38° 06'	122° 51'	d	24 miles SSW of Santa Rosa.
74	4	00-10-04.7	2.4	37° 56.2'	122° 24.4'	a	Blast at Blake Brothers Quarry, Castro Point, Richmond, 9.2 miles NW of Berkeley.
7	7	05-38-16	3.4	40° 20'	124° 44'	a	29 miles SW of Ferndale.
26	7	10-38-21	1.3	37° 49'	121° 57'	c	17 miles ESE of Berkeley.
75	8	21-49-50	2.6	36° 45'	121° 33'	d	10 miles SW of Hollister.
71	9	02-34-03	2.3	36° 53'	121° 36'	d	10 miles WNW of Hollister.
58	10	12-21-28	2.1	37° 12'	121° 51'	b	9 miles SSE of San Jose.
76	10	14-24-23	3.1	36° 05'	120° 48'	c	20 miles ESE of King City. Felt as slight shock at King City.
12	15	06-42-30	2.5	37° 27'	121° 38'	c	7 miles N of Mt. Hamilton.
77	24	19-59-45	1.5	38° 07'	122° 14'	d	16 miles N of Berkeley.
78	27	18-20-20	3.6	40° 28'	124° 30'	b	14 miles WSW of Ferndale.
79	28	11-54-54	2.9	36° 50'	121° 42'	b	15 miles W of Hollister. Felt at Moss Landing Steam Plant (P.G. & E.).
80	29	04-20-20	4.1	39° 28'	120° 20'	c	12 miles NW of Truckee. IV at Blue Canyon and Norden.
81	31	20-27-39	3.1	36° 35'	121° 25'	c	28 miles E of Monterey.
	June						
82	4	11-58-38	3.5	36° 27'	121° 08'	c	16 miles SW of Llanada.
61	4	19-13-48	1.1	37° 35'	122° 26'	c	14 miles S of San Francisco.
83	5	02-59-36	3.1	36° 40'	121° 17'	c	14 miles SSE of Hollister.
84	5	10-59-26	1.6	37° 45'	122° 24'	a	4 miles SW of San Francisco Station. Depth about 10 km.
85	6	14-55-00	3.8	40° 21'	123° 10'	a	29 miles NE of Garberville.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
86	June 7	03-04-21	3.2	39° 23'	119° 49'	d	11 miles S of Reno, Nevada.
CIT	7	10-57-22	3.6	37.53°	118.75°	c	20 miles NW of Bishop.
83	11	09-14-41	3.0	36° 40'	121° 17'	c	14 miles SSE of Hollister.
32	12	03-51-46	2.5	36° 56'	121° 38'	d	14 miles NW of Hollister.
87	14	08-51-52	3.2	38° 53'	119° 35'	c	46 miles SSE of Reno, Nevada.
65	16	00-22-11	2.0	37° 49'	121° 52'	d	22 miles E of Berkeley.
88	16	03-02-33	3.4	39° 32'	119° 37'	d	11 miles E of Reno, Nevada.
89	16	16-03-26	3.6	40° 29'	121° 36'	c	10 miles N of Mineral. Felt at Mineral and Manzanita Lake.
CIT	19	12-45-47	3.3	37.67°	118.33°	c	20 miles N of Bishop.
90	22	06-24-49	4.2	40° 46'	124° 47'	b	38 miles W of Arcata.
81	22	09-33-03	3.9	36° 34'	121° 25'	a	18 miles S of Hollister.
81	22	11-49-29	4.4	36° 34'	121° 25'	a	18 miles S of Hollister.
81	22	11-51-17	3.8	36° 34'	121° 25'	a	18 miles S of Hollister. Aftershock.
81	22	12-50-04	4.3	36° 34'	121° 25'	a	18 miles S of Hollister. Aftershock.
81	22	14-23-19	3.3	36° 34'	121° 25'	a	18 miles S of Hollister. (Two shocks. Magnitudes probably refer to second larger shock. Origin time is that of first shock.)
81	22	17-08-00	3.6	36° 34'	121° 25'	a	18 miles S of Hollister. USCGS: 1149 and 1250 shocks felt approximately as follows: V at Chualar Canyon (9 miles E of Chualar), Gonzales, Hollister, Soledad. IV at Big Sur, Monterey Peninsula, Mt. Hermon, Salinas. 15 shocks were felt at Chualar Canyon (between 2 a.m. and 7 a.m.). Five shocks felt on Monterey Peninsula and at Gonzales. Three shocks felt at Big Sur.
91	24	06-15-25	3.6	40° 08'	125° 00'	d	72 miles SW of Arcata.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY - JUNE 1954
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Placerville
Truckee
Reno
Lovelock
Stockton
Fallon
Markleeville
Yerington
Sonora
Hawthorne
Austin
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
Livermore
MHC
GCC
LLO
PRS
LLA
FRI
FRE
PRI
JAS
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1954

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	1	14-39-48	2.0	40.8°	124.5°	c	22 miles West of Arcata.
2	2	10-43-13	4.9	38° 10'	116° 22'	b	45 miles E of Tonopah, Nevada.
3	2	21-01-46	3.8	40° 45'	124° 59'	d	40 miles W of Ferndale.
	4	02-44-22	4	38°	115.5°	d	E of Tonopah, Nevada.
4	5	07-25-39	3.2	36.2°	121.8°	d	30 miles S of Monterey.
5	5	19-18-52	3.6	40° 26'	124° 16'	c	10 miles S of Ferndale. Felt slightly in Eureka and Ferndale.
CIT	6	10-09-36	3.0	39.50°	118.83°	-	Near Fallon, Nevada.
6	6	11-13-20	6.8	39° 25'	118° 32'	a	Near Fallon, Nevada. Felt over an area of approximately 130,000 square miles of Nevada, California, Oregon and Utah. Maximum intensity of IX assigned to the ground fracture area on the E edge of Rainbow Mtn. in the Stillwater Range about 15 miles SE of Fallon. VIII at Fallon, Stillwater, and Salt Wells, Nevada. A list of the larger aftershocks appears at the end of this listing.
7	6	22-07-41	6.0	39.3°	118.5°	a	Near #6 above. Felt at Fallon.
8	8	06-39-12	3.1	36° 32'	121° 29'	b	30 miles S of Hollister.
9	10	15-07-35	1.7	37° 25'	121° 42'	c	6 miles NW of Mt. Hamilton.
10	11	03-25-24	4.0	40° 22'	125° 16'	b	55 miles SW of Ferndale.
11	17	18-55-12	4.2	41° 18'	123° 34'	b	38 miles NE of Arcata. V at Cecilville.
2	17	22-02-42	4.3	38.2°	116.4°	b	45 miles E of Tonopah, Nevada.
CIT	20	00-11-38	5.0	38.2°	116.4°	d	45 miles E of Tonopah, Nevada.
12	29	07-09-42	2.7	37° 54'	121° 59'	a	15 miles E of Berkeley. Felt in Walnut Creek.
13	29	08-51-36	4.2	37° 25'	121° 20'	b	17 miles ENE of Mt. Hamilton. Felt at Hollister, Gilroy, Morgan Hill, San Jose, and San Francisco Peninsula.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Aug						
14	10	01-38-01	2.3	36° 50'	121° 29'	d	8 miles SW of Hollister.
15	10	13-24-42	3.1	37° 57'	121° 59'	b	18 miles NE of Berkeley. Felt in Walnut Creek and Concord.
16	12	12-50-06	3.9	36° 54'	121° 39'	b	18 miles NW of Hollister. VI at Logan. V at Hollister. Also felt Moss Landing, Bakersfield, and Pescadero.
CIT	17	19-33-06	3.8	38.2°	116.4°	d	E of Tonopah, Nevada.
17	19	21-46-32	3.2	39° 27'	123° 29'	c	6 miles NW of Willits. III at Comptche.
18	20	08-00-45	4.4	37° 40'	118° 40'	c	20 miles NW of Bishop. V at Long Valley Reservoir. IV at Benton.
CIT	20	11-06-27	3.6	37.67°	118.67°	c	20 miles NW of Bishop.
19	21	04-55-06	2.1	37° 57'	122° 19'	c	6 miles NW of Berkeley. Felt in El Cerrito, Berkeley, Richmond, Oakland.
20	21	22-50-49	3.3	36° 28'	121° 20'	b	40 miles S of Hollister.
21	22	13-37-22	3.3	38.6°	119.4°	d	E of Markleeville. III at Markleeville. Foreshock reported felt at 1130 at Markleeville.
22	24	05-51-32	6.8	39° 35'	118° 27'	a	Near Fallon, Nevada. Felt over an area of approximately 150,000 square miles of Nevada, California, Oregon, Idaho, and Utah. Maximum intensity of IX assigned to the ground fracture area about 15 miles E of Fallon. VIII at Fallon, Lovelock, Stillwater, and Upsal Hogback. A list of the larger aftershocks appears at the end of this listing.
16	26	09-25-30	2.7	36° 53'	121° 38'	b	15 miles NW of Hollister.
16	26	09-28-49	2.7	36° 53'	121° 38'	b	15 miles NW of Hollister.
23	28	19-40-50	1.7	38° 02'	122° 31'	b	18 miles NW of Berkeley.
	Sep						
24	4	18-33-40	3.1	37° 46'	121° 57'	b	20 miles SE of Berkeley.
25	16	04-51-04	2.5	37° 18'	120° 01'	b	25 miles E of Merced. VI at Coarsegold (Madera County).

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Sep 22	06-58-43	3.5	40.1°	125.8°	c	110 miles SW of Arcata.
18	22	07-01-55	4.1	37° 40'	118° 40'	c	20 miles NW of Bishop.
26	22	21-53-08	3.5	37° 29'	118° 57'	c	30 miles NW of Bishop.
27	25	15-51-55	2.8	37° 26'	121° 45'	a	8 miles NW of Mt. Hamilton.
	Oct						
28	7	00-00-49	2.8	38° 09'	121° 48'	b	30 miles NE of Berkeley.
29	13	18-29-05	1.7	37° 40'	122° 24'	c	10 miles SE of San Francisco.
30	14	08-42-03	2.3	37° 25'	121° 43'	a	7 miles NW of Mt. Hamilton.
CIT	16	04-32-12	4.3	39.5°	118.5°	d	E of Fallon, Nevada.
31	17	00-52-43	1.0	37° 50'	122° 08'	c	IV at Canyon. Very small, probably a blast.
29	18	17-13-14	1.8	37° 41'	122° 24'	b	7 miles SE of San Francisco.
CIT	20	19-53-52	4.4	39.0°	119.0°	d	E of Fallon, Nevada.
32	21	03-14-55	2.5	40.4°	124.3°	d	S of Ferndale.
33	22	09-11-55	3.2	40° 14'	121° 06'	c	29 miles E of Mineral.
34	25	18-33-24	2.9	37° 57'	121° 48'	a	25 miles NE of Berkeley.
35	27	02-25-42	3.1	38° 02'	121° 50'	a	25 miles NE of Berkeley. Felt at Contra Costa substation.
	Nov						
36	1	06-42-40	4.0	37° 04'	120° 35'	c	15 miles S of Merced. V at El Nido and Le Grand. IV at Fresno, O'Neals, El Portal.
37	3	18-50-07	3.6	40° 29'	125° 28'	b	80 miles SW of Arcata.
38	4	14-44-48	2.1	37° 18'	121° 44'	a	6 miles SW of Mt. Hamilton.
39	6	18-25-59	2.1	38° 03'	122° 23'	a	14 miles NW of Berkeley.
40	10	18-07-21	4.4	39° 04'	123° 02'	b	10 miles SE of Ukiah. Felt over 2500 square miles of Lake and Mendocino counties in northern California. Maximum intensity VI at Hopland, Willits.

Map No.	Date 1954	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Nov						
41	11	16-25-08	2.8	36.7°	121.1°	d	10 miles NW of Llanada.
24	14	10-54-33	1.8	37° 44'	121° 55'	a	20 miles SE of Berkeley.
Felt	15	00-20-00	-	37.65°	118.0°	d	IV at Dyer, Nevada.
42	17	07-23-57	4.1	36° 28'	118° 00'	c	S of Lone Pine. V at Keeler. VI at Coso Jct.
43	17	09-50-35	2.8	36° 59'	121° 19'	b	12 miles NE of Hollister.
44	19	05-53-51	3.5	40.5°	124.1°	d	SE of Ferndale. Near Scotia, IV at Eureka.
45	22	05-19-23	2.7	36.9°	121.2°	d	12 miles E of Hollister.
46	25	11-06-15	3.8	40.7°	121.3°	c	35 miles NE of Mineral.
47	25	11-16-35	6.1	40° 16'	125° 38'	b	75 miles WSW of Ferndale. Felt over an area of 9000 square miles of Mendocino and Humboldt counties. Maximum intensity V at Bridgeville, Eureka, Ferndale, Scotia.
48	26	10-38-35	3.3	37.3°	118.9°	b	W of Bishop.
	Dec						
49	1	06-30-41	2.7	36° 43'	121° 29'	c	SSW of Hollister. V at Hollister.
50	7	04-32-36	4.6	40.5°	126°	d	W of Eureka and perhaps an aftershock of Nov. 25.
29	8	18-46-24	1.5	37° 40'	122° 23'	b	S of San Francisco. Possibly a blast.
51	10	00-30-49	3.0	37° 18'	121° 15'	a	21 miles SE of Mt. Hamilton.
52	10	17-13-00	3.3	40° 33'	121° 22'	b	13 miles NE of Mineral.
53	12	14-04-34	2.3	37° 00'	121° 45'	a	25 miles SW of Mt. Hamilton.
54	13	02-16-11	1.9	37° 46'	122° 32'	a	NW of San Francisco.
55	13	10-49-26	3.6	39° 17'	120° 10'	b	Near Truckee. V at Norden.
56	14	17-17-19	3.7	39.9°	124.1°	c	W of Garberville.
57	14	18-46-36	2.8	40.3°	124.5°	c	W of Ferndale.

Map No.	Date 1954 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
CIT	15	06-30-40	4.0	39.5°	118°	d	E of Fallon, Nevada.
58	16	11-07-13	7.2	39° 19'	118° 12'	a	Major Nevada earthquake. Epicenter near Frenchman's Station, about 30 miles ESE of Fallon. Felt over an area of approximately 200,000 square miles. Maximum intensity X assigned to surface rupture in Dixie Valley-Fairview Peak area. A list of the larger aftershocks appears at the end of this listing.
58	16	11-11-28	7.1	39.5°	118.0°	d	Epicenter probably about 30 miles N of 1107. Felt over large area including Sacramento and Battle Mtn., Nevada.
58	16	13-15-03	5.0	39° 19'	118° 12'	b	Aftershock of 1107.
58	16	14-16-57	5.8	39.5°	118°	b	Aftershock of 1107.
58	16	15-09-42	5.1	39.5°	118°	b	Aftershock of 1107.
59	17	07-08-58	4.5	37° 43'	122° 08'	b	12 miles SE of Berkeley. Felt over an area of 4500 square miles. Maximum intensity V in central area. VI at Castro Valley, Hayward, Oakland, and San Leandro.
60	17	15-22-31	2.6	36° 44'	121° 20'	c	SE of Hollister. IV at Hollister.
61	19	19-26-35	3.2	38.3°	119.3°	d	California-Nevada border, S of Reno.
62[$]	21	19-56-29	6.5	40° 47'	123° 52'	b	East of Eureka and Arcata. Felt over 50,000 square miles of northern California and Oregon. Maximum intensity VII at Arcata, Eureka, Ferndale.
62[$]	22	18-33-02	3.5	40° 47'	123° 52'	c	Aftershock of #62. IV at Arcata.
63	22	21-12-24	3.7	36.0°	121.0°	d	SE of King City. III at King City.
64	23	19-04-59	3.4	36° 47'	121° 26'	c	S of Hollister. IV at Hollister.
65	24	09-10-11	3.5	40° 44'	124° 04'	c	Aftershock of #62. V at Eureka.
66	29	10-49-32	3.3	38° 59'	119° 54'	c	20 miles N of Markleeville. II at Markleeville.
62	30	09-16-13	4.7	40° 47'	123° 52'	b	9 miles SE of Arcata. VI at Arcata, Eureka, Ferndale.
67	31	16-56-53	4.0	37.6°	118.5°	d	Northern Owens Valley. IV at Bishop.

NEVADA EARTHQUAKE SERIES 1954

Following the two strong earthquakes in the vicinity of Fallon, Nevada on July 6 and August 24 and the Dixie Valley-Fairview Peak earthquake of December 16, there were many aftershocks, of which the following is a partial list. These are the earthquakes partially identified as originating in this particular region of Nevada. The origin time is obtained by subtracting a constant time from the arrival time of P at Reno. All are assumed to have the same epicenter as the associated major earthquake although some spread of epicenters would seem likely. The arbitrary lower limit of magnitude included in this list is approximately 4, so the current list cannot be considered a complete record of the aftershocks of the Nevada earthquake series.

Coordinates of Epicenter of the Major Earthquakes

Date	Latitude	Longitude	Magnitude
July 6	39° 25' N	118° 32' W	6.8
Aug. 24	39° 35' N	118° 27' W	6.8
Dec. 16	39° 19' N	118° 12' W	7.2

Aftershock Series

Date 1954	Origin Time (G.C.T.)	M	Date 1954	Origin Time (G.C.T.)	M
July 6	11-13-20	6.8	July 6	22-07-41	6.0
6	11-26-55	4.8	6	22-53-00	4.1
6	11-41-00	4.5	6	23-11-18	4.1
6	11-49-00	5.7	6	23-57-07	4.1
6	12-53-59	4.5	7	00-22-58	4.4
6	12-56-30	4.9	7	01-29-51	4.1
6	13-15-11	5.2	7	02-13-56	4.1
6	13-36-01	4.5	7	02-22-45	4.1
6	14-55-15	4.5	7	04-33-53	4.1
6	15-51-21	4.4	7	06-11-08	4.6
6	17-38-25	4.2	7	10-31-32	4.1
6	17-57-37	4.1	7	10-52-48	4.4
6	17-57-40	4.3	7	12-40-53	4.2
6	18-42-03	4.2	7	16-02-24	4.2

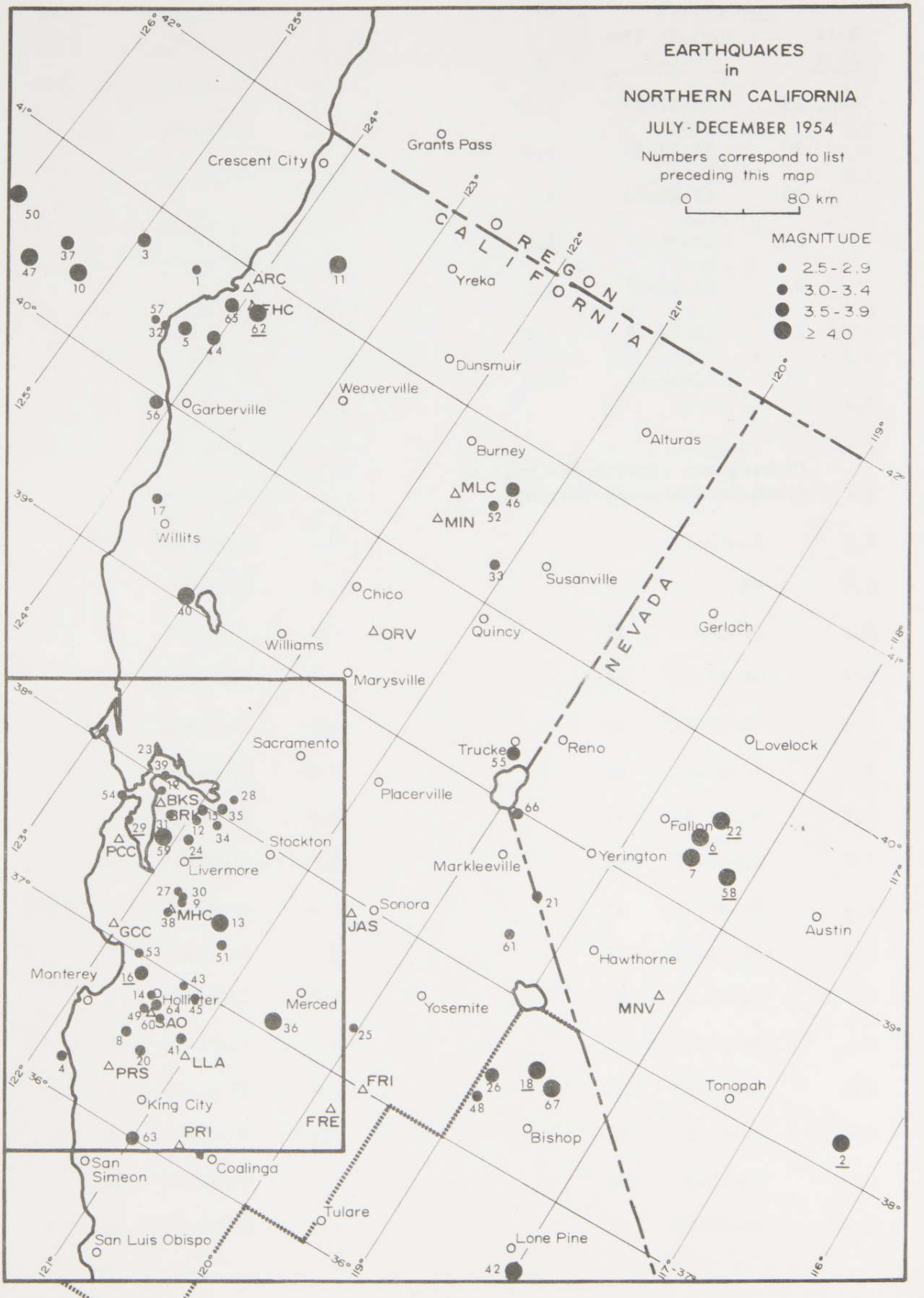
Date 1954	Origin Time (G.C.T.)	M
July 7	18-00-55	4.3
7	21-47-47	4.1
7	23-50-45	4.3
8	02-13-55	4.8
8	04-08-19	4.5
8	06-58-36	4.3
8	12-55-10	4.7
8	19-31-57	5.3
9	08-50-03	4.9
10	01-22-20	4.6
11	00-18-02	4.0
11	07-04-00	4.6
11	09-58-12	4.6
12	10-17-06	4.5
12	16-05-25	4.6
14	01-57-12	3.9
15	01-31-34	3.9
16	11-55-20	4.0
17	00-02-16	4.2
17	01-53-11	4.4
20	01-41-55	4.1
20	12-13-22	3.9
20	15-28-12	4.1
20	17-56-04	4.0
23	06-33-35	3.9
23	20-41-58	3.6

Date 1954	Origin Time (G.C.T.)	M
July 26	13-16-28	3.9
28	03-56-38	3.6
28	03-58-03	3.7
28	23-17-16	4.0
30	02-00-10	5.1
31	13-54-35	4.3
31	17-24-14	4.5
31	17-31-16	4.3
Aug. 2	10-18-53	5.4
3	21-24-54	4.7
5	05-03-08	4.7
6	15-41-16	4.2
9	14-28-34	4.0
10	06-23-10	4.0
10	23-00-41	4.0
10	23-04-22	4.0
16	06-29-42	4.1
22	10-50-08	4.0
24	05-51-32	6.8
24	05-57-46	5.2
24	06-14-50	4.1
24	06-32-31	4.4
24	06-36-02	4.4
24	06-54-10	4.3
24	14-47-18	4.0
24	21-20-53	4.4

Date 1954	Origin Time (G.C.T.)	M
Aug. 25	02-17-13	4.8
25	02-49-59	4.0
25	12-12-35	4.0
25	22-21-10	4.7
26	12-44-15	4.2
26	12-56-15	4.6
27	07-05-03	4.0
28	04-51-34	4.0
29	03-09-51	4.2
29	03-41-06	4.7
29	03-58-05	4.8
30	11-15-58	4.1
30	19-11-57	4.1
30	19-57-19	4.1
31	13-29-02	3.9
31	13-34-07	4.0
31	22-19-29	4.4
31	22-20-32	5.8
Sept. 1	05-18-46	5.5
1	11-29-25	4.3
2	07-53-17	3.9
4	04-24-22	4.0
5	20-15-59	4.4
8	07-17-30	4.3
9	09-21-05	4.7
9	22-31-38	4.4
Sept. 14	16-19-02	4.0
23	08-12-19	3.8
Oct. 2	22-15-34	3.8
16	04-32-12	4.3
20	19-53-52	4.4
26	18-29-56	3.8
Nov. 12	19-12-22	4.2
13	22-06-25	4.2
15	09-56-07	3.8
Dec. 13	03-43-18	3.9
16	11-07-13	7.2
16	11-11-29	7.1
16	11-50-36	5.0
16	11-57-30	5.0
16	13-15-03	5.0
16	14-16-57	5.8
16	14-24-10	5.3
16	15-09-42	5.1
16	21-48-43	4.5
17	10-15-26	4.5
17	10-33-29	4.7
17	20-27-06	5.0
18	01-45-36	4.7
18	22-23-05	4.0
19	02-02-17	4.0
19	03-59-56	4.2

Date 1954	Origin Time (G.C.T.	M
Dec. 19	05-01-27	4.0
20	02-27-33	4.0
20	15-48-54	4.2
20	17-36-47	5.0
22	07-14-12	4.1
22	10-39-18	4.2
26	22-06-45	4.1

(Subsequent aftershocks will be found in following listings.)


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1954
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Placerville
Truckee
Reno
Lovelock
Stockton
Livermore
Markleeville
Yerington
Fallon
Sonora
Hawthorne
Austin
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRI
PCC
MHC
GCC
JAS
SAO
LLA
PRS
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1955

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	12-13-54	5.1	39°	118°	-	Fairview Peak, Nevada.
2	2	02-49-21	4.0	40° 57'	124° 00'	c	NE of Arcata. IV at Blue Lake and Eureka.
3	2	07-14-36	3.0	41° 11'	124° 11'	c	N of Arcata. Felt.
1	2	21-43-36	3.7	39°	118°	-	Fairview Peak, Nevada.
1	2	22-07-00	4.2	39°	118°	-	Fairview Peak, Nevada.
1	5	08-20-40	4.2	39°	118°	-	Fairview Peak, Nevada.
4	6	01-03-12	1.2	37° 40'	122° 23'	a	S of San Francisco. Blast? One of a series of explosions in San Francisco Bay. Special report is included with January-June 1956.
1	6	08-32-32	3.7	39°	118°	-	Fairview Peak, Nevada.
1	7	04-56-10	3.9	39°	118°	-	Fairview Peak, Nevada.
1	7	07-41-14	4.1	39°	118°	-	Fairview Peak, Nevada.
1	7	08-00-41	4.2	39°	118°	-	Fairview Peak, Nevada.
5	7	19-52-20	1.8	38° 04'	122° 28'	a	18 miles NW of Berkeley.
1	8	08-43-17	3.6	39°	118°	-	Fairview Peak, Nevada.
6	8	11-45-34	3.0	40.9°	124.4°	d	W of Arcata.
1	8	18-09-50	4.0	39°	118°	-	Fairview Peak, Nevada.
1	8	22-32-53	4.2	39°	118°	-	Fairview Peak, Nevada.
7	9	06-57-48	2.8	36° 45'	121° 45'	a	19 miles SW of Hollister.
1	9	09-10-50	5.0	39°	118°	-	Fairview Peak, Nevada.
1	9	11-58-40	4.2	39°	118°	c	Fairview Peak, Nevada.
6	10	06-47-48	2.6	40.9°	124.4°	d	W of Arcata.

Map No.	Date 1955 Jan	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
Felt	10	10-44-00	-	37.75°	119.6°	d	IV reported felt Yosemite Valley.
8	10	11-23-05	2.6	37° 58'	122° 17'	b	N of Berkeley. Felt at Orinda, Albany, Richmond IV.
9	10	13-15-54	4.1	39.9°	118.4°	d	SE of Lovelock, Nevada. VI at Battle Mountain.
10	11	02-15-18	3.0	38° 02'	121° 48'	b	25 miles NE of Berkeley. Felt at Niles.
1	11	10-21-40	4.7	39°	118°	-	Fairview Peak, Nevada.
4	12	01-15-17	1.8	37° 40'	122° 25'	b	S of San Francisco. Blast?
1	12	03-21-25	4.0	39°	118°	-	Fairview Peak, Nevada.
1	12	11-00-09	3.7	39°	118°	-	Fairview Peak, Nevada.
1	12	11-57-37	4.1	39°	118°	-	Fairview Peak, Nevada.
11	12	15-45-08	3.3	41.1°	123.9°	d	NE of Arcata.
12	13	01-30-30	2.1	37° 08'	121° 37'	c	S of Mt. Hamilton.
1	14	00-45-50	3.9	39°	118°	-	Fairview Peak, Nevada.
1	14	02-57-04	3.9	39°	118°	-	Fairview Peak, Nevada.
1	14	12-21-11	3.8	39°	118°	-	Fairview Peak, Nevada.
13	15	08-17-59	3.9	38.4°	118.9°	b	SE of Reno, Nevada.
1	15	20-47-02	4.2	39°	118°	-	Fairview Peak, Nevada.
Felt	18	13-30-00	-	36.2°	121.85°	d	IV reported felt at Big Sur.
1	19	01-48-54	3.9	39°	118°	-	Fairview Peak, Nevada.
1	19	01-53-48	4.1	39°	118°	-	Fairview Peak, Nevada.
1	19	02-10-10	4.6	39° 21'	118° 15'	c	Fairview Peak, Nevada. IV at Gabbs, Nevada.
1	19	03-29-21	4.4	39°	118°	-	Fairview Peak, Nevada.
4	21	03-05-18	1.2	37° 41'	122° 22'	b	S of San Francisco. Blast?

Map No.	Date 1955 Jan	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
14	21	05-26-23	2.7	36.8°	121.3°	c	10 miles SE of Hollister.
15$	21	11-57-44	3.8	37° 09'	118° 20'	b	Near Big Pine (Pasadena location). IV at Tinemaha Reservoir.
16$	21	12-21-02	4.0	36° 49'	118° 01'	c	Near Big Pine (Pasadena location). IV at Tinemaha.
17	21	19-56-26	2.6	36.6°	121.4°	c	S of Hollister.
1	21	23-23-36	3.8	39°	118°	-	Fairview Peak, Nevada.
1	22	19-34-19	4.1	39°	118°	c	Fairview Peak, Nevada.
Felt	23	05-28-00	-	36.8°	121.4°	d	Felt Hollister.
1	23	13-21-55	3.9	39°	118°	-	Fairview Peak, Nevada.
1	23	15-37-32	3.9	39°	118°	-	Fairview Peak, Nevada.
4	24	21-04-37	1.6	37° 41'	122° 24'	b	S of San Francisco. Blast?
1	25	04-48-34	3.8	39°	118°	-	Fairview Peak, Nevada.
1	25	23-26-46	4.7	39°	118°	-	Fairview Peak, Nevada.
1	26	09-40-21	4.1	39°	118°	-	Fairview Peak, Nevada.
18	26	16-41-37	3.1	37° 14'	121° 30'	a	S of Mt. Hamilton. 10 km depth.
12	26	17-22-41	3.7	37° 11'	121° 36'	a	SW of Mt. Hamilton. 10 km depth.
18	27	03-38-54	2.3	37° 11'	121° 31'	a	S of Mt. Hamilton. 10 km depth.
1	27	09-04-22	3.8	39.1°	118° 04'	c	Fairview Peak, Nevada. V at Gabbs.
19	27	14-28-28	1.9	37° 58'	121° 59'	a	NE of Berkeley.
1	28	15-38-05	4.2	39.8°	118.0°	c	Fairview Peak, Nevada.
Felt	30	19-20-00	-	41.1°	124.0°	d	IV reported felt Eureka.
20$	31	10-34-38	2.3	37° 17'	121° 46'	b	SW of Mt. Hamilton.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
Felt	1	05-02-00	-	41.1°	124.0°	d	15 miles from Arcata. IV at Eureka. Felt.
Felt	1	06-35-00	-	39.0°	118.0°	d	Nevada aftershock. IV Frenchman's Station, Nevada. Felt.
4	3	00-58-18	1.3	37° 40'	122° 23'	a	S of San Francisco. Blast?
1	3	18-30-31	3.8	39° 12'	118° 32'	b	Fallon, Nevada.
19	4	13-23-29	3.2	37° 58'	122° 01'	a	15 miles NE of Berkeley. IV at Canyon.
19	4	13-45-10	2.4	37° 58'	122° 01'	b	Aftershock of preceding.
19	4	19-55-02	3.2	37° 58'	122° 01'	a	15 miles NE of Berkeley. Felt in Diamond Dist. of Oakland.
21	5	07-10-19	3.3	35.6°	121.4°	c	W of San Simeon.
22	5	15-32-58	2.5	37° 25'	122° 17'	a	W of Palo Alto. Blast?
1	7	02-30-43	3.6	39° 03'	118° 03'	c	Fairview Peak, Nevada.
23	7	13-49-00	4.3	40° 17'	124° 32'	b	25 miles SW of Ferndale. IV nine miles N of Garberville. Off Punta Gorda.
4	7	23-04-39	1.1	37° 41'	122° 22'	a	S of San Francisco. Blast?
1	9	11-11-22	3.7	39° 06'	118° 08'	b	Fairview Peak, Nevada.
1	10	19-44-08	3.7	39° 02'	118° 11'	b	Fairview Peak, Nevada.
1	11	16-12-32	4.7	39° 28'	118° 06'	b	Fairview Peak, Nevada.
CIT	12	11-29-00	4.6	39.0°	118.0°	-	Nevada aftershock.
23	12	23-50-41	3.4	40° 16'	124° 40'	b	W of Arcata.
24	13	00-23-03	4.1	36° 58'	118° 14'	b	S of Tinemaha (Pasadena epicenter).
1	14	09-40-24	3.7	38° 54'	118° 11'	b	Fairview Peak, Nevada.

Map No.	Date 1955 Feb	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
25	14	14-23-06	2.9	37° 28'	121° 56'	c	NW of Mt. Hamilton. Felt in parts of San Francisco Bay area and the Santa Clara Valley.
4	14	18-32-08	1.2	37° 41'	122° 23'	a	S of San Francisco. Blast?
26	14	20-24-05	2.0	37° 43'	122° 32'	b	W of San Francisco.
1	16	00-46-40	4.1	39° 07'	118° 02'	b	Fairview Peak, Nevada.
27	16	17-24-38	3.2	36° 32'	121° 22'	b	SE of Hollister.
1	17	01-36-20	3.8	39° 10'	118° 01'	b	Fairview Peak, Nevada.
4	18	21-22-38	1.4	37° 40'	122° 23'	b	S of San Francisco. Blast?
28	19	06-11-33	3.6	39° 28'	120° 16'	c	NW of Truckee. II at Norden and Donner Summit.
1	19	23-49-20	4.1	39.3°	117.8°	c	Fairview Peak, Nevada.
1	19	23-50-07	4.8	39.3°	117.8°	c	Fairview Peak, Nevada.
1	20	19-31-59	3.8	39° 02'	118° 02'	b	Fairview Peak, Nevada.
4	21	18-37-27	1.4	37° 40'	122° 22'	a	S of San Francisco. Blast?
1	22	05-40-17	3.8	39° 03'	118° 10'	c	Fairview Peak, Nevada.
1	23	14-11-16	3.6	39.7°	118.1°	d	Fairview Peak, Nevada.
29	24	19-36-15	2.7	38° 24'	122° 07'	c	49 miles N of Berkeley.
30	24	20-06-28	1.4	37° 58'	122° 35'	a	NW of Berkeley.
8	24	23-45-39	2.3	37° 58'	122° 16'	b	N of Berkeley. Felt in Albany.
31	25	00-50-05	2.8	38.4°	122.6°	c	E of Santa Rosa.
29	25	01-44-27	3.3	38° 25'	122° 08'	a	E of Santa Rosa.
32	25	12-56-20	2.5	37.0°	121.9°	c	NE of Santa Cruz.
33	27	03-17-51	2.9	36° 15'	120° 50'	c	E of King City. IV at Priest Valley.
4	28	20-48-04	1.4	37° 41'	122° 22'	a	S of San Francisco. Blast?

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Mar						
34	2	06-04-43	3.7	36° 52'	121° 39'	b	W of Hollister. V at Gilroy.
35	2	15-59-01	4.8	36° 00'	120° 56'	b	18 miles SE of King City. Felt over an area of 7000 square miles of west-central California. VI at Adelaida, Bryson, Indian Valley, San Ardo, San Lucas, Templeton.
35	2	20-02-53	3.7	36° 00'	120° 56'	b	Aftershock of preceding.
4	2	23-34-53	1.8	37° 41'	122° 23'	b	S of San Francisco. Blast?
4	3	23-17-12	1.3	37° 41'	122° 23'	a	S of San Francisco. Blast?
2	5	08-05-27	3.1	41.0°	124.0°	d	N of Arcata. Felt in Humboldt Bay area.
36	5	08-46-36	2.0	36.1°	121.1°	d	S of King City.
37	5	23-58-27	2.4	38° 00'	122° 29'	b	NW of Berkeley.
38	6	10-47-32	3.2	35° 55'	120° 54'	d	SE of King City.
18	7	13-20-51	2.6	37° 15'	121° 34'	c	SE of Mt. Hamilton.
4	7	23-01-50	1.2	37° 41'	122° 23'	b	S of San Francisco. Blast?
39	7	23-53-05	3.5	40° 39'	124° 15'	b	SW of Arcata.
1	8	20-05-17	4.5	39° 12'	118° 33'	c	Fallon, Nevada.
1	8	23-28-04	4.2	39° 39'	118° 00'	b	Fairview Peak, Nevada.
40	10	05-09-23	3.6	38° 33'	119° 45'	b	SW of Markleeville.
41	10	10-50-12	3.6	40° 36'	125° 12'	b	W of Arcata.
4	10	23-14-18	1.4	37° 40'	122° 22'	b	S of San Francisco. Blast?
1	11	14-22-35 14-23-16	-) 4.5)	39.3°	118.1°	d	Fairview Peak, Nevada.
42	11	17-26-42	3.5	41.0°	125.5°	d	W of Arcata.
8	11	18-26-45	2.5	37° 59'	122° 18'	b	N of Berkeley.
4	11	23-03-18	1.1	37° 40'	122° 24'	b	S of San Francisco. Blast?
1	13	08-41-04	4.6	39° 34'	118° 03'	b	Fairview Peak, Nevada.

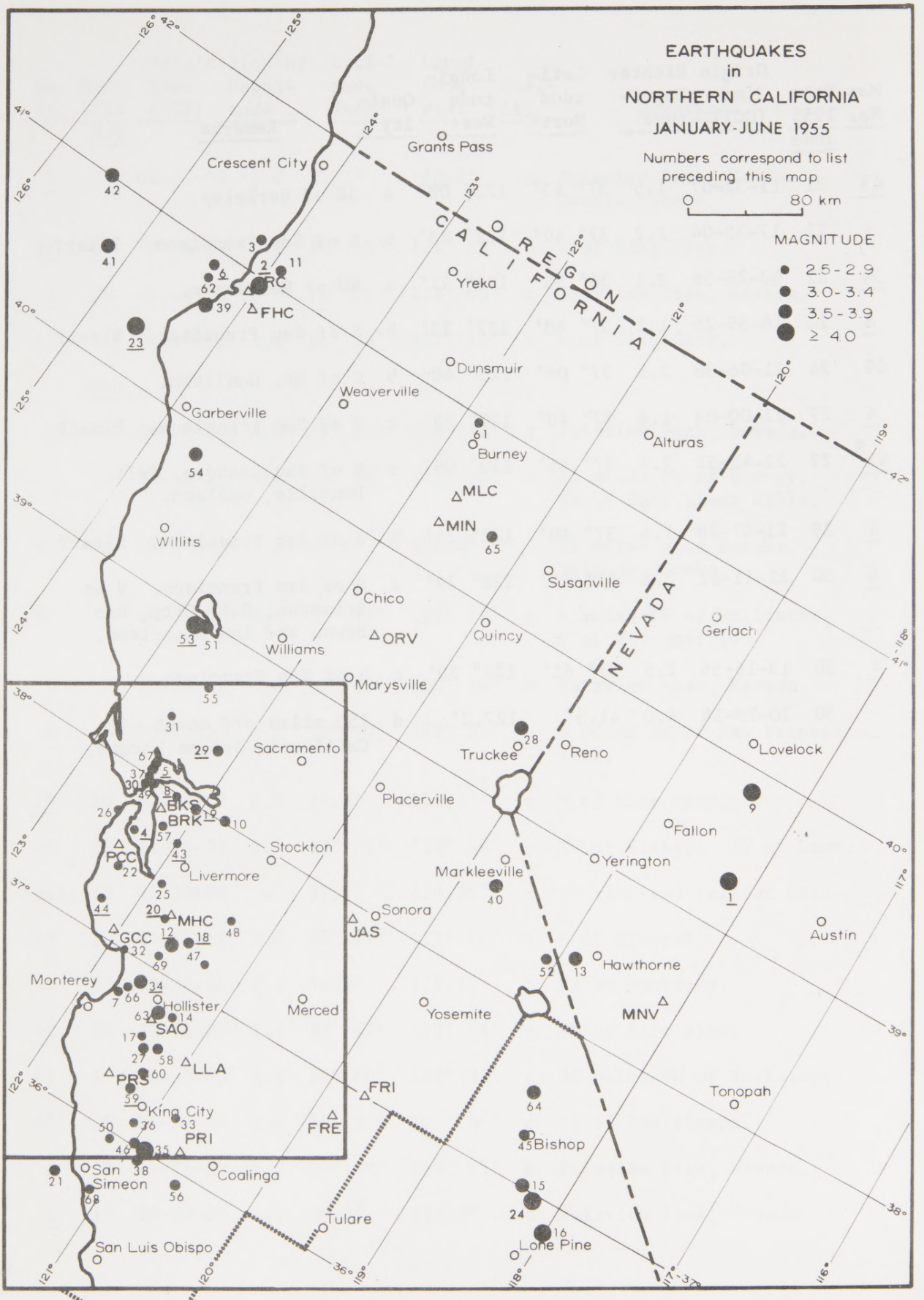
Map No.	Date 1955 Mar	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
1	13	21-08-27	4.0	39° 10'	118° 07'	b	Fairview Peak, Nevada.
1	14	18-23-47	4.7	39° 25'	118° 15'	c	Fairview Peak, Nevada.
4	14	18-34-12	1.5	37° 40'	122° 22'	b	S of San Francisco. Blast?
43	14	23-08-59	1.7	37° 46'	122° 02'	a	SE of Berkeley.
Felt	15	01-23-00	-	36.8°	121.4°	d	III reported felt Hollister.
4	15	18-59-29	1.4	37° 40'	122° 25'	b	S of San Francisco. Blast?
Felt	15	23-56-00	-	40.9°	124.15°	d	Reported felt at Eureka.
Felt	16	00-37-00	-	40.9°	124.15°	d	Reported felt at Eureka.
4	16	22-42-31	1.2	37° 40'	122° 23'	b	S of San Francisco. Blast?
4	18	18-30-52	1.6	37° 39'	122° 24'	a	S of San Francisco. Blast?
4	18	22-45-54	1.2	37° 40'	122° 23'	d	S of San Francisco. Blast?
4	21	18-46-49	1.4	37° 40'	122° 23'	c	S of San Francisco. Blast?
4	21	23-20-25	1.4	37° 40'	122° 23'	c	S of San Francisco. Blast?
1	22	03-15-40	4.4	39° 33'	118° 01'	b	Fairview Peak, Nevada.
1	22	04-06-14	4.4	39° 30'	118° 12'	c	Fairview Peak, Nevada.
1	25	19-54-39	3.8	39° 07'	118° 16'	b	Fairview Peak, Nevada.
1	26	03-51-28	4.2	39° 20'	118° 00'	b	Fairview Peak, Nevada.
4	28	19-24-47	1.3	37° 40'	122° 23'	b	S of San Francisco. Blast?
44	29	00-47-29	2.0	37° 13'	122° 14'	c	S of Palo Alto. Blast?
45	29	06-09-05	3.3	37.3°	118.5°	d	SW of Bishop.
1	30	09-24-28	4.3	39° 06'	118° 10'	c	Fairview Peak, Nevada.
	Apr						
1	2	02-22-51	4.2	39° 26'	118° 00'	c	Fairview Peak, Nevada.
43	2	21-32-04	1.8	37° 50'	121° 59'	b	SE of Berkeley.

Map No.	Date 1955 Apr.	Origin Time (GCT)	Richter Magnitude	Latitude West	Longitude West	Quality	Remarks
1	4	01-36-02	4.1	39° 30'	118° 01'	c	Fairview Peak, Nevada.
4	4	17-34-32	1.6	37° 42'	122° 23'	a	S of San Francisco.
46	4	20-56-56	3.2	36° 05'	121° 00'	c	SE of King City.
47	4	22-23-38	2.5	37° 11'	121° 18'	c	SE of Mt. Hamilton.
1	5	01-07-37	3.9	39° 00'	118° 11'	c	Fairview Peak, Nevada.
1	8	11-50-08	3.8	39.3°	118.0°	d	Fairview Peak, Nevada.
5	9	17-43-24	1.8	38° 01'	122° 30'	b	N of San Francisco.
48	11	13-03-38	2.8	37° 30'	121° 20'	b	NE of Mt. Hamilton.
1	13	11-32-57	4.4	39° 32'	118° 05'	b	Fairview Peak, Nevada.
8	14	19-28-48	2.0	37° 57'	122° 17'	a	N of Berkeley.
43	15	11-33-28	2.1	37° 43'	122° 04'	b	14 miles SE of Berkeley. Felt at Hayward.
49	15	20-24-26	2.1	37° 58'	122° 26'	b	NW of Berkeley.
20	17	08-07-55	2.1	37° 19'	121° 43'	b	W of Mt. Hamilton.
1	23	02-17-45	3.9	39° 00'	118° 04'	b	Fairview Peak, Nevada.
4	26	17-58-50	1.1	37° 40'	122° 23'	b	S of San Francisco. Blast?
50	27	09-28-08	2.8	35.9°	121.2°	d	SW of King City.
4	27	16-58-50	1.4	37° 40'	122° 23'	b	S of San Francisco. Blast?
4	28	17-13-32	1.3	37° 40'	122° 23'	b	S of San Francisco. Blast?
1	28	22-11-33	3.9	39° 25'	118° 04'	b	Fairview Peak, Nevada.
51	29	15-14-38	3.6	38° 57'	122° 46'	b	35 miles NE of Santa Rosa. Felt over 900 square miles of the Clear Lake region in Lake County. Maximum intensity VI. Near Kelseyville.
4	29	16-43-06	1.2	37° 40'	122° 23'	b	S of San Francisco. Blast?
1	30	16-29-15	3.8	39° 00'	118° 20'	c	Fairview Peak, Nevada.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
4	2	16-37-41	1.4	37° 40'	122° 23'	b	S of San Francisco. Blast?
4	3	16-36-15	1.3	37° 40'	122° 25'	b	S of San Francisco. Blast?
1	3	18-17-01	4.0	39.2°	118.0°	c	Fairview Peak, Nevada.
52	4	22-07-12	3.1	38.3	119.1°	d	SE of Markleeville.
4	6	19-22-36	1.2	37° 40'	122° 23'	b	S of San Francisco. Blast?
Felt	7	08-48-07	-	38.93°	122.87°	d	Foreshock of 11-50-39.
53	7	11-50-39	4.6	38° 56'	122° 52'	b	Near Clear Lake, California. Felt over approximately 1700 square miles. Of maximum intensity VI at Clear Lake Highlands, Lower Lake, Clearlake Oaks, Clearlake Park. USCGS magnitude 5.0.
53	7	14-56-15	4.2	38° 56'	122° 52'	b	Aftershock of quake at 1150.
1	8	10-38-31	4.5	38° 56'	118° 07'	b	Fairview Peak, Nevada.
4	9	16-35-21	1.6	37° 42'	122° 30'	b	SW San Francisco. Blast?
54	13	01-09-26	3.5	39° 50'	123° 37'	c	17 miles NW of Willits. IV at Branscome.
Felt	13	21-35-00	-	39.85°	123.60°	d	Reported felt at Branscome.
Felt	14	20-00-00	-	36.35	121.85	d	IV reported felt Big Sur and Santa Cruz.
55	15	21-15-55	2.8	38° 40'	122° 33'	b	NE of Santa Rosa.
4	16	16-19-43	1.1	37° 40'	122° 25'	b	S of San Francisco. Blast?
56	16	18-22-52	3.0	35° 55'	120° 35'	c	SW of Coalinga.
57	17	10-22-02	2.0	37° 47'	122° 11'	a	SE of Berkeley.
4	18	18-08-54	1.2	37° 40'	122° 25'	c	S of San Francisco. Blast?
1	20	10-49-00	3.6	39.2	118.8	d	Fallon, Nevada.
58	22	00-12-23	3.0	36° 35'	121° 15'	c	SE of Hollister.
4	23	16-49-05	1.2	37° 40'	122° 25'	c	S of San Francisco. Blast?

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
1	29	04-44-06	4.0	39.2°	118.2°	d	Fairview Peak, Nevada. Double tremor.
59	30	09-38-29	3.0	36° 15'	121° 15'	c	W of King City.
1	30	21-28-26	4.5	39° 25'	118° 00'	c	Fairview Peak, Nevada.
60	31	01-45-53	3.0	36° 24'	121° 15'	b	N of King City.
	June						
1	6	09-20-10	4.3	39° 10'	118° 10'	c	Fairview Peak, Nevada.
61	7	11-40-13	2.9	40° 58'	121° 52'	d	12 miles NW of Burney. IV at Fall River Hills.
62	8	02-26-44	2.9	40.8°	124.4°	d	12 miles W of Eureka. Felt at Eureka.
63	8	06-02-59	3.8	36° 47'	121° 26'	c	4 miles SSW of Hollister. V at Watsonville.
1	8	12-22-11	4.5	38° 53'	118° 10'	b	Fairview Peak, Nevada.
4	8	16-26-56	2.5	37° 40'	122° 32'	b	9 miles SW of San Francisco. Felt.
59	10	14-55-12	2.5	36.3°	121.3°	c	N of King City.
64	10	18-26-37	3.6	37° 31'	118° 40'	b	NW of Bishop. IV at Laws.
Felt	13	04-50-00	-	37.4°	118.35°	d	IV reported felt at Laws.
65	13	06-32-11	3.0	40° 24'	121° 16'	c	E of Mineral.
66	13	19-32-44	2.2	36.8°	121.7°	d	NE of Monterey.
44	16	23-53-03	2.4	37° 09'	122° 16'	c	SW of Palo Alto.
67	18	18-33-40	2.2	38° 06'	122° 30'	a	20 miles NW of Berkeley.
68	19	05-36-33	2.5	35° 37'	121° 06'	c	SE of San Simeon.
1	19	19-20-00	5.2	38° 58'	118° 15'	b	Fairview Peak, Nevada.
1	19	19-25-16	5.0	39.0°	118.5°	d	Fairview Peak, Nevada.

Map No.	Date 1955 June	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
43	21	11-32-07	1.5	37° 43'	122° 08'	a	SE of Berkeley.
4	21	17-33-04	1.2	37° 40'	122° 23'	b	S of San Francisco. Blast?
34	22	08-28-56	3.1	36° 55'	121° 41'	a	NW of Hollister.
4	24	16-59-26	1.2	37° 40'	122° 23'	b	S of San Francisco. Blast?
69	24	21-06-38	2.5	37° 04'	121° 40'	b	S of Mt. Hamilton.
4	27	21-00-03	1.4	37° 40'	122° 25'	c	S of San Francisco. Blast?
43[$]	27	22-42-51	2.4	37° 45'	122° 09'	c	E of San Leandro. Felt Danville, Oakland.
4	29	21-47-28	1.4	37° 40'	122° 24'	b	S of San Francisco. Blast?
4	30	11-11-51	2.8	37° 42'	122° 29'	c	S of San Francisco. V at Brisbane, Daly City, San Bruno and San Francisco.
4	30	13-16-55	2.6	37° 41'	122° 30'	a	S of San Francisco.
	30	20-29-16	4.0	41.5°	127.2°	d	150 miles off coast of California-Oregon border.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY-JUNE 1955
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
NEVADA
OREGON
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Fallon
Stockton
Yerington
Markleeville
Livermore
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
Coalinga
San Simeon
Tulare
San Luis Obispo
Lone Pine
FHC
RC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
SAO
LLA
PRS
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1955

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	July						
1	1	15-09-36	2.4	36° 53'	121° 45'	b	SE of Santa Cruz.
2	3	17-48-21	4.3	39° 11'	118° 07'	b	Fairview Peak, Nevada.
2	4	12-37-13	4.1	39° 26'	118° 05'	c	Fairview Peak, Nevada.
1	5	00-24-13	2.8	36° 50'	121° 46'	b	SE of Santa Cruz.
3	5	07-07-03	3.1	39.3°	118.5°	d	SE of Fallon, Nevada. Felt at Salt Wells.
4	5	17-53-56	1.0	37° 40'	122° 25'	d	S of San Francisco. Blast?
4	5	19-08-29	1.3	37° 40'	122° 27'	c	S of San Francisco. Blast?
Felt	6	10-15-00	-	39.3°	118.5°	d	Reported felt at Salt Wells, Nevada.
5	6	11-29-18	3.4	36° 30'	121° 25'	c	S of Hollister.
5	6	13-18-53	2.7	36.5°	121.5°	d	S of Hollister.
4	6	20-40-40	1.2	37° 40'	122° 29'	c	S of San Francisco. Blast?
4	7	19-28-27	1.3	37° 40'	122° 29'	b	S of San Francisco. Blast?
4	12	23-19-22	1.3	37° 40'	122° 29'	d	S of San Francisco. Blast?
6	13	00-24-52	3.5	40.4°	125.8°	c	SW of Arcata.
7	13	23-33-54	3.4	40° 13'	124° 16'	b	S of Arcata.
8	15	01-08-58	3.0	37° 10'	121° 40'	a	S of Mt. Hamilton.
9	17	10-13-37	2.8	40.7°	124.4°	d	W of Arcata.
5	19	11-51-58	2.5	36.6°	121.5°	d	S of Hollister.
10	24	22-18-32	3.4	40° 46'	121° 34'	c	N of Mineral.
11	24	22-22-30	4.3	41° 15'	125° 40'	c	NW of Arcata.
5	28	12-07-52	2.6	36.5°	121.4°	d	S of Hollister.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
4	28	17-51-35	1.3	37° 40'	122° 29'	c	S of San Francisco. Blast?
Felt	28	22-42-00	-	38.75°	122.15°	d	Felt at Oakland Airport and San Leandro.
1	29	04-10-44	2.7	36° 51'	121° 45'	c	SE of Santa Cruz.
5	29	08-58-43	2.8	36° 37'	121° 24'	c	S of Hollister.
4	29	23-13-03	1.0	37° 40'	122° 28'	c	S of San Francisco. Blast?
	Aug						
4	2	21-18-32	1.1	37° 40'	122° 28'	b	S of San Francisco. Blast?
12	4	05-47-53	2.5	37° 19'	121° 43'	b	W of Mt. Hamilton.
13	6	21-01-58	2.7	36° 54'	121° 16'	c	E of Hollister.
	6	23-56-22	3.0	40.4°	127.6°	d	W of Arcata.
14	8	10-35-35	5.2	38° 20'	118° 40'	b	Mineral County, Nevada. Felt over 9000 square miles of Nevada and California. Maximum intensity V at Gabbs, Hawthorne, Yerington, Nevada, and Bridgeport and Benton, California. Epicenter is S of Hawthorne, Nevada.
2	9	05-24-21	4.2	39° 15'	118° 02'	c	Fairview Peak, Nevada.
15	12	03-55-52	2.6	37° 53'	122° 14'	a	Near Berkeley. Felt over 400 square miles in Alameda and Contra Costa counties. Maximum intensity V at Oakland.
15	14	07-05-37	2.6	37° 51'	122° 13'	c	Near Berkeley. Felt in East Oakland, Montclair Dist., downtown Oakland and Berkeley.
4	16	17-02-55	2.4	37° 41'	122° 28'	b	S of San Francisco. Blast?
15	17	20-18-03	1.3	37.9°	122.3°	-	Slight earthquake felt in the Berkeley-Oakland area.
15	17	20-37-51	1.3	37.9°	122.3°	-	Slight earthquake felt in the Berkeley-Oakland area.
15	18	00-01-09	2.5	37° 56'	122° 16'	b	Slight earthquake felt in the Berkeley-Oakland area.
16	18	08-44-52	3.5	39° 18'	120° 16'	b	W of Truckee.

Map No.	Date 1955 Aug	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
17	19	02-54-28	2.0	37.6°	119.4°	d	SE of Yosemite.
18	19	22-06-22	1.9	37° 46'	122° 10'	a	SE of Berkeley.
Felt	22	09-17-39	-	37.68°	122.78°	d	Near Colma. IV at San Francisco.
-	23	15-32-37	6.2	43.5°	128.0°	d	170 miles off coast of Oregon. Felt at Portland, Oregon.
-	24	06-56-20	4.5	44.5°	129.5°	d	Off coast of Oregon. USCGS epicenter.
19	24	20-37-29	3.6	40.3°	123.5°	d	SW of Arcata.
4	24	22-25-42	1.6	37° 40'	122° 23'	b	S of San Francisco. Blast?
20	27	07-00-26	4.5	40° 23'	124° 30'	c	18 miles SW of Ferndale. III at Eureka.
1	27	17-45-25	2.7	36° 56'	121° 42'	b	NW of Hollister.
21	30	01-57-15	4.1	40° 25'	124° 11'	c	10 miles S of Ferndale. Felt over 2000 square miles Humboldt County.
21	30	02-14-43		40° 25'	124° 11'		Aftershock of quake at 0157.
	Sep						
22	1	08-52-01	3.9	39.8°	118.0°	c	Dixie Valley, Nevada.
23	3	11-06-49	3.3	38° 10'	119° 15'	b	NE of Yosemite.
24	4	11-03-12	2.3	37° 22'	121° 24'	c	E of Mt. Hamilton.
12	5	02-01-18	5.5	37° 22'	121° 47'	b	6 miles W of Mt. Hamilton. Felt over an area of approximately 12,000 square miles of west-central California. Maximum intensity VII at San Jose and E of San Jose. V at many communities in central California including San Francisco.
12	5	20-09-02	2.8	37° 22'	121° 47'	b	Aftershock of quake at 0201.
25	6	20-56-11	3.5	38.5°	117.5°	d	NW of Tonopah, Nevada.
26	7	02-52-22	2.3	37° 48'	121° 48'	a	N of Livermore.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Sep						
4	7	14-22-53	2.8	37° 43'	122° 30'	b	SW of San Francisco. Felt in San Francisco, Daly City and Colma.
2	10	19-35-34	4.4	39° 27'	118° 01'	c	Fairview Peak, Nevada. This appears to be a double earthquake with the events separated by 37 seconds in time.
27	11	12-47-43	2.8	36° 58'	121° 32'	b	NW of Hollister.
CIT	11	23-24-35	3.3	37.9°	118.5°	d	N of Bishop.
28	12	11-25-25	2.3	37° 25'	121° 51'	a	NW of Mt. Hamilton. Felt E San Jose.
24	17	11-04-31	2.1	37° 23'	121° 21'	b	NE of Mt. Hamilton.
29	17	16-12-17	2.8	36° 38'	121° 18'	c	S of Hollister.
2	18	19-44-02	3.9	39° 25'	118° 00'	c	Fairview Peak, Nevada.
12	19	19-48-33	2.7	37° 22'	121° 47'	a	Aftershock of quake on Sept. 5 at 0201.
30	21	07-37-28	4.1	40° 05'	119° 40'	c	N of Reno, Nevada, near Pyramid Lake.
31	21	18-06-42	3.3	36.5°	121° 00'	d	N of King City.
2	25	22-11-51	4.1	39.6°	117.9°	c	Fairview Peak, Nevada.
23	28	09-52-33	4.2	38.2°	119.3°	c	SE of Markleeville. V in Mono County.
2	29	05-40-51	4.5	39° 13'	118° 12'	c	Fairview Peak, Nevada.
	Oct						
12	4	03-37-24	1.9	37° 21'	121° 48'	c	8 miles WNW of Mt. Hamilton.
2	6	07-15-42	4.1	39° 17'	118° 03'	c	Nevada aftershock.
32	9	08-44-30	1.8	37° 12'	121° 56'	b	Near San Jose.
Felt	12	02-44-00	-	40.85°	124.15°	d	IV reported felt Eureka.
12	18	09-58-31	1.9	37° 22'	121° 53'	c	Near San Jose.

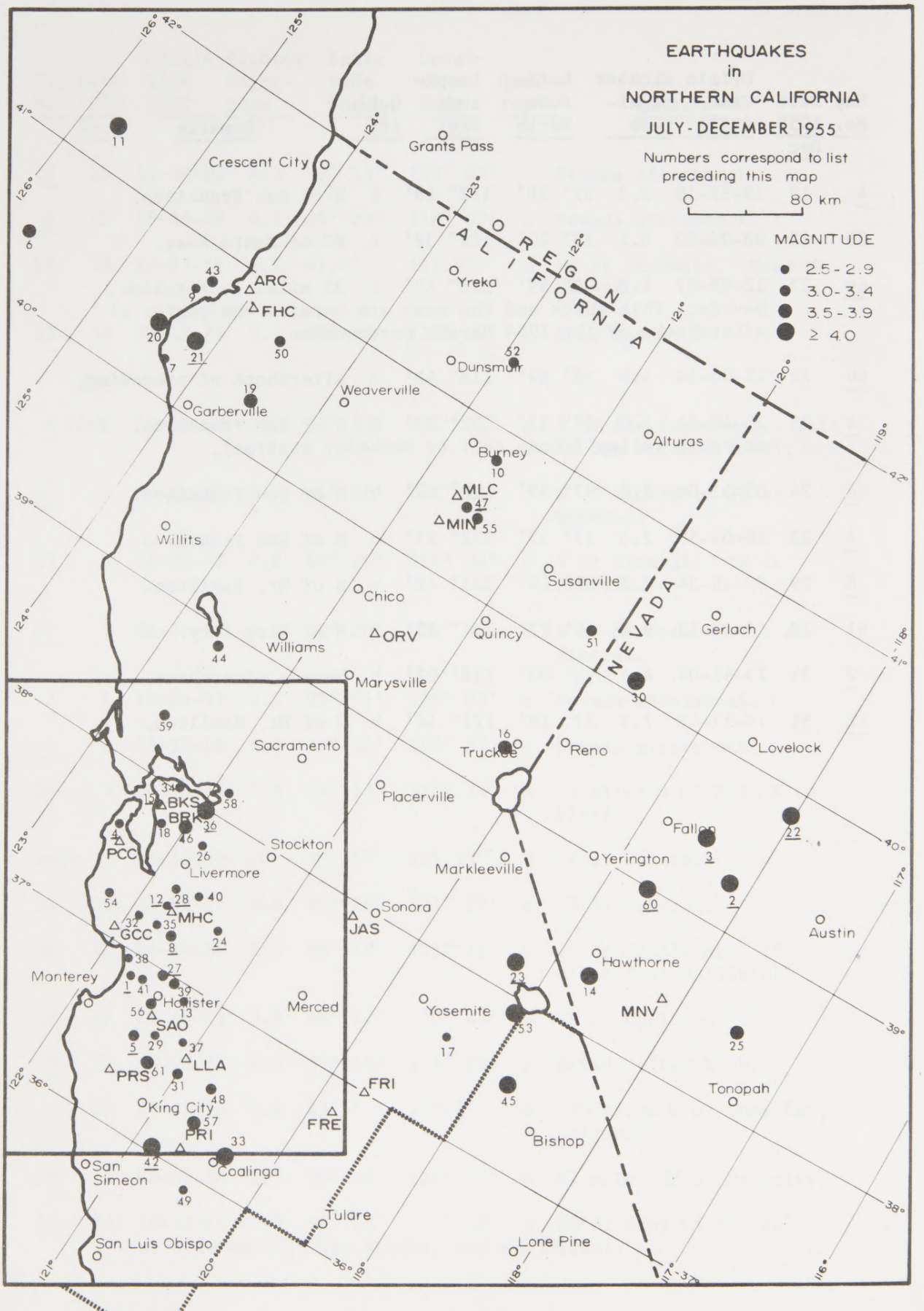
Map No.	Date 1955 Oct	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
27	20	04-08-52	3.0	37° 00'	121° 31'	a	16 miles NW of Hollister.
8	21	02-43-28	2.6	37° 13'	121° 38'	a	10 miles S of Mt. Hamilton.
33	22	07-04-13	4.2	36° 13'	120° 20'	c	N of Coalinga. V at Coalinga and 14 miles NW of Coalinga.
34	22	17-52-30	2.0	38° 02'	122° 14'	a	12 miles NNE of Berkeley.
35	23	02-24-43	2.2	37° 12'	121° 46'	c	SW of Mt. Hamilton.
36	24	04-10-44	5.4	37° 58'	122° 03'	a	Between Walnut Creek and Concord. Magnitude by Pasadena. Felt over an area of approximately 12,000 square miles of west-central California, centering in the Walnut Creek region of Contra Costa County. Maximum intensity VII. Moderate property damage, estimated at $1,000,000, occurred over a considerable area, and consisted mainly of broken windows, cracked walls and plaster, and loss from broken merchandise. The press attributed one death in Oakland to the shock, caused by a fire started by the earthquake. Intensity VII at Berkeley, Canyon, Concord, Cowell, Moraga, Pacheco, and Walnut Creek. VI throughout much of the San Francisco Bay area.
36	24	04-27-49	3.0	38° 01'	121° 56'	a	Aftershock.
36	24	06-03-56	2.3	38° 00'	121° 58'	a	Aftershock. Felt at Walnut Creek.
36	24	08-18-25	2.7	38° 00'	121° 56'	a	Aftershock.
36	24	09-45-33	3.1	38° 02'	121° 57'	a	Aftershock.
36	25	00-00-45	2.6	38° 00'	121° 56'	b	Aftershock.
37	25	13-23-23	2.6	36.7°	121.1°	d	SE of Hollister.
36	26	02-47-06	3.3	38° 02'	121° 58'	a	Walnut Creek aftershock. Felt at Walnut Creek, Lafayette, Orinda, Canyon and Martinez.
36	26	03-46-21	2.1	38° 00'	121° 56'	a	Walnut Creek aftershock.
36	26	08-02-10	3.3	38° 02'	121° 57'	a	Walnut Creek aftershock. Reported felt "from Martinez to Oakland..."
36	26	22-51-26	3.1	37° 59'	121° 55'	a	Walnut Creek aftershock. Felt in San Francisco Bay area. Minor damage in Martinez.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Oct						
Felt	27	19-33-32	-	38.02°	121.97°	d	Walnut Creek aftershock. V generally in San Francisco Bay region.
12	27	21-38-20	2.5	37° 16'	121° 46'	b	10 miles SW of Mt. Hamilton.
28	28	11-09-23	2.3	37° 32'	121° 45'	c	NE of San Jose.
38	28	13-33-25	2.5	36° 59'	121° 49'	b	E of Santa Cruz.
36	28	16-42-21	2.7	38° 02'	121° 58'	b	Walnut Creek aftershock.
39	28	17-48-53	3.1	36° 57'	121° 25'	b	N of Hollister.
36	28	19-54-37	2.5	38.03°	121.98°	-	Walnut Creek aftershock.
36	29	01-17-53	2.6	38° 02'	121° 59'	b	Walnut Creek aftershock.
40	31	17-22-53	2.8	37° 30'	121° 38'	b	8 miles N of Mt. Hamilton.
	Nov						
36	1	08-50-54	3.7	37° 59'	122° 02'	c	Walnut Creek aftershock. V in the East Bay region. Press reported some windows cracked and many people awakened in Concord.
41	1	16-00-15	2.6	36° 54'	121° 38'	b	NW of Hollister.
2	2	06-15-17	4.6	39° 30'	118° 03'	b	Nevada aftershock.
42	2	19-40-06	5.2	36° 00'	120° 55'	a	55 miles NNW of San Luis Obispo. Felt over an area of approximately 7000 square miles of the coastal region of west-central California. Maximum intensity VI. Slight damage reported. VI at Adelaida Road (14 miles W of Paso Robles), Bryson, King City, Paso Robles, San Ardo, San Lucas, and San Miguel.
36	3	22-04-45	3.3	37° 58'	122° 02'	a	Walnut Creek aftershock. Felt in Berkeley and at several points in Contra Costa County.
43	5	04-49-35	3.0	40.8°	124.3°	d	SW of Arcata. IV at Eureka.
44	6	02-18-02	3.0	38.9°	122.6°	d	30 miles N of Santa Rosa.
28	7	19-51-38	2.6	37° 27'	121° 51'	b	NE of San Jose.
45	8	02-40-52	4.2	37° 30'	118° 48'		Epicenter, origin time, and magnitude by Pasadena. V at Long Valley Dam (Bishop). IV at Yosemite Valley.

Map No.	Date 1955 Nov	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
28	9	20-57-59	2.5	37° 27'	121° 47'	b	NE of San Jose.
46	10	18-02-16	3.6	37° 50'	122° 03'	b	Near Danville. IV at Canyon and Moraga.
47	11	12-18-00	3.2	40° 30'	121° 34'	c	N of Mineral.
36	12	12-55-18	3.0	37° 57'	122° 01'	b	Walnut Creek aftershock.
48	12	18-36-59	3.1	36° 31'	120° 40'	c	SE of Llanada.
49	13	09-03-30	2.9	35.9°	120.5°	d	SW of Coalinga.
47	14	07-15-59	3.2	40° 29'	121° 35'	b	N of Mineral. IV at Mineral. Also felt at Manzanita Lake.
39	14	08-03-02	2.7	36° 54'	121° 27'	c	NW of Hollister.
47	14	13-12-58	3.1	40° 28'	121° 36'	c	N of Mineral. V at Manzanita Lake.
50	15	21-54-52	3.2	40.7°	123.6°	d	SE of Arcata. IV near Eureka.
36	17	23-02-40	2.9	37° 55'	122° 00'	b	Walnut Creek aftershock.
21	18	09-38-43	3.6	40° 25'	124° 05'	b	12 miles SE of Ferndale. IV at Rio Dell.
51	18	17-13-20	3.3	40.2°	120.2°	d	SE of Susanville.
42	19	10-59-41	3.3	36° 02'	120° 54'	c	SE of King City.
36	20	17-59-05	3.4	37° 55'	122° 01'	a	Walnut Creek aftershock. Felt at Walnut Creek.
2	21	20-25-33	5.5	39° 25'	118° 05'	c	Nevada aftershock.
2	21	20-40-35	4.4	39° 25'	118° 05'	d	Nevada aftershock.
CIT	21	21-14-18	3.5	36.1°	119.9°	d	E of Coalinga.
4	22	12-31-47	2.2	37° 36'	122° 26'	b	S of San Francisco. Felt in San Francisco Bay area.
22	23	04-24-08	4.1	39° 52'	118° 02'	c	Nevada aftershock.

Map No.	Date 1955	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Nov						
2	25	16-30-01	4.3	39° 23'	118° 03'	c	Nevada aftershock.
2	25	18-26-49	4.2	39° 23'	118° 00'	c	Nevada aftershock.
52	29	18-55-56	3.1	41.4°	121.9°	d	NE of Dunsmuir. Near Mt. Shasta.
53	30	23-12-29	3.7	37° 54'	119° 02'	c	E of Yosemite.
	Dec						
4	1	04-46-12	2.4	37° 37'	122° 31'	a	S of San Francisco. Felt in San Mateo (Press).
47	1	06-01-38	2.9	40° 28'	121° 33'	b	N of Mineral. IV at Mineral.
47	1	06-03-38	2.9	40° 28'	121° 33'	c	N of Mineral. IV at Mineral.
47	1	06-26-54	2.2	40° 28'	121° 33'	c	N of Mineral. Felt at Mineral.
2	1	10-24-57	4.3	39° 24'	118° 03'	c	Nevada aftershock.
2	1	15-31-16	4.0	39° 11'	118° 07'	c	Nevada aftershock.
54	3	00-49-16	2.5	37° 13'	122° 14'	a	15 miles S of Palo Alto. Blast?
Felt	5	06-50-00	-	40.45°	121.55°	d	IV at Mineral.
55	8	21-55-27	3.0	40° 26'	121° 27'	c	NE of Mineral.
56	10	04-16-30	3.0	36° 48'	121° 28'	b	SW of Hollister. IV 7 miles S of Hollister.
57	11	20-10-38	3.5	36° 16'	120° 43'	c	NE of Coalinga.
3	12	18-16-34	4.0	39° 34'	118° 29'	c	Nevada aftershock.
	12	19-41-20	4.2	43.4°	127.3°	d	150 miles W of Coos Bay, Oregon.
58	15	08-52-30	2.3	38° 10'	121° 53'	b	22 miles NE of Berkeley.
42	16	14-43-11	3.8	36° 02'	120° 52'	c	SE of King City. Felt at Atascadero, Paso Robles, and San Miguel.

Map No.	Date 1955 Dec	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
4	19	19-55-10	2.3	37° 38'	122° 29'	b	S of San Francisco.
59	22	08-04-50	3.1	38° 20'	122° 38'	b	SE of Santa Rosa.
60	22	12-05-07	4.8	38° 59'	118° 42'	b	35 miles S of Fallon, Nevada. This shock and the next are outside the region of aftershocks of the 1954 Nevada earthquakes.
60	22	12-06-54	4.6	38° 59'	118° 42'	c	Aftershock of preceding.
4	23	12-40-33	2.6	37° 37'	122° 27'	b	S of San Francisco. Felt at Pedro Valley (phone call to Berkeley station).
4	24	03-33-04	2.8	37° 37'	122° 27'	b	S of San Francisco.
4	25	19-04-50	2.3	37° 37'	122° 27'	c	S of San Francisco.
8	29	08-19-34	2.1	37° 14'	121° 40'	c	S of Mt. Hamilton.
61	29	13-33-17	3.4	36° 27'	121° 15'	c	N of King City.
2	31	13-51-04	4.5	39° 00'	118° 02'	b	Nevada aftershock.
12	31	18-17-48	2.3	37° 18'	121° 46'	b	W of Mt. Hamilton.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1955
Numbers correspond to list preceding this map
0 80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Stockton
Livermore
Markleeville
Yerington
Fallon
Austin
Sonora
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
SAO
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1956

Map No.	Date 1956	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
1	1	06-10-05	2.6	36.8°	121.6°	d	SW of Hollister.
2	2	20-21-50	2.4	37° 24'	121° 42'	b	Near Mt. Hamilton.
3	3	15-34-45	3.5	39° 18'	118° 05'	c	Nevada aftershock.
Felt	4	05-23-00	-	39.35°	123.25°	d	V reported felt at Ukiah.
3	4	09-13-16	3.6	39.4°	118.0°	d	Nevada aftershock.
4	6	11-37-14	2.2	37° 55'	121° 58'	c	ENE of Berkeley.
2	9	07-01-24	1.5	37° 25'	121° 45'	b	NW of Mt. Hamilton.
5	9	11-11-56	2.4	37° 40'	122° 32'	a	SW of San Francisco. IV at Daly City. Felt in Westlake, Colma, and Ingleside Districts.
6	10	08-37-24	4.1	41.5°	119.1°	d	60 miles N of Gerlach, Nevada.
	10	12-32-15	4.9	43.4°	127.3°	d	Off coast of Oregon.
	10	15-24-37		43.4°	127.3°	d	Coast of Oregon aftershock.
7	13	10-43-30	3.0	39° 23'	119° 43'	b	12 miles SE of Reno, Nevada.
2	13	16-31-56	2.3	37° 25'	121° 44'	b	NW of Mt. Hamilton.
2	14	00-43-21	2.5	37° 22'	121° 42'	b	Near Mt. Hamilton.
2	14	09-54-49	2.5	37° 25'	121° 42'	b	NW of Mt. Hamilton.
Felt	15	17-20-00	-	39.05°	118.05°	d	IV reported felt at Kaiser Mine, Nevada.
3	17	18-17-56	4.2	39° 30'	118° 02'	b	40 miles E of Fallon, Nevada.
3	23	02-27-14	3.5	39.5°	118.0°	d	Nevada aftershock.
8	24	07-29-33	3.4	37.3°	118.8°	d	W of Bishop.
2	24	13-32-11	2.0	37° 29'	121° 46'	c	NW of Mt. Hamilton.

Map No.	Date 1956	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Jan						
2	24	18-52-38	2.7	37° 25'	121° 47'	a	NW of Mt. Hamilton.
9	25	01-02-06	2.0	40.8°	122.4°	d	Shasta Reservoir.
CIT	26	21-04-16	3.4	37.42°	118.58°	c	W of Bishop.
3	28	22-55-26	4.2	39° 20'	118° 03'	c	40 miles ESE of Fallon, Nevada.
10	30	14-58-17	2.9	39.1°	119.0°	d	NE of Yerington, Nevada.
11	31	01-37-44	4.0	38° 15'	118° 55'	c	California-Nevada border, SW of Hawthorne, Nevada.
	Feb						
12	1	18-04-07	3.0	40.3°	124.8°	d	Off Cape Mendocino.
4	1	19-22-54	2.3	37° 56'	122° 02'	c	12 miles NE of Berkeley.
4	2	06-26-22	2.0	37° 59'	122° 01'	c	NE of Berkeley.
4	2	16-33-59	2.5	38° 00'	122° 04'	b	NE of Berkeley.
13	3	00-35-18	2.9	39° 26'	120° 15'	b	NW of Truckee.
2	5	18-29-08	2.5	37° 21'	121° 42'	b	Near Mt. Hamilton.
3	6	11-19-03	3.8	39.5°	118.5°	d	Nevada aftershock.
3	6	18-41-47	3.6	39° 04'	118° 11'	c	Nevada aftershock.
14	7	00-04-54	2.1	38° 03'	122° 30'	a	18 miles N of San Francisco.
15	8	23-41-38	2.0	37° 15'	122° 18'	b	SW of Palo Alto. Blast?
16	10	07-45-34	3.0	40.1°	122.5°	d	SW of Red Bluff.
2	10	10-10-14	2.8	37° 23'	121° 42'	a	NW of Mt. Hamilton.
17	10	18-39-34	1.5	37° 42'	122° 23'	a	S of San Francisco. One of a series of explosions.
18	12	12-06-03	3.5	40.3°	124.5°	d	SW of Ferndale.
4	13	21-36-38	2.3	37° 57'	122° 01'	c	ENE of Berkeley.
19	14	17-26-28	2.3	38° 33'	122° 33'	c	NE of Santa Rosa.
20	14	21-02-11	3.3	40° 30'	121° 34'	b	10 miles N of Mineral.

Map No.	Date 1956	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Feb						
21	14	22-15-08	2.8	36.5°	121.1°	d	SW of Llanada.
22	18	23-58-30	4.2	36° 40'	121° 19'	b	12 miles SSE of Hollister. Felt over an area of approximately 1300 square miles of San Benito and Monterey counties. Maximum intensity V at Paicines. IV at Chualar Canyon, 7-1/2 miles S of Hollister, Paloma Station (Carmel Valley), and San Benito.
22	19	00-05-08	2.6	36° 40'	121° 19'	c	Aftershock.
22	19	00-06-42	3.8	36° 40'	121° 18'	b	Aftershock. Felt 7-1/2 miles S of Hollister and at Paloma Station (Carmel Valley).
22	19	00-10-33	2.8	36° 40'	121° 18'	c	Aftershock.
22	19	00-38-14	2.6	36° 40'	121° 18'	c	Aftershock.
22	19	01-16-27	2.3	36° 40'	121° 18'	c	Aftershock.
22	19	02-52-56	2.6	36° 40'	121° 18'	c	Aftershock.
22	19	03-23-37	3.8	36° 40'	121° 18'	b	Aftershock. Felt at Big Sur, 7-1/2 miles S of Hollister, and Paloma Station (Carmel Valley).
22	19	10-25-48	3.2	36° 40'	121° 18'	c	Aftershock.
22	21	01-57-49	2.8	36° 40'	121° 18'	c	Aftershock.
22	21	05-20-29	2.9	36° 40'	121° 18'	c	Aftershock.
2	21	21-40-05	2.4	37° 22'	121° 41'	c	Near Mt. Hamilton.
2	21	21-41-22	3.0	37° 22'	121° 41'	c	Near Mt. Hamilton.
23	24	03-24-15	3.0	39° 20'	120° 05'	c	Near Truckee.
1	24	22-50-29	2.3	36° 50'	121° 34'	b	W of Hollister.
24	25	00-11-42	2.4	38.4°	122.4°	d	E of Santa Rosa.
	Mar						
2	3	22-36-57	1.8	37° 23'	121° 46'	b	NW of Mt. Hamilton.
25	5	19-46-49	3.8	40° 50'	124° 52'	b	40 miles W of Arcata.
26	7	11-09-30	2.1	37° 50'	121° 45'	a	10 miles N of Livermore.
3	7	17-54-47	3.9	39° 43'	118° 00'	c	Nevada aftershock.

Map No.	Date 1956 Mar	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
26	8	07-11-08	2.7	37° 51'	121° 50'	b	12 miles N of Livermore.
27	8	07-26-20	4.6	39° 02'	118° 04'	b	45 miles SE of Fallon, Nevada. V at Kaiser Mine (about 13 miles NW of Gabbs).
28	10	05-56-14	4.5	40° 18'	124° 14'	b	S of Ferndale. Felt over an area of approximately 2500 square miles of Humboldt County, California. Maximum intensity V. No damage reported. V at Alderpoint, Arcata, Carlotta, Ettersburg, Ferndale, Fields Landing, Fortuna, Holmes, Petrolia, Rio Dell and Weott.
28	10	06-03-21	3.6	40° 22'	124° 13'	c	Aftershock. Felt.
28	10	06-05-42	2.6	40.3°	124.2°	d	Aftershock.
29	10	14-07-56	4.2	39° 19'	118° 28'	c	20 miles SE of Fallon, Nevada. IV at Fallon.
20	11	07-49-18	2.8	40° 28'	121° 33'	b	8 miles N of Mineral. IV at Mineral. Main shock of series of about 70 shocks.
28	11	17-43-00	3.1	40° 18'	124° 17'	c	S of Ferndale. II at Scotia.
30	11	19-05-43	3.8	36° 33'	121° 11'	c	SE of Hollister. IV at Paloma.
30	12	01-24-47	3.1	36° 33'	121° 11'	c	Aftershock.
15	13	22-35-21	2.0	37.2°	122.3°	d	S of Palo Alto. Blast?
22	15	10-16-11	3.6	36° 37'	121° 20'	c	S of Hollister.
30	15	15-26-11	2.6	36.5°	121.2°	d	SE of Hollister.
31	16	21-44-10	3.5	40.9°	123.4°	d	E of Arcata.
3	18	00-27-06	3.6	39° 35'	118° 33'	c	Nevada aftershock.
20	18	10-17-41	3.5	40° 31'	121° 36'	c	10 miles N of Mineral. Felt.
20	18	10-22-03	3.7	40° 31'	121° 36'	b	10 miles N of Mineral. VI at Manzanita Lake. V at Lassen Peak and Mineral.
32	19	15-09-23	4.1	40° 08'	119° 40'	c	40 miles NNE of Reno, Nevada (in Pyramid Lake). IV at Flanigan, Nevada. Also felt at Empire (S of Gerlach).
24	20	19-32-07	2.0	38.4°	122.4°	d	35 miles N of Berkeley.

Map No.	Date 1956 Mar	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
22	21	02-38-31	2.5	36.6°	121.3°	d	SE of Hollister.
2	21	20-14-08	2.4	37° 25'	121° 47'	b	NW of Mt. Hamilton.
15	23	22-58-03	1.9	37° 14'	122° 13'	c	S of Palo Alto. Blast?
33	25	19-45-07	3.8	41.7°	125.9°	d	85 miles W of Crescent City.
34	31	00-49-18	2.0	38° 05'	122° 26'	b	NW of Berkeley.
	Apr						
35	1	10-49-45	2.5	40° 45'	121° 40'	b	S of Burney.
36	2	08-49-35	2.8	37° 57'	122° 18'	a	NW of Berkeley. IV at Canyon. Also felt at El Cerrito and Berkeley (phone reports). According to the Press, this earthquake caused a leak in a gas main at College Ave. and Bancroft Way, Berkeley. Escaping gas caused a persistent fire in a nearby telephone tunnel.
37	2	14-53-47	2.9	39.0°	122.5°	d	ESE of Ukiah.
30	3	09-26-02	2.7	36° 27'	121° 14'	b	SSE of Hollister.
38	4	00-53-28	2.2	38° 03'	122° 20'	b	NW of Berkeley. Felt in Richmond (Press).
20	5	01-15-14	3.0	40.5°	121.5°	d	N of Mineral. Largest of a small swarm of Lassen Park shocks. IV at Manzanita Lake.
19	5	04-29-13	4.4	38° 32'	122° 31'	b	12 miles NE of Santa Rosa (near St. Helena). This shock and its aftershock at 04-29-32 were felt over an area of approximately 3000 square miles of the coastal region of north-central California. Maximum intensity VI. Slight damage reported. VI at Angwin-Sanitarium area, Calistoga, Napa, St. Helena, and Yountville. V at Bolinas, Cotati, Inverness, and Sonoma.
19	5	04-29-32	4.2	38° 32'	122° 31'	c	Aftershock. See preceding for felt reports.
19	5	04-32-29	2.5	38° 32'	122° 31'	c	Aftershock.
19	5	04-33-28	2.3	38° 32'	122° 31'	c	Aftershock.
19	5	04-33-52	2.7	38° 32'	122° 31'	c	Aftershock.
19	5	06-17-49	2.5	38° 32'	122° 31'	c	Aftershock.

Map No.	Date 1956 Apr	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
39	8	06-15-31	2.4	37° 58'	121° 41'	b	NE of Berkeley.
40	8	06-47-14	3.8	40° 36'	124° 49'	b	W of Ferndale.
3	9	04-42-25	4.3	39° 11'	118° 07'	b	Fairview Peak, Nevada aftershock.
41	10	10-45-53	1.5	37° 50'	121° 55'	c	Foreshock of 14-09-20.
41	10	10-52-39	2.9	37° 50'	121° 55'	a	Foreshock of 14-09-20.
41	10	11-09-15	1.6	37° 50'	121° 55'	c	Foreshock of 14-09-20.
41	10	11-20-54	1.8	37° 50'	121° 55'	c	Foreshock of 14-09-20.
42	10	11-24-21	2.9	36° 26'	121° 29'	c	SE of Monterey.
41	10	13-07-52	2.4	37° 50'	121° 53'	c	Foreshock.
41	10	13-51-05	1.9	37° 50'	121° 53'	c	Foreshock.
41	10	14-05-08	1.2	37° 50'	121° 53'	c	Foreshock.
41	10	14-09-20	3.2	37° 50'	121° 53'	a	12 miles NW of Livermore. Felt in Walnut Creek and Berkeley.
41	10	14-29-56	1.2	37.8°	121.9°	d	Aftershock.
41	10	16-25-14	1.7	37° 50'	121° 53'	c	Aftershock.
41	10	17-44-41	2.4	37° 50'	121° 53'	c	Aftershock.
41	10	17-52-52	1.6	37° 50'	121° 53'	c	Aftershock.
43	10	20-53-21	2.9	36.3°	121.0°	d	NE of King City.
19	11	13-12-17	3.3	38° 28'	122° 29'	a	E of Santa Rosa. IV in St. Helena-Angwin area.
19	11	13-14-45	2.8	38° 28'	122° 29'	b	Aftershock.
19	11	13-15-05	3.1	38° 28'	122° 29'	b	Aftershock.
15	12	15-43-56	1.9	37° 09'	122° 13'	c	NW of Santa Cruz. Blast?
44	13	03-19-03	3.9	41.6°	126.2°	d	Off coast of Humboldt County.
45	14	19-01-51	3.2	41° 05'	123° 21'	c	NE of Arcata.
46	16	05-27-06	2.0	37° 17'	121° 33'	a	SE of Mt. Hamilton.

Map No.	Date 1956	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	Apr						
20	19	05-45-05	2.9	40.5°	121.5°	d	NE of Mineral.
47	19	06-58-57	1.8	37° 13'	121° 47'	c	SW of Mt. Hamilton.
48	19	14-03-42	2.0	37° 13'	121° 39'	c	S of Mt. Hamilton.
15	19	19-13-12	1.9	37° 09'	122° 14'	b	NW of Santa Cruz. Blast?
49	20	20-26-51	3.2	40.4°	123.0°	d	S of Weaverville.
3	23	15-03-00	3.0	39.5°	118.0°	d	Fairview Peak, Nevada, aftershock.
50	25	01-46-22	2.2	36.7°	121.5°	d	SSW of Hollister.
51	25	13-17-51	1.8	37° 53'	122° 02'	b	E of Berkeley.
24	25	23-57-54	1.9	38° 19'	122° 23'	b	NW of Berkeley.
52	27	22-28-59	2.9	37° 30'	121° 42'	b	N of Mt. Hamilton. IV at San Jose.
53	27	22-39-27	3.4	38° 13'	118° 00'	b	W of Tonopah, Nevada.
22	28	11-03-38	2.7	36° 33'	121° 18'	c	SSE of Hollister.
22	29	04-19-35	2.9	36.6°	121.3°	d	SSE of Hollister.
54	29	07-36-22	3.0	39.5°	118.5°	d	Fairview Peak, Nevada, aftershock.
55	29	08-46-03	3.0	38° 44'	120° 09'	c	S of Lake Tahoe.
30	29	20-16-15	2.4	36.6°	121.2°	d	SE of Hollister.
56	30	03-05-12	2.1	37° 15'	121° 53'	a	SW of Mt. Hamilton.
	May						
21	1	15-06-33	2.5	36.5°	121.0°	d	SE of Hollister.
47	3	00-58-13	2.2	37° 15'	121° 42'	d	SW of Mt. Hamilton.
57	3	03-30-30	3.0	38° 26'	122° 32'	c	SE of Santa Rosa.
58	4	08-16-14	3.1	35° 45'	121° 04'	b	NE of San Simeon.
2	5	18-33-47	2.6	37° 24'	121° 45'	a	NW of Mt. Hamilton.

Map No.	Date 1956 May	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
2	5	21-59-09	2.4	37° 22'	121° 47'	a	NW of Mt. Hamilton.
2	8	12-02-05	2.1	37° 20'	121° 41'	b	W of Mt. Hamilton.
15	8	22-55-04	2.0	37° 13'	122° 13'	b	14 miles S of Palo Alto.
3	9	06-57-19	3.0	39° 32'	118° 03'	c	Fairview Peak, Nevada, aftershock.
59	10	04-07-04	2.4	36° 57'	121° 41'	b	NW of Hollister.
60	10	05-03-18	3.8	39.9°	125.2°	d	SW of Ferndale.
20	10	09-07-56	3.3	40° 30'	121° 33'	c	N of Mineral. V at Mineral.
61	10	17-51-05	3.0	40.5°	121.8°	d	NW of Mineral. IV at Mineral.
2	12	13-28-24	2.2	37° 22'	121° 46'	a	NW of Mt. Hamilton.
29	13	04-10-03	4.3	39° 16'	118° 35'	b	SE of Fallon, Nevada. V at Fallon, II 5-1/2 miles W of Fallon. Also felt at Austin and Nevada Scheelite Mine (about 40 miles SE of Fallon).
20	15	18-36-48	3.6	40° 32'	121° 29'	b	Felt at Mineral. Largest of a minor swarm centered near Lassen Peak. A more complete discussion of this swarm will be found following this list.
20	15	19-37-53	2.8	40° 32'	121° 29'	c	Felt at Mineral.
20	15	19-42-44	3.4	40° 32'	121° 29'	c	Felt at Mineral.
Felt	17	18-57-00	-	37.25°	122.0°	d	III reported felt at Los Gatos.
Felt	18	10-30-00	-	40.53°	121.48°	d	IV Manzanita Lake.
62	20	06-05-39	3.7	40° 30'	125° 06'	b	W of Ferndale.
54	22	23-51-07	3.8	39° 27'	118° 27'	c	E of Fallon, Nevada.
63	23	16-54-00	2.4	36° 55'	121° 59'	c	Monterey Bay.
20	24	05-10-56	3.0	40.5°	121.5°	d	N of Mineral.
48	24	22-49-10	2.3	37° 12'	121° 37'	c	S of Mt. Hamilton.
14	25	00-01-09	1.4	38° 00'	122° 26'	c	NW of Berkeley.
4	25	12-04-01	2.1	37° 58'	121° 58'	a	NE of Berkeley.

Map No.	Date 1956	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
	May						
Felt	26	09-27-00	-	36.75°	121.4°	d	IV reported felt 7.5 miles S of Hollister.
14	26	19-32-23	2.2	37° 57'	122° 33'	b	NW of Berkeley.
26	28	18-00-41	2.5	37° 49'	121° 50'	a	N of Livermore.
64	28	23-22-25	3.1	40° 26'	124° 32'	b	SW of Ferndale.
65	29	07-08-56	2.5	41.1°	124.0°	d	NNE of Arcata.
3	30	19-19-36	3.9	39° 24'	118° 01'	b	Fairview Peak aftershock.
Felt	31	20-00-00	-	40.85°	124.15°	d	III reported felt at Eureka at this time and at 1844, 1850, 2100, 2230, 2241 and 2330 on June 1.
	June						
66	1	02-06-01	3.8	41° 13'	125° 16'	c	WNW of Arcata.
67	3	21-41-36	2.9	40° 12'	121° 34'	c	S of Mineral.
68	4	13-05-08	2.6	37° 39'	121° 40'	a	E of Livermore.
69	5	01-26-18	2.2	38° 11'	121° 51'	c	NE of Berkeley.
52	5	16-28-09	2.3	37° 32'	121° 41'	b	N of Mt. Hamilton.
70	6	23-50-07	4.0	41.2°	118.5°	d	NW Nevada.
71	7	15-52-45	3.1	40° 26'	121° 21'	c	E of Mineral.
Felt	8	22-25-00	-	37.8°	122.1°	d	IV reported felt at Canyon.
72	11	00-48-37	3.2	36° 00'	120° 58'	c	SE of King City.
22	14	04-17-40	2.3	36.6°	121.4°	d	S of Hollister.
50	15	12-31-14	2.6	36° 40'	121° 30'	c	SSW of Hollister.
73	15	23-42-03	2.8	36.3°	121.8°	d	S of Monterey.
28	16	21-12-02	2.5	40° 18'	124° 20'	c	S of Ferndale.
48	17	02-12-34	2.8	37° 11'	121° 36'	b	S of Mt. Hamilton.
59	17	11-58-56	2.7	36° 55'	121° 43'	b	NW of Hollister.

Map No.	Date 1956 June	Origin Time (GCT)	Richter Magnitude	Latitude North	Longitude West	Quality	Remarks
22	18	05-52-17	2.5	36° 35'	121° 18'	a	SE of Hollister.
22	18	22-30-08	2.5	36.6°	121.4°	d	SE of Hollister.
74	19	18-32-57	2.3	38° 17'	122° 31'	b	SE of Santa Rosa.
75	20	18-34-35	3.9	40° 43'	124° 58'	b	W of Arcata.
15	21	21-25-25	1.4	37° 11'	122° 09'	c	S of Palo Alto. Blast?
3	23	10-45-09	3.5	39° 10'	118° 09'	b	Fairview Peak, Nevada, aftershock.
22	23	20-03-20	3.3	36° 31'	121° 18'	b	WSW of Llanada.
46	24	07-23-14	2.2	37° 17'	121° 40'	a	S of Mt. Hamilton.
59	24	12-47-48	2.6	36° 58'	121° 46'	b	E of Santa Cruz.
30	24	23-46-15	2.7	36° 33'	121° 09'	c	WSW of Llanada.
3	28	02-17-08	3.2	39.5°	118.1°	d	Fairview Peak, Nevada, aftershock.
20	28	21-57-31	3.1	40° 30'	121° 36'	c	NW of Mineral.
20	29	05-31-21	2.9	40° 29'	121° 36'	c	NW of Mineral.

EXPLOSIONS IN SAN FRANCISCO BAY

Between October 1954 and March 1956 a number of explosive charges were set off in connection with a project of the State Division of Highways to relocate the Bayshore Freeway through the tidal mud flat between Candlestick Point and Sierra Point in the northeastern corner of San Mateo County.

These explosions were recorded on the seismographs at Berkeley, San Francisco, Palo Alto, and Mt. Hamilton. Determination of Richter magnitudes by methods applicable to local earthquakes yielded magnitudes from 1.1 to 1.8 for these explosions. The District IV Office of the Division of Highways has kindly supplied the approximate times of each of their explosions, which were set off in the Bay muds in order to obtain uniform displacement of the underlying Bay mud as embankment construction progressed. All shots during the 18 months period were fired between 1 mile and 1.9 miles south of the San Francisco-San Mateo County line at an approximate elevation of 30 feet below sea level. In the following list, origin times were determined instrumentally from seismograms.

Date 1955	Origin Time G.C.T. h. m. s.
Apr. 4	17 34 32
7	22 59 19
11	18 48 19
19	00 09 07
26	21 31 30
May 2	19 13 35
9	17 42 53
16	21 36 12
31	19 09 30
June 6	17 54 08
15	20 55 48
16	21 10 11
22	18 04 33
23	17 25 47
27	18 05 09
28	22 21 56
July 12	18 01 34
18	20 59 10
Aug. 1	18 03 22
8	15 56 52
15	16-45-06
Aug. 22	17 17 39
29	17 05 26
Sept. 6	20 36 50
13	18 02 41
1956	
Feb. 10	18 39 54
10	21 57 43
10	22 05 (not recorded)
13	22 00 14
24	21 36 39
27	00 15 57
Mar. 1	17 34 15
2	17 46 42
2	18 00 (not recorded)
5	21 35 06
12	00 29 49
20	19 12 11

The approximate location of these explosions is shown on the epicenter map (37° 40' N, 122° 23' W). During the period covered by this report a number of additional disturbances with similar seismographic appearance occurred in the same area. The Division of Highways suggests that these shocks may have been caused by other blasting by scavenger companies operating nearby. These disturbances which have not been confirmed as Freeway construction blasts have been listed separately in the list of local shock epicenters.

LASSEN PEAK EARTHQUAKE SWARM, MAY 1956

The earthquake of May 15, 1956 at 18-36-48 G.C.T. was the largest of a minor swarm of earthquakes centered near Lassen Peak. By the end of May 25, the activity had again subsided to the normal level for the area.

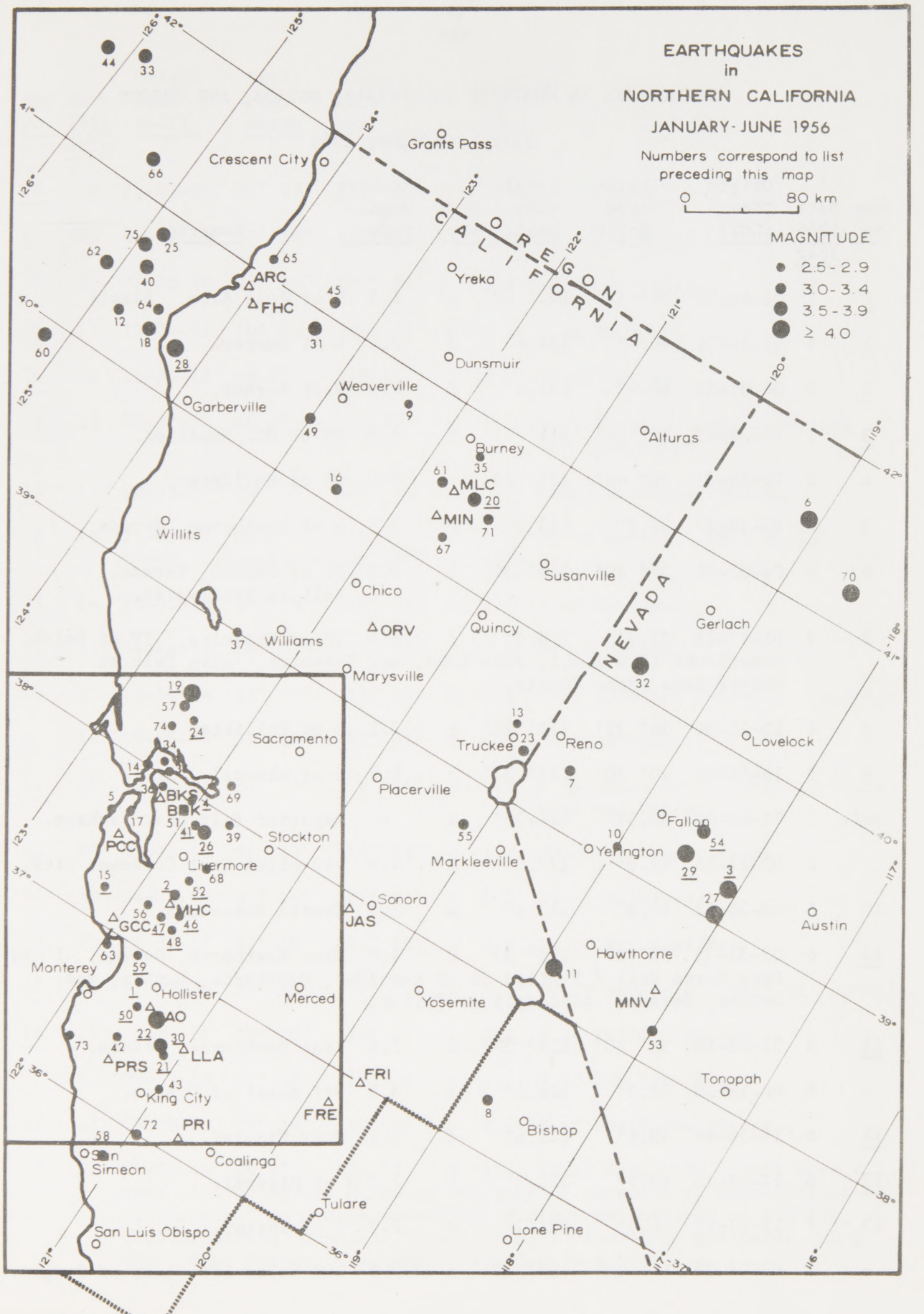
Table I below lists the dates, origin times, and Richter magnitudes of the larger shocks of the swarm. Table II gives a count, by six-hour periods, of earthquakes large enough to register on the N-S Wood-Anderson seismograph at Mineral with an amplitude of at least one millimeter. Mineral is about 30 km from the epicenter of the main shock, so that the smallest shocks counted in Table II are of Richter magnitude of approximately 1-1/2.

Table I

Date 1956	Origin Time (G.C.T.)	Magnitude	Date 1956	Origin Time (G.C.T.)	Magnitude
May 15	17 40 28	2.6	May 16	05 34 02	2.7
15	18 36 48	3.6	16	05 53 45	2.8
15	18 50 12	2.4	16	08 25 36	2.7
15	19 37 53	2.8	17	23 29 23	3.2
15	19 42 44	3.4	19	02 30 03	2.6
15	21 16 46	3.0	19	03 59 35	3.1
15	21 39 51	2.9	19	06 26 56	2.4
16	03 54 38	2.3	24	05 10 56	3.0

Table II

Date 1956	0^h to 6^h G.C.T.	6^h to 12^h G.C.T.	12^h to 18^h G.C.T.	18^h to 24^h G.C.T.
May 15	1	4	3	30
16	26	16	7	6
17	4	11	10	4
18	5	6	4	7
19	12	5	4	8
20	8	7	3	9
21	12	17	3	3
22	3	1	1	3
23	4	1	2	2
24	4	3	2	1
25		2		


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY - JUNE 1956
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
OREGON
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Willits
Burney
Alturas
Susanville
Chico
Williams
Marysville
Quincy
Gerlach
Sacramento
Truckee
Reno
Lovelock
Placerville
Stockton
Markleeville
Fallon
Yerington
Livermore
Sonora
Hawthorne
Austin
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
PCC
MHC
GCC
JAS
AO
PRS
LLA
FRI
FRE
PRI
MNV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1956

Map No.	Date 1956 July	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
1	2	01-44-52	37° 12'	122° 07'	c	1.5	S of Palo Alto. Blast?
2	3	01-50-39	40.7°	121.6°	d	2.4	S of Burney.
2	3	06-05-32	40.7°	121.6°	d	2.4	S of Burney.
3	3	17-28-43	37° 24'	121° 51'	b	2.3	NW of Mt. Hamilton.
4	3	22-26-31	36° 48'	121° 29'	c	3.0	SW of Hollister.
5	4	03-10-27	38.5°	119.2°	d	3.3	W of Hawthorne, Nevada.
6	4	04-35-36	39° 20'	118° 30'	c	3.7	SE of Fallon, Nevada. Felt at Stillwater.
7	4	05-57-28	37.7°	119.3°	d	3.6	SE of Yosemite. IV at Balch Powerhouse (P.G.& E.), June Lake, and Yosemite. Also felt at Silver Lake, Mono County.
8	4	20-21-30	36° 32'	121° 25'	c	3.1	S of Hollister.
9	5	19-58-04	40° 30'	121° 37'	c	2.6	N of Mineral.
Felt	5	21-18-00	38.35°	120.75°	d	-	Reported felt near Jackson.
	6	02-21-55	42.0°	127.0°	d	4.9	140 miles W of Crescent City.
10	6	03-30-22	40.8°	122.4°	d	2.4	Shasta Reservoir.
11	6	03-31-35	38° 27'	118° 37'	b	4.9	Near Hawthorne, Nevada. IV at Dead Horse Well (9 miles SE of Rawhide), Hawthorne, Luning, and Schurz, Nevada. Also felt at Fallon.
11	6	07-23-40	38° 30'	118° 34'	c	3.6	Near Hawthorne, Nevada.
-	6	08-13-10	42.3°	126.5°	d	3.5	Off coast of Oregon.
12	6	16-16-46	40.6°	121.6°	d	2.1	N of Mineral.
12	6	17-47-16	40.5°	121.5°	d	2.2	N of Mineral.
13	7	11-17-27	40.9°	121.1°	d	2.7	E of Burney.
-	8	02-01-29	42° 12'	126° 22'	c	3.9	100 miles off coast of Oregon.

Map No.	Date 1956 July	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
14	9	23-03-03	37° 57'	122° 00'	c	2.0	NE of Berkeley.
14	10	04-34-21	37° 59'	122° 00'	b	2.6	NE of Berkeley.
15	10	07-18-46	36° 54'	121° 31'	b	2.8	NW of Hollister.
2	11	19-04-55	40° 41'	121° 32'	b	2.9	N of Mineral.
16	12	11-24-15	39.8°	120.5°	d	2.9	SE of Quincy.
17	13	05-32-52	40.8°	123.6°	d	3.5	E of Arcata. Felt at Korbel and Blue Lakes.
11	13	06-03-21	38° 28'	118° 41'	c	3.8	Near Hawthorne, Nevada.
18	13	23-02-01	40.7°	121.4°	d	3.3	SE of Burney. Felt at Hat Creek. Aftershocks at 2308 and 2315.
8	14	13-36-28	36° 33'	121° 21'	b	2.7	S of Hollister.
19	15	04-44-23	40° 33'	121° 21'	b	2.2	NE of Mineral.
20	15	15-50-04	37° 40'	123° 13'	d	2.1	W of Farallon Islands. Explosion?
21	16	05-26-36	37° 49'	122° 01'	a	2.3	SE of Berkeley.
22	18	23-03-07	38° 39'	122° 44'	a	3.5	N of Santa Rosa. Felt at Santa Rosa and Windsor.
23	20	02-07-50	38° 45'	117° 45'	c	3.7	NW of Tonopah, Nevada.
24	20	14-00-49	37° 06'	121° 30'	b	2.2	NW of Hollister.
3	20	15-37-15	37° 26'	121° 49'	a	2.0	NW of Mt. Hamilton.
25	21	01-52-00	40° 16'	124° 22'	b	3.9	SW of Ferndale. Felt at Ferndale.
26	21	10-09-18	39° 28'	118° 05'	c	3.2	E of Fallon, Nevada.
27	22	02-13-23	37° 41'	122° 28'	c	2.1	S of San Francisco.
28	22	08-08-24	38° 26'	119° 03'	b	3.4	W of Hawthorne, Nevada.
29	23	08-03-48	36.3°	121.3°	d	4.7	NW of King City. Felt over an area of 4000 square miles of the coastal sections of west-central California. No damage reported. Maximum intensity V at Big Sur, Chualar Canyon, Gonzales, Greenfield, 7 miles S of Hollister, King City, Paso Robles, San Benito, and San Juan Bautista.

Map No.	Date 1956 July	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
30	23	08-20-37	36.5°	121.4°	d	3.1	Aftershock.
Felt	25	04-52-00	37.25°	120.45°	d	-	Reported felt 3.5 miles E of Merced.
31	25	06-52-16	38° 13'	122° 06'	b	2.9	NE of Berkeley. Felt at Napa, Solano, Vallejo, and Fairfield.
30	26	00-30-08	36° 35'	121° 26'	b	2.9	S of Hollister.
32	26	09-53-17	39° 33'	118° 27'	b	5.1	E of Fallon, Nevada. Felt at Kent Ranch, Stillwater, Nevada.
33	26	11-29-59	40° 27'	124° 18'	c	3.2	S of Ferndale.
34	28	22-46-38	36° 41'	120° 57'	c	3.0	N of Llanada.
35	31	15-59-14	37° 42'	122° 18'	c	1.7	S of San Francisco.
	Aug						
Felt	1	16-03-00	37.75°	122.5°	d	-	Reported felt in San Francisco.
1	1	21-47-00	37° 09'	122° 14'	b	2.3	S of Palo Alto.
36	2	01-15-16	40° 25'	124° 05'	c	3.0	SE of Ferndale.
37	2	16-23-57	36° 55'	121° 42'	b	3.1	NW of Hollister.
Felt	2	22-05-00	37.75°	122.5°	d	-	Reported felt in San Francisco.
19	3	03-39-41	40.6°	121.4°	d	2.9	NE of Mineral. IV at Manzanita Lake.
Felt	3	15-55-00	37.75°	122.5°	d	-	Reported felt in San Francisco.
38	3	18-21-25	40° 29'	121° 28'	c	3.2	NE of Mineral. IV at Mt. Harkness (Lassen Park).
39	6	01-02-12	39° 05'	118° 03'	b	3.4	SE of Fallon, Nevada.
27	6	15-47-48	37° 41'	122° 25'	c	1.8	S of San Francisco.
38	7	07-03-29	40.5°	121.5°	d	3.2	Near Lassen Peak. Felt at Manzanita Lake.
40	9	21-34-12	37° 46'	122° 12'	a	2.2	SE of Berkeley.
26	10	13-45-21	39° 20'	118° 02'	b	3.8	E of Fallon, Nevada.
41	10	19-26-00	38° 02'	122° 27'	b	1.9	NW of Berkeley. Felt in Richmond.

Map No.	Date 1956	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	Aug						
42	10	23-24-03	35.9°	121.3°	d	3.0	SW of King City.
43	12	04-04-06	38.1°	117.9°	d	4.0	W of Tonopah, Nevada.
44	14	05-32-12	37° 16'	121° 41'	b	2.2	SW of Mt. Hamilton.
45	19	09-16-56	38.9°	118.3°	d	3.8	NE of Hawthorne, Nevada.
46	20	05-10-33	36° 29'	121° 29'	b	3.2	S of Hollister. Near Gonzales. IV at Pinnacles National Monument.
32	21	18-55-42	39° 32'	118° 27'	c	3.5	E of Fallon, Nevada.
47	23	15-25-17	38.9°	122.8°	d	2.3	SE of Ukiah.
14	23	18-43-00	37° 54'	122° 00'	c	2.1	NE of Berkeley.
-	30	05-24-52	40.7°	126.4°	d	5.3	Off Cape Mendocino.
48	30	14-00-24	37° 29'	121° 47'	b	2.7	NW of Mt. Hamilton.
	Sep						
-	1	19-16-29	40.9°	126.6°	d	3.8	W of Arcata.
49	2	13-03-35	37° 27'	121° 46'	a	2.2	NW of Mt. Hamilton.
49	2	14-17-11	37° 25'	121° 43'	b	3.4	NW of Mt. Hamilton. IV at San Jose.
27	4	21-34-42	37° 38'	122° 26'	b	1.8	S of San Francisco.
27	4	23-48-01	37° 42'	122° 30'	c	1.7	S of San Francisco.
49	5	16-22-29	37° 27'	121° 45'	b	2.2	NW of Mt. Hamilton.
50	7	23-57-02	38° 07'	122° 26'	c	1.6	NW of Berkeley.
51	8	15-27-51	38.4°	119.4°	d	2.5	SE of Markleeville.
-	10	04-30-16	40.5°	127.2°	d	4.5	W of Arcata.
	14	09-22-12	40° 28'	126° 05'	c	4.2	W of Arcata.
36	14	10-01-17	40.4°	124.1°	d	3.2	SE of Ferndale.
49	14	14-28-32	37° 25'	121° 46'	a	2.3	NW of Mt. Hamilton.
52	15	00-34-37	36.3°	120.3°	d	2.7	N of Coalinga.

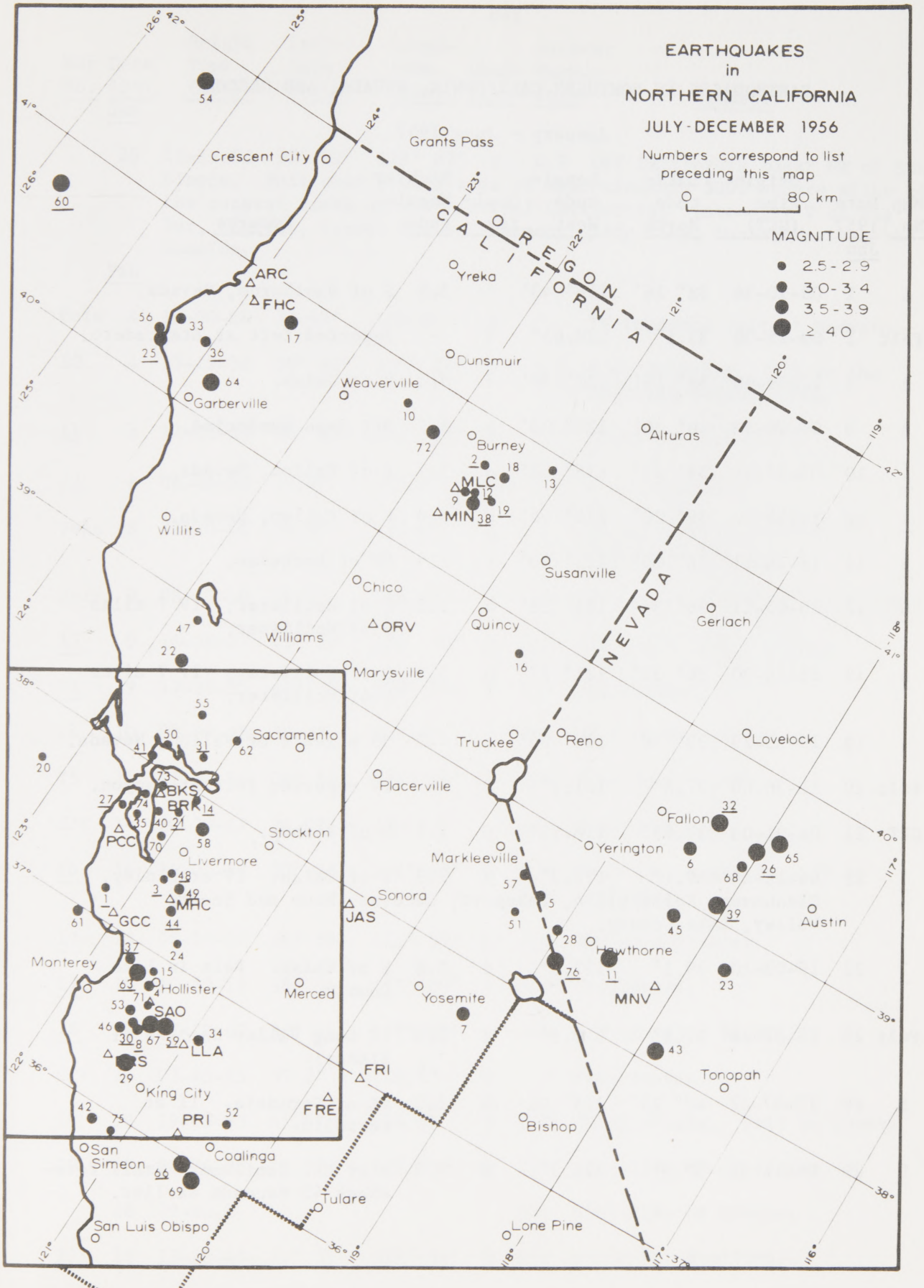
Map No.	Date 1956	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	Sep						
53	15	12-21-49	36° 36'	121° 31'	b	3.2	SSW of Hollister.
27	17	19-39-02	37° 41'	122° 28'	a	2.0	S of San Francisco.
41	17	23-46-16	37° 59'	122° 27'	b	2.4	NW of Berkeley.
12	18	13-52-06	40° 35'	121° 35'	c	2.9	Near Lassen Peak.
49	20	04-43-00	37° 21'	121° 44'	b	2.0	NW of Mt. Hamilton.
49	20	07-41-11	37° 21'	121° 42'	b	2.0	NW of Mt. Hamilton.
Felt	23	07-15-00	37.45°	118.8°	d	-	IV Long Valley Dam (20 miles NW of Bishop).
27	24	16-50-26	37° 42'	122° 25'	c	1.8	S of San Francisco. Blast?
39	25	04-53-08	39° 07'	118° 05'	c	3.8	SE of Fallon, Nevada.
54	26	17-53-26	41° 45'	125° 21'	c	4.1	NW of Arcata.
55	26	18-47-52	38° 25'	122° 21'	b	2.5	N of Berkeley.
56	29	16-49-47	40° 20'	124° 27'	c	3.1	SW of Ferndale.
48	30	04-31-17	37° 27'	121° 53'	b	2.9	NW of Mt. Hamilton.
	Oct						
21	2	20-57-53	37.7°	122.1°	d	1.8	SE of Berkeley.
38	4	10-11-21	40° 28'	121° 29'	b	2.7	NE of Mineral. Largest shock of a minor swarm which commenced at 0647 GCT, October 4, and continued intermittently for about 48 hours.
57	6	11-38-51	38° 38'	119° 29'	b	3.4	E of Markleeville.
36	6	12-30-42	40° 25'	124° 00'	b	3.3	SE of Ferndale. IV at Phillipsville.
26	6	14-19-17	39° 31'	118° 06'	b	4.0	E of Fallon, Nevada.
58	7	02-38-19	37° 49'	121° 50'	c	3.6	N of Livermore. Felt at San Ramon, Berkeley, and Oakland.
59	7	18-12-04	36.6°	121.2°	d	2.6	W of Llanada.
44	9	09-01-59	37° 15'	121° 39'	b	3.0	S of Mt. Hamilton.

Map No.	Date 1956 Oct	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
37	10	12-53-51	36° 51'	121° 46'	c	3.1	W of Hollister.
60	11	16-48-50	40° 40'	125° 46'	b	6.0	100 miles W of Ferndale. Generally reported felt over a land area of 3500 square miles of Humboldt County. Outside of this area, the shock was reported felt with slight intensity at Bucks Creek Powerhouse in Plumas County, and at Medford and Shady Cove, Oregon. Maximum intensity V. V at Bayside, Blue Lake, Crannell, Eureka, Ferndale, Fields Landing, Fortuna, Korbel, Petrolia, and Rio Dell.
60	11	17-18-19	40° 45'	125° 48'	c	4.8	Aftershock. Felt.
60	11	17-22-30	40.7°	125.8°	d	4.8	Aftershock. Felt.
60	11	19-38-58	40.7°	125.8°	d	4.3	Aftershock.
Felt	12	09-25-00	40.6°	124.1°	d	-	III reported felt at Carlotta.
Felt	13	19-43-00	40.85°	124.15°	d	-	IV reported felt at Eureka.
60	13	22-55-23	40° 45'	125° 48'	c	4.3	Aftershock of 1648 event, Oct. 11.
60	15	09-04-15	40.7°	125.8°	d	3.6	Aftershock of 1648 event, Oct. 11.
41	16	00-33-27	38° 03'	122° 32'	c	1.9	N of San Francisco.
49	17	22-48-04	37° 24'	121° 44'	b	2.5	NW of Mt. Hamilton.
	18	07-15-27	42.5°	126.2°	d	4.2	Off Cape Blanco, Oregon.
	18	09-11-41					Cape Blanco aftershock.
59	19	12-32-03	36° 39'	121° 14'	c	4.1	W of Llanada. Felt on Monterey Peninsula.
	19	23-58-31	42.5°	126.6°	d	4.7	Off Cape Blanco, Oregon.
61	21	14-02-30	36° 59'	122° 16'	b	3.2	W of Santa Cruz. Felt over a land area of 150 square miles of Santa Cruz County. Intensity IV at Ben Lomond, Boulder Creek, Davenport, Mt. Hermon and Santa Cruz.
38	21	20-33-01	40.5°	121.5°	d	2.7	Near Lassen Peak.
38	23	11-22-56	40.4°	121.5°	d	2.9	Near Lassen Peak.
41	27	00-05-20	38° 05'	122° 32'	c	2.6	N of San Francisco.
59	27	23-03-27	36° 38'	121° 10'	c	2.9	W of Llanada.

Map No.	Date 1956 Nov	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
1	2	22-45-22	37° 09'	122° 17'	c	2.3	NW of Santa Cruz. Blast?
62	3	09-00-30	38.4°	122.0°	d	2.6	SW of Sacramento.
Felt	4	04-37-00	36.75°	121.4°	d	-	II reported felt 7.5 miles S of Hollister.
63	5	20-17-20	36° 49'	121° 37'	c	3.0	W of Hollister.
31	6	15-37-13	38.2°	122.2°	d	2.3	N of Berkeley.
49	7	13-09-01	37° 29'	121° 45'	c	2.5	NW of Mt. Hamilton.
59	7	23-21-36	36° 40'	121° 12'	c	3.4	W of Llanada.
59	7	23-40-34	36.7°	121.2°	d	2.6	W of Llanada.
63	8	03-41-02	36° 47'	121° 40'	c	3.0	SW of Hollister. Felt at Hollister.
64	10	09-06-34	40° 13'	123° 48'	b	4.1	SE of Ferndale. V at Eureka, IV at Phillipsville.
	10	18-09-18	42.5°	126.6°	d	3	Off Cape Blanco, Oregon.
65	10	20-27-53	39.6°	117.9°	d	4.1	E of Fallon, Nevada.
CIT	12	10-13-00	36.3°	120.1°	c	3.3	NE of Coalinga.
Felt	14	13-49-23	37.47°	118.82°	c	3.7	V at Long Valley Dam (20 miles NW of Bishop).
66	16	03-23-09	35° 57'	120° 28'	b	5.0	SW of Coalinga. Felt over an area of 8000 square miles. Intensity VI at Mee Ranch (Lonoak), King City, and San Lucas.
	16	08-26-10	41° 02'	116° 27'	b	4.7	Northeastern Nevada.
66	19	13-53-53	35° 59'	120° 34'	c	3.3	SW of Coalinga. III at Adelaida (15 miles W of Paso Robles).
67	22	16-43-58	36.6°	121.3°	d	4.2	W of Llanada. IV at Big Sur and 7-1/2 miles S of Hollister.
	23	02-51-40	42.8°	126.4°	d	3.2	Off Cape Blanco, Oregon.
38	25	08-41-38	40° 28'	121° 32'	a	3.5	Near Lassen Peak.
38	28	16-34-18	40° 30'	121° 30'	b	2.8	Near Lassen Peak.
14	30	12-55-17	37° 59'	122° 01'	a	2.6	NE of Berkeley. Felt at Concord.

Map No.	Date 1956 Dec	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
63	1	14-11-25	36° 52'	121° 36'	b	4.4	W of Hollister. Felt over a land area of approximately 3,200 square miles of the coastal area of west-central California. Maximum intensity V. No damage reported. V at Aromas, Gilroy, Holy City, Morgan Hill, San Jose, Santa Clara, and Watsonville.
41	1	19-55-12	38° 02'	122° 30'	b	2.0	N of San Francisco.
68	3	14-48-08	39° 22'	118° 05'	c	3.0	E of Fallon, Nevada.
39	5	18-05-15	39° 08'	118° 04'	b	4.1	E of Fallon, Nevada.
39	6	05-47-23	39° 12'	118° 07'	c	3.9	E of Fallon, Nevada.
26	7	04-22-58	39° 39'	118° 00'	c	3.9	E of Fallon, Nevada.
CIT	7	04-29-49	37.5°	118.9°	c	3.3	NW of Bishop.
26	7	07-12-52	39.5°	118.0°	d	3.6	E of Fallon, Nevada.
69	11	10-56-53	35° 53'	120° 28'	c	4.1	Near Parkfield.
63	11	16-01-50	36° 53'	121° 33'	c	3.0	W of Hollister.
70	13	02-35-16	37° 38'	122° 03'	a	1.5	SE of Berkeley. Felt at Hayward.
Felt	15	12-30-00	38.6	119.5°	d	-	Reported felt Coleville (time uncertain).
71	17	06-35-51	36.7°	121.4°	d	2.6	S of Hollister.
3	18	12-30-51	37° 26'	121° 52'	c	2.9	NW of Mt. Hamilton.
72	19	05-10-44	40° 42'	122° 05'	c	3.8	15 miles E of Shasta. V at Whitmore. III at Ono. Also felt at Cottonwood, Kilare, Pit Powerhouses Nos. 3, 4, and 5 (PG&E), and Redding.
73	20	00-27-35	37° 55'	122° 17'	a	2.1	Near Berkeley. Felt at Berkeley.
74	22	11-09-55	37° 49'	122° 22'	a	2.1	Near Treasure Island, San Francisco Bay.
75	28	13-39-37	35.9°	121.1°	d	2.6	NE of San Simeon.
25	29	09-42-44	40° 17'	124° 24'	b	3.3	Near Punta Gorda.
41	29	22-12-23	38° 00'	122° 30'	a	1.9	N of San Francisco. Blast?

Map No.	Date 1956 Dec	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
76	31	17-36-16	38° 16'	118° 55'	b	3.8	Hawthorne foreshock.
76	31	17-37-45	38° 15'	118° 56'	b	5.0	Hawthorne foreshock.
76	31	17-39-24	38° 17'	118° 58'	c	5.1	SW of Hawthorne, Nevada. Reported felt over an area of 6000 square miles of western Nevada and eastern California. Maximum intensity VI assigned to the location S of Hawthorne where the Press reported two cracks were found in U.S. Highway 95. V at Hawthorne and Thorne.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1956
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
NEVADA
OREGON
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Truckee
Reno
Lovelock
Sacramento
Placerville
Stockton
Livermore
Markleeville
Yerington
Fallon
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
SAO
LLA
JAS
MNV
FRI
FRE
PRI

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - June 1957

Map No.	Date 1957 Jan	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
1	1	05-10-36	38° 16'	118° 43'	c	3.8	S of Hawthorne, Nevada.
Felt	1	09-25-00	35.5°	120.65°	d	-	Reported felt at Atascadero.
2	7	12-39-00	39° 15'	122° 38'	c	3.3	E of Ukiah.
3	8	00-46-43	40° 20'	125° 03'	b	3.7	Off Cape Mendocino.
4	10	03-37-54	39° 25'	118° 04'	c	3.7	E of Fallon, Nevada.
4	12	13-35-52	39° 20'	118° 05'	c	3.8	E of Fallon, Nevada.
5	12	15-18-11	38° 00'	122° 00'	c	2.5	NE of Berkeley.
6	12	23-05-11	36° 34'	121° 23'	b	3.3	S of Hollister. IV 7 miles S of Hollister.
6	12	23-14-30	36° 32'	121° 27'	b	3.3	S of Hollister. IV 7 miles S of Hollister.
4	13	19-35-29	39° 30'	118° 05'	c	4.0	35 miles E of Fallon, Nevada.
Felt	19	11-36-00	37.8°	121.1°	d	-	IV reported felt at Canyon.
CIT	21	04-01-03	37.63°	118.55°	d	3.5	N of Bishop.
7	22	04-15-46	39.1°	122.9°	d	2.9	E of Ukiah. IV at Finley, Glenhaven, Kelseyville, Lakeport, Lucerne, Nice and Scotts Valley, Lake County.
7	22	19-03-10	39.1°	122.9°	d	2.8	E of Ukiah. Felt in Lake County.
Felt	25	15-07-18	37.8°	118.8°	d	3.3	IV Long Valley Dam (NW of Bishop).
8	26	17-37-27	40° 24'	124° 01'	b	3.3	SE of Ferndale. II at Petrolia.
9	29	04-11-31	37.3°	121.7°	d	2.3	W of Mt. Hamilton. Small foreshock 45 seconds earlier.

Map No.	Date 1957	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	Jan 29	21-19-53	35° 52'	122° 07'	c	4.9	Off California coast NW of San Simeon. Felt over a land area of approximately 5000 square miles of the coastal areas of west-central California. Intensity V at Big Sur, Cambria, Carmel Valley, Harmony, King City, Lucia, Marina, and Seaside.
	Feb						
Felt	4	10-00-00	37.65°	121.0°	d	-	IV reported felt at Modesto.
10	4	15-15-30	38° 00'	122° 13'	c	1.3	N of Berkeley. III in the Berkeley-Oakland area.
11	5	12-02-33	36° 39'	121° 18'	b	2.8	SE of Hollister.
12	8	04-45-38	36.5°	121.2°	d	2.8	N of King City.
Felt	8	21-20-00	36.5°	122.0°	d	-	Sharp shock felt Monterey Peninsula (BSSA).
Felt	9	08-10-00	35.5°	120.65°	d	-	IV reported felt at Atascadero.
13	9	16-38-07	41° 10'	126° 18'	b	5.4	115 miles WNW of Arcata.
13	9	17-38-25	41° 12'	126° 17'	b	4.7	Aftershock.
14	10	08-39-38	38.3°	119.4°	d	3.0	SE of Markleeville.
15	11	07-54-54	36° 58'	121° 46'	b	2.5	E of Santa Cruz.
CIT	14	10-30-27	36.0°	120.6°	c	3.6	W of Coalinga.
16	14	13-03-48	37° 25'	121° 46'	b	2.7	NW of Mt. Hamilton. IV at San Jose.
17	15	08-26-07	36° 56'	121° 39'	b	2.9	WNW of Hollister.
17	15	10-39-13	36° 56'	121° 39'	b	2.7	Aftershock.
18	16	02-22-02	38° 35'	122° 12'	c	2.4	ENE of Santa Rosa.
CIT	17	03-45-15	37.2°	118.5°	d	3.5	Near Bishop.
19	18	19-05-03	41.0°	124.2°	d	2.7	NW of Arcata. Felt at Eureka.
20	28	00-26-38	41.7°	125.8°	d	3.5	100 miles NW of Arcata.
	28	09-26.8				3.5	Off coast of Oregon.
21	28	13-15-44	37° 31'	121° 51'	b	2.1	NW of Mt. Hamilton.

Map No.	Date 1957 Mar	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
22	2	16-39-52	40.0°	122.3°	d	3.0	SW of Red Bluff.
9	4	00-07-40	37° 22'	121° 46'	c	2.7	W of Mt. Hamilton. Felt in San Jose area.
23	9	00-51-44	40.9°	123.2°	d	3.8	NW of Weaverville.
24	9	05-31-55	37° 14'	121° 39'	b	2.6	S of Mt. Hamilton.
25	13	21-50-57	40.7°	123.9°	d	3.0	SE of Arcata. Felt in Eureka.
26	14	19-27-42	40° 16'	123° 50'	b	4.0	SE of Ferndale. IV at Eureka, Fortuna, Petrolia.
16	18	05-38-39	37° 28'	121° 45'	c	2.4	NW of Mt. Hamilton.
27	22	16-38-01	37° 41'	122° 29'	a	2.7	First foreshock of 19-44. Felt at Daly City, San Bruno, and San Francisco. This list includes later shocks of this series only if of magnitude 3 or above. A more complete tabulation of the shocks of this series follows this list.
Felt	22	18-18-00	37° 67'	122° 48'	d	-	IV reported felt at San Bruno.
27	22	18-48-23	37° 40'	122° 28'	a	3.8	Foreshock. IV at Daly City, Oakland, and San Francisco. Also felt at Berkeley, Hollister and Santa Cruz.
27	22	19-44-21	37° 40'	122° 29'	a	5.3	Principal shock. Magnitude by Pasadena. Epicenter on San Andreas fault near Mussel Rock in San Mateo County. Focal depth probably 7 to 10 km. This was reportedly the strongest shock felt in the city of San Francisco since 1906. Felt land area was approximately 13,000 square miles of west-central California. No lives lost, about 40 minor injuries reported. Damage of all types was estimated by engineers to be in the neighborhood of one million dollars. Principal building damage occurred to one- and two-story wood-frame houses in the Westlake Palisades tract west of Daly City along the ocean. State Highway 1 was closed by numerous landslides between Mussel Rock and Thornton. Separate list of foreshocks and aftershocks follows this list. A brief preliminary report on various phases of this earthquake appeared in Mineral Information Service, Vol. 10, No. 5, May 1, 1957, published by the California Division of Mines.
27	22	19-50-16	37° 40'	122° 30'	b	3.2	Aftershock. Felt in San Francisco.
27	22	19-51-51	37° 40'	122° 30'	b	3.0	Aftershock.

Map No.	Date 1957 Mar	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
27	22	19-52-30	37° 44'	122° 30'	b	3.4	Aftershock. Felt in San Francisco.
27	22	20-00-26	37° 42'	122° 31'	a	3.1	Aftershock. Felt in San Francisco.
27	22	20-03-48	37° 41'	122° 29'	a	3.1	Aftershock.
27	22	20-16-41	37° 41'	122° 31'	a	3.0	Aftershock.
27	22	20-32-16	37° 42'	122° 31'	a	3.0	Aftershock. Felt in San Francisco and Sonoma.
27	22	21-07-47	37° 41'	122° 29'	a	3.6	Aftershock. III in San Francisco.
27	22	21-18-29	37° 39'	122° 29'	a	3.8	Aftershock. Felt at Martinez, Oakland, San Anselmo, and San Francisco.
27	22	23-14-35	37° 39'	122° 27'	a	4.4	Aftershock. V at Millbrae. IV at Burlingame, Oakland, and San Francisco.
27	23	00-26-55	37° 39'	122° 29'	a	4.0	V at San Francisco. IV at San Mateo.
27	23	02-48-08	37° 42'	122° 30'	a	3.4	Aftershock. V at San Francisco. Also felt at Oakland and San Leandro.
27	23	03-28-53	37° 40'	122° 27'	a	3.2	Aftershock. IV at San Francisco.
27	23	05-42-13	37° 42'	122° 30'	a	3.2	Aftershock. V at San Francisco.
27	23	07-54-00	37° 40'	122° 29'	a	3.0	Aftershock.
27	23	08-13-48	37° 42'	122° 31'	a	4.2	Aftershock. VI at Menlo Park and San Francisco. V at Benicia, Oakland, and Port Costa.
27	23	12-54-32	37° 39'	122° 29'	a	3.8	Aftershock. Felt at Fallon and San Francisco.
27	23	17-36-14	37° 40'	122° 31'	a	3.3	Aftershock.
27	23	22-48-00	37° 39'	122° 27'	a	3.5	Aftershock. IV at San Francisco.
27	24	00-35-28	37° 40'	122° 29'	a	3.1	Aftershock. IV at San Francisco.
27	24	03-35-59	37° 41'	122° 30'	a	3.2	Aftershock. IV at San Francisco.

Map No.	Date 1957 Mar	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
28	25	22-45-42	37° 07'	122° 12'	c	1.8	NW of Santa Cruz. Blast?
27	27	02-13-25	37° 40'	122° 30'	a	3.1	Aftershock of Mar. 22. Felt at San Francisco.
27	27	10-41-53	37° 42'	122° 31'	a	3.1	Aftershock of Mar. 22. Felt at San Francisco.
29	27	13-22-12	39° 19'	118° 32'	c	3.6	SE of Fallon, Nevada. Felt at Salt Wells, Nevada.
30	28	19-59-33	38.4°	122.2°	d	2.0	ESE of Santa Rosa.
31	28	22-37-48	40.1°	122.3°	d	3.1	SW of Red Bluff.
	31	02-23-01	43° 45'	128° 10'	c	4.0	Off coast of Oregon.
9	31	11-50-14	37° 19'	121° 44'	b	2.0	W of Mt. Hamilton.
	Apr						
32	4	06-25-42	37° 23'	121° 45'	b	2.4	NW of Mt. Hamilton.
	5	00-04-10	40.4°	126.2°	d	4.1	100 miles W of Ferndale.
27	7	16-20-30	37° 40'	122° 30'	a	3.3	Aftershock of Mar. 22 at 19-44-21. IV at Millbrae.
33	8	09-00-39	37° 36'	121° 56'	c	1.7	SW of Livermore.
21	8	14-30-33	37° 32'	121° 50'	a	2.6	SW of Livermore.
34	10	06-34-51	40.4°	124.2°	d	3.3	S of Ferndale.
21	15	23-50-05	37° 31'	121° 46'	b	2.7	S of Livermore.
21[$]	19	01-29-38	37° 30'	121° 50'	c	1.8	S of Livermore.
35	25	06-45-46	39.2°	118.0°	d	4.2	SE of Fallon, Nevada.
CIT	26	03-08-09	37.12°	118.08°	c	3.8	Felt Tinemaha.
34	26	10-06-29	40° 20'	124° 08'	c	3.1	SE of Ferndale.
Felt	26	17-54-00	37.75°	122.5°	d	-	III reported felt in San Francisco.
35	26	18-03-07	39° 15'	118° 04'	c	4.0	SE of Fallon, Nevada.

Map No.	Date 1957	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	Apr						
27	27	00-15-04	37° 44'	122° 32'	a	3.0	Aftershock of Mar. 22 at 19-44-21. Felt in Westlake and Daly City.
36	27	00-58-07	38° 00'	122° 22'	b	2.6	NW of Berkeley.
29	27	05-39-27	39.4°	118.5°	d	4.2	E of Fallon, Nevada. Felt at Fallon.
9	28	23-05-11	37° 22'	121° 44'	b	3.3	NW of Mt. Hamilton. IV at San Francisco Sunset Dist.
5	29	08-07-38	37° 57'	122° 00'	b	3.5	NE of Berkeley. Felt at Concord, Walnut Creek and Canyon.
35	29	14-06-15	39.2°	118.1°	d	3.9	SE of Fallon, Nevada.
27	30	06-27-46	37° 40'	122° 31'	a	3.4	Aftershock of Mar. 22 at 19-44-21. V at Daly City and San Francisco. IV at Canyon and San Mateo.
37	30	20-31-36	38° 05'	122° 30'	b	2.1	N of San Francisco.
	May						
27	1	19-36-22	37° 40'	122° 28'	a	3.3	Aftershock of Mar. 22 at 19-44-21 Felt in Westlake and Castro Valley.
16	8	16-39-29	37° 25'	121° 47'	b	3.0	NW of Mt. Hamilton.
Felt	8	18-34-00	40.6°	124.1°	d	-	IV reported felt in Fortuna.
36	15	01-50-27	37° 59'	122° 20'	a	3.3	NW of Berkeley. IV in the East Bay area (Albany, Berkeley, El Cerrito, Richmond).
36	15	05-35-39	38° 00'	122° 22'	a	2.3	Aftershock.
36	15	11-06-44	38° 00'	122° 21'	a	2.6	Aftershock.
36	17	05-34-05	37° 59'	122° 21'	b	2.1	Aftershock.
38	17	05-40-50	38° 18'	118° 15'	c	3.6	SE of Hawthorne, Nevada.
18	22	13-13-43	38.6°	122.2°	d	2.2	NE of Santa Rosa.
24	24	13-01-53	37° 17'	121° 34'	b	3.1	SE of Mt. Hamilton.
24	25	16-12-14	37° 14'	121° 34'	b	3.0	Aftershock.
39	26	09-04-18	37° 21'	121° 29'	c	2.0	E of Mt. Hamilton.

Map No.	Date 1957	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	May						
40	28	17-48-34	38° 43'	119° 46'	b	3.2	N of Markleeville.
16	29	17-30-06	37° 27'	121° 44'	b	2.8	NW of Mt. Hamilton.
41	30	10-48-19	39.6°	118.2°	d	3.8	NE of Fallon, Nevada.
42	30	22-39-31	37° 44'	122° 03'	c	1.9	SE of Berkeley. Foreshocks at 2216, 2220, 2223, 2228, and 2031.
	June						
Felt	5	15-02-52	36.3°	119.03°	b	3.5	N of Haiwee. IV at Olancha.
8	5	18-32-55	40° 30'	124° 00'	c	3.4	SW of Ferndale. IV at Petrolia.
Felt	7	22-50-00	36° 25'	118.5°	d	-	IV reported felt at Olancha.
37	7	23-03-24	38° 04'	122° 31'	c	2.2	N of San Francisco.
43	10	17-59-22	39.5°	118.6°	d	3.0	E of Fallon, Nevada. Felt at Stillwater.
44	10	21-27-36	40.7°	125.0°	d	3.7	W of Ferndale.
45	11	16-57-55	39.2°	118.3°	d	4.2	SE of Fallon, Nevada.
27	13	10-40-55	37° 42'	122° 31'	a	3.0	Aftershock of Mar. 22 at 19-44-21. IV at San Francisco.
5	18	08-09-13	37° 58'	122° 00'	a	2.6	NE of Berkeley.
46	18	18-30-07	38° 17'	122° 07'	c	2.2	SW of Sacramento.
17	19	06-16-17	36° 54'	121° 43'	c	3.1	E of Santa Cruz. Felt at Watsonville.
21	20	01-40-52	37° 38'	121° 51'	b	2.5	SW of Livermore.
47	21	00-41-25	37° 42'	119° 17'	c	4.6	E of Yosemite. V at Yosemite Valley. IV at El Portal, June Lake, and Wawona.
30	21	18-34-46	38° 22'	122° 16'	c	1.8	E of Santa Rosa.
CIT	21	20-46-42	35.1°	120.9°	d	3.7	Off coast. Felt San Luis Obispo, Morro Bay.
11	22	19-52-58	36.6°	121.3°	d	2.8	SE of Hollister.

Map No.	Date 1957 June	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
18	25	21-12-43	38.6°	122.2°	d	2.5	W of Sacramento.
17	26	13-03-37	36° 54'	121° 40'	c	2.2	WNW of Hollister.
17	26	13-27-38	36° 54'	121° 40'	c	2.3	WNW of Hollister.
17	26	13-50-12	36° 54'	121° 40'	c	2.2	WNW of Hollister.
17	26	16-20-04	36° 54'	121° 40'	c	2.4	WNW of Hollister.
11	29	09-31-32	36.7°	121.3°	d	2.7	SE of Hollister.
11	30	10-44-02	36.7°	121.2°	d	2.6	SE of Hollister.

THE SAN FRANCISCO EARTHQUAKE OF MARCH 22, 1957

Foreshocks and Aftershocks

The following list tabulates the foreshocks and aftershocks of the earthquake near San Francisco at $19^h44^m21.0^s$ G.C.T., March 22, 1957 (Map No. 27). The list includes shocks of magnitude at least 2.0 through June 30, 1957, and is complete for such shocks with the exception of the first four minutes after the main shock (when seismograms from all local stations were hopelessly tangled) and with the possible exception of small shocks which might have occurred immediately after several of the larger aftershocks. The preceding regional list of earthquakes includes all shocks of this series of magnitude 3.0 and above.

Epicenters of the aftershocks are all within about six km of that of the main shock. The focal coordinates which have been given for some of the shocks were determined by use of arrival times at the three stations (Berkeley, San Francisco, Palo Alto), which are within 45 km of the foci. The San Francisco station is at epicentral distances of 8 to 14 km (ca) from the foci, which is the same order of distance as the depths of focus. For this reason, focal depths of these shocks can be computed with far more assurance than if the nearest station were farther from the foci.

The time marking system at San Francisco was inoperative at the time of the principal shock, and intermittently during the remainder of March. Consequently, some determinations were necessarily carried through using the sharp S minus P interval at San Francisco instead of an absolute P arrival time. Comparison of such shocks with similar shocks for which absolute time was available at San Francisco indicates that the probable error of a focal distance derived from an S minus P interval is no greater than that due to small timing errors when a focal distance is derived from a P arrival time.

Date	Time G.C.T.	Magnitude	Date	Time G.C.T.	Magnitude
Mar. 22	16-38-00.7	2.7	Mar. 22	19-48-22	2.8
	18-48-10	2.1		19-49.1	2.7
	18-48-23.0	3.8		19-50-16	3.2
	18-52-27.8	2.2		19-51-51	3.0
	19-04-19.8	2.6		19-52-30.4	3.4
	19-19-14.7	2.3		19-53.1	1.7
	19-25-18	1.4		19-53.6	2.3
	19-33-15	1.6		19-53-44	2.5
	19-44-21.0	5.3		19-54-26	2.0

Date	Time G.C.T.	Magnitude
Mar. 22	19-54-34	2.6
	19-54-57	1.9
	19-56-33.6	2.7
	19-57-36	2.2
	20-00-26.4	3.1
	20-03-10	2.3
	20-03-48.2	3.1
	20-05-15	2.5
	20-07.5	2.0
	20-07-41	2.2
	20-08-12	2.7
	20-11-37	2.2
	20-13.3	2.0
	20-15.6	2.0
	20-16-40.8	3.0
	20-18.6	2.6
	20-21-36	1.9
	20-22-17	2.4
	20-27.6	2.1
	20-28.5	2.5
	20-29-01	2.1
	20-32-16.0	3.0
	20-35-35	2.3
	20-37-05	1.9
	20-39-47	1.7
	20-41-23	2.1
Mar. 22	20-42-33	1.7
	20-45-19	1.7
	20-45.4	2.2
	20-59.0	1.6
	20-59-37.7	2.7
	21-01-29	2.0
	21-07-46.8	3.6
	21-10.0	1.7
	21-12-51	1.7
	21-14-18	2.0
	21-18-29.4	3.8
	21-26-31	1.7
	21-29-43.1	2.7
	21-32-00	2.6
	21-32-45	2.2
	21-34.8	1.6
	21-35-46	2.3
	21-37-54	2.7
	21-46-20	2.6
	21-52-22	2.0
	22-01-44	2.2
	22-26-30.1	2.8
	22-30-22	1.9
	22-39-57.7	2.8
	22-53-29	2.0
	23-01-45	1.7

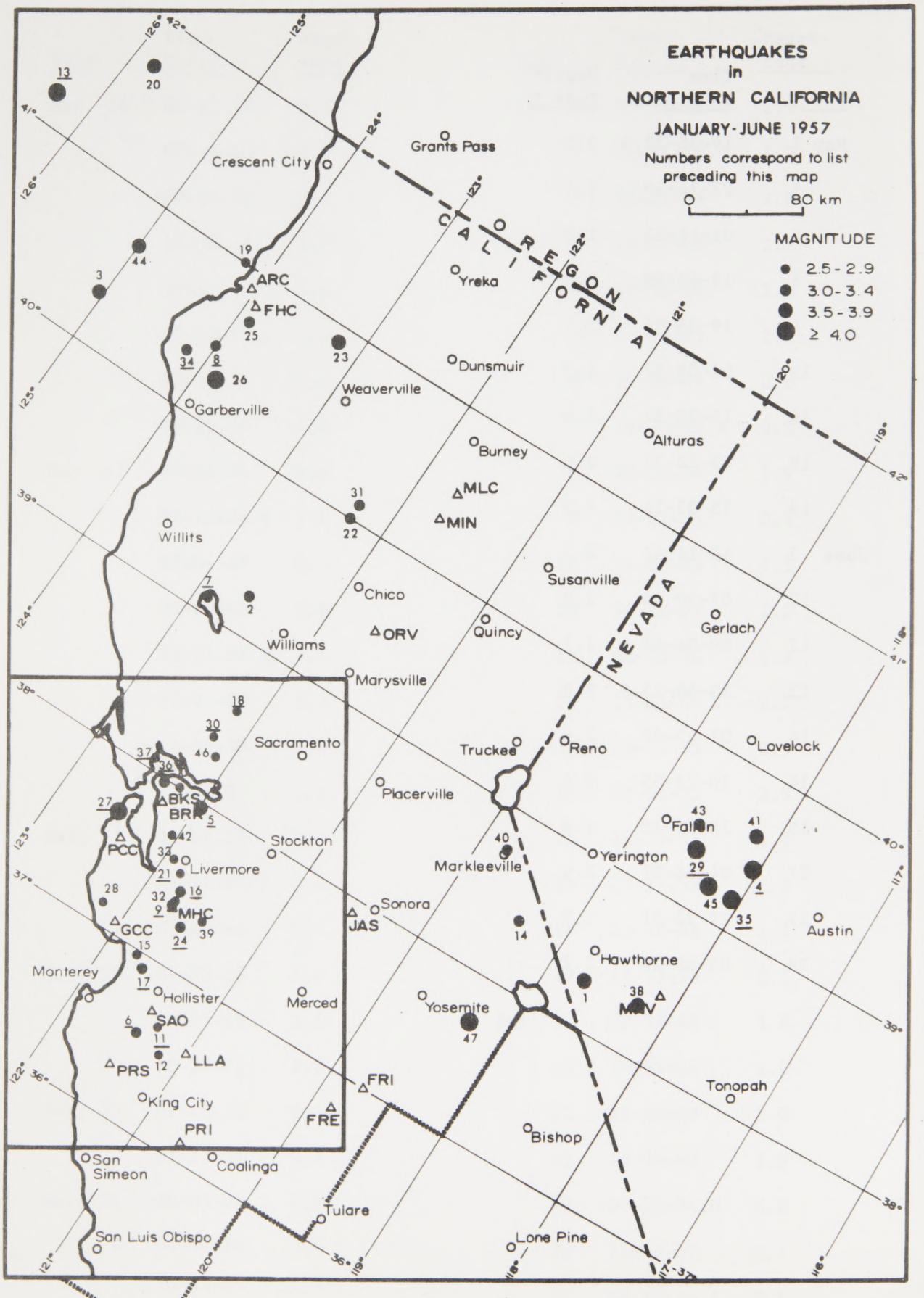
Date	Time G.C.T.	Magnitude
Mar. 22	23-03-53	1.8
	23-14-35.0	4.4
	23-22.1	1.7
	23-38.6	1.7
	23-50.5	1.7
	23-59.2	2.5
Mar. 23	00-02.1	2.2
	00-15-09	2.0
	00-26-55.1	4.0
	00-34-38	1.7
	01-03-22	2.2
	01-04-49	2.0
	01-07-05	1.6
	01-13-15	1.7
	01-15-33	2.4
	01-26-02	2.3
	01-28-57	2.0
	01-43-29	1.7
	01-45-30.2	2.9
	02-27-48	2.6
	02-34-11	2.2
	02-38-06	1.7
	02-48-07.9	3.4
	02-59.6	2.4
	03-00-15	1.9
	03-08-11	2.2
	03-09-43	1.6
Mar. 23	03-27-32	1.6
	03-28-53.2	3.2
	04-52-49	1.6
	05-42-13.3	3.2
	06-14-23.5	2.7
	06-19-41	1.6
	06-22-57	1.9
	07-52-17	2.1
	07-53-59.6	3.0
	08-13-48.3	4.2
	08-48-07	1.6
	09-18-55	1.8
	10-34-54	1.6
	10-57-18	2.2
	10-59-45	1.6
	11-00.1	1.6
	11-02-06	2.0
	11-17-06	1.6
	11-52-08	2.8
	12-54-32.5	3.8
	13-02-17	1.8
	13-24-03	2.3
	13-33-59	1.9
	13-48-42	1.7
	13-56-11	2.0
	14-22-33	2.6
	14-59-03	1.8

Date	Time G.C.T.	Magnitude
Mar. 23	16-02-48	2.5
	16-40-51	2.4
	16-48-54	1.9
	16-56-31.9	2.8
	17-36-13.7	3.3
	17-48-17	1.7
	18-11-54	2.6
	18-26-42	2.2
	18-42-58	1.6
	19-43-36	1.7
	19-50-52	1.7
	20-11-53	2.5
	21-33-44	2.2
	22-12-09	2.0
	22-48-00.5	3.5
	22-49-16	2.6
	22-53-55	1.9
	22-55-16	2.3
	23-06-24	1.6
	23-23-18	1.8
Mar. 24	00-35-27.6	3.1
	01-37-22	1.7
	02-00-07	2.3
	02-54-54	2.3
	03-35-59.5	3.2
	03-52-00.3	2.8
Mar. 24	04-46-12	2.0
	05-09-17	1.6
	05-30-14	2.5
	05-43-13	2.2
	06-26-50.6	2.7
	07-41-34	2.0
	09-02.5	1.6
	11-31.5	1.7
	14-59-05	1.7
	15-34-12	2.4
	17-43-13	1.6
	19-11-16.4	2.8
	19-52-33.1	2.5
Mar. 25	00-22-23.7	2.7
	02-39-12	2.0
	03-01-59	2.3
	04-27-31	1.7
	04-42-07	1.6
	05-04-48	2.0
	08-05-09.8	2.7
	09-31-11.2	2.6
	10-27-30	1.7
	12-36-09	2.0
	17-20-17	1.8
Mar. 26	05-13-57	1.7
	05-52-14	1.6

Date	Time G.C.T.	Magnitude
Mar. 26	07-13-32	1.8
	07-48-56	2.0
	09-14-30	2.2
	14-51-29.1	2.7
	14-51.8	2.6
	15-20-53.4	2.4
	20-58-19	2.4
	23-19-49	1.8
Mar. 27	00-51-41	2.0
	02-13-24.6	3.1
	07-04-49	2.3
	09-09-48	2.8
	10-41-52.8	3.1
	12-03-01	1.7
	13-05-18	1.7
	15-58.3	1.9
Mar. 28	06-14-19	2.0
	06-24-05	1.6
	07-46-44	2.2
Mar. 29	04-52-13	1.6
	07-05-49	1.6
	19-27-26	2.8
Mar. 30	07-48-33	2.9
	21-12-36	2.4
Mar. 31	00-03-51	2.0
	01-35-28	1.6
	16-43-26	2.4

Date	Time G.C.T.	Magnitude
Apr. 1	07-48-17	1.9
2	11-46-10	1.9
2	21-21-18	2.0
3	19-47-26	2.2
4	17-32-34	1.8
4	20-06-45	2.8
4	23-39-08	2.8
7	16-20-30.3	3.3
8	00-18-24	2.9
9	22-21-23	2.4
10	11-08-43	2.1
10	11-42-27	2.2
11	06-25-10	2.8
13	13-21-09	2.2
13	20-23-35	2.9
14	23-00-02	2.9
15	15-24-55	1.8
15	15-57-56	2.2
16	15-30-46	2.1
17	12-53-57	2.1
Apr. 19	03-53-44	1.8
21	18-55-24	2.8
21	21-38-09	2.9
23	14-34-40	1.9
27	00-15-04.0	3.0
28	11-12-07	2.7
30	06-27-46.1	3.4

Date	Time G.C.T.	Magnitude
May 1	19-36-22.5	3.3
1	23-26-33	2.4
5	01-12-25	1.8
6	18-43-59	2.1
8	19-36-04	2.7
13	01-08-27	2.3
16	11-22-37	2.4
19	03-22-35	2.6
19	15-03-14	2.5
June 3	18-14-47	2.7
12	07-39-00	2.0
12	09-04-47	1.7
13	10-40-55.5	3.0
14	03-43-02	2.6
14	10-22-55	2.1
15	18-51-18	1.8
27	04-38-02	2.9
27	21-32-51	1.9
28	09-58-20	2.2


EARTHQUAKES
in
NORTHERN CALIFORNIA
JANUARY-JUNE 1957
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Burney
Alturas
Willits
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Stockton
Livermore
Markleeville
Yerington
Fallon
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
SAO
PRS
LLA
FRI
FRE
PRI
MAV

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1957

Map No.	Date 1957 July	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
1	1	19-54-53	39.8°	119.8°	d	2.7	N of Reno.
2	2	02-36-23	37° 13'	121° 45'	c	2.2	SW of Mt. Hamilton.
3	2	20-15-14	36.6°	121.3°	d	2.7	W of Llanada.
4	3	06-29-09	38° 16'	122° 02'	c	3.1	NE of Berkeley. Felt at Fairfield.
4	3	07-05-48	38° 16'	122° 02'	b	3.3	NE of Berkeley. Felt at Cordelia (5 miles SW of Fairfield).
5	5	11-28-31	37.3°	119.0°	d	3.3	W of Bishop.
6	11	00-31-36	40° 32'	125° 46'	b	3.6	W of Ferndale.
7	12	08-27-24	37° 39'	122° 30'	a	2.1	Aftershock of Mar. 22, 1957.
8	15	06-40-08	37° 23'	121° 42'	b	2.5	Near Mt. Hamilton.
9	15	23-23-47.3	41° 01'	125° 12'	c	4.4	W of Arcata.
10	21	01-29-20	36° 26'	121° 13'	b	3.1	N of King City.
11	22	06-22-25	37° 31'	121° 34'	c	2.3	SW of Livermore.
12	22	17-24-01	39° 34'	118° 24'	b	4.0	NE of Fallon, Nevada.
7	23	04-28-54	37° 39'	122° 29'	b	1.9	Aftershock of Mar. 22, 1957.
13	26	04-50-22	41° 57'	125° 37'	b	4.3	W of Crescent City.
14	26	08-42-49	40° 04'	121° 17'	c	3.2	NW of Quincy.
15	26	22-37-53	38° 05'	122° 34'	b	2.1	NW of Berkeley.
16	28	13-56-06	40° 29'	123° 58'	c	3.2	SE of Ferndale.
17	29	06-03-54	37° 03'	121° 35'	b	2.5	NW of Hollister.
	Aug						
18	2	18-27-59	38.4°	122.9°	d	2.3	W of Santa Rosa.
19	3	09-31-22	36° 15'	120° 53'	c	2.5	E of King City.

Map No.	Date 1957 Aug	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
2	7	16-28-22	37° 15'	121° 41'	a	2.9	SW of Mt. Hamilton.
CIT	12	08-42-04	37.02°	118.25°	b	3.1	SSE of Bishop.
20	12	17-19-30	37° 03'	121° 40'	b	2.4	NW of Hollister.
21	13	14-36-06	41° 55'	125° 48'	c	4.2	Off California-Oregon border.
22	13	22-52-45	36.8°	121.6°	d	2.5	Foreshock of 2314.
21	13	22-55-08	41.9°	125.8°	d	3.2	Aftershock of 1436.
22	13	23-14-06	36° 45'	121° 38'	c	3.5	SW of Hollister. Felt at San Juan Bautista.
23	15	04-41-14	37° 54'	121° 58'	b	1.9	E of Berkeley.
2	15	09-03-13	37° 17'	121° 45'	b	2.9	SW of Mt. Hamilton.
Felt	16	18-02-00	36.85°	121.5°	d	-	V reported felt at San Juan Bautista.
7	17	05-24-11	37° 39'	122° 28'	a	2.9	Aftershock of Mar. 22, 1957. IV in San Francisco area.
24	19	16-36-23	37° 45'	122° 35'	b	2.3	W of San Francisco.
25	20	00-47-47	40.8°	121.7°	d	3.5	Near Burney.
26	21	07-38-34	36° 28'	121° 31'	c	3.6	NW of King City.
27	21	19-01-18	37° 12'	122° 14'	c	1.9	S of Palo Alto. Blast?
Felt	21	19-39-00	36.75°	121.4°	d	-	IV reported felt 7.5 miles S of Hollister.
7	27	12-34-34	37° 40'	122° 30'	b	1.8	Aftershock of Mar. 22, 1957.
3	29	13-48-45	36.6°	121.2°	d	2.8	W of Llanada.
28	31	09-36-35	36° 45'	121° 24'	c	2.6	S of Hollister.
	Sep						
29	3	01-20-07	40.7°	123.9°	d	3.0	SW of Arcata.
17	3	05-19-21	37° 03'	121° 30'	c	3.9	NW of Hollister. Felt over approximately 1500 square miles of coastal area from San Francisco to Watsonville. No damage reported. IV at Aromas, Coyote, Gilroy, Morgan Hill, Mt. Hermon, San Francisco, San Jose, San Martin, and Watsonville.

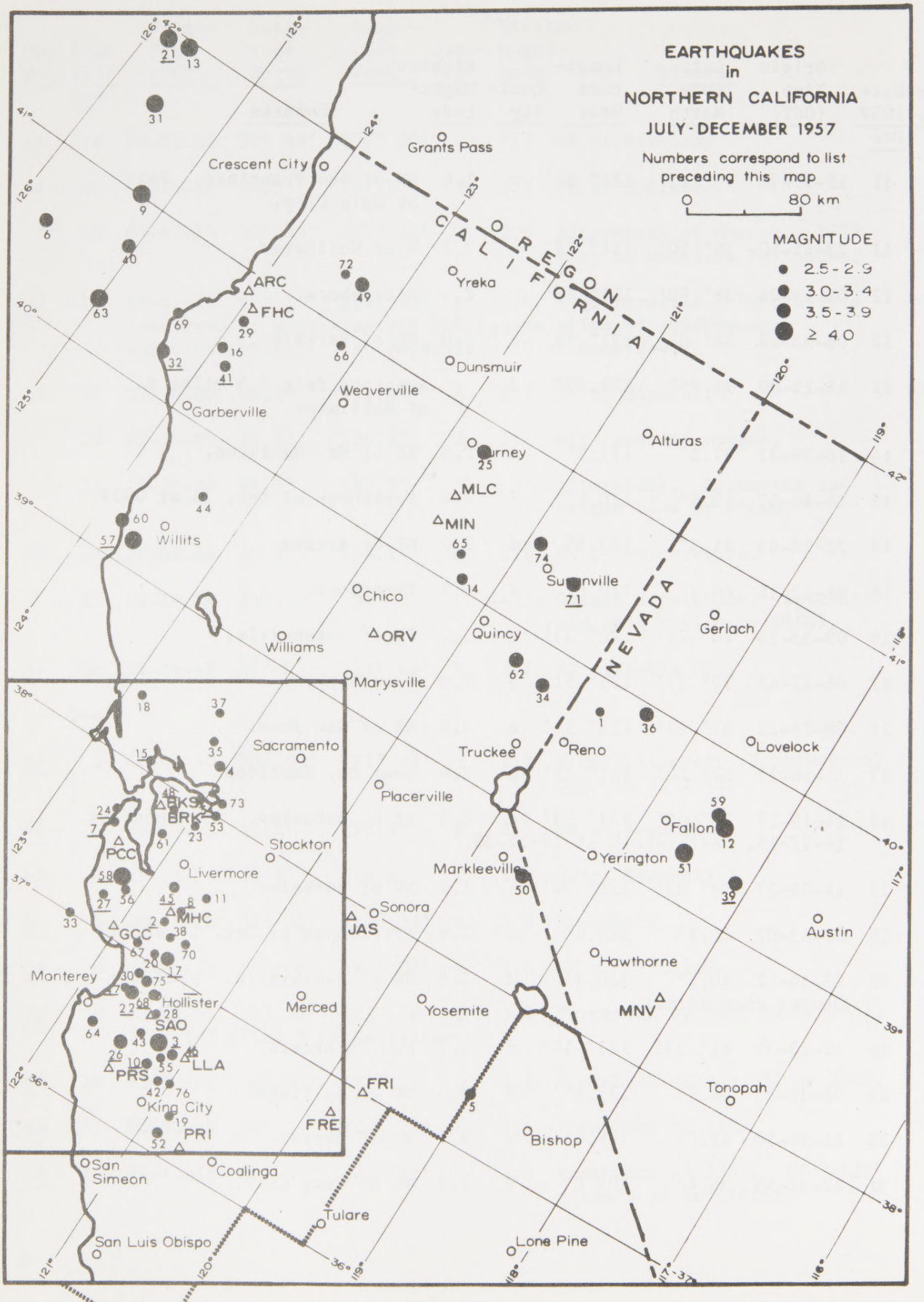
Map No.	Date 1957 Sep	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
7	3	11-42-07	37° 40'	122° 34'	b	1.9	Aftershock of Mar. 22, 1957.
30	3	12-43-12	36° 55'	121° 41'	c	2.3	E of Santa Cruz.
31	3	16-38-41	41° 32'	125° 35'	b	4.5	NW of Arcata.
32	4	04-59-08	40° 15'	124° 18'	c	3.7	S of Ferndale. Felt at Ferndale.
27	4	21-05-44	37° 12'	122° 15'	c	2.2	S of Palo Alto. Blast?
33	5	21-59-45	37.0°	122.4°	d	2.0	W of Santa Cruz.
34	6	05-46-08	39° 45'	120° 18'	c	3.5	NW of Reno.
35	6	22-55-02	38° 23'	122° 13'	c	2.0	E of Santa Rosa.
3	7	19-05-51	36.6°	121.3°	d	2.4	S of Hollister.
7	11	04-59-20	37° 42'	122° 32'	a	2.0	Aftershock of Mar. 22, 1957. Felt in Sunset Dist., San Francisco.
Felt	12	21-36-00	35.5	121.0	d	-	II felt at PG&E Plant, Morro Bay.
7	14	02-25-20	37° 40'	122° 32'	a	2.1	Aftershock of Mar. 22, 1957.
36	15	08-28-55	39° 55'	119° 25'	c	3.7	NE of Reno.
37	18	09-37-30	38° 34'	122° 19'	c	2.3	NE of Santa Rosa.
38	18	12-21-06	37° 11'	121° 37'	b	2.0	S of Mt. Hamilton.
39	19	10-50-13	39.3°	118.1°	d	3.7	SE of Fallon, Nevada.
40	19	19-02-23	40° 41'	125° 04'	c	3.7	W of Ferndale.
41	21	00-02-30	40.4°	123.8°	d	2.7	Foreshock.
41	21	01-19-37	40.4°	123.8°	d	3.3	SE of Ferndale.
42	21	06-54-26	36.4°	121.1°	d	2.8	N of King City.
43	21	14-30-05	36.6°	121.4°	d	2.5	S of Hollister.
Felt	21	15-32-00	35.5°	121.0°	d	-	II felt at PG&E Plant, Morro Bay.
7	23	15-29-11	37° 39'	122° 31'	a	1.7	Aftershock of Mar. 22, 1957.

Map No.	Date 1957 Sep	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
7	24	00-27-16	37° 38'	122° 30'	a	1.7	Aftershock of Mar. 22, 1957.
44	25	12-35-22	39° 38'	123° 22'	c	2.7	N of Ukiah. Several small aftershocks recorded at Ukiah.
26	25	23-33-31	36.5°	121.5°	d	2.7	S of Hollister.
45	28	15-17-19	37° 31'	121° 48'	b	3.1	NW of Mt. Hamilton.
46	28	19-10-14	36° 39'	121° 08'	c	2.8	W of Llanada.
3	28	21-04-39	36° 36'	121° 14'	b	4.5	SE of Hollister. IV at Big Sur and 7-1/2 miles S of Hollister.
3	29	01-38-10	36° 36'	121° 14'	c	2.7	Aftershock.
47	30	05-16-09	36° 46'	121° 43'	b	2.9	NE of Monterey.
	Oct						
10	1	12-55-57	36° 28'	121° 14'	c	3.3	SW of Llanada.
48	1	17-29-42	37° 52'	122° 12'	b	2.2	Near Berkeley. Felt.
3	2	09-57-42	36° 37'	121° 15'	b	2.7	W of Llanada.
49	6	17-27-02	41.3°	123.3	d	3.6	NE of Arcata.
17	13	22-02-43	37° 05'	121° 33'	c	2.4	NW of Hollister.
50	16	01-07-35	38° 41'	119° 35'	c	3.8	E of Markleeville.
51	17	10-14-09	39° 17'	118° 26'	c	4.6	SE of Fallon, Nevada. Felt at Fallon.
52	19	00-04-38	36° 06'	120° 52'	b	3.3	SE of King City.
53	19	09-47-57	38° 00'	121° 51'	c	2.9	NE of Berkeley.
54	20	10-46-32	38° 00'	122° 01'	b	2.0	NE of Berkeley.
55	25	15-36-27	36° 32'	121° 10'	c	2.7	SW of Llanada.
39	25	15-40-54	39.3°	118.2°	d	3.9	SE of Fallon, Nevada.
56	26	06-03-05	37° 17'	122° 07'	b	2.8	S of Palo Alto.
48	26	13-00-00	37° 51'	122° 08'	c	1.8	E of Berkeley.

Map No.	Date 1957 Oct	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
7	28	02-38-12	37° 40'	122° 31'	a	2.4	Aftershock of Mar. 22, 1957. Felt in outer Mission Dist. of San Francisco.
8	29	04-42-55	37° 21'	121° 43'	b	1.6	NW of Mt. Hamilton.
57	31	02-47-46	39° 11'	123° 41'	b	4.7	W of Ukiah. Felt over a land area of approximately 4000 square miles, principally in Mendocino County. Slight damage reported: plaster cracked at Willits; knick-knacks fell and broke at Comptche. VI at Willits and Comptche. V at Boonville, Calpella, Elk, Mendocino, Nashmead, Navarro, Philo, and Talmage.
57	31	14-37-54	39.2°	123.7°	d	2.4	Aftershock. Felt at Comptche and Philo.
58	31	19-47-06	37° 21'	122° 13'	a	4.1	SW of Palo Alto. Felt over a land area of approximately 2500 square miles of the coastal area of west-central California. V at Ben Lomond. IV at Alvarado, Aptos, Boulder Creek, El Granada, Los Gatos, Pescadero, and Soquel.
58	31	20-13-07	37° 20'	122° 12'	b	2.2	Aftershock.
	Nov						
59	1	04-51-57	39.6°	118.5°	d	3.8	NE of Fallon, Nevada.
60	1	20-50-57	39° 15'	123° 47'	c	3.6	NW of Ukiah. V at Comptche. IV at Philo.
15	2	21-23-57	38° 05'	122° 30'	c	2.0	NW of Berkeley.
15	9	00-43-30	38° 00'	122° 28'	a	2.5	NW of Berkeley.
61	9	17-33-16	37° 43'	122° 07'	b	2.5	SE of Berkeley. Felt at San Leandro, Castro Valley, and Hayward.
46	12	11-39-52	36.6°	121.1°	d	3.0	W of Llanada.
62	16	02-36-55	39° 49'	120° 34'	c	3.2	SE of Quincy.
47	16	07-59-54	36.8°	121.7°	d	2.4	NE of Monterey.
	17	06-00-29	45.3°	123.8°	d	4	Northwestern Oregon. Felt over a land area of approximately 4500 square miles of northwestern Oregon. VI at Salem. V at Dallas, Newberg, Otis, Willamina, and Yamhill.
63	17	06-32-21	40° 18'	125° 00'	b	4.2	Off Cape Mendocino.
10	18	01-11-42	36° 23'	121° 14'	c	3.1	NW of King City.

Map No.	Date 1957	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
	Nov						
54	18	05-01-34	37° 58'	122° 00'	c	2.3	NE of Berkeley.
64	18	07-26-32	36.5°	121.7°	d	3.3	SE of Monterey.
7	20	07-47-53	37° 39'	122° 30'	a	2.5	Aftershock of Mar. 22, 1957. Felt in Westlake Palisades.
32	20	18-41-28	40° 14'	124° 17'	b	3.4	S of Ferndale. Felt over a land area of approximately 500 square miles of southwestern Humboldt County. V at Petrolia. IV at Honeydew.
65	22	23-48-33	40.2°	121.4°	d	2.7	SE of Mineral.
	25	18-55-09	44.6°	130.7°	d	5.1	Off coast of Oregon.
	25	20-32-25	44.5°	129.5°		5	Aftershock. Epicenter and origin time by USCGS.
66	25	22-08-44	40.9°	123.1°	d	2.9	NW of Weaverville.
	25	22-16-44	45°	130°		4-3/4	Oregon aftershock. Epicenter and origin time by USCGS.
67	26	12-26-48	37° 03'	121° 49'	b	2.2	NE of Santa Cruz.
	Dec						
68	1	08-42-40	36° 50'	121° 32'	c	2.6	W of Hollister. Foreshock of Dec. 11 at 2345.
41	4	06-23-41	40.4°	123.9°	d	2.3	SE of Ferndale.
69	5	11-10-23	40.5°	124.4°	d	3.0	SW of Ferndale.
54	6	00-11-10	38° 02'	122° 03'	c	1.8	Foreshock.
54	6	04-25-52	38° 00'	122° 00'	b	2.6	NE of Berkeley.
68	10	23-05-51	36° 50'	121° 28'	c	3.0	Foreshock of Dec. 11 at 2345. IV 7-1/2 miles S of Hollister.
68	10	23-22-41	36° 50'	121° 28'	c	2.8	Foreshock of Dec. 11 at 2345.
68	11	00-30-39	36° 50'	121° 28'	c	2.4	Foreshock of 2345.
68	11	01-41-18	36° 50'	121° 28'	c	3.0	Foreshock of 2345. IV 7-1/2 miles S of Hollister.

Map No.	Date 1957 Dec	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
24	11	15-59-34	37° 42'	122° 34'	c	1.6	SW of San Francisco. Felt at Daly City.
68	11	23-45-50	36° 50'	121° 28'	c	3.2	W of Hollister.
68	12	00-18-04	36° 50'	121° 28'	c	2.4	Aftershock.
54	12	08-33-22	38° 01'	121° 59'	c	2.0	NE of Berkeley.
Felt	12	18-25-00	36.75°	121.40°	d	-	Reported felt 7.5 miles S of Hollister.
70	14	16-38-37	37.2°	121.5°	d	2.5	SE of Mt. Hamilton.
71	15	16-46-52	40.4°	120.6°	d	3.4	Foreshock of Dec. 16 at 0933.
72	15	22-28-43	41.3°	123.5°	d	2.7	NE of Arcata.
71	16	09-33-16	40.4°	120.6°	d	3.1	Foreshock.
71	16	09-33-23	40° 22'	120° 33'	c	3.7	SE of Susanville.
45	17	06-22-48	37° 27'	121° 51'	a	2.8	Foreshock.
45	17	08-24-22	37° 27'	121° 51'	a	3.0	NE of San Jose.
8	17	15-56-27	37° 20'	121° 39'	a	2.4	Near Mt. Hamilton.
73	19	14-19-17	38° 05'	121° 53'	c	2.3	NE of Berkeley. Foreshock at 14-17-16. Aftershock at 15-12-30.
15	19	19-04-37	38° 03'	122° 34'	c	1.7	NW of Berkeley.
71	19	22-43-07	40.4°	120.6°	d	2.9	Aftershock of Dec. 16 at 0933.
74	19	23-44-12	40.5°	120.9°	d	3.8	NW of Susanville. Probably deeper than normal.
	26	12-20-35	41° 27'	127° 19'	c	4.7	WNW of Arcata.
75	28	08-37-06	36.9°	121.6°	d	3.0	NW of Hollister.
	29	21-56-58	42.0°	126.4°	d	3.7	NW of Arcata.
76	31	22-32-55	36.4°	121.0°	d	2.9	NE of King City.


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY - DECEMBER 1957
Numbers correspond to list preceding this map
80 km
MAGNITUDE
2.5 - 2.9
3.0 - 3.4
3.5 - 3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Willits
Alturas
Burney
Susanville
Chico
Williams
Marysville
Quincy
Gerlach
Sacramento
Truckee
Reno
Lovelock
Placerville
Stockton
Livermore
Fallon
Yerington
Markleeville
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
King City
Bishop
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
SAO
PRS
LLA
FRI
FRE
PRI
JAS
MNV

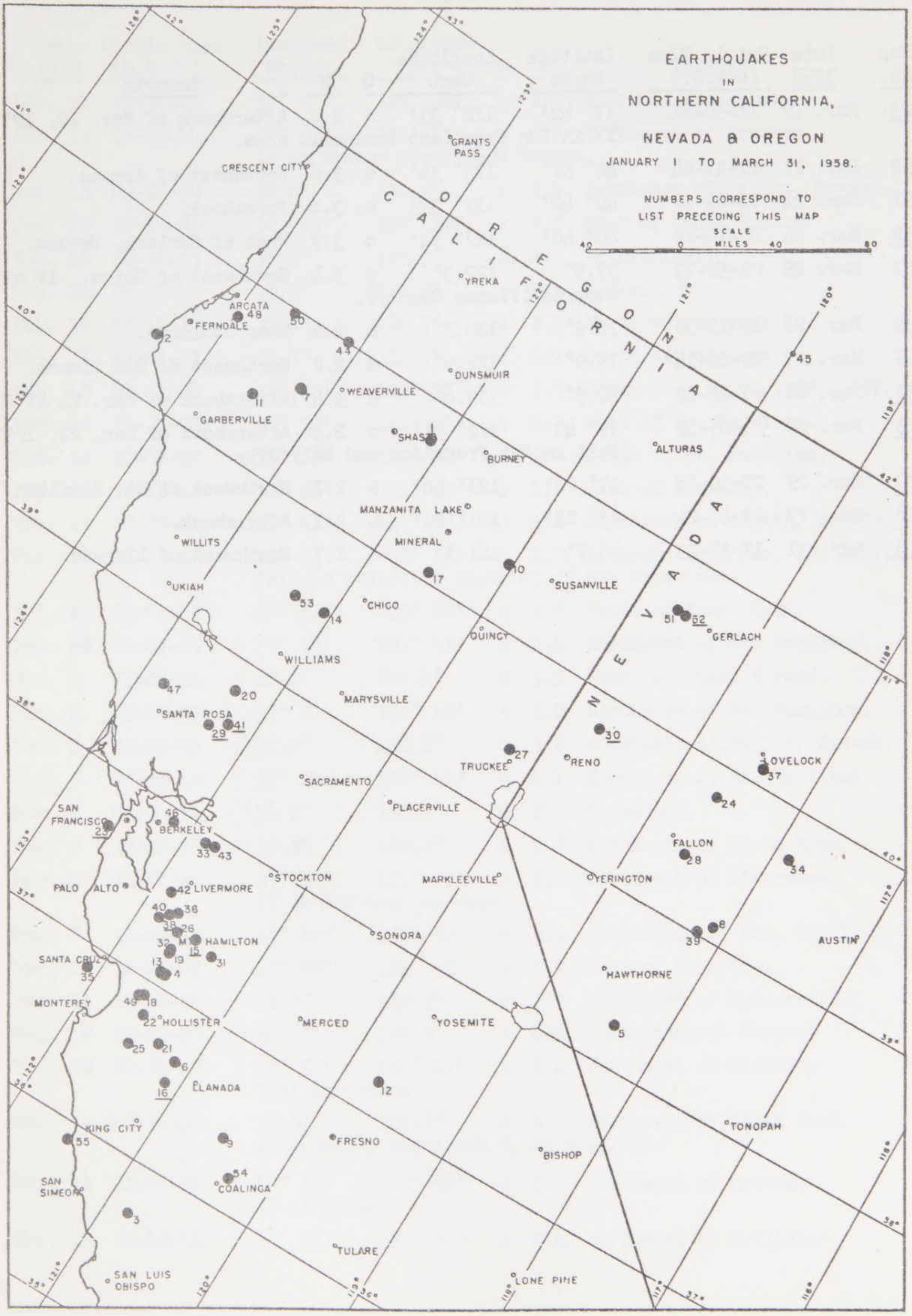
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January-March 1958

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Jan. 1	04-14-44	40.8°	122.1°	d	3.4	Northeast of Shasta.
-	Jan. 4	17-27-34	38.9°	115.5°	d	4.5	Southeast of Eureka, Nevada.
2	Jan. 7	09-05-37	40° 23'	124° 24'	b	3.4	Southeast of Ferndale.
3	Jan. 7	17-13-16	35.7°	120.8°	d	3.0	North of San Luis Obispo.
4	Jan. 11	19-46-47	37° 06'	121° 32'	c	2.6	South of Mt. Hamilton.
5	Jan. 13	04-17-27	38° 15'	118° 22'	c	4.2	Southeast of Hawthorne, Nevada.
6	Jan. 18	02-17-28	36° 39'	121° 06'	c	2.9	Northwest of Llanada.
7	Jan. 18	11-48-02	40.6°	123.2°	d	3.3	Southwest of Weaverville.
8	Jan. 18	16-33-35	39.1°	118.1°	d	4.4	Southeast of Fallon, Nevada. Felt at Frenchman's Station, Nevada.
9	Jan. 21	21-22-08	36.4°	120.5°	d	2.9	Northwest of Coalinga.
-	Jan. 22	12-59-31	44.5°	124.2°	d	3	Near the coast of Oregon.
10	Jan. 25	03-39-54	40° 22'	121° 01'	c	3.5	East of Mineral. IV at Caribou (NW Plumas County). Also felt at Hamilton Branch Camp, near Hamilton Branch Powerhouse (Plumas County).
11	Jan. 26	20-05-56	40.4°	123.5°	d	2.9	Northeast of Garberville.
12	Jan. 26	20-22-33	37.2°	119.7°	d	3.4	North of Fresno.
13	Jan. 27	02-24-09	37.1°	121.6°	d	2.4	South of Mt. Hamilton.
14	Jan. 27	15-22-02	39° 30'	122° 03'	c	2.9	Southwest of Chico.
15	Jan. 28	02-51-23	37° 21'	121° 30'	b	2.3	East of Mt. Hamilton.
15	Jan. 28	03-01-01	37° 21'	121° 30'	c	1.7	Aftershock.
16	Jan. 28	07-12-54	36.5°	121.1°	d	2.2	Southwest of Llanada.
17	Jan. 28	09-46-04	40° 04'	121° 31'	c	3.2	South of Mineral.
18	Jan. 29	17-53-18	36.9°	121.6°	d	2.3	West of Hollister.
19	Jan. 31	16-10-32	37° 13'	121° 36'	c	1.7	South of Mt. Hamilton.
20	Feb. 1	07-08-44	38.8°	122.3°	d	3.4	Northeast of Santa Rosa. IV at Calistoga, Hoberg's and Lower Lake.
21	Feb. 4	19-33-46	36.7	121.3	d	3.2	Southeast of Hollister.
22	Feb. 6	00-30-33	36° 48'	121° 32'	c	3.2	Southwest of Hollister. IV at Hollister.
-	Feb. 6	00-56-06	40.5°	126.7°	d	3.9	125 miles west of Ferndale.
23	Feb. 7	03-58-13	37° 41'	122° 33'	b	2.2	Aftershock of Mar. 22, 1957. Felt in San Francisco.
24	Feb. 8	05-04-45	39.8°	118.6°	d	3.5	Northeast of Fallon, Nevada.
25	Feb. 8	23-50-58	36.6°	121.5°	d	2.7	East of Monterey.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
26	Feb. 11	13-58-29	37° 22'	121° 40'	c	2.4	Near Mt. Hamilton.
27	Feb. 12	02-25-44	39° 23'	120° 13'	c	2.7	Northwest of Truckee. IV at Donner Summit and Norden.
28	Feb. 16	03-20-20	39.4°	118.6°	d	3.4	Southeast of Fallon, Nevada.
29	Feb. 16	07-56-36	38° 32'	122° 19'	c	2.7	East of Santa Rosa.
29	Feb. 16	08-26-53	38.5°	122.3°	d	2.3	Aftershock.
29	Feb. 16	08-54-46	38.5°	122.2°	d	2.6	Aftershock.
30	Feb. 17	10-11-10	39.8°	119.7°	d	2.3	Northeast of Reno.
30	Feb. 18	12-03-43	39.8°	119.7°	d	2.9	Northeast of Reno.
23	Feb. 18	21-34-24	37° 42'	122° 32'	b	1.7	Aftershock of Mar. 22, 1957.
31	Feb. 20	06-20-05	37° 20'	121° 19'	b	2.8	East of Mt. Hamilton.
32	Feb. 21	14-08-50	37° 14'	121° 38'	c	2.0	South of Mt. Hamilton.
33	Feb. 22	18-55-45	37° 55'	121° 49'	b	2.6	East of Berkeley.
34	Feb. 23	02-25-01	39° 41'	117° 52'	c	3.8	Northwest of Austin, Nevada.
23	Feb. 23	21-15-12	37° 43'	122° 33'	b	1.7	Aftershock of Mar. 22, 1957. Felt in Ingleside District of San Francisco.
35	Feb. 26	23-03-27	36° 52'	122° 04'	c	1.6	South of Santa Cruz.
36	Feb. 28	11-47-25	37° 28'	121° 43'	b	2.4	Northwest of Mt. Hamilton.
37	Mar. 1	11-29-41	40.1°	118.4°	d	3.3	Near Lovelock, Nevada.
38	Mar. 4	05-19-15	37° 24'	121° 46'	a	2.8	Northwest of Mt. Hamilton.
39	Mar. 5	05-11-56	39.0°	118.2°	d	3.8	Southeast of Fallon, Nevada.
40	Mar. 5	05-31-16	37° 23'	121° 49'	b	2.1	Northwest of Mt. Hamilton.
41	Mar. 5	05-53-32	38.6°	122.2°	d	2.3	Foreshock.
41	Mar. 5	17-10-08	38.6°	122.2°	d	2.6	Northeast of Santa Rosa.
42	Mar. 6	14-58-38	37° 33'	121° 52'	a	2.8	Southwest of Livermore. IV at Mission San Jose.
23	Mar. 6	21-42-52	37° 40'	122° 30'	b	2.4	Aftershock of Mar. 22, 1957.
43	Mar. 9	18-26-09	37° 55'	121° 45'	c	2.9	West of Stockton.
44	Mar. 11	10-48-20	41.0°	123.1°	d	2.7	Northwest of Weaverville.
45	Mar. 12	12-09-16	42.4°	120.0°	d	4.5	South-central Oregon.
46	Mar. 12	22-54-09	37° 55'	122° 09'	b	2.4	Northeast of Berkeley. Felt in Orinda.
47	Mar. 14	06-30-35	38.6°	122.8°	d	2.5	Northwest of Santa Rosa. Aftershock, magnitude 2, at 06-32-48.
48	Mar. 14	14-01-36	40° 46'	123° 58'	c	3.0	Southeast of Arcata. IV at Eureka.
49	Mar. 19	03-46-15	36° 53'	121° 38'	c	2.4	Northwest of Hollister.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
23	Mar. 19	11-58-51	37° 42'	122° 33'	a	2.0	Aftershock of Mar. 22, 1957 IV in San Francisco Peninsula area.
50	Mar. 21	11-33-24	40° 59'	123° 36'	c	3.6	Northeast of Arcata.
51	Mar. 24	00-22-10	40° 40'	119° 39'	c	3.6	Foreshock.
52	Mar. 24	03-10-28	40° 40'	119° 34'	c	3.9	West of Gerlach, Nevada.
53	Mar. 25	02-58-23	39.5°	122.3°	d	3.4	Southwest of Chico. IV at Storrie (Plumas County).
54	Mar. 26	13-12-30	36.2°	120.3°	d	2.4	Near Coalinga.
55	Mar. 27	20-26-14	35.9°	121.5°	d	2.8	Northwest of San Simeon.
52	Mar. 28	07-22-22	40.7°	119.6°	d	3.4	Aftershock of Mar. 24 at 0310.
23	Mar. 28	14-05-39	37° 40'	122° 31'	a	2.3	Aftershock of Mar. 22, 1957. Felt in San Francisco and Daly City.
38	Mar. 29	22-30-26	37° 22'	121° 46'	b	2.2	Northwest of Mt. Hamilton.
38	Mar. 29	22-47-24	37° 22'	121° 46'	b	2.1	Aftershock.
16	Mar. 31	17-38-23	36.5°	121.1°	d	2.7	Southwest of Llanada.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1958.
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
GRANTS PASS
CRESCENT CITY
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PALO ALTO
LIVERMORE
AUSTIN
SONORA
HAWTHORNE
SANTA CRUZ
MONTEREY
HOLLISTER
MERCED
YOSEMITE
ELANADA
TONOPAH
KING CITY
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

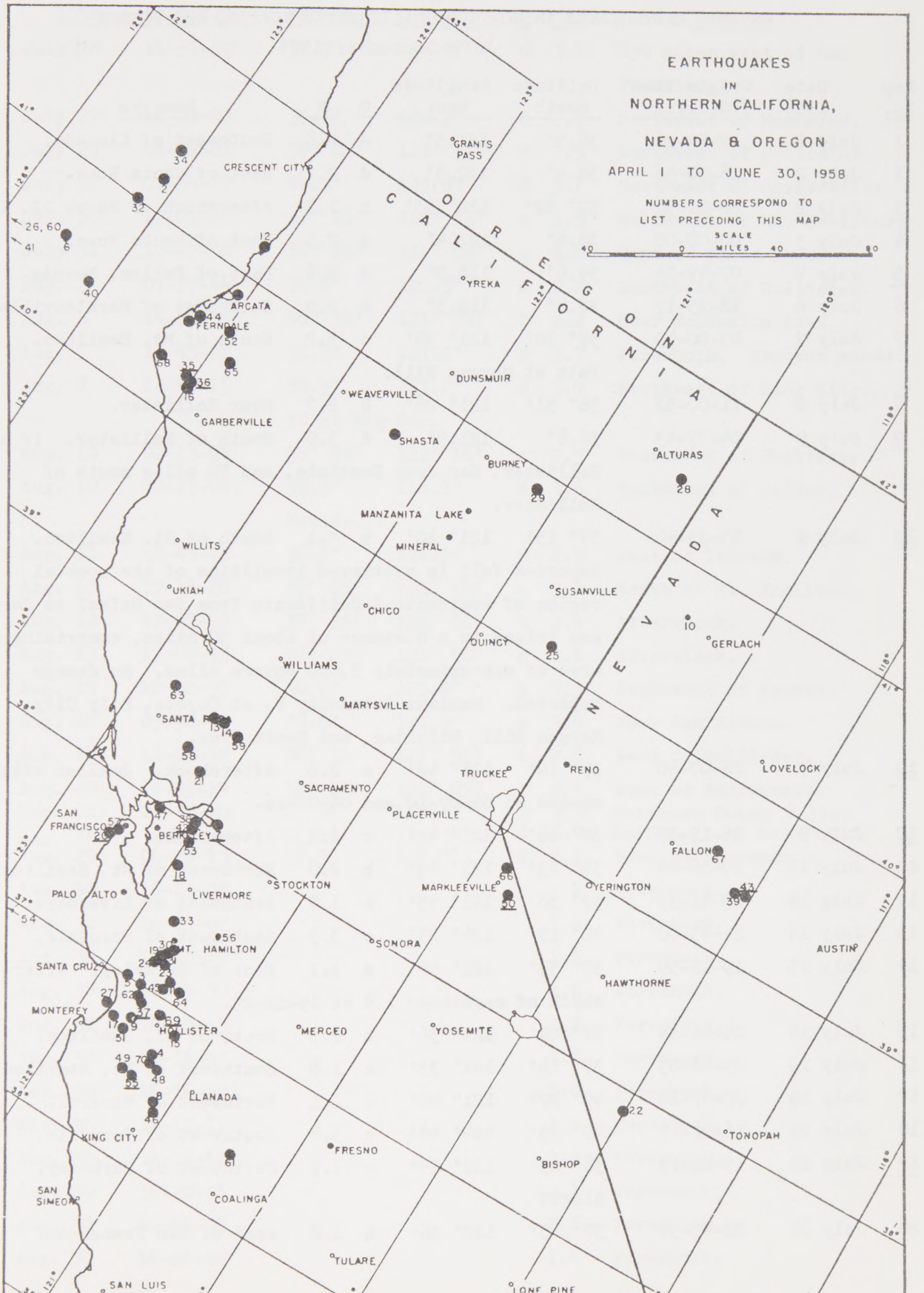
April-June 1958

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
CIT $	Apr. 2	21-54-37	37.82°	118.58°	c	4.2	Near Benton.
2	Apr. 3	00-07-01	41.2°	125.1°	d	3.5	West of Arcata.
3	Apr. 4	01-45-12	37° 00'	121° 41'	c	3.2	Northwest of Hollister.
4	Apr. 4	17-05-48	36° 40'	121° 20'	c	3.9	Southeast of Hollister. IV 7 miles south of Hollister.
5	Apr. 5	04-50-33	37° 00'	121° 49'	c	2.2	East of Santa Cruz.
6	Apr. 8	10-22-13	40° 32'	125° 29'	c	4.4	West of Ferndale.
7	Apr. 10	07-39-14	38.1°	121.9°	d	1.8	Foreshock.
7	Apr. 10	08-28-52	38° 05'	121° 52'	b	2.4	Northeast of Berkeley.
8	Apr. 10	08-32-33	36° 27'	121° 07'	c	2.9	Southwest of Llanada.
9	Apr. 10	12-26-15	36° 49'	121° 35'	c	2.6	West of Hollister.
10	Apr. 10	18-17-53	40.7°	119.6°	d	3.8	West of Gerlach, Nevada.
11	Apr. 15	03-19-05	37.1°	121.5°	d	2.1	Northwest of Hollister.
12	Apr. 16	02-54-03	41.2°	124.1°	d	2.4	North of Arcata.
13	Apr. 20	21-06-58	38° 37'	122° 21'	b	4.0	25 miles northeast of Santa Rosa. Felt at Monticello Dam, west of Winters.
14	Apr. 20	21-16-27	38° 37'	122° 16'	c	2.7	Aftershock. Felt at Monticello Dam.
15	Apr. 21	06-40-26	36° 52'	121° 18'	c	3.6	East of Hollister.
16	Apr. 24	07-24-55	40.2°	124.0°	d	3.5	Northwest of Garberville.
17	Apr. 30	06-36-15	36° 44'	121° 45'	c	3.0	Northeast of Monterey.
18	May 1	03-06-27	37° 45'	121° 57'	b	2.5	Foreshock.
18	May 1	03-13-42	37° 45'	121° 57'	b	2.5	Northwest of Livermore.
19	May 1	03-30-56	37.2°	121.7°	d	2.0	South of Mt. Hamilton.
20	May 2	13-10-47	37° 41'	122° 31'	c	2.1	Aftershock of March 22, 1957. IV in Daly City.
21	May 2	20-49-08	38.3°	122.2°	d	2.2	North of Berkeley.
18	May 3	00-22-00	37° 45'	121° 57'	c	1.4	Aftershock of May 1 at 0313.
22	May 3	17-35-57	37.9°	118.0°	d	4.1	Southwest of Tonopah, Nevada.
20	May 4	07-52-44	37° 40'	122° 30'	a	2.7	Aftershock of Mar. 22, 1957. IV at Daly City.
23	May 4	15-21-58	37° 11'	121° 36'	b	3.6	South of Mt. Hamilton.
24	May 5	01-46-53	37° 12'	121° 41'	c	1.8	South of Mt. Hamilton.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
25	May 5	22-18-20	40.1°	120.4°	d	2.9	Southeast of Susanville.
26	May 5	22-57-39	40.4°	127.8°	d	4.0	Off Cape Mendocino.
27	May 7	04-27-32	36° 48'	121° 50'	c	2.6	Southeast of Santa Cruz.
28	May 7	07-18-53	41.4°	120.2°	d	3.2	East of Alturas.
29	May 7	15-31-43	40.9°	121.2°	d	3.0	East of Burney.
30	May 7	16-20-12	37° 17'	121° 36'	b	3.0	Near Mt. Hamilton.
-	May 7	17-28-01	45.1°	122.0°	d	3.4	Southeast of Portland, Oregon.
20	May 8	23-31-20	37° 41'	122° 32'	a	1.5	Aftershock of Mar. 22, 1957.
31	May 16	21-26-39	37° 15'	121° 38'	b	2.2	South of Mt. Hamilton.
32	May 18	04-58-44	41.0°	125.2°	d	2.8	West of Arcata.
33	May 19	02-13-32	37° 27'	121° 43'	a	2.6	Northwest of Mt. Hamilton. Aftershock (M = 1.6) at 04-32-41.
34	May 24	18-43-02	41.4°	125.1°	d	3.2	Northwest of Arcata.
35	May 24	23-04-47	40° 18'	124° 03'	a	4.9	Southeast of Ferndale. Felt over a land area of approximately 3,500 square miles of northwestern California, principally in Humboldt County. VI at Briceland, Carlotta, Ferndale, Garberville, Honeydew, Miranda, and Petrolia.
35	May 24	23-08-20				3.7	Aftershock.
35	May 24	23-18-14				2.0	Aftershock.
35	May 24	23-23-10				2.3	Aftershock.
35	May 24	23-35-10				2.0	Aftershock.
35	May 25	03-12-48				2.7	Aftershock.
36	May 25	05-06-32	40° 17'	123° 59'	b	3.9	Aftershock. III at Eureka. Also felt at Hydesville and Scotia.
36	May 25	07-18-42				3.1	Aftershock.
36	May 25	12-31-29				2.8	Aftershock.
36	May 25	12-47-27				2.5	Aftershock.
37	May 27	23-09-32	36.9°	121.6°	d	3.8	Northwest of Hollister. Felt over an area of approximately 150 square miles of the region east of Santa Cruz, from Aptos to San Martin. V at San Martin.
37	May 28	03-59-10	36.9°	121.6°	d	3.0	Aftershock.
38	May 28	05-45-29	38° 00'	122° 01'	c	2.8	Northeast of Berkeley.
39	May 28	15-16-50	39.4°	118.1°	d	4.1	East of Fallon, Nevada.
40	May 31	02-49-03	40.4°	125.1°	d	2.5	Southwest of Ferndale.
41	May 31	15-55-59	40.3°	126.6°	d	3.9	Off Cape Mendocino.
CIT	May 31	21-17-40	37.55°	118.75°	c	3.7	North-northwest of Bishop.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
42	May 31	22-07-11	37° 58'	122° 00'	a	4.1	Northeast of Berkeley, near Concord. Felt over a land area of 1,500 square miles of the San Francisco Bay region, principally in Contra Costa County. V at Danville, Orinda, Port Costa, Rodeo, and Walnut Creek.
42	May 31	22-17-59	37° 58'	122° 00'	b	2.3	Aftershock.
42	May 31	22-25-55	37° 58'	122° 00'	c	1.9	Aftershock.
42	May 31	23-20-53	37° 58'	122° 00'	b	3.0	Aftershock.
42	June 1	05-11-39	37° 59'	122° 01'	b	3.0	Aftershock. Felt at Canyon.
42	June 1	09-37-56	37° 59'	122° 01'	c	2.0	Aftershock.
43	June 1	16-40-24	39.4°	118.0°	d	3.7	Foreshock.
43	June 1	16-50-25	39° 25'	118° 03'	c	3.9	East of Fallon, Nevada.
44	June 3	09-15-42	40.6°	124.2°	d	2.8	Near Ferndale.
45	June 3	14-43-59	37° 03'	121° 31'	b	3.3	Northwest of Hollister.
-	June 5	11-05-04	42.8°	126.5°	d		Off Cape Blanco, Oregon.
46	June 5	17-12-50	36.4°	121.1°	d	3.1	North of King City.
47	June 6	14-40-29	37° 58'	122° 18'	c	2.0	North of Berkeley.
48	June 7	19-35-32	36.6°	121.2°	d	2.7	Southeast of Hollister.
49	June 8	16-15-45	36° 31'	121° 28'	c	3.0	South of Hollister.
50	June 9	10-59-25	38° 40'	119° 40'	c	3.4	Foreshock.
50	June 9	11-59-56	38° 40'	119° 40'	b	3.9	Near Markleeville.
51	June 10	21-09-42	36° 43'	121° 38'	c	3.1	Northeast of Monterey. III at Moss Landing.
43	June 11	06-06-05	39° 26'	118° 01'	c	3.4	East of Fallon, Nevada.
52	June 11	16-25-36	40° 39'	123° 59'	c	3.6	Northeast of Ferndale. III in north section of Eureka.
53	June 15	11-49-56	37° 55'	121° 59'	b	2.3	East of Berkeley.
54	June 17	19-16-56	36° 58'	123° 04'	c	2.4	West of Santa Cruz.
55	June 18	07-02-58	36° 30'	121° 23'	c	2.9	Foreshock.
55	June 18	07-05-34	36° 30'	121° 23'	c	3.3	South of Hollister.
56	June 18	20-42-22	37° 31'	121° 24'	c	2.4	Northeast of Mt. Hamilton.
57	June 18	22-54-03	37° 43'	122° 30'	b	1.4	Near Lake Merced, San Francisco. Felt in Portola District of San Francisco.
58	June 19	18-43-20	38.4°	122.4°	d	2.0	East of Santa Rosa.
59	June 20	16-59-35	38.6°	122.1°	d	2.4	West of Sacramento.
60	June 20	17-39-50	40.5°	126.4°	d	3.4	Off Cape Mendocino.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
61	June 21	01-03-31	36.4°	120.4°	d	2.1	Southwest of Fresno.
62	June 21	14-34-57	36° 56'	121° 40'	b	2.6	Northwest of Hollister.
63	June 22	06-21-02	38° 39'	122° 44'	c	3.2	North of Santa Rosa. Felt sharply at Healdsburg. Also felt at Rio Nido.
64	June 24	21-11-01	37° 03'	121° 23'	c	2.5	North of Hollister.
65	June 27	05-51-59	40.5°	123.8°	d	2.8	East of Ferndale.
66	June 29	01-25-18	38° 49'	119° 46'	b	3.3	North of Markleeville.
67	June 29	08-37-12	39° 33'	118° 25'	c	3.7	East of Fallon, Nevada.
68	June 29	15-29-24	40.3°	124.3°	d	2.6	South of Ferndale.
69	June 29	21-14-01	36° 53'	121° 25'	b	3.1	Near Hollister. IV at Hollister.
69	June 29	21-50-32	36° 53'	121° 25'	c	3.0	Aftershock.
70	June 30	01-48-41	36° 36'	121° 17'	c	3.0	Southeast of Hollister.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1958
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
GRANTS PASS
CRESCENT CITY
ARCATA
FERNDALE
EUREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PLANADA
KING CITY
TONOPAH
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
SAN LUIS
LONE PINE

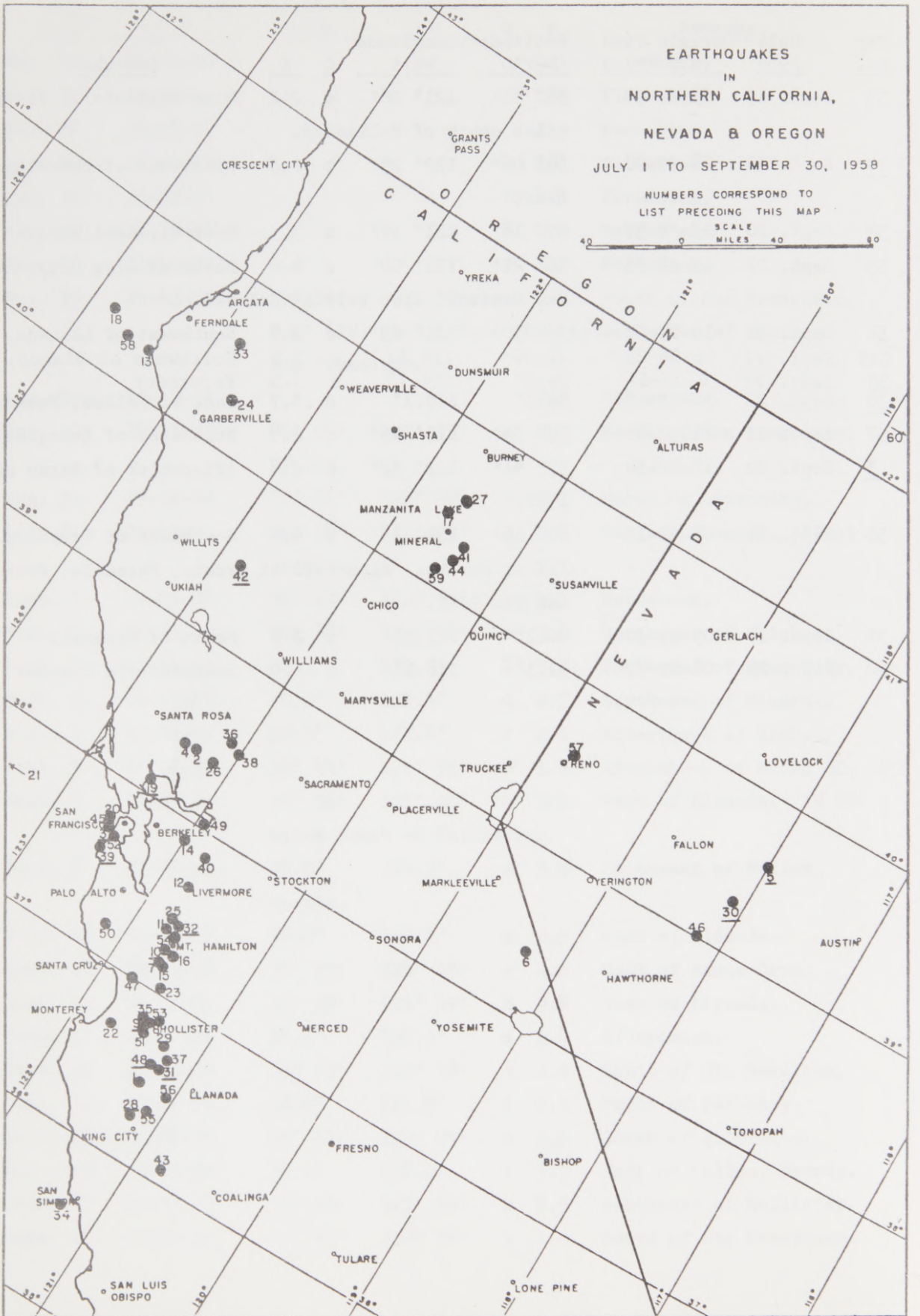
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
July-September 1958

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	July 2	17-54-26	36.5°	121.3°	d	2.8	Southwest of Llanada.
2	July 2	18-30-56	38.4°	122.3°	d	2.1	East of Santa Rosa.
3	July 2	20-01-31	37° 42'	122° 33'	c	1.9	Aftershock of March 22, 1957.
4	July 3	00-08-00	38.4°	122.4°	d	2.5	East of Santa Rosa.
5	July 4	07-49-54	39.6°	118.0°	d	3.6	East of Fallon, Nevada.
6	July 6	18-25-17	38.4°	119.3°	d	2.9	Southeast of Markleeville.
7	July 7	09-00-49	37° 10'	121° 39'	c	3.2	South of Mt. Hamilton. Felt at Morgan Hill.
8	July 8	11-00-52	36° 51'	121° 26'	b	2.7	Near Hollister.
9	July 9	04-37-43	36.8°	121.5°	d	3.0	South of Hollister. IV at Hollister, San Juan Bautista, and 7½ miles south of Hollister.
10	July 9	05-23-40	37° 15'	121° 40'	b	4.1	South of Mt. Hamilton. Reported felt in scattered localities of the coastal region of westcentral California from San Rafael to Carmel and inland to a distance of about 30 miles, comprising an area of approximately 3,000 square miles. No damage reported. Maximum intensity V, at Coyote, Holy City, Morgan Hill, Milpitas, and Santa Cruz.
10	July 9	06-07-40	37° 16'	121° 42'	c	2.6	Aftershock. Smaller aftershocks at 06-07-10 and 06-07-26.
10	July 9	06-12-37	37° 16'	121° 42'	c	2.2	Aftershock.
11	July 13	20-56-24	37° 23'	121° 45'	b	2.0	Northwest of Mt. Hamilton.
12	July 14	00-41-33	37° 38'	121° 45'	a	1.9	Southeast of Livermore.
13	July 14	21-43-00	40° 17'	124° 23'	c	3.5	Southwest of Ferndale.
14	July 15	19-18-59	37° 53'	121° 59'	a	2.1	East of Berkeley. Aftershock of magnitude 1.4 at 19-52-29.
15	July 18	05-46-54	37° 09'	121° 36'	b	2.5	South of Mt. Hamilton.
16	July 19	09-46-03	37° 14'	121° 33'	c	1.8	Southeast of Mt. Hamilton.
17	July 19	20-47-24	40° 27'	121° 40'	c	2.1	Northwest of Mineral.
18	July 21	16-12-17	40° 23'	124° 48'	c	3.8	Southwest of Ferndale.
19	July 22	19-02-29	38° 05'	122° 29'	c	1.9	Northwest of Berkeley. Blast?
20	July 24	22-49-34	37° 45'	122° 36'	b	1.8	West of San Francisco.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
21	July 26	11-51-57	37.7°	124.9°	d	3.1	130 miles west of San Francisco.
22	July 27	18-29-42	36.7°	121.7°	d	2.7	Northeast of Monterey.
23	July 29	08-27-01	37° 02'	121° 31'	c	2.5	Northwest of Hollister.
24	July 30	07-34-17	40.3°	123.6°	d	3.1	Northeast of Garberville.
25	July 30	19-01-20	37° 26'	121° 43'	c	2.5	Northwest of Mt. Hamilton.
26	July 31	17-47-50	38° 23'	122° 09'	c	1.8	East of Santa Rosa.
9	Aug. 3	07-17-44	36.8°	121.5°	d	2.2	Southwest of Hollister.
27	Aug. 3	14-16-36	40° 34'	121° 34'	b	2.2	Near Manzanita Lake.
28	Aug. 8	13-43-01	36.3°	121.2°	d	2.7	Foreshock. Records mixed.
28	Aug. 8	13-43-15	36.3°	121.2°	d	3.9	Northwest of King City.
			IV at Big Sur.				
29	Aug. 10	02-13-04	36° 46'	121° 16'	c	2.5	Southeast of Hollister.
30	Aug. 10	20-23-04	39.3°	118.1°	d	3.6	Southeast of Fallon, Nevada.
31	Aug. 11	18-43-43	36.6°	121.2°	d	2.3	West of Llanada.
32	Aug. 13	17-18-26	37° 25'	121° 40'	a	3.1	North of Mt. Hamilton.
32	Aug. 13	17-27-17	37° 25'	121° 40'	b	2.4	Aftershock.
32	Aug. 13	17-46-53	37° 25'	121° 40'	a	2.8	Aftershock.
33	Aug. 15	10-52-35	40.6°	123.8°	d	3.3	Southeast of Arcata.
34	Aug. 18	05-30-42	35.6°	121.3°	d	3.4	Near San Simeon.
35	Aug. 18	18-01-39	36° 52'	121° 31'	b	2.8	West of Hollister.
36	Aug. 20	12-03-19	38° 33'	122° 07'	c	2.3	West of Sacramento.
CIT	Aug. 22	23-42-02	37.58°	118.47°	c	4.0	Northern Owens Valley
37	Aug. 26	16-29-04	36.7°	121.2°	d	2.9	Southeast of Hollister
38	Aug. 29	06-23-15	38.5°	122.0°	d	2.1	West of Sacramento.
39	Aug. 30	16-13-53				1.6	Foreshock.
39	Aug. 30	16-15-07				1.6	Foreshock.
39	Aug. 30	16-15-19				1.6	Foreshock.
39	Aug. 30	16-15-30				1.6	Foreshock.
39	Aug. 30	16-16-13				1.2	Foreshock.
39	Aug. 30	16-16-35				1.8	Foreshock.
39	Aug. 30	16-16-37				2.0	Foreshock.
39	Aug. 30	16-17-11				1.6	Foreshock.
39	Aug. 30	16-19-42				1.2	Foreshock.
39	Aug. 30	16-20-38				2.1	Foreshock.
39	Aug. 30	16-21-09				2.6	Foreshock.
39	Aug. 30	16-21-49				1.4	Foreshock.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
39	Aug. 30	16-22-00				2.1	Foreshock.
39	Aug. 30	16-27-53				1.5	Foreshock.
39	Aug. 30	16-28-28				2.9	Foreshock.
39	Aug. 30	16-31-16				1.8	Foreshock.
39	Aug. 30	16-32-18				1.7	Foreshock.
39	Aug. 30	16-37-56				1.0	Foreshock.
39	Aug. 30	16-40-27				2.2	Foreshock.
39	Aug. 30	16-43-54.9	37° 34'	122° 30'	a	3.2	South of San Francisco. Felt (IV) in San Mateo County and parts of western San Francisco.
39	Aug. 30	16-47-53				2.5	Aftershock.
19	Aug. 30	18-41-48	38° 04'	122° 29'	a	2.1	North of San Francisco. Blast?
40	Aug. 31	09-52-40	37° 51'	121° 47'	b	2.3	North of Livermore.
41	Aug. 31	21-49-22	40° 18'	121° 24'	c	2.8	East of Mineral. II at Storie.
42	Sept. 1	10-09-01	39° 28'	122° 48'	c	2.1	Foreshock.
42	Sept. 1	11-01-52	39° 28'	122° 48'	b	3.8	Northeast of Ukiah.
43	Sept. 1	11-31-42	36.1°	120.8°	d	3.2	Southeast of King City.
44	Sept. 1	19-45-48	40.2°	121.4°	d	2.7	Southeast of Mineral.
42	Sept. 1	20-06-49	39.5°	122.8°	d	2.1	Aftershock of 1101.
45	Sept. 4	19-16-30	37° 44'	122° 33'	b	1.6	Aftershock of March 22, 1957
31	Sept. 5	18-29-32	36° 36'	121° 13'	b	3.3	West of Llanada. IV 7½ miles south of Hollister.
46	Sept. 8	07-31-11	39.0°	118.2°	d	3.6	Southeast of Fallon, Nevada.
31	Sept. 10	05-28-02	36.6°	121.2°	d	2.5	West of Llanada.
47	Sept. 11	05-59-48	37° 00'	121° 45'	c	2.6	East of Santa Cruz.
48	Sept. 11	20-46-03	36° 37'	121° 19'	b	2.8	West of Llanada.
48	Sept. 11	21-51-26	36.6°	121.3°	d	2.4	Aftershock.
10	Sept. 11	23-49-16	37° 13'	121° 38'	a	2.0	South of Mt. Hamilton.
49	Sept. 12	21-29-39	38.0°	121.9°	d	2.1	North of Berkeley.
50	Sept. 13	19-04-00	37° 11'	122° 09'	b	2.8	South of Palo Alto.
5	Sept. 16	23-26-37	39.6°	118.0°	d	3.5	East of Fallon, Nevada.
51	Sept. 17	20-34-52	36° 45'	121° 29'	b	2.5	Southwest of Hollister.
52	Sept. 18	22-56-54	37° 41'	122° 28'	b	1.3	South of San Francisco.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
53	Sept. 19	03-27-50	36° 51'	121° 28'	c	2.2	Near Hollister. IV 7½ miles south of Hollister.
19	Sept. 20	18-39-08	38° 06'	122° 29'	b	2.2	Northwest of Berkeley. Blast?
54	Sept. 20	23-37-57	37° 18'	121° 37'	a	3.3	Near Mt. Hamilton.
55	Sept. 21	07-24-55	36° 21'	121° 07'	c	4.6	North of King City. VI at San Benito. Also felt at Soledad.
56	Sept. 21	14-23-01	36° 30'	121° 03'	c	2.7	Southwest of Llanada.
CIT	Sept. 22	06-06-25	37.58°	118.47°	c	3.3	Northwest of Bishop.
30	Sept. 22	10-20-42	39.3°	118.1°	d	3.5	Foreshock
30	Sept. 22	10-25-40	39.3°	118.1°	d	3.7	East of Fallon, Nevada.
57	Sept. 22	11-32-46	39° 35'	119° 45'	c	2.7	Northeast of Reno, Nevada.
3	Sept. 22	18-42-54	37° 41'	122° 32'	a	2.4	Aftershock of March 22, 1957.
58	Sept. 23	03-50-15	40° 16'	124° 35'	b	4.4	Southwest of Ferndale. III at Eureka. Also felt at Arcata, Ferndale, Fortuna, and Rio Dell.
59	Sept. 23	05-29-30	40.1°	121.5°	d	2.8	South of Mineral.
60	Sept. 29	08-53-37	42.3°	118.1°	d	4.0	Southeastern Oregon.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO SEPTEMBER 30, 1958
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
GRANTS PASS
CRESCENT CITY
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
WILLITS
MINERAL
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
LIVERMORE
PALO ALTO
SONORA
MT. HAMILTON
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
LLANADA
KING CITY
TONOPAH
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

October-December 1958

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Oct. 1	21-42-11	39° 34'	120° 18'	b	4.6	West of Reno. Felt over an area of approximately 5,000 square miles of northeastern California and western Nevada. Maximum intensity VI at Hallelujah Junction (20 miles northwest of Reno), where chimneys were reported cracked. V at Blue Canyon, Chilcoot, Grouse Ridge Lookout, Sierraville, and Vinton, California, and at Reno, Nevada.
2	Oct. 4	03-16-11	36.6°	121.6°	d	2.4	Southwest of Hollister.
-	Oct. 7	16-09-41	44°	127.5°	d		Off coast of Oregon.
-	Oct. 7	20-11-06	44°	127.5°			Aftershock.
3	Oct. 10	13-05-16	35° 56'	120° 30'	b	4.5	Southwest of Coalinga. Felt over an area of approximately 3,500 square miles of the southwest-central region of California. Appears to have been more strongly felt at Parkfield than elsewhere. V at Adelaida, Camp Roberts, Coalinga, Harmony, Lone Pine Inn, Oilfield, Parkfield, Paso Robles, and San Ardo.
4	Oct. 14	10-48-08	37° 15'	122° 18'	c	2.2	Southwest of Palo Alto.
5	Oct. 15	02-30-40	37° 27'	121° 48'	c	2.1	Northwest of Mt. Hamilton.
6	Oct. 15	16-16-44	35.6°	121.2°	d	3.2	Near San Simeon.
7	Oct. 16	13-22-18	36° 39'	121° 15'	c	2.4	Southeast of Hollister.
8	Oct. 17	00-33-17	38° 00'	122° 27'	b	2.5	Northwest of Berkeley. Blast?
9	Oct. 17	06-31-53	39.2°	118.1°	d	3.0	Southeast of Fallon, Nevada.
10	Oct. 18	17-57-23	38° 08'	122° 27'	b	2.2	Northwest of Berkeley. Blast?
11	Oct. 22	00-58-59	37° 44'	122° 06'	b	1.9	Foreshock.
11	Oct. 22	02-04-04	37° 44'	122° 06'	a	2.1	Southeast of Berkeley.
12	Oct. 23	05-01-42	40.8°	125.8°	d	3.5	West of Arcata.
13	Oct. 23	07-26-41	40° 17'	124° 18'	c	2.9	South of Ferndale.
11	Oct. 23	13-48-10	37° 44'	122° 06'	b	1.5	Aftershock of Oct. 22 at 0204.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
14	Oct. 24	02-59-24	40.4°	121.6°	d	3.0	North of Mineral.
15	Oct. 29	00-19-08	36.7°	121.4°	d	2.2	South of Hollister.
16	Oct. 29	12-17-02	40° 22'	124° 12'	c	2.5	South of Ferndale.
17	Oct. 29	14-10-59	37° 44'	121° 47'	c	2.2	Near Livermore.
18	Oct. 31	00-26-14	37° 29'	121° 47'	a	4.2	Southwest of Livermore. Reported felt in scattered localities over a land area of approximately 1,500 square miles, principally in southwest Alameda County and along the east shore areas of the San Francisco peninsula. Maximum intensity VI at Milpitas, where a water main was reported cracked. V at Berkeley, Brisbane, Moffett Field, Mount Eden, Niles and San Carlos.
18	Oct. 31	17-53-30	37° 28'	121° 48'	c	2.5	Aftershock.
19	Oct. 31	23-55-02	38.4°	122.2°	d	2.3	East of Santa Rosa.
20	Nov. 3	00-32-14	40.6°	122.0°	d	2.5	Between Mineral and Shasta.
21	Nov. 6	20-11-57	36° 05'	120° 53'	c	3.1	Southeast of King City.
22	Nov. 7	03-21-20	40.6°	124.1°	d	2.4	East of Ferndale.
23	Nov. 7	21-33-24	36° 52'	121° 53'	b	4.3	Monterey Bay, southeast of Santa Cruz. IV at Moss Landing, San Jose, and Santa Cruz.
24	Nov. 8	07-43-51	36° 59'	121° 47'	b	2.4	East of Santa Cruz.
25	Nov. 8	07-50-28	36° 57'	121° 43'	c	2.5	East of Santa Cruz.
26	Nov. 8	13-17-39	37° 20'	122° 17'	a	2.7	Southwest of Palo Alto.
27	Nov. 8	20-23-12	37° 00'	121° 51'	b	2.4	East of Santa Cruz.
28	Nov. 9	08-09-58	37° 23'	121° 42'	b	2.9	Northwest of Mt. Hamilton.
29	Nov. 9	21-40-05	39.3°	118.6°	d	3.3	Southeast of Fallon, Nevada.
30	Nov. 9	23-09-06	36.8°	121.7°	d	2.0	Northeast of Monterey.
31	Nov. 10	16-44-11	38.4°	118.4°	d	3.8	Southeast of Hawthorne, Nevada.
32	Nov. 10	19-18-41	36.9°	121.5°	d	2.5	Near Hollister.
33	Nov. 11	02-35-27	37° 37'	121° 40'	b	1.8	Southeast of Livermore.
34	Nov. 11	14-11-47	36° 40'	121° 31'	b	3.1	West of Hollister.
35	Nov. 12	04-05-22	40° 16'	125° 30'	c	3.9	Southwest of Ferndale.
36	Nov. 16	05-56-33	37.4°	121.8°	d	2.4	Northwest of Mt. Hamilton.

Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
37	Nov. 16	12-24-30	37.0°	121.8°	d	2.6	East of Santa Cruz.
38	Nov. 16	16-07-35	39° 05'	123° 01'	b	2.8	Southeast of Ukiah.
39	Nov. 19	11-14-57	37° 43'	122°36'	c	1.4	Southwest of San Francisco.
40	Nov. 24	07-43-56	37° 20'	121° 40'	b	2.5	Near Mt. Hamilton.
41	Nov. 24	15-21-48	40° 22'	125° 17'	c	3.5	Off Cape Mendocino.
42	Nov. 25	13-19-16	40° 35'	123° 26'	c	2.9	East of Ferndale.
43	Nov. 26	03-30-27	37° 03'	121° 30'	c	2.1	Northwest of Hollister.
44	Nov. 26	22-23-26	39.5°	118.1°	d	3.4	East of Fallon, Nevada.
45	Nov. 27	06-04-26	36° 22'	121° 09'	c	3.9	West of Llanada. Felt slightly at Carmel.
46	Nov. 27	06-37-21	41.1°	124.3°	d	3.5	Northwest of Arcata.
47	Nov. 27	13-39-01	36.2°	120.8°	d	3.1	East of King City.
48	Nov. 29	11-40-54	40.4°	123.1°	d	3.1	Southwest of Weaverville.
49	Nov. 30	10-30-47	40.5°	122.0°	d	2.2	West of Manzanita Lake.
50	Dec. 2	00-10-19	38° 03'	122° 11'	c	1.8	Northeast of Berkeley.
51	Dec. 2	05-06-15	40.5°	121.6°	d	3.1	North of Mineral.
52	Dec. 2	17-43-33	40° 15'	124° 41'	c	4.3	Southwest of Ferndale. Felt over a land area of approximately 2,000 square miles. No damage reported. V at Briceland, Carlotta, Ferndale, Fields Landing, Loleta, Pepperwood, and Petrolia.
53	Dec. 3	13-01-46	40.1°	123.2°	d	2.6	East of Garberville.
54	Dec. 3	19-44-37	40.6°	122.2°	d	2.3	Southeast of Shasta.
55	Dec. 8	02-40-56	36.8	121.3°	d	2.4	Southeast of Hollister.
56	Dec. 9	14-55-31	37° 42'	122° 33'	a	2.5	Foreshock of Dec. 11 at 0952. Felt in San Francisco and Daly City.
57	Dec. 10	00-28-04	36.7°	121.1°	d	2.7	Northwest of Llanada.
56	Dec. 10	12-41-03	37° 42'	122° 34'	b	2.2	Foreshock. Felt in Daly City.
56	Dec. 11	09-52-27	37° 42'	122° 34'	a	4.7	Southwest of San Francisco. Felt over a land area of approximately 6,500 square miles. Slight damage occurred, consisting of some cracked plaster, few broken dishes and windows, and slight loss of fallen merchandise. Minor slide occurred

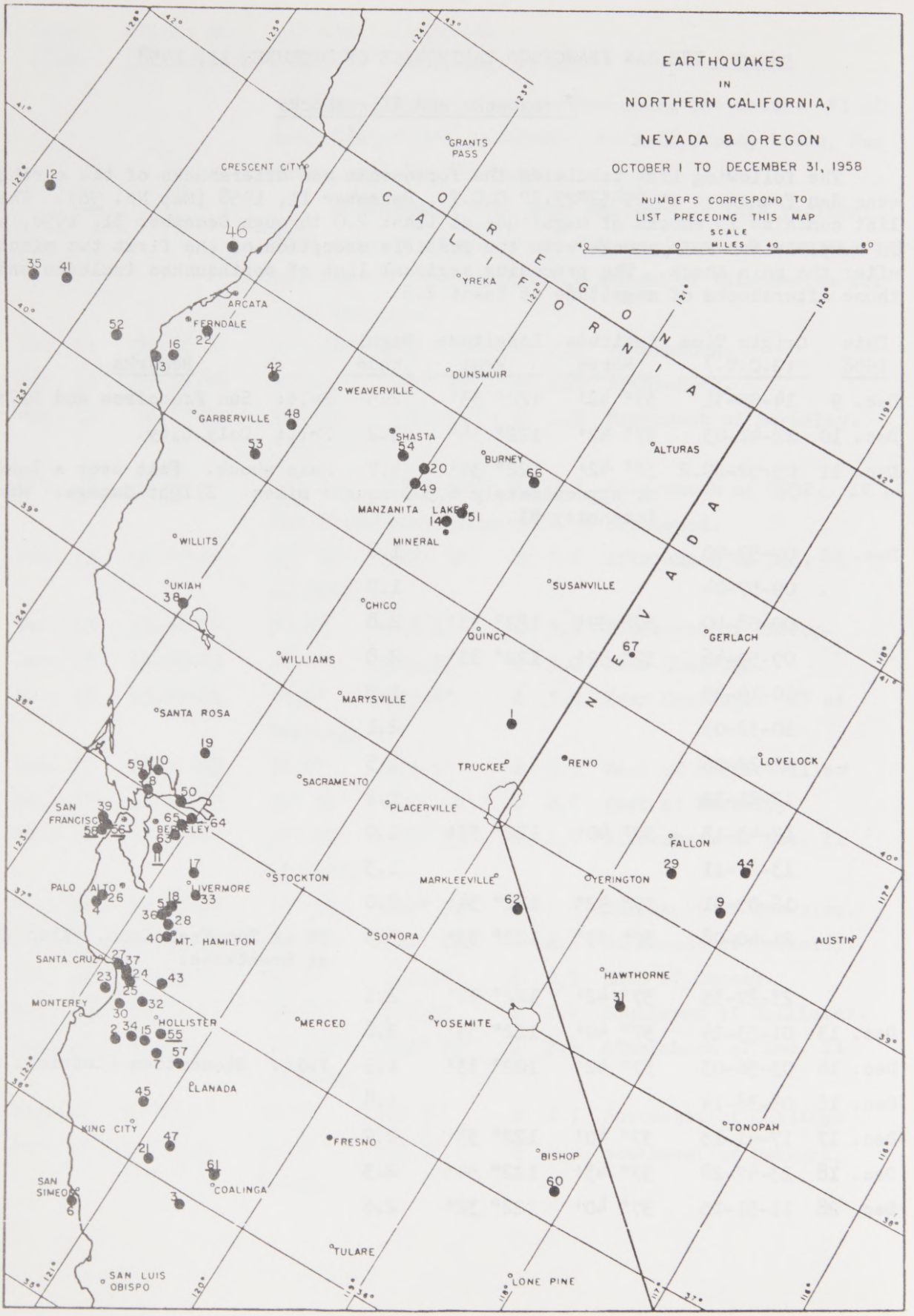
Map No.	Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
			on State Highway 1 which runs along the coast. VI at Daly City, Colma, Lafayette, Moffett Field, Rodeo, San Bruno, and San Francisco. Aftershocks have been included in this regional list only if of magnitude 2.5 or above. A separate tabulation of all identifiable shocks of this series follows this list.				
58	Dec. 11	09-58-50	37° 39'	122° 33'	b	2.8	Aftershock.
58	Dec. 11	09-59-46	37° 39'	122° 33'	b	2.8	Aftershock.
59	Dec. 11	19-57-51	38° 05'	122° 31'	c	1.5	Northwest of Berkeley. Blast?
58	Dec. 11	21-40-08	37° 39'	122° 33'	b	3.3	Aftershock of 0952. IV at San Francisco. Also felt at Brentwood.
58	Dec. 13	01-53-24	37° 40'	122° 33'	b	2.8	Aftershock of Dec. 11 at 0952.
60	Dec. 13	14-48-54	37.2°	118.1°	d	3.4	Southwest of Bishop.
61	Dec. 15	14-58-49	36.2°	120.4°	d	3.0	Near Coalinga.
61	Dec. 15	15-24-01	36.2°	120.4°	d	3.0	Near Coalinga. IV at Coalinga.
62	Dec. 17	08-12-45	38.6°	119.5°	d	3.1	East of Markleeville.
63	Dec. 17	10-22-50	37° 53'	122° 04'	b	2.0	East of Berkeley.
58	Dec. 17	17-41-13	37° 40'	122° 33'	b	2.7	Aftershock of Dec. 11 at 0952.
64	Dec. 18	22-43-39	37° 59'	122° 01'	c	1.6	Northeast of Berkeley.
65	Dec. 19	10-43-13	37° 56'	122° 02'	b	2.1	Northeast of Berkeley.
66	Dec. 22	10-41-50	40.9°	121.2°	d	2.5	East of Burney.
55	Dec. 26	16-32-27	36.8°	121.3°	d	2.4	Southeast of Hollister.
58	Dec. 28	11-51-15	37° 40'	122° 32'	a	2.6	Aftershock of Dec. 11 at 0952.
CIT	Dec. 30	01-34-15	35.92°	119.8°	c	3.2	Southeast of Coalinga
67	Dec. 30	06-15-40	40.3°	119.8°	c	3.0	Southwest of Gerlach, Nevada.

THE SAN FRANCISCO EARTHQUAKE OF DECEMBER 11, 1958

Foreshocks and Aftershocks

The following list tabulates the foreshocks and aftershocks of the earthquake near San Francisco at $09^h52^m27.2^s$ G.C.T., December 11, 1958 (Map No. 56). The list contains 13 shocks of magnitude at least 2.0 through December 31, 1958, and is complete for such shocks with the possible exception of the first two minutes after the main shock. The preceding regional list of earthquakes includes only those aftershocks of magnitude at least 2.5.

Date 1958	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	Remarks
Dec. 9	14-55-31	37° 42'	122° 33'	2.5	Felt: San Francisco and Daly City.
Dec. 10	12-41-03	37° 42'	122° 34'	2.2	Felt: Daly City.
Dec. 11	09-52-27.2	37° 42'	122° 34'	4.7	Main shock. Felt over a land area of approximately 6,500 square miles. Slight damage. Maximum intensity VI.
Dec. 11	09-57-00			1.8	
	09-57-04			1.7	
	09-58-50	37° 39'	122° 33'	2.8	
	09-59-46	37° 39'	122° 33'	2.8	
	10-19-45			1.5	
	10-32-03			2.1	
	11-22-06			1.5	
	12-21-32			1.2	
	12-43-15	37° 40'	122° 33'	1.9	
	13-27-11			1.3	
	16-05-31	37° 42'	122° 34'	2.0	
	21-40-08	37° 39'	122° 33'	3.3	IV at San Francisco. Also felt at Brentwood.
	23-27-35	37° 42'	122° 34'	2.1	
Dec. 13	01-53-24	37° 40'	122° 33'	2.8	
Dec. 14	03-56-03	37° 42'	122° 33'	1.5	Felt: Stonestown District, S.F.
Dec. 16	03-38-14			1.8	
Dec. 17	17-41-13	37° 40'	122° 33'	2.7	
Dec. 18	23-47-28	37° 43'	122° 34'	2.3	
Dec. 28	11-51-15	37° 40'	122° 32'	2.6	


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCTOBER 1 TO DECEMBER 31, 1958
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
LIVERMORE
STOCKTON
MARKLEEVILLE
OYERINGTON
PALO ALTO
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
LLANADA
KING CITY
TONOPAH
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
January-March 1959

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Jan. 2	08-30-24	40.7°	124.6°	d	3.3	Northwest of Ferndale.
2	Jan. 4	17-09-29	39° 51'	121° 57'	c	2.4	Northwest of Chico.
3	Jan. 5	05-15-05	40° 47'	125° 24'	c	4.0	West of Arcata.
4	Jan. 7	19-47-32	36° 40'	121° 09'	c	3.2	West of Llanada.
5	Jan. 11	04-16-45	37.0°	121.8°	d	2.5	East of Santa Cruz.
6	Jan. 11	05-18-26	36.2°	120.8°	d	2.5	West of Coalinga.
7	Jan. 14	05-48-13	37° 41'	122° 34'	b	1.7	Southwest of San Francisco.
			Aftershock of Mar. 22, 1957.				
-	Jan. 15	08-42-09	44°	130°			About 300 miles off coast
			of Oregon. Epicenter and origin time by USCGS.				
8	Jan. 16	09-30-15	37° 26'	121° 45'	c	2.2	Northwest of Mt. Hamilton.
8	Jan. 17	07-23-55	37° 24'	121° 45'	b	2.5	Northwest of Mt. Hamilton.
-	Jan. 18	17-15-03	44°	127½°			About 150 miles off coast
			of Oregon. Epicenter and origin time by USCGS.				
9	Jan. 19	11-32-32	41.3°	120.4°	d	3.7	Southeast of Alturas.
10	Jan. 20	04-18-47	37° 19'	121° 41'	b	1.9	Near Mt. Hamilton.
11	Jan. 21	10-04-27	40° 53'	123° 57'	c	3.2	East of Arcata.
12	Jan. 22	18-38-39	37° 29'	121° 46'	b	1.8	Northwest of Mt. Hamilton
Felt	Jan. 22	23-25-00	37.5°	119.65°	d	-	III reported felt Wawona.
13	Jan. 24	15-20-11	40.8°	121.3°	d	2.6	East of Burney.
14	Jan. 28	12-50-17	37° 31'	121° 47'	a	3.0	Northwest of Mt. Hamilton.
15	Jan. 28	13-54-39	37° 20'	121° 40'	a	2.7	Near Mt. Hamilton.
			Aftershock, magnitude 1.9, at 14-28-17.				
16	Jan. 28	19-36-22	37° 08'	122° 21'	c	2.5	Northwest of Santa Cruz.
17	Jan. 29	16-41-23	37° 08'	121° 34'	a	4.3	Northwest of Hollister.
			IV at Morgan Hill. Felt by a few persons in				
			San Francisco.				
18	Jan. 30	12-51-48	36° 31'	121° 13'	b	2.7	Southwest of Llanada.
19	Feb. 1	20-40-59	37° 28'	121° 49'	c	1.8	Northwest of Mt. Hamilton.
17	Feb. 2	10-14-25	37° 08'	121° 34'	b	2.8	South of Mt. Hamilton.
20	Feb. 2	11-59-33	37° 45'	122° 07'	b	2.2	Southeast of Berkeley.
			Felt in San Leandro.				

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
22	Feb. 3	19-37-36	37.2°	122.4°	d	1.9	Northwest of Santa Cruz.
-	Feb. 3	23-50-52	43.8°	122.5°	d	3 ±	Explosion near Oakridge, Oregon.
23	Feb. 4	22-15-38	38° 05'	122° 29'	b	2.2	Northwest of Berkeley. Blast?
24	Feb. 7	05-51-02	36.1°	120.8°	d	3.0	Southeast of King City.
25	Feb. 8	02-37-12	41.0°	125.4°	d	3.1	West of Arcata.
26	Feb. 9	23-58-51	36.7°	121.3°	d	2.5	Southeast of Vineyard.
27	Feb. 10	18-03-43	39° 31'	118° 06'	c	4.3	East of Fallon, Nevada.
27	Feb. 10	18-25-36	39.5°	118.1°	d	3.5	Aftershock.
27	Feb. 11	02-46-41	39° 31'	118° 06'	c	3.5	Aftershock.
-	Feb. 13	00-39-17	44.2°	129.0°	d		Off coast of Oregon.
23	Feb. 13	22-23-50	38° 06'	122° 30'	c	2.0	North of San Francisco. Blast?
28	Feb. 14	04-43-39	37° 19'	121° 37'	a	2.2	Near Mt. Hamilton.
29	Feb. 16	03-55-32	41.3°	121.6°	d	3.2	North of Burney.
30	Feb. 17	13-30-56	40°04'	123°00'	c	3.2	West of Red Bluff.
31	Feb. 18	08-04-45	40.4°	124.6°	d	2.9	Off Cape Mendocino.
32	Feb. 18	22-53-29	40° 20'	124° 22'	c	3.3	South of Ferndale.
33	Feb. 19	19-55-19	37° 44'	121° 45'	b	2.0	Northeast of Livermore.
34	Feb. 20	00-53-55	42.7°	125.8°	d	3.4	Off coast of Oregon.
35	Feb. 20	01-21-46	37° 07'	121° 34'	c	2.0	South of Mt. Hamilton.
36	Feb. 22	19-28-30	36.9°	123.1°	d	2.1	West of Santa Cruz.
37	Feb. 25	04-13-03	36° 44'	121° 23'	c	3.7	Near Vineyard. IV at Hollister and 7½ miles south of Hollister. III at Big Sur.
-	Feb. 27	06-13-54	43.7°	127.7°	d		Off coast of Oregon.
38	Feb. 27	13-07-46	37° 05'	121° 54'	c	2.2	Northeast of Santa Cruz.
39	Feb. 27	21-35-01	36° 27'	120° 45'	c	3.1	Southeast of Llanada.
40	Mar. 2	23-27-17	36° 59'	121° 36'	b	5.3	East of Santa Cruz (near Gilroy). Felt over a land area of approximately 8,000 square miles. Maximum intensity VI. Slight damage was reported from several localities, consisting principally of cracked plaster, broken windows, and loss from fallen objects and merchandise. Minor earth

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
							slide occurred on Chittenden Pass Road east of Watsonville, and boulders fell on Hecker Pass Highway between Gilroy and Watsonville. VI at Aromas, Ben Lomond, Boulder Creek, Felton, Freedom, Gilroy, Hollister, Holy City, Madrone, Morgan Hill, New Almaden, San Francisco, San Jose, San Juan Bautista, San Martin, Santa Cruz, and Watsonville. V throughout most of the remainder of the southern part of the San Francisco Bay Area.
							Aftershocks of magnitude 3.0 or above are included in this list. A separate, more complete tabulation of aftershocks appears following this list.
40	Mar. 3	07-23-46	37° 00'	121° 36'	b	4.4	Aftershock. V at Madrone, Morgan Hill, Soquel, and Watsonville.
40	Mar. 3	08-20-06	37° 00'	121° 36'	c	3.1	Aftershock. Felt at Gilroy.
40	Mar. 3	18-32-13	36° 59'	121° 36'	b	4.0	Aftershock. IV at Aptos.
Felt	Mar. 3	09-30-00	37.2°	121.8°	d	-	IV Reported felt at Madrone
40	Mar. 4	06-25-14	37° 00'	121° 36'	c	3.2	Aftershock. III at Aptos.
40	Mar. 4	08-01-43	37° 00'	121° 37'	c	3.8	Aftershock. IV at Aptos.
40	Mar. 4	08-57-28	37° 00'	121° 37'	c	3.0	Aftershock.
41	Mar. 4	14-13-49	37° 54'	121° 51'	b	2.0	North of Livermore.
40	Mar. 4	20-55-06	37° 00'	121° 37'	b	3.5	Aftershock of Mar. 2. IV at Aptos.
40	Mar. 4	21-06-21	37° 00'	121° 36'	b	3.6	Aftershock of Mar. 2. Felt at Aptos.
42	Mar. 5	06-41-38	38° 21'	118° 34'	c	4.2	South of Hawthorne, Nevada.
43	Mar. 6	22-09-22	37° 31'	121° 37'	c	2.3	North of Mt. Hamilton.
44	Mar. 7	13-19-50	36.7°	121.5°	d	2.6	South of Hollister.
45	Mar. 8	19-34-03	37° 43'	122° 34'	c	1.7	Aftershock of Mar. 22, 1957? Coast Guard reports a plate glass window was cracked on this date "around noon" (i.e., around 20h GCT) at the Point Bonita Lighthouse.
46 $	Mar. 9	13-13-50	38° 37'	122° 05'	c	2.4	West of Sacramento.
40	Mar. 10	00-18-40	36° 59'	121° 35'	c	3.5	Aftershock of Mar. 2?

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
47	Mar. 11	02-49-49	39°46'	122°06'	c	3.5	Northwest of Chico.
48	Mar. 11	14-57-51	41.0°	120.2°	d	3.7	Southeast of Alturas.
49	Mar. 11	23-26-47	37° 07'	121° 34'	c	2.5	South of Mt. Hamilton.
50	Mar. 12	08-01-05	36° 35'	121° 12'	c	2.5	West of Llanada.
40	Mar. 12	09-51-08	37° 00'	121° 36'	b	3.3	Aftershock of Mar. 2. IV at Aptos.
51	Mar. 13	02-44-27	35.8°	120.3°	d	2.5	South of Coalinga.
52	Mar. 14	02-43-41	35.7°	121.3°	d	3.6	West of San Simeon.
53	Mar. 15	06-53-28	40.1°	119.2°	d	3.2	South of Gerlach, Nevada.
54	Mar. 16	04-30-15	37° 56'	121° 59'	c	2.3	Northeast of Berkeley.
55	Mar. 16	05-03-49	36° 48'	121° 36'	b	2.8	West of Hollister.
56	Mar. 16	17-36-27	38.8°	116.1°	d	4.1	Northeast of Tonopah, Nevada.
57	Mar. 16	19-38-20	40° 43'	124° 50'	c	3.1	Northwest of Ferndale.
-	Mar. 17	16-19-19	43°	127½°	d		Off coast of Oregon.
58	Mar. 18	14-20-36	38° 39'	118° 30'	b	4.3	Northeast of Hawthorne, Nevada. Felt in Churchill, Lander, and Washoe Counties, Nevada. Aftershock (M = 3.2) at 16-07-53.
59	Mar. 20	05-12-09	36° 29'	121° 10'	b	2.9	Southwest of Llanada.
	Mar. 20	15-41-47	43.8°	126.2°	d		Off coast of Oregon.
60	Mar. 21	16-02-59	41° 00'	121° 28'	c	3.8	Northeast of Burney. IV at Pit River Powerhouse No. 1 (PG&E).
61	Mar. 22	02-57-31	37° 36'	122° 14'	a	1.9	Northwest of Palo Alto.
62	Mar. 22	10-47-28	39.3°	117.9°	d	3.9	Southeast of Fallon, Nevada.
63	Mar. 22	16-10-18	38° 15'	121° 47'	c	2.5	Southwest of Sacramento.
64	Mar. 23	07-10-20	39° 36'	118° 01'	c	6.3	Dixie Valley, Nevada (east-northeast of Fallon). Felt over an area of approximately 50,000 square miles of Nevada and northeastern California. VI (slight plaster cracking) at Frenchman's Station and Carson City, Nevada. V at Austin, Eureka, Fallon, Fernley, Flanigan, Genoa, Gerlach, Golconda, Hawthorne, Hazen, Imlay, Lovelock, Luning, Minden, Palisade, Schurz, Silver Springs, Smith, Steamboat, Stewart, Tungsten,

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
			Virginia City, Wabuska, Wellington, and Yerington, Nevada, and at Coleville, California. Aftershocks of magnitude 4.0 or above are included in this list. A separate, more complete tabulation of aftershocks appears following this list.				
64	Mar. 23	07-13-55				4.4	Aftershock.
27	Mar. 23	11-49-23	39° 32'	118° 07'	c	4.2	Aftershock.
65	Mar. 24	02-21-13	37° 16'	121° 43'	c	4.1	Southwest of Mt. Hamilton. IV at Moss Landing and San Mateo. III at Aptos. Also felt at San Francisco.
66	Mar. 26	05-55-41	39.7°	118.1°	d	3.7	Aftershock of March 23 at 0710.
67	Mar. 27	11-30-33	39.6°	118.1°	d	3.9	Aftershock of March 23 at 0710.
67	Mar. 27	11-59-48	39° 38'	118° 06'	c	4.2	Aftershock of March 23 at 0710.
64	Mar. 27	13-55-21	39° 37'	118° 01'	c	4.0	Aftershock of March 23 at 0710.
68	Mar. 28	16-03-12	38.0°	122.0°	d	2.0	Northeast of Berkeley.
12	Mar. 30	01-08-08	37° 29'	121° 46'	c	1.7	Foreshock.
69	Mar. 30	06-29-08	37° 30'	121° 49'	b	1.9	Northwest of Mt. Hamilton.

THE GILROY EARTHQUAKE OF MARCH 2, 1959

The following list of aftershocks of the earthquake near Gilroy at $23^h27^m17^s$ G.C.T., March 2, 1959 (Map No. 40) includes 25 of magnitude at least 2.0 through March 31, 1959. The tabulation is probably complete for shocks of magnitude above 2¼ with the exception of the first several minutes after the main shock, when seismograms from all nearby stations were hopelessly tangled, and with the possible exception of small shocks which might have occurred immediately after several of the larger aftershocks.

The preceding regional tabulation includes shocks of this series (through March 31, 1959) only if the magnitude was 3.0 or above. For these larger shocks, more detailed information on intensities may be found in the regional list.

Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	M	Remarks
Mar. 2	23-27-17	36° 59'	121° 36'	5.3	Main shock. Focal depth about 30 km.
Mar. 3	04-03-49	37.0°	121.6°	2.6	Felt.
	07-23-46	37° 00'	121° 36'	4.4	Felt.
	08-20-06	37° 00'	121° 36'	3.1	Felt.
	08-22-58	37.0°	121.6°	2.7	Felt.
	18-32-13	36° 59'	121° 36'	4.0	Felt.
	19-59-50	37° 01'	121° 37'	2.8	
Mar. 4	05-29-39	37° 00'	121° 36'	2.7	
	06-03-15	36° 58'	121° 35'	2.7	
	06-25-14	37° 00'	121° 36'	3.2	Felt.
	08-01-43	37° 00'	121° 37'	3.8	Felt.
	08-18-45	37.0°	121.6°	2.7	
	08-57-28	37° 00'	121° 37'	3.0	
	15-28-21	37.0°	121.6°	2.4	
	16-14-42	37° 00'	121° 36'	2.5	
	20-55-06	37° 00'	121° 37'	3.5	Felt.
	21-06-21	37° 00'	121° 36'	3.6	Felt.
Mar. 5	02-05-28	37° 01'	121° 37'	2.4	
	04-21-08	37° 01'	121° 37'	2.3	Felt.
	06-20-25	37.0°	121.6°	2.1	
	12-30-57	37.0°	121.6°	1.9	
	13-38-16	37.0°	121.6°	2.5	
	23-20-06	37.0°	121.6°	2.4	

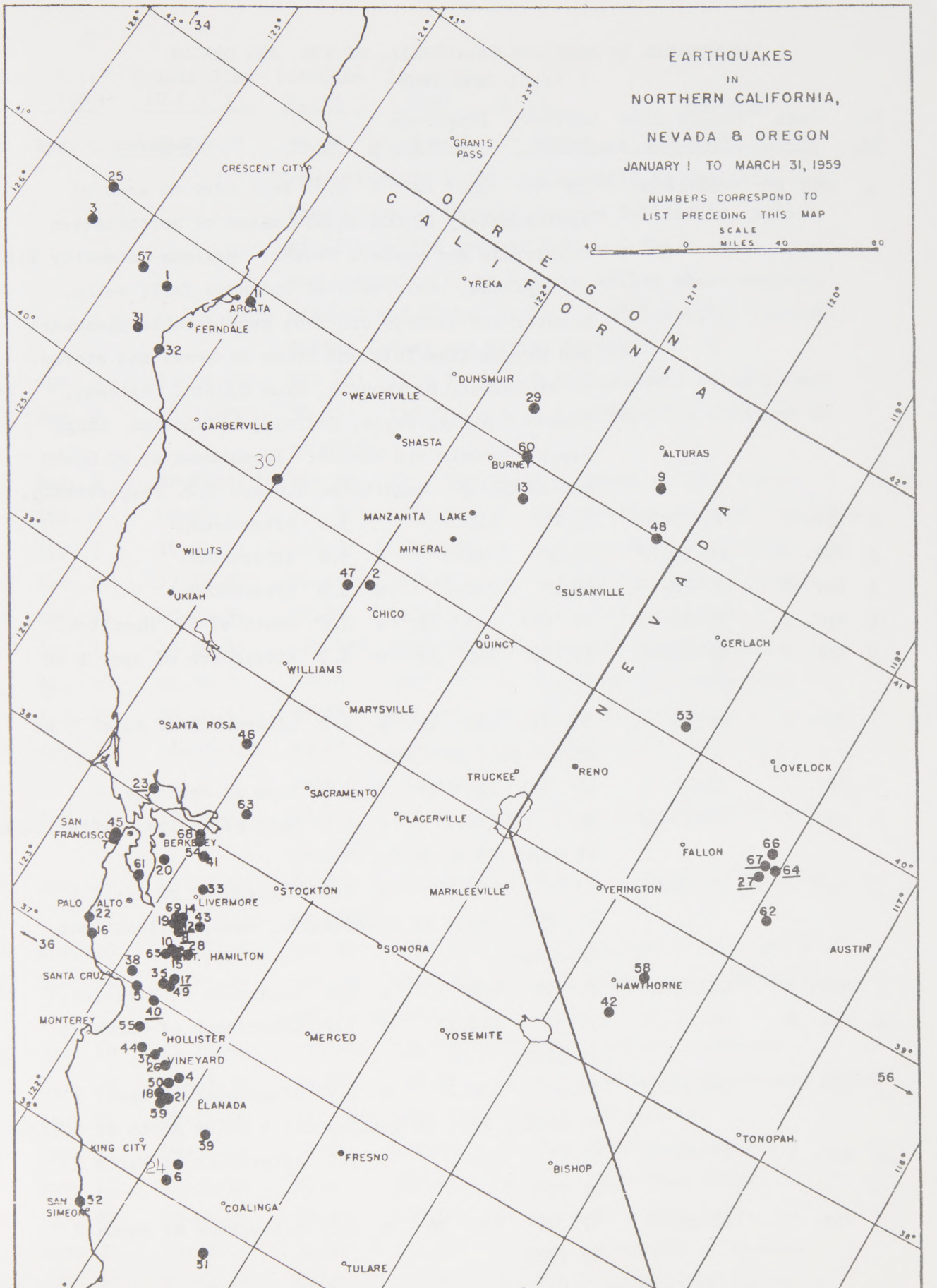
Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	M		Remarks
Mar. 10	00-18-40	36° 59'	121° 35'	3.5		
Mar. 12	09-51-08	37° 00'	121° 36'	3.3	Felt.	
Mar. 12	12-22-09	37° 00'	121° 36'	2.5		
Mar. 17	10-51-07	37.0°	121.6°	2.7		

THE CENTRAL NEVADA EARTHQUAKES OF MARCH 23, 1959

The following list of aftershocks of the earthquake in Dixie Valley, Nevada at $07^h10^m20^s$ G.C.T., March 23, 1959 (Map. No. 64) includes 23 of magnitude at least 3.0 through March 31, 1959. The tabulation is probably complete for shocks of magnitude above 3¼ with the exception of the first several minutes after the main shock.

The preceding regional tabulation includes shocks of this series (through March 31, 1959) only if the magnitude was 4.0 or above.

Date 1959	Origin Time (G.C.T.)	Magnitude
Mar. 23	07-10-20 (Main shock)	6.3
	07-13-55	4.4
	08-21-36	3.2
	08-25-46	3.0
	08-46-02	3.3
	08-58-11	3.4
	11-00-00	3.1
	11-40-26	3.4
	11-49-23	4.2
	13-42-25	3.2
	16-57-32	3.3
	20-53-47	3.3
Mar. 24	03-11-04	3.2
	03-35-32	3.2
	06-03-02	3.3
	19-10-00	3.2
Mar. 25	04-10-18	2.9
	10-37-22	3.3
Mar. 26	05-55-41	3.7
Mar. 27	11-26-11	3.4
	11-30-33	3.9
	11-59-48	4.2
	13-55-21	4.0
Mar. 28	14-20-44	3.2
Mar. 30	01-56-15	3.0


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1959
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
AUSTIN
SONORA
MT. HAMILTON
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VINEYARD
PLANADA
TONOPAH
KING CITY
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

April-June 1959

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Apr. 1	18-18-30	39° 43'	120° 12'	b	5.6	Felt over an area of approximately 25,000 square miles of northeastern California and western Nevada. Maximum intensity VII at Loyalton, where several chimneys fell; walls, plaster and windows cracked; considerable glassware and merchandise fell and broke in homes and stores. VI at Baxter, Beckwourth, Blue Canyon, Chilcoot, Crescent Mills, Doyle, Hallelujah Junction, Kings Beach, Portola and Vinton. Foreshocks at 17-05-49 and 18-02-12. Magnitudes 2.0 and 2.2, respectively.
1	Apr. 1	18-27-37	39.7°	120.1°		3.1	Aftershock.
1	Apr. 1	20-57-27	39.7°	120.1°	d	3.0	Aftershock.
1	Apr. 1	21-28-16	39.7°	120.2°	d	3.5	Aftershock.
2	Apr. 2	02-22-05	37° 06'	121° 33'	c	2.6	South of Mt. Hamilton.
3	Apr. 2	02-51-11	39° 47'	120° 10'	c	3.3	Aftershock of Apr. 1 at 1818.
4	Apr. 2	04-33-44	36° 59'	121° 35'	b	3.1	Aftershock of March 2 at 2327. Felt at Aptos.
5	Apr. 2	23-47-33	40° 30'	124° 53'	c	3.9	West of Ferndale.
6	Apr. 3	04-32-22	39.6°	118.1°	d	3.1	East of Fallon. Aftershock of March 23 at 0710.
3	Apr. 3	17-12-00	39.8°	120.2°	d	3.7	Aftershock of April 1 at 1818. Felt in Sierraville, Reno, Chilcoot and Loyalton.
7	Apr. 4	03-21-17	37° 50'	122° 10'	b	2.0	Southeast of Berkeley.
8	Apr. 4	06-11-22	39.5°	118.1°	d	3.7	Aftershock of March 23 at 0710.
3	Apr. 4	09-00-13	39.7°	120.2°	d	2.7	Aftershock of April 1 at 1818. Felt at Sattley and 4 miles north of Sattley.
78	Apr. 4	21-04-56	39.5°	118.0°		3.1	Aftershock of March 23 at 0710.
9	Apr. 4	22-27-49	37° 00'	121° 36'	c	2.5	Aftershock of March 2 at 2327.

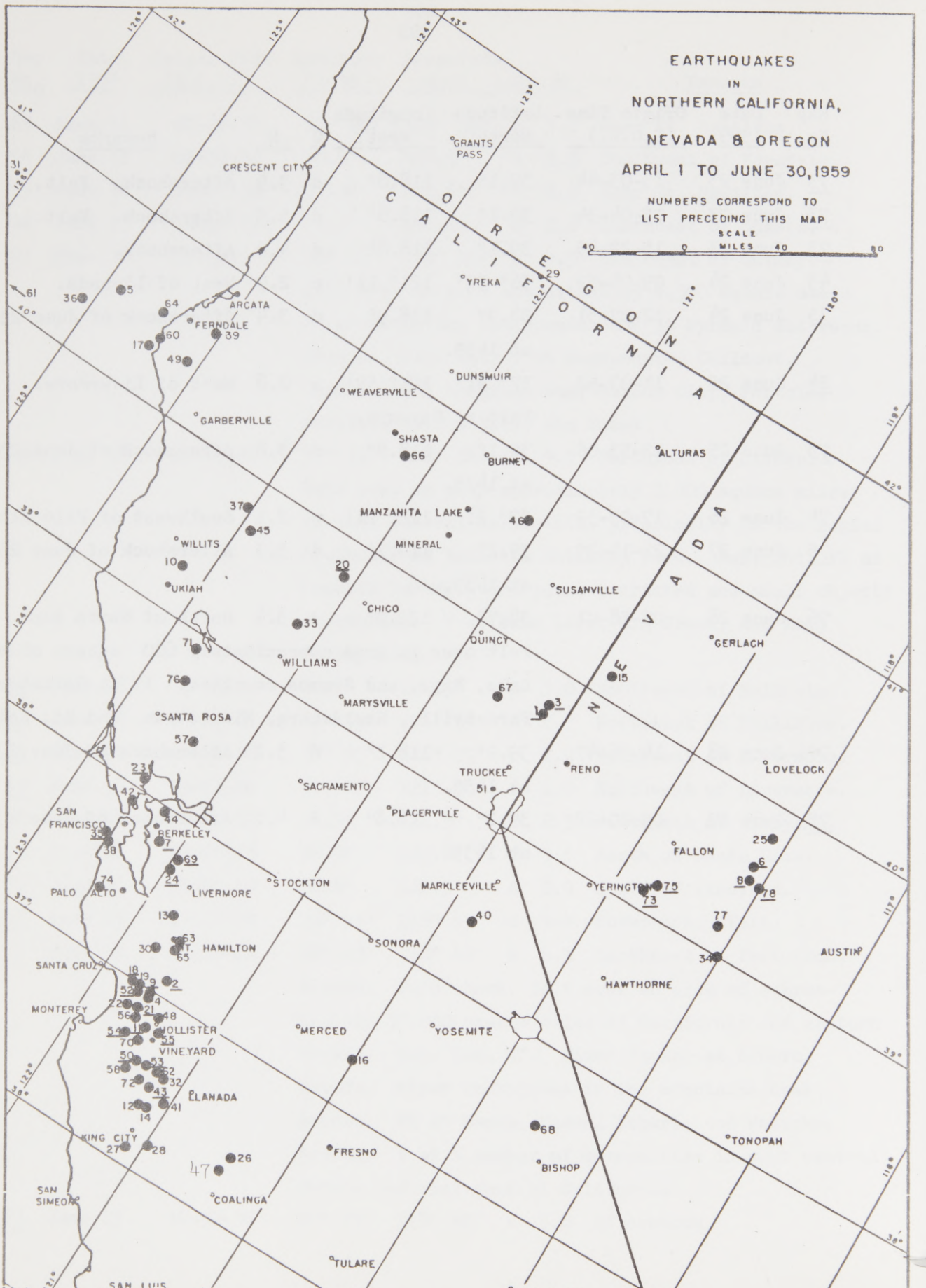
Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
10	Apr. 6	06-08 22	39.3°	123.2°	d	3.6	Felt over an area of approximately 1,200 square miles of Mendocino and Lake counties in northwestern California, principally in the Redwood Valley - Ukiah areas. Maximum intensity VI at Redwood Valley where chimneys cracked and dishes broke. V at Calpella, Lakeport, Potter Valley and Witter Springs.
11	Apr. 6	23-43-37	36° 48'	121° 30'	c	2.2	Southwest of Hollister.
78	Apr. 7	08-23-01	39.5°	118.0°	d	3.3	Aftershock of March 23 at 0710.
12	Apr. 8	07-41-57	36° 22'	121° 12'	b	3.4	North of King City.
13	Apr. 9	09-08-47	37° 28'	121° 48'	b	1.9	Northwest of Mt. Hamilton.
14	Apr. 9	14-03-11	36° 23'	121° 09'	c	2.5	North of King City.
15	Apr. 9	17-16-58	40.1°	119.9°	d	3.1	North of Reno, Nevada.
16	Apr. 11	10-43-34	37.3°	120.0°	d	2.8	East of Merced.
17	Apr. 11	14-04-30	40° 18'	124° 27'	c	3.5	Off Cape Mendocino.
18	Apr. 13	01-30-50	37° 00'	121° 46'	b	2.2	East of Santa Cruz.
19	Apr. 13	08-46-32	37.0°	121.7°	d	2.0	Aftershock.
20	Apr. 13	18-35-21	39.8°	122.1°	d	3.2	Northwest of Chico. Felt near Orland.
9	Apr. 14	19-51-43	37.0°	121.6°	d	2.4	Aftershock of March 2 at 2327.
21	Apr. 15	03-17-53	36.9°	121.6°	d	1.9	Aftershock of March 2 at 2327.
22	Apr. 18	01-46-45	36° 50'	121° 45'	c	2.7	Southeast of Santa Cruz.
23	Apr. 18	18-07-47	38° 04'	122° 31'	c	1.9	Northwest of Berkeley. Quarry blast?
24	Apr. 19	21-10-52	37° 40'	121° 59'	b	2.5	West of Livermore.
25	Apr. 20	12-33-36	39.8°	118.1°	d	4.1	Northeast of Fallon, Nevada.
8	Apr. 21	07-11-04	39° 30'	118° 05'	c	3.4	Aftershock.
26	Apr. 21	09-36-23	36.4°	120.4°	d	3.0	North of Coalinga.
27	Apr. 21	12-31-10	36.1°	121.1°	d	2.2	Near King City.
28	Apr. 22	19-04-25	36.2°	120.9°	d	2.6	Near King City.
CIT	Apr. 24	16-53-10	36.98°	117.97°	c	3.4	Southeast of Bishop.
CIT	Apr. 25	12-16-25	37.05°	118.0°	b	3.6	Southeast of Bishop.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
30	Apr. 25	22-44-20	37° 16'	121° 46'	b	2.2	Near Mt. Hamilton.
31	Apr. 26	04-01-28	40.7°	126.1°	d	3.5	Off Cape Mendocino.
32	Apr. 27	03-18-25	36° 36'	121° 08'	c	3.4	West of Llanada.
21	May 1	07-04-43	36° 51'	121° 39'	b	2.4	West of Hollister.
33	May 2	00-38-14	39.4°	122.2°	d	3.2	North of Williams.
34	May 3	17-38-09	39° 00'	118° 01'	c	3.5	Southeast of Fallon, Nevada.
35	May 4	07-47-15	37.7°	122.6°	d	1.7	Southwest of San Francisco.
35	May 4	07-47-41	37° 42'	122° 32'	b	1.9	Southwest of San Francisco.
Felt	May 4	13-18-00	37.0°	122.0°	d	-	IV reported felt at Mt. Hermon
36	May 4	20-11-32	40° 18'	125° 05'	b	4.0	Off Cape Mendocino.
2	May 6	03-53-26	37.2°	121.5°	d	2.2	Southeast of Mt. Hamilton.
35	May 6	12-37-45	37° 39'	122° 32'	c	1.8	Southwest of San Francisco.
36	May 7	20-32-08	40.3°	125.2°	d	3.8	Off Cape Mendocino.
37	May 9	12-46-04	39° 50'	123° 01'	c	2.7	Southeast of Garberville.
38	May 9	17-26-03	37° 37'	122° 30'	b	3.5	South of San Francisco.
			IV at San Bruno, also felt in San Francisco.				
39	May 11	03-26-40	40.6°	124.1°	d	2.5	East of Ferndale.
21	May 11	14-15-53	36° 55'	121° 38'	b	2.6	Northwest of Hollister.
40	May 12	18-10-33	38.4°	119.8°	d	3.0	South of Markleeville.
41	May 13	14-28-10	36° 29'	121° 02'	c	2.6	Southwest of Llanada.
42	May 14	01-21-15	37° 55'	122° 33'	c	2.2	North of San Francisco.
43	May 14	01-34-09	36.5°	121.2°	d	2.4	Southwest of Llanada.
44	May 14	03-31-08	37° 58'	122° 15'	c	1.9	North of Berkeley.
18	May 14	08-36-22	37° 00'	121° 46'	b	1.7	North of Watsonville.
45	May 18	04-04-13	39° 42'	122° 56'	c	2.9	Northeast of Ukiah.
46	May 19	02-21-06	40.7°	121.1°	d	2.9	Northeast of Mineral.
7	May 20	02-09-13	37° 52'	122° 15'	a	2.4	Near Berkeley.
47	May 20	10-15-55	36.3°	120.4°	d	2.6	Northwest of Coalinga.
8	May 21	17-51-40	39° 28'	118° 07'	c	4.8	East of Fallon, Nevada.
48	May 23	03-49-11	36° 53'	121° 28'	c	2.6	Near Hollister.
6	May 23	12-48-59	39.6°	118.1°	d	3.7	East of Fallon, Nevada.
49	May 23	20-45-44	40° 21'	124° 06'	c	2.7	South of Ferndale.
50	May 24	06-59-08	36° 35'	121° 25'	b	3.2	South of Vineyard.
50	May 24	12-12-19	36° 35'	121° 25'	b	3.2	Aftershock.
50	May 24	12-14-53	36° 36'	121° 26'	b	3.1	Aftershock.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
50	May 24	12-16-10	36° 36'	121° 26'	c	3.1	Aftershock.
51	May 24	15-53-08	39.2°	120.2°	d	3.1	Southwest of Reno.
50	May 24	16-01-21	36° 35'	121° 25'	b	3.2	Aftershock of 0659.
50	May 24	16-33-33	36° 36'	121° 26'	c	2.8	Aftershock of 0659.
50	May 24	20-03-32	36° 36'	121° 26'	c	2.0	Aftershock of 0659.
52	May 25	10-32-12	36° 58'	121° 43'	b	1.7	East of Santa Cruz.
11	May 25	10-51-41	36° 47'	121° 32'	b	3.0	Foreshock.
11	May 25	10-54-15	36° 49'	121° 31'	b	3.0	Foreshock.
11	May 25	13-35-48	36° 47'	121° 32'	b	3.1	Southwest of Hollister. IV at Hollister and Salinas.
53	May 26	01-19-16	36° 37'	121° 19'	c	2.4	South of Vineyard.
50	May 26	14-39-48	36° 38'	121° 28'	c	2.0	Southwest of Vineyard.
54	May 26	15-58-01	36° 43'	121° 37'	c	4.6	West of Hollister. Felt over an area approximately 4,500 square miles of the coastal area of west-central California, max. int. VI at Camp McCallum, Hollister, and Salinas.
54	May 26	22-03-32	36° 40'	121° 37'	c	2.4	Aftershock.
54	May 27	19-08-53	36° 42'	121° 38'	c	2.4	Aftershock.
55	May 27	21-41-21	36.8°	121.4°	d	2.1	Near Vineyard.
56	May 28	04-15-55	36.8°	121.6°	d	2.1	West of Hollister.
23	May 28	19-11-23	38° 03'	122° 31'	b	2.0	Northwest of Berkeley. Felt in San Francisco.
53	May 30	12-42-07	36.6°	121.3°	d	2.6	Southeast of Vineyard.
55	May 31	05-02-06	36.8°	121.4°	d	2.1	Near Vineyard.
43	June 1	03-47-24	36° 30'	121° 14'	c	2.4	Southwest of Llanada.
57	June 1	08-11-34	38° 25'	122° 23'	c	2.1	East of Santa Rosa.
58	June 2	01-42-29	36° 31'	121° 27'	b	3.2	South of Vineyard.
59	June 2	18-49-00	43.7°	119.7°	d	4.7	Central Oregon.
20	June 3	04-26-11	39° 51'	122° 05'	c	3.0	Northwest of Chico.
60	June 4	22-02-18	40.4°	124.4°	d	2.7	Southwest of Ferndale.
11	June 6	04-25-35	36° 47'	121° 27'	c	2.3	Southwest of Hollister.
61	June 6	07-46-35	40.1°	126.9°	d	4.3	Off Cape Mendocino.
CIT	June 6	16-30-46	37.33°	118.63°	c	4.0	Near Bishop
62	June 8	10-23-38	36° 37'	121° 14'	c	3.6	Southeast of Vineyard.
7	June 10	07-53-28	37° 53'	122° 11'	b	2.0	East of Berkeley.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
63	June 11	01-28-58	37° 20'	121° 39'	a	3.7	Near Mt. Hamilton.
64	June 11	06-38-32	40.5°	124.5°	d	3.3	Southwest of Ferndale.
65	June 12	14-00-32	37.3°	121.6°	d	1.9	Near Mt. Hamilton.
66	June 13	14-19-59	40.6°	122.2°	d	2.8	Southeast of Shasta.
67	June 14	01-26-32	39° 40'	120° 33'	b	4.5	Southeast of Quincy. Felt over an area approximately 4,500 square miles of northeastern California, and at Pyramid and Verdi, Nevada. Max. int. V at Beckwourth, Chilcoot, Downieville, Emigrant Gap, Nevada City, Portola, Sattley, Sierra City, and Sloat.
68	June 18	00-29-40	37° 33'	118° 34'	c	4.7	Northwest of Bishop. Felt over an area approximately 3,000 square miles of east-central California, principally in the region southwest of Yosemite National Park. Max. int. VI at Mammoth Lakes, where plaster cracked and small objects overturned. V at Bass Lake, Big Creek, and Long Valley Dam.
11	June 18	10-45-34	36.8°	121.5°	d	3.0	Southwest of Hollister.
52	June 18	14-25-07	36° 55'	121° 39'	c	2.7	Northwest of Hollister.
69	June 19	04-51-58	37° 47'	121° 59'	c	1.9	Northwest of Livermore.
69	June 19	14-54-36	37° 47'	121° 58'	c	1.9	Northwest of Livermore.
70	June 19	22-00-32	36.7°	121.5°	d	2.5	Southwest of Vineyard.
71	June 20	03-37-25	38.9°	122.8°	d	3.0	North of Santa Rosa.
72	June 20	15-01-17	36.5°	121.3°	d	2.9	South of Vineyard.
73	June 23	14-32-35	39° 07'	118° 47'	c	4.4	Foreshock. Felt.
73	June 23	14-35-00	39° 05'	118° 49'	b	6.1	Northeast of Yerington, Nevada. Main shock, felt over an area of approximately 35,000 square miles of California and eastern Nevada. Max. int. VI. Minor damage at Schurz, Nevada. Minor rockslides in the mountains near Schurz. VI at Genoa, Mason, Schurz, and Wabuska, Nevada. V at a number of communities in west central Nevada and east central California.
73	June 23	14-52-36	39° 05'	118° 49'	c	3.8	Aftershock.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
73	June 23	15-03-44	39.1°	118.8°	d	3.9	Aftershock. Felt.
73	June 23	15-04-34	39.1°	118.8°	d	5.5	Aftershock. Felt.
73	June 23	15-22-45	39.1°	118.8°	d	4.2	Aftershock.
43	June 24	09-04-59	36° 32'	121° 11'	c	2.9	West of Llanada.
73	June 24	12-07-31	38.9°	118.9°	d	3.4	Aftershock of June 23 at 1435.
24	June 25	11-03-52	37° 41'	121° 59'	a	2.8	West of Livermore. Felt at Hayward.
73	June 25	12-53-06	39.1°	118.9°	d	3.8	Aftershock of June 23 at 1435.
74	June 26	17-03-32	37° 21'	122° 21'	c	2.1	Southwest of Palo Alto.
75	June 27	21-14-29	39.2°	118.7°	d	3.3	Aftershock of June 23 at 1435.
76	June 28	07-58-01	38.7°	122.7°	d	3.4	North of Santa Rosa. Felt over an area approximately 600 square miles of Lake, Napa, and Sonoma counties. IV at Calistoga, Forestville, Healdsburg, Middletown, and St. Helena.
77	June 28	14-56-47	39.2°	118.1°	d	3.2	Aftershock of June 23 at 1435.
75	June 29	05-20-22	39.2°	118.8°	d	4.1	Aftershock of June 23 at 1435.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1959
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
AUSTIN
SONORA
HAWTHORNE
SANTA CRUZ
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VINEYARD
LLANADA
KING CITY
FRESNO
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

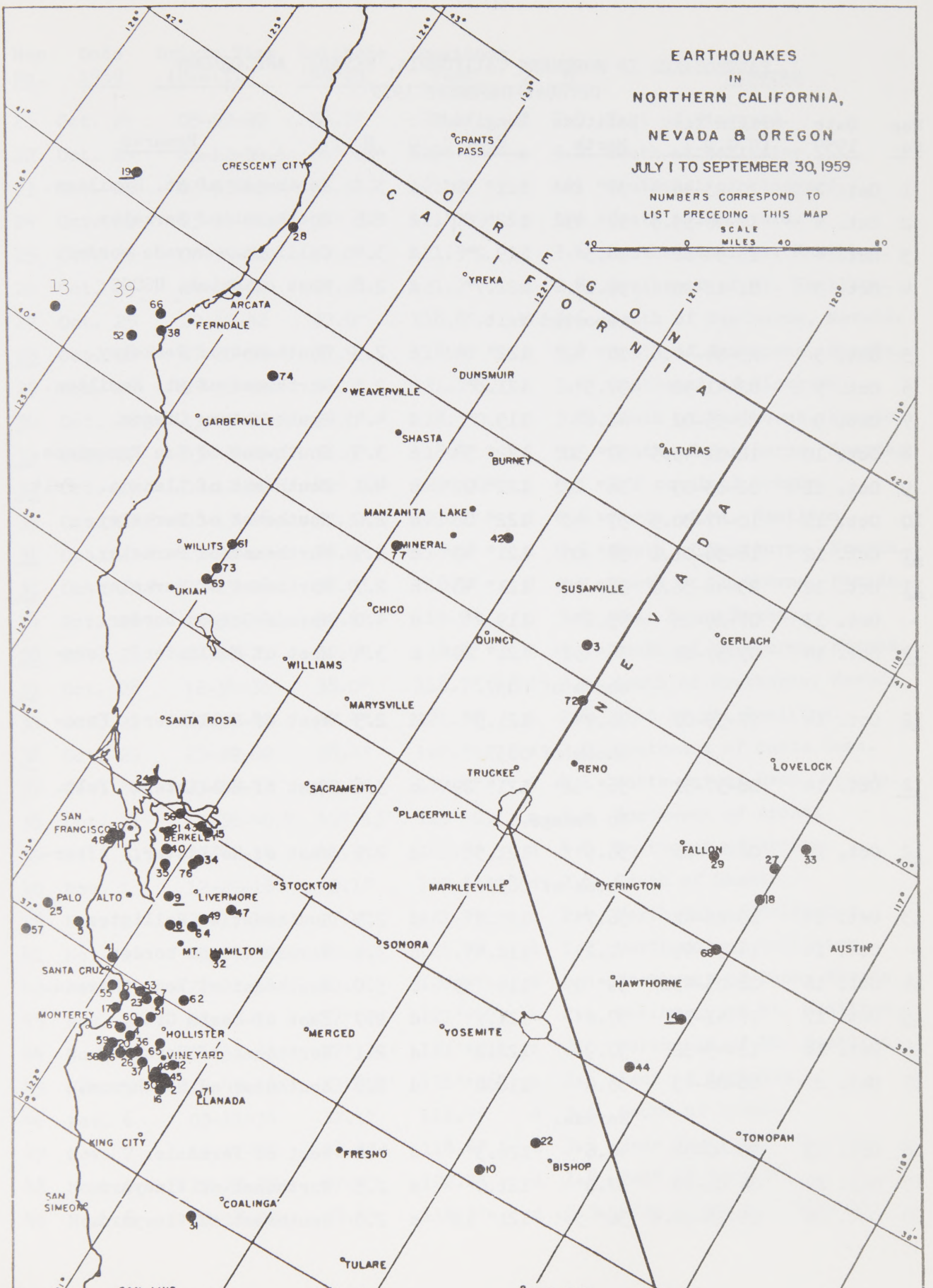
July-September 1959

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	July 2	19-43-59	40.5°	126.9°	d	4.2	Off Cape Mendocino.
-	July 2	19-59-39	40.5°	126.9°	d	4.1	Aftershock.
-	July 2	20-06-41	40.5°	126.9°	d	3.8	Aftershock.
-	July 3	00-32-05	40.5	126.6°	d	3.9	Aftershock.
-	July 3	09-37-46	40.7°	126.2°	d	3.9	Aftershock.
1	July 4	19-24-36	36° 34'	121° 19'	c	3.2	South of Vineyard.
2	July 5	06-25-03	36° 35'	121° 09'	c	2.6	West of Llanada.
3	July 8	09-43-15	40.2°	120.2°	d	2.5	Northwest of Reno.
4	July 8	21-58-58	36.7°	121.6°	d	2.5	Southwest of Vineyard.
5	July 9	00-39-52	37.1°	122.4°	d	1.8	Northwest of Santa Cruz.
			Blast?				
6	July 9	05-44-49	36° 34'	121° 41'	c	2.9	South of Vineyard.
7 $	July 10	02-12-34	36° 59'	121° 34'	b	2.5	Northwest of Hollister.
8	July 11	11-21-04	37° 24'	121° 48'	b	2.2	Northeast of San Jose.
			Felt at San Jose.				
9	July 13	19-47-59	37° 33'	121° 55'	a	3.0	Southwest of Livermore.
9	July 14	00-21-28	37° 33'	121° 55'	c	2.0	Aftershock.
10	July 14	00-48-20	37.1°	118.8°	d	3.2	East of Fresno.
8	July 14	23-30-15	37.4°	121.8°	d	2.1	Northwest of Mt. Hamilton.
11	July 15	03-50-54	37.7°	122.5°	d	1.9	Southwest of San Francisco.
12	July 15	06-25-25	36.7°	121.2°	d	1.6	Southeast of Vineyard.
13	July 15	08-24-26	40° 20'	125° 10'	c	3.8	Off Cape Mendocino.
14	July 16	10-31-45	38.5°	118.0°	d	3.4	Foreshock.
14	July 16	14-06-11	38° 31'	118° 04'	c	3.8	East of Hawthorne, Nevada.
15	July 17	23-29-51	38° 00'	121° 56'	c	2.0	Northeast of Berkeley.
16	July 18	01-11-47	36.5°	121.3°	d	2.5	South of Vineyard.
17	July 18	13-34-35	36.8°	121.8°	d	2.3	Southeast of Santa Cruz.
18	July 19	07-12-10	39.4°	118.0°	d	3.8	East of Fallon, Nevada.
19	July 24	01-23-09	41° 08'	125° 18'	b	5.8	West-northwest of Arcata.
			Felt along the coast of Humboldt and Del Norte counties from Crescent City to Rio Dell. IV at Eureka. No damage was reported.				

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
19	July 24	01-51-15	41.1°	125.3°	d	3.8	Aftershock.
19	July 24	03-35-54	41° 06'	125° 19'	b	4.4	Aftershock.
20	July 24	21-59-26	36.6°	121.6°	d	2.7	Southwest of Vineyard.
21	July 25	06-37-42	37° 52'	122° 13'	a	2.8	Near Berkeley. Felt.
19	July 26	17-00-22	41° 06'	125° 18'	b	3.4	Aftershock of 0123, 7/24.
22	July 29	12-37-56	37° 25'	118° 32'	c	3.8	Northwest of Bishop.
23	July 29	15-21-24	36° 57'	121° 39'	b	2.8	Northwest of Hollister.
24	July 29	21-01-55	38° 05'	122° 30'	c	2.4	NW of Berkeley. Blast?
25	Aug. 1	00-37-21	37° 06'	122° 40'	c	2.1	West of Santa Cruz.
26$	Aug. 1	04-41-03	36° 36'	121° 32'	c	2.0	Southwest of Vineyard.
27	Aug. 2	22-16-40	39° 37'	118° 02'	c	4.4	East of Fallon, Nevada.
28	Aug. 3	10-41-35	41.4°	124.0°	d	3.4	North of Arcata.
29	Aug. 4	05-13-20	39.5°	118.5°	d	ca4.0	East of Fallon, Nevada.
CIT	Aug. 4	07-36-59	37.35	118.55	c	5.2	West of Bishop. Felt over an area of 12,000 sq. mil. VI at Bishop.
CIT	Aug. 4	07-41-33	37.35	118.65	b	4.2	Bishop aftershock.
FELT	Aug. 4	09-55-00	37.6	122.5	d	-	IV reported felt at Pacifica.
30	Aug. 4	18-50-54	37° 41'	122° 32'	d	2.2	Southwest of San Francisco.
CIT	Aug. 4	19-12-35	37.47	118.65	c	4.0	Bishop aftershock (V).
31	Aug. 5	03-00-34	35° 57'	120° 29'	c	3.5	Southwest of Coalinga.
32	Aug. 7	19-01-41	37.4°	121.4°	d	2.7	East of Mt. Hamilton.
33	Aug. 10	08-52-48	39.8°	117.9°	d	3.2	East of Fallon, Nevada.
34	Aug. 10	09-14-52	37° 50'	121° 52'	c	1.5	East of Berkeley.
35	Aug. 12	10-00-29	37° 42'	122° 05'	b	2.0	Southeast of Berkeley.
36	Aug. 14	21-58-49	36° 39'	121° 39'	c	2.6	Southwest of Hollister.
37	Aug. 15	22-58-31	36.6°	121.4°	d	2.4	South of Vineyard.
38	Aug. 20	03-48-56	40° 16'	124° 25'	c	4.2	Southwest of Ferndale.
			Felt Eel River valley, particularly in Rio Dell.				
-	Aug. 21	00-28-17	44.8°	124.7°	d	4.6	Off coast of Oregon.
39	Aug. 21	10-55-11	40.4°	124.8°	d	3.2	Southwest of Ferndale.
40	Aug. 24	15-19-36	37° 47'	122° 08'	b	2.1	Southeast of Berkeley.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
41	Aug. 24	17-00-33	37° 03'	122° 03'	c	2.7	North of Santa Cruz.
42	Aug. 26	09-56-46	40.5°	121.2°	d	3.1	East of Manzanita Lake.
43	Aug. 27	22-14-46	38° 00'	122° 00'	b	2.1	Northeast of Berkeley.
44	Aug. 28	01-52-38	38.1°	118.2°	d	4.3	Southeast of Hawthorne, Nevada.
-	Aug. 28	12-36-17	40.2°	126.7°	d	3.9	Off coast of Northern California.
45	Aug. 29	02-04-18	36.6°	121.2°	d	2.4	Southeast of Vineyard.
46	Aug. 29	03-59-19	36° 36'	121° 18'	c	3.0	Near Hollister.
47	Aug. 30	22-43-50	37° 41'	121° 28'	c	2.4	South of Tracy.
48	Aug. 31	03-44-23	37° 39'	122° 33'	c	2.7	Southwest of San Francisco.
49	Aug. 31	10-43-58	37° 32'	121° 36'	b	2.0	Northeast of Mt. Hamilton.
50	Aug. 31	23-50-36	36° 34'	121° 16'	c	2.8	South of Hollister.
51	Sept. 1	05-00-24	36° 52'	121° 33'	c	3.2	Northwest of Vineyard.
52	Sept. 1	19-38-15	40.3°	124.6°	d	3.7	Southwest of Ferndale.
53	Sept. 3	12-11-20	36° 59'	121° 42'	c	2.6	North of Watsonville. Felt.
54	Sept. 3	12-13-18	36.9°	121.8°	d	2.3	Near Watsonville.
55	Sept. 3	14-28-29	36.9°	121.9°	d	2.6	Near Watsonville.
56	Sept. 3	14-55-21	38.0°	122.2°	d	2.3	Northeast of Berkeley.
57	Sept. 5	00-45-08	36.9°	122.7°	d	2.0	West of Santa Cruz.
58	Sept. 5	05-45-34	36.5°	121.7°	d	3.8	Southwest of Vineyard.
59	Sept. 5	06-09-08	36° 36'	121° 41'	c	2.9	Southwest of Vineyard.
-	Sept. 5	08-14-29	40.3°	127.5°	d	4.5	Off coast west of Arcata.
60	Sept. 5	17-20-13	36.8°	121.6°	d	2.9	West of Vineyard.
61	Sept. 6	00-24-21	39° 34'	123° 00'	c	3.0	Northeast of Willits.
62	Sept. 6	16-28-31	37° 03'	121° 24'	c	3.1	North of Vineyard.
53	Sept. 7	07-53-23	36° 58'	121° 43'	c	2.1	Northeast of Watsonville.
64	Sept. 7	18-51-34	37° 28'	121° 39'	c	2.2	North of Mt. Hamilton.
CIT	Sept. 10	18-22-08	37.57°	118.93°	d	3.5	Northwest of Bishop.
65	Sept. 11	18-05-03	36.7°	121.3°	d	4.0	Southeast of Vineyard.
66	Sept. 11	22-02-34	40.5°	124.5°	d	3.1	Southwest of Ferndale.
67	Sept. 12	11-23-48	36.7°	121.7°	d	2.3	West of Vineyard.
68	Sept. 15	06-35-18	39.0°	118.1°	d	3.1	Southeast of Fallon, Nevada.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
53	Sept. 18	02-45-02	36° 56'	121° 44'	c	2.4	Near Watsonville.
71	Sept. 20	15-18-55	36.6°	120.9°	d	3.2	Southeast of Vineyard.
-	Sept. 20	23-26-45	40° 07'	126° 07'	c	4.4	Off coast southwest of Arcata.
72	Sept. 24	04-22-25	39.9°	120.0°	d	ca 3.0	Northwest of Reno, Nevada.
73	Sept. 24	17-02-09	39.4°	123.0°	d	3.6	Northeast of Ukiah. Felt at Willits VI, but no major damage.
24	Sept. 24	22-41-40	38° 05'	122° 31'	b	2.4	Northwest of Berkeley.
-	Sept. 26	08-20-48	43.7°	128.3°	d	6.1	Off Oregon coast.
74	Sept. 27	15-03-54	40° 34'	123° 29'	c	3.0	Southeast of Arcata.
-	Sept. 28	01-50-32	42° 02'	126° 42'	c	4.1	Off coast of Oregon.
53	Sept. 28	12-38-42	36° 57'	121° 42'	c	2.7	Near Watsonville.
76	Sept. 29	00-29-11	37.8°	121.9°	d	2.5	Southeast of Berkeley.
77	Sept. 30	10-21-36	40.1°	121.9°	d	2.5	Southwest of Mineral.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO SEPTEMBER 30, 1959
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
WILLITS
MINERAL
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VINEYARD
LLANADA
KING CITY
FRESNO
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

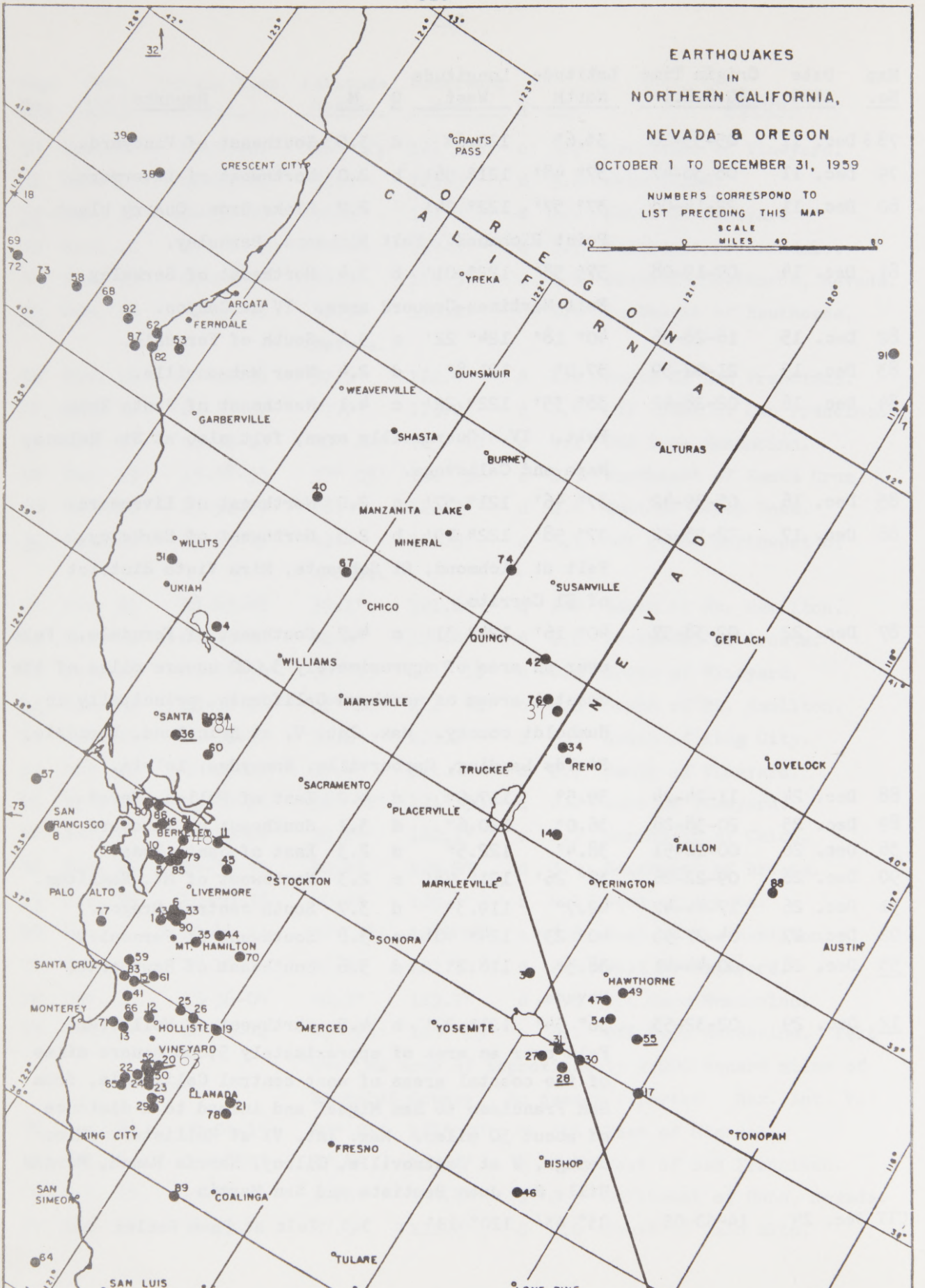
October-December 1959

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Oct. 2	20-23-46.4	37° 24'	121° 50'	c	3.2	Northwest of Mt. Hamilton.
2	Oct. 4	12-50-55.3	37° 45'	122° 00'	c	2.6	Southeast of Berkeley.
3	Oct. 4	15-34-12	38.3°	119.2°	d	3.4	California-Nevada border.
4	Oct. 5	01-12-20	39.1°	122.7°	d	2.8	East of Ukiah, USCGS: reported felt.
5	Oct. 5	23-54-44.6	37° 42'	122° 04'	c	2.5	Southeast of Berkeley.
6	Oct. 7	02-41-32	37.5°	121.8°	d	2.5	Northwest of Mt. Hamilton.
7	Oct. 9	22-55-02	42.6°	119.0°	d	4.4	Southeastern Oregon.
8	Oct. 10	12-01-45.5	37° 30'	122° 54'	c	3.3	Southwest of San Francisco.
9	Oct. 11	02-03-09	36° 27'	121° 07'	c	4.1	Southwest of Llanada. Felt.
10	Oct. 11	10-47-30.5	37° 43'	122° 08'	c	2.0	Southeast of Berkeley.
11	Oct. 12	16-36-01.1	38° 00'	121° 47'	c	2.9	Northeast of Berkeley.
11	Oct. 12	23-48-33.0	38° 00'	121° 48'	c	2.7	Northeast of Berkeley.
-	Oct. 13	07-29-25	43.2°	119.2°	d	4.0	Nevada-Oregon border.
12	Oct. 14	07-57-01	36° 52'	121° 29'	c	3.4	West of Hollister. Foreshock of 0837.
12	Oct. 14	07-59-01	36.9°	121.5°	d	2.5	West of Hollister. Foreshock of 0837.
12	Oct. 14	08-37-51	36° 52'	121° 29'	c	3.6	West of Hollister. Felt. No damage.
12	Oct. 14	08-46-26	36.9°	121.5°	d	2.9	West of Hollister. Aftershock of 0837.
13	Oct. 14	10-29-42	36.7°	121.6°	d	2.5	Southwest of Hollister.
-	Oct. 14	14-34-49	42.2°	118.4°	d	3.9	Nevada-Oregon border.
14	Oct. 16	08-05-43.7	39° 07'	119° 35'	c	3.0	Southeast of Reno, Nevada.
15	Oct. 17	07-41-38	37.0°	121.7°	d	2.7	East of Santa Cruz.
16	Oct. 18	13-45-32	37.9°	122.2°	d	2.1	Northeast of Berkeley.
17	Oct. 21	00-06-45	38.0°	118.0°	d	3.8	Southeast of Hawthrone, Nevada.
18	Oct. 23	20-40-38	40.6°	126.3°	d	4.4	West of Ferndale.
19	Oct. 24	04 01-13	37.0°	121.0°	d	2.5	Northeast of Vineyard.
20	Oct. 24	05-24-36.4	36° 38'	121° 13'	c	2.8	Southeast of Vineyard.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
21	Oct. 24	05-57-27	36.7°	120.6°	d	2.9	East of Vineyard.
22	Oct. 24	23-12-54.4	36° 28'	121° 24'	c	3.2	South of Hollister.
23	Oct. 25	03-33-13	36.5°	121.2°	d	2.4	Southeast of Vineyard.
24	Oct. 25	03-34-01.9	36° 30'	121° 19'	c	3.0	South of Vineyard.
25	Oct. 25	09-59-52	37.0°	121.3°	d	3.6	Southeast of Mt. Hamilton.
26	Oct. 25	14-47-00	37.0°	121.2°	d	2.8	Southeast of Mt. Hamilton.
27	Oct. 25	20-17-42	37.9°	118.8°	d	3.6	South of Hawthorne, Nevada.
28	Oct. 26	07-20-53	37.9°	118.6°	d	3.7	South of Hawthorne, Nevada.
29	Oct. 26	09-56-01	36.4°	121.1°	d	3.0	Southeast of Vineyard.
30	Oct. 26	23-05-27	38.0°	118.5°	d	3.8	South of Hawthorne, Nevada.
31	Oct. 27	03-46-27	38.0°	118.7°	d	3.3	South of Hawthorne, Nevada.
32	Oct. 27	06-12-17	42° 23'	126° 32'	c	5.1	Off coast of Oregon.
33	Oct. 27	08-13-18	37.5°	121.7°	d	2.6	North of Mt. Hamilton.
31	Oct. 27	17-26-22	38.0°	118.7°	d	3.6	South of Hawthorne, Nevada.
31	Oct. 27	20-15-26	38.0°	118.7°	d	3.7	South of Hawthorne, Nevada.
34	Oct. 28	02-31-32	39.6°	119.9°	d	3.7	Near Reno, Nevada.
28	Oct. 28	04-07-27	37.9°	118.6°	d	3.9	South of Hawthorne, Nevada.
31	Oct. 28	12-54-36	38.0°	118.7°	d	3.9	South of Hawthorne, Nevada.
35	Oct. 28	17-57-40	37.4°	121.5°	d	2.6	East of Mt. Hamilton.
36	Oct. 29	23-29-02	38.4°	122.5°	d	2.9	Southeast of Santa Rosa.
37	Oct. 30	03-06-33	39.7°	120.1°	d	4.1	Northwest of Reno, Nevada.
38	Oct. 31	17-36-40.7	41° 13'	125° 09'	c	3.6	Northwest of Arcata.
39	Oct. 31	19-42-14	41.3°	125.5°	d	4.5	Northwest of Arcata.
40	Nov. 1	12-29-18	40.1°	122.6°	d	2.8	South of Shasta.
15	Nov. 1	23-17-18	37.0°	121.7°	d	2.4	Northwest of Hollister.
41	Nov. 1	23-27-50	36.9°	121.7°	d	1.7	Northwest of Hollister.
42	Nov. 2	22-21-10	40.0°	120.4°	d	3.4	Northwest of Reno, Nevada.
43	Nov. 3	02-20-03	37° 27'	121° 47'	b	2.1	Northwest of Mt. Hamilton.
44	Nov. 4	06-33-33	37° 30'	121° 21'	c	2.3	Northeast of Mt. Hamilton.
45	Nov. 5	16-49-10	37° 53'	121° 36'	c	2.6	East of Berkeley.
46	Nov. 6	03-11-34	37.1°	118.4°	d	3.6	South of Bishop.
47	Nov. 7	12-11-37	38.4°	118.6°	d	3.8	Near Hawthorne, Nevada.
48	Nov. 7	17-23-23	37.9°	122.0°	d	1.8	East of Berkeley.
49	Nov. 8	10-18-03	38.5°	118.5°	d	3.5	Near Hawthorne, Nevada.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
50	Nov. 9	01-13-27	36° 32'	121° 13'	c	3.0	Southeast of Vineyard.
51	Nov. 11	00-12-01	39.3°	123.3°	d	3.2	Near Ukiah.
52	Nov. 12	04-37-20	36.6°	121.3°	d	1.7	South of Vineyard
53	Nov. 12	17-27-39	40.4°	124.2°	d	3.1	Southeast of Ferndale.
54	Nov. 15	07-06-39	38.3°	118.5°	d	3.4	South of Hawthorne, Nevada.
55	Nov. 15	19-05-41	38.3°	118.2°	d	3.4	Southeast of Hawthorne, Nevada.
56	Nov. 16	00-22-56	37.6°	122.4°	d	1.7	South of San Francisco.
57	Nov. 16	00-23-37	37.7°	123.2°	d	2.4	Off coast of San Francisco.
58	Nov. 17	02-02-13	40° 22'	125° 10'	c	4.1	Off Cape Mendocino.
59	Nov. 19	15-58-53	37° 05'	121° 50'	c	2.5	Northeast of Santa Cruz.
60	Nov. 19	23-52-19	38.4°	122.2°	d	2.4	East of Santa Rosa.
32	Nov. 19	23-53-45	42.4°	126.9°	d	5.1	Off coast northwest of Arcata.
61	Nov. 21	08-45-48	37.1°	121.6°	d	2.0	South of Mt. Hamilton.
62	Nov. 23	04-55-26	40.4°	124.4°	d	2.8	Southwest of Arcata.
63	Nov. 23	09-54-50	36° 35'	121° 18'	c	2.8	South of Vineyard.
52	Nov. 23	23-08-36	37° 12'	121° 41'	b	2.6	South of Mt. Hamilton.
64	Nov. 25	09-28-22	35.2°	121.2°	d	3.5	South of King City.
65	Nov. 26	07-02-05	36.4°	121.4°	d	2.7	South of Vineyard.
66	Nov. 26	21-37-26	36° 48'	121° 38'	c	2.7	West of Vineyard.
67	Nov. 27	12-59-04	39.8°	122.1°	d	2.7	Northwest of Chico.
68	Nov. 29	04-39-45	40.4°	124.9°	d	3.4	Southwest of Arcata.
69	Nov. 29	10-30-33	40.3°	126.4°	d	4.1	West of Arcata.
70	Dec. 2	09-44-43	37° 28'	121° 08'	b	3.6	East of Mt. Hamilton.
71	Dec. 2	22-16-09	36.7°	121.7°	d	2.6	West of Vineyard.
72	Dec. 3	15-36-04	40.3°	125.7°	d	4.3	Off Cape Mendocino.
73	Dec. 5	08-13-42	40° 18'	125° 25'	c	5.1	Off Cape Mendocino. Felt over an area of approximately 2,000 square miles of Humboldt County. No damage reported. Max. Int. V.
74	Dec. 6	08-04-15	40° 21'	121° 00'	c	3.6	East of Mineral.
75	Dec. 6	23-48-33	37.4°	123.3°	d	2.4	West of San Francisco.
76	Dec. 10	13-55-14	39.8°	120.2°	d	2.5	Northwest of Reno, Nevada.
77	Dec. 10	19-33-51	37.3°	122.2°	d	2.0	South of Palo Alto.

Map No.	Date 1959	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
78 $	Dec. 11	05-55-26	36.6°	120.6°	d	3.5	Southeast of Vineyard.
79	Dec. 11	08-30-47	37° 48'	121° 56'	b	2.0	Northwest of Livermore.
80	Dec. 11	22-14-08	37° 57'	122° 24'		2.7	Blake Bros. Quarry blast, Point Richmond. Felt Richmond, Berkeley.
81	Dec. 14	09-19-08	37° 58'	122° 01'	b	3.4	Northeast of Berkeley. Felt Martinez-Concord area. IV at Canyon.
82	Dec. 15	16-28-36	40° 18'	124° 22'	c	3.4	South of Ferndale.
83	Dec. 15	21-02-59	37.0°	121.8°	d	2.4	Near Watsonville.
84	Dec. 16	02-28-42	38° 35'	122° 22'	c	4.1	Northeast of Santa Rosa. Felt. IV. Guerneville area, felt also at St. Helena, Napa and Calistoga.
85	Dec. 16	05-39-42	37° 46'	121° 57'	c	2.0	Northwest of Livermore.
86	Dec. 17	22-55-22	37° 58'	122° 19'	b	2.3	Northwest of Berkeley. Felt at Richmond, El Sobrante, Mira Vista district of El Cerrito.
87	Dec. 22	02-38-57	40° 16'	124° 31'	c	4.7	Southwest of Ferndale. Felt over an area of approximately 3,000 square miles of the coastal areas of northern California, principally in Humboldt county. Max. Int. V. at Briceland, Ferndale, Fields Landing, Garberville, Honeydew, Loleta.
88	Dec. 24	11-24-24	39.5°	117.9°	d	4.2	East of Fallon, Nevada.
89	Dec. 25	20-38-28	36.0°	120.6°	d	3.1	Southeast of Vineyard.
36	Dec. 26	00-18-51	38.4°	122.5°	d	2.3	East of Santa Rosa.
90	Dec. 26	09-22-26	37° 26'	121° 43'	c	2.3	Northwest of Mt. Hamilton.
91	Dec. 26	17-44-47	42.7°	119.3°	d	3.7	South central Oregon.
92	Dec. 27	04-27-53	40° 23'	124° 40'	c	3.8	Southwest of Ferndale.
55	Dec. 28	00-44-41	38.3°	118.2°	d	3.6	Southeast of Hawthorne, Nevada.
12	Dec. 29	02-32-53	36° 54'	121° 29'	b	4.7	Northwest of Hollister. Felt over an area of approximately 5,000 square miles of the coastal areas of west central California, from San Francisco to San Miguel and inland to a distance of about 30 miles. Max. Int. VI at Hollister. Minor damage, V at Castroville, Gilroy, Harris Ranch, Morgan Hill, San Juan Bautista and San Martin.
CIT	Dec. 29	14-53-08	35° 45'	120° 18'	c	3.5	Felt at Paso Robles


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCTOBER 1 TO DECEMBER 31, 1959
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
ARCATA
FERNDALE
EUREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PALO ALTO
LIVERMORE
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VINEYARD
LLANADA
KING CITY
FRESNO
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE
SAN LUIS

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - March 1960

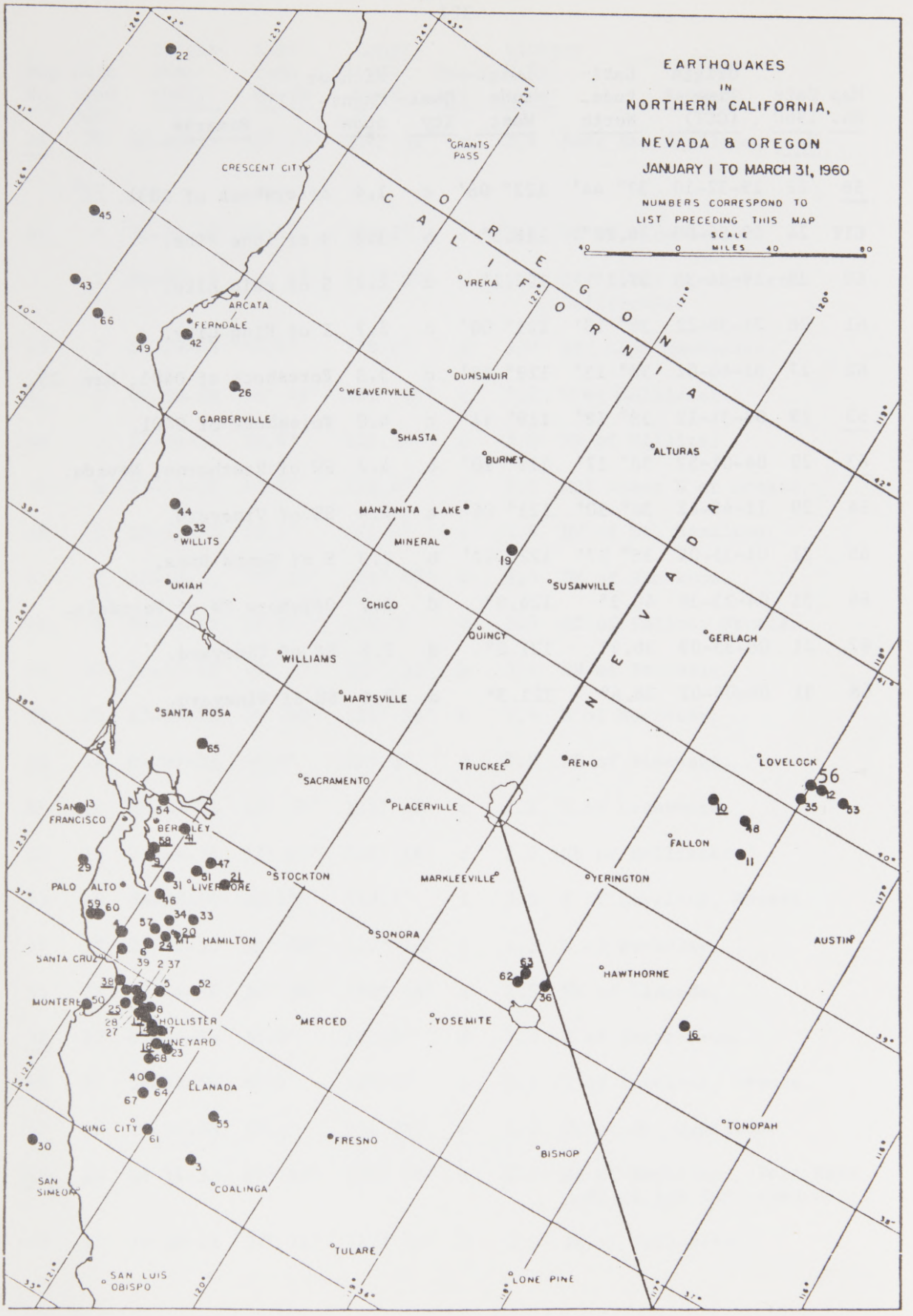
Map No.	Date 1960 Jan	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
1	2	12-16-11	37° 07'	121° 56'	b	3.4	NE of Santa Cruz.
CIT	2	22-51-48	35.4°	121.2°	d	4.0	NW of San Luis Obispo.
2	4	04-28-02	36.9°	121.6°	d	2.0	SE of Santa Cruz.
3	4	12-18-20	36.2°	120.7°	d	3.2	W of Coalinga.
4	7	01-25-09	37° 10'	122° 00'	b	2.3	N of Santa Cruz.
5	7	05-19-26	37.0°	121.5°	d	2.0	E of Santa Cruz.
6	7	06-12-05	37.2°	121.8°	d	2.4	SW of Mt. Hamilton.
CIT	11	19-08-40	37.17°	117.98°	b	3.7	E of Tinemaha.
7	12	06-25-33	36° 55'	121° 45'	b	3.4	SE of Santa Cruz. Felt 3.7 miles N of Aptos, IV.
8	13	08-43-38	36° 53'	121° 30'	c	2.3	SE of Santa Cruz.
9	15	16-23-22	37° 47'	122° 08'	a	2.2	SE of Berkeley.
9	15	19-30-06	37° 47'	122° 08'	a	2.6	Aftershock of 1623. h = 20 km.
10	16	06-47-55	39.8°	117.6°	d	3.8	NE of Fallon, Nevada.
10	16	08-19-27	39.8°	117.6°	d	3.6	Aftershock of 0647.
11	16	11-50-12	39° 35'	118° 11'	c	3.9	E of Fallon, Nevada.
12	16	22-57-14	40.2°	117.9°	d	3.9	E of Lovelock, Nevada.
13	17	18-54-58	37.7°	122.8°	d	2.0	W of San Francisco. Felt in San Bruno.
14	20	03-25-53	36° 47'	121° 26'	b	5.0	S of Hollister. Felt over an area of approximately 7500 square miles of west-central coastal areas of California. Maximum intensity (damage) VI. Minor damage occurred at the W.A. Taylor Winery, about 7 miles S of Hollister on Cienega Road: underground pipeline broken: several 20-foot-long hair-line cracks in asphalt pavement: small portions of ceiling fell: chimney cracked at roof line.
14	20	03-47-51	36° 47'	121° 26'	b	3.6	Aftershock of 0325. Felt.

Map No.	Date 1960 Jan	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
15	20	13-12-40	36° 50'	121° 28'	c	2.7	Aftershock of 0325. Felt.
16	21	14-29-56	38° 28'	117° 53'	c	4.2	E of Hawthorne, Nevada.
16	21	15-27-21	38° 28'	117° 53'	c	4.1	Aftershock of 1429.
17	22	22-01-18	36° 47'	121° 20'	c	2.6	SE of Hollister. Felt Harris Ranch, 7-1/2 miles S of Hollister, IV.
Felt	24	18-24-56	36.70°	121.30°	d	-	Felt 7.5 miles S of Hollister.
18	24	18-35-27	36.7°	121.3°	d	2.1	SE of Vineyard.
19	24	23-49-47	40° 27'	121° 03'	c	3.0	E of Mineral.
Felt	25	05-15-55	36.8°	121.5°	d	-	Felt 7.5 miles S of Hollister.
15	25	05-52-45	36.8°	121.5°	d	2.8	NW of Hollister.
CIT	26	04-17-36	38.0°	116.5°	-	4.9	Nevada.
20	26	05-52-23	37° 21'	121° 39'	b	3.3	At Mt. Hamilton.
21	26	13-57-51	37° 47'	121° 31'	b	2.5	NE of Livermore.
18	26	14-44-34	36° 43'	121° 18'	c	3.2	Near Vineyard.
21	26	14-48-49	37° 47'	121° 31'	c	2.5	Aftershock of 1357.
22	27	00-10-37	41° 54'	125° 40'	c	4.4	Off coast of northern California.
23	27	20-50-57	36.7°	121.2°	d	2.6	SE of Vineyard.
24	30	00-49-24	37.3°	121.7°	d	2.6	Near Mt. Hamilton.
	Feb						
25	1	11-08-18	36.8°	121.7°	d	2.9	SE of Santa Cruz.
15	3	08-51-42	36° 49'	121° 28'	c	2.8	Near Hollister.
26	4	08-49-48	40° 24'	123° 40'	b	3.4	SE of Ferndale.
27	6	09-41-14	36° 49'	121° 33'	c	3.4	W of Hollister.
Felt	6	19-48-00	36.75°	121.4°	d	-	III reported felt 7.5 miles S of Hollister.
Felt	7	10-20-00	36.75°	121.4°	d	-	III reported felt 7.5 miles S of Hollister.

Map No.	Date 1960 Feb	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
Felt	11	23-38-00	36.8°	121.8°	d	-	Reported felt at Moss Landing.
28	13	17-16-49	36° 51'	121° 32'	c	3.7	W of Hollister. Felt Moss Landing and Salinas Power Plants (PG&E).
29	13	18-16-34	37° 25'	122° 33'	c	1.9	W of Palo Alto.
30	14	08-34-30	35.8°	121.7°	d	2.8	W of San Simeon.
31[$]	14	15-21-51	37° 49'	121° 56'	c	2.1	W of Livermore.
32	15	19-03-56	39.5°	123.3°	d	2.9	NE of Willits. Felt at Willits and Potter Valley Power Plants.
15	16	16-54-33	36.8°	121.5°	d	2.8	SW of Hollister.
33	17	08-10-44	37° 29'	121° 35'	b	2.9	NE of Mt. Hamilton.
34	19	16-33-17	37° 24'	121° 45'	b	3.3	NW of Mt. Hamilton.
15	20	03-06-36	36° 47'	121° 30'	c	3.0	SW of Hollister.
35	22	21-34-37	40.1°	118.0°	d	3.4	E of Lovelock, Nevada.
14	22	22-18-40	36.8°	121.4°	d	2.3	Near Hollister.
36	23	09-52-08	38° 15'	118° 58'	c	2.9	SW of Hawthorne, Nevada.
37	23	10-31-15	36° 52'	121° 37'	b	2.9	W of Hollister.
20	24	10-04-25	37° 22'	121° 43'	c	1.8	Near Mt. Hamilton.
38	24	17-37-53	36° 55'	121° 48'	b	2.6	E of Santa Cruz.
39	24	23-44-57	36° 53'	121° 43'	b	2.8	W of Hollister. Felt at Harris Ranch. Small shock.
40	25	06-34-31	36.5°	121.2°	d	2.7	SW of Llanada.
15	26	05-07-53	36° 49'	121° 27'	c	2.8	Near Hollister.
41	27	19-22-25	37° 56'	122° 01	b	3.4	NE of Berkeley. Felt in San Francisco Bay area. Slight shocks (including aftershocks below) centering in the Walnut Creek area were reported felt in some East Bay communities.
41	27	19-23-15	37° 56'	122° 01'	b	2.7	Aftershock of 1922. Felt.
41	27	19-27-12	37° 56'	122° 01'	b	2.7	Aftershock of 1922. Felt.

Map No.	Date 1960	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
24	Feb 29	07-45-31	37° 19'	121° 42'	a	2.4	Near Mt. Hamilton.
	Mar						
42	1	02-24-40	40.5°	124.2°	d	2.3	SE of Ferndale.
	1	06-00-18	40° 22'	127° 30'	b	4.3	Off coast of northern California.
43	2	08-29-08	40.4°	125.2°	d	3.0	Off Cape Mendocino.
25	3	00-55-18	36° 49'	121° 40'	c	2.8	W of Hollister.
44	3	17-06-11	39.6°	123.5°	d	3.0	NW of Willits.
45	4	23-13-15	40.8°	125.4°	d	3.4	Off coast W of Arcata.
46	5	10-57-28	37.5°	121.9°	d	1.6	NW of Mt. Hamilton.
47	7	22-40-16	37° 51'	121° 42'	b	3.3	SW of Stockton.
48	8	04-42-45	39.8°	118.3°	d	3.5	NE of Fallon, Nevada.
49	10	23-46-18	40° 17'	124° 30'	b	3.4	SW of Ferndale.
50	12	17-35-12	36° 40'	121° 55'	b	2.4	N of Monterey.
18	14	07-05-23	36.7°	121.3°	d	2.5	SE of Vineyard.
51	14	20-47-25	37° 45'	121° 46'	c	2.2	N of Livermore.
52	16	23-44-32	37° 07'	121° 16'	c	2.5	NE of Hollister.
53	18	04-28-44	40.2°	117.7°	d	3.5	E of Lovelock, Nevada.
54	19	20-46-34	38° 00'	122° 16'	c	1.5	N of Berkeley.
55	21	20-46-39	36° 30'	120° 44'	c	2.5	SE of Llanada.
38	22	05-34-26	36.9°	121.8°	d	2.6	E of Santa Cruz.
56	22	06-58-55	40.2°	118.0°	d	3.7	E of Lovelock, Nevada.
57	22	16-34-08	37.3°	121.8°	d	2.2	SW of Mt. Hamilton.
58	22	18-31-33	37° 44'	122° 08'	a	2.6	SE of Berkeley. Felt East Oakland and San Leandro.
59	22	19-30-41	37° 11'	122° 15'	c	2.2	SW of Palo Alto.

Map No.	Date 1960 Mar	Origin Time (GCT)	Latitude North	Longitude West	Quality	Richter Magnitude	Remarks
58	22	19-32-10	37° 44'	122° 08'	c	1.4	Aftershock of 1831.
CIT	24	09-56-08	36.22°	118.3°	b	3.2	S of Lone Pine.
60	25	19-34-33	37.2°	122.2°	d	2.2	S of Palo Alto.
61	26	21-39-21	36° 13'	121° 00'	c	2.7	E of King City.
62	27	01-40-01	38° 13'	119° 12'	c	3.8	Foreshock of 0401, Mar. 29.
63	29	03-31-12	38° 18'	119° 11'	c	4.0	Foreshock of 0401.
63	29	04-01-57	38° 17'	119° 10'	c	4.2	SW of Hawthorne, Nevada.
64	29	11-46-42	36° 30'	121° 06'	c	2.4	SE of Vineyard.
65	31	01-35-08	38° 27'	122° 17'	b	2.3	E of Santa Rosa.
66	31	04-23-36	40.3°	124.9°	d	3.7	Offshore SW of Ferndale.
67	31	08-35-09	36.4°	121.2°	d	2.6	SE of Vineyard.
68	31	09-06-02	36.6°	121.3°	d	2.6	SE of Vineyard.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1960
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
SACRAMENTO
TRUCKEE
RENO
LOVELOCK
SAN FRANCISCO
BERKELEY
PLACERVILLE
FALLON
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
MONTEREY
HOLLISTER
MERCED
YOSEMITE
HAWTHORNE
VINEYARD
ELANADA
KING CITY
FRESNO
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

April - June 1960

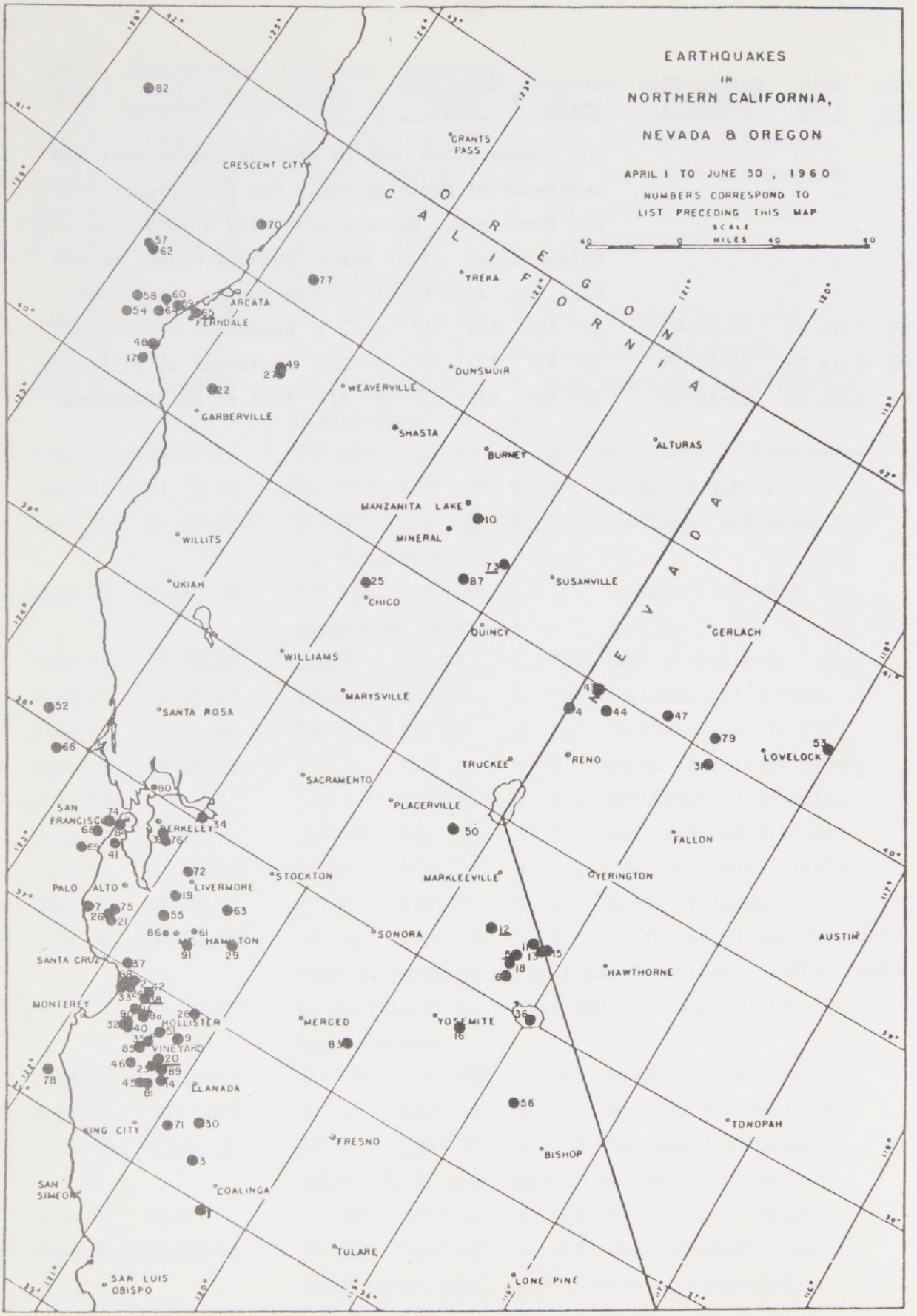
Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Apr. 2	13-02-10	35° 58'	120° 20'	c	2.7	South of Coalinga.
2	Apr. 2	18-28-36	36° 58'	121° 43'	a	2.5	East of Santa Cruz.
3	Apr. 2	19-01-12	36.2°	120.6°	d	3.4	West of Coalinga.
4	Apr. 3	11-59-00	39.8°	120.0°	d	2	North of Reno, Nevada.
5	Apr. 5	03-33-59	38° 18'	119° 20'	b	3.1	North of Yosemite.
5	Apr. 5	03-34-47	38° 18'	119° 20'	b	3.1	North of Yosemite.
6	Apr. 5	04-02-21	38° 10'	119° 20'	b	2.8	Northeast of Yosemite.
7	Apr. 5	19-32-14	37.2°	122.3°	d	1.8	Santa Cruz Mountains.
8	Apr. 6	08-47-25	36.8°	121.5°	d	2.1	Northwest of Vineyard.
9	Apr. 6	13-59-04	36.8°	121.2°	c	2.4	East of Hollister.
10	Apr. 8	13-53-00	40.5°	121.4°	d	2.9	Mt. Lassen.
11	Apr. 9	03-38-19	38° 24'	119° 15'	b	3.6	Foreshock of 0437.
12	Apr. 9	03-38-56	38° 22'	119° 35'	d	3.2	Foreshock of 0437.
13	Apr. 9	04-00-23	38° 25'	119° 10'	c	3.9	Foreshock of 0437.
CIT	Apr. 9	04-00-36	38.3°	118.8°	d	3.9	S of Hawthorne, Nev.
12	Apr. 9	04-37-55	38° 22'	119° 35'	c	4.0	SE of Markleeville.
14	Apr. 9	08-01-14	36° 30'	121° 08'	b	3.6	SE of Hollister
CIT	Apr. 9	08-01-24	38.3°	118.8°	d	3.6	S of Hawthorne, Nev.
15	Apr. 10	19-22-00	38° 25'	119° 07'	b	3.5	W of Hawthorne. Nev.
16	Apr. 12	10-10-47	37° 45'	119° 25'	b	3	Near Yosemite.
17	Apr. 12	14-42-44	40.2°	124.4°	c	3.1	Off coast southwest of Arcata.
18	Apr. 12	22-12-06	38° 16'	119° 20'	c	3.3	Southeast of Markleeville.
19	Apr. 13	08-57-15	37° 32'	121° 48'	b	2.0	Northwest of Mt. Hamilton.
20	Apr. 18	02-16-21	36° 37'	121° 14'	b	3.5	Southeast of Vineyard.
20	Apr. 18	10-03-06	36° 38'	121° 13'	d	2.4	Aftershock of 0216.
20	Apr. 18	11-19-48	36° 38'	121° 13'	c	2.7	Aftershock of 0216.
21[$]	Apr. 19	22-41-50	37.2°	122.1°	d	1.5	Santa Cruz Mountains.
22	Apr. 20	04-10-07	40° 17'	123° 47'	b	3.5	Southeast of Arcata.
23	Apr. 20	06-12-28	36° 33'	121° 15'	b	2.6	Southeast of Vineyard.
24	Apr. 21	00-03-35	36° 55'	121° 46'	b	2.9	East-southeast of Santa Cruz.
25	Apr. 23	02-21-39	39.8°	121.9°	d	3.5	North of Chico.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
26[$]	Apr. 25	21-42-33	37° 12'	122° 16'	a	2.1	South of Palo Alto, in Santa Cruz Mountains.
27	Apr. 27	01-53-53	40.6°	123.4°	d	2.6	Southeast of Arcata.
28	Apr. 28	22-02-31	36° 57'	121° 11'	c	2.1	East of Hollister.
29	May 1	22-47-57	37° 27'	121° 14'	b	2.4	East of Mt. Hamilton.
30	May 4	09-44-32	36° 25'	120° 43'	c	3.4	Southeast of Llanada.
31	May 5	02-52-00	39° 56'	118° 48'	b	2-3	North of Fallon, Nevada.
32	May 6	00-36-32	36° 47'	121° 38'	a	2.9	West of Vineyard.
33	May 6	22-54-03	36° 52'	121° 46'	a	3.1	Northeast of Monterey.
34	May 7	05-21-05	38° 02'	121° 58'	b	2.2	Northeast of Berkeley.
35	May 7	21-03-51	36° 43'	121° 23'	a	2.4	At Vineyard.
36	May 8	17-59-42	38° 02'	118° 58'	b	3.5	Northeast of Yosemite.
37	May 9	01-21-54	37° 02'	121° 50'	a	2.8	East of Santa Cruz.
38	May 10	23-09-57	36.9°	121.6°	d	2.6	Northwest of Hollister.
39	May 11	09-09-02	37° 50'	122° 14'	b	2.4	Southeast of Berkeley.
40	May 11	13-05-54	36° 42'	121° 35'	b	2.6	East of Salinas.
41	May 13	05-27-40	37.6°	122.4°	d	1.1	South of San Francisco.
42	May 13	23-20-46	36° 57'	121° 35'	b	2.5	Northwest of Hollister.
43	May 14	12-29-12	39° 57'	119° 51'	c	2.4	North of Reno, Nevada.
44	May 14	15-52-25	39.9°	119.7°	d	3.8	Northeast of Reno, Nevada.
45	May 15	06-07-23	36° 26'	121° 16'	c	2.5	South of Vineyard.
46	May 16	18-26-31	36.6°	121.4°	d	2.8	South of Vineyard.
47	May 18	06-51-03	40° 05'	119° 17'	c	2.7	Northeast of Reno, Nevada.
48	May 19	10-14-07	40.3°	124.4°	d	4.0	South of Arcata.
49	May 20	10-37-52	40° 38'	123° 36'	b	2.0	Southeast of Arcata.
50	May 21	08-18-10	38.8°	120.2°	d	2.0	South of Reno, Nevada (very poor location).
51	May 23	21-50-32	36° 46'	121° 19'	c	2.9	Near Vineyard. USCGS: IV at Harris Ranch (7½ miles south of Hollister).
52	May 26	14-29-45	38.1°	123.4°	d	2	Northwest of San Francisco.
53	May 27	00-41-03	40.4°	118.0°	d	3	Northeast of Lovelock, Nevada.
38	May 31	07-16-00	36.9°	121.6°	d	2.5	Northwest of Hollister.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
54	June 1	15-20-26	40.4°	124.7°	d	2.7	Southwest off coast of Ferndale.
55	June 4	06-34-46	37.4°	121.8°	d	2.5	10 km northwest of Mt. Hamilton.
56	June 5	07-47-07	37° 31'	118° 44'	c	5.2	USCGS: Felt over an area of approximately 4,800 square miles of east central California, extending on the north from Yosemite Village east to Benton, south to Bishop and Laws, southwest to Three Rivers and Woodlake, northwest through Friant to Snelling, thence northeast through El Portal to Yosemite. Maximum intensity VI at Crowley Lake (Long Valley Dam). No damage reported. Epicenter in unsettled area. V at Bass Lake, Bishop, Dinkey Creek, El Portal, and Yosemite Village.
57	June 6	01-17-48	40° 49'	124° 53'	c	5.7	USCGS: Felt over a land area of approximately 8,000 square miles, principally in Humboldt and Trinity Counties. Maximum intensity VI at Crannell, Eureka, and Ferndale. V at Alton, Bayside, Bluelake, Cutten, Denny, Ettersburg, Fields Landing, Fortuna, Freshwater, Garberville, Holmes, Hoopa, Kneeland, Korbel, Loleta, McKinleyville, Rio Dell, Samoa, and Weltchpec.
58	June 6	01-39-30	40.5°	124.7°	d	2.3	Aftershock of 0117.
59	June 6	02-30-02	40.6°	124.4°	d	3.2	Aftershock of 0117.
60	June 6	03-50-49	40.6°	124.5°	d	3.0	Aftershock of 0117.
61	June 6	06-34-32	37° 24'	121° 33'	a	2.3	NE of Mt. Hamilton.
Felt	June 6	09-40-00	40.8°	124.8°	d		Aftershock of 0117.
62	June 6	12-03-42	40.8°	124.8°	d	3.3	Aftershock of 0117.
63	June 6	19-13127	37° 38'	121° 24'	b	2.7	NE of Mt. Hamilton.
64	June 6	22-13-18	40.5°	124.5°	d	3.4	SW of Ferndale.
65	June 8	02-54-19	40° 34'	124° 13'	b	4.3	USCGS: Felt from Arcata north to Fortuna and Rio Dell, 50 miles to the south. Intensity III at Eureka. No damage.
65	June 8	12-00-17	40.6°	124.2°	d	3.1	Aftershock of 0254.
59	June 8	14-32-19	40.6°	124.4°	d	3.8	Aftershock of 0254.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
66	June 8	18-03-15	37° 55'	123° 12'	c	2.1	West of Point Reyes.
67	June 9	03-32-22	36.8°	121.6°	d	2.3	Northwest of Vineyard.
67	June 9	03-33-13	36.8°	121.6°	d	2.1	Aftershock of 0332.
68	June 9	15-27-39	37° 39'	122° 36'	c	1.9	Southwest of San Francisco coast.
69	June 9	15-43-23	37° 29'	122° 36'	c	1.7	Aftershock of 1527.
70	June 11	11-50-31	41.3°	124.2°	d	3.1	North of Arcata.
71	June 11	17-39-48	36.3°	120.9°	d	3.7	Southeast of Vineyard; Diablo Range.
72	June 12	02-01-43	37° 42'	121° 50'	b	2.0	Northwest of Livermore.
73	June 12	07-15-34	40° 20'	121° 03'	b	3.1	North of Quincy.
74	June 16	06-42-32	37° 42'	122° 33'	b	1.5	Southwest off coast of San Francisco.
75	June 18	01-46-13	37° 16'	122° 08'	c	1.8	South of Palo Alto in Santa Cruz Mountains.
76	June 18	14-35-47	37.8°	122.1°	d	2.0	East of Oakland.
77	June 19	10-13-02	41.2°	123.6°	d	3.9	Northeast of Arcata.
78	June 19	19 51 20	36.2°	121.9°	d	2.6	Southwest of Big Sur.
79	June 23	09-17-55	40° 07'	118° 50'	b	3	North of Fallon, Nevada.
80	June 23	18-11-17	38° 05'	122° 24'	c	1.5	Northwest of Berkeley.
81	June 24	18-13-12	36° 27'	121° 13'	b	3.5	Southeast of Vineyard.
82	June 24	21-11-35	41.5°	125.6°	d	3.9	Off coast near Arcata.
83	June 25	05-07-11	37.3°	120.1°	d	3	North of Fresno.
84	June 25	08-19-37	37° 43'	122° 33'	b	2.3	Southwest of San Francisco. Felt in Parkside area of San Francisco. USCGS: Light shock felt in Daly City and in Sunset District of San Francisco.
85	June 25	08-33-56	36° 37'	121° 25'	c	2.8	South of Vineyard.
86	June 26	00-31-48	37° 18'	121° 44'	b	1.6	West of Mt. Hamilton.
73	June 28	06-41-32	40° 19'	121° 02'	b	3.8	Northwest of Quincy. USCGS: IV in Lake Almanor and Quincy areas.
87	June 28	09-41-34	40° 08'	121° 15'	b	2.5	Northwest of Quincy.
88	June 28	12-40-44	36° 55'	121° 45'	c	3.5	East of Santa Cruz. USCGS: Felt over a small area, approximately

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
				700 square miles, of the coastal region east and northeast of Monterey Bay. One felt report from San Francisco. Maximum intensity V at Gilroy and Watsonville. IV at Aptos, Boulder Creek, Morgan Hill, San Juan Bautista, San Martin and Soquel.			
89	June 29	08-48-42	36° 35'	121° 10'	a	3.1	Southeast of Vineyard.
90	June 29	21-25-24	36° 43'	121° 36'	b	2.5	Southwest of Hollister.
91	June 30	16-19-24	37° 20'	121° 33'	b	2.7	East of Mt. Hamilton.

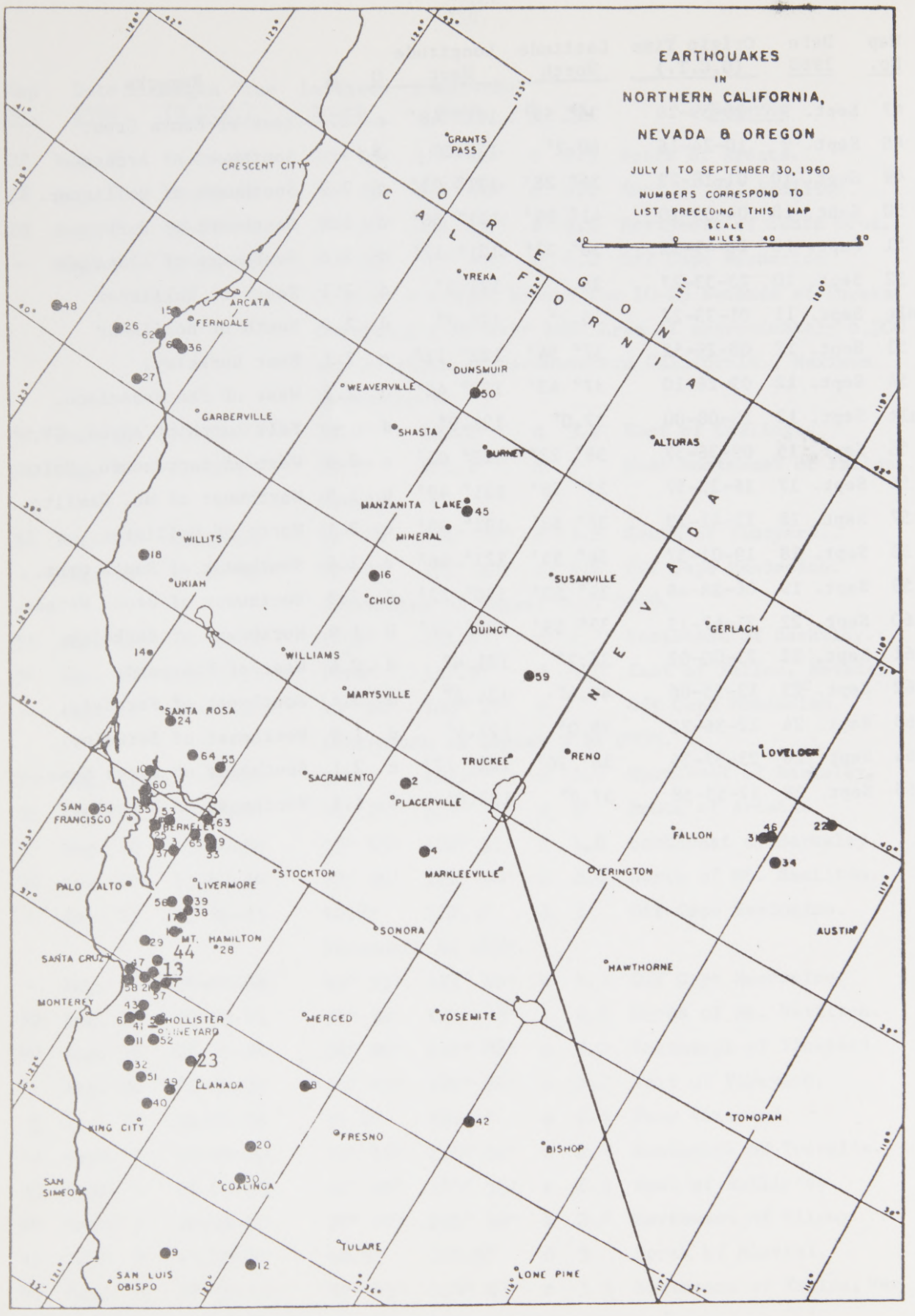

EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1960
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
WEAVERVILLE
DUNSMUIR
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
RENO
LOVELOCK
TRUCKEE
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
LIVERMORE
PALO ALTO
MARKLEEVILLE
OVERINGTON
SONORA
HAMILTON
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VINEYARD
ELANADA
KING CITY
TONOPAH
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
July-September 1960

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	July 3	04-07-43	37° 19'	121° 42'	b	1.8	Southwest of Mt. Hamilton.
2	July 3	11-06-23	38° 52'	120° 47'	d	1.8	North of Placerville.
3	July 6	22-18-48	37.8°	122.0°	d	1.8	Southeast of Berkeley.
4	July 7	12-59-48	38° 34'	120° 21'	d	2.6	Southeast of Placerville.
5	July 8	18-35-49	36.8°	121.4°	d	3.3	Northwest of Vineyard.
6	July 9	17-11-42	40° 24'	124° 14'	b	3.6	South of Ferndale.
7	July 11	04-41-42	37° 00'	121° 30'	c	1.8	North-northwest of Hollister.
8	July 11	06-47-30	36° 55'	120° 10'	d	2.0	North-northwest of Fresno.
9	July 14	03-22-23	35.6°	120.4°	d	3.0	Northeast of San Luis Obispo.
10	July 15	22-20-20	38.1°	122.5°	d	2.2	Northwest of Berkeley.
11	July 16	22-16-10	36.6°	121.5°	d	2.8	Southwest of Vineyard.
12	July 20	00-59-36	35.8°	119.8°	d	2.8	Northeast of San Luis Obispo.
13	July 21	12-54-02	37° 00'	121° 39'	c	2.1	Northwest of Hollister.
14	July 23	20-14-15	38.7°	123.0°	d	1.7	Southeast of Ukiah.
15	July 24	02-25-42	40° 34'	124° 24'	c	3.0	West of Ferndale.
16	July 24	13-12-03	39° 52'	121° 52'	b	2.4	North of Chico.
17	July 24	18-09-21	37° 25'	121° 42'	b	2.3	Northwest of Mt. Hamilton.
13	July 24	19-35-06	37° 00'	121° 38'	c	2.1	Northwest of Hollister.
18	July 24	19-53-47	39.2°	123.5°	d	2.9	West of Ukiah.
19	July 29	13-38-04	37° 55'	121° 50'	b	2.7	East of Berkeley.
20	July 30	02-16-29	36° 26'	120° 17'	c	2.5	Southwest of Fresno.
21	July 30	05-24-48	36° 58'	121° 40'	c	3.1	East of Santa Cruz.
22	July 30	08-13-10	40° 00'	117° 40'	c	3.6	Southeast of Lovelock, Nevada.
23$	Aug. 1	14-20-37	36° 41'	121° 00'	c	3.1	North-northwest of Llanada.
24	Aug. 5	06-15-53	38.4°	122.6°	d	2.0	East of Santa Rosa.
25	Aug. 6	22-11-55	37° 52'	122° 14'	b	3.0	Felt in Berkeley and Oakland.
26	Aug. 7	01-28-10	40.3°	124.7°	d	3.2	Southwest of Arcata.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
27	Aug. 7	06-14-07	40° 05'	124° 20'	c	2.5	South of Arcata.
28	Aug. 8	01-09-14	37° 26'	121° 23'	c	2.1	East of Mt. Hamilton.
29	Aug. 8	15-46-04	37° 10'	121° 50'	a	2.5	Northeast of Santa Cruz.
-	Aug. 9	07-39-18	40° 19'	127° 04'	c	6.2	Off Cape Mendocino. Felt as a slight tremor for 10-15 seconds at Eureka. Generally felt over land area of approximately 6,500 square miles of northwestern California. Maximum intensity V.
30	Aug. 9	08-59-47	36.2°	120.2°	d	3.2	East of Coalinga.
31	Aug. 9	13-22-57	39.7°	118.1°	d	3	East-northeast of Fallon, Nevada.
32	Aug. 10	03-03-50	36° 28'	121° 24'	d	3.2	South of Vineyard.
-	Aug. 10	11-31-42	40° 20'	127° 10'	c	4.6	Off Cape Mendocino. Aftershock of August 9 at 0739.
33	Aug. 10	13-11-02	37.9°	121.8°	d	1	Northeast of Berkeley.
34	Aug. 10	15-43-51	39.6°	117.9°	d	4.0	East of Fallon, Nevada.
-	Aug. 11	07-11-26	40° 10'	126° 17'	c		Off Cape Mendocino. Aftershock of August 9 at 0739.
35	Aug. 11	22-54-07	37.9°	122.4°	d	1.7	Northwest of Berkeley.
36	Aug. 15	07-56-54	40° 25'	124° 11'	d	2	South of Arcata.
37	Aug. 16	13-54-33	37° 43'	122° 11'	c	1.8	Southeast of Berkeley.
38	Aug. 17	11-42-34	37° 29'	121° 40'	c	2.6	North of Mt. Hamilton.
-	Aug. 19	03-36-23	40.8°	127.4°	d	3	Off Cape Mendocino. Foreshock of 0407.
-	Aug. 19	04-07-08	40° 55'	127° 10'	b	4.5	Off Cape Mendocino.
39	Aug. 23	09-33-41	37° 32'	121° 43'	c	2.5	North of Mt. Hamilton.
40	Aug. 26	08-57-24	36° 20'	121° 08'	c	3.0	Southeast of Vineyard.
41	Aug. 26	22-36-33	36° 45'	121° 32'	d	2.2	West of Vineyard.
5	Aug. 31	21-34-53	36.8°	121.4°	d	2.5	Near Vineyard.
42	Sept. 3	14-40-20	37° 15'	118° 57'	c	2.8	Southeast of Yosemite.
43	Sept. 4	00-09-09	36° 49'	121° 35'	c	2.5	West of Hollister.
44	Sept. 5	10-18-10	37° 07'	121° 40'	b	2.8	Northwest of Gilroy.
45	Sept. 7	21-35-27	40.5°	121.5°	d	3	North of Mineral.
46	Sept. 8	08-55-45	39° 45'	118° 03'	c	3.5	Northeast of Fallon, Nev.
CIT	Sept. 8	18-41-36	37.5°	118.7°	d	4.0	NW of Bishop

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
47	Sept. 9	06-59-28	36° 59'	121° 48'	c	2.1	East of Santa Cruz.
48	Sept. 9	10-24-16	40.2°	125.2°	d	3	Southwest of Arcata.
49	Sept. 10	01-18-22	36° 28'	121° 03'	c	2.7	Southeast of Hollister.
50	Sept. 10	04-05-10	41° 09'	121° 58'	c	1.8	Northwest of Burney
51	Sept. 10	20-49-12	36° 27'	121° 17'	d	2.8	Southwest of Llanada.
52	Sept. 10	23-33-27	36.7°	121.3°	d	2.1	South of Hollister
Felt	Sept. 11	01-33-27	36.7°	121.3°	d	2.0	South of Hollister
53	Sept. 12	08-29-52	37° 54'	122° 11'	c	2.1	Near Berkeley.
54	Sept. 12	09-26-10	37° 43'	122° 42'	d	2.2	West of San Francisco.
Felt	Sept. 12	13-08-00	37.0°	121.9°	d	-	Felt north of Aptos, IV.
55	Sept. 15	09-36-37	38° 22'	122° 05'	c	2.9	West of Sacramento. Felt.
56	Sept. 17	16-22-57	37° 28'	121° 49'	b	1.9	Northwest of Mt. Hamilton.
57	Sept. 18	17-41-23	36° 58'	121° 33'	c	3.1	North of Hollister.
58	Sept. 18	19-01-57	36° 55'	121° 46'	c	1.8	Southeast of Santa Cruz.
59	Sept. 19	06-28-48	39° 50'	120° 22'	d	2.3	Northwest of Reno. Nevada.
60	Sept. 22	21-47-13	37° 59'	122° 31'	b	1.9	Northwest of Berkeley.
61	Sept. 22	23-00-02	36.7°	121.6°	d	2.6	West of Vineyard.
62	Sept. 23	13-55-06	40.4°	124.4°	d	3.1	Southwest of Ferndale.
63	Sept. 24	12-36-22	38.0°	121.9°	d	1.9	Northeast of Berkeley.
64	Sept. 26	23-57-35	38° 20'	122° 17'	c	2.1	Southeast of Santa Rosa.
65	Sept. 28	12-53-58	37.9°	122.0°	d	1.8	Northeast of Berkeley.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO SEPTEMBER 30, 1960
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PALO ALTO
LIVERMORE
SONORA
AUSTIN
MT. HAMILTON
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
SAN JUAN BAUTISTA
MERCED
YOSEMITE
KING CITY
FRESNO
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE

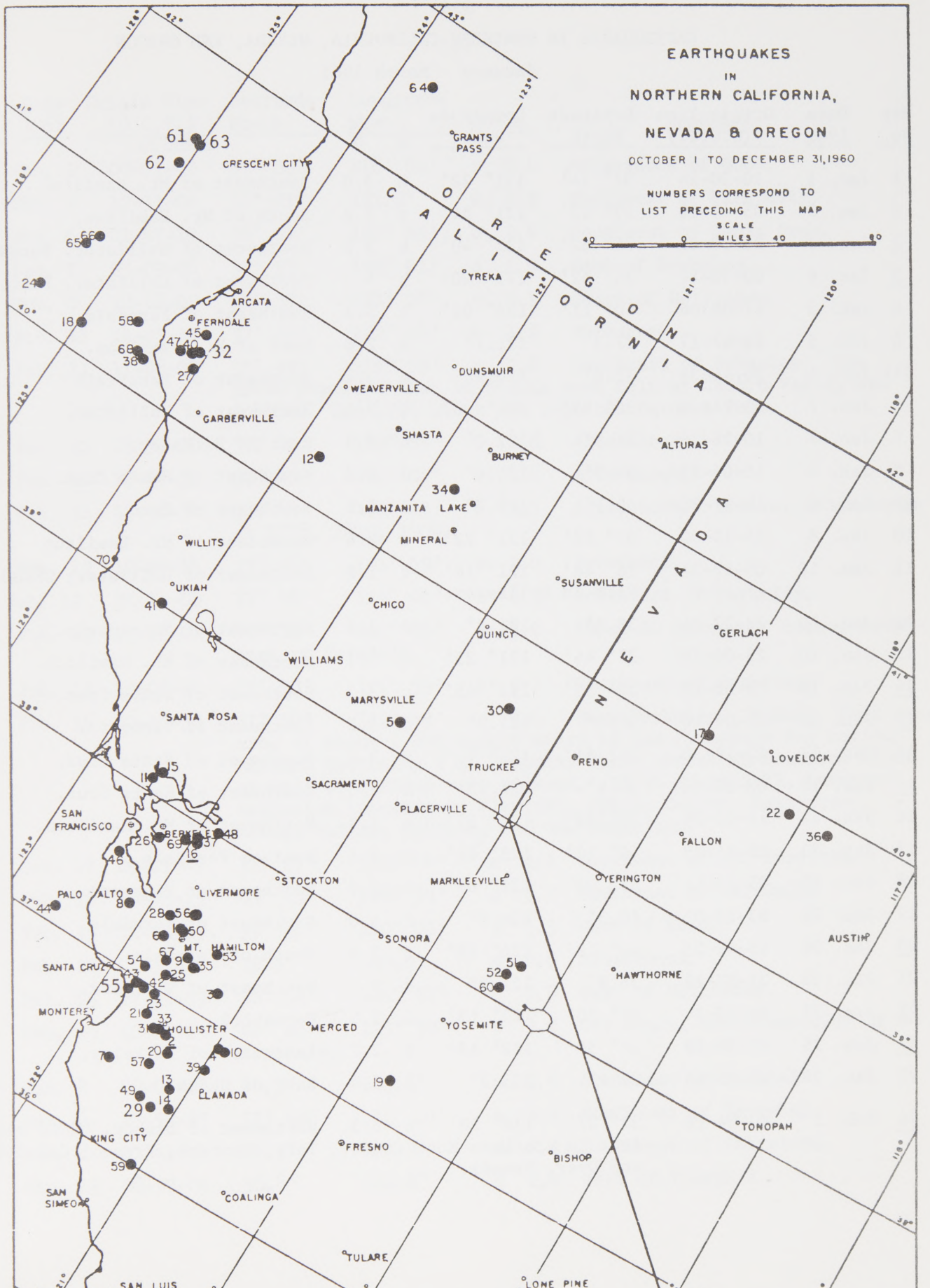
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
October-December 1960

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Oct. 2	10-02-37	37° 24'	121° 43'	b	1.9	Northwest of Mt. Hamilton.
2	Oct. 2	20-43-24	36° 49'	121° 23'	c	2.7	Southeast of Hollister. Felt: 7 miles south of Hollister.
3	Oct. 4	02-52-46	37° 10'	121° 13'	c	2.4	Southeast of Mt. Hamilton.
4	Oct. 4	03-49-50	36° 53'	120° 58'	c	2.2	Northeast of Vineyard.
5	Oct. 5	01-18-06	39° 11'	121° 09'	b	3.3	East of Marysville.
6	Oct. 7	00-48-39	37.3°	121.8°	d	2.5	Southwest of Mt. Hamilton.
7	Oct. 8	00-02-29	36° 30'	121° 40'	c	3.0	Southwest of Vineyard.
-	Oct. 10	13-43-33	41.0°	127.4°	d	4.0	Off west coast of Cape Mendocino.
-	Oct. 17	06-07-10	40.6°	117.4°	d	4.4	Northeast of Lovelock, Nevada.
-	Oct. 18	12-17-00	35° 41'	118° 23'	c	3.6	East of Bakersfield.
25	Oct. 18	21-38-17	37° 12'	121° 37'	c	2.8	South of Mt. Hamilton.
8	Oct. 19	10-44-45	37° 22'	122° 08'	c	1.6	South of Palo Alto.
16	Oct. 19	21-05-14	37° 45'	121° 58'	c	1.9	Southeast of Berkeley.
9	Oct. 20	05-18-39	37° 16'	121° 34'	a	2.7	Southeast of Mt. Hamilton.
2	Oct. 23	03-43-07	36° 48'	121° 24'	b	3.8	South of Hollister. Felt in Hollister.
10	Oct. 29	00-38-39	36° 54'	120° 55'	c	3.0	East of Hollister.
11	Oct. 29	19-30-43	38.1°	122.5°	d	2.3	North of San Francisco.
12	Nov. 2	04-02-06	40.3°	122.8°	d	3.1	Southwest of Shasta.
13	Nov. 3	06-50-24	36° 32'	121° 08'	b	4.1	Southeast of Vineyard. Felt over an area approximately 4000 square miles of coastal region of west-central California, principally in Monterey and San Benito Counties. Maximum intensity V.
14	Nov. 3	07-13-40	36° 26'	121° 04'	c	2.7	South-southwest of Llanada.
15	Nov. 4	17-29-25	38° 10'	122° 28'	c	2.0	Northwest of Berkeley.
16	Nov. 5	19-08-17	37° 54'	121° 58'	c	1-2	East of Berkeley.
17	Nov. 6	10-35-39	40° 05'	118° 59'	c	3.0	West-southwest of Lovelock, Nevada.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
18	Nov. 6	18-32-20	40.2°	125.0°	d	3.6	Southwest of Arcata.
19	Nov. 7	21-11-17	37° 15'	119° 44'	c	3.2	North of Fresno.
-	Nov. 8	11-36-27	44.9°	125.2°		5.0	Off coast of Oregon. Felt: Newport, and Umpqua, Oregon and Aberdeen, Washington.
20	Nov. 8	12-33-31	36.7°	121.3°	d	2.4	Near Vineyard.
21	Nov. 9	15-25-29	36° 51'	121° 37'	c	2.4	West of Hollister.
22	Nov. 10	07-53-34	39.9°	118.1°	d	2.9	Northeast of Fallon, Nevada.
23	Nov. 10	12-25-33	36° 59'	121° 37'	c	1.7	Northwest of Hollister.
-	Nov. 11	12-49-32	40° 22'	127° 28'	c	4.5	Off Cape Mendocino.
24	Nov. 12	06-39-50	40° 15'	125° 25'	d	3.4	Southwest of Arcata.
25	Nov. 12	06-00-51	37° 08'	121° 38'	c	1.9	South of Mt. Hamilton.
26	Nov. 13	05-11-32	37° 50'	122° 13'	c	2.4	East Oakland. Felt in Montclair district of Oakland.
27	Nov. 15	06-26-18	40° 21'	124° 02'	c	2.3	South of Arcata.
28	Nov. 17	14-44-18	37° 27'	121° 51'	b	2.1	Northwest of Mt. Hamilton.
29	Nov. 18	04-36-44	36° 23'	121° 12'	c	3.0	North-northwest of King City.
30	Nov. 18	11-03-14	39° 36'	120° 28'	b	4.4	West of Reno, Nevada. Felt over an area approximately 3500 square miles of Plumas, Sierra, Nevada and Placer counties. Maximum intensity V.
31	Nov. 20	08-16-20	36° 48'	121° 29'	c	2.6	Southwest of Hollister.
32	Nov. 20	15-52-04	40° 27'	124° 03'	d	2.7	South of Arcata.
33	Nov. 20	23-50-01	36° 49'	121° 27'	c	3.5	Southeast of Hollister. Felt in Hollister, light shock, accompanied by a rumble.
34	Nov. 22	06-13-57	40° 36'	121° 47'	c	2.8	Northwest of Mineral.
35	Nov. 29	00-57-42	37° 15'	121° 27'	b	2.6	Southeast of Mt. Hamilton.
36	Nov. 29	17-08-33	39.9°	117.8°	d	3.9	Northeast of Fallon, Nevada.
37	Nov. 30	01-05-13	37° 55'	121° 58'	b	1.5	East-northeast of Berkeley.
38	Nov. 30	18-16-30	40.2°	124.4°	d	2.7	South-southwest of Ferndale.
CIT	Dec. 1	05-39-55	37.5°	118.58°	c	3.6	Northwest of Bishop.
39	Dec. 2	08-15-31	36° 44'	120° 59'	c	2.8	East-southwest of Hollister.
40	Dec. 5	12-32-01	40° 26'	124° 07'	c	4.1	Southeast of Ferndale.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
41	Dec. 8	12-46-28	39°	123.2°	d	3.1	South of Ukiah.
			Felt: southeast shore of Clear Lake, Lake County.				
			Maximum intensity IV.				
42	Dec. 9	07-04-16	36° 58'	121° 43'	b	2.5	Northwest of Hollister.
43	Dec. 9	14-07-30	36.9°	121.8°	d	3.4	Northwest of Hollister.
44	Dec. 9	14-09-13	37.1°	122.6°	d	2.6	Off coast southwest of
			Palo Alto.				
45	Dec. 12	18-41-24	40° 33'	124° 05'	c	3.7	East of Ferndale.
			Felt: Eureka.				
46	Dec. 14	05-16-33	37° 38'	122° 25'	c	2.4	South of San Francisco.
47	Dec. 14	13-58-55	40.4°	124.2°	d	3.0	Southeast of Ferndale.
48	Dec. 15	05-40-26	38° 02'	121° 50'	b	3.9	Northeast of Berkeley.
			Felt over an area of approximately 2500 square miles of the San Francisco Bay region, principally in southern Solano and northern Contra Costa counties.				
49	Dec. 15	08-28-08	36.4°	121.3°	d	3.0	South of Hollister.
50	Dec. 15	12-08-41	37.4°	121.7°	d	2.3	Northwest of Mt. Hamilton.
51	Dec. 18	23-23-30	38° 17'	119° 20'	c	4.1	West of Hawthorne.
52	Dec. 19	05-33-23	38.2°	119.4°	d	3.5	West of Hawthorne.
53	Dec. 20	00-54-17	37.4°	121.4°	d	2.1	Northeast of Mt. Hamilton.
54	Dec. 22	19-23-58	37.1°	121.8°	d	2.1	East of Santa Cruz.
55	Dec. 23	02-55-39	36° 56'	121° 49'	c	2.4	East of Santa Cruz.
56	Dec. 24	14-40-34	37° 32'	121° 42'	c	2.6	Northwest of Mt. Hamilton.
57	Dec. 26	00-26-01	36° 36'	121° 23'	c	2.1	South of Hollister.
58	Dec. 26	03-42-45	40.4°	124.6°	d	2.8	Southwest of Ferndale.
59	Dec. 27	03-57-55	36.0°	121.1°	d	3.3	South of King City.
60	Dec. 27	05-02-03	38.1°	119.4°	d	3.0	North of Yosemite.
61	Dec. 27	10-35-26	41° 31'	125° 03'	b	5.4	Northwest of Arcata.
			Felt in Del Norte and Humboldt. Depth about 61 km.				
			Maximum intensity V.				
62	Dec. 27	10-56-34	41° 21'	125° 04'	c	4.0	Aftershock of 10-35-26.
63	Dec. 27	11-08-44	41° 30'	125° 00'	c	4.7	Aftershock of 10-35-26.
64	Dec. 27	11-27-08	42.6°	123.7°	d	3.3	Northwest of Grants Pass.
65	Dec. 27	16-16-55	40° 37'	125° 20'	c	2.9	Off coast from Ferndale.

Map No.	Date 1960	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
66	Dec. 28	10-41-56	40° 40'	125° 15'	c	3.5	Off coast from Ferndale.
67	Dec. 29	06-11-08	37.2°	121.7°	d	2.1	Southwest of Mt. Hamilton.
68	Dec. 29	06-59-58	40° 15'	124° 28'	c	3.6	Southwest of Ferndale.
69	Dec. 31	05-26-21	37° 55'	122° 03'	b	2.6	East of Berkeley. Felt in Lafayette.
70	Dec. 31	07-06-10	39.1°	123.7°	d	3.3	West of Ukiah.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCTOBER 1 TO DECEMBER 31, 1960
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
EUREKA
WEAVERVILLE
DUNSMUIR
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PALO ALTO
LIVERMORE
SONORA
AUSTIN
MT. HAMILTON
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PLANADA
TONOPAH
KING CITY
FRESNO
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE

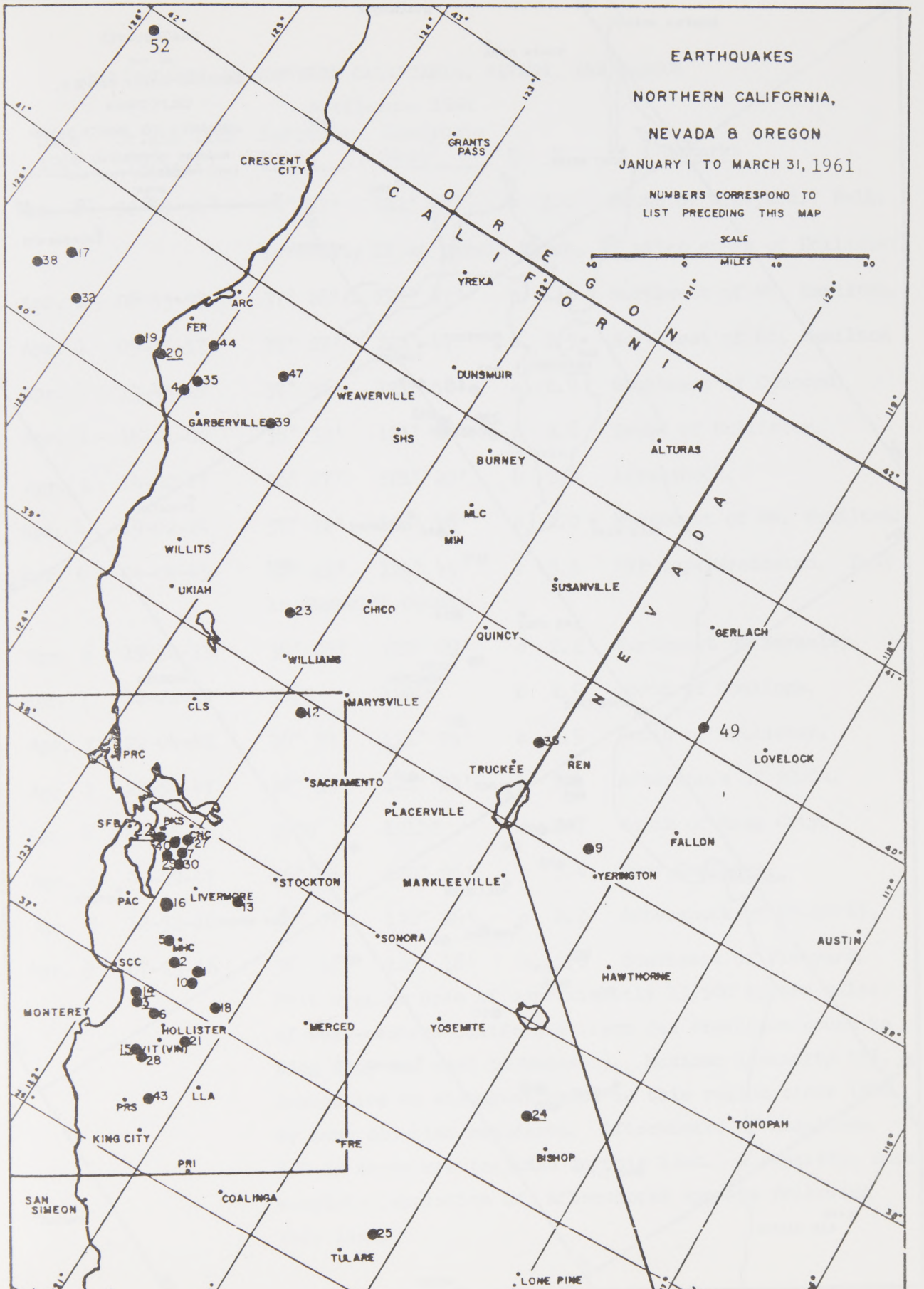
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

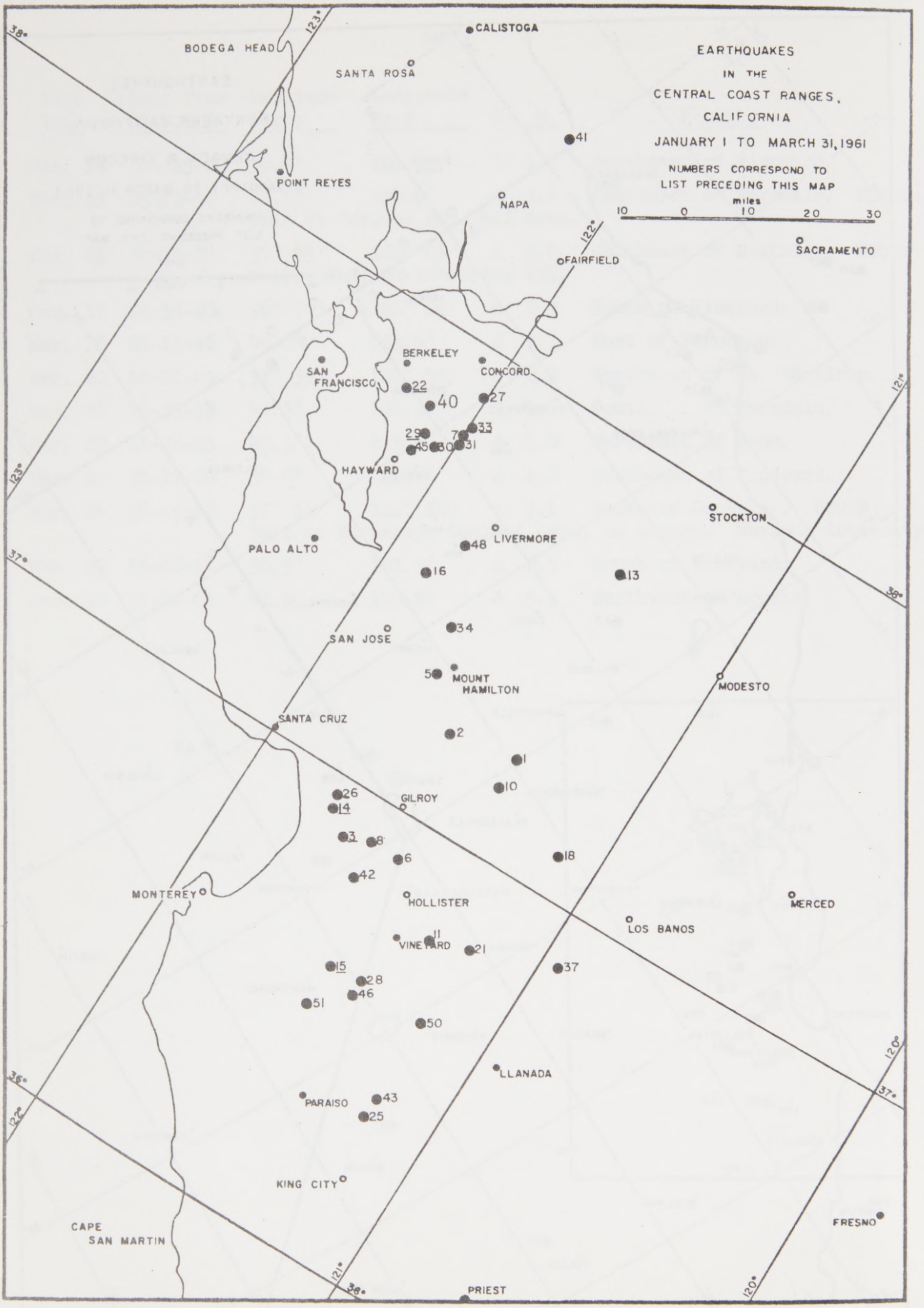
January - March 1961

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Jan. 1	10-30-24	37° 14'	121° 22'	b	3.0	Southeast of Mt. Hamilton.
2	Jan. 2	05-40-18	37° 12'	121° 34'	c	2.2	South of Mt. Hamilton.
3	Jan. 3	23-00-21	36° 52'	121° 40'	b	3.6	Northwest of Hollister. Foreshock.
3	Jan. 4	00-30-17	36° 52'	121° 40'	b	4.1	Northwest of Hollister. Felt.
4	Jan. 5	17-08-06	40° 11'	124° 01'	c	3.2	Southeast of Ferndale.
5	Jan. 6	16-47-17	37.3°	121.7°	d	2.6	West of Mt. Hamilton.
CIT	Jan. 6	20-46-36	35.8°	120.2°	d	3.4	Southeast of Parkfield
6	Jan. 7	03-21-26	36° 59'	121° 30'	c	3.4	Northwest of Hollister.
7	Jan. 7	10-26-26	37.8°	122.0°	d	2.3	East of Berkeley.
8	Jan. 8	16-06-22	36.9°	121.6°	d	2.5	Southeast of Santa Cruz.
9	Jan. 8	18-57-30	39.1°	119.3°	d	2.8	Southeast of Reno.
10	Jan. 8	21-19-00	37° 09'	121° 22'	c	2.6	Southeast of Mt. Hamilton.
11	Jan. 10	09-27-31	36° 46'	121° 18'	c	1.8	Southeast of Hollister; USCGS: Felt in Hollister.
12	Jan. 10	22-22-34	38.9°	121.8°	d	2.5	Northwest of Sacramento.
13	Jan. 10	23-04-58	37° 44'	121° 25'	c	3.1	Northeast of Mt. Hamilton.
14	Jan. 13	08-36-12	36° 55'	121° 45'	c	3.5	Southeast of Santa Cruz.
15	Jan. 16	07-07-40	36.6°	121.5°	d	3.2	Southwest of Vineyard.
14	Jan. 17	22-18-30	36° 55'	121° 43'	c	3.4	Southeast of Santa Cruz.
14	Jan. 18	00-00-00	36.9°	121.7°	d	2.5	Southeast of Santa Cruz.
16	Jan. 22	19-43-39	37° 29'	121° 52'	c	2.3	Northwest of Mt. Hamilton.
17	Jan. 23	18-54-28	40° 30'	125° 21'	c	3.4	West of Ferndale.
18	Jan. 25	05-12-41	37° 05'	121° 08'	c	2.2	Northeast of Vineyard.
19	Jan. 26	03-23-01	40.3°	124.5°	d	3.0	Southwest of Ferndale.
20	Jan. 26	15-49-25	40° 19'	124° 18'	c	2.9	South of Ferndale.
21	Jan. 28	21-07-19	36.8°	121.2°	d	2.5	Northeast of Vineyard.
22	Jan. 29	06-17-24	37° 50'	122° 13'	b	2.5	Foreshock.
22	Jan. 29	07-30-29	37° 50'	122° 13'	b	2.7	Southeast of Berkeley.
23	Jan. 30	08-42-45	39.4°	122.3°	d	3.4	East of Ukiah.
24	Feb. 2	00-04-16	37° 27'	118° 38'	b	5.3	Northwest of Bishop. USCGS reports felt in southern Mono County, Taft, Hanford, Fresno, California and Dyer, Nevada.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
24	Feb. 2	00-07-42	37° 25'	118° 40'	c	5.1	Aftershock of 0004.
25	Feb. 2	12-31-00	36° 21'	121.2°	d	2.2	Northwest of King City.
26	Feb. 6	01-47-19	36° 57'	121° 45'	b	2.4	Southeast of Santa Cruz.
27	Feb. 7	23-09-06	37° 53'	122° 01'	d	1.9	East of Berkeley.
28	Feb. 8	18-48-09	36° 37'	121° 25'	c	3.1	South of Hollister.
29	Feb. 11	14-05-30	37° 44'	122° 04'	c	1.2	Foreshock.
29	Feb. 11	17-08-09	37° 45'	122° 05'	a	2.6	Southeast of Berkeley. The press reported that 10 shocks were felt at Castro Valley and Dublin. The 1708 shock was reported hardest felt.
29	Feb. 11	17-35-07	37° 45'	122° 05'	b	2.6	Aftershock.
29	Feb. 11	17-37-53	37° 45'	122° 04'	b	2.6	Aftershock.
30	Feb. 11	17-38-34	37° 44'	122° 03'	c	2.5	Aftershock. Smaller aftershocks at 1758, 1819, 1904.
31	Feb. 12	19-24-14	37° 46'	121° 59'	a	2.0	Foreshock.
29	Feb. 12	21-14-09	37° 46'	122° 02'	b	2.3	Southeast of Berkeley.
32	Feb. 13	15-12-01	40° 18'	125° 05'	a	3.6	About 40 miles off coast, southwest of Ferndale.
33	Feb. 15	10-02-04	37° 50'	121° 59'	b	2.1	Southeast of Berkeley.
22	Feb. 16	20-12-58	37° 50'	122° 13'	a	3.6	Near Berkeley. USCGS: Felt over area of about 1,200 square miles in San Francisco Bay region. Maximum intensity V at Berkeley where cracks in basement floor of Hall of Justice were widened. IV at Bacon Hall, Lawrence Radiation Laboratory, Alvarado, Aptos, Canyon, Lafayette, Moraga Valley, Oakland, and San Francisco.
34	Feb. 17	05-17-49	37° 25'	121° 44'	c	2.1	Northwest of Mt. Hamilton.
35	Feb. 19	14-43-23	40° 18'	123° 55'	c	3.2	Southeast of Ferndale.
36	Feb. 19	22-55-15	39° 30'	120° 05'	b	3.3	West of Reno.
36	Feb. 20	01-33-16	39.5°	120.0°	d	2.8	Aftershock.
37	Feb. 25	17-01-59	36° 54'	120° 57'	b	2.8	East of Hollister.
38	Feb. 28	10-05-25	40° 23'	125° 32'	b	3.7	Off coast, west-southwest of Ferndale.
39	Mar. 3	09-07-28	40.3°	123.3°	d	3.6	Southeast of Ferndale.
40$	Mar. 6	13-54-37	37° 49'	122° 10'	c	2.2	Southeast of Berkeley.
41	Mar. 8	01-43-44	38.5°	122.2°	d	2.3	Southeast of Calistoga.
42	Mar. 13	08-37-04	36.8°	121.6°	d	2.4	West of Vineyard.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
43	Mar. 14	04-15-00	36.4°	121.2°	d	3.4	Southeast of Vineyard.
44	Mar. 15	03-22-50	40.5°	124.0°	d	3.1	Southeast of Ferndale. USCGS: Felt at Fortuna Rio Dell area.
45	Mar. 15	23-15-23	37° 43'	122° 06'	c	2.6	Southeast of Berkeley. USCGS: Felt. Maximum intensity III.
46	Mar. 17	21-35-20	36° 34'	121° 24'	c	2.9	South of Vineyard.
47	Mar. 18	05-13-46	40.6°	123.4°	d	3.7	East of Ferndale.
48	Mar. 20	14-00-05	37° 35'	121° 50'	c	2.3	Northwest of Mt. Hamilton.
20	Mar. 21	10-59-39	40.3°	124.3°	d	3.6	South of Ferndale.
49	Mar. 22	11-38-15	40.1°	119.0°	d	3.0	Northeast of Reno.
50	Mar. 22	21-17-20	36.6°	121.2°	d	2.8	Southeast of Vineyard.
22	Mar. 24	16-49-22	37° 53'	122° 12'	c	3.1	South of Berkeley. USCGS: Felt at Berkeley, Oakland area, no damage. Maximum intensity IV.
51	Mar. 29	16-00-11	36.5°	121.5°	d	2.5	South of Vineyard.
52	Mar. 30	17-12-01	41.9°	125.9°	d	3.5	Northwest of Arcata.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
SFB
PKS
CRC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
MHC
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PRS
LLA
TONOPAH
KING CITY
FRE
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
LONE PINE


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JANUARY 1 TO MARCH 31, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
CONCORD
SAN FRANCISCO
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
PRIEST
123°
122°
121°
120°
38°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

April-June 1961

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	Apr. 1	02-40-31	36° 33'	121° 24'	b	3.0	South of Vineyard. Felt. Intensity IV at Harris Ranch, 7½ miles south of Hollister.
2	Apr. 1	06-33-57	37° 28'	121° 47'	b	1.6	Northwest of Mt. Hamilton.
2	Apr. 1	09-17-57	37° 27'	121° 47'	c	2.5	Northwest of Mt. Hamilton
3	Apr. 1	13-45-24	37° 56'	121° 58'	a	2.0	Southeast of Concord.
4	Apr. 1	14-01-02	36° 33'	121° 19'	b	2.8	South of Hollister.
5	Apr. 1	14-22-17	36° 37'	121° 20'	b	2.6	Aftershock.
6	Apr. 4	19-02-24	37° 22'	121° 48'	c	2.0	Northwest of Mt. Hamilton.
7	Apr. 6	04-04-45	40° 11'	124° 45'	c	5.1	Off Cape Mendocino. Felt in Humboldt County.
8	Apr. 6	19-32-33	38° 05'	122° 29'	c	2.2	Northwest of Berkeley.
9	Apr. 7	12-21-19	36°.2	120°.4	d	2.9	North of Coalinga.
1	Apr. 7	22-04-42	36° 33'	121° 23'	a	3.5	South of Hollister.
1	Apr. 7	23-54-47	36° 33'	121° 23'	b	3.4	Aftershock of 22:04.
10	Apr. 8	04-55-26	36°.0	121°.2	d	2.7	South of King City.
11	Apr. 8	09-29-47	36° 06'	120° 26'	b	3.4	Near Coalinga.
11	Apr. 8	12-52-16	36° 07'	120° 26'	c	2.7	Aftershock of 09-29-47.
12	Apr. 9	07-23-16	36° 41'	121° 18'	a	5.6	Southeast of Vineyard. Felt over an area of approximately 13,500 square miles of west-central California (from San Francisco south to King City and east to Modesto). Maximum intensity VII. Designated as strongest shock in this region since 1906 by many old-time residents. Aftershocks of magnitude 3.0 or above are included in this list. A separate, more complete tabulation of aftershocks appears following this list.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
12	Apr. 9	07-25-41			d	5.5	Aftershock. Felt over much the same area as main shock.
13	Apr. 10	17-18-25	36° 42'	121° 20'	d	3.2	Aftershock of 07-23 on Apr. 9.
14	Apr. 11	09-08-11	36.0	120.1	d	2.7	Southeast of King City.
13	Apr. 11	16-51-44	36° 43'	121° 20'	c	3.3	Aftershock of 07-23 on Apr. 9.
15	Apr. 11	18-23-19	38° 28'	117° 50'	b	3.4	Southeast of Hawthorne, Nevada.
16	Apr. 12	04-59-08	35° 55'	120° 30'	c	2.6	Southwest of Coalinga.
12	Apr. 13	22-58-25	36° 40'	121° 17'	c	3.0	Aftershock of 07-23 on Apr. 9.
17	Apr. 14	08-01-25	38° 55'	122° 35'	c	2.3	Southeast of Ukiah.
18	Apr. 14	22-46-21	40° 17'	124° 30'	a	3.5	Southwest of Ferndale.
19	Apr. 15	03-24-09	36° 37'	121° 23'	b	3.1	South of Vineyard. (Sequence of Apr. 9, 1961.)
20	Apr. 16	11-01-17	36° 40'	121° 30'	c	3.4	Southwest of Vineyard. (Sequence of Apr. 9, 1961.)
21	Apr. 16	23-03-53	36° 35'	120° 43'	c	2.4	Southeast of Llanada.
22	Apr. 17	01-02-01	38° 44'	119° 33'	b	2.9	East of Markleeville.
-	Apr. 18	05-11-21	43.3	118.7	d	3.5	Southeastern Oregon. (Not on map.
23	Apr. 19	18-16-35	36° 24'	121° 35'	c	3.3	Southeast of Monterey, Calif.
24	Apr. 20	10-45-12	36° 57'	121° 13'	b	2.6	Northeast of Hollister (h=20 km).
2	Apr. 22	17-12-58	37° 27'	121° 48'	b	2.2	Northwest of Mt. Hamilton.
25	Apr. 24	06-38-50	36° 41'	121° 25'	c	2.0	Southwest of Vineyard.
26	Apr. 26	10-12-17	37° 51'	122° 05'	c	2.0	Southeast of Berkeley.
27	Apr. 27	09-04-35	36° 48'	121° 29'	a	2.5	Southwest of Hollister (h=15 km).
1	Apr. 27	11-16-10	36° 33'	121° 24'	c	3.4	South of Vineyard.
28	Apr. 28	01-02-52	36° 36'	121° 22'	c	4.2	South of Vineyard. (Sequence of Apr. 9, 1961.) Felt principally in the Hollister area and in the Cienega district south of Hollister. Scattered felt reports from an area of approximately 2,000 square miles. Maxi- intensity V in Chualar Canyon, Hollister and Paicines.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
29	Apr. 28	03-56-25	36° 32'	121° 21'	c	3.2	Aftershock. Felt.
30	Apr. 28	14-05-50	36° 37'	121° 25'	b	3.5	Aftershock. Felt.
31	Apr. 28	17-48-53	37° 50'	122° 15'	b	2.2	South of Berkeley. Blast?
27	Apr. 29	03-17-01	36°.7	121°.5	d	3.1	Southwest of Hollister. Felt.
-	Apr. 29	09-19-30	40° 25'	127° 27'	c	5.5	Off Cape Mendocino.
-	Apr. 29	16-51-30	40°.7	127°.7	d	4±	Aftershock.
-	Apr. 29	20-25-29	40° 41'	127° 58'	b	4.2	Aftershock.
-	Apr. 30	04-45-13	40° 36'	128° 00'	c	4.4	Aftershock.
-	Apr. 30	14-13-45	40°.8	128°.3	d	4.3	Aftershock.
-	Apr. 30	17-30-39	40° 38'	127° 07'	b	4.3	Aftershock.
-	May 1	02-41-38	40° 50'	127° 42'	c	4.2	Aftershock.
-	May 1	02-50-49	40° 41'	127° 42'	c	4.2	Aftershock.
-	May 1	03-23-50	40° 56'	127° 16'	c	4.3	Aftershock.
-	May 1	07-21-26	40° 53'	127° 07'	c	4.3	Aftershock.
-	May 1	10-07-30	40°.5	126°.8	d	3.8	Aftershock.
-	May 1	12-19-06	40° 50'	127° 23'	c	4.5	Aftershock.
-	May 1	12-57-14	40° 23'	126° 17'	c	4.2	Aftershock.
-	May 1	18-45-29	40° 37'	127° 00'	c	4.5	Aftershock.
-	May 1	21-30-02	40°.4	126°.6	d	4.0	Aftershock.
-	May 2	01-28-59	40°.9	127°.0	d	4.2	Aftershock.
-	May 2	10-10-30	40° 47'	127° 16'	b	4.1	Aftershock.
-	May 2	22-37-56	40° 45'	127° 02'	b	4.4	Aftershock.
-	May 3	08-48-53	40° 34'	127° 34'	b	4.3	Aftershock.
-	May 4	02-17-34	40° 47'	127° 03'	c	4.7	Aftershock.
-	May 4	20-36-42	41°.2	127°.0	d	4.1	Aftershock.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	May 4	20-51-39	40° 51'	127° 35'	b	3.9	Aftershock.
-	May 4	20-59-09	41° 04'	127° 05'	b	4.4	Aftershock.
-	May 5	12-02-19	41° 45'	127° 20'	b	3.7	Aftershock.
-	May 5	13-07-54	40°.7	126°.8	d	4.0	Aftershock.
32	May 6	04-37-37	38° 13'	121° 58'	b	2.4	Southeast of Fairfield.
33	May 6	04-58-34	37° 39'	121° 38'	b	2.2	East of Livermore.
34	May 6	18-30-18	37° 34'	121° 46	c	2.0	South of Livermore.
-	May 7	06-03-04	40° 50'	126° 42'	b	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 7	09-01-26	40°.2	128°.3	d	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
76	May 7	09-05-32	37° 50'	121° 47'	a	1.9	East of Berkeley.
-	May 7	15-26-31	40° 38'	127° 01'	c	4.4	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 7	16-19-06	40° 38'	127° 05'	b	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
35	May 7	19-38-08	40° 40'	125° 11'	c	3.7	Northwest of Ferndale.
73	May 8	02-01-39	40°.7	126°.0	d	3.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 8	12-43-43	40° 45'	126° 55'	b	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 8	13-57-44	40° 50'	127° 30'	c	3.9	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 8	23-58-56	43°.5	125°.5	d	-	Off coast of Oregon.
-	May 8	23-59-27	43° 42'	124° 22'	d	-	Southwest of Corvallis.
-	May 9	12-03-06	40° 36'	126° 45'	c	3.7	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	May 9	12-06-28	40° 45'	126° 50'	c	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 11	04-59-30	40° 58'	127° 01'	c	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 11	18-48-33	41° 40'	128° 06'	b	4.7	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 11	20-57-12	40° 48'	127° 32'	c	4.2	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 11	23-14-21	40° 51'	126° 32'	c	4.1	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
CIT	May 12	13-59-19	37.63°	118.97°	c	3.3	Northwest of Bishop.
36	May 12	15-29-28	37° 38'	118° 58'	b	3.8	Northwest of Bishop.
-	May 12	17-37-00	41° 17'	126° 58'	c	4.4	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
74	May 12	21-50-10	40° 51'	126° 07'	b	3.9	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 13	05-43-16	40° 39'	127° 36'	a	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 13	08-47-37	40° 49'	127° 29'	b	4.6	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 13	18-19-12	38° 32'	121° 56'	c	-	North of Berkeley.
-	May 13	18-45-44	40° 55'	126° 49'	c	3.7	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 14	19-31-34	40° 53'	127° 06'	b	4.7	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
37	May 15	08-20-55	37° 23'	121° 50'	b	2.3	Northeast of San Jose.
-	May 16	12-05-04	40° 32'	126° 22'	c	3.6	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 17	03-21-52	40° 50'	127° 20'	c	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	May 17	06-34-46	40°.5	126°.0	d	3.7	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
38	May 17	20-09-30	38° 04'	122° 33'	c	2.3	North of San Francisco.
-	May 18	08-51-03	40° 45'	126° 55'	c	4.4	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 18	09-37-55	40° 16'	127° 42'	b	4.4	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
39	May 18	11-37-50	38° 32'	118° 43'	c	3.8	Vicinity of Hawthorne, Nev.
-	May 18	19-10-57	41°.8	128°.0	d	3.9	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 18	23-57-28	40° 45'	126° 40'	b	4.1	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
40	May 19	08-32-02	37° 52'	122° 15'	a	2.7	Berkeley. Felt in Montclair, Kensington, Berkeley. Maximum intensity IV in Berkeley, Oakland.
-	May 19	14-47-43	40° 44'	127° 02'	c	4.4	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 19	14-49-48	40° 48'	127° 20'	c	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
41	May 20	07-03-36	36° 48'	121° 37'	c	2.8	Northwest of Vineyard.
42	May 20	08-42-14	37°.9	122°.2	d	2.3	Northeast of Berkeley.
-	May 21	02-33-42	40°.7	127°.8	d	3.9	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 21	03-41-16	40° 29'	126° 47'	b	4.8	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 21	07-58-35	40° 35'	126° 40'	c	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 21	15-15-15	39° 34'	127° 12'	c	3.9	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)

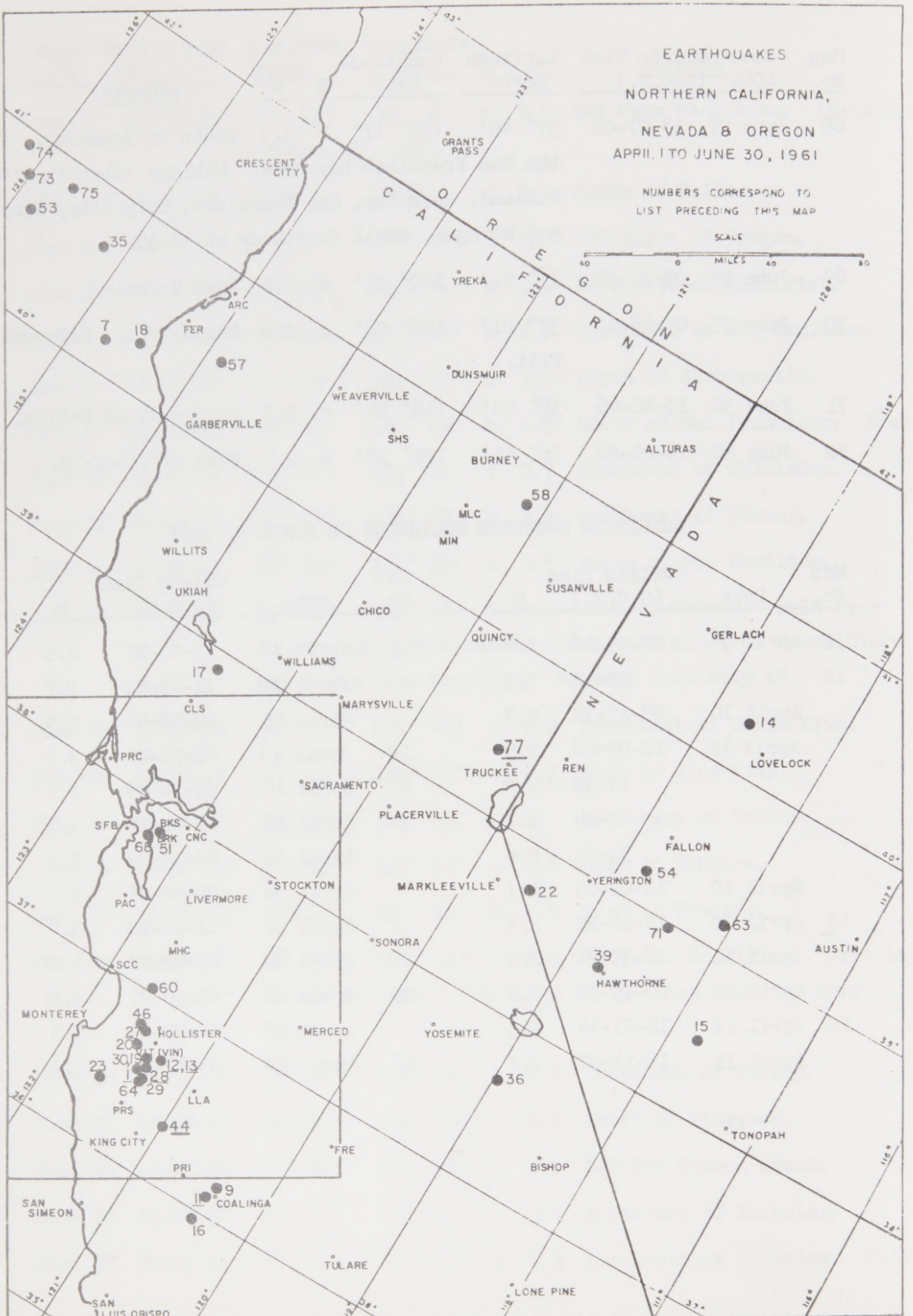
Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	May 21	15-18-08	40° 24'	126° 47'	a	4.2	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 21	19-45-38	40° 02'	127° 08'	c	3.8	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 24	12-59-54	40° 27'	126° 20'	b	4.0	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
-	May 24	13-34-31	43° 30'	127° 08'	c	-	Off coast of Oregon.
43	May 25	01-18-42	36° 45'	121° 26'	c	2.6	Northwest of Vineyard.
75	May 25	06-21-03	40° 47'	125° 39'	c	3.6	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
44	May 25	14-19-05	36° 20'	121° 00'	c	3.4	Northeast of King City.
44	May 25	14-19-35	36° 20'	121° 00'	b	3.4	Northeast of King City.
45	May 26	04-15-24	36° 44'	121° 27'	c	2.8	South of Hollister. Felt.
46	May 26	12-58-35	36° 47'	121° 33'	c	3.5	Southwest of Hollister. Felt by several in Salinas and Hollister. Maximum intensity IV in Hollister.
-	May 29	01-48-43	35° 41'	117° 43'	c	3.5	South of China Lake.
8	May 29	17-24-04	38° 05'	122° 28'	c	1.5	North of San Francisco.
47	May 30	19-55-24	38°.2	122°.0	d	2.9	Southeast of Fairfield.
48	June 1	06-47-20	36° 20'	121° 19'	b	2.7	Northwest of King City.
49	June 1	14-11-30	36° 27'	121° 12'	c	2.6	North of King City.
50	June 3	00-26-16	37° 49'	122° 11'	b	2.4	Southeast of Berkeley.
51	June 3	04-00-40	37° 50'	122° 13'	b	3.3	Felt. Near Berkeley. Maximum intensity IV in Daly City, Canyon and Oakland.
52	June 3	06-15-52	37° 25'	121° 43'	c	2.7	Northwest of Mt. Hamilton.
-	June 4	10-38-50	40°.5	128°.3	d	4.3	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
53	June 5	09-47-34	40° 35'	125° 50'	c	3.5	Off Cape Mendocino. (Sequence of Apr. 29, 1961.)
54	June 5	11-20-56	39°.2	118°.8	d	3±	South of Fallon.
-	June 6	03-46-09	42° 58'	128° 28'	c	4.6	Off coast of Oregon.
55	June 7	22-16-58	36° 57'	121° 34'	a	2.5	Northwest of Hollister.
56	June 9	05-28-52	37° 32'	121° 20'	a	2.5	Northeast of Mt. Hamilton.
57	June 9	17-13-06	40° 29'	123° 55'	b	3.1	North of Garberville.
-	June 9	18-55-49	38° 00'	122° 29'	b	1.9	North of San Francisco. Blast?
13	June 11	20-21-03	36° 42'	121° 20'	c	2.7	Southwest of Hollister.
58	June 11	22-58-30	40° 44'	121° 09'	b	3.4	Southeast of Burney.
59	June 14	10-53-42	37° 26'	121° 39'	b	2.8	North of Mt. Hamilton.
60	June 14	21-56-06	37° 01'	121° 38'	b	3.4	West of Gilroy. Felt over an area of approximately 400 square miles of Santa Clara and Santa Cruz Counties. Maximum intensity IV.
61	June 15	16-40-59	36° 54'	121° 48'	c	2.6	Southeast of Santa Cruz.
62	June 18	12-50-59	36° 11'	120° 50'	c	2.1	East of King City.
63	June 20	08-38-06	39° 10'	118° 03'	c	3±	Southeast of Fallon.
77	June 20	12-28-50	39° 19'	120° 16'	c	2.8	West of Truckee.
77	June 24	16-06-28	39° 19'	120° 22'	b	2.4	West of Truckee.
64	June 25	13-15-26	36° 29'	121° 21'	c	3.6	South of Hollister. Felt in Hollister area. Intensity IV $7\frac{1}{2}$ miles south of Harris Ranch.
65	June 26	04-57-58	36° 58'	121° 40'	c	2.2	Southwest of Gilroy.
28	June 26	07-03-33	36° 36'	121° 22'	c	2.5	South of Vineyard.
-	June 26	11-30-22	35° 46'	122° 00'	c	2.5	Off San Simeon coast.
66	June 26	13-46-06	38° 11'	122° 05'	b	2.4	Northeast of Berkeley.
67	June 27	02-57-53	37° 51'	122° 11'	b	2.9	Southeast of Berkeley. Felt.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
68	June 27	18-27-08	37° 49'	122° 17'	b	3.5	South of Berkeley. Felt in the San Francisco Bay area. Maximum intensity IV, Oakland, Berkeley, San Francisco, Daly City, Canyon and Moraga. Small foreshock at 17-35.
69	June 27	22-23-58	37° 52'	122° 21'	a	2.1	Near Berkeley.
70	June 29	07-18-32	37° 01'	122° 28'	c	2.8	Santa Cruz. Off coast. Felt.
71	June 30	10-46-06	38° 58'	118° 25'	c	3.3	Southeast of Fallon.
72	June 30	19-00-28	36° 45'	121° 30'	b	2.7	West of Vineyard.

HOLLISTER SEQUENCE BEGINNING ON APRIL 9, 1961

Map No.	Date	Origin Time (G.C.T.)	M
12	April 9	07-23-16	5.6
12		25-41	5.5
	April 10	08-17-33	2.7
	April 10	12-09-08	2.9
		13-39	2.2
		19-14	2.7
		30-03	2.6
	April 10	13-02-05	2.7
13	April 10	17-18-25	3.2
	April 10	18-37-21	2.5
	April 11	00-19-36	2.3
13	April 11	16-51-44	3.3
	April 11	18-14-27	2.7
	April 12	13-05-17	2.5
	April 12	21-47-51	2.7
	April 13	09-08-51	2.5
12	April 13	22-58-25	3.0
19	April 15	03-24-09	3.1
20	April 16	11-01-17	3.4
	April 19	09-18-29	2.3
	April 26	09-50-01	2.7
1	April 27	11-16-10	3.4
28	April 28	01-02-52	4.2
29	April 28	03-56-25	3.2
	April 28	14-05-50	3.5
27	April 29	03-17-01	3.1


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
PAC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
SONORA
MHC
SCC
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO
74
73
75
53
35
7
18
57
58
17
14
77
60
46
27
20
30
23
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28
64
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44
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11
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22
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71
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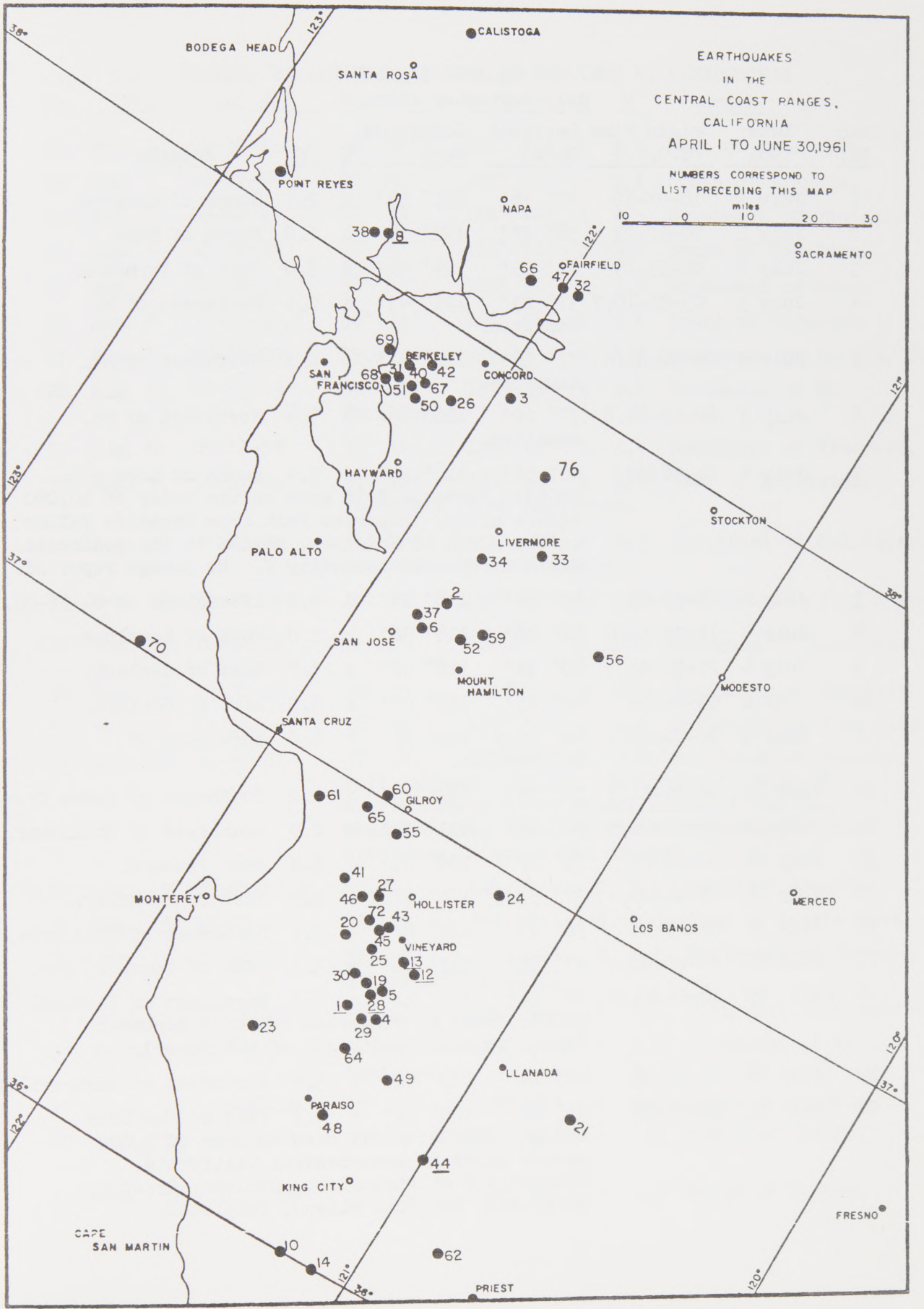
36
68
51
12,13
(VIN)

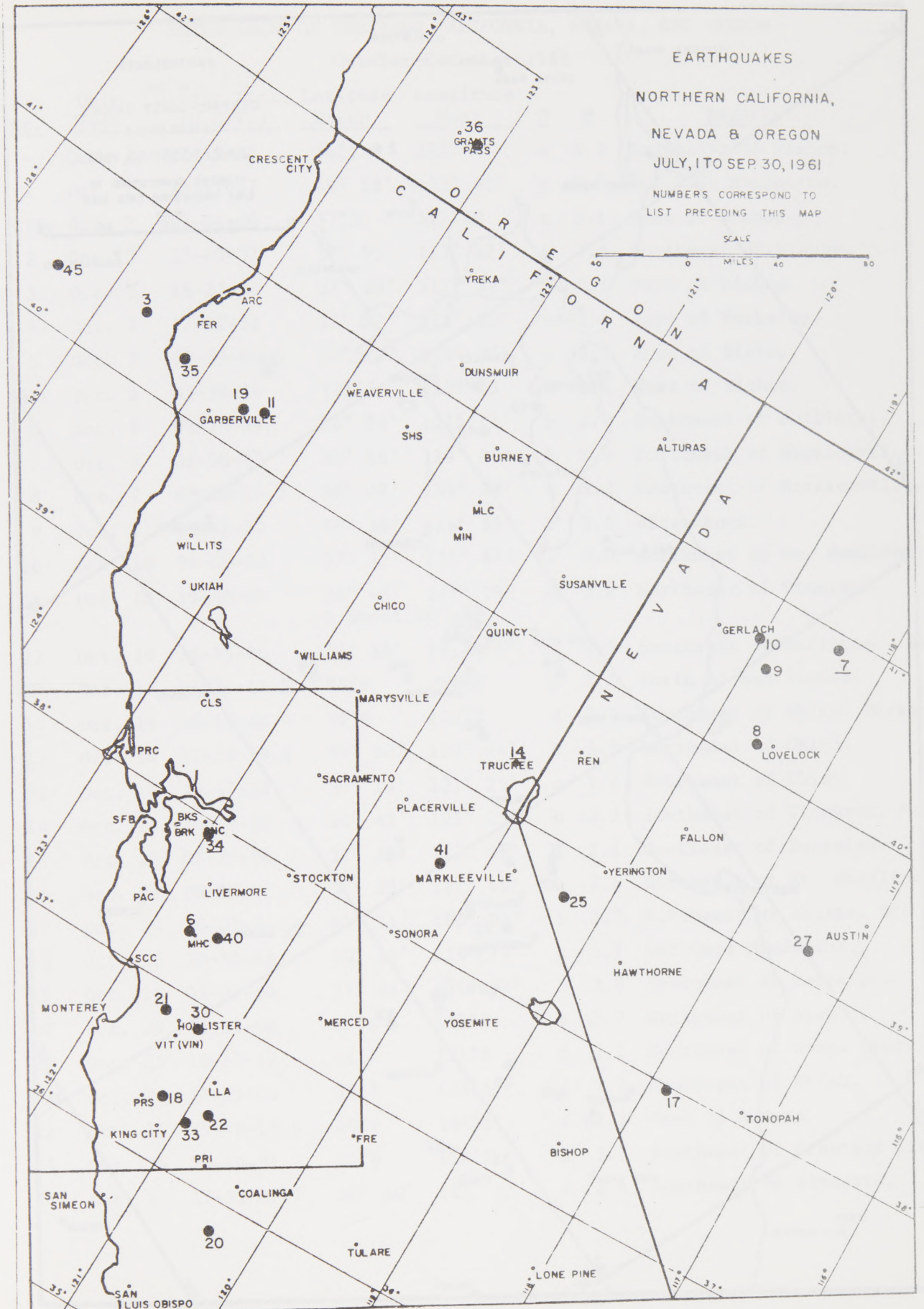

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
APRIL 1 TO JUNE 30, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
VINEYARD
LOS BANOS
MERCED
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
PRIEST
123°
122°
121°
120°
38°
37°
36°

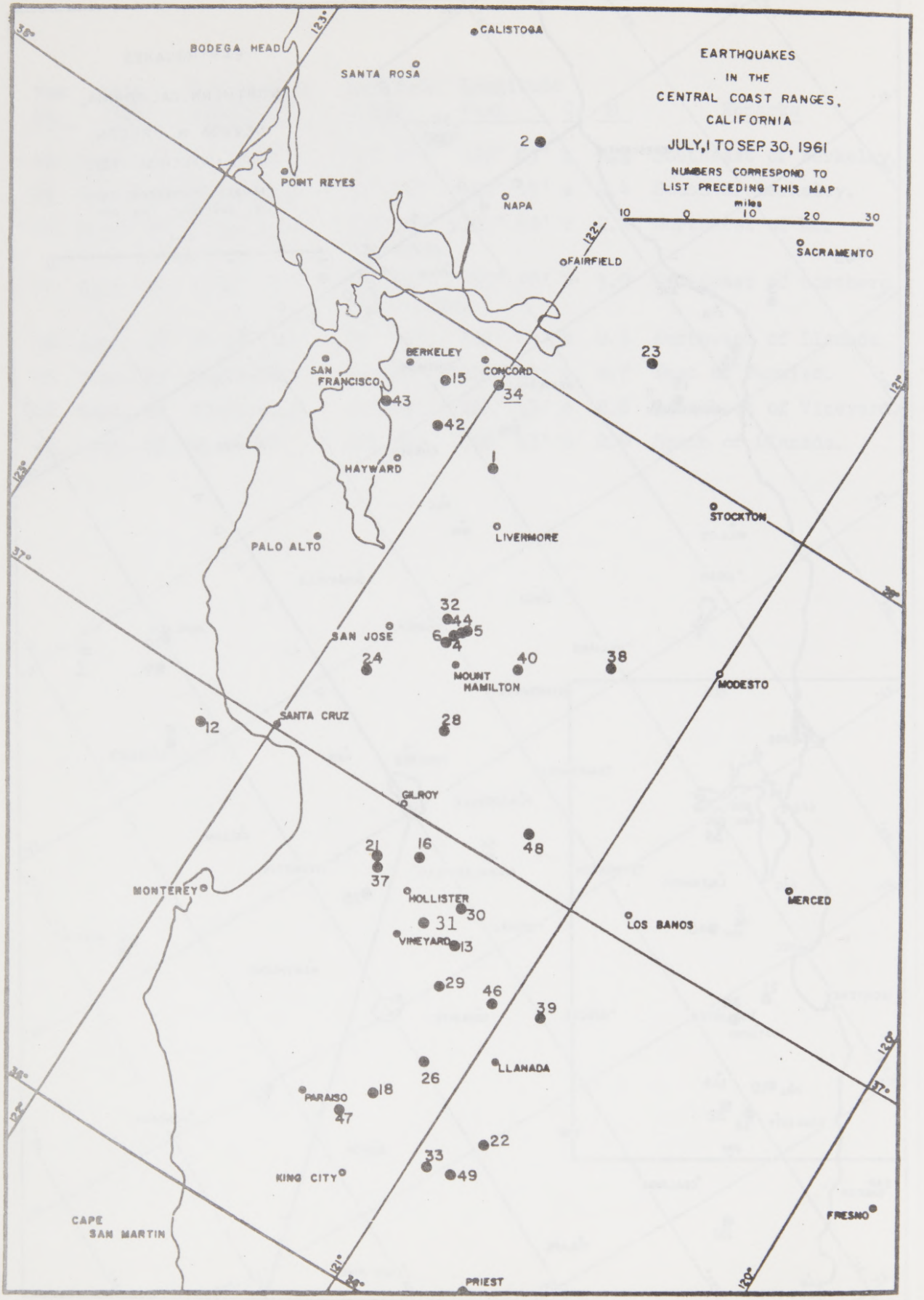
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
July-September 1961

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
1	July 1	18-07-32	37° 46'	121° 53'	c	2.5	South of Concord.
2	July 1	20-32-21	38° 27'	122° 17'	c	2.2	North of Napa.
3	July 2	08-53-19	40° 25'	124° 40'	d	3.0	West of Ferndale.
4	July 3	03-32-10.7	37° 23'	121° 43'	a	2.4	Northwest of Mt. Hamilton.
5	July 3	03-52-25.6	37° 26'	121° 41'	c	2.5	Northwest of Mt. Hamilton.
6	July 3	04-10-08.8	37° 22'	121° 43'	b	3.4	Northwest of Mt. Hamilton.
7	July 4	04-56-00	40° 54'	118° 24'	d	5.4	North of Lovelock. USCGS: Probable felt area on the order of 10,000 square miles. Reported felt from Paradise Valley in the north to Lovelock, Nevada to the southwest. Maximum reported intensity V. No damage reported.
7	July 4	05-35-05	40° 54'	118° 24'	d	4.0	Aftershock of 04-56-00.
8	July 4	11-09-11.0	40° 08'	118° 36'	b	5.0	West of Lovelock.
9	July 4	21-31-21	40° 35'	118° 50'	c	3.7	East of Gerlach.
10	July 6	03-42-32	40° 45'	119° 00'	c	3.9	East of Gerlach.
11	July 9	09-02-28.1	40° 17.5'	123° 25'	c	4.0	Northeast of Garberville.
12	July 11	06-25-11.7	36° 56'	122° 10'	c	2.2	Southwest of Santa Cruz.
13	July 13	23-00-09.5	36° 47'	121° 14'	b	2.0	Southeast of Hollister.
14	July 14	00-13-01	39° 17'	120° 13'	c	3.4	Near Truckee.
15	July 14	05-34-09.4	37° 53.5'	122° 07.5	c	2.3	East of Berkeley.
16	July 16	07-15-53	36° 55	121° 27'	c	2.4	Northwest of Hollister.
17	July 20	16-25-48.4	37° 58'	117° 52'	c	3.4	West of Tonopah, Nev.
18	July 22	18-01-55.0	36° 24'	121° 12'	c	4.0	Northeast of Paraiso. USCGS: Felt at Pinnacles National Monument (about 25 miles southeast of Hollister).
19	July 23	07-54-28	40° 14'	123° 42'	b	3.4	Northeast of Garberville.
20	July 31	00-07-08	35° 49'	120° 22'	c	4.7	Felt at San Luis Obispo. USCGS: Felt over an area of 5,000 square miles of west-central California. Intensity V at Atascadero, Cholame, Creston, Parkfield, San Luis Obispo, Templeton.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
21	Aug. 1	01-36-33	36° 52'	121° 33'	b	3.0	West of Hollister.
22	Aug. 1	06-12-54.5	36° 26'	120° 51'	c	3.1	South of Llanada.
23	Aug. 2	09-32-49.5	38° 10'	121° 40'	c	2.5	Northeast of Concord.
24	Aug. 3	13-38-38	37° 13'	121° 52'	b	2.1	South of San Jose.
25	Aug. 4	11-28-17.7	38° 43'	119° 20'	c	3.9	Southeast of Reno.
26	Aug. 4	13-22-32.7	36° 32'	121° 08'	b	2.4	South of Vineyard.
27	Aug. 4	16-56-09.1	39.2°	117.4°	d	4.5	Southwest of Austin, Nev.
28	Aug. 5	07-43-49	37° 11'	121° 35'	b	2.4	Southeast of Mt. Hamilton.
29	Aug. 6	05-14-12	36° 41'	121° 12'	b	2.4	Southeast of Vineyard.
30	Aug. 7	01-57-01	36° 52'	121° 16'	b	3.3	East of Hollister. Intensity IV at Hollister.
31	Aug. 10	16-43-41	36° 48'	121° 20'	c	2.7	Southeast of Hollister. Intensity IV at Hollister.
14	Aug. 12	04-57-20	39° 16'	120° 12'	b	4.0	Near Truckee. III at Norden.
CIT	Aug. 12	16-34-19	36.22°	118.37°	b	3.1	Southwest of Lone Pine.
32	Aug. 16	22-31-29	37° 25'	121° 45'	b	2.8	Northeast of San Jose.
33	Aug. 17	17-14-45	36° 20'	120° 57'	b	3.1	Northeast of King City.
34	Aug. 18	01-30-37	37° 56'	122° 00'	b	3.9	Southeast of Concord. Felt Oakland. USCGS: Felt over an area of approximately 1,500 square miles of the San Francisco Bay area. Maximum intensity V. At Pittsburg, a patio was cracked.
35	Aug. 19	06-21-54.9	40.3°	124.2°	d	3.4	South of Arcata.
36	Aug. 23	17-59-47	42.4°	123.2°	d	4.6	East of Grants Pass.
34	Aug. 25	17-20-25	37° 56'	122° 00'	c	2.7	Southeast of Concord. Aftershock of 0130.
37	Sept. 5	14-08-40.7	36° 51'	121° 32'	c	2.4	Northwest of Vineyard.
38	Sept. 5	22-46-34	37° 32'	121° 16'	c	2.8	Northeast of Mt. Hamilton.
39	Sept. 10	22-38-12	36° 45'	120° 54'	c	2.9	North of Llanada.
40	Sept. 13	11-54-44	37° 24'	121° 30'	c	3.0	Northeast of Mt. Hamilton.
41	Sept. 16	10-18-55	38° 29'	120° 20'	c	3.3	North of Sonora.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
42	Sept. 16	15-36-18	37° 47'	122° 05'	b	2.1	Southeast of Berkeley.
43	Sept. 19	04-21-01.4	37° 46'	122° 15'	a	2.4	South of Berkeley.
44	Sept. 20	09-54-08.9	37° 24'	121° 42'	c	2.3	Northwest of Mt. Hamilton.
45	Sept. 21	19-20-08.4	40° 22'	125° 28'	b	3.9	Off coast of northern California.
46	Sept. 24	08-13-31.4	36° 43'	121° 03'	b	2.5	Northwest of Llanada.
47	Sept. 27	02-02-06.3	36° 20'	121° 15'	c	2.7	East of Paraiso.
48	Sept. 27	19-51-42.9	37° 05'	121° 13'	c	2.6	Northeast of Vineyard.
49	Sept. 29	15-39-58	36° 20'	120° 53'	b	2.4	South of Llanada.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY, 1 TO SEP. 30, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
CLS
PRC
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
SFB
BKS
BRK
MHC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VIT (VIN)
PRS
LLA
KING CITY
TONOPAH
FRE
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JULY, 1 TO SEP. 30, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
VINEYARD
LOS BANOS
MERCED
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
PRIEST
123°
122°
121°
120°
38°
37°
36°
2
23
15
34
43
42
1
32
44
5
6
4
24
40
38
12
28
48
21
16
37
31
30
13
29
46
39
26
18
47
22
33
49

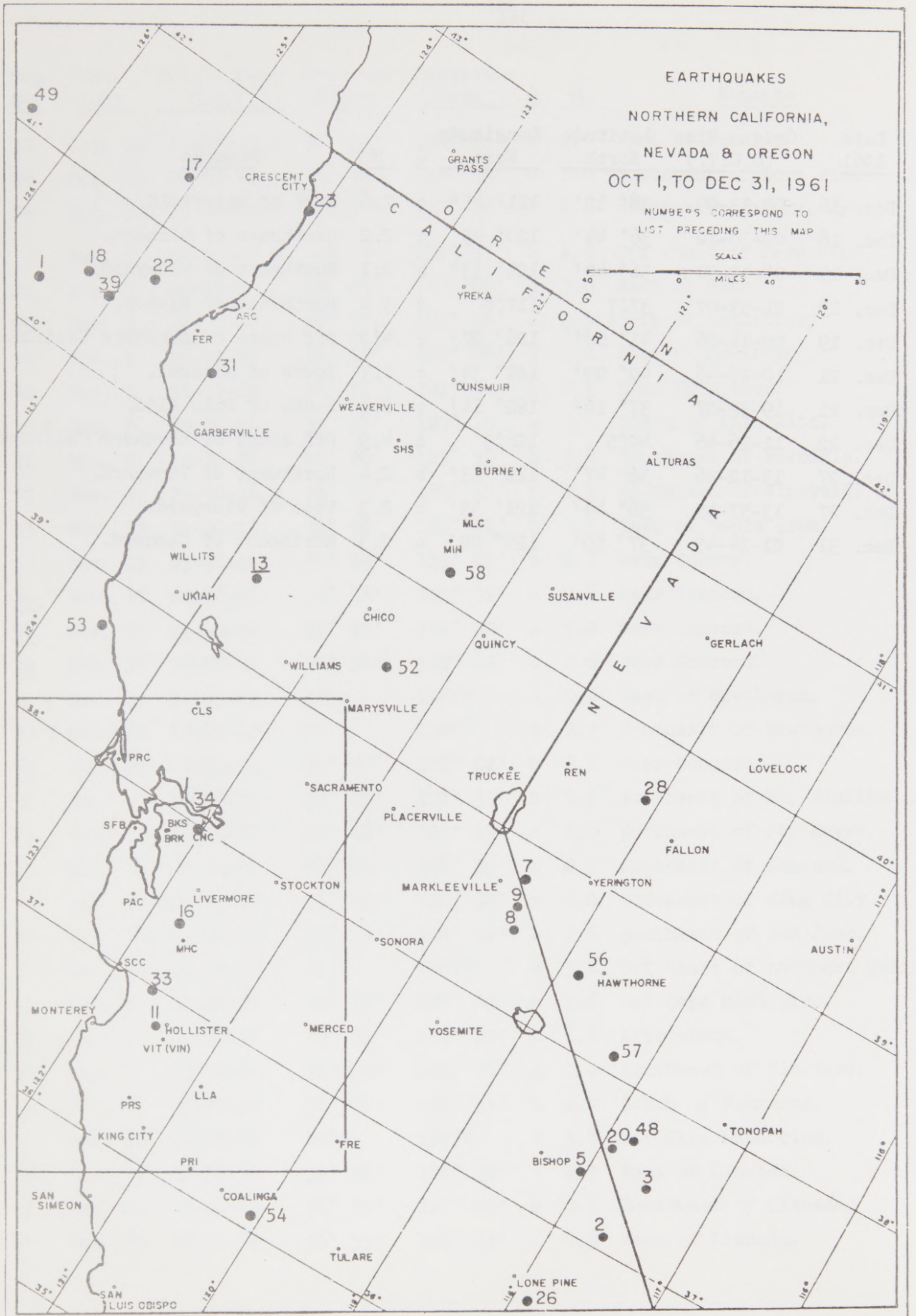
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

October-December 1961

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
-	Oct. 1	17-16-32	36°.5	117°.0	d	4.2	Southeast of Bishop.
1	Oct. 1	23-17-47	40° 18'	125° 32'	c	3.9	Off Cape Mendocino.
CIT	Oct. 2	07-04-00	37°.5	117°.83	c	3.1	East of Bishop.
2	Oct. 2	12-49-37	37° 05'	117° 37'	c	3.5	Southeast of Bishop.
3	Oct. 2	16-22-28	37° 28'	117° 32'	b	3.7	East of Bishop.
4	Oct. 2	17-12-51	37° 53'	122° 01'	b	2.0	East of Berkeley.
5	Oct. 3	02-59-08.5	37° 22'	118° 02'	c	3.8	East of Bishop.
CIT	Oct. 3	02-59-16	37°.35	118°. 73	b	3.6	West of Bishop.
6	Oct. 4	02-26-59	36° 34'	121° 17'	b	2.4	Southeast of Hollister.
7	Oct. 6	01-00-52	38° 48'	119° 36'	b	3.9	Northeast of Markleeville.
8	Oct. 7	07-22-16.5	38° 28'	119° 29'	c	3.2	Southeast of Markleeville.
9	Oct. 9	02-41-23	38° 38'	119° 33'	b	3.5	Aftershock.
10	Oct. 10	04-29-02	37° 23'	121° 47'	c	2.0	Northwest of Mt. Hamilton.
11	Oct. 10	19-20-04	36° 48' h about 10 km.	121° 29'	b	3.2	Northwest of Vineyard.
12	Oct. 10	19-22-06	36° 46'	121° 34'	a	2.2	Southwest of Hollister. Blast?
59	Oct. 12	06-31-11.2	35°.8	121°.3	d	2.3	North of San Simeon.
13	Oct. 14	06-46-48	39°.0	122°.7	d	2.7	Southeast of Ukiah. Foreshock.
13	Oct. 14	12-52-59.6	39° 30'	122° 44'	b	3.5	Northeast of Ukiah.
52	Oct. 15	23-47-32	39° 26'	121° 25'	c	2.7	Southeast of Chico.
14	Oct. 16	14-19-35	36° 42'	121° 25'	b	2.3	Southwest of Vineyard. Felt.
15	Oct. 18	07-24-08	37° 42'	122° 08'	b	2.1	Southeast of Berkeley.
16	Oct. 19	08-08-47	37° 25'	121° 46'	b	3.5	Northwest of Mt. Hamilton.
17	Oct. 19	20-05-34.5	41° 21'	125° 03'	b	3.7	Northwest of Arcata. Off coast.
18	Oct. 20	10-18-48	40° 30'	125° 17'	c	3.7	Off Cape Mendocino.
19	Oct. 21	05-31-50	37° 47'	122° 04'	b	2.0	Southeast of Berkeley.
20	Oct. 24	06-31-06	37°.6	117°.9	d	3.2	Northeast of Bishop.
21	Oct. 25	10-17-12	36°.7	121°.8	d	2.1	Southeast of Santa Cruz.
53	Oct. 26	17-39-06	38°.7	123°.6	d	2.7	Southwest of Ukiah.
22	Oct. 26	21-49-18.5	40°.7	124°.8	d	3.3	West of Arcata.
23	Oct. 26	23-40-31	41°.6	124°.1	d	3.7	Southeast of Crescent City.
24	Oct. 27	17-31-07.7	36° 40'	121° 15'	c	2.6	Southeast of Vineyard.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
25	Oct. 29	11-47-33.1	36° 20'	120° 55'	c	2.0	East of Paraiso.
26	Oct. 31	00-00-42	36° 30'	117° 52'	c	3.6	Southeast of Lone Pine.
27	Oct. 31	23-54-27.6	36° 34'	122° 30'	c	2.0	Southwest of Santa Cruz.
-	Nov. 2	06-30-00.0	40° 10'	127° 35'	b	4.0	Off coast of Mendocino.
28	Nov. 3	06-09-13	39° 06'	119° 06'	d	3.0	East of Reno.
29	Nov. 3	23-00-00	36° 55'	121° 25'	c	2.5	North of Hollister.
54	Nov. 5	10-43-57	36° 02'	120° 06'	d	2.0	East of Coalinga
30	Nov. 7	01-00-08	36° 52'	121° 34'	b	2.7	Near Hollister.
55 $	Nov. 8	19-30-04	37° 14'	122° 13'	a	2.1	South of Palo Alto.
31	Nov. 9	12-10-26	40° 26'	123° 59'	b	3.8	Southeast of Ferndale.
32	Nov. 9	22-50-16.0	36° 35'	121° 15'	b	2.5	Southeast of Vineyard.
33	Nov. 12	04-20-11	36° 58'	121° 40'	b	3.7	East of Santa Cruz.
	Nov. 15	05-38-54	34° 09'	119° 01'	b	5.3	Kern County.
34	Nov. 17	02-16-56	37° 58'	122° 02'	a	3.8	Near Concord.
34	Nov. 17	03-40-54	37° 58'	122° 02'	a	3.0	Near Concord.
34	Nov. 18	07-08-10	37° 58'	122° 02'	b	2.6	Near Concord.
56 $	Nov. 19	12-03-43	38°.4	118°.9	d	2.9	West of Hawthorne.
57 $	Nov. 20	12-47-20	38°.1	118°.3	d	2.9	Southeast of Hawthorne.
34	Nov. 22	01-32-25	37° 58'	122° 02'	b	2.4	Near Concord.
35	Nov. 23	12-39-30	37° 26'	121° 33'	b	2.3	Northeast of Mt. Hamilton.
36	Nov. 27	02-18-13	38° 18'	123° 19'	c	2.0	Northwest of Pt. Reyes.
37	Nov. 28	06-07-02	38° 03'	121° 59'	b	2.5	Northeast of Concord.
-	Nov. 29	04-49-03	35° 09'	120° 08'	c	3.0	Southeast of King City.
38	Nov. 29	13-30-12	37° 18'	121° 51'	b	2.6	Southeast of San Jose.
-	Dec. 2	13-22-32	41°.8	126°.8	d	3.8	Off coast of northern California.
39	Dec. 4	10-26-21	40° 27'	125° 02'	b	3.8	Off Cape Mendocino.
39	Dec. 4	12-26-26	40° 27'	125° 02'	b	3.4	Aftershock.
40	Dec. 4	19-56-34	36° 36'	121° 17'	c	2.0	Southeast of Vineyard.
41	Dec. 6	03-27-30	36° 26'	121° 51'	b	2.4	South of Monterey.
-	Dec. 10	00-03-41	40°.5	127°.6	d	3.8	Off Cape Mendocino.
42	Dec. 12	20-38-40	36° 36'	120° 38'	c	2.7	East of Llanada.
43	Dec. 14	07-28-44	36° 29'	121° 05'	b	2.1	Southwest of Llanada.
44	Dec. 15	09-41-42	36° 35'	121° 12'	c	2.5	West of Llanada.

Map No.	Date 1961	Origin Time (G.C.T.)	Latitude North	Longitude West	Q	M	Remarks
45	Dec. 16	00-33-09	38° 10'	121° 45'	c	2.6	East of Fairfield.
46	Dec. 18	02-38-12	36° 44'	120° 45'	c	2.2	Northeast of Llanada.
47	Dec. 19	09-43-50	36° 40'	121° 13'	b	2.1	Southeast of Vineyard.
48	Dec. 19	21-53-07	37°.7	117°.8	d	3.4	Northeast of Bishop.
49	Dec. 19	22-14-06	41° 08'	126° 27'	c	4.0	Off coast of northern California.
58	Dec. 21	10-25-48	40° 09'	121° 34'	c	2.7	South of Mineral.
50	Dec. 21	19-32-07	37° 16'	122° 14'	c	2.1	South of Palo Alto.
-	Dec. 22	11-26-46	40°.5	126°.3	d	4.9	Off coast of northern California.
51	Dec. 27	13-12-36	36° 47'	121° 33'	b	2.4	Northwest of Vineyard.
51	Dec. 27	13-57-45	36° 46'	121° 33'	b	2.3	West of Vineyard.
34	Dec. 31	21-24-45	37° 59'	122° 02'	c	2.3	Northeast of Concord.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCT 1, TO DEC 31, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
FER
ARC
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
CLS
PRC
SACRAMENTO
PLACERVILLE
SFB
BKS
BRK
CNC
TRUCKEE
REN
LOVELOCK
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
MHC
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
VIT (VIN)
MERCED
YOSEMITE
PRS
LLA
KING CITY
PRI
FRE
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO
1
2
3
5
7
8
9
11
13
16
17
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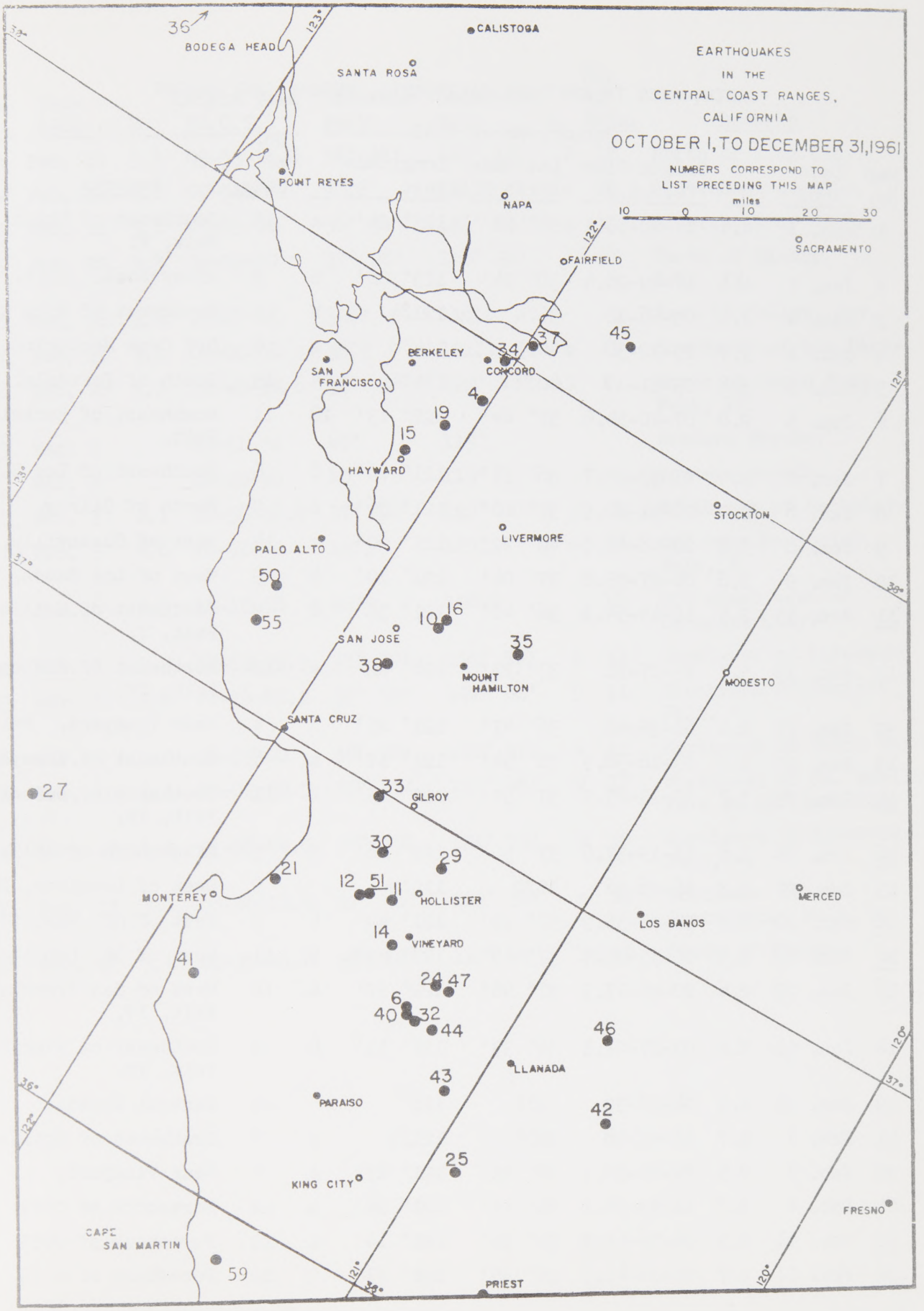
58

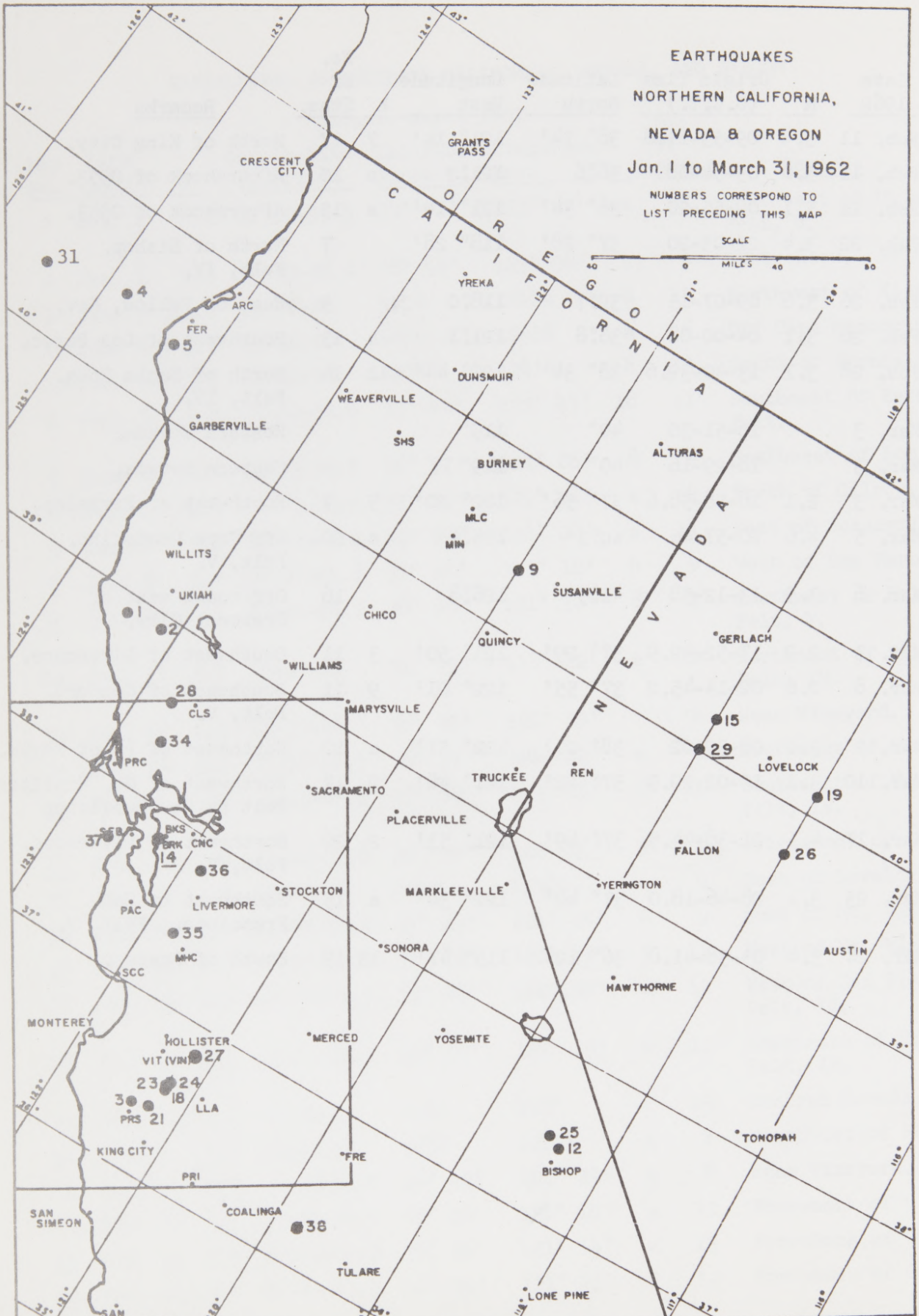

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
OCTOBER 1, TO DECEMBER 31, 1961
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
36
BODEGA HEAD
CALISTOGA
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
45
37
34
BERKELEY
CONCORD
SAN FRANCISCO
4
19
15
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
50
55
10
16
SAN JOSE
35
38
MOUNT HAMILTON
MODESTO
SANTA CRUZ
27
33
GILROY
30
29
21
12
51
11
MONTEREY
HOLLISTER
MERCED
LOS BANOS
14
VINEYARD
41
24
47
6
40
32
44
46
LLANADA
43
PARAISO
42
25
KING CITY
FRESNO
CAPE SAN MARTIN
59
PRIEST
123°
122°
121°
120°
37°
36°
38°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January-March 1962

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Jan. 1	4.1	17-20-59.5	38° 53'	123° 24'	a	15	Southeast of Ukiah. Felt, V.
2	Jan. 1	2.5	17-49-26.4	38° 54'	123° 08'	b	9	Aftershock. Felt.
3	Jan. 4	3.0	03-56-10	36°.4	121°.4	b	11	Northwest of King City.
4	Jan. 4	3.7	15-32-38	40°.5	124°.8	a	6	Off Cape Mendocino.
5 $	Jan. 5	3.8	05-21-17	40°.4	124°.4	4	13	South of Ferndale.
6	Jan. 5	2.8	07-40-54.6	37° 44'	122° 13'	18	11	Southeast of Berkeley. Felt.
7	Jan. 6	2.4	22-33-25.7	36° 57'	121° 06'	8	6	Southwest of Los Banos.
8	Jan. 8	2.4	08-51-20.9	37° 10'	121° 36'	a	9	North of Gilroy.
9	Jan. 8	3.6	10-48-49.0	40° 22'	121° 00'	a	14	West of Susanville.
10	Jan. 9	2.6	08-27-05.8	37° 04'	121° 10'	4	9	West of Los Banos.
11	Jan. 15	2.5	12-45-54.2	36° 48'	121° 30'	8	9	Southwest of Hollister. Felt, V.
12	Jan. 15	3.7	23-17-21	37° 25'	118° 22'	a	12	Northeast of Bishop. Felt, IV.
39	Jan. 17	2.0	01-35-46	36° 47'	121° 25'		4	Near Vineyard. Felt, IV
13	Jan. 23	2.0	23-16-38.5	36° 34'	121° 12'	a	6	Southeast of Vineyard.
14	Jan. 24	3.7	15-13-05.5	37° 50'	122° 15'	2	11	Southeast of Berkeley. Felt, IV.
14	Jan. 24	1.8	15-19-37.6	37° 50'	122° 16'	5	7	Aftershock of 1513. Felt.
15	Jan. 27	3.7	16-28-36	40°.2	119°.0		9	West of Lovelock, Nev.
16	Jan. 28	2.2	21-47-35.9	37° 19'	121° 44'	4	9	West of Mt. Hamilton.
16	Jan. 29	2.5	00-55-02.7	37° 19'	121° 43'	5	11	West of Mt. Hamilton.
17	Jan. 29	2.6	20-08-17.5	37° 46'	122° 32'	a	12	West of San Francisco. Felt, IV.
18	Jan. 31	3.9	03-17-21.3	36° 33'	121° 13'	8	15	Southeast of Vineyard. Felt, IV.
19	Jan. 31	4.0	04-07-32	40°.1	118°		13	Central Nevada.
11	Feb. 1	2.7	17-41-38	36°.8	121°.5	a	7	Southwest of Hollister.
20	Feb. 1	2.5	22-12-39.5	36° 43'	121° 23'	a	6	Near Vineyard.
21	Feb. 4	3.2	11-43-34.1	36° 25'	121° 16'	a	12	Foreshock of 0953.
22	Feb. 11	2.5	06-56-12.2	36° 35'	121° 14'	a	13	Foreshock of 0953.
22	Feb. 11	2.7	08-14-41.5	36° 35'	121° 13'	2	12	Foreshock of 0953.

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
23	Feb. 11	3.4	09-53-11.8	36° 34'	121° 14'	7	17	North of King City.
24	Feb. 11	3.0	09-54-08	36°.6	121°.2	a	10	Aftershock of 0953.
22	Feb. 11	3.1	09-55-20	36° 34'	121° 14'	a	15	Aftershock of 0953.
25	Feb. 22	3.4	22-03-20	37° 28'	118° 28'		7	North of Bishop. Felt, IV.
26	Feb. 26	3.6	09-07-15	39°.7	118°.0		9	East of Fallon, Nev.
27	Feb. 28	3.1	04-00-08	36°.8	121°.1	b	13	Southwest of Los Banos.
28	Feb. 28	3.1	13-40-32.6	38° 34'	122° 44'	11	14	North of Santa Rosa. Felt, IV.
29	Mar. 3		16-51-30	40°	119°			Western Nevada.
29	Mar. 3		18-29-16	40°	119°			Western Nevada.
30	Mar. 3	2.1	18-58-58.6	37° 56'	122° 20'	5	7	Northwest of Berkeley.
31$	Mar. 5	4.6	20-57-46	40°.3	125°.5	a	20	Off Cape Mendocino. Felt, V.
-	Mar. 6	3.9	13-12-58	41°.9	126°.8		16	Off coast west of Crescent City.
32	Mar. 7	2.9	17-52-49.9	37° 29'	121° 50'	3	11	Southwest of Livermore.
33	Mar. 8	2.6	02-14-45.2	37° 55'	122° 01'	9	11	Southeast of Concord. Felt, V.
34	Mar. 9	3.0	08-39-02	38° 20'	122° 37'	a	12	Northeast of Point Reyes.
35	Mar. 10	3.1	19-02-29.9	37° 22'	121° 46'	9	17	Northwest of Mt. Hamilton. Felt at Mt. Hamilton.
36	Mar. 17	4.1	21-38-44.5	37° 49'	121° 53'	2	20	Northwest of Livermore. Felt, V.
37	Mar. 23	3.1	08-46-18.0	37° 40'	122° 34'	a	15	Southwest of San Francisco. Felt, V.
38	Mar. 24	3.4	03-38-41.8	36° 12'	119° 47'	13	19	South of Fresno.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
Jan. 1 to March 31, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
CLS
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
MHC
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VIT (VIN)
PRS
LLA
KING CITY
FRE
BISHOP
TONOPAH
PRI
SAN SIMEON
COALINGA
TULARE
LONE PINE
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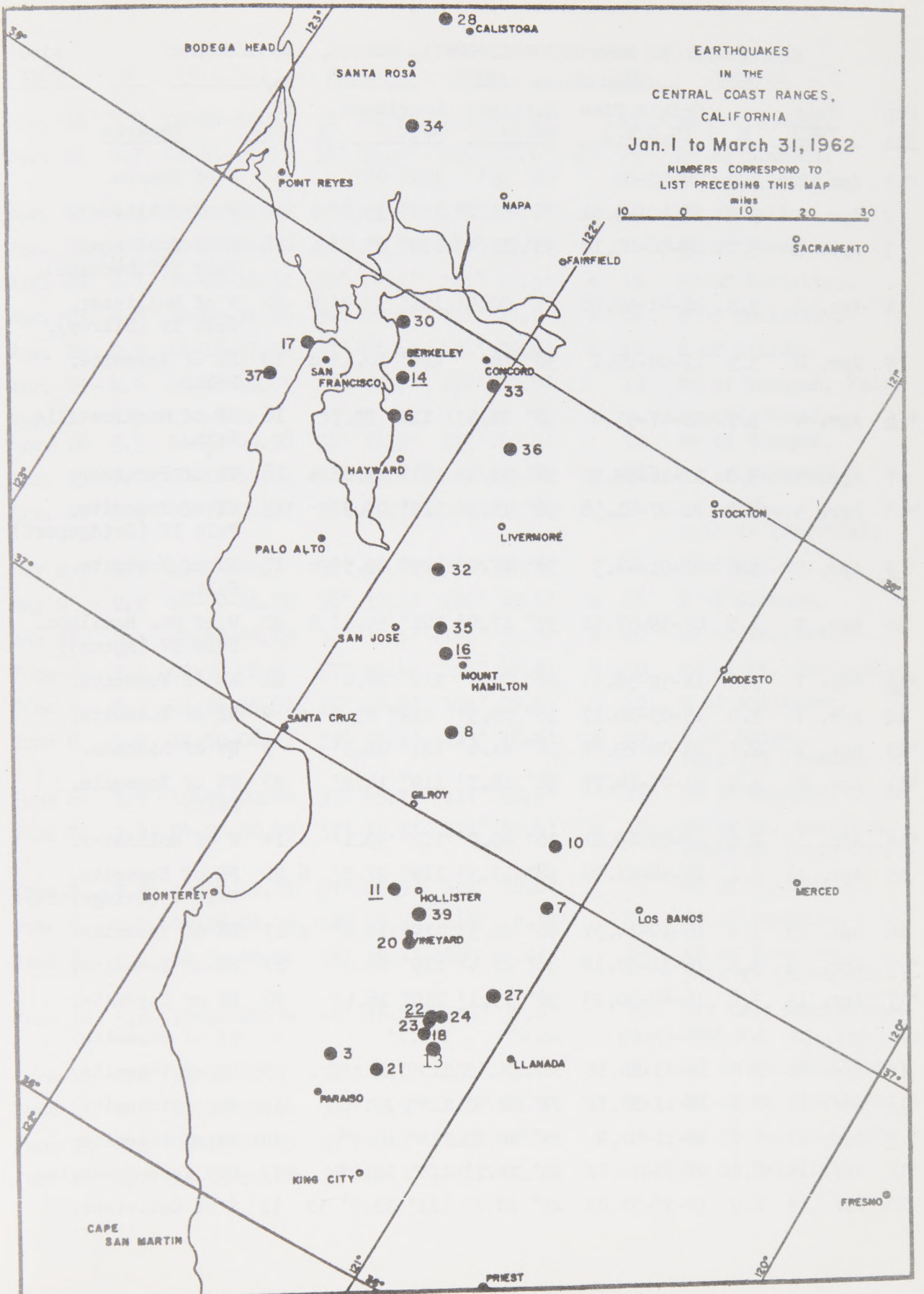
EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
Jan. 1 to March 31, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
BODEGA HEAD
SANTA ROSA
CALISTOGA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
FRESNO
CAPE SAN MARTIN
PRIEST
28
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123°
122°
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37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

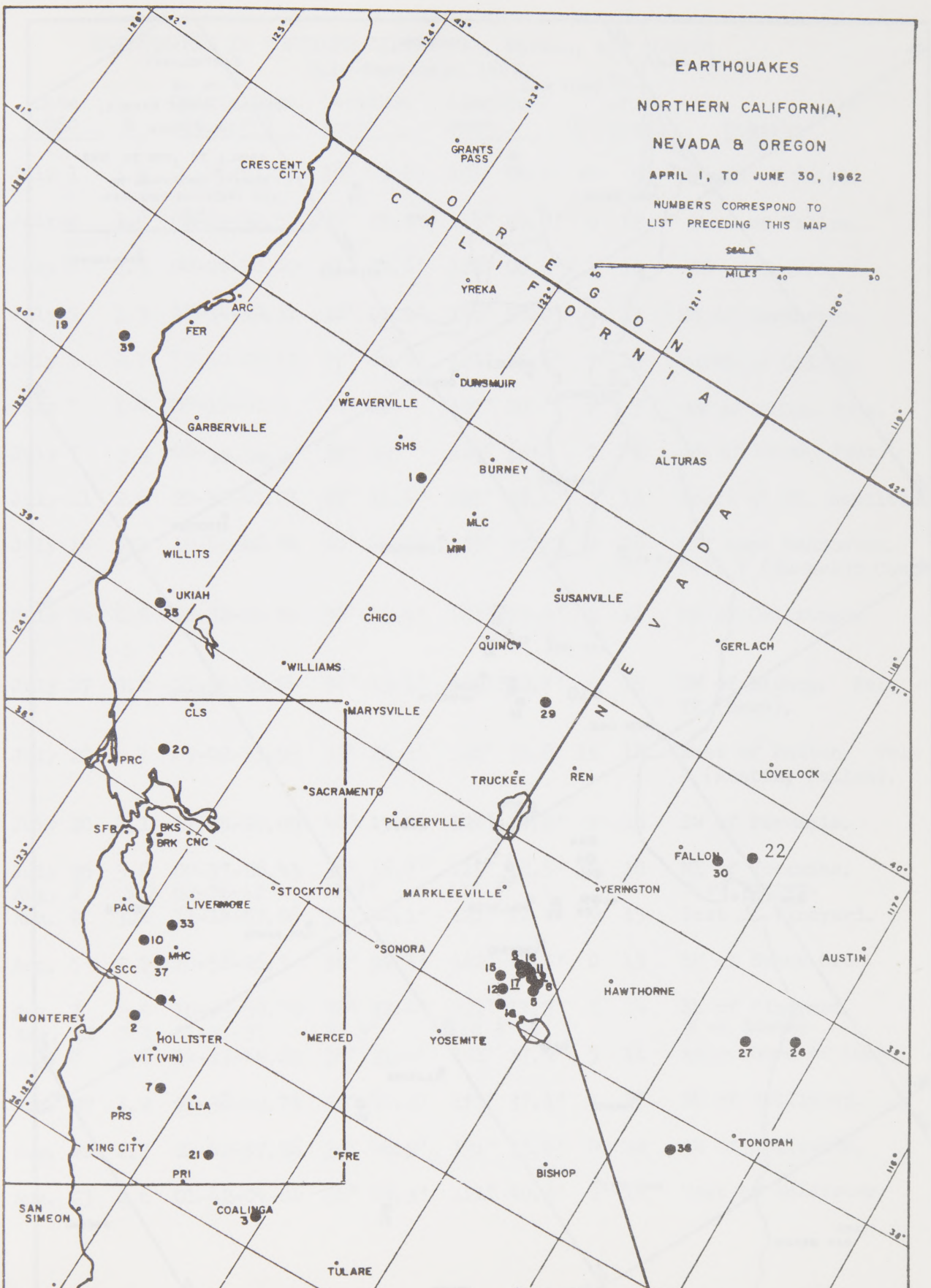
April-June 1962

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* 1	Apr. 1	3.0	00-52-02	40° 35'	122° 04'		4	S of Shasta.
2	Apr. 1	3.0	10-40-43.61	36° 51.7'	121° 39.8'	a	16	W of Hollister.
3	Apr. 2	3.7	03-06-03.16	36° 15.4'	120° 05.9'	a	16	E of Coalinga. Felt V(Tehachapi).
4	Apr. 2	3.5	16-41-57.28	37° 00.9'	121° 32.9'	b	20	N of Hollister. Felt IV (Gilroy).
5	Apr. 4	3.5	17-00-29.1	38° 16'	119° 10.1'	c	19	NE of Yosemite. Felt.
* 6	Apr. 4	3.5	21-47-55.4	38° 21.5'	119° 22.7'		16	SE of Markleeville. Felt.
7	Apr. 5	3.0	11-16-59.27	36° 35.9'	121° 13.0'	a	18	NE of Paraiso.
* 8	Apr. 5	4.1	21-27-51.58	38° 18.5'	119° 09.9'		19	NE of Yosemite. Felt IV (Bridgeport).
9	Apr. 5	3.6	22-01-44.3	38° 17.0'	119° 09.5'	c	17	NE of Yosemite. Felt.
10	Apr. 7	3.5	07-19-37.51	37° 17.0'	121° 54.5'	9	20	W of Mt. Hamilton. Felt IV (Aptos).
*11	Apr. 7	3.5	14-52-38.5	38° 20.0'	119° 16.0'		21	NE of Yosemite.
12	Apr. 7	3.0	15-03-10.17	38° 09.3'	119° 23.9'	c	9	NE of Yosemite.
*13	Apr. 7	2.7	23-00-29.87	36° 41.6'	121° 02.1'		9	NW of Llanada.
*11	Apr. 8	3.9	01-07-14.77	38° 18.7'	119° 14.2'		20	NE of Yosemite. Felt.
*14	Apr. 12	2.6	19-03-49.21	36° 49.9'	121° 39.1'		14	W of Hollister.
15	Apr. 13	5.1	15-38-51.94	38° 13.3'	119° 27.3'	6	21	NE of Yosemite. Felt V (Bridgeport).
16	Apr. 13	3.0	16-12-14.57	38° 21.3'	119° 18.8'	c	17	NE of Yosemite.
* 6	Apr. 13	3.5	16-31-30.18	38° 17.4'	119° 25.0'		17	NE of Yosemite.
*17	Apr. 13	3.8	16-40-00.23	38° 19.1'	119° 18.4'		20	NE of Yosemite.
Felt	Apr. 13	3.4	16-47-60	38.4°	119.2°		-	NE of Yosemite
18	Apr. 13	3.0	18-45-56.55	38° 04.4'	119° 20.10'	c	9	NE of Yosemite
*17	Apr. 13	3.6	19-17-39.71	38° 18.9'	119° 20.10'		16	NE of Yosemite
* 9	Apr. 13	4.2	20-21-03.9	38° 20.7'	119° 10.4'		19	NE of Yosemite
*19	Apr. 14	5.4	07-53-14.72	40° 16.1'	125° 18.6'		23	Off Cape Mendocino.
20	Apr. 14	3.0	19-37-37.05	38° 20.7'	122° 35.7'	13	12	S of Calistoga.

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* 9	Apr. 15	3.0	05-01-34.68	38° 21.7'	119° 09.9'		15	NE of Yosemite.
21	Apr. 15	4.7	08-41-02.32	36° 24.9'	120° 37.0'	21	23	SE of Llanada. Felt V (Idria).
*22	Apr. 17	4.3	12-19-13.85	39° 39.2'	118° 14.7'		19	NE of Fallon.
*17	Apr. 22	3.0	12-38-10.89	38° 21.3'	119° 19.7'		14	NE of Yosemite.
23	Apr. 22	2.7	21-02-19.11	36° 49.9'	121° 29.3'	c	15	SW of Hollister.
24	Apr. 23	2.8	22-00-51.96	36° 56.4'	121° 26.9'	b	14	N of Hollister.
25	Apr. 24	2.3	16-18-07.22	37° 00.1'	121° 29.8'	b	14	E of Gilroy.
*26	Apr. 25	4.6	08-48-49.05	38° 47.6'	117° 10.8'		19	NE of Tonopah. Felt.
CIT	Apr. 25	3.9	15-54-20	39.5°	117.2°	d		Austin, Nevada.
*27	Apr. 26	3.5	01-31-09.98	38° 38.9'	117° 30.6'		12	NW of Tonopah.
28	Apr. 29	2.7	20-11-54.63	36° 46.9'	121° 35.8'	7	18	NW of Vineyard.
*29	Apr. 29	3.8	20-37-26.97	39° 47.7'	120° 17.2'		14	NW of Reno. Felt IV (Portola).
*30	May 2	3.7	08-01-02.3	39° 30.6'	118° 27.3'		16	E of Fallon.
31	May 9	2.7	18-59-18.79	36° 39.1'	120° 42.4'	a	16	E of Llanada.
32	May 21	2.4	22-48-00.19	36° 33.5'	121° 14.3'	c	10	NE of Paraiso.
33	June 2	3.1	03-57-16.2	37° 26.4'	121° 48.8'	b	19	NW of Mt. Hamilton.
*34	June 3	2.4	03-28-55.51	36° 58.0'	121° 25.9'		12	N of Hollister.
35	June 6	5.2	17-50-06.21	39° 04.1'	123° 18.6'	5	20	S of Ukiah. Felt VII (Lakeport).
*36	June 6	3.7	19-46-02.86	37° 45.7'	117° 38.5'		11	SW of Tonopah.
37	June 7	3.8	04-20-58.89	37° 15.7'	121° 43.4'	b	18	SW of Mt. Hamilton. (Felt IV (Daly City).
*38	June 7	2.8	16-40-25.07	37° 07.5'	121° 18.8'		5	NE of Gilroy.
*17	June 8	4.2	06-28-04.19	38° 19.5'	119° 18.10'		20	NE of Yosemite.
* 9	June 8	3.6	08-34-48.64	38° 19.4'	119° 11.0'		18	NE of Yosemite. Felt IV (Bridgeport).
*39	June 10	3.8	12-36-28.04	40° 18.7'	124° 37.6		21	Off Cape Mendocino. Felt V.
*40	June 11	2.8	08-10-20.5	37° 16.0'	121° 43.0'		14	SW of Mt. Hamilton.
41	June 17	2.6	04-57-27.64	37° 23.9'	121° 44.9'	10	15	NW of Mt. Hamilton.
42	June 23	2.3	08-19-36.21	37° 23.8'	121° 48.5'	a	14	NW of Mt. Hamilton.
*43	June 24	2.7	15-03-50.08	38° 28.4'	122° 09.7'		7	NW of Fairfield.

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
44	June 27	2.9	22-07-24.46	36° 53.3'	121° 41.3'	b	14	SW of Gilroy.
*45	June 30	2.4	19-02-44.68	36° 46.3'	121° 35.7'		11	NW of Vineyard.

*Indicates epicenter determined with focal depth fixed as zero.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1, TO JUNE 30, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
MHC
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
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KING CITY
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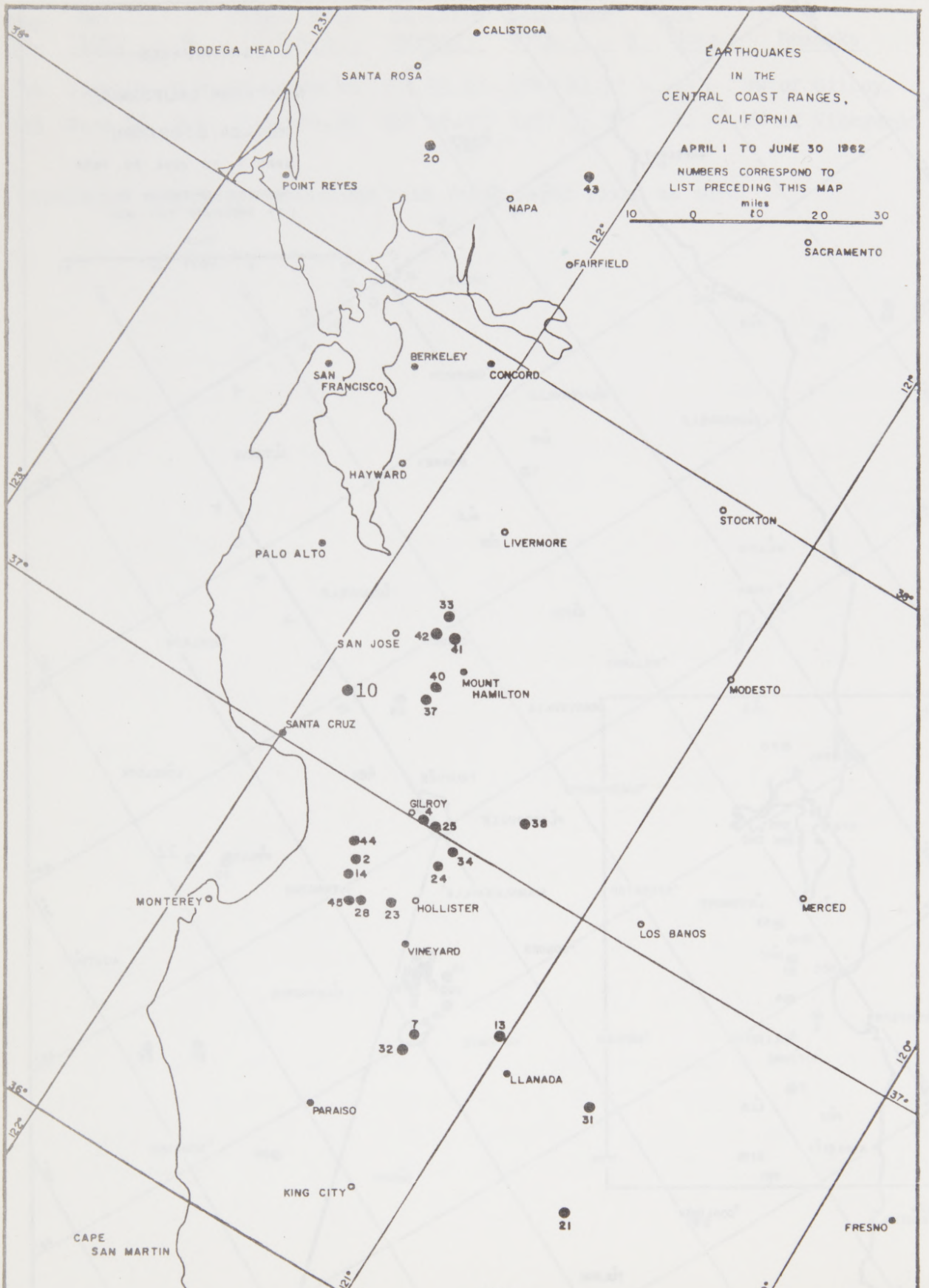
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
APRIL 1 TO JUNE 30 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
CONCORD
SAN FRANCISCO
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
123°
122°
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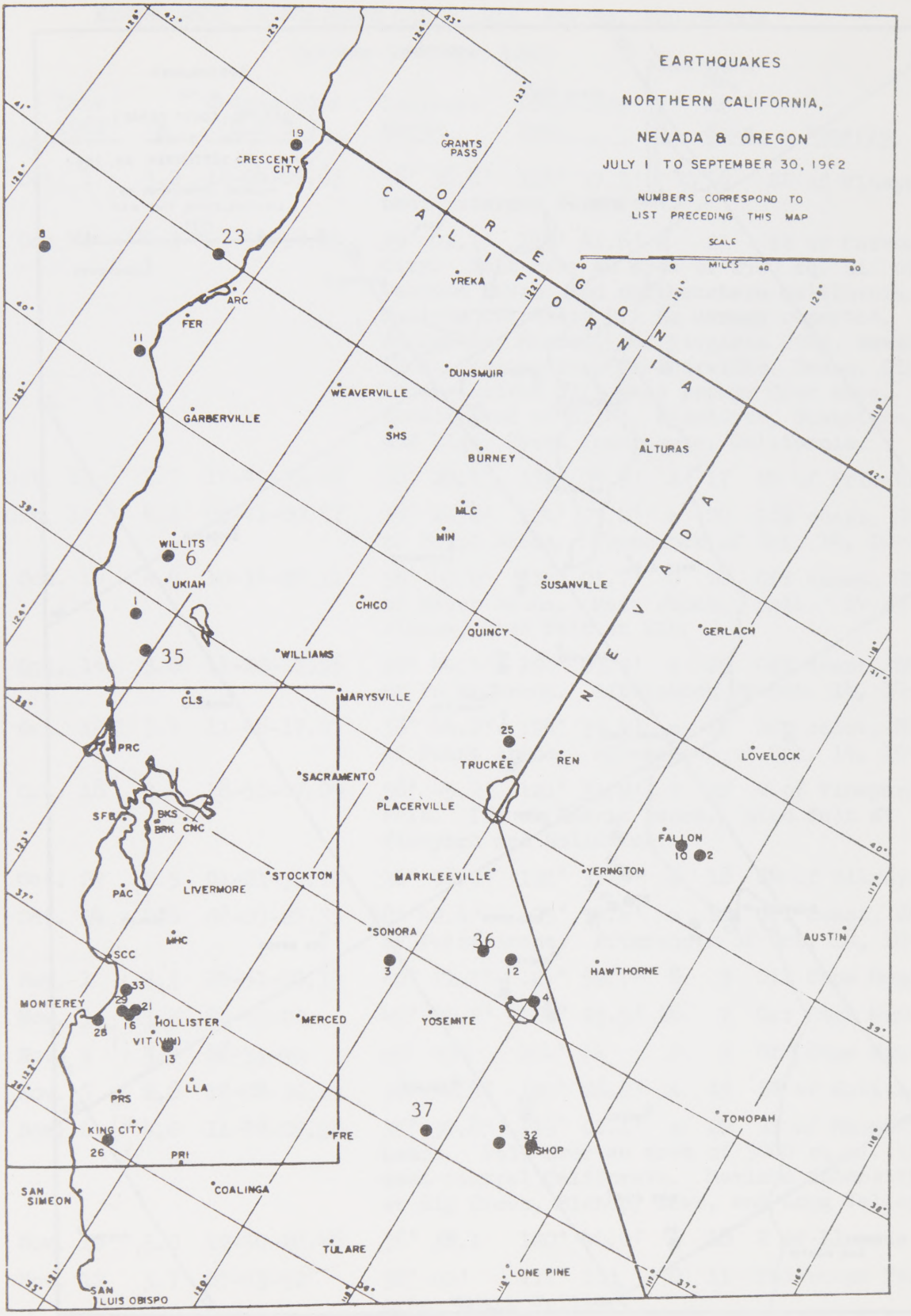
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
July-September 1962

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	July 1	3.4	01-06-51.15	38° 53.9'	123° 14.7'	30	9	South of Ukiah.
*2	July 2	3.6	01-03-40.57	39° 25.9'	118° 25.0'	0	12	East of Fallon.
3	July 4	3.5	08-26-38.20	37° 52.6'	120° 06.2'	1	10	SE of Sonora.
4	July 5	3.3	18-34-19.11	38° 07.1'	118° 56.0'	5	13	SW of Hawthorne.
5	July 5	2.7	19-50-02.12	37° 09.2'	121° 35.6'	7	12	North of Gilroy.
6§	July 7	2.8	08-18-05.2	39° 20'	123° 20'	2	7	NW of Ukiah. Felt.
6§	July 7	2.9	08-18-58.2	39° 20'	123° 20'	2	6	NW of Ukiah. Felt.
7	July 11	2.6	20-32-47.25	37° 14.4'	121° 38.4'	1	13	South of Mt. Hamilton.
8	July 14	5.1	19-43-46.24	40° 25.6'	125° 30.7'	30	18	Off Cape Mendocino. Felt V (Humboldt County).
35	July 16	2.9	02-33-34.00	38° 45.0'	123° 02.0'	2	16	NW of Calistoga.
*9	July 17	3.8	07-53-30.94	37° 13.1'	118° 38.7'	0	15	SW of Bishop. Felt IV (Laws).
10	July 20	4.7	09-02-13.93	39° 26.3'	118° 35.8'	15	18	East of Fallon. Felt V (Austin, Fallon).
11	July 20	4.1	17-15-24.00	40° 15.0'	124° 25.0'	2	19	SW of Ferndale.
12	July 26	3.9	00-37-26.43	38° 16.7'	119° 18.5'	10	18	NE of Yosemite.
CIT	Aug. 1	3.2	02-56-42	37.7°	118.3°			N of Bishop.
13	Aug. 2	3.1	11-14-57.06	36° 42.1'	121° 12.2'	9	15	East of Vineyard.
*14	Aug. 5	2.7	10-58-26.3	36° 52.7'	122° 17.5'	0	13	SW of Santa Cruz.
15	Aug. 7	2.5	10-43-59.49	36° 37.4'	121° 17.3'	5	14	SE of Vineyard.
CIT	Aug. 12	3.2	21-37-37	37.9°	118.3°			N of Bishop.
15	Aug. 8	2.6	14-13-44.22	36° 37.4'	121° 17.9'	5	11	Aftershock of 10-43.
16	Aug. 22	3.2	21-38-40.73	36° 45.7'	121° 37.1'	1	17	SW of Hollister.
*17	Aug. 22	2.7	21-42-57.56	36° 46.9'	121° 33.6'	0	10	SW of Hollister.
18	Aug. 23	2.6	01-42-04-81	36° 49.3'	121° 40.3'	2	14	West of Hollister.

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
19	Aug. 23	5.6	19-29-13.13	41° 51.0'	124° 20.0'	2	21	North of Crescent City. Felt VI (Crescent City, Smith River, Brookings).
20	Aug. 29	2.4	17-23-18.0	37° 21.0'	121° 43.0'	2	13	North of Mt. Hamilton.
21	Sept. 3	3.1	10-55-44.0	36° 48.0	121° 35.0'	2	13	West of Hollister. Felt (Hollister).
*22	Sept. 3	2.6	17-53-33.14	36° 27.7'	121° 04.4'	0	8	SW of Llanada. Felt (Hollister).
*23$	Sept. 4	4.9	17-17-22	41.0°	124.4°	0	19	West of Crescent City. Felt VI (Humboldt County).
23$	Sept. 4	4.0	17-32- 42	41.0°	124.4°	2	15	SW of Crescent City.
25	Sept. 10	3.0	23-39-19.39	39° 25.0'	120° 13.1'	16	9	North of Truckee.
26	Sept. 11	3.3	01-34-30-96	36° 02.1'	121° 14.2'	3	16	SW of King City.
27	Sept. 11	2.8	11-12-32.45	37° 53.3'	122° 02.5'	6	18	South of Concord. Felt V (Walnut Creek).
28	Sept. 14	3.0	00-49-49.92	36° 38.4'	121° 46.7'	2	17	East of Monterey.
29	Sept. 14	3.0	02-56-48.06	36° 45.6'	121° 39.6'	2	17	SW of Hollister.
30	Sept. 17	2.6	07-16-34.32	36° 35.2'	121° 52.6'	9	13	East of Monterey.
36	Sept. 20	2.7	03-08-22.42	38° 14.0'	119° 31.4'	3	15	North of Yosemite.
31	Sept. 21	2.5	05-37-13.5	37° 44.6'	122° 35.5'	2	10	West of San Francisco. Felt (San Francisco).
37	Sept. 21	2.9	23-45-00.76	37° 03.7'	119° 09.6'	28	11	SE of Yosemite.
CIT	Sept. 23	3.1	21-29-44	37.6°	117.4°			S of Tonopah, Nev.
32	Sept. 23	3.1	22-25-43.00	37° 19.0'	118° 23.0'	2	11	South of Bishop.
33	Sept. 26	3.6	10-19-30.57	36° 53.7'	121° 43.7'	2	19	NW of Hollister. Felt VI (Gilroy).
34	Sept. 27	2.9	13-05-08.09	37° 29.0'	121° 53.8'	3	20	North of San Jose.

*Indicates epicenter determined with focal depth fixed as zero.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO SEPTEMBER 30, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
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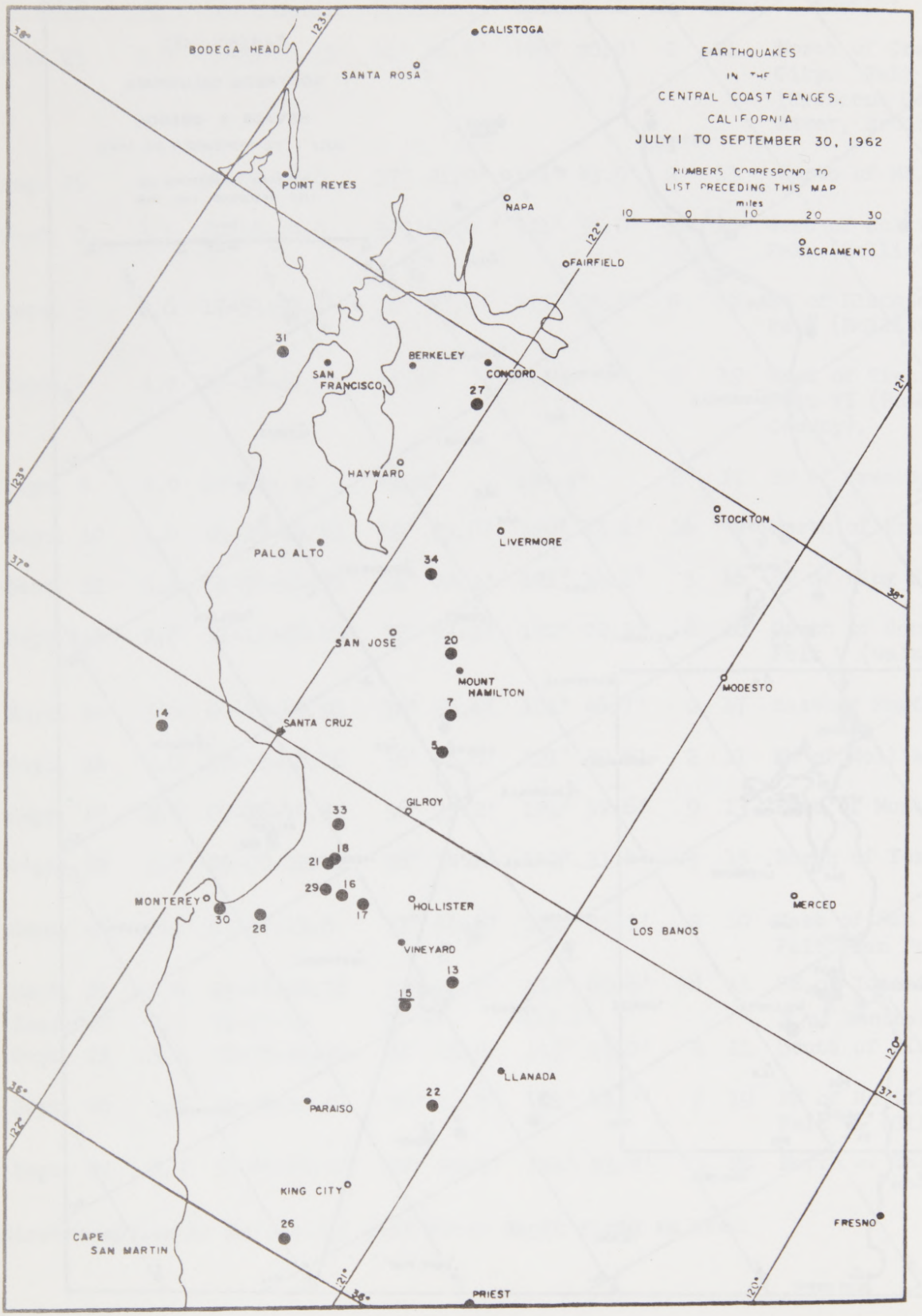
PRI
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JULY 1 TO SEPTEMBER 30, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
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PARAISO
KING CITY
CAPE SAN MARTIN
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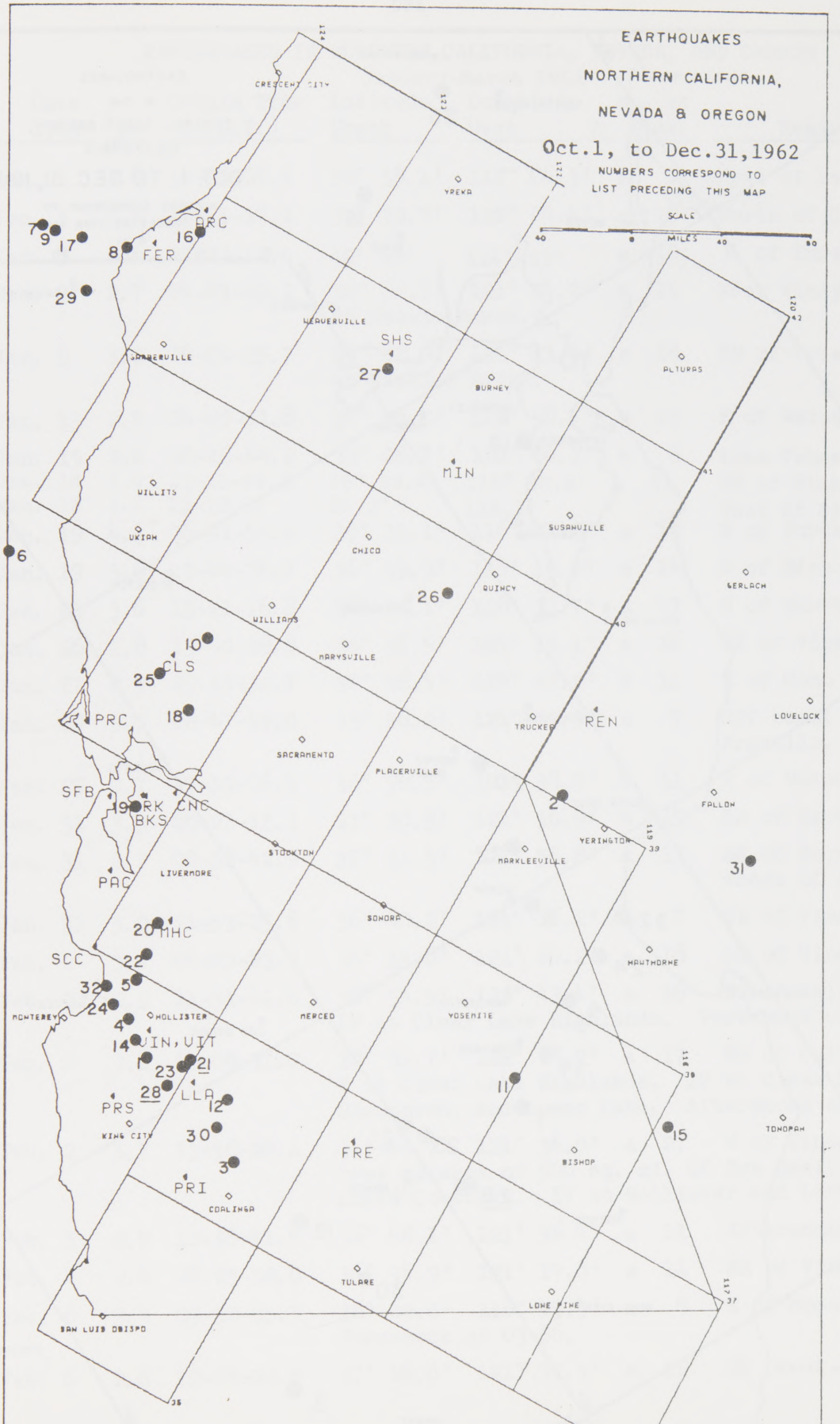
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

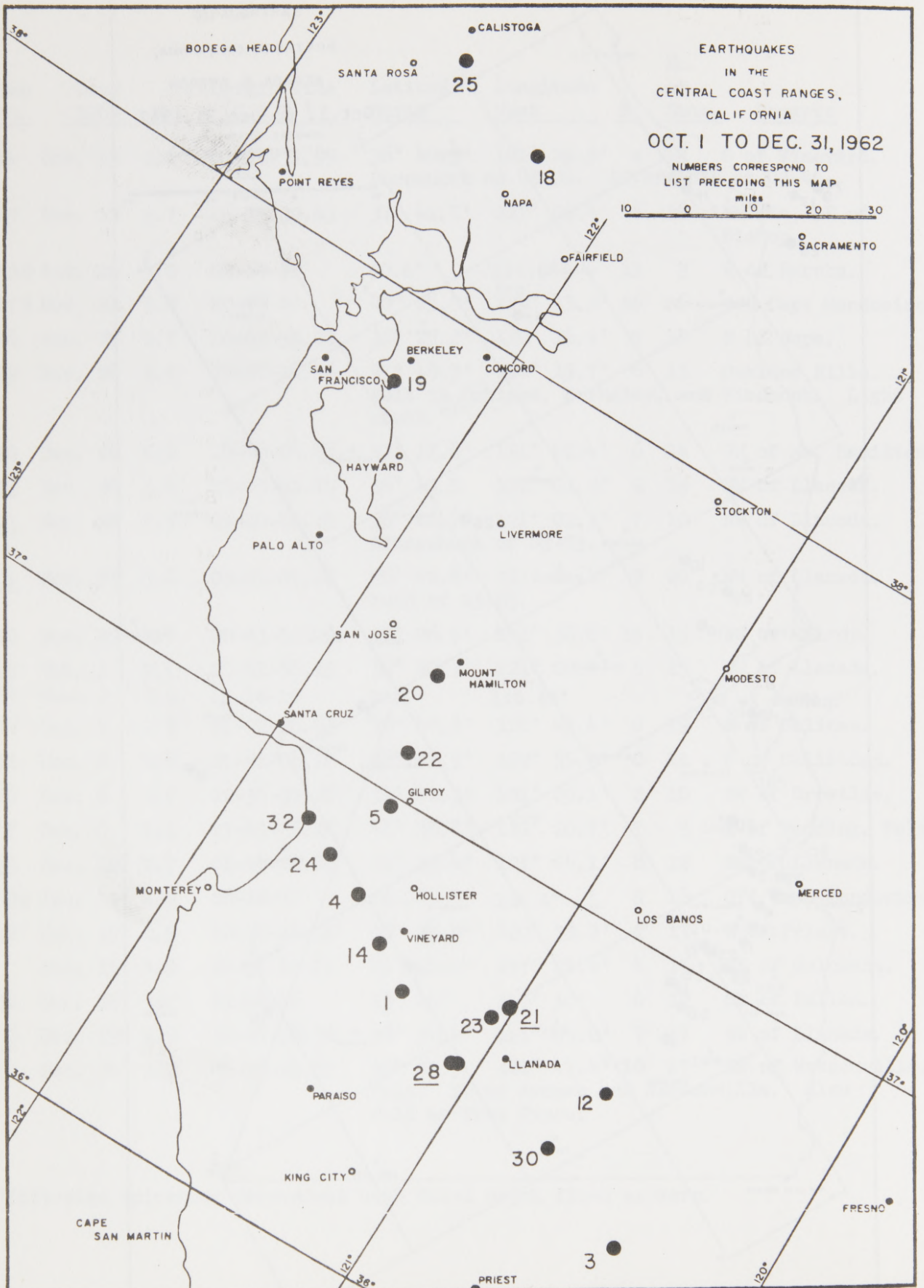
October-December 1962

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Oct. 1	3.2	14-04-05.63	36° 36.8'	121° 17.3'	7	16	SE of Vineyard near Waterman Ranch.
2	Oct. 2	4.3	03-50-58.44	39° 01.7'	119° 41.6'	a	21	SE of Carson City. Felt over an area of 2500 sq. mi. of western Nevada and northeastern California. Maximum intensity V. No damage reported. V at Dayton, Minden, and Virginia City, Nevada. IV at Carson City, Gardnerville, Genoa, Glenbrook, Silver City, and Zephyr Cove area, Nevada; and at Bijou, Floriston, Stateline, and Tiger Creek Powerhouse, California.
3	Oct. 13	3.7	17-49-39.48	36° 20.7'	120° 24.9'	a	17	NE of Priest.
-	Oct. 14	4.1	09-41-00.57	38° 41.8'	124° 05.0'	a	20	Off coast, SW of Point Arena. Foreshock of Oct. 14, 10-14.
-	Oct. 14	4.6	10-14-28.11	38° 40.8'	124° 01.7'	0	20	Off coast, SW of Point Arena. Main shock. Felt. IV at Albion, also felt at Elk.
-	Oct. 14	3.6	11-10-15.56	38° 44.5'	124° 03.3'	a	19	Off coast, SW of Point Arena. Aftershock of Oct. 14, 10-14.
-	Oct. 14	3.4	11-48-17.47	38° 44.2'	124° 35.1'	a	17	Off coast, SW of Point Arena. Aftershock of Oct. 14, 10-14.
4	Oct. 18	3.4	18-50-07.09	36° 45.2'	121° 31.9'	2	20	W of Vineyard. Felt. III at Harris Ranch. Also felt at Vineyard and Hollister.
5	Oct. 23	2.5	01-21-39.18	36° 58.0'	121° 37.5'	a	18	SW of Gilroy.
6	Oct. 24	2.8	08-03-27.35	38° 42.4'	123° 55.6'	a	12	Off coast, SW of Point Arena. Aftershock of Oct. 14, 10-14.
7	Nov. 1	3.3	22-51-00.74	40° 21.7'	124° 59.7'	8	9	Off Cape Mendocino.
8$	Nov. 5	3.3	05-23-00	40° 29.2'	124° 23.5'	28	7	Off Cape Mendocino.
*9	Nov. 5	3.4	06-31-41	40° 23'	124° 54'	0	5	Off Cape Mendocino.
10	Nov. 5	2.8	17-08-30.23	38° 48.5'	122° 26.2'	a	13	NE of Calistoga.
11	Nov. 6	4.0	11-57-20.36	37° 30.8'	119° 01.1'	a	20	SW of Mammoth Lakes. Felt over an area of 3000 sq.mi. of east-central California. Maximum intensity V at Big Creek, Bishop, Laws, and Long Valley Dam.
12	Nov. 10	3.0	12-50-20.46	36° 38.1	120° 40.0'	a	18	E of Llanada.
*13	Nov. 12	3.7	07-53-52	36° 00'	117° 10'	0	11	Telescope Peak area, Death Valley.

Map No.	Date 1962	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
14	Nov. 13	2.6	03-32-32.99	36° 40.3'	121° 25.3'	a	13	S of Vineyard. Foreshock at 03-04. Aftershock at 03-46.
15	Nov. 13	3.7	06-35.30.43	37° 41.7'	117° 55.4'	6	16	Nevada, NE of Bishop.
16$	Nov. 16	3.0	03-00-56	40.6°	124.0°	11	3	E of Eureka.
17$	Nov. 21	3.8	10-03-57	40° 25.0'	124° 43.2'	26	16	Off Cape Mendocino.
18	Nov. 25	2.7	00-43-35.08	38° 25.2'	122° 16.5'	5	12	N of Napa.
19	Nov. 26	2.5	16-58-18.36	37° 48.3'	122° 15.7'	6	13	Oakland Hills. Felt in Oakland, Berkeley, and Piedmont. Light shock.
20	Nov. 26	2.6	18-46-24.88	37° 17.8'	121° 42.4'	6	14	SW of Mt. Hamilton.
21	Nov. 28	3.6	03-03-41.79	36° 43.5	121° 01.2'	9	19	NW of Llanada.
21	Nov. 28	2.5	03-20-56.19	36° 42.8'	121° 01.3'	7	10	NW of Llanada. Aftershock of 03-03.
21	Nov. 28	3.6	03-23-07.88	36° 42.8'	121° 01.1'	9	20	NW of Llanada. Twin of 03-03.
22	Nov. 29	2.7	22-43-59.00	37° 06.5'	121° 38.6'	15	13	NW of Gilroy.
23	Dec. 1	2.7	03-31-56.23	36° 40.3'	121° 02.7'	5	15	NW of Llanada.
CIT	Dec. 3	3.0	10-16-19	37.5°	118.63°			N of Bishop
24	Dec. 5	2.8	05-02-26.63	36° 47.3'	121° 41.4'	0	19	N of Salinas.
25	Dec. 6	2.6	01-41-06.10	38° 31.3'	122° 35.4'	0	11	S of Calistoga.
26	Dec. 6	2.9	12-36-39.28	39° 42.3'	121° 09.1'	d	10	NW of Oroville.
27	Dec. 6	3.1	17-43-36.26	40° 36.8'	122° 20.7'	7	3	E of Redding. Felt.
28	Dec. 12	2.7	01-48-25.88	36° 33.4'	121° 04.1'	8	12	SW of Llanada.
29$	Dec. 13	4.0	08-10-47	40.2°	124.4°	d	16	Off Cape Mendocino.
30	Dec. 15	2.9	00-40-20.90	36° 27.9'	120° 38.2'	2	13	N of Priest.
	Dec. 15	4.9	06-34-53.72	41° 02.0'	117° 15.4'	4	15	NE of Golconda.
*31	Dec. 16	3.7	11-06-46	39° 14'	118° 18'	0	12	SE of Fallon.
28	Dec. 19	2.9	16-47-18.36	36° 32.4'	121° 05.2'	7	17	SW of Llanada.
32	Dec. 24	3.7	00-16-23.37	36° 50.9	121° 47.4'	10	17	SW of Watsonville. Felt. IV at Aromas and Watsonville. Also felt at Tres Pinos.

*Indicates epicenter determined with focal depth fixed as zero.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
Oct.1, to Dec.31,1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CRESCENT CITY
EUREKA
ARC
FER
SHS
MIN
PRC
CLS
CNC
BKS
SFB
PAC
MHC
SCC
PRS
LLA
FRE
PRI
REN
MODOC
LAVA BEDS
ALTURAS
BURNEY
SUSANVILLE
CHICO
QUINCY
WILLIAMS
MARYSVILLE
SACRAMENTO
PLACERVILLE
STOCKTON
LIVERMORE
SONORA
MERCED
YOSEMITE
HOLLISTER
MONTEREY
KING CITY
COALINGA
TULARE
LONE PINE
BISHOP
MAMMOTH
MARKLEEVILLE
YERINGTON
TRUCKEE
FALLON
LOVELOCK
GERLACH
TONOPAH
SAN LUIS OBISPO
1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
OCT. 1 TO DEC. 31, 1962
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
25
POINT REYES
18
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
19
CONCORD
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
20
MODESTO
SANTA CRUZ
22
GILROY
32
5
24
MONTEREY
4
HOLLISTER
MERCED
LOS BANOS
VINEYARD
14
1
23
21
28
LLANADA
PARAISO
12
30
KING CITY
FRESNO
CAPE SAN MARTIN
3
PRIEST
123°
122°
121°
120°
38°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

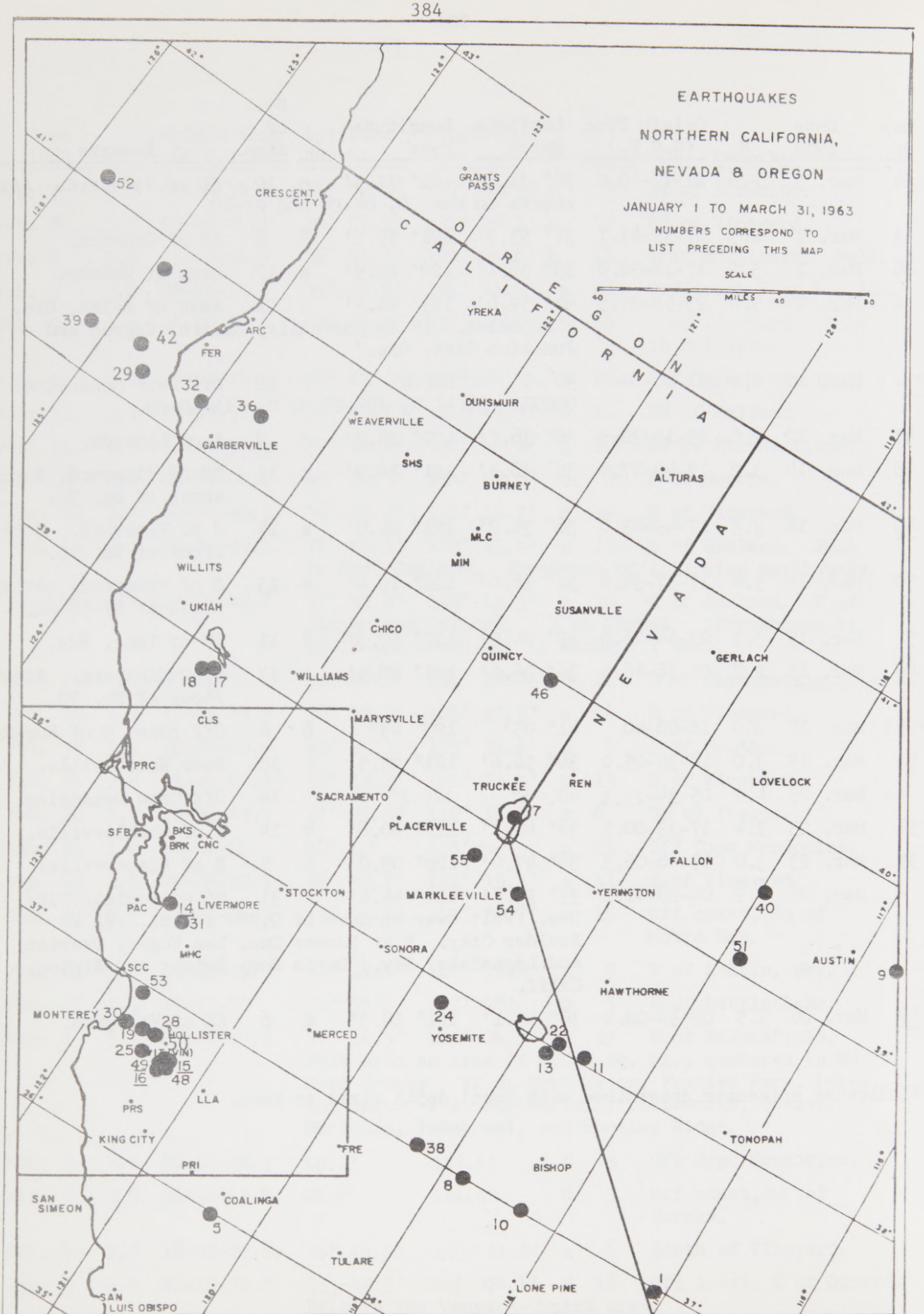
January-March 1963

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Jan. 1	3.6	10-28-07.7	36° 58.1'	117° 04.3'	b	8	West of Beatty, Nev.
2	Jan. 3	2.5	14-15-17.1	37° 59.7'	122° 04.4'	a	10	North of Concord.
3$	Jan. 5	3.6	21-27-12.0	40° 50'	124° 55'	a	10	W of Eureka.
4	Jan. 9	2.7	04-03-29.2	36° 32.8'	121° 14.2'	a	15	Near Vineyard. Felt at Harris Ranch.
5	Jan. 9	3.2	06-04-25.7	35° 58.9'	120° 21.6'	c	14	SE of Priest. III at Wheeler Ridge.
6	Jan. 13	2.5	04-29-51.8	36° 56.0'	121° 38.7'	c	12	E of Watsonville.
7	Jan. 15	2.8	20-16-44.2	39° 06.7'	120° 04.1'	c	6	Lake Tahoe.
8	Jan. 18	3.6	21-11-46.5	36° 59.4'	118° 50.8'	a	11	SW of Bishop.
CIT	Jan. 18	3.3	21-12-37	37.2°	118.1°			East of Bishop.
9	Jan. 19	4.3	06-41-51.2	39° 31.1'	116° 41.3'	a	12	W of Eureka, Nev.
10	Jan. 19	3.6	19-44-36.7	36° 59.9'	118° 19.0'	a	14	S of Bishop.
11	Jan. 23	3.6	13-21-16.8	38° 02.1'	118° 31.7'	a	17	S of Hawthorne, Nev.
12	Jan. 26	2.8	13-40-28.8	36° 36.5'	121° 15.1'	a	16	SE of Vineyard.
13	Jan. 27	2.9	23-15-32.7	37° 56.4'	118° 47.2'	a	11	E of Mono Lake.
-	Jan. 29	3.7	02-47-59.0	33° 56.2'	121° 29.9'	c	7	Off coast SW of Point Arguello.
6	Jan. 29	2.7	17-19-06.9	36° 56.5'	121° 38.9'	b	11	E of Watsonville.
14	Jan. 31	3.3	08-23-13.3	37° 30.9'	121° 56.9'	b	15	SE of Hayward. Felt.
14	Jan. 31	2.7	08-58-42.9	37° 31.5'	121° 56.8'	a	13	SE of Hayward. Aftershock of No. 14.
15	Jan. 31	3.0	21-53-25.8	36° 40.2'	121° 16.2'	a	7	SE of Vineyard.
16	Feb. 2	3.4	04-09-23.2	36° 34.8'	121° 20.2'	a	18	SE of Vineyard.
17	Feb. 2	2.9	11-51-41.4	38° 54.5'	122° 43.4'	a	16	NW of Calistoga. IV at Clear Lake Highlands. Foreshock of No. 18.
18	Feb. 2	3.1	12-09-37.0	38° 51.7'	122° 48.2'	a	17	NW of Calistoga. V at Clear Lake Highlands. IV at Clear Lake Oaks, Glenhaven, and Lower Lake. Aftershock at 12-14-16.
19	Feb. 2	3.7	13-58-20.1	36° 44.7'	121° 36.0'	a	27	W of Vineyard. Felt over an area of 500 sq. mi. of San Benito and Santa Clara Counties. IV at Hollister and Libby Ranch.
20	Feb. 3	2.5	12-36-41.5	36° 48.1'	121° 36.4'	a	11	Aftershock of No. 19.
21	Feb. 4	2.8	08-23-52.0	36° 34.9'	121° 17.8'	a	11	SE of Vineyard.
22	Feb. 6	3.4	09-52-35.7	38° 02.0'	118° 45.5'	a	8	E of Mono Lake. Foreshock at 03-56.
23	Feb. 6	2.6	19-08-22.8	37° 26.8'	121° 32.5'	a	12	NE of Mt. Hamilton.

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
24	Feb. 7	2.8	04-43-55.8	37° 52.8'	119° 43.9'	a	9	NW of Yosemite.
25	Feb. 8	3.6	09-44-24.1	36° 37.9'	121° 29.3'	a	19	SW of Vineyard.
26	Feb. 8	2.6	15-16-56.9	36° 51.3'	121° 24.6'	b	11	Near Hollister. Felt.
27	Feb. 9	2.8	02-52-14.5	35° 58.9'	121° 41.5'	a	8	Off coast S of Big Sur.
28	Feb. 9	3.2	04-08-01.4	36° 45.3'	121° 29.0'	b	16	W of Vineyard. Felt in Hollister.
29$	Feb. 11	3.0	09-43-35.3	40° 12'	124° 28'	d	6	Off Cape Mendocino.
30	Feb. 11	3.1	15-53-57.6	36° 44.1'	121° 44.5'	d	14	NW of Salinas.
31	Feb. 11	3.3	19-48-54.9	37° 26.2'	121° 48.2'	a	18	NW of Mt. Hamilton.
32	Feb. 12	2.9	01-44-04.0	40° 15.5'	124° 02.6'	c	3	S of Scotia.
16A	Feb. 12	2.6	03-44-30.9	36° 30.0'	121° 19.7'	a	10	S of Vineyard.
33	Feb. 12	2.0	07-51-39.1	37° 49.1'	122° 13.6'	a	10	E of Oakland. Felt in East Oakland. Foreshock of following earthquake.
33	Feb. 12	2.7	08-50-42.7	37° 50.2'	122° 13.3'	a	10	E of Oakland. V at Canyon and Oakland. IV at Moraga. Aftershocks at 16-18 and 18-03-21. M about 1.7 each.
34	Feb. 14	2.5	08-25-35.4	36° 58.9'	121° 38.8'	b	12	E of Watsonville.
35	Feb. 14	2.7	15-05-49.5	36° 30.9'	121° 27.5'	a	14	S of Vineyard.
36	Feb. 15	3.1	00-38-48.6	40° 23.3'	123° 34.4'	a	4	E of Scotia.
37	Feb. 15	2.8	01-21-40.9	36° 33.1'	121° 23.4'	a	15	S of Vineyard.
38	Feb. 18	2.7	11-46-33.1	37° 02.0'	119° 16.3'	b	6	NE of Fresno.
39$	Feb. 21	3.8	12-01-16	40° 21'	125° 04'	a	21	Off Cape Mendocino.
16	Feb. 22	2.8	00-23-42.5	36° 35.7'	121° 19.3'	a	11	S of Vineyard.
-	Feb. 22	3.3	15-56-21.9	35° 06.4'	121° 26.7'	a	15	Off coast, SW of Morro Bay.
40	Feb. 23	3.7	08-22-39.7	39° 31.4'	117° 57.4'	d	9	W of Austin, Nev.
*-	Feb. 27	3.5	12-57-50	35° 55'	117° 46'	0	5	E of Little Lake.
-	Mar. 1	5.1	00-25-57.6	34° 54.5'	119° 04.5'	a	25	S of Bakersfield. Felt over an area of 8,000 sq. mi., centered in SW Kern County. VI at Fort Tejon, Frazier Park, Lebec, and Taft. V at Bakersfield, Chatsworth, Gorman, Maricopa, Tehachapi, and Wheeler Ridge.
- $	Mar. 2	3.7	10-54-48.0	40.4°	127.1°	d	3	Off Cape Mendocino.
*42$	Mar. 3	3.5	01-09-19.8	40.4°	124.6°	0	3	Off coast, SW of Eureka.
43	Mar. 4	2.5	18-01-25.5	36° 40.8'	121° 21.0'	a	6	South of Vineyard.
-	Mar. 4	4.4	20-10-30.3	33 42.3'	119 04.1'	d	18	Off coast, S of Oxnard. Felt in the Ventura-Oxnard area.

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
44	Mar. 5	2.6	21-17-49.0	36° 31.6'	121° 11.5'	a	10	SE of Vineyard. Aftershocks on Mar. 6, 04-28 and 07-48.
45	Mar. 7	2.5	07-33-47.7	37° 53.9'	121° 59.2'	c	8	SE of Concord.
46	Mar. 7	3.2	17-18-32.8	39° 58.1'	120° 22.9'	a	12	East of Quincy.
-	Mar. 7	5.4	23-53-26.5	44° 52.6'	123° 44.3'	d	21	East of Salem, Ore. V at Salem. IV at Corvallis, Elmira, Eugene and Junction City, Ore.
* - $	Mar. 10	4.4	11-40-14.4	40.5°	127.6°	O	12	Off Cape Mendocino. USCGS: 38.4° N, 127.2° W; O = 11-40-29.
47	Mar. 12	2.6	09-19-36.3	36° 36.7'	120° 25.3'	d	9	E of Llanada.
48	Mar. 14	3.2	17-42-17.4	36° 36.4'	121° 16.9'	a	13	SE of Vineyard. Foreshock of No. 50.
49	Mar. 14	3.3	17-49-03.0	36° 36.2'	121° 21.0'	a	14	S of Vineyard. Foreshock of No. 50.
50	Mar. 14	3.4	17-57-34.8	36° 36.6'	121° 19.4'	a	13	S of Vineyard. Aftershock at 17-58-20.
51	Mar. 15	3.5	03-44-26.8	39° 04.9'	117° 50.3'	d	11	NW of Ione, Nev.
49	Mar. 15	2.7	05-18-46.9	36° 36.6'	121° 20.4'	a	13	S of Vineyard. Aftershock of No. 50.
*52$	Mar. 17	3.0	18-06-40	41° 05'	125° 45'	O	4	Off coast W of Eureka.
53	Mar. 19	3.0	18-30-05.0	36° 56.6'	121° 45.5'	d	16	Near Watsonville.
-$	Mar. 23	4.2	05-34-21.5	40.5°	126.2°		14	Off Cape Mendocino.
54	Mar. 23	3.4	17-33-00.5	38° 42.2'	119° 40.8'	b	14	E of Markleeville.
55	Mar. 23	3.0	17-46-06.3	38° 47.0'	120° 09.0'	b	7	E of Placerville.
-	Mar. 25	4.9	09-28-41.1	35° 53.8'	114° 44.4'	a	31	SE of Boulder City, Nev. Felt over an area of 9,000 sq. mi. VI at Boulder City. V at Hoover Dam, Las Vegas, Overton, and Logandale, Nev.; Davis Dam, Ariz.; and Nipton, Calif.
15	Mar. 26	2.5	02-39-02.1	36° 40.1'	121° 16.3'	d	6	SE of Vineyard.

*Indicates epicenter determined with focal depth fixed as zero.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
SFB
BKS
BRK
CNC
PLACERVILLE
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
MHC
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO
52
3
39
42
29
32
36
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17
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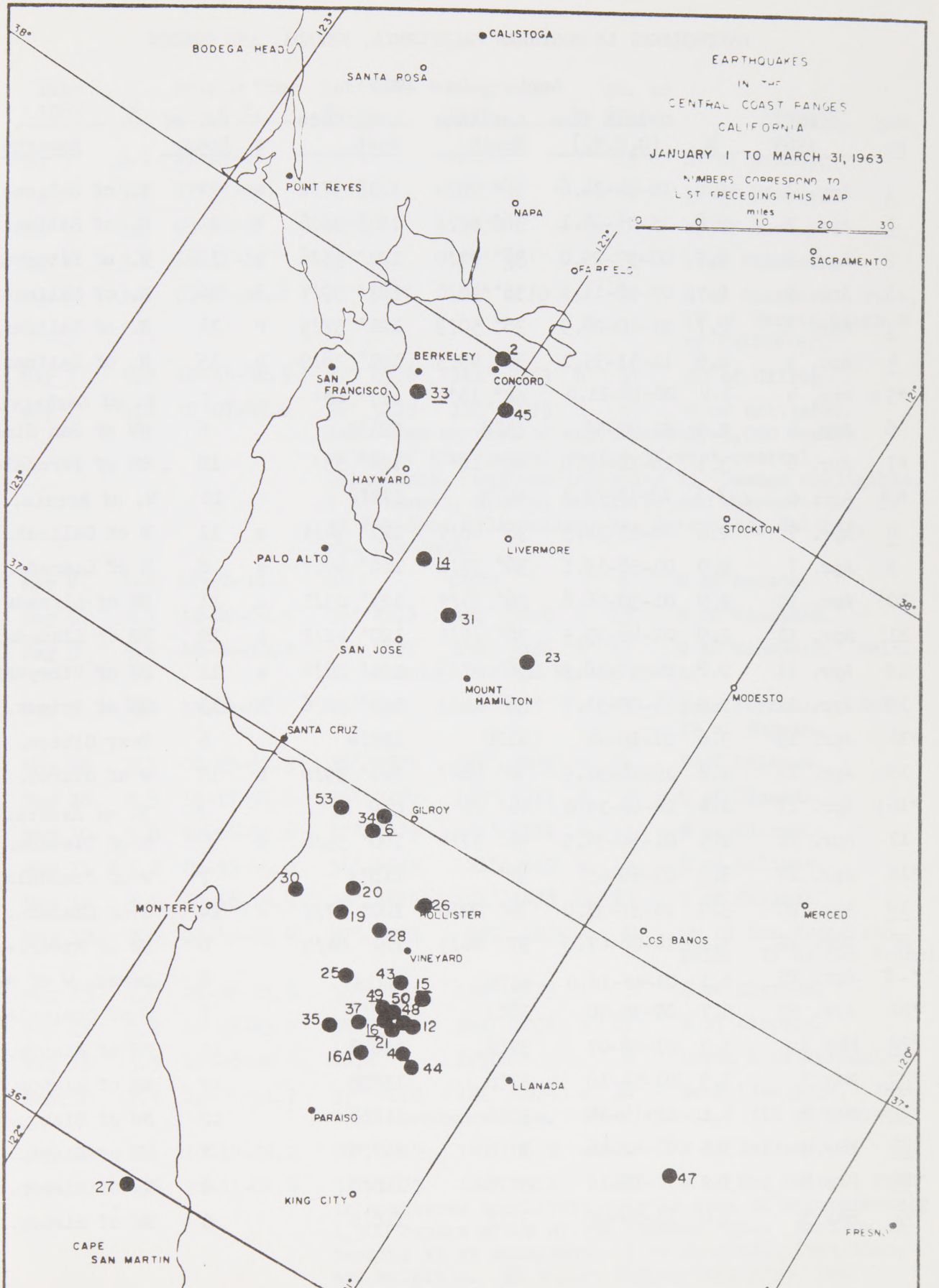
EARTHQUAKES
IN THE
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 1 TO MARCH 31, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
0 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
38°
123°
122°
37°
36°
2
33
45
14
31
23
53
34
6
30
20
19
26
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25
43
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44
27
47

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

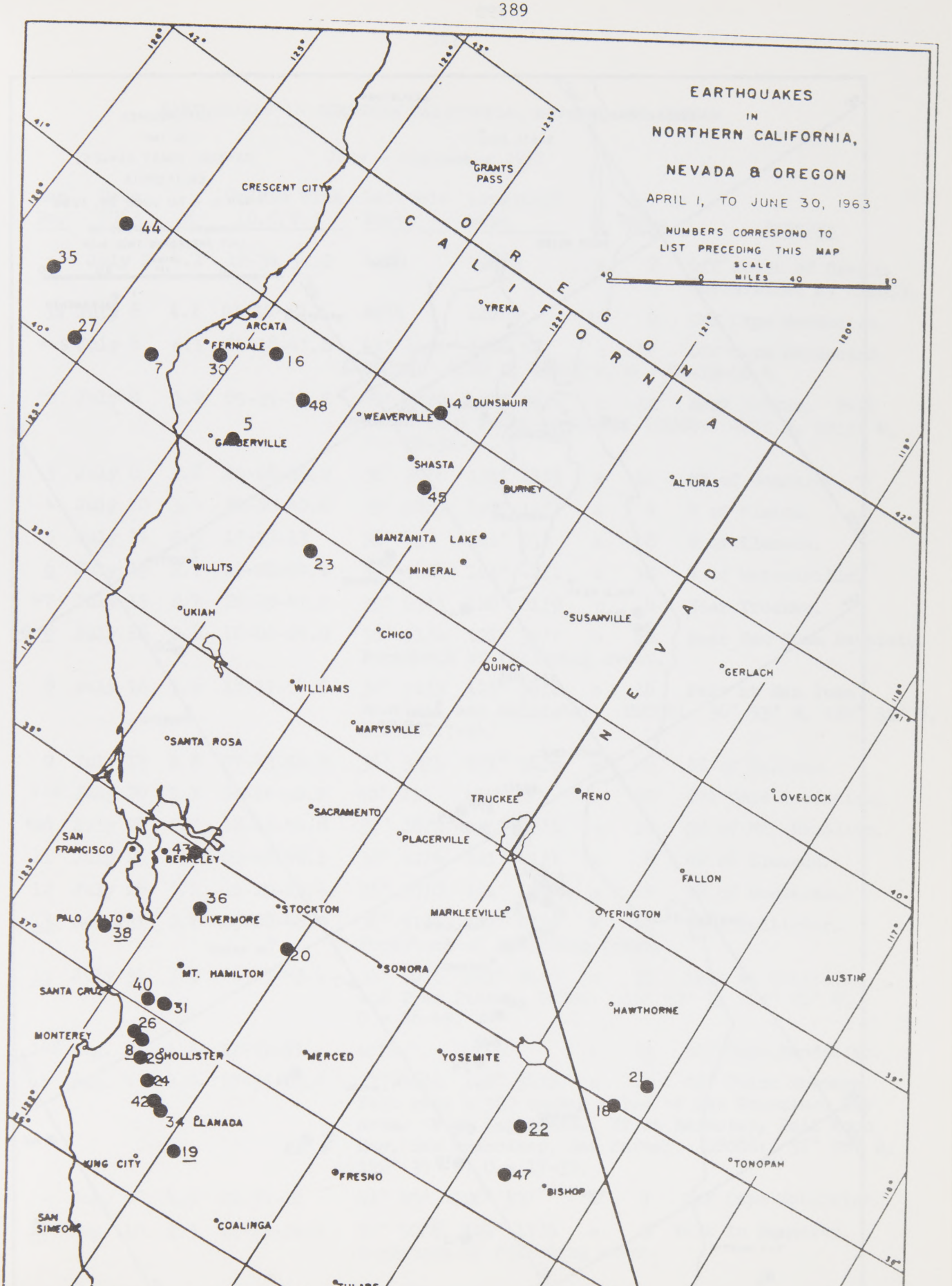
April - June 1963

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Apr. 1	2.5	10-14-34.6	36° 50.4	121° 37.2	a	7	N. of Salinas.
1	Apr. 1	2.8	15-07-04.1	36° 50.1	121° 38.6	b	14	N. of Salinas.
2	Apr. 2	2.7	00-57-29.0	38° 01.0	121° 55.6	b	12	W. of Pittsburg.
3	Apr. 2	2.7	02-18-11.2	36° 48.0	121° 39.7	a	16	N. of Salinas.
1	Apr. 2	2.7	21-40-28.9	36° 50.3	121° 37.5	b	14	N. of Salinas.
4	Apr. 3	2.6	11-41-55.1	36° 49.3	121° 38.9	b	15	N. of Salinas.
*5 $	Apr. 4	3.9	00-10-21.0	40° 10'	123° 40'		7	E. of Garberville.
6	Apr. 4	2.5	01-00-58	35.8	121.5		6	NW of San Simeon.
*7	Apr. 6	3.5	16-12-42.0	40° 18'	124° 33'		10	SW of Ferndale.
* $	Apr. 6	3.5	20-18-29.1	40.0	128.0		10	W. of Arcata.
8	Apr. 7	2.6	00-23-34.5	36° 48.5	121° 34.4	a	11	N of Salinas.
9	Apr. 7	2.9	01-56-19.1	36° 35.1	120° 40.7	a	8	E of Llanada.
10	Apr. 10	2.9	01-38-56.8	36° 25.5	121° 03.1	a	11	SW of Llanada
11	Apr. 11	2.9	00-46-33.3	36° 45.3	120° 42.2	a	12	NE of Llanada.
12	Apr. 11	2.8	04-57-18.3	36° 37.6	121° 18.4	a	11	SE of Vineyard.
13	Apr. 11	2.9	14-02-31.8	36° 12.3	120° 52.6		13	NW of Priest.
*14	Apr. 13	3.6	21-10-24	41.0	122.4		6	Near Gibson.
15	Apr. 17	2.6	19-16-31.9	36° 58.7	121° 39.0	b	13	W of Gilroy.
*16 $	Apr. 17	3.4	19-40-35.0	40° 45'	123° 40'		2	E. of Arcata.
17	Apr. 18	2.5	01-50-35.5	36° 52.4	120° 59.6	a	6	N of Llanada.
*18	Apr. 19	3.3	03-59-45	38°	118.3		7	W of Coaldale, Nev.
19	Apr. 20	3.0	16-37-33.0	36° 22.6	120° 57.7	a	14	S of Llanada.
20	Apr. 22	3.1	14-06-47.0	37° 46.3	121° 04.9		8	NW of Riverbank.
* $	Apr. 25	3.5	01-49-16.0	41.0	127.5		6	Ocean, W of Arcata.
*21	Apr. 29	3.7	09-30-50	38.2	118.1		7	W of Coaldale, Nev.
*22	May 3	3.3	01-28-07	37.6	118.8		10	NW of Bishop.
*22	May 3	3.3	01-54-16	37.6	118.8		12	NW of Bishop.
*22	May 3	4.1	02-14-44	37.6	118.8		12	NW of Bishop.
*22	May 3	3.5	08-42-46	37.6	118.8		8	NW of Bishop.
*22	May 3	3.3	11-15-19	37.6	118.8		6	NW of Bishop.
*22	May 3	3.0	13-59-29	37.6	118.8		5	NW of Bishop.

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
*22	May 3	3.6	17-29-01	37.6	118.8		13	NW of Bishop.
*22	May 3	3.3	17-37-10	37.6	118.8		8	NW of Bishop.
*22	May 4	3.3	03-58-35	37.6	118.8		10	NW of Bishop.
*23	May 4	3.2	16-37-15	39° 53'	122° 38'		5	W of Paskenta.
24	May 6	3.7	03-04-28.8	36° 38.7	121° 21.0	a	19	S of Vineyard. Felt. IV at Harris Ranch S of Hollister.
25	May 7	2.9	00-35-46.5	37° 05.6	121° 32.3	b	17	NE of Gilroy.
26	May 7	4.4	07-07-48.0	36° 51.6	121° 39.3	d	17	W of Hollister. Felt over an area of approximately 3,000 square miles of the coastal region of west-central California. Maximum intensity V. Damage negligible. V at Carmel, Gilroy, Hollister and Watsonville. IV at Big Sur, Mill Valley, San Francisco, Salinas, and San Jose.
*27$	May 8	3.3	12-52-35.2	40.2	125.1		6	W of Arcata.
28	May 9	2.7	12-00-09.4	36° 44.4	121° 28.6	c	12	W of Vineyard.
29	May 9	3.4	12-04-19.9	36° 44.7	121° 31.4	d	15	W of Vineyard. Felt. IV at Hollister and Harris Ranch.
*30	May 9	4.0	13-24-08	40° 33'	124° 07'		7	Near Ferndale. Felt. IV at Eureka.
4	May 10	2.5	02-23-57.3	36° 49.5	121° 38.2	b	11	N of Salinas.
19	May 10	2.5	10-17-57.1	36° 22.0	120° 59.1	b	9	S of Llanada.
31	May 10	3.0	12-06-35.8	37° 04.9	121° 35.2	b	17	N of Gilroy.
8	May 11	3.2	22-53-45.0	36° 49.5	121° 35.9	b	16	N of Salinas.
8	May 12	3.1	00-56-19.9	36° 49.4	121° 34.8	b	14	N of Salinas.
32	May 12	2.6	03-45-09.4	37° 42.1	122° 32.9	a	9	SW of San Francisco. Felt. IV at San Francisco
33	May 13	2.6	21-28-21.8	36° 36.1	120° 37.3		7	E of Llanada.
34	May 15	3.2	10-38-43.0	36° 32.8	121° 10.7	a	17	W of Llanada.
*35	May 19	3.5	20-48-55	40.4	125.6		4	Ocean W of Ferndale.
36	May 20	3.4	19-57-51.7	37° 42.2	121° 46.4	c	14	Near Livermore. Felt. V at Livermore area. IV at Cowell. III at Canyon.
37	May 22	2.7	10-18-29.2	36° 48.2	121° 36.9	a	10	N of Salinas.
38	May 22	4.6	22-41-04.8	37° 16.3	122° 19.1		12	W of Los Gatos. Felt in scattered localities over an area of approximately 1,500 square miles of the coastal area. Maximum intensity VI at Sunnyvale. V at Campbell, Cupertino, and Milpitas. IV at Los Altos, Palo Alto, San

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
37	May 23	2.8	19-43-46.0	36° 47.6	121° 36.2	a	11	N of Salinas.
39	May 23	2.6	22-50-02.6	37° 17.5	122° 16.0	a	11	W of Los Gatos.
38	May 23	3.1	23-32-46.4	37° 16.3	122° 19.1	a	13	W of Los Gatos.
40	May 25	3.4	08-04-20.3	37° 02.6	121° 45.0	d	14	N of Watsonville. Felt. IV at Aptos.
41	May 25	2.5	23-07-47.7	37° 30.0	121° 52.6	a	11	N of Milpitas.
*18	May 26	3.7	19-44-50	38.2	118.0		12	NW of Coaldale, Nev.
42	May 30	3.5	20-26-39.4	36° 34.6	121° 15.6	b	14	E of Gonzales.
43	June 7	3.9	12-04-42.2	37° 58.5	122° 02.9	c	16	Concord, Calif. Felt over approximately 1,500 square miles of San Francisco Bay area, principally in Contra Costa County. Maximum intensity VI, at Antioch, Clayton, Concord and Cowell. V at Martinez, Walnut Creek, and Pittsburg. IV at Berkeley, Oakland, and San Francisco.
*44 $	June 8	4.0	08-51-41.5	40.9	125.3		12	Off Cape Mendocino.
*45	June 8	3.1	14-00-32	40.6	122.2		2	E of Redding.
46	June 18	2.9	02-27-40.6	36° 54.7	119° 58.0		10	SE of Madera. Felt(?) at Wishon Power Station.
*47	June 19	3.3	04-15-08	37.3	118.7		7	W of Bishop.
*48	June 20	3.0	02-28-46	40.6	123.4		3	N of Forest Glen.
*	June 29	5.0	08-09-26	40° 20'	126° 49'		20	W. of Ferndale.

*Indicates epicenter determined with focal depth fixed as zero.


EARTHQUAKES
IN
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1, TO JUNE 30, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARCATA
FERNDALE
WEAVERVILLE
DUNSMUIR
GARBERVILLE
SHASTA
BURNEY
ALTURAS
MANZANITA LAKE
MINERAL
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
SANTA ROSA
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
SAN FRANCISCO
BERKELEY
FALLON
PALO ALTO
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
MT. HAMILTON
SONORA
AUSTIN
SANTA CRUZ
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
PLANADA
KING CITY
FRESNO
TONOPAH
BISHOP
SAN SIMEON
COALINGA
44
35
27
7
30
16
48
14
5
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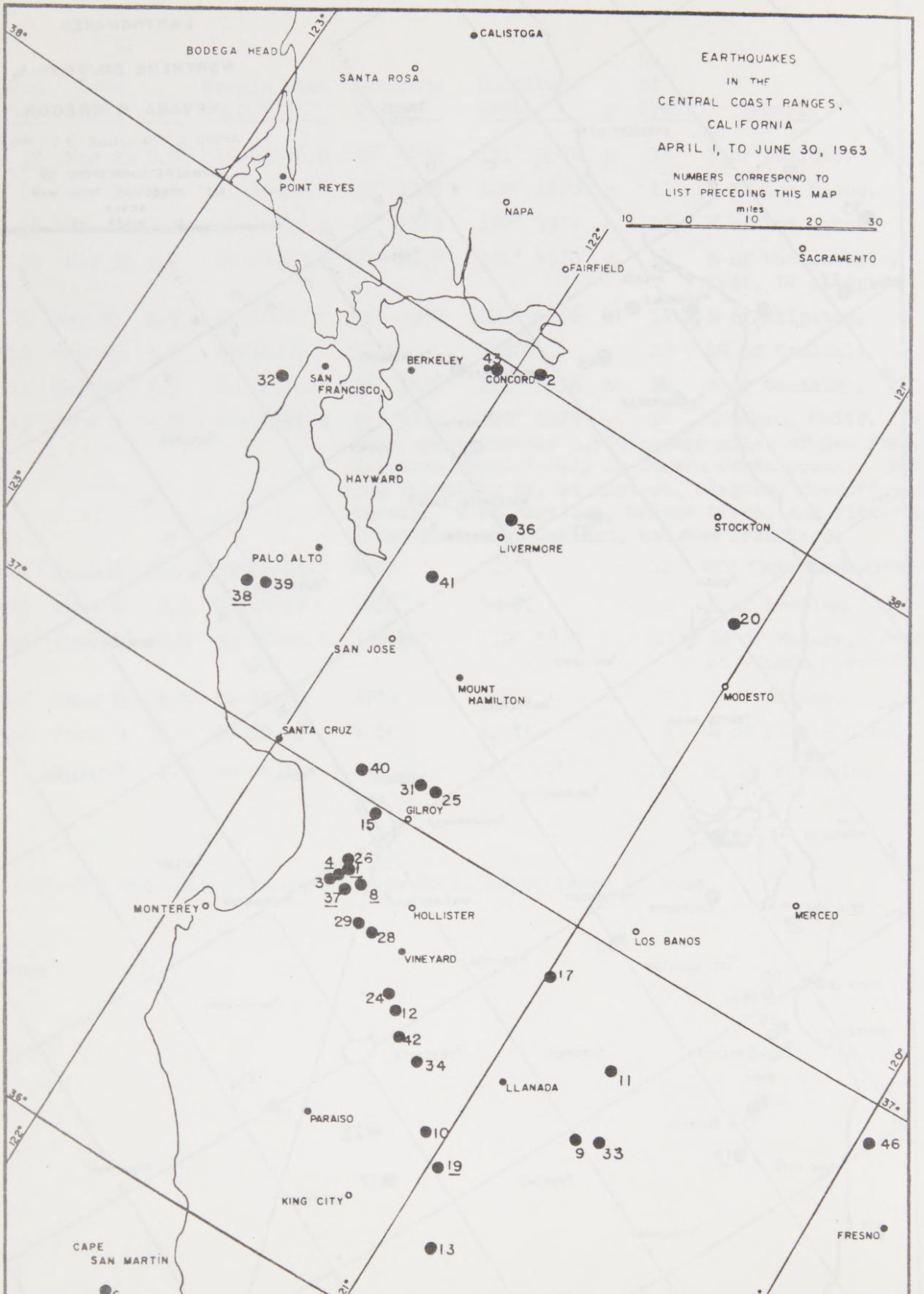
47


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
APRIL 1, TO JUNE 30, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
LIVERMORE
STOCKTON
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
123°
122°
121°
120°
38°
37°
36°

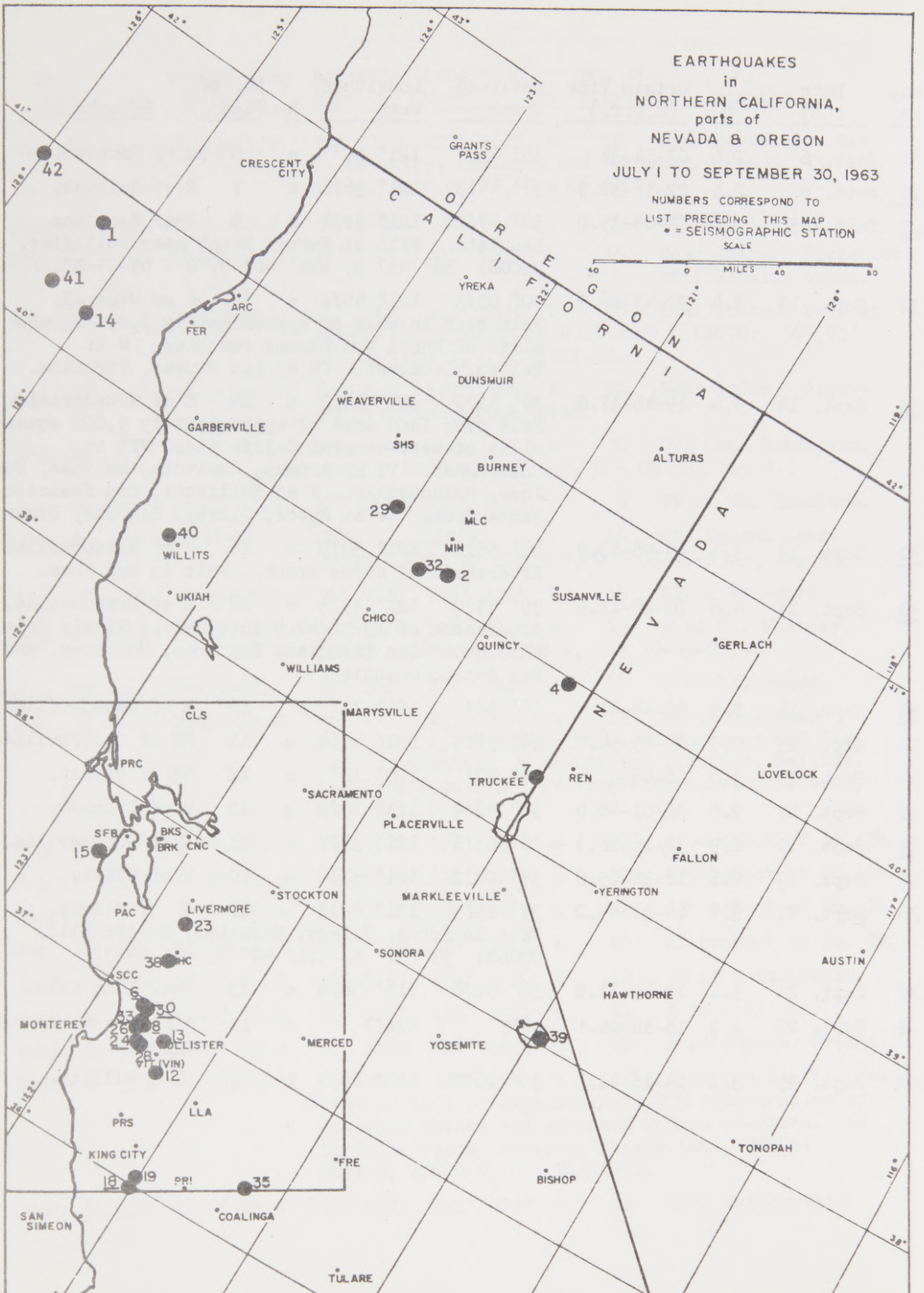
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - September 1963

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
-	July 2	4.1	12-34-34.0	42°.9	126°.2	d	2	Off coast of Oregon (determined by USCGS).
1$	July 8	4.1	01-13-50.6	40°.8	125°.3	d	9	Off Cape Mendocino.
*-$	July 8	4.1	04-18-41.8	41° 44'	128° 04'	c	17	Off Cape Mendocino. USCGS: 40°.8 N, 125°.8 W, O = 04-19-08.4.
*2	July 8	3.2	05-35-35.5	40° 07'.9	121° 28'.4	a	12	Near Belden. Felt at Caribou Power Station. USCGS: 40°.2 N, 121'.0 W, O = 21-35-31.
3	July 8	2.8	12-08-39.2	36° 35'.6	121° 15'.5	a	11	NE of Gonzales.
4	July 10	3.4	21-30-40.8	39° 58'.5	120° 11'.7	a	4	N of Vinton.
5	July 11	2.5	17-59-13	36° 43'	121° 03'	a	8	N of Llanada.
6	July 13	2.7	13-25-54.1	36° 56'.8	121° 42'.1	d	10	W of Watsonville.
*7	July 15	2.7	20-29-47.0	39° 23'.3	120° 01'.9	c	4	Near Truckee.
8	July 16	2.8	18-00-25.9	36° 51'.4	121° 35'.7	b	10	Near San Juan Bautista. Foreshock of following event.
8	July 16	3.6	18-17-54.6	36° 51'.9	121° 36'.8	b	16	Felt at San Juan Bautista and Hollister. USCGS: 36° 53' N, 121° 32' W, O = 10-17-54.
9	July 17	2.8	07-43-54.3	36° 38'.5	121° 36'.6	a	6	SE of Salinas.
41$	July 20	3.7	03-24-13.5	40° 23'	125° 23'	c	20	Off Cape Mendocino.
*10	July 24	2.7	18-42-54.8	37° 16'.9	121° 39'.1	c	12	SW of Mt. Hamilton.
11	July 25	2.6	02-48-46.1	36° 42'.6	121° 01'.1	a	8	NW of Llanada.
12	July 26	3.2	11-29-15.4	36° 38'.8	121° 19'.1	a	14	NE of Gonzales.
13	July 31	2.7	05-08-46.0	36° 51'.1	121° 23'.0	b	12	Near Hollister. Foreshock of following event.
13	July 31	3.9	06-45-53.4	36° 50'.6	121° 24'.0	c	17	Felt at Hollister and Tres Pinos. USCGS: 36° 52' N, 121° 21' W, O = 06-45.
14$	Aug. 2	4.4	22-17-33	40°.3	125°.0	b	13	Off Cape Mendocino.
15	Aug. 4	4.0	17-35-03.6	37° 36'.5	122° 34'.2	a	15	Off Point Montara. Felt over 1,500 square miles of San Francisco Bay area. V at Lagunitas. IV at Berkeley, Half Moon Bay, San Francisco, San Rafael. USCGS: 37° 36' N, 122° 35' W, O = 17-35.
-	Aug. 4	4.5	21-34-26	41° 43'	126° 53'	a	7	Off Cape Mendocino.
16	Aug. 10	2.3	13-23-34.4	37° 50'.8	122° 17'.6	a	9	Felt in Berkeley. Foreshock of following event.

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
16	Aug. 10	2.7	14-32-24.9	37° 51.5	122° 16.8	a	10	Near Berkeley. Felt in Berkeley, Oakland, and Richmond. USCGS: 37° 52' N, 122° 15' W, 0 = 06-32.
17	Aug. 12	2.8	01-50-42.7	36° 48.6	121° 15.2	b	9	SE of Hollister.
18	Aug. 15	3.6	21-02-32.2	35° 58.0	121° 01.8	b	15	Near Jolon. Foreshock of following event.
18	Aug. 15	3.9	21-21-32.1	35° 54.6	121° 03.8	b	18	Near Jolon. Felt at Harris Ranch south of Hollister. USCGS: 36° 03' N, 121° 00' W, 0 = 21-21-33.
19	Aug. 16	3.2	08-12-13.6	36° 03.7	121° 01.0	a	10	Near Jolon. Aftershock of preceding event.
42$	Aug. 19	3.6	09-39-00	40°.9	126°.0	b	8	Off Cape Mendocino. USCGS: 40°.9 N, 126°.0 W, 0 = 09-39, Mag 4.1
20	Aug. 21	2.5	20-01-42.1	37° 26.7	121° 44.0	b	9	NW of Mt. Hamilton.
-$	Aug. 22	4.6	09-27-03	42°.0	126°.4		16	Off Oregon coast. USCGS: 42°.0 N, 126°.2 W, 0 = 09-27-09.3, Mag 5.6
21	Aug. 23	2.7	13-23-54.5	36° 41.8	121° 12.4	b	10	SE of Vineyard.
22	Aug. 24	3.8	10-49-16.5	36° 15.4	118° 31.1	a	12	S of Mt. Whitney. USCGS: 36°.0 N, 117°.6 W, 0 = 10-49-08.4.
23$	Aug. 25	3.1	13-22-08.5	37° 30.7	121° 41.9	c	14	S of Livermore.
24	Aug. 31	4.2	16-31-14.2	36° 45.7	121° 35.0	a	19	NE of Salinas. Felt over 1,300 square miles of Monterey and San Benito counties. V in Cienega District, Salinas, San Juan Bautista. IV in Castroville, Hollister, Monterey, Coyote.
25	Aug. 31	2.6	16-35-17.0	36° 47.7	121° 33.0	a	10	Aftershock of No. 24.
26	Aug. 31	3.0	16-35-34.1	36° 46.9	121° 37.0	a	12	Aftershock of No. 24.
27	Aug. 31	2.7	16-37-07.6	36° 44.1	121° 36.4	a	11	Aftershock of No. 24.
24	Aug. 31	2.7	17-12-26.7	36° 45.8	121° 35.2	a	10	Aftershock of No. 24.
6	Sept. 1	3.0	15-05-59.2	36° 57.7	121° 41.0	a	12	NE of Watsonville.
28	Sept. 3	3.0	01-08-16.9	36° 45.1	121° 32.1	a	11	S of Hollister.
-	Sept. 3	3.8	10-27-19.0	40° 01.2	116° 06.6	d	10	N of Eureka, Nevada.
29	Sept. 4	3.3	05-16-46.8	40° 20'	122° 05'	a	8	E of Red Bluff. Felt over an area of approximately 900 square miles of southern Shasta and northern Tehama counties. IV in Bella Vista, Redding, Shasta Dam. USCGS: 40°.4 N, 122°.0 W, 0 = 21-16-52.
30	Sept. 4	3.0	10-26-31.4	36° 55.9	121° 40.7	b	11	E of Watsonville.

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
31	Sept. 6	2.6	03-54-34	36° 13'	121° 29'	a	8	SW of Paraiso.
27	Sept. 6	2.5	22-58-32.3	36° 44.3	121° 36.8	a	7	E of Salinas.
25	Sept. 13	2.6	13-05-35.2	36° 47.2	121° 32.4	a	9	Near San Juan Bautista. Felt at Harris Ranch near Hollister. USCGS: 36° 41' N, 121° 40' W, O = 05-05-35.
32	Sept. 13	3.4	22-43-16.3	40° 05.3	121° 40.1	c	15	S of Mineral. Felt over an area of approximately 1,200 square miles of Butte and Plumas counties. V at Belden, Cohasset. IV at Las Plumas, Virgilia.
33	Sept. 14	5.4	19-46-17.0	36° 52.0	121° 38.3	a	19	E of Watsonville. Felt over land area of approximately 5,000 square miles of west-central California. VII at Chittenden. VI at Aromas, Capitola, Salinas, San Jose, Watsonville. V at Hollister, San Francisco, Santa Cruz. IV at Aptos, Gilroy, Big Sur, Livermore.
30	Sept. 14	3.1	19-58-40.9	36° 55.1	121° 39.9	a	16	E of Watsonville. Aftershock of above event. Felt in San Jose.
30	Sept. 14	4.6	20-28-11.2	36° 55.0	121° 39.3	c	18	E of Watsonville. Aftershock of 19-58-40.9 this date. Widely felt throughout San Francisco Bay area, Monterey, and San Benito counties.
33	Sept. 14	2.5	22-46-41	36° 54'	121° 38'	b	10	E of Watsonville.
34	Sept. 15	2.5	03-49-54.7	36° 51.5	121° 41.4	a	11	NE of Castroville.
35	Sept. 15	3.0	10-48-31	36° 20'	120° 16'	c	12	NE of Priest.
36	Sept. 17	2.6	01-01-48.0	36° 36.4	121° 10.2	a	12	W of Llanada.
33	Sept. 19	2.9	12-16-28.3	36° 53.6	121° 38.7	a	11	E of Watsonville.
37	Sept. 19	2.6	18-36-05.0	37° 00.2	121° 37.6	a	10	W of Gilroy.
38	Sept. 21	3.8	04-32-45.2	37° 15.9	121° 40.8	b	17	N of Gilroy. Felt in Aptos, Gilroy, Milpitas, Morgan Hill. USCGS: 37° 16' N, 121° 40' W, O = 04-32.
39	Sept. 21	3.1	10-49-11.9	38° 02.8	118° 58.6	c	13	Near Mono Lake.
-$	Sept. 22	4.3	15-58-06.1	41°.9	126°.7	d	12	Off Cape Mendocino. (USCGS)
*40	Sept. 25	3.1	04-16-41.3	39° 26.0	123° 28.4	b	7	W of Willits.


EARTHQUAKES
in
NORTHERN CALIFORNIA,
ports of
NEVADA & OREGON
JULY 1 TO SEPTEMBER 30, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
• = SEISMOGRAPHIC STATION
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
SCC
HC
HAWTHORNE
MONTERREY
HOLLISTER
MERCED
YOSEMITE
(VIN)
PRS
LLA
TONOPAH
KING CITY
FRE
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
1
2
4
7
12
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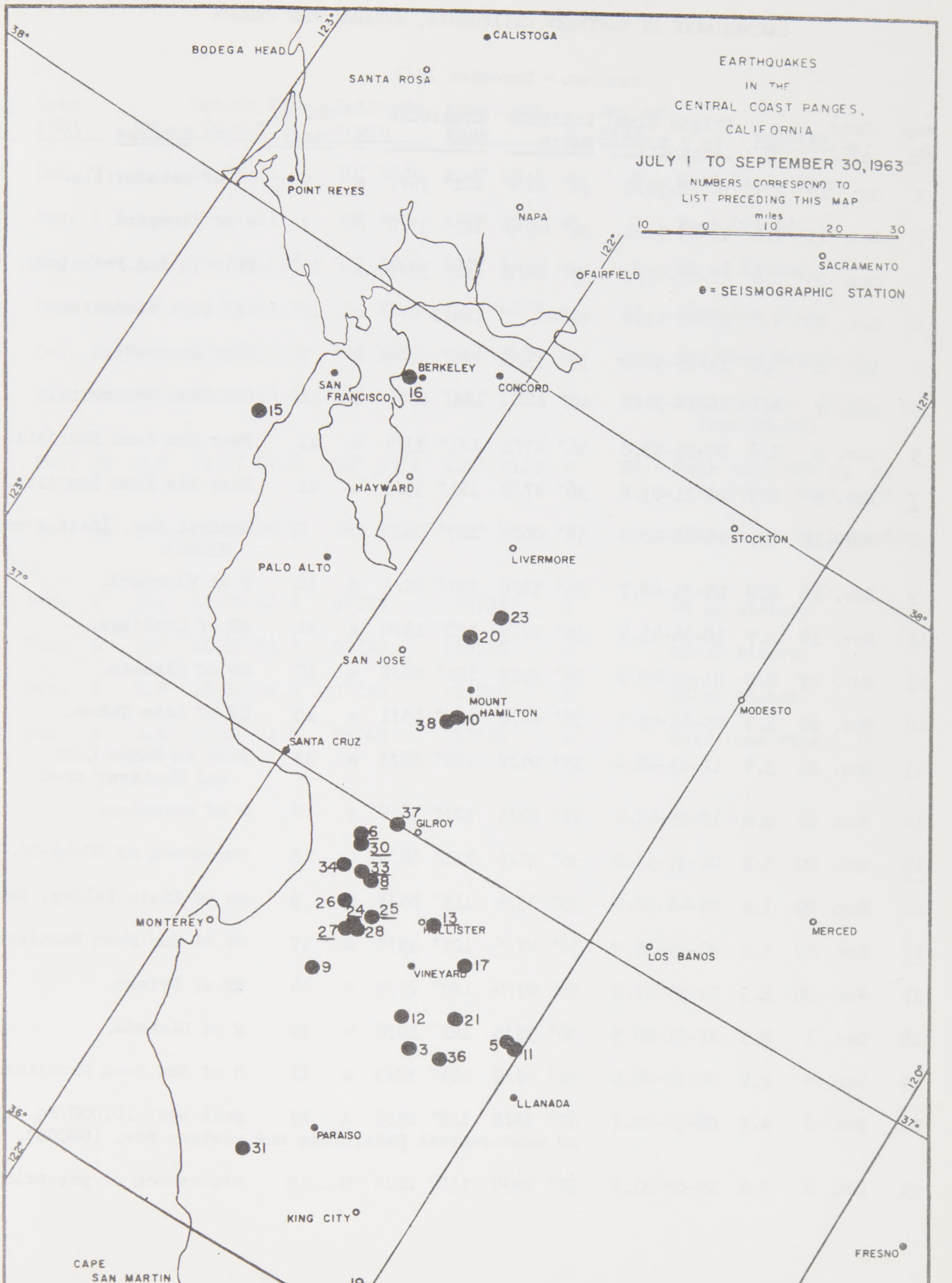
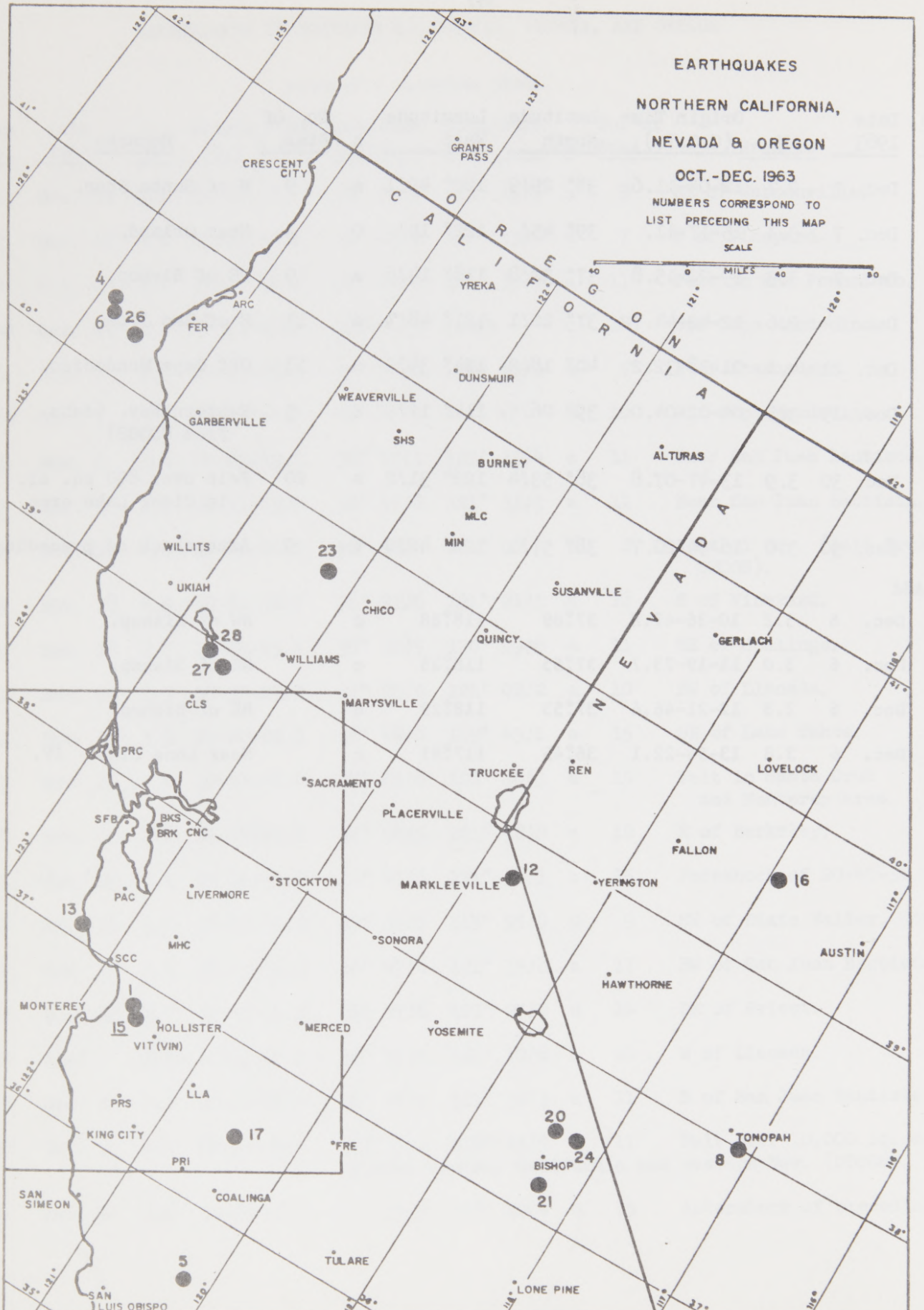

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JULY 1 TO SEPTEMBER 30, 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
⊕ = SEISMOGRAPHIC STATION
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
38°
123°
122°
121°
37°
36°
120°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

October - December 1963

Map No.	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Oct. 12	3.1	14-18-30.0	36° 50.4	121° 39.7	a	9	SE of Watsonville.
2	Oct. 15	2.6	23-25-51.1	36° 45.5	121° 33.0	d	7	W of Vineyard.
3	Oct. 25	2.6	11-07-47.5	37° 44.2	122° 33.9	a	11	Felt in San Francisco.
4$	Oct. 29	4.3	07-01-41.4	40°.4	124°.9	c	18	Off Cape Mendocino.
5	Nov. 1	3.4	14-05-56.0	35° 33.8	120° 13.9	a	9	E of Atascadero.
6$	Nov. 7	3.7	16-39-53.0	40° 24'	124° 43'	a	10	Off Cape Mendocino.
7	Nov. 9	2.8	00-05-59.8	36° 47.1	121° 33.4	a	11	Near San Juan Bautista.
7	Nov. 9	2.9	01-31-03.2	36° 47.0	121° 33.3	a	11	Near San Juan Bautista.
8	Nov. 16	4.0	16-48-10.2	38° 00.'	117° 06.	c	2	Central Nev. (data from USCGS).
9	Nov. 18	2.9	09-31-48.7	36° 32.6	121° 21.1	d	18	S of Vineyard.
10	Nov. 18	2.7	10-54-45.4	36° 22.5	120° 19.6	a	11	NE of Coalinga.
11	Nov. 19	2.9	03-33-09.2	36° 25.5	121° 02.2	a	10	SW of Llanada.
12	Nov. 20	3.3	05-28-05.5	38° 44.0	119° 45.1	a	15	SE of Lake Tahoe.
13	Nov. 21	3.4	12-43-48.4	37° 05.8	122° 18.3	a	15	Felt in Santa Cruz and Monterey area.
14	Nov. 21	2.6	19-25-43.4	37° 50.5	121° 58.8	c	12	E of Berkeley.
15	Nov. 29	3.2	01-35-53.2	36° 45.6	121° 36.1	b	15	Foreshock of 20-49-36.0.
16	Nov. 29	3.2	08-48-56.0	39° 33.6	117° 55.8	0	9	SW of Dixie Valley, Nev.
15	Nov. 29	3.6	20-49-36.0	36° 47.6	121° 35.8	a	17	SW of San Juan Bautista.
17	Nov. 30	3.3	22-55-51.9	36° 27.6	120° 27.9	d	14	NE of Priest.
18	Dec. 1	2.5	17-01-26.5	36° 35.5	121° 10.6	b	10	W of Llanada.
19	Dec. 4	2.6	06-18-26.6	36° 47.5	121° 32.3	a	11	S of San Juan Bautista.
20	Dec. 6	4.7	08-34-25.7	37° 32.2	118° 25.5	d	17	Felt over 10,000 sq. mi. of east-central California and western Nev. (USCGS).
21	Dec. 6	3.6	10-09-31.4	37° 10.8	118° 20.4	0	15	Aftershock of preceding.

Map No. ##	Date 1963	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
22	Dec. 7	2.7	12-04-11.6	38° 29.'9	122° 42.'1	a	9	N of Santa Rosa.
23	Dec. 7	3.1	15-17-11.	39° 45.'	122° 15.'	0	3	Near Orland.
24	Dec. 7	3.3	19-20-15.8	37° 32.'8	118° 14.'8	a	9	NE of Bishop.
25	Dec. 14	2.6	12-42-44.7	37° 22.'1	121° 48.'7	a	13	E of San Jose.
26	Dec. 21	4.1	01-38-32.2	40° 18.'9	124° 34.'9	a	13	Off Cape Mendocino.
-	Dec. 29	3.5	04-02-04.0	39° 06.'	114° 12.'	d	3	Eastern Nev. (data from USCGS).
27	Dec. 30	3.9	13-47-07.8	38° 53.'4	122° 31.'2	a	20	Felt over 800 sq. mi. in Clear Lake area.
28	Dec. 30	3.0	16-50-20.7	38° 57.'1	122° 42.'0	a	9	Aftershock of preceding.
## Add								
CIT	Dec. 6	3.2	10-36-47.8	37°.89	118°.88	d		NW of Bishop.
CIT	Dec. 6	3.0	11-19-23.7	37°.55	118°.25	c		NE of Bishop.
CIT	Dec. 6	2.8	12-21-46.4	37°.53	118°.29	c		NE of Bishop.
CIT	Dec. 6	3.8	13-54-22.1	36°.45	117°.91	c		Near Lone Pine. IV.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCT.-DEC. 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
OREGON
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
SONORA
AUSTIN
MHC
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VIT (VIN)
PRS
LLA
KING CITY
FRE
TONOPAH
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
SAN LUIS OBISPO
LONE PINE
4
6
26
23
28
27
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1
15
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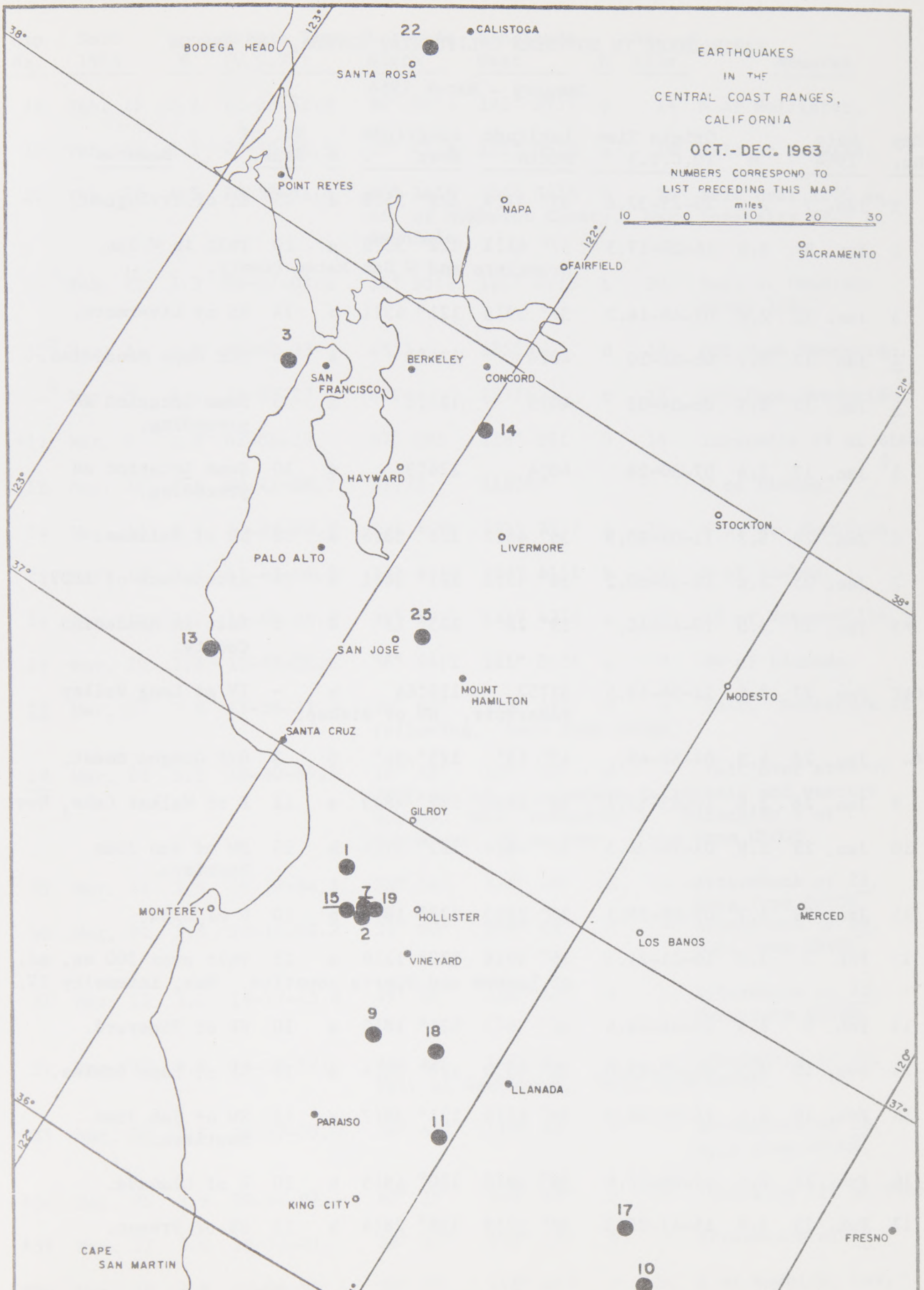
24
21
8
5

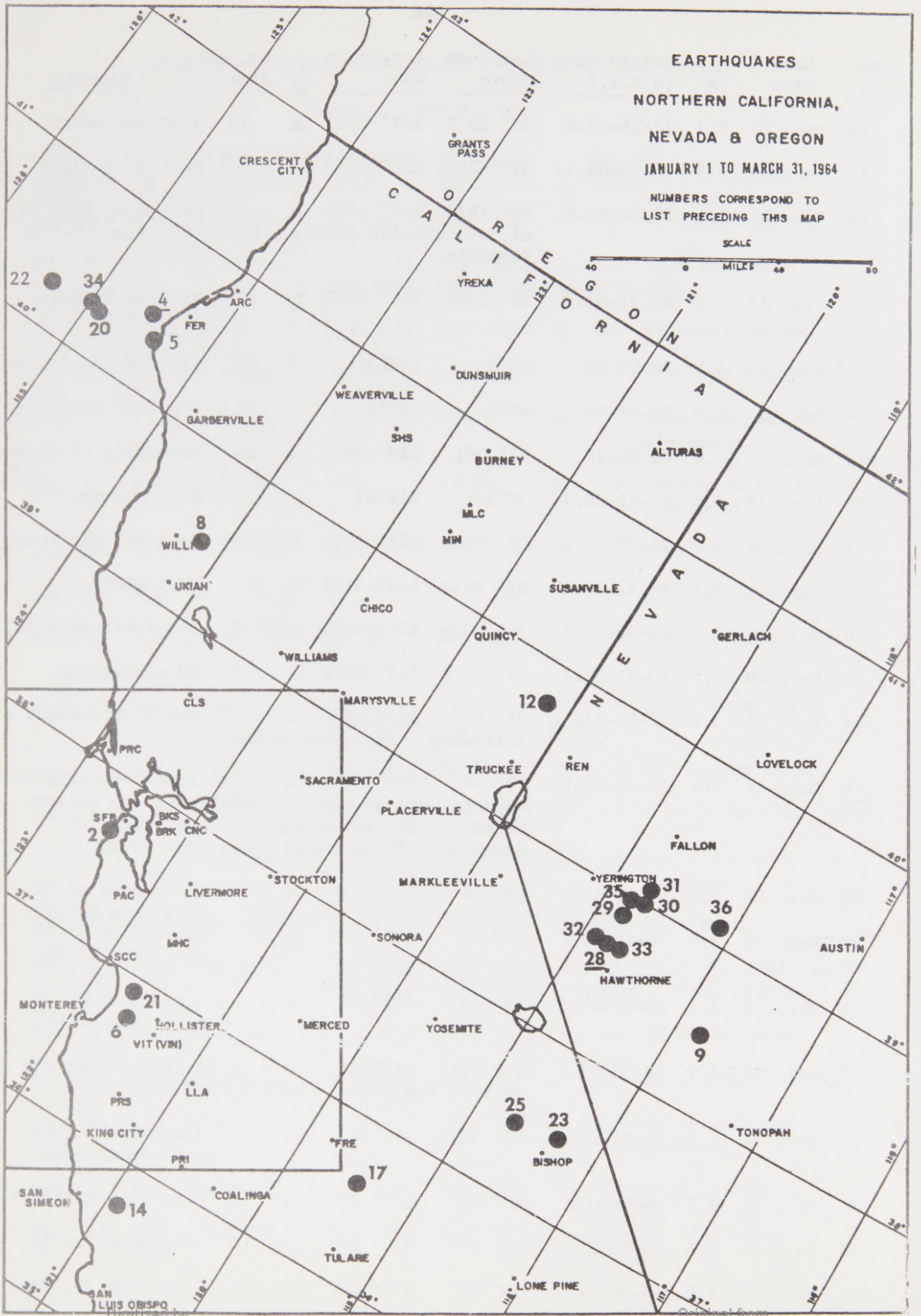

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
OCT. - DEC. 1963
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
22
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
3
BERKELEY
SAN FRANCISCO
CONCORD
14
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
25
13
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
1
15
7
19
2
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
9
18
LLANADA
PARAISO
11
KING CITY
17
FRESNO
CAPE SAN MARTIN
10
38°
123°
122°
121°
120°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - March 1964

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Jan. 7	2.6	20-25-37.6	37° 31!9	121° 55!8	a	15	E. of Irvington.
2	Jan. 9	3.0	16-20-17.5	37° 41!1	122° 33!2	a	10	Felt in W San Francisco and W San Mateo County.
3	Jan. 12	2.6	07-48-14.2	37° 39!3	121° 43!1	b	14	SE of Livermore.
4$	Jan. 17	3.7	06-02-20	40°.4	124°.4	a	16	Off Cape Mendocino.
4$	Jan. 17	3.5	06-04-02	40°.5	124°.5	a	5	Same location as preceding.
5$	Jan. 17	3.4	07-50-24	40°.4	124°.3	d	10	Same location as preceding.
6	Jan. 24	3.2	11-09-20.9	36° 44!1	121° 38!6	a	18	NE of Salinas.
7	Jan. 25	2.6	19-36-30.2	36° 45!1	121° 36!1	a	14	Aftershock of 1109.
*8	Jan. 27	3.0	10-44-10.	39° 28'	123° 11'	0	9	Felt in Mendocino County.
CIT	Jan. 27	3.6	11-56-14.5	37°.52	118°.64	b	-	IV at Long Valley Reservoir. NW of Bishop.
*-	Jan. 28	4.5	04-56-49.	43° 18'	125° 54'	0	3	Off Oregon coast.
9	Jan. 28	3.4	10-43-55.1	38° 28!6	117° 48!3	a	11	E of Walker Lake, Nev.
10	Jan. 29	2.9	01-14-02.3	36° 48!4	121° 37!4	b	15	SW of San Juan Bautista.
11	Jan. 29	2.7	07-29-38.1	38° 22!3	122° 18!3	b	10	N of Napa.
12	Feb. 3	3.5	10-21-24.3	39° 45!8	120° 12!9	a	15	Felt over 300 sq. mi. of Lassen and Sierra counties. Max. intensity IV.
13	Feb. 8	2.5	22-48-55.4	36° 36!1	121° 18!0	a	10	SE of Vineyard.
14	Feb. 10	3.9	05-47-25.0	35° 45!0	120° 56!4	a	19	NE of Paso Robles.
15	Feb. 10	2.5	11-06-20.3	36° 47!5	121° 38!7	a	13	SW of San Juan Bautista.
16	Feb. 11	2.6	15-26-57.8	36° 34!8	120° 48!5	b	10	E of Llanada.
17	Feb. 15	3.0	15-47-25.3	36° 37!2	119° 28!4	b	11	SE of Fresno.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
18	Feb. 15	2.7	22-28-42.0	36° 55!1	121° 27!7	a	14	N of Hollister.
19	Feb. 26	2.5	09-50-00.5	37° 41!8	122° 09!3	a	16	Felt at Hayward.
20	Feb. 26	4.5	20-32-51.4	40° 18!5	124° 53!5	c	20	Felt over 1200 sq. mi. of Humboldt County. Max. intensity IV-V at Ferndale.
21	Feb. 27	3.3	08-37-02.6	36° 55!2	121° 41!5	b	20	Felt at Mountain View, III.
22[$]	Mar. 3	4.5	20-02-33	40°!3	125°!3	d	18	Off Cape Mendocino.
-[$]	Mar. 5	4.4	11-42-23	40°!4	127°!4	c	17	Off Cape Mendocino.
*23	Mar. 9	3.9	02-06-29.	37° 29!	118° 20!	0	14	Intensity IV at Bishop.
CIT	Mar. 12	3.5	04-41-08.7	37°!33	118°!67			W of Bishop.
24	Mar. 13	2.7	22-29-00.8	37° 16!6	121° 39!7	b	15	S of Mt. Hamilton.
25	Mar. 14	3.5	17-42-26.8	37° 25!8	118° 41!1	b	15	W of Bishop.
26	Mar. 16	2.7	14-06-24.7	36° 50!5	121° 42!4	a	10	SE of Watsonville.
27	Mar. 20	2.6	13-15-51.0	36° 24!2	121° 01!6	a	7	SW of Llanada.
28	Mar. 22	3.8	15-56-21.3	38° 42'	118° 48'	d	-	Felt. Foreshock of following. Data from USCGS.
28	Mar. 22	5.5	16-30-55.9	38° 42'	118° 48'	d	-	Felt over area of 7500 sq. mi. of eastern California and western Nevada. Max. intensity V. Intensity V at Hawthorne, IV at Reno. Data from USCGS.
29	Mar. 22	3.5	16-39-54.5	38° 54'	118° 48'	d	-	Aftershock of 28. Data from USCGS.
30	Mar. 22	3.5	18-14-52.2	39° 00'	118° 42'	d	-	Aftershock of 28. Data from USCGS.
31	Mar. 22	3.5	18-17-45.8	39° 06'	118° 42'	d	-	Aftershock of 28. Data from USCGS.
32	Mar. 23	3.9	15-32-57.0	38° 42'	118° 54'	d	-	Aftershock of 28. Felt at Hawthorne. Data from USCGS.
33	Mar. 24	3.5	23-57-10.0	38° 42'	118° 42'	d	-	Aftershock of 28. Data from USCGS.
*34	Mar. 25	3.9	08-46-07.	40° 19'	125° 00'	0	15	Intensity III at Scotia.
*35	Mar. 27	3.0	13-51-21.	38° 59'	118° 49'	0	7	Aftershock of 28.
*36	Mar. 28	3.9	23-05-54	39° 07.	118° 07'	0	14	E of Rawhide, Nev.



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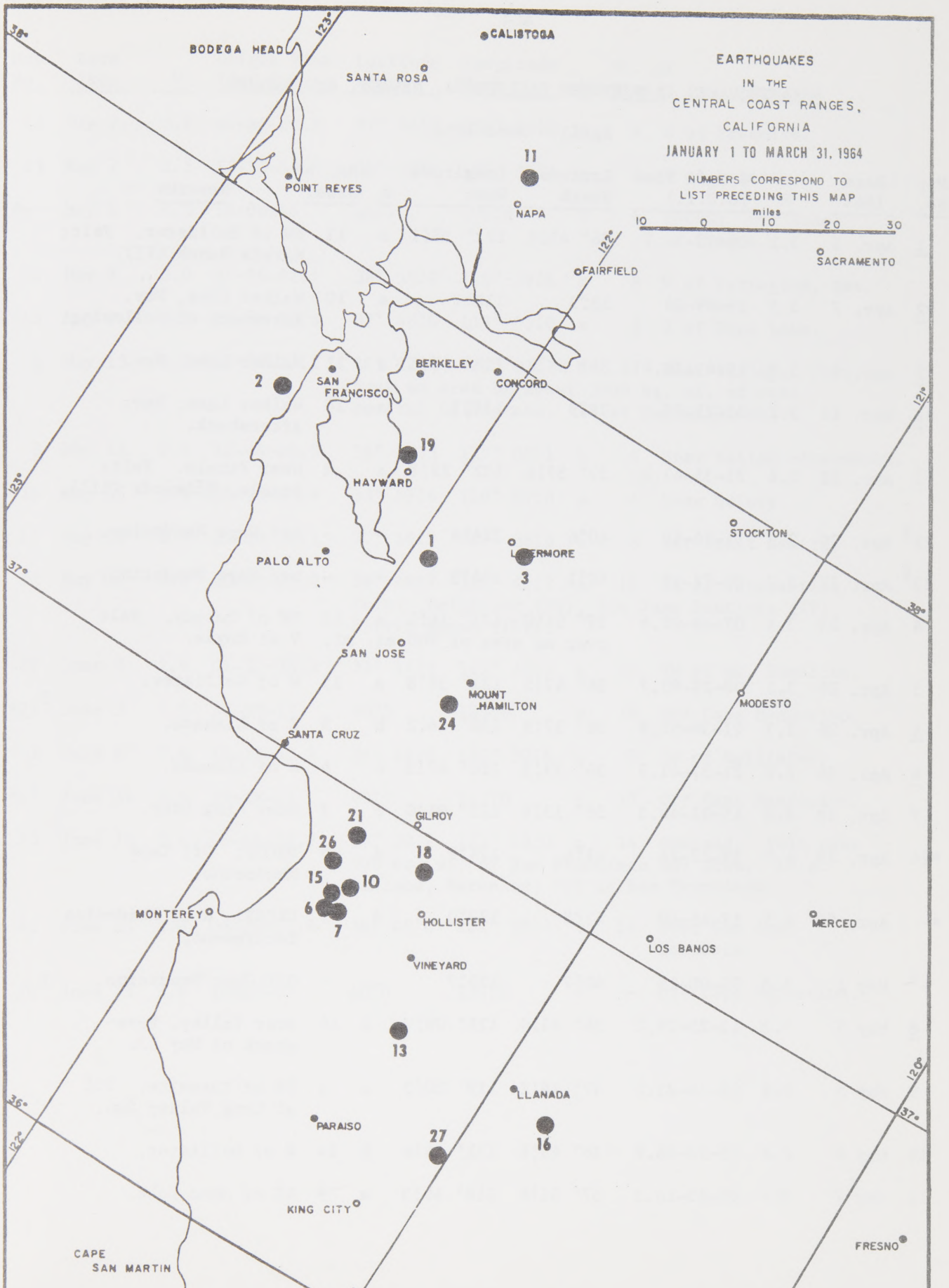
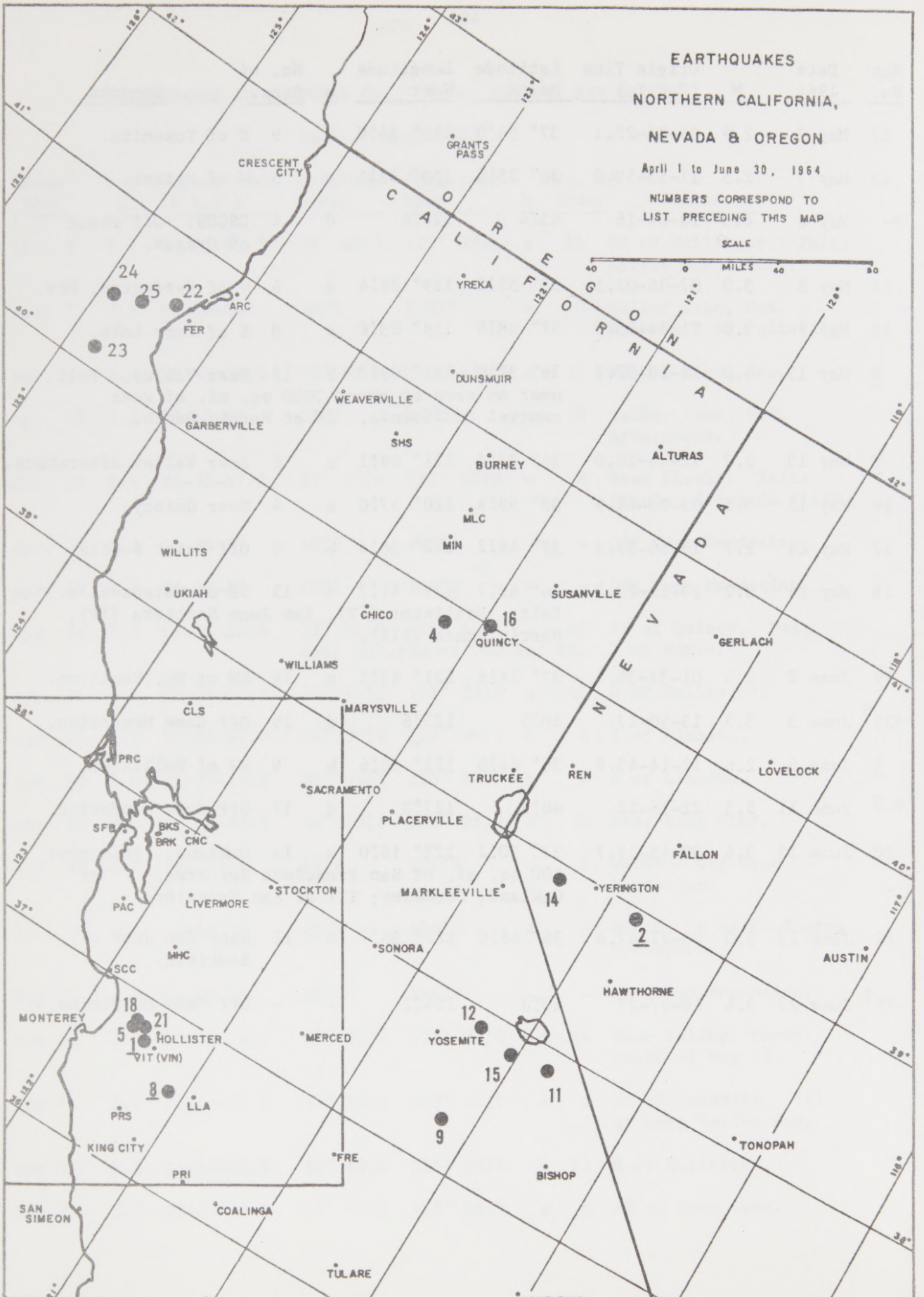

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JANUARY 1 TO MARCH 31, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
38°
123°
122°
121°
120°
37°
36°
BODEGA HEAD
CALISTOGA
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
STOCKTON
PALO ALTO
LIVERMORE
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
FRESNO
CAPE SAN MARTIN
11
2
19
1
3
24
21
26
18
15
10
6
7
13
27
16

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

April - June 1964

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Apr. 3	3.1	06-35-51.7	36° 45!2	121° 30!1	a	11	SW of Hollister. Felt: Harris Ranch (II).
*2	Apr. 7	3.5	19-09-04	38°.9	118°.7	a	10	Walker Lake, Nev. Foreshock of following.
2	Apr. 9	3.7	18-43-20.4	38° 55!6	118° 43!6	a	11	Walker Lake, Nev.
*2	Apr. 11	3.2	03-25-08	38°.9	118°.7	a	10	Walker Lake, Nev. Aftershock.
3	Apr. 12	2.4	21-35-47.2	37° 57!6	122° 22!8	a	8	Near Pinole. Felt: Pinole, Etiwanda (III).
22$	Apr. 20	3.3	11-56-59	40°.6	124°.4	-	-	Off Cape Mendocino.
23$	Apr. 22	3.7	00-22-10	40°.1	124°.8	-	-	Off Cape Mendocino.
4	Apr. 24	3.4	07-44-02.6	39° 51!0	121° 16!2	a	15	SW of Quincy. Felt over an area of 900 sq. mi. V at Doyle.
5	Apr. 26	3.1	08-29-00.7	36° 47!5	121° 39!8	a	15	W of Hollister.
6	Apr. 26	2.7	21-36-52.9	36° 37!9	120° 46!2	b	8	E of Llanada.
6	Apr. 26	2.6	21-37-41.9	36° 37!3	120° 47!3	b	6	E of Llanada.
7	Apr. 28	2.8	15-01-48.3	36° 13!8	121° 05!0	b	7	Near King City.
*24	Apr. 29	4.6	19-22-24	41°.4	124°.9	d	5	USCGS: Off Cape Mendocino.
*-	Apr. 29	4.5	19-46-40	41°.8	127°.0	d	5	USCGS: N of Mendocino Escarpment.
-$	May 1	3.8	03-00-15	40°.7	126°.7	-	-	Off Cape Mendocino.
8	May 5	3.3	13-25-29.2	36° 33!0	121° 09!0	a	16	Bear Valley. Foreshock of May 13.
9	May 5	2.8	21-14-25.2	37° 18!2	119° 20!3	a	6	SE of Yosemite. III at Long Valley Dam.
10	May 6	2.8	15-58-06.9	36° 49!6	121° 34!6	b	14	W of Hollister.
11	May 7	3.7	02-23-18.3	37° 51!6	118° 46!3	a	9	SE of Mono Lake.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
12	May 7	2.9	04-24-22.1	37° 54!0	119° 24!0	a	9	E of Yosemite.
13	May 7	2.5	17-53-58.0	36° 25!6	120° 32!6	a	5	N of Priest.
*-	May 8	4.3	10-04-16	43°.4	126°.6	d	4	USCGS: Off coast of Oregon.
14	May 9	3.0	07-06-02.1	38° 55!2	119° 29!4	a	6	W of Yerington, Nev.
15	May 9	3.0	21-54-03.5	37° 48!0	119° 03!0	a	8	S of Mono Lake.
8	May 13	4.0	12-18-37.2	36° 32!9	121° 09!7	b	17	Bear Valley. Felt over an area of about 3000 sq. mi. of west central California. IV at Harris Ranch.
8	May 13	2.7	12-44-26.0	36° 33!3	121° 09!1	b	6	Bear Valley aftershock.
16	May 15	3.1	05-33-41.9	39° 59!4	120° 57!0	a	4	Near Quincy.
17	May 24	2.7	16-50-39.1	37° 49!2	122° 36!4	b	6	Off Point Bonita.
18	May 24	3.2	20-12-23.2	36° 49!7	121° 41!7	a	15	SE of Watsonville. Felt: Hollister (IV), San Juan Bautista (IV), Harris Ranch (III).
19	June 2	2.9	01-37-36.5	37° 14!6	121° 43!1	a	14	SW of Mt. Hamilton.
*25$	June 3	3.9	13-50-17	40°.5	125°.6	d	16	Off Cape Mendocino.
1	June 6	2.6	12-14-43.9	36° 44!0	121° 30!6	b	8	SW of Hollister.
*-$	June 11	5.5	22-18-12	40°.7	127°.0	d	17	Off Cape Mendocino.
20	June 13	3.4	00-42-56.7	37° 50!2	122° 18!0	a	14	Oakland. Felt over 500 sq. mi. of San Francisco Bay area. IV at Oakland, Berkeley; III at San Francisco.
21	June 13	3.0	08-21-47.8	36° 48!0	121° 35!7	a	11	Near San Juan Bautista.
26$	June 23	3.6	16-07-27	40°.0	124°.2	-	-	Off Cape Mendocino.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
April 1 to June 30, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
QUINCY
SUSANVILLE
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
SACRAMENTO
TRUCKEE
REN
LOVELOCK
SFB
BKS
BRK
CNC
PLACERVILLE
FALLON
PAC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
MHC
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
VIT (VIN)
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
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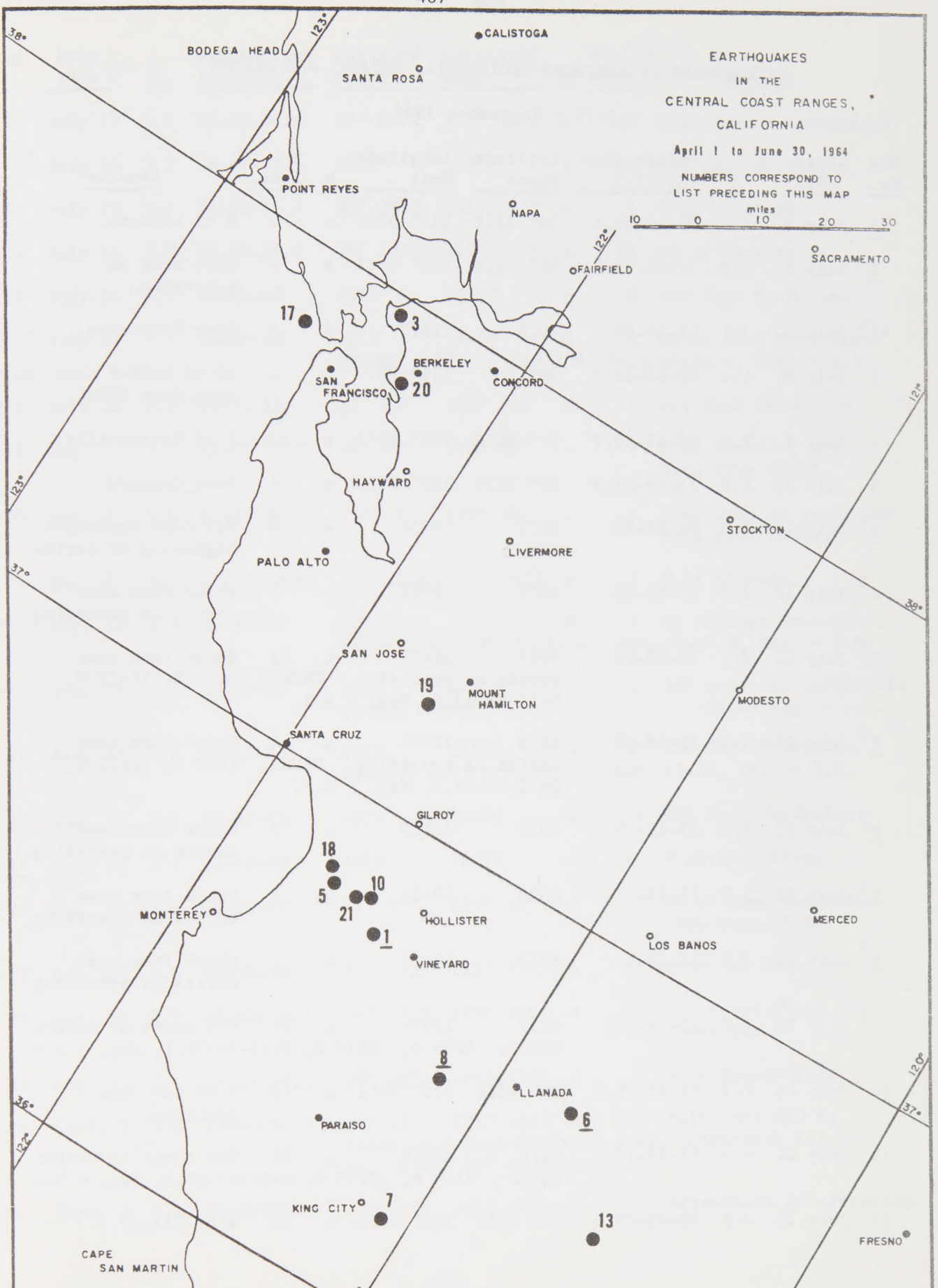

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
April 1 to June 30, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
17
3
20
19
18
5
10
21
1
8
6
7
13
38°
123°
122°
121°
37°
36°
120°

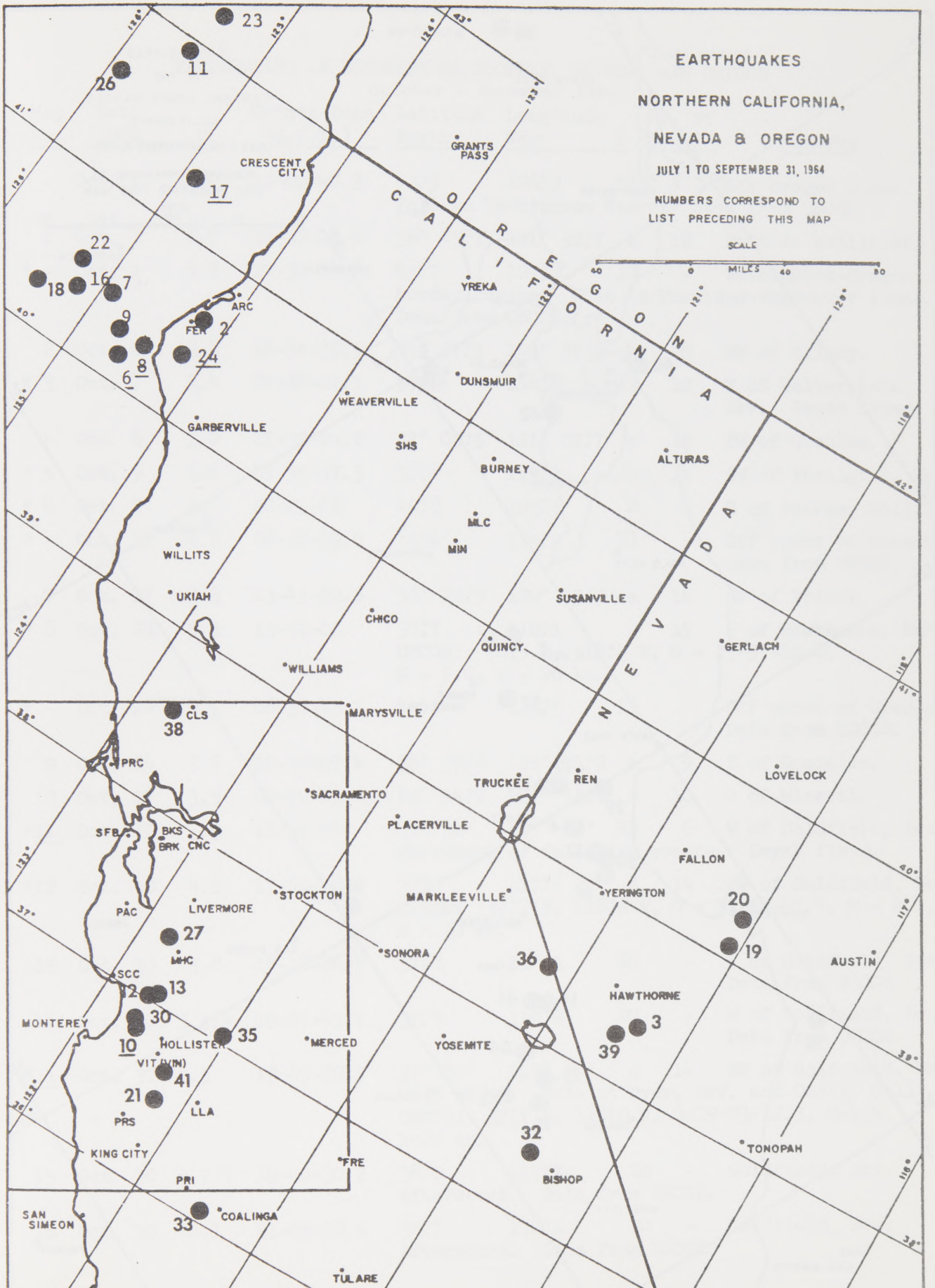
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - September 1964

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	July 2	2.7	09-29-52.6	36° 31!7	121° 06!6	a	6	W of Llanada.
1	July 2	2.8	12-31-15.9	36° 31!8	121° 06!2	a	7	Same area as preceding.
*2$	July 3	3.1	17-19-04	40°.6	124°.2	0	3	Cape Mendocino.
3	July 8	4.4	05-55-42.2	38° 24'	118° 24'	d	-	SE of Walker Lake, Nev. Data from USCGS.
4	July 9	2.9	00-45-42.7	36° 56!5	121° 39!5	a	13	E of Watsonville.
5	July 11	2.8	13-48-21.3	37° 57!9	122° 02!3	c	11	Near Concord.
6$	July 12	3.3	04-18-52	40°.2	124°.6	a	8	Off Cape Mendocino. Beginning of series.
6$	July 12	3.0	07-18-08	40°.2	124°.5	a	7	Shock from same series as preceding.
7$	July 12	3.2	11-58-52	40°.5	124°.9	a	11	Shock from same series as preceding. USCGS: 40°.2 N, 124°.7 W, 0=11-58-57.0, Mag. = 4.2.
8$	July 12	3.7	12-18-28	40°.3	124°.5	a	14	Shock from same series as preceding. USCGS: 40°.3 N, 126°.1 W, 0=12-18-19.1, Mag. = 4.7.
8$	July 12	3.4	13-48-09	40°.3	124°.5	a	9	Shock from same series as preceding.
9$	July 12	3.3	15-19-47	40°.3	124°.7	a	7	Shock from same series as preceding.
8$	July 12	3.2	18-23-16	40°.3	124°.5	a	7	Shock from same series as preceding.
-$	July 13	4.2	11-54-32	42°.7	128°.4	a	14	Off coast of Oregon. USCGS: 42°.5 N, 126°.7 W, 0=11-54-50.7, Mag. = 5.6.
10	July 14	2.7	11-17-19.8	36° 48!6	121° 39!1	a	13	W of San Juan Bautista.
11$	July 14	4.3	12-47-22	41°.9	125°.6	a	16	Off coast of Oregon. USCGS: 41°.8 N, 125°.7 W, 0=12-47-25.6, Mag. = 5.4.
12	July 16	3.2	08-05-02.5	37° 03!4	121° 40!9	a	14	W of Gilroy.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
13	July 17	3.1	08-05-00.4	37° 04!2	121° 38!9	a	13	Same area as preceding.
-[$]	July 23	3.7	08-47-07	40°0	127°3	a	10	Off Cape Mendocino.
14	July 23	2.7	21-02-55.1	36° 38!7	121° 19!7	b	6	S of Vineyard.
15	July 24	2.9	07-09-35.9	36° 27!9	121° 10!9	a	15	NE of Paraiso.
16[$]	July 24	3.7	10-56-48	40°4	125°2	a	8	Off Cape Mendocino.
* -[$]	July 27	3.7	18-40-43	42°3	126°0	0	3	NW of Cape Mendocino. USCGS: 42°4 N, 125°3 W, 0=18-40-53.4, Mag. = 4.5.
*18	July 31	3.7	01-13-11	40° 16'	125° 28'	0	6	Off Cape Mendocino.
19	Aug. 2	4.0	13-29-07.3	39° 06'	118° 06'	c	-	E of Rawhide, Nev. Data from USCGS.
20	Aug. 4	3.6	07-22-51.6	39° 18'	118° 06'	c	-	Same area as preceding. Data from USCGS.
21	Aug. 4	3.2	22-07-28.9	36° 30!9	121° 14!2	a	6	W of Llanada.
* -[$]	Aug. 13	3.9	06-35-37	42°0	126°1	0	6	NW of Cape Mendocino. USCGS: 42°2 N, 126°1 W, 0=06-35-39.0, Mag. = 4.9.
*23[$]	Aug. 13	3.7	08-50-46	42°3	125°5	0	5	Off coast at California-Oregon border. USCGS Mag. = 4.9.
22[$]	Aug. 18	3.9	02-13-43	40°5	125°2	a	16	Off Cape Mendocino. USCGS: 40°3 N, 125°7 W, 0=02-13-37, Mag. = 5.0.
24[$]	Aug. 22	3.6	22-27-53	40°4	124°2	a	8	Off Cape Mendocino.
24[$]	Aug. 22	3.2	23-45-38	40°4	124°2	a	11	N of Fort Bragg.
*26	Aug. 28	3.1	10-51-28	41° 36'	125° 54'	d	-	NW of Cape Mendocino. Data from USCGS.
27	Aug. 29	3.0	00-39-50.5	37° 23!5	121° 47°7	b	11	E of San Jose.
28	Aug. 30	2.9	03-41-10.4	36° 17!8	121° 56!7	a	7	Off coast NW of Point Sur.
29	Aug. 31	2.5	17-10-19.1	36° 59°1	121° 47!0	c	6	N of Watsonville.
30	Sept. 1	3.8	19-49-16.5	36° 52!2	121° 41!1	a	16	Felt over 500 sq. miles of Gilroy-Monterey area. Intensity III-IV at Gilroy, III at Monterey.
31	Sept. 1	2.6	19-52-06.3	36° 52!6	121° 40!4	a	7	Aftershock of preceding.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
10	Sept. 1	3.0	22-33-29.4	36° 49!7	121° 38!9	b	15	Aftershock of preceding.
10	Sept. 2	2.7	01-58-06.4	36° 49!8	121° 38!6	b	13	Aftershock of preceding.
10	Sept. 3	3.0	13-56-59.3	36° 49!6	121° 39!7	b	14	Aftershock of preceding.
32	Sept. 4	4.1	20-20-24.8	37° 24'	118° 36'	d	-	Intensity IV at Control Gorge Power Plant near Bishop, California.
33	Sept. 12	3.1	01-45-53.5	36° 05!2	120° 29!6	d	10	SE of Priest.
34	Sept. 18	2.7	04-35-29.5	36° 34!8	121° 13!4	a	9	W of Llanada.
35	Sept. 18	3.0	14-35-14.9	37° 03!5	121° 02!5	a	9	S of Gustine.
36	Sept. 19	3.0	20-24-10.0	38° 25!8	119° 15!0	a	7	N of Bridgeport.
17[$]	Sept. 20	3.5	07-41-29	41°3	124°9	a	11	Off Cape Mendocino.
17[$]	Sept. 20	3.5	07-42-28	41°3	124°9	a	9	Off Cape Mendocino. USCGS Mag. = 4.3.
37	Sept. 23	2.9	00-36-00.3	37° 16!7	121° 42!1	a	11	Near Mt. Hamilton.
38	Sept. 23	3.0	16-30-12.9	38° 35!0	122° 43!1	a	7	SW of Calistoga.
*39	Sept. 24	3.5	12-51-33	38° 18'	118° 30'	d	-	SE of Walker Lake, Nev. Data from USCGS.
*-	Sept. 24	4.5	13-59-36.8	43° 30'	127° 30'	d	-	Off coast of Oregon. Data from USCGS.
-	Sept. 28	4.8	15-43-13	43° 30'	127° 06'	c	4	Off coast of Oregon. Data from USCGS.
40	Sept. 29	2.3	02-48-27.6	37° 44!6	122° 32!1	a	8	Felt in San Francisco.
41	Sept. 30	3.1	08-33-02.2	36° 40!6	121° 18!0	a	13	Felt at Hollister.
42	Sept. 30	2.9	16-11-44.0	37° 45!2	122° 15!1	a	10	Felt at Oakland.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO SEPTEMBER 31, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FER
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
CLS
MARYSVILLE
PRC
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
SFB
BKS
BRK
CNC
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
MHC
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VIT (VIN)
LLA
PRS
KING CITY
TONOPAH
FRE
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
23
11
26
17
22
18
16
7
9
2
24
8
6
27
13
12
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35
41
21
33
36
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39
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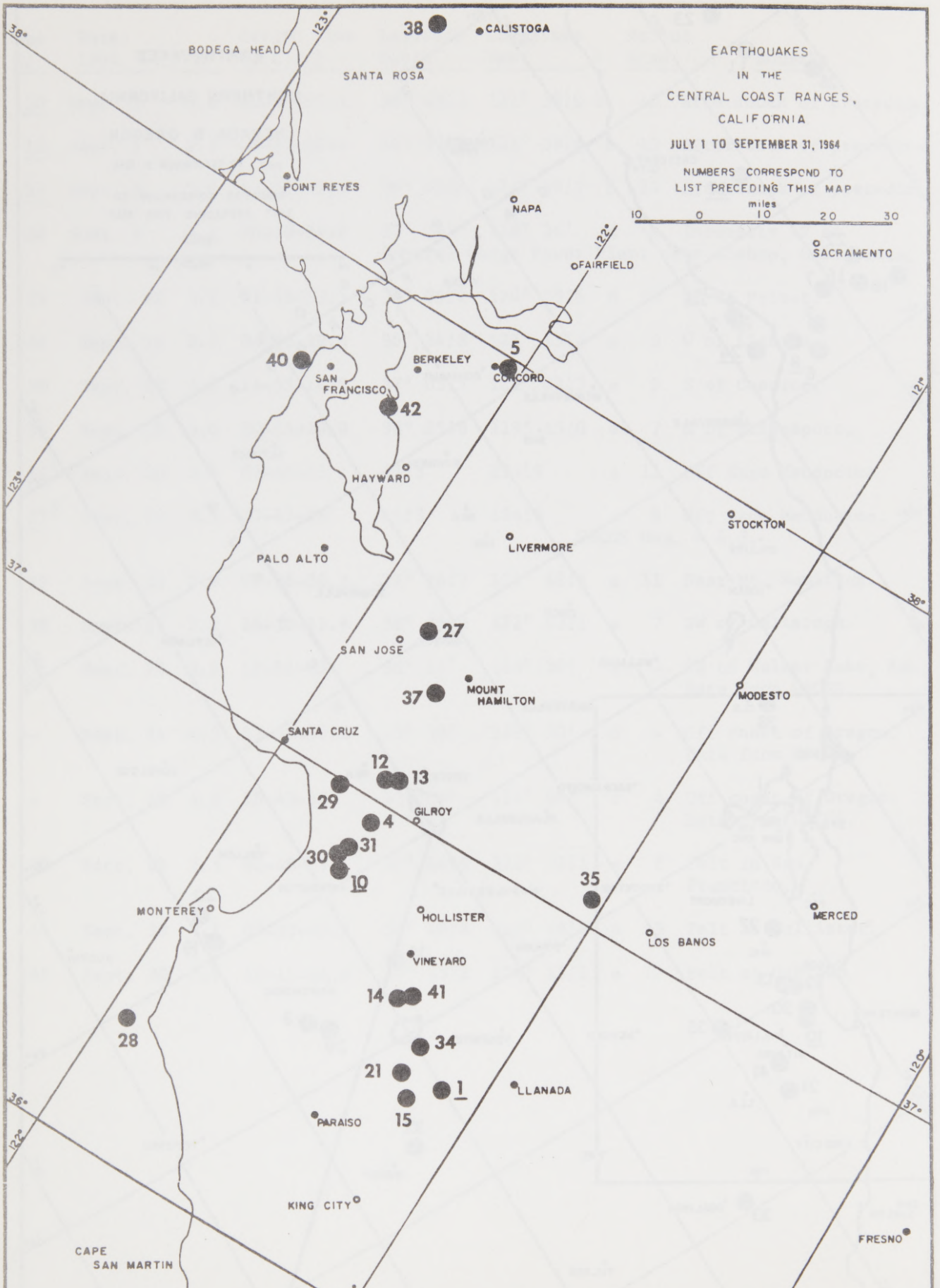
19
32
38


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JULY 1 TO SEPTEMBER 31, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
38
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
SACRAMENTO
FAIRFIELD
40
BERKELEY
5
SAN FRANCISCO
CONCORD
42
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
27
SAN JOSE
37
MOUNT HAMILTON
MODESTO
SANTA CRUZ
12
13
29
GILROY
4
30
31
10
35
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VINEYARD
14
41
28
34
21
1
LLANADA
PARAISO
15
KING CITY
FRESNO
CAPE SAN MARTIN
123°
122°
121°
120°
38°
37°
36°

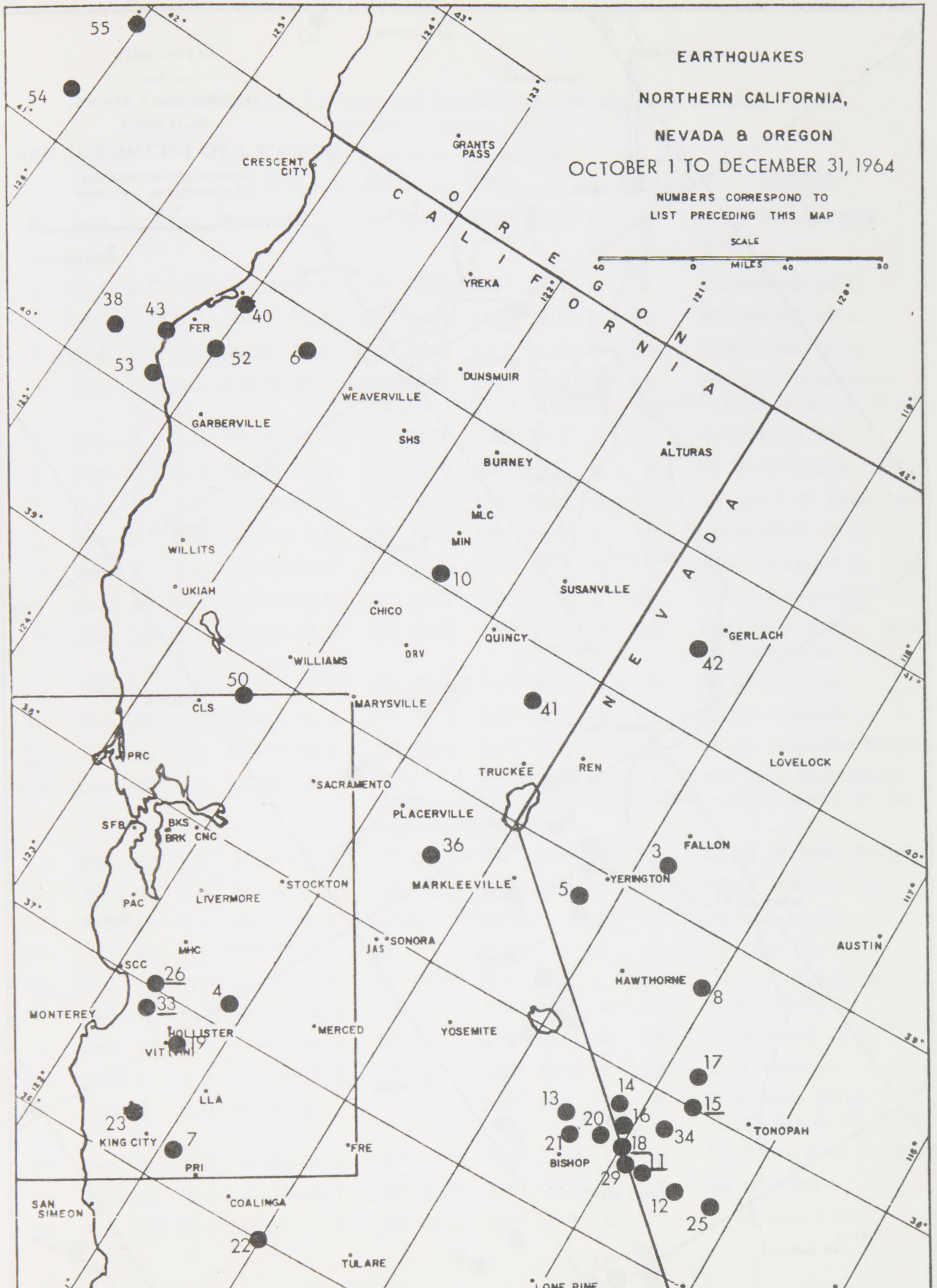
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
October - December 1964

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
-	Oct. 1	6.0	11-00-48.3	43°.5	126°.9	33	-	Off Oregon coast. Felt in Washington State. Data from USCGS.
1	Oct. 1	2.7	12-30-16.8	36° 45'.1	121° 32'.7	a	12	Felt at Hollister.
* -	Oct. 1	5.3	12-31-24.6	45°.7	122°.8	33	-	Washington-Oregon border region. Felt in Portland-Vancouver areas. Data from USCGS.
2	Oct. 2	2.6	16-34-39.5	36° 57'.1	121° 37'.9	b	8	SW of Gilroy.
* 3	Oct. 7	3.4	07-37-07.1	39°.2	118°.8	33	10	N of Walker Lake, Nev. Depth fixed.
4	Oct. 8	3.2	15-32-24.2	37° 09'.5	121° 07'.7	b	14	SW of Gustine.
* 5	Oct. 9	3.6	07-55-37.3	38°.8	119°.3	33	14	SW of Yerington, Nev.
* 6	Oct. 9	3.2	22-23-02	40°.8	123°.4	2	4	E of Eureka, Calif.
* -	Oct. 11	4.6	06-10-09.0	43°.8	129°.3	33	-	Off coast of Oregon. Data from USCGS.
7	Oct. 17	3.3	23-43-22.6	36° 12'.5	120° 55'.0	a	14	NW of Priest.
* 8	Oct. 23	5.3	13-57-05	38°.7	118°.1	d	15	E of Hawthorne, Nev. USCGS: 38°.5 N, 118°.4 W, O = 13-57-10.6, M = 5.0, h = 26 km.
* -	Oct. 24	4.5	06-37-45.7	44°.5	129°.5	33	-	Off coast of Oregon. Data from USCGS.
9	Oct. 24	2.5	10-50-27.4	36° 35'.9	121° 15'.0	b	9	E of Gonzales.
10	Oct. 27	3.5	00-32-23.2	40° 04'.2	121° 33'.2	a	10	S of Mineral.
*11	Oct. 30	3.5	17-44-47	37° 30'	117° 48'	33	6	W of Goldfield, Nev. Foreshock of following events. Depth fixed.
*12	Oct. 30	4.1	17-50-38	37°.5	117°.5	d	14	SW of Goldfield, Nev. USCGS: 37°.7 N, 118°.2 W, O = 17-50-47.4, M = 4.1, h = 20 km.
13	Oct. 30	3.8	18-18-06.7	37°.6	118°.5	20	-	W of Goldfield, Nev. Data from USCGS.
14	Oct. 30	3 3/4	19-01-45.7	37°.8	118.2	20	-	W of Goldfield, Nev. Data from USCGS.
*11	Oct. 30	4.5	19-03-09.3	37° 30'	117° 48'	d	14	SW of Goldfield, Nev. Main shock. Felt at Dyer, Nev. and Oasis, Calif. USCGS: 37°.7 N, 118°.0 W, O=19-03-12.3, M=4.4, h=20 km.
15	Oct. 30	3 1/2	19-40-30.2	38°.0	117°.7	20	-	Goldfield, Nev. Aftershock. Data from USCGS.
16	Oct. 30	4.1	23-02-59.5	37°.7	118°.1	20	-	Goldfield, Nev. Aftershock. Data from USCGS.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
17	Oct. 31	3.7	11-57-31.7	38°.2	117°.8	20	-	Goldfield, Nev. Aftershock. Data from USCGS.
15	Oct. 31	4.0	19-35-24.7	38°.0	117°.8	20	-	Goldfield, Nev. Aftershock.
15	Nov. 1	3.9	20-41-07.7	38°.0	117°.7	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
18	Nov. 2	4.4	11-38-55.7	37°.6	118°.0	32	-	Felt at Dyer, Nev. and Oasis, Calif. Data from USCGS.
19	Nov. 3	3.1	02-23-56.8	36° 46'.5	121° 19'.7	c	17	SE of Hollister.
18	Nov. 3	4.1	18-58-44.0	37°.6	118°.0	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
20	Nov. 4	3.6	11-50-32.1	37°.6	118°.2	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
21	Nov. 4	3 3/4-4	11-53-56.2	37°.5	118°.4	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
* -	Nov. 6	4.6	12-14-29.8	43°.5	126°.6	33	-	Off coast of Oregon. Data from USCGS.
22	Nov. 8	4.0	01-19-19.0	36° 00'.0	120° 00'.1	c	15	E of Avenal. USCGS: 35°.8 N, 120°.2 W, O=01-19-17.2, M=4.4, h=14 km.
23	Nov. 8	3.1	13-45-51.1	36° 20'.8	121° 19'.2	a	16	Near Paraiso.
24	Nov. 9	2.9	10-43-23.8	36° 36'.7	121° 19'.9	a	7	NE of Gonzales.
18	Nov. 12	3.8	20-07-25.4	37°.7	118°.0	20	-	Goldfield, Nev. Aftershock. Data from USCGS.
*25	Nov. 13	4.1	05-04-59.6	37° 32'	117° 12'	d	14	S of Goldfield, Nev. USCGS: 37°.6 N, 118°.0 W, O=05-05-10.8, M=4.2, h=20 km.
26	Nov. 16	5.0	02-46-41.7	37° 03'.3	121° 41'.5	c	17	Near Corralitos. Felt over central California. Aftershocks with M ≥ 2.5 are listed below. For a complete description of this sequence, see McEvilly, T.V. (1966), "The Earthquake Sequence of November 1964 near Corralitos, California", Bull. Seism. Soc. Am., 56, 755.
26	Nov. 16	2.7	02-55-40.5	37° 03'.9	121° 40'.5	c	**	Corralitos aftershock.
26	Nov. 16	2.5	05-09-13.6	37° 03'.8	121° 40'.3	c	**	Corralitos aftershock.
27	Nov. 18	2.7	01-47-34.0	35° 59'.1	121° 11'.2	a	8	SW of King City.
26	Nov. 19	3.2	20-47-40.1	37° 02'.3	121° 42'.1	c	**	Corralitos aftershock.
28	Nov. 23	2.7	04-08-13.3	37° 17'.5	121° 14'.0	a	13	Near Mt. Hamilton.
26	Nov. 23	3.5	09-05-08.0	37° 02'.4	121° 42'.9	c	**	Corralitos aftershock.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
29	Nov. 23	4.4	23-52-29.5	37°.5	117°.9	20	13	Goldfield, Nev. Aftershock. Data from USCGS.
30	Nov. 24	2.3	08-50-53.3	37° 58'.1	122° 22'.2	b	10	Felt in Richmond.
31	Nov. 25	2.8	12-49-41.8	36° 12'.6	120° 46'.9	a	15	NW of Priest.
* -	Nov. 25	4.3	23-14-11	44°.7	119°.8	33	3	Central Oregon Depth fixed.
32	Nov. 28	2.7	15-07-49.7	36° 52'.6	121° 25'.2	a	14	Near Hollister.
33	Nov. 30	3.0	20-44-48.9	36° 53'.2	121° 40'.3	b	12	SE of Watsonville.
33	Nov. 30	3.7	21-16-18.2	36° 52'.2	121° 42'.2	b	14	SE of Watsonville.
34	Dec. 1	3.7	15-28-20.9	37°.8	117°.8	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
26	Dec. 2	2.7	07-50-35.3	37° 04'.6	121° 40'.7	c	**	Corralitos aftershock.
11	Dec. 2	3.9	09-17-50.8	37°.5	117°.9	33	-	Goldfield, Nev. Aftershock. Data from USCGS.
35	Dec. 3	2.7	07-20-45.9	37° 03'.8	121° 29'.8	b	15	Near Gilroy.
36	Dec. 4	3.0	04-31-59.2	38° 34'	120° 25'	c	3	SW of Lake Tahoe.
*37	Dec. 5	2.6	13-55-57.5	36° 01'.0	121° 04'.8	2	12	W of San Ardo.
52$	Dec. 7	3.2	11-29-43	40°.5	124°.0	-	-	Off Cape Mendocino.
*38$	Dec. 7	3.1	14-15-06	40°.3	124°.8	33	4	Cape Mendocino. Depth fixed.
39	Dec. 8	2.9	15-49-16.2	36° 58'.4	121° 29'.8	c	14	SE of Gilroy.
*40$	Dec. 9	3.5	07-36-33	40°.8	124°.0	33	4	SE of Arcata.
*41	Dec. 10	3.1	10-52-40	39°.7	120°.4	33	3	S of Honey Lake.
*42	Dec. 11	3.1	04-23-48	40°.5	119°.5	33	12	S of Gerlach, Nev. Depth fixed.
*53$	Dec. 12	3.7	21-17-25	40°.2	124°.3	33	19	Off Cape Mendocino. USCGS: 40°.3 N, 125°.1 W, O=21-17-21.0, h=33 km, Mag. = 5.1.
*43$	Dec. 16	3.6	05-24-47	40°.4	124°.4	33	5	Cape Mendocino.
*54$	Dec. 17	3.8	11-25-40	41°.3	126°.1	33	14	Off N California coast. Depth fixed. USCGS: 40°.3 N, 127°.3 W, O=11-25-32, Mag.= 4.2.

Map No.	Date 1964	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
55[$]	Dec. 17	4.6	12-11-52	41°.9	126°.0	-	-	Off N Calif. coast.
44	Dec. 22	2.5	19-56-09.8	36° 49'.8	121° 38'.0	a	10	W of San Juan Bautista.
45	Dec. 23	2.8	23-13-53.8	36° 41'.4	119° 53'.3	c	5	W of Fresno.
46	Dec. 24	2.6	03-11-56.7	37° 46'.0	122° 07'.4	b	7	Near San Leandro. Felt in Oakland and Berkeley.
46	Dec. 24	2.9	03-13-14.3	37° 43'.2	122° 11'.6	a	6	Near San Leandro. Felt in Oakland and Berkeley.
*47	Dec. 25	2.6	11-21-16.2	35° 57'.9	121° 10'.7	2	5	N of Lake Nacimiento.
48	Dec. 27	2.7	12-45-45.2	36° 41'.2	121° 22'.3	a	11	NE of Gonzales.
49	Dec. 27	2.6	18-58-59.4	36° 27'.8	121° 03'.6	b	7	SW of Llanada.
50	Dec. 29	3.1	15-48-40	38°.8	122°.3	a	5	S of Rumsey.
51	Dec. 30	2.6	16-35-49.5	36° 47'.0	121° 33'.0	a	10	S of San Juan Bautista.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
OCTOBER 1 TO DECEMBER 31, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
SHS
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
ORV
CLS
MARYSVILLE
PRC
SACRAMENTO
TRUCKEE
REN
LOVELOCK
SFB
BKS
BRK
CNC
PLACERVILLE
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
PAC
LIVERMORE
JAS
SONORA
AUSTIN
MHC
SCC
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
VIT (AIN)
LLA
KING CITY
FRE
PRI
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE
LONE PINE
55
54
38
43
40
FER
53
52
6
10
50
41
42
36
3
5
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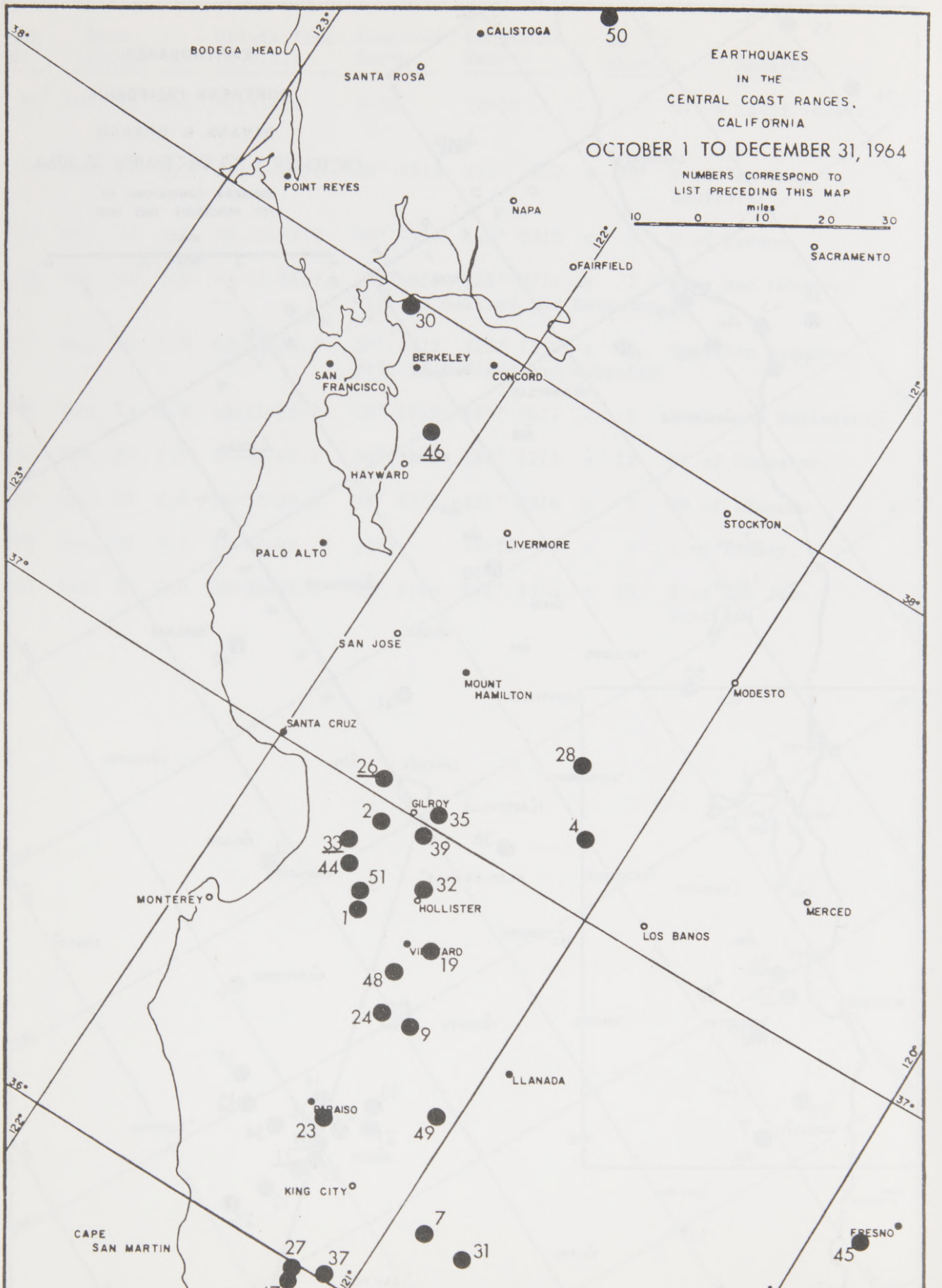
1
29
12
25

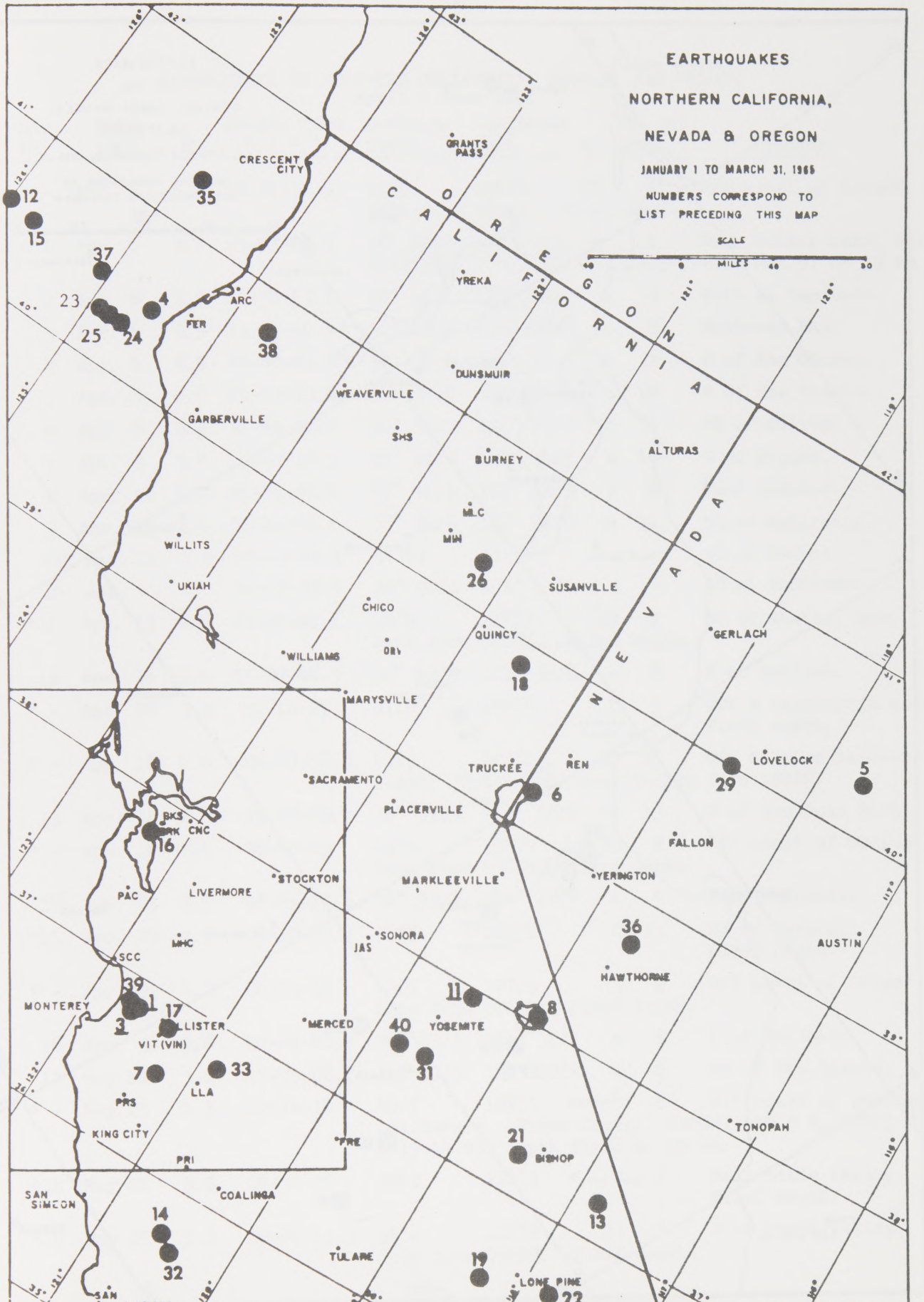

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
OCTOBER 1 TO DECEMBER 31, 1964
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
CALISTOGA
BODEGA HEAD
SANTA ROSA
POINT REYES
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
SAN FRANCISCO
CONCORD
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
SANTA CRUZ
GILROY
HOLLISTER
MONTEREY
MERCED
LOS BANOS
LLANADA
KING CITY
CAPE SAN MARTIN
FRESNO
50
30
46
26
28
2
35
4
39
33
44
51
32
1
19
48
24
9
23
49
7
27
37
31
45
123°
122°
38°
37°
36°
121°
120°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January - March 1965

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Jan. 1	3.5	09-56-51.3	36° 50.5	121° 39.3	a	14	SE of Watsonville. Felt.
1	Jan. 1	2.6	09-58-59.7	36° 49.3	121° 39.6	b	7	Aftershock of 1.
2	Jan. 1	2.7	10-47-36.5	36° 51.5	121° 37.8	b	12	Aftershock of 1.
3	Jan. 1	3.1	12-16-32.0	36° 49.6	121° 41.8	a	13	Aftershock of 1.
4	Jan. 1	3.6	19-59-36.6	40° 28.5	124° 33.9	a	14	Off Cape Mendocino. USCGS: 40°.3 N, 124°.6 W; 0=19-59-38.2; h about 20 km.
1	Jan. 2	2.8	00-50-01.2	36° 50.8	121° 38.5	b	11	Aftershock of 1.
5	Jan. 4	3.9	04-06-45.3	40° 17.5	117° 41.1	a	9	NE of Lovelock, Nev.
6	Jan. 5	3.5	07-32-30.7	39° 13.9	119° 55.2	a	12	NE shore of Lake Tahoe.
3	Jan. 7	2.7	02-59-37.7	36° 49.3	121° 42.7	a	12	Aftershock of 1.
2	Jan. 7	2.9	03-00-03.9	36° 50.6	121° 37.7	a	7	Aftershock of 1.
7	Jan. 10	3.3	02-00-09.5	36° 34.7	121° 16.1	b	14	SE of Vineyard.
8	Jan. 13	3.7	03-50-58.9	38° 02.5	118° 59.1	d	16	Near Mono Lake. Felt at Leevining.
9	Jan. 13	2.6	04-20-48.2	36° 27.0	120° 34.7	a	9	NE of Priest.
10	Jan. 14	2.9	10-09-32.5	36° 30.9	120° 47.3	b	12	SE of Llanada.
11	Jan. 19	3.1	00-38-26.6	37° 56.0	119° 27.5	a	14	NE of Yosemite Valley.
*12	Jan. 22	4.1	00-45-40	40°.5	126°.0	0	3	Off Cape Mendocino. USCGS: 41°.2 N, 129°.0 W, 0=00-45-12; h about 47 km. Magnitude 4.9 (CGS).
13	Jan. 22	3.5	10-24-37.3	37° 12.7	117° 50.5	b	9	SE of Bishop, Calif.
14	Jan. 26	3.0	08-36-30.7	35° 43.3	120° 32.7	a	12	SE of Priest.
CIT	Jan. 26	3.1	08-38-16.4	36°.04	120°.26	c		Near Coalinga.
*15	Jan. 26	3.9	21-11-53	40°.5	125°.7	0	4	Off Cape Mendocino.
16	Jan. 29	3.2	01-27-20.6	37° 47.0	122° 16.8	c	14	Felt in Oakland area.
17	Jan. 29	3.3	01-40-51.0	36° 50.1	121° 21.9	a	14	E of Hollister.
1	Jan. 29	3.0	12-09-45.0	36° 51.1	121° 39.3	a	14	Aftershock of 1.
18	Feb. 7	3.5	06-53-32.2	39° 50.5	120° 36.6	a	11	E of Quincy.
*19	Feb. 8	3.0	15-54-32	36° 30'	118° 20'	0	6	W of Lone Pine. Depth fixed at surface.
20	Feb. 10	2.8	10-00-04.3	36° 48.8	121° 37.2	a	14	W of San Juan Bautista.
21	Feb. 11	3.1	01-31-40.7	37° 16.6	118° 33.3	b	7	SW of Bishop.
22	Feb. 11	3.5	01-35-59.8	36° 37.1	117° 48.5	a	11	E of Lone Pine.

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
23	Feb. 12	4.5	10-50-18	40°.3	124°.9	0	16	Off Cape Mendocino. USCGS: 40°.3 N, 124°.9 W; 0=10-50-19.7; depth fixed at 33 km. Magnitude 4.4 (CGS).
11	Feb. 12	3.1	15-19-02.7	37° 57'.2	119° 27'.5	a	11	NE of Yosemite.
*24	Feb. 12	3.7	20-50-44	40°.3	124°.7	0	15	Off Cape Mendocino. USCGS: 40°.3 N, 124°.7 W; 0=20-50-46; h about 33 km. Magnitude 4.9 (CGS).
*25	Feb. 12	3.3	23-35-30	40°.3	124°.8	0	3	Off Cape Mendocino.
26	Feb. 13	4.3	21-53-46.4	40° 17'.3	121° 13'.7	a	10	Near Lake Almanor.
27	Feb. 14	2.8	19-45-31.7	36° 30'.7	121° 08'.8	a	11	SW of Llanada.
28	Feb. 17	2.7	18-54-13.3	36° 33'.0	121° 12'.8	a	11	SW of Llanada.
29	Feb. 19	3.2	12-01-30.0	40° 00'.1	118° 39'.0	b	6	Near Lovelock, Nev.
30	Feb. 19	2.5	13-12-06.0	37° 00'.1	121° 43'.1	b	11	N of Watsonville.
31	Feb. 21	3.1	17-22-07.2	37° 28'.1	119° 32'.6	a	12	S of Yosemite Park.
32	Feb. 21	3.1	18-39-18.3	35° 39'.9	120° 26'.1	a	12	E of Paso Robles.
33	Feb. 22	3.8	17-57-11.8	36° 46'.0	120° 53'.0	b	14	N of Llanada.
34	Feb. 26	2.5	17-24-58.5	37° 15'.3	121° 36'.3	a	10	S of Mt. Hamilton.
*35	Feb. 27	3.4	19-58-02	41°.3	124°.8	0	4	Off Cape Mendocino. Depth fixed at surface.
36	Mar. 8	4.1	22-50-55.9	38° 43'.9	118° 37'.2	b	13	Felt at Hawthorne, Nev. USCGS: 38°.5 N, 118°.7 W, 0=22-50-58; h about 33 km.
37	Mar. 10	3.5	02-52-10.9	40° 29'.9	125° 01'.9	a	12	Off Cape Mendocino. USCGS: 40°.6 N, 125°.6 W; 0=02-52-08; h about 33 km.
*38	Mar. 16	3.2	15-42-59	40°.8	123°.7	0	6	East of Arcata.
* -	Mar. 23	4.4	08-40-49	40°.7	127°.5	0	6	Off Cape Mendocino. USCGS: 40°.5 N, 127°.9 W; 0=08-40-46; depth fixed at 33 km. Magnitude 4.4 (CGS).
39	Mar. 29	2.8	08-42-59.6	36° 50'.4	121° 40'.6	a	10	SE of Watsonville.
40	Mar. 30	3.0	09-45-14.4	37° 28'.2	119° 47'.0	a	8	S of Yosemite.
* -	Mar. 30	4.0	17-45-48	38°.7	115°.5	33	7	Eastern Nevada. Epicentral coordinates and origin time from USCGS.
CIT	Mar. 28	3.5	02-32-21	36°.2	120°.4			Near Coalinga.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
WILLITS
UKIAH
CHICO
QUINCY
SUSANVILLE
GERLACH
WILLIAMS
MARYSVILLE
SACRAMENTO
PLACERVILLE
TRUCKEE
RENO
LOVELOCK
FALLON
YERINGTON
STOCKTON
MARKLEEVILLE
LIVERMORE
SONORA
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
VIT (VIN)
MERCED
YOSEMITE
KING CITY
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN
ARC
FER
SHS
MLC
MIN
ORI
BKS
CNC
PAC
MHC
SCC
JAS
PRS
PRI
FRE
LLA
12
15
35
37
23
25
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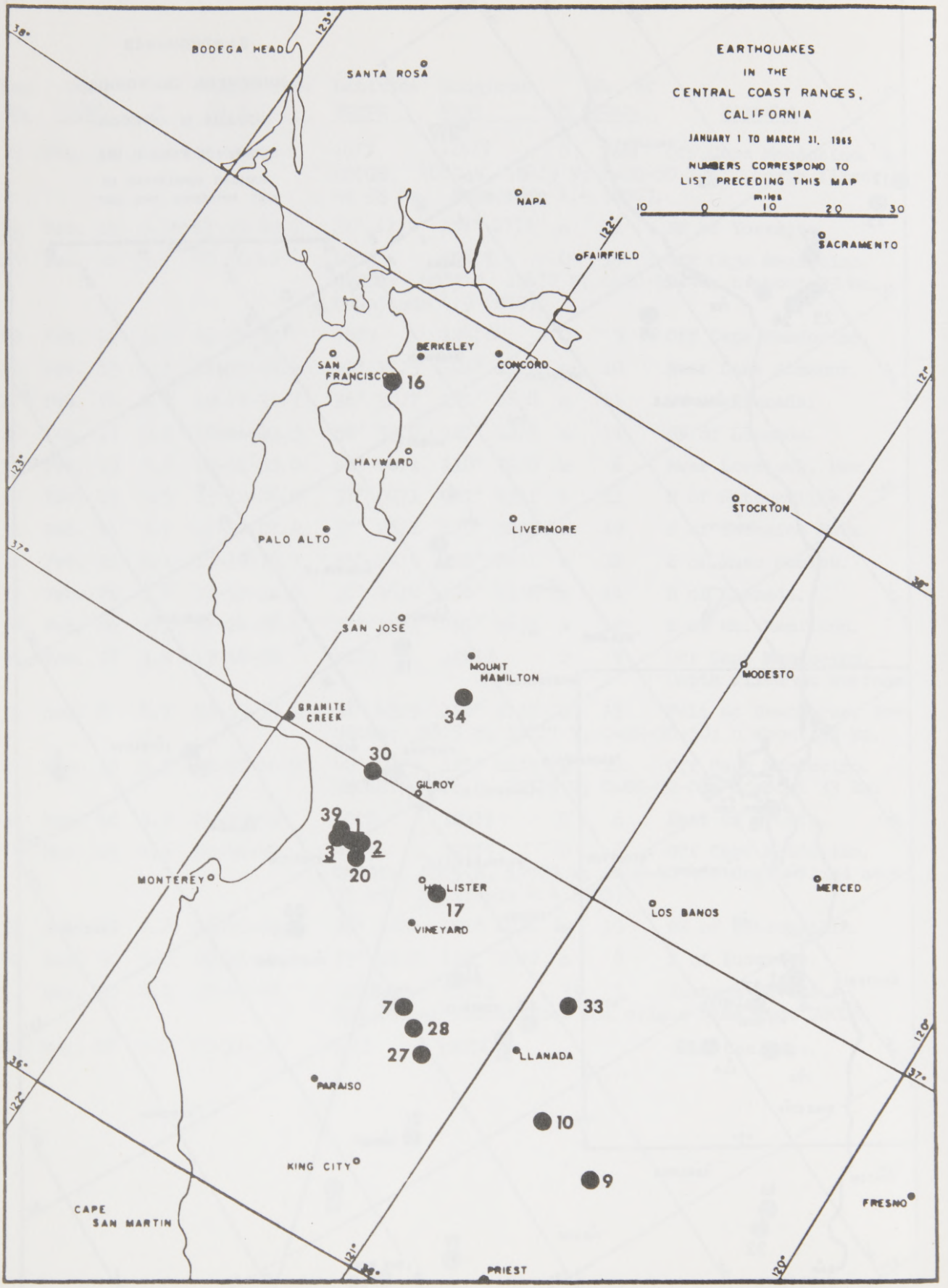
22

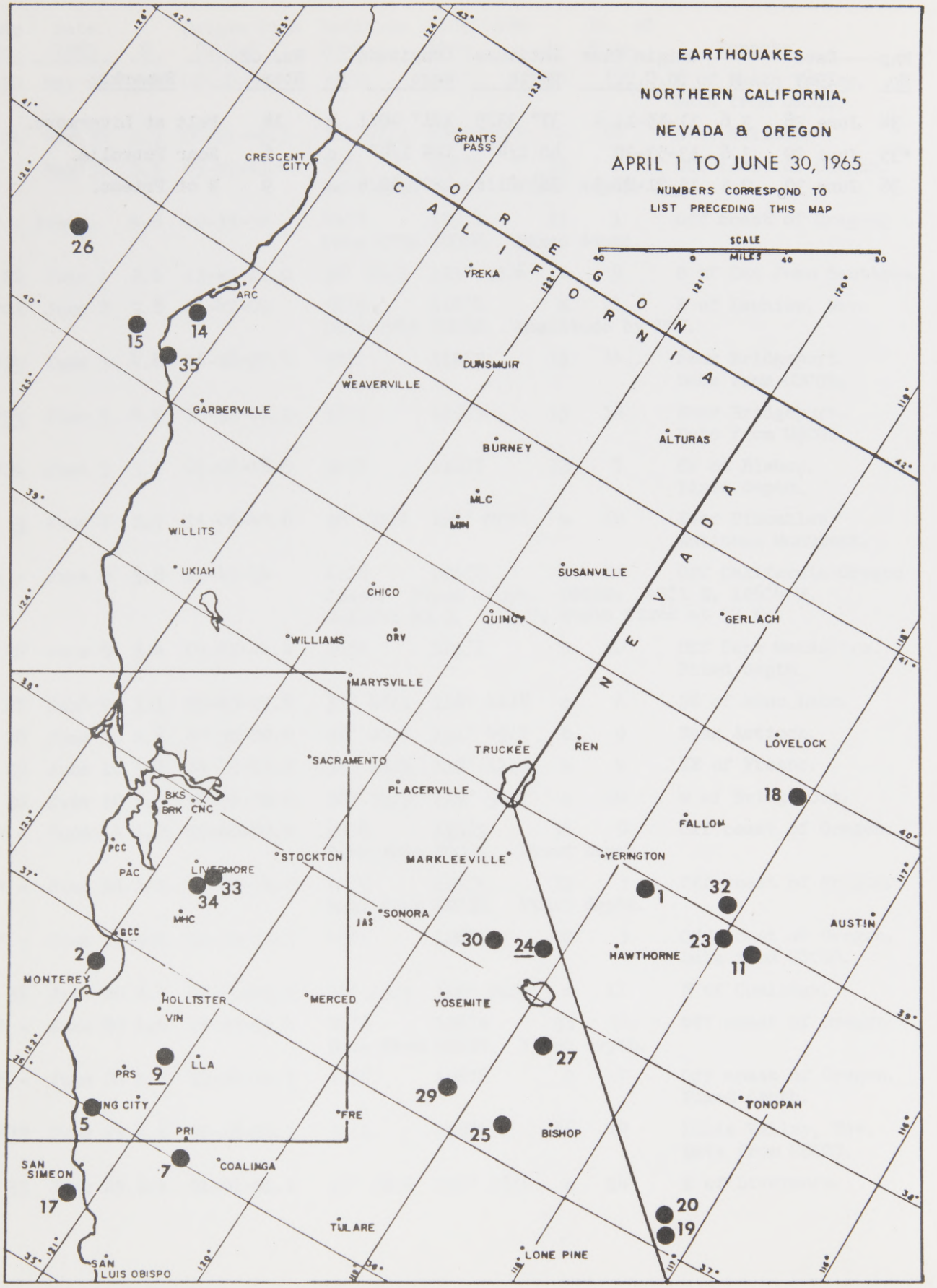

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JANUARY 1 TO MARCH 31, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
BODEGA HEAD
SANTA ROSA
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
SAN FRANCISCO
CONCORD
16
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
GRANITE CREEK
34
30
GILROY
39
1
2
3
20
MONTEREY
HOLLISTER
17
VINEYARD
MERCED
LOS BANOS
7
28
27
33
LLANADA
PARAISO
10
KING CITY
9
CAPE SAN MARTIN
FRESNO
PRIEST
123°
122°
121°
120°
38°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
April - June 1965

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* -	Apr. 5	5.1	09-27-32.5	43°.9	127°.8	33	4	Off coast of Oregon. Data from USCGS. Fixed depth.
1	Apr. 6	3.7	15-57-05.5	38° 56'.7	118° 42'.0	c	9	Near Walker Lake, Nev. USCGS: 39°.0 N, 118°.8 W; 0=15-57-05; M=3.9; h= 33 km.
2	Apr. 6	3.3	10-31-59.1	36° 48'	121° 58'	a	8	Felt at Capitola.
3	Apr. 6	2.5	11-23-10.4	36° 49'.6	122° 06'.7	a	8	Monterey Bay.
4	Apr. 6	2.5	20-49-24.4	35° 57'.0	121° 27'.3	a	7	N of San Simeon.
5	Apr. 8	3.0	01-05-40.6	36° 01'.8	121° 24'.0	a	10	N of San Simeon.
6	Apr. 8	2.8	21-41-12.0	36° 57'.9	121° 27'.6	b	11	SE of Gilroy.
7	Apr. 9	3.0	12-50-19.3	36° 01'.9	120° 38'.7	a	10	S of Priest.
8	Apr. 11	2.7	01-19-07.4	37° 48'.5	122° 12'.5	b	8	Near Oakland.
9	Apr. 11	3.5	05-41-56.6	36° 30'.6	121° 09'.0	a	11	SE of Hollister.
CIT	Apr. 12	3.0	08-41-49.5	37°.07	117°.9	c		SE of Bishop.
10	Apr. 13	2.7	03-58-52.4	36° 30'.1	121° 14'.1	a	7	SE of Hollister.
*11	Apr. 13	4.6	13-14-22.1	38°.9	117°.7	33	11	SW of Austin, Nev. Data from USCGS. Fixed depth.
12	Apr. 14	2.5	23-00-44.3	36° 42'.9	121° 36'.8	a	6	E of Salinas.
* -	Apr. 18	3.3	01-16-27	41°.9	126°.6	0	5	Off N California coast. Fixed depth.
* -	Apr. 18	4.9	06-33-58.8	41°.5	127°.1	20	15	Off California-Oregon Coast. Epicentral coordinates from USCGS.
13	Apr. 18	2.8	15-45-09.3	36° 53'.5	121° 33'.6	a	13	N of San Juan Bautista.
* -	Apr. 18	4.4	20-49-25	43°.9	127°.2	33	2	Off coast of Oregon. Data from USCGS. Fixed depth.
14	Apr. 25	3.1	08-25-57.6	40° 33'.9	124° 14'.5	c	4	Near Ferndale.
*15	Apr. 27	3.6	05-19-12.4	40°.3	124°.6	0	13	SW of Ferndale. Fixed depth.
* -	Apr. 29	4.2	04-29-16	44°.5	127°.9	33	2	Off coast of Oregon. Data from USCGS. Fixed depth.
16	Apr. 30	2.6	22-08-08.3	36° 43'.3	121° 37'.7	a	7	N of Salinas.
17	May 12	3.0	17-55-08.7	35° 29'.5	121° 10'.2	c	6	SW of San Simeon.
* -	May 13	4.3	19-14-16	40'.7	127°.1	0	6	Off coast of northern California. Fixed depth. USCGS: 40°.3 N, 126°.7 W; 0=19-14-23; depth fixed at 33 km.
*18	May 21	3.2	06-51-35	39°.9	118°.1	0	6	Near Dixie Valley, Nev. Fixed depth.
*19	May 25	3.8	00-48-13.3	37°.1	117°.2	33	6	N of Death Valley. Data from USCGS. Fixed depth.

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
*20	May 28	3.8	08-18-51	37°.2	117°.3	15	9	N of Death Valley. Data from USCGS.
21	May 30	2.5	00-21-48.1	36° 47'.3	121° 36'.7	a	10	N of Salinas.
* -	May 31	5.5	05-07-43.4	44°.1	128°.8	33	7	Off coast of Oregon. Data from USCGS. Fixed depth.
* -	June 1	4.8	12-33-38	44°.8	129°.8	33	1	Off coast of Oregon. Data from USCGS. Fixed depth.
22	June 1	2.6	13-45-21.0	36° 48'.3	121° 33'.6	a	9	S of San Juan Bautista.
*23	June 2	3.8	20-47-04	38°.9	118°.0	a	11	E of Rawhide, Nev. Data from USCGS. Magnitude by BKS.
*24	June 3	4.8	16-26-27.4	38°.3	119°.2	15	14	Near Bridgeport. Data from USCGS.
*24	June 3	4.9	16-31-02.2	38°.3	119°.3	15	14	Near Bridgeport. Data from USCGS.
*25	June 5	3.2	01-06-18.6	37°.2	118°.7	33	7	SW of Bishop. Fixed depth.
9	June 7	2.5	15-06-47.6	36° 30'.1	121° 07'.8	a	10	Near Pinnacles National Monument.
* -	June 8	3.8	12-41-34	41°.8	126°.8	0	10	Off California-Oregon Coast. Fixed depth. USCGS: 42°.1 N, 126°.4 W, 0=12-41-43.0. M=4.7; depth fixed at 33 km.
26	June 9	3.4	03-57-44.4	40°.4	125°.3	0	10	Off Cape Mendocino. Fixed depth.
27	June 9	3.1	22-49-17.8	37° 46'.1	118° 44'.8	c	6	SE of Mono Lake.
28	June 10	2.6	02-58-00.0	38° 00'.7	121° 49'.7	b	9	Near Antioch.
29	June 10	3.2	14-33-17.9	37° 15'.1	119° 11'.5	a	9	NE of Fresno.
30	June 10	3.3	17-36-29.0	38° 10'.9	119° 32'.7	a	10	W of Bridgeport.
* -	June 14	5.2	09-40-09.5	44'.6	129°.5	33	9	Off coast of Oregon. Data from USCGS. Fixed depth.
* -	June 14	5.0	13-05-54.0	44°.5	129°.4	33	3	Off coast of Oregon. Data from USCGS. Fixed depth.
* -	June 17	4.5	11-22-52.3	43°.1	126°.1	20	3	Off coast of Oregon. Data from USCGS.
31	June 20	2.7	02-56-43.5	36° 19'.5	120° 21'.9	c	11	N of Coalinga.
* -	June 20	4.6	17-23-55.4	42°.8	126°.4	33	11	Off coast of Oregon. Data from USCGS. Fixed depth.
* -	June 20	4.7	18-04-30.3	42°.8	126°.6	0	17	Off coast of Oregon. Fixed depth.
*32	June 25	4.4	00-18-56.1	39°.1	118°.1	16	14	Dixie Valley, Nev. Data from USCGS.
33	June 25	3.4	01-01-01.1	37° 38'.6	121° 38'.4	a	14	E of Livermore.

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
34	June 28	3.6	11-15-11.4	37° 33.'5	121° 40.'1	b	14	Felt at Livermore.
*35	June 29	3.6	13-53-30	40 1/4°	124 1/4°	c	6	Near Petrolia.
36	June 30	2.5	15-21-27.7	36° 21.'2	120° 42.'4	a	9	N of Priest.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
WEAVERVILLE
DUNSMUIR
GARBERVILLE
BURNEY
ALTURAS
MLC
MDN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
ORV
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
BKS
BRK
CNC
PCC
PAC
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
LIVERMORE
MHC
JAS
SONORA
GCC
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
VIN
MERCED
YOSEMITE
PRS
LLA
NG CITY
FRE
PRI
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO
26
15
14
35
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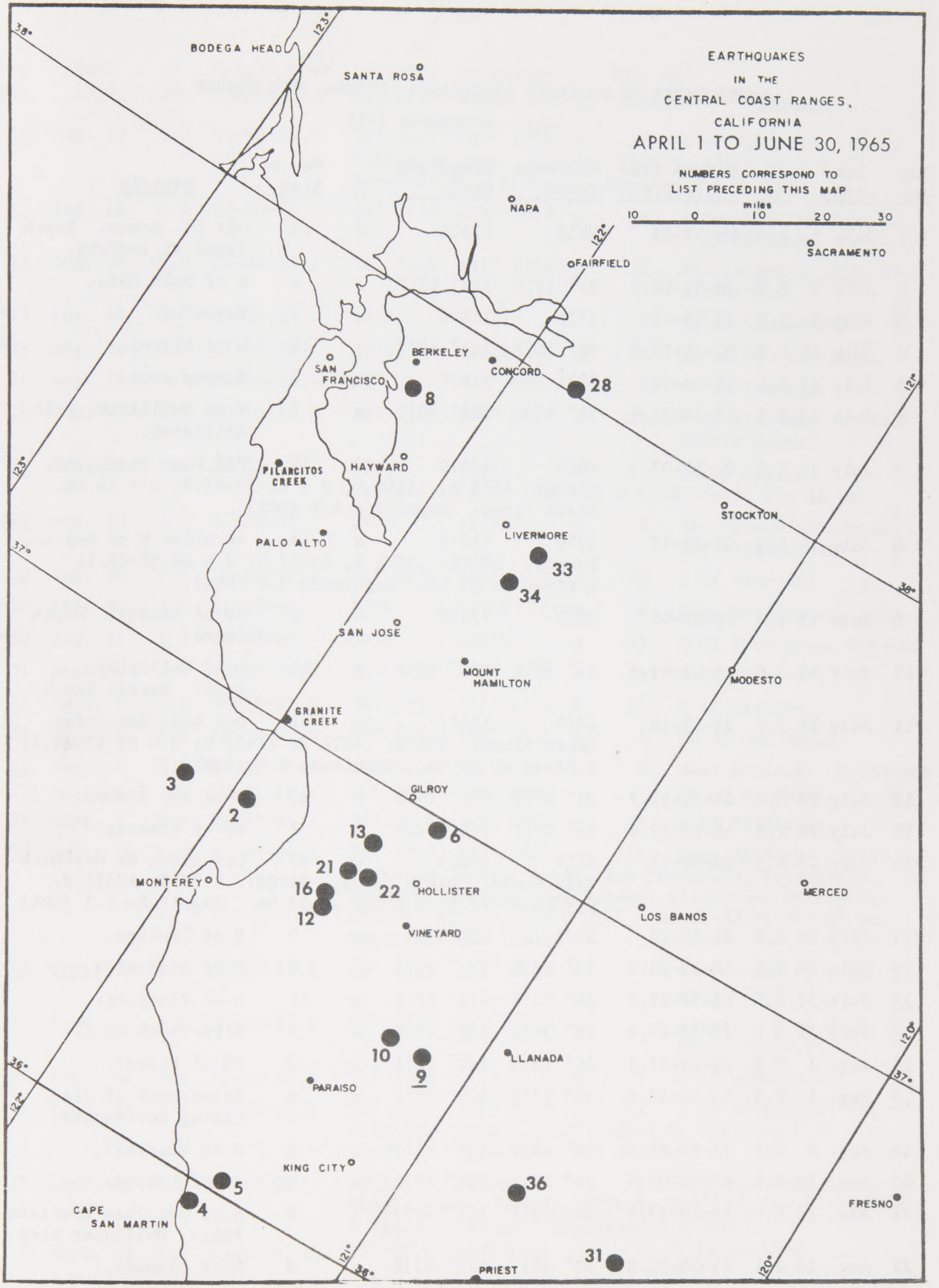

EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
APRIL 1 TO JUNE 30, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
BERKELEY
SAN FRANCISCO
CONCORD
PILARCITOS CREEK
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
GRANITE CREEK
GILROY
MONTEREY
HOLLISTER
VINEYARD
LOS BANOS
MERCED
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
PRIEST
38°
123°
122°
121°
37°
36°
120°
39°
28
8
33
34
3
2
13
6
21
16
22
12
10
9
5
4
36
31

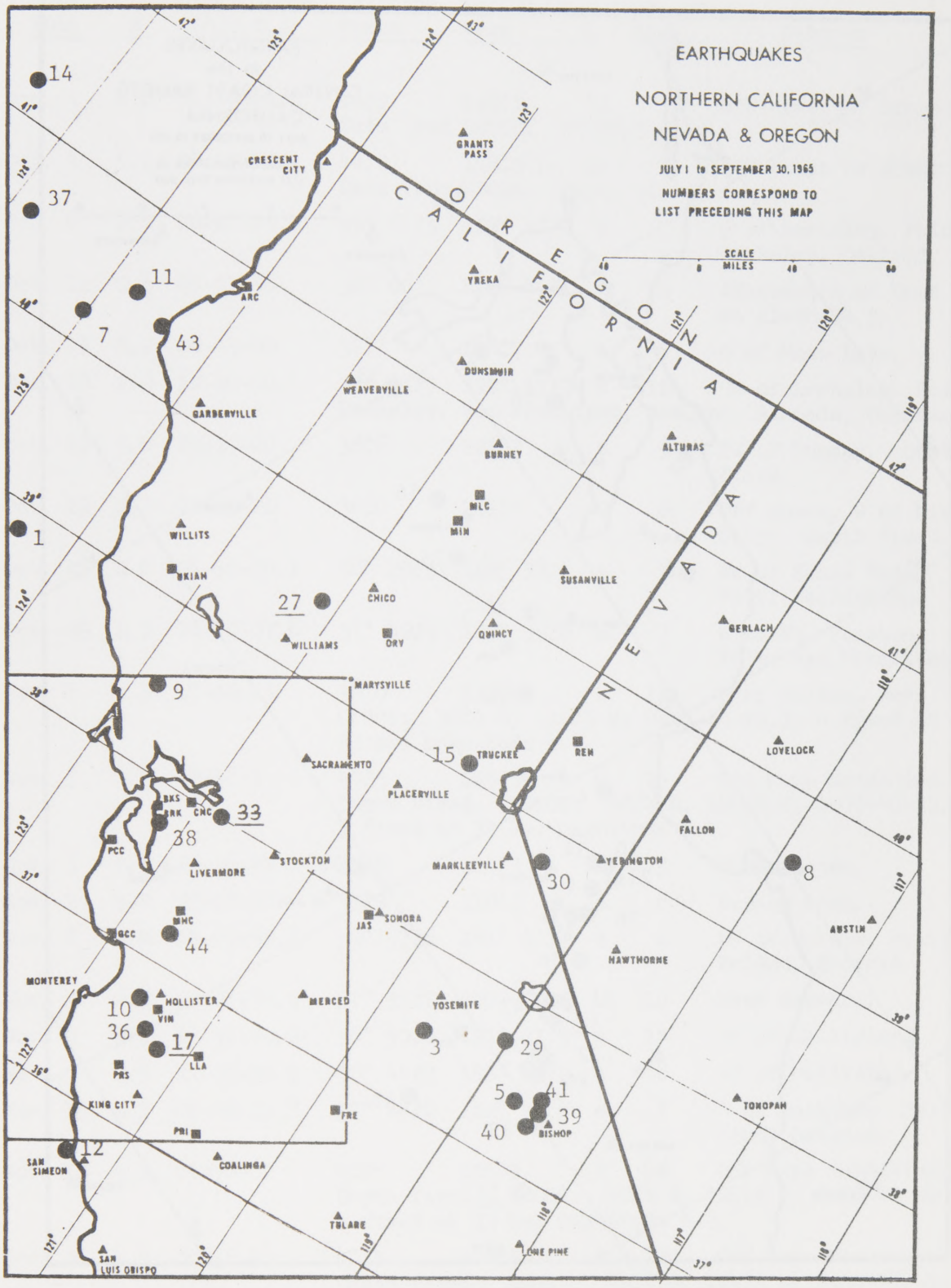
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - September 1965

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* 1	July 5	3.3	06-37-03	38°.8	124°.4	0	13	Off Pt. Arena. Depth fixed at surface.
2	July 9	2.5	08-51-08.5	37° 17'.6	122° 13'.5	a	8	S of Palo Alto.
* 3	July 9	3.2	13-16-43	37°.5	119°.6	a	5	Yosemite.
4	July 11	2.9	02-41-28.6	36° 56'.7	121° 40'.7	a	12	W of Gilroy.
* 5	July 12	3.1	16-49-42	37°.4	118°.7	a	7	Bishop area.
6	July 13	2.8	15-35-31.4	36° 45'.5	121° 30'.0	a	7	W of Hollister; felt Hollister.
* 7	July 13	4.0	21-57-07	40°.2	125°.0	0	10	Off Cape Mendocino. USCGS: 40°.3 N, 124°.8 W; 0 = 21-57-07.9; h = 16 km. Depth fixed. Magnitude 4.8 (CGS).
* 8	July 14	4.3	08-26-43	39°.6	117°.8	a	14	40 miles W of Austin, Nevada. USCGS: 39°.1 N, 117°.7 W; 0 = 08-26-45.1; h fixed at 33 km. Magnitude 3.9 (CGS).
* 9	July 15	2.8	02-57-08	38°.5	122°.8	0	8	SW of Rumsey. Depth fixed.
10	July 18	3.6	19-03-43.4	36° 47'.4	121° 33'.9	a	15	W of Hollister. Felt: Harris Ranch.
*11	July 19	3.2	21-45-10	40°.5	124°.7	0	11	Off Cape Mendocino. Depth fixed. USCGS: 40°.4 N, 124°.3 W; 0 = 21-45-14.4; h fixed at 33 km. Magnitude 4.4 (CGS).
12	July 23	3.4	05-31-52.7	35° 42'.9	121° 14'.2	a	13	N of San Simeon.
13	July 24	2.5	15-25-57.4	36° 21'.5	120° 59'.0	b	7	SW of Llanada.
*14	July 25	4.5	08-44-25	41°.2	126°.4	0	13	Off coast of Northern California. Depth fixed. USCGS: 41°.7 N, 126°.9 W; 0 = 08-44-22.5; h fixed at 33 km. Magnitude 5.3 (CGS).
*15	July 25	2.9	21-55-29	39°.1	120°.4	a	9	W of Truckee.
16	July 30	2.9	18-13-30.0	37° 43'.8	121° 45'.5	d	8	N of Livermore.
17	July 31	3.5	06-54-27.5	36° 33'.1	121° 12'.0	b	14	S of Vineyard.
17	July 31	3.1	18-33-45.4	36° 34'.7	121° 13'.0	a	7	Aftershock of 17.
18	Aug. 1	2.5	06-47-27.3	36° 13'.5	120° 51'.4	a	7	NW of Priest.
18	Aug. 1	2.5	13-26-32.9	36° 13'.9	120° 50'.7	a	6	Aftershock of preceding earthquake.
19	Aug. 8	2.5	16-29-09.4	36° 43'.7	121° 25'.3	a	9	W of Vineyard.
20	Aug. 13	2.6	07-36-08.4	36° 27'.7	121° 04'.5	a	9	SW of Llanada.
21	Aug. 13	2.8	16-19-27.5	36° 45'.2	121° 34'.3	b	5	S of San Juan Bautista. Felt: Hollister area.
22	Aug. 13	2.4	21-28-51.8	36° 28'.7	121° 07'.8	a	8	W of Llanada.

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
17	Aug. 15	3.2	23-06-53.8	36° 33!7	121° 12!6	b	12	S of Vineyard. Felt: Hollister area. USCGS: 36°6 N, 121°2 W; 0 = 23-06-52.5; h = 16 km. Magnitude 4.2 (CGS).
17	Aug. 16	2.6	01-13-46.2	36° 34!0	121° 12!2	a	6	Aftershock of Aug. 15 @ 23-06-53.8.
17	Aug. 16	2.7	15-35-12.1	36° 34!2	121° 11!8	a	8	Aftershock of Aug. 15 23-06-53.8.
*23	Aug. 19	2.5	11-04-05	37°6	121°7	a	7	SE of Livermore.
*24	Aug. 21	2.7	12-32-26	37°4	121°8	a	12	NW of Mt. Hamilton.
25	Aug. 21	2.5	20-09-35.4	36° 27!7	121° 04!2	a	8	SW of Llanada.
26	Aug. 23	2.6	03-50-12.8	36° 43!1	121° 26!4	a	11	W of Vineyard. Felt: Harris Ranch.
*27	Aug. 29	3.6	18-25-17	39°5	122°1	d	13	SE of Orland. USCGS: 39°7 N, 122°0 W; 0 = 18-25-15; h = 16 km.
*27	Aug. 29	3.2	21-28-50	39°5	122°1	d	5	Aftershock of preceding earthquake.
28	Aug. 30	2.8	14-01-08.1	36° 34!6	121° 13!1	a	13	S of Vineyard.
*29	Aug. 30	3.2	20-15-38	37°8	119°0	a	8	Mono Lake area.
*30	Aug. 31	3.0	04-39-47	38°8	119°5	a	13	W of Yerington, Nevada.
31	Sept. 2	2.8	08-02-37.8	36° 34!0	121° 14!8	b	14	S of Vineyard.
28	Sept. 2	2.9	08-16-21.0	36° 33!8	121° 13!1	b	14	W of Llanada.
32	Sept. 3	2.6	18-39-38.6	37° 04!7	120° 58!1	b	5	NW of Los Banos.
33	Sept. 6	2.6	08-38-44.7	38° 00!4	121° 49!7	c	8	Near Antioch. Foreshock.
CIT	Sept. 6	3.4	18-00-57.8	35° 57!8	120° 03!3			SE of Coalinga.
34	Sept. 7	2.8	01-29-31.2	36° 48!6	121° 33!2	c	9	W of Hollister.
33	Sept. 10	4.9	21-28-34.3	38° 00!6	121° 49!4	c	16	Near Antioch. Felt: Berkeley, Walnut Creek, San Francisco, Sacramento, Fremont, Concord, San Rafael, Livermore, Pittsburg. USCGS: 37°9 N, 122°0 W; 0 = 21-28-33.5; h = 16 km. Magnitude 4.8 (CGS).
33	Sept. 10	2.6	21-38-11.3	38° 00!3	121° 49!9	c		Aftershock of Sept. 10 at 21-28-34.3.
33	Sept. 11	2.8	00-08-33.4	37° 59!8	121° 50!3	b		Aftershock of Sept. 10 at 21-28-34.3.
35	Sept. 12	2.5	08-50-05.5	36° 29!8	121° 07!3	a	7	W of Llanada.
36	Sept. 14	4.0	09-09-24.2	36° 37!7	121° 21!6	a	17	S of Vineyard. Felt: Hollister area. USCGS: 36°6 N, 121°5 W; 0 = 09-09-23. Magnitude 4.3 (CGS).
37	Sept. 16	5.0	04-10-08	40°5	125°8	0	7	Off Cape Mendocino. Depth fixed. USCGS: 40°4 N, 125°7 W; 0 = 04-10-22.6; h fixed at 33 km. Magnitude 5.6 (CGS).
CIT	Sept. 19	4.8	15-42-07.8	35° 59!2	120° 02!3			V at Cholame.

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
38	Sept. 20	3.5	01-15-47.5	37° 47!6	122° 11!1	a	15	S of Berkeley. Felt: East Bay region.
*39	Sept. 22	4.3	21-49-26	37°.4	118°.5	a	15	Bishop area. USCGS: 37°.4 N, 118°.6 W; 0 = 21-49-25.8; h = 16 km.
*40	Sept. 22	3.5	23-56-45	37°.3	118°.5	a	5	Bishop area.
*41	Sept. 23	3.0	08-57-15	37°.5	118°.5	a	4	Bishop area.
42	Sept. 25	2.8	09-51-13.4	36° 34!1	121° 12!0	a	6	W of Llanada.
*43	Sept. 26	3.7	15-47-41	40°.4	124°.4	0	8	Off Cape Mendocino. Depth fixed. USCGS: 40°.5 N, 124°.6 W; 0 = 15-47-42; h fixed at 33 km. Magnitude 4.3 (CGS).
44	Sept. 27	3.1	13-32-59.6	37° 15!1	121° 38!8	a	8	SW of Mt. Hamilton.
45	Sept. 30	2.6	19-09-41.2	36° 33!4	120° 43!9	b	9	SE of Llanada.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 1 to SEPTEMBER 30, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
WILLIAMS
ORV
QUINCY
GERLACH
MARYSVILLE
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
BKS
RRK
CNC
PCC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
MHC
JAS
SONORA
GCC
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
VIN
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
PBI
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO
14
37
11
7
43
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33
38
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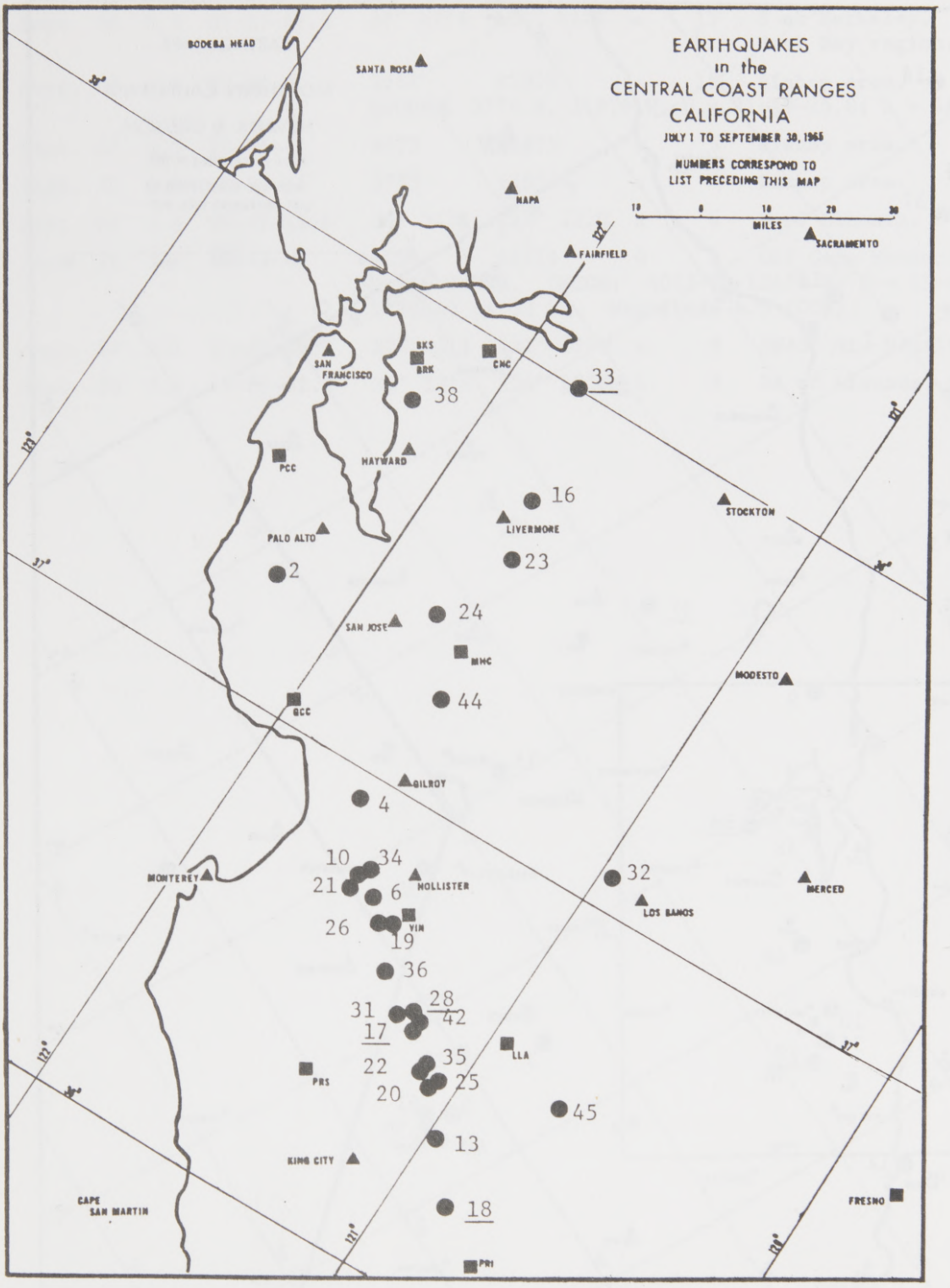
EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JULY 1 TO SEPTEMBER 30, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
VIN
LOS BANOS
MERCED
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
PRI
33
38
16
23
2
24
44
4
10
34
21
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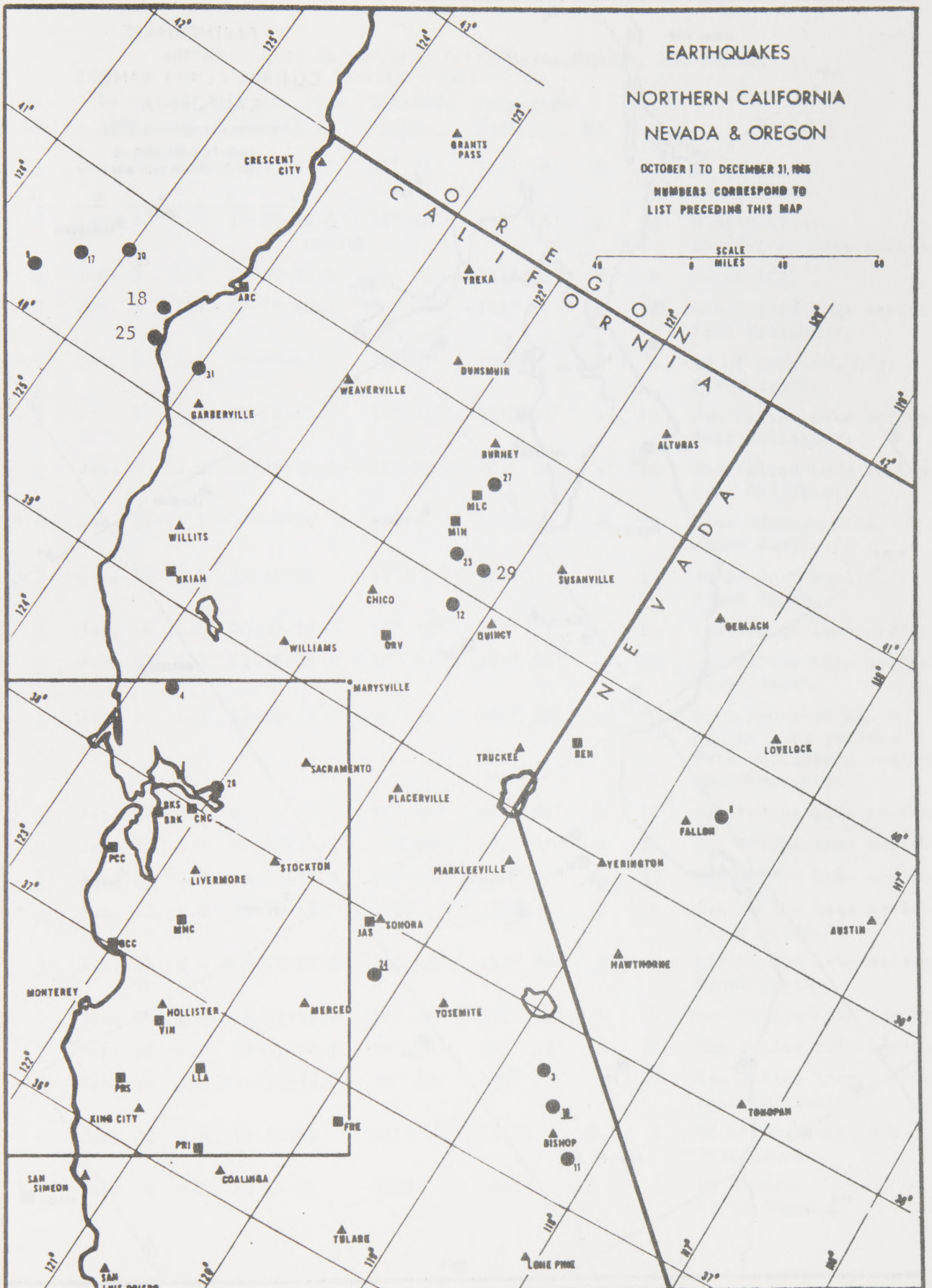
18

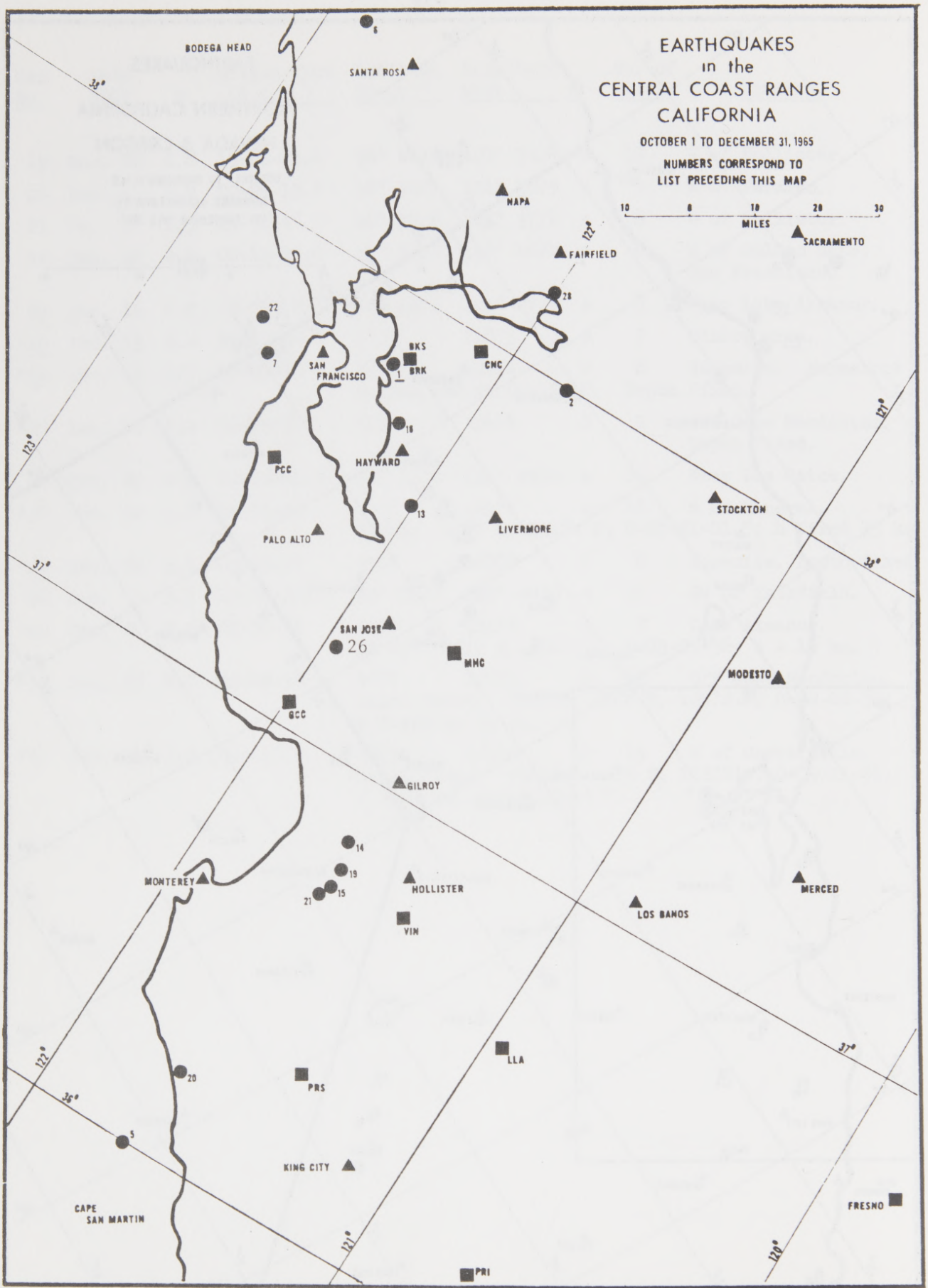
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

October - December 1965

Map No.	Date 1965	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
-	Oct. 4	4.8	01-44-41.8	44°.2	128°.1	33	7	Off coast of Oregon. Data from USCGS. Depth fixed.
-	Oct. 4	5.1	04-12-49.1	44°.0	128°.3	33	9	Off coast of Oregon. Data from USCGS. Depth fixed.
1	Oct. 8	2.4	07-08-49.4	37° 51'.5	122° 17'.0	b	7	W of Berkeley. Felt: Berkeley, Oakland.
2	Oct. 12	2.6	23-51-56	38° 00'	121° 49'	b	10	Aftershock of Sept. 10 at 21-28-34.3.
* 3	Oct. 13	3.2	00-43-00	37°.7	118°.7	a	5	S of Mono Lake.
1	Oct. 18	2.9	12-20-00.4	37° 51'.5	122° 17'.0	b	12	SW of Berkeley. Felt: Berkeley, San Francisco, Oakland, Alameda, Orinda.
* 4	Oct. 18	3.0	23-19-00	38°.6	122°.7	0	9	SW of Rumsey. Depth fixed.
* 5	Oct. 22	2.7	02-29-22	36°.0	121°.7	0	6	Off coast, W of King City. Depth fixed.
6	Oct. 25	2.6	04-50-30.1	38° 29'.3	122° 52'.6	a	9	NW of Santa Rosa. Felt: Healdsburg.
7	Oct. 25	2.9	16-50-07.6	37° 42'.9	122° 36'.0	a	7	W of Ft. Funston. Felt: San Francisco.
* 8	Nov. 1	4.3	17-10-15	39°.6	118°.5	a	11	E of Fallon, Nev. USCGS: 39°.3 N, 118°.5 W; 0=17-10-16.3; h fixed at 33 km; magnitude 4.4.
* 9	Nov. 3	4.0	00-46-35	40°.3	125°.5	0	15	Off Cape Mendocino. Depth fixed. USCGS: 40°.4 N, 125°.9 W; 0=00-46-33.9; h fixed at 33 km; magnitude 5.4.
*10	Nov. 3	3.5	23-06-24	37°.5	118°.5	a	5	Bishop area.
*11	Nov. 7	3.0	23-28-13	37°.3	118°.2	a	6	Bishop area.
12	Nov. 8	3.4	03-29-59.1	39° 57'.6	121° 15'.7	a	6	NW of Quincy. Felt: Beldon, Storrie.
13	Nov. 9	2.5	07-21-43.9	37° 35'.7	122° 00'.2	b	10	Near Hayward.
14	Nov. 9	2.5	12-57-20.0	36° 50'.8	121° 37'.9	a	14	NW of Hollister.
15	Nov. 9	2.5	22-58-55.5	36° 44'.2	121° 36'.2	a	8	NW of Hollister.
16	Nov. 15	2.3	02-02-13.8	37° 44'.0	122° 10'.4	a	7	S of Berkeley. Felt: South Oakland.
*17	Nov. 15	4.3	06-50-02	40°.5	125°.3	0	12	Off Cape Mendocino. Depth fixed. USCGS: 40°.4 N, 125°.8 W; 0=06-49-59; h fixed at 33 km; magnitude 4.8.
*18	Nov. 26	4.2	00-58-42	40°.5	124°.5	0	12	Off Cape Mendocino. Depth fixed. USCGS: 40°.3 N, 124°.3 W; 0=00-58-43; h = 7 km; magnitude 4.7.

Map No.	Date 1967	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
19	Nov. 28	2.8	15-05-13.0	36° 46.5	121° 35.4	a	12	W of Hollister.
20	Dec. 2	2.8	22-29-13.0	36° 12.1	121° 40.9	a	9	W of Paraiso.
21	Dec. 3	2.5	23-28-58.1	36° 43.6	121° 37.4	a	8	W of Hollister.
22	Dec. 12	2.5	02-15-46.0	37° 46.8	122° 40.4	a	4	W of Golden Gate, San Francisco.
23	Dec. 12	4.0	12-57-49.8	40° 12.1	121° 27.9	a	8	Near Lake Almanor.
*10	Dec. 13	3.0	21-01-02	37.5	118.5	a	5	Bishop area.
*24	Dec. 15	2.5	00-26-46	37.7	120.2	0	6	Yosemite. Foreshock of Dec. 22 at 00-19-17. Depth fixed.
*25	Dec. 15	3.0	03-43-52	40.4	124.4	0	5	Off Cape Mendocino. Depth fixed.
26	Dec. 20	2.5	17-10-48.3	37° 14.2	121° 59.0	a	10	Near Los Gatos.
*27	Dec. 20	3.6	18-31-00	40.7	121.5	a	18	N of Mineral. USCGS: 40.7 N, 121.4 W; 0=18-31-01.5; h fixed 33 km.
*24	Dec. 22	3.1	00-19-17	37.7	120.2	0	8	Yosemite. Depth fixed.
28	Dec. 25	3.1	13-54-34.8	38° 09.0	122° 00.9	a	10	SW of Fairfield.
*29	Dec. 26	2.5	03-29-36	40.2	121.3	a	7	Lake Almanor. USCGS: 40.2 N, 121.5 W; 0=03-29-36; h = 16 km.
*30	Dec. 29	4.0	02-02-38	40.7	125.0	0	12	Off Cape Mendocino. Depth fixed. USCGS: 40.6 N, 125.2 W; 0=02-02-39; h fixed at 33 km.
*31	Dec. 30	3.3	09-11-51	40.3	124.0	0	15	N of Garberville. Depth fixed. USCGS: 40.3 N, 123.8 W; 0=09-11-54; h = 16 km; magnitude 4.8.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
OCTOBER 1 TO DECEMBER 31, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
ALTURAS
BURNEY
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
ORV
MARYSVILLE
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
BKS
BRK
CNC
PCC
FALLON
STOCKTON
LIVERMORE
MARKLEEVILLE
YERINGTON
MNC
JAS
SONORA
AUSTIN
MCC
HAWTHORNE
MONTEREY
HOLLISTER
VIN
MERCED
YOSEMITE
PRS
LLA
KING CITY
TONOPAH
FRE
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE

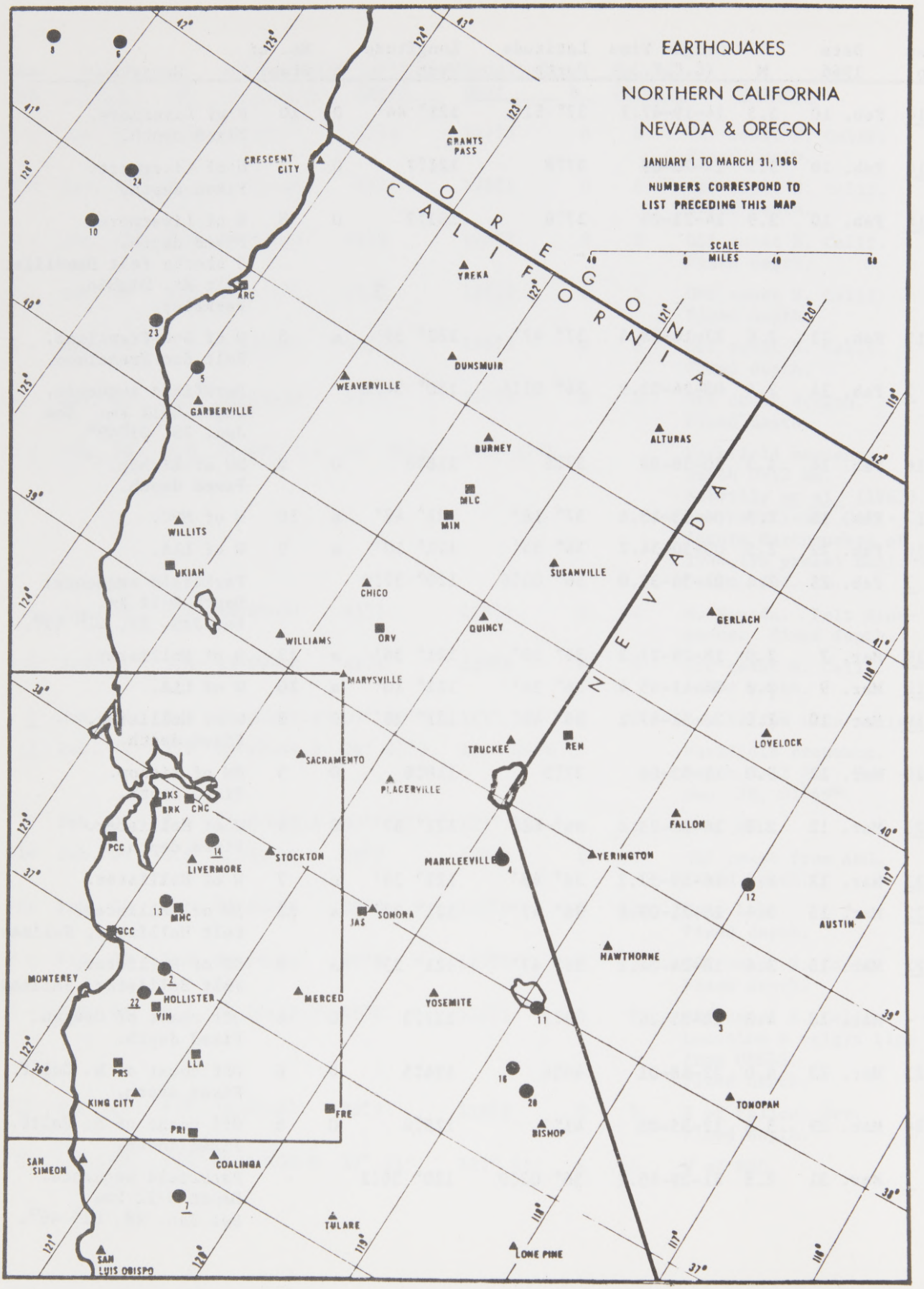

EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
OCTOBER 1 TO DECEMBER 31, 1965
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
VIN
LLA
PRS
KING CITY
CAPE
SAN MARTIN
FRESNO
PRI
122°
123°
37°
36°
121°
120°

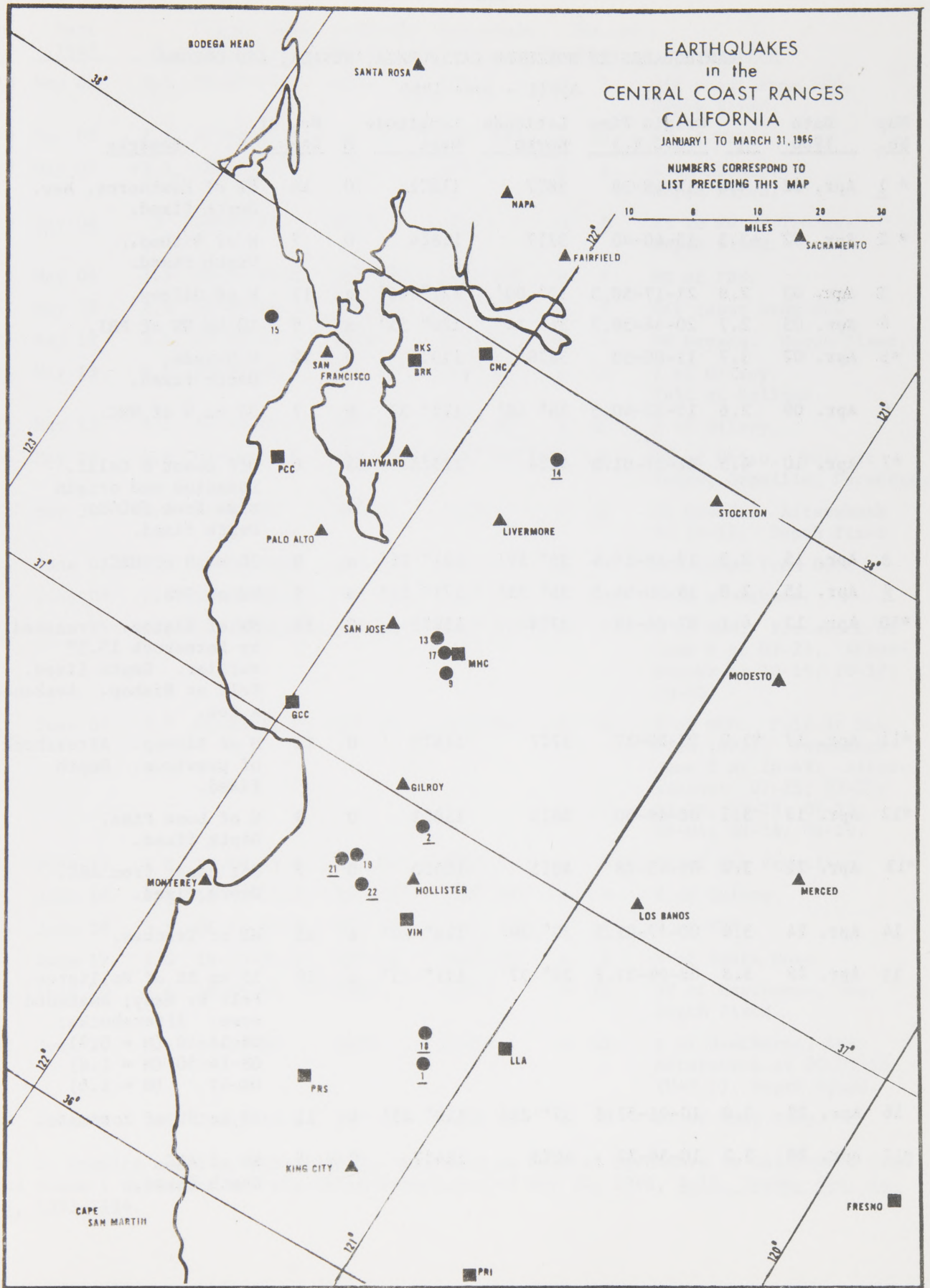
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
January - March 1966

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
1	Jan. 2	2.5	07-59-27.2	36° 31'	121° 08'	0	9	SW of LLA. Fixed depth.
2	Jan. 3	2.2	15-38-38.6	36° 58'	121° 28'	a	8	N of Hollister. San Felipe Lake series.
1	Jan. 3	2.6	23-49-52.6	36° 31'	121° 10'	b	8	SW of LLA.
2	Jan. 5	2.9	05-55-06.4	36° 59'	121° 28'	a	9	San Felipe Lake series. Felt Hollister.
* 3	Jan. 8	3.5	11-04-02	38°.5	117°.7	0	5	NW of Tonopah, Nev. Fixed depth.
2	Jan. 9	2.5	00-03-20.6	36° 58'	121° 28'	a	13	San Felipe Lake series. Felt Hollister.
2	Jan. 9	3.3	00-08-00.9	36° 58'	121° 28'	a	14	San Felipe Lake series. Felt Hollister.
* 4	Jan. 10	3.1	02-48-38	38°.7	119°.8	0	13	Near Markleeville. Fixed depth.
* 5	Jan. 10	3.4	21-10-01	40°.3	124°.0	0	10	NW of Garberville. Fixed depth.
2	Jan. 14	2.6	00-30-12.0	36° 58'	121° 29'	b	10	San Felipe Lake series.
2	Jan. 17	3.3	01-48-08.1	36° 59'	121° 29'	0	13	San Felipe Lake series. Fixed depth.
2	Jan. 17	4.1	02-03-20.0	36° 59'	121° 29'	a	16	Main shock of San Felipe Lake series. Felt Hollister, Oakland, San Francisco.
2	Jan. 17	3.1	02-23-37.3	36° 59'	121° 29'	b	12	San Felipe Lake series.
2	Jan. 17	3.0	02-48-37.6	37° 00'	121° 28'	a	13	San Felipe Lake series.
2	Jan. 17	2.8	06-22-56.5	37° 00'	121° 30'	b	13	San Felipe Lake series.
* 2	Jan. 17	2.6	10-36-17	37°.0	121°.5	0	9	San Felipe Lake series. Fixed depth.
2	Jan. 19	2.4	15-04-48.8	36° 58'	121° 27'	0	9	San Felipe Lake series. Fixed depth.
2	Jan. 19	2.4	19-51-15.7	36° 58'	121° 29'	b	9	San Felipe Lake series.
2	Jan. 19	2.7	20-02-34.3	36° 58'	121° 29'	b	11	San Felipe Lake series.
2	Jan. 21	3.5	04-10-36.0	36° 59'	121° 28'	a	14	San Felipe Lake series. Felt Hollister.
* -	Jan. 22	3.6	13-50-29	41°.6	117°.3	0	4	NE of Lovelock, Nev. Fixed depth.
* -	Jan. 22	4.1	15-17-04	36°.5	114°.7	0	4	SE Nevada. Fixed depth.

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* -	Jan. 22	3.6	17-18-37	41°.5	127°.3	0	5	Off coast N. Calif. Fixed depth.
* 6	Jan. 22	3.3	17-23-49	41°.7	126°.1	0	6	Off coast N. Calif. Fixed depth.
* -	Jan. 23	3.9	07-41-13	41°.2	126°.7	0	5	Off coast N. Calif. Fixed depth.
* -	Jan. 24	3.8	02-21-32	41°.2	127°.2	0	5	Off coast N. Calif. Fixed depth.
* -	Jan. 24	3.8	02-32-24	41°.7	126°.7	0	5	Off coast N. Calif. Fixed depth.
* -	Jan. 24	3.3	08-26-37	42°.5	127°.3	0	5	Off coast Oregon. Fixed depth.
7	Jan. 28	3.0	01-49-47.4	35° 50'.3	120° 27'.5			Parkfield sequence. Depth 0-12 km. McEvilly et al. (1967). The Parkfield, California Earthquakes of 1966,(in press) Bull. Seism. Soc. Am.
* -	Jan. 28	4.8	18-00-07	41°.7	118°.2	0	10	N. Nevada. Felt Winemucca. Fixed depth.
* 8	Jan. 29	3.8	16-09-04	41°.5	126°.6	0	5	Off coast N. Calif. Fixed depth.
2	Jan. 29	2.3	18-43-52.4	37° 00'	121° 30'	b	10	San Felipe Lake series.
7	Feb. 01	2.9	00-20-44.3	36° 02'.0	120° 34'.6			Parkfield sequence. Depth 0-12 km. See Jan. 28, 01^h49^m.
9	Feb. 02	2.8	13-07-56.1	37° 18'	121° 40'	a	11	S of MHC.
*10	Feb. 04	3.9	02-43-16	40°.7	125°.4	0	5	Off coast from ARC. Fixed depth.
*11	Feb. 06	3.8	05-03-25	38°.0	118°.9	0	12	Mono Lake. Fixed depth.
* -	Feb. 06	4.8	10-16-14	40°.3	127°.1	0	5	Off coast N. Calif. Fixed depth.
* -	Feb. 06	3.7	20-21-12.3	40°.4	126°.1	33	9	Off coast N. Calif. Location & origin time from USCGS. Fixed depth.
*12	Feb. 07	3.2	16-20-22	39°.3	118°.0	0	5	E of Fallon, Nev. Fixed depth.
13	Feb. 08	3.0	06-57-02.0	37° 21'	121° 45'	a	11	W of MHC.

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
14	Feb. 10	3.3	14-19-47.1	37° 51'	121° 44'	0	10	N of Livermore. Fixed depth.
*14	Feb. 10	3.3	14-20-09	37°.8	121°.7	0	2	N of Livermore. Fixed depth.
*14	Feb. 10	3.9	14-21-08	37°.8	121°.7	0	8	N of Livermore. Fixed depth. 3 shocks felt Danville. Felt Mt. Diablo, Berkeley.
15	Feb. 13	2.6	17-10-28.4	37° 47'	122° 39'	a	5	W of San Francisco. Felt San Francisco.
7	Feb. 14	2.4	00-24-03.9	36° 01'.4	120° 34'.1			Parkfield sequence. Depth 0-12 km. See Jan. 28, 01^h49^m.
*16	Feb. 14	3.3	20-58-59	37°.6	118°.8	0	8	NW of Bishop. Fixed depth.
17	Feb. 16	2.7	04-53-43.6	37° 18'	121° 42'	a	10	W of MHC.
18	Feb. 22	2.5	03-50-34.2	36° 35'	121° 10'	a	9	W of LLA.
7	Feb. 25	2.4	01-34-38.0	36° 03'.6	120° 37'.9			Parkfield sequence. Depth 0-12 km. See Jan. 28, $01^h\ 49^m$.
19	Mar. 7	2.8	18-29-27.3	36° 50'	121° 36'	a	13	W of Hollister.
18	Mar. 9	2.8	04-11-45.4	36° 36'	121° 10'	a	10	W of LLA.
19	Mar. 10	2.6	20-52-47.1	36° 49'	121° 36'	0	8	W of Hollister. Fixed depth.
*20	Mar. 12	3.0	11-03-04	37°.5	118°.6	0	5	NW of Bishop. Fixed depth.
21	Mar. 12	2.5	16-59-23.0	36° 48'	121° 37'	0	9	W of Hollister. Fixed depth.
21	Mar. 12	2.5	16-59-57.1	36° 48'	121° 39'	c	7	W of Hollister.
22	Mar. 16	3.4	18-21-09.9	36° 47'	121° 33'	a	13	SW of Hollister. Felt Hollister, Salinas.
22	Mar. 16	3.6	18-24-04.1	36° 47'	121° 33'	a	8	SW of Hollister. Felt Hollister, Salinas.
* -	Mar. 18	4.3	18-05-24	43°.7	127°.3	0	6	Off coast of Oregon. Fixed depth.
*23	Mar. 23	4.0	22-48-01	40°.4	124°.5	0	6	Off coast of N. Calif. Fixed depth.
*24	Mar. 29	3.6	12-55-08	41°.1	125°.4	0	6	Off coast of N. Calif. Fixed depth.
7	Mar. 31	2.5	21-28-45.2	36° 02'.9	120° 36'.2			Parkfield sequence. Depth 0-12 km. See Jan. 28, $01^h\ 49^m$.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JANUARY 1 TO MARCH 31, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
GERLACH
WILLIAMS
ORV
QUINCY
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
BKS
BRK
CNC
PCC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
MHC
JAS
SONORA
AUSTIN
SCC
HAWTHORNE
MONTEREY
HOLLISTER
VIN
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 1 TO MARCH 31, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
VIN
MERCED
LOS BANOS
LLA
PRS
KING CITY
CAPE
SAN MARTIN
FRESNO
PRI
38°
123°
122°
121°
37°
36°
120°
15
14
13
17
9
2
21
19
22
18
1

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

April - June 1966

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* 1	Apr. 02	4.8	12-48-38	38°.7	118°.1	0	14	NE of Hawthorne, Nev. Depth fixed.
* 2	Apr. 02	+3.3	15-40-40	37°.7	118°.4	0	7	N of Bishop. Depth fixed.
3	Apr. 03	2.6	21-17-58.5	37° 00'	121° 46'	a	11	W of Gilroy.
4	Apr. 05	2.7	20-44-58.7	36° 14'	120° 51'	a	9	10 km NW of PRI.
*5	Apr. 07	3.7	11-00-50	38°.8	119°.4	0	12	W Nevada. Depth fixed.
6	Apr. 09	2.6	15-32-40.5	36° 48'	121° 37'	b	7	30 km W of HRC.
*7	Apr. 10	4.5	22-27-01.8	41°.4	125°.5	33	6	Off coast N Calif. Location and origin time from USCGS. Depth fixed.
8	Apr. 15	2.5	17-19-18.4	36° 57'	121° 26'	a	9	30 km N of HRC.
9	Apr. 15	2.8	19-50-56.5	36° 35'	121° 14'	a	9	NE of PRS.
*10	Apr. 17	4.1	07-04-19	37°.4	118°.5	0	12	NW of Bishop. Preceded by foreshock 15.5^{s} earlier. Depth fixed. Felt at Bishop. Awakened a few.
*11	Apr. 17	+3.0	07-20-17	37°.7	118°.3	0	12	N of Bishop. Aftershock of previous. Depth fixed.
*12	Apr. 18	3.3	06-49-30	36°.5	118°.3	0	9	W of Lone Pine. Depth fixed.
*13	Apr. 21	3.2	09-43-28	40°.5	125°.0	0	7	Off coast from ARC. Depth fixed.
14	Apr. 24	3.6	00-47-01.5	39° 39'	120° 20'	a	11	NE of Truckee.
15	Apr. 29	3.8	08-09-27.2	36° 37'	121° 15'	a	10	15 km SE of Hollister. Felt by many; awakened some. Aftershocks: 08-14-10 (M = 0.9) 08-14-50 (M = 1.8) 08-17 (M = 1.6)
16	Apr. 29	3.0	10-01-52.3	37° 25'	119° 25'	b	11	25 km SW of Yosemite.
*17	Apr. 29	3.2	10-58-22	40°.3	124°.7	0	5	SW of ARC. Depth fixed.

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
*18	May 01	3.5	09-13-14	41°.2	125°.1	0	3	Off coast from ARC. Depth fixed.
9	May 02	2.5	12-18-27.5	36° 36'	121° 13'	a	10	NE of PRS.
*19	May 03	+3.3	18-25-27	37°.3	118°.4	0	5	S of Bishop. Depth fixed.
*20	May 04	3	00-17-59	39°.6	120°.5	0	5	15 km NW of Truckee. Depth fixed.
9	May 04	2.5	06-32-44.8	36° 34'	121° 15'	b	8	NE of PRS.
21	May 05	2.5	15-07-10.5	36° 56'	122° 13'	a	7	Off coast from GCC.
*22	May 11	3.4	14-04-00	41°.4	119°.4	0	4	NW Nevada. Depth fixed.
23	May 13	4.5	17-25-55.9	36° 55'	121° 34'	b	12	S of Gilroy. Felt at Salinas.
23	May 13	3.2	19-46-09.7	36° 56'	121° 33'	b	10	S of Gilroy.
24	May 24	4.6	03-49-55.1	39° 47'.0	121° 46'.2	20	8	NE of Chico. Felt at Chico, Oroville, Paradise.≠
*25	May 30	+3.5	09-39-02	38°.4	118°.1	0	12	SW Nevada. Aftershock at 15-11. Depth fixed.
21	June 02	2.9	13-12-20.4	36° 58'	122° 12'	a	7	Off coast from GCC.
26	June 03	2.5	14-22-58.4	37° 53'	122° 17'	a	5	Felt at Albany.
27	June 05	+2.5	20-49-51.8	37° 19'	121° 40'	a	7	W of MHC. Foreshock of June 6 at 07-23. Aftershocks at 20-15; 20-52; 20-53.
27	June 06	3.7	07-23-13.9	37° 19'	121° 44'	b	14	W of MHC. Felt at San Jose (UPI). Foreshock June 5 at 20-49. Aftershocks: 07-25; 07-27; 07-28; 07-29; 07-35; 08-04; 08-14; 08-29.
28	June 11	2.8	10-08-59.4	37° 42'	122° 34'	a	8	SW of San Francisco.
29	June 14	3.2	12-45-14.0	39° 59'	120° 28'	a	8	E of Quincy.
30	June 18	3.5	06-03-53.5	40° 17'	121° 12'	a	14	E of MIN.
31	June 19	2.8	16-05-31.4	38° 19'	122° 40'	a	8	S of Santa Rosa.
* 1	June 20	3.4	18-45-42	38°.6	118°.1	0	11	NE of Hawthorne, Nev. Depth fixed.
*32	June 20	3.4	19-58-57	38°.5	118°.4	0	11	E of Hawthorne, Nev. Aftershock at 20-08-55 (M=2.9). Depth fixed.
33	June 20	2.8	23-19-18.6	36° 20'	120° 58'	a	9	NE of King City.

≠cf. C. Lomnitz and B.A. Bolt (1967). Evidence on Crustal Structure in California from the Chase V Explosion and the Chico Earthquake of May 24, 1966, Bull. Seism. Soc. Am. 57, 1093-1114.

Map No.	Date 1966	M	Origin Time (G.C.T.)	Latitude North	Longitude West	h	No. of Stas.	Remarks
* 1	June 21	3.1	05-55-00	38°.6	118°.2	0	8	NE of Hawthorne, Nev. Depth fixed.
34	June 24	3.1	21-42-50.4	36° 30'	120° 51'	a	10	SE of LLA.
35	June 27	3.1	06-04-28.7	38° 29'	122° 50'	b	9	NE of Santa Rosa.
*36	June 27	3.6	07-40-17	38°.9	119°.3	0	15	Near Woodfords, Calif. Aftershocks: 07-51; 07-53; 08-07; 08-20; Magnitudes 1.7 to 2.4. Also 08-42; 09-07 (M about 1.8). Depth fixed.
*37	June 29	3.1	07-23-40	40°.9	125°.2	0	6	Off coast from ARC. Depth fixed.

PARKFIELD SEQUENCE

April 1, 1966 to June 30, 1966.
McEvilly et al. (1967). The Parkfield, California Earthquakes of 1966, Bull. Seism. Soc. Am., 57, 1221-1244.

Date 1966	Magnitude	Time (GMT) h m s	Latitude (N) Deg. Min.	Longitude (W) Deg. Min.	Depth
Apr. 12	2.3	15-31-39.8	36 06.4	120 42.2	--
May 11	2.3	17-37-01.1	35 59.5	120 34.0	--
May 23	2.5	08-07-37.6	36 01.0	120 34.0	--
May 23	2.2	08-11-07.0	36 01.0	120 34.0	--
May 27	2.7	15-36-03.7	35 58.9	120 30.7	--
June 18	2.0	16-32-17.6	35 57.6	120 31.6	--
June 28	3.1	01-00-31.5	35 56.9	120 30.7	--
*June 28	1.8	01-14-55	- -	- -	--
June 28	5.1	04-08-56.2	35 57.6	120 30.3	--
***June 28	-	04-09-53	- -	- -	--
June 28	2.6	04-18-34.0	35 56.6	120 31.5	--
June 28	5.5	04-26-13.4	35 57.3	120 29.9	--
***June 28	-	04-26-28	- -	- -	--
***June 28	-	04-26-34	- -	- -	--
***June 28	-	04-27-37	- -	- -	--
***June 28	-	04-27-58	- -	- -	--
***June 28	-	04-28-19	- -	- -	--
***June 28	-	04-28-36	- -	- -	--
*June 28	4.5	04-28-38	- -	- -	--
***June 28	-	04-28-46	- -	- -	--

Date 1966	Magnitude	Time (GMT) h m s	Latitude (N) Deg.	Min.	Longitude (W) Deg.	Min.	Depth
***June 28	-	04-29-13	-	-	-	-	--
*June 28	3.0	04-31-55	-	-	-	-	--
*June 28	3.5	04-32-50	-	-	-	-	--
June 28	3.0	04-34-59.1	35	49.3	120	23.5	--
*June 28	3.0	04-39-08	-	-	-	-	--
June 28	2.4	04-42-33.6	35	50.0	120	22.8	--
June 28	2.7	04-43-54.8	35	56.6	120	33.5	--
*June 28	3.0	04-46-22	-	-	-	-	--
*June 28	2.4	04-51-43	-	-	-	-	--
June 28	3.1	05-00-59.5	35	50.6	120	23.5	--
June 28	2.4	05-03-44.7	35	53.4	120	27.4	--
June 28	2.5	05-09-48.3	35	38.5	120	07.5	--
June 28	2.9	05-12-42.5	35	55.0	120	28.2	--
*June 28	2.1	05-17-05	-	-	-	-	--
*June 28	2.0	05-21-05	-	-	-	-	--
June 28	2.1	05-29-14.9	35	55.2	120	28.5	--
June 28	2.5	05-37-04.6	35	52.4	120	26.1	--
June 28	2.7	05-40-19.4	35	55.9	120	29.4	--
June 28	3.2	05-45-59.1	35	44.7	120	19.5	1.6
*June 28	2.2	05-48-26	-	-	-	-	--
June 28	2.1	05-51-34.0	35	52.1	120	25.7	--
*June 28	2.3	05-52-06	-	-	-	-	--
*June 28	2.4	05-52-58	-	-	-	-	--
*June 28	2.1	05-56-00	-	-	-	-	--
June 28	2.6	06-11-03.5	35	48.6	120	21.2	--
June 28	3.4	06-32-17.9	35	56.2	120	31.0	--
June 28	3.0	06-35-11.4	35	47.6	120	22.9	--
June 28	2.2	06-39-31.2	35	53.7	120	27.8	--
June 28	2.2	07-01-03.8	35	54.5	120	28.9	--
June 28	2.7	07-33-52.7	35	54.2	120	27.1	--
*June 28	2.3	07-41-43	-	-	-	-	--
June 28	3.0	07-45-48.3	35	53.5	120	27.6	--
June 28	2.4	08-14-48.6	35	50.4	120	24.8	--
June 28	2.0	08-47-52.4	35	51.4	120	24.7	--

Date 1966	Magnitude	Time (GMT) h m s	Latitude (N) Deg.	Min.	Longitude (W) Deg.	Min.	Depth
June 28	2.3	08-54-49.5	35	54.8	120	30.4	--
June 28	2.5	08-59-52.3	35	50.8	120	25.4	--
June 28	2.4	09-31-26.6	35	46.1	120	20.9	--
June 28	2.2	09-33-54.3	35	46.2	120	21.6	--
June 28	2.5	09-56-00.7	35	49.5	120	23.8	--
June 28	2.1	10-16-53.3	35	55.4	120	32.2	--
June 28	2.3	10-20-16.4	35	50.8	120	25.4	--
June 28	2.5	10-23-22.8	35	55.6	120	29.0	--
June 28	2.0	10-46-22.9	35	55.5	120	30.2	--
June 28	2.0	11-15-13.9	35	50.7	120	25.2	--
June 28	2.0	11-28-41.4	35	51.1	120	22.8	--
June 28	2.2	11-30-14.0	35	53.8	120	27.9	--
June 28	2.5	12-31-52.1	35	55.3	120	28.5	--
June 28	2.3	12-52-22.0	35	58.4	120	31.5	--
June 28	2.1	12-54-28.2	35	57.7	120	31.7	--
*June 28	2.7	13-48-22	-	-	-	-	--
June 28	2.6	14-13-09.3	35	55.5	120	28.8	--
June 28	2.2	14-21-36.3	35	55.4	120	28.7	--
June 28	2.3	14-51-53.6	35	53.9	120	28.0	--
June 28	2.3	18-12-19.4	35	55.3	120	29.9	--
*June 28	2.0	18-22-32	-	-	-	-	--
June 28	2.5	18-54-55.3	35	52.8	120	26.5	--
June 28	2.8	19-59-37.8	35	55.7	120	27.6	--
June 28	2.5	20-00-36.7	35	54.8	120	29.2	--
June 28	3.1	20-46-56.4	35	46.0	120	23.9	--
June 28	2.0	22-01-18.9	35	51.1	120	25.7	--
June 28	2.0	22-37-56.7	35	52.5	120	24.7	--
June 28	2.5	23-57-22.3	35	46.2	120	21.5	--
June 29	2.3	00-17-32.6	35	51.1	120	25.7	--
June 29	3.6	02-19-39.9	35	54.6	120	31.3	--
June 29	2.8	04-06-40.3	35	55.6	120	32.4	--
June 29	2.3	07-28-59.4	35	55.6	120	28.9	--
June 29	2.9	08-55-52.4	35	53.0	120	26.6	--
June 29	2.5	09-20-50.1	35	47.2	120	22.3	--
June 29	2.3	10-13-44.0	35	58.4	120	30.1	--

Date 1966	Magnitude	Time (GMT) h m s	Latitude (N) Deg.	Min.	Longitude (W) Deg.	Min.	Depth
June 29	3.0	10-56-58.8	35	45.1	120	20.1	--
June 29	2.4	12-30-09.0	35	56.1	120	29.6	--
June 29	3.1	13-11-59.7	35	48.7	120	22.9	--
June 29	2.0	15-18-38.9	35	57.1	120	20.3	--
June 29	2.3	15-34-22.2	35	55.7	120	29.1	--
June 29	2.1	16-03-30.1	35	51.9	120	26.9	--
June 29	2.0	17-10-28.3	35	48.9	120	21.6	--
June 29	5.0	19-53-25.9	35	56.6	120	31.5	--
June 29	2.5	20-44-40.0	35	43.8	120	17.0	--
*June 29	2.3	23-48-12	-	-	-	-	--
June 30	4.1	01-17-36.1	35	51.9	120	26.9	--
June 30	2.6	03-36-16.8	35	54.7	120	27.7	--
June 30	2.0	05-04-12.9	35	53.2	120	27.2	--
June 30	2.4	06-07-21.5	35	56.4	120	28.6	--
June 30	2.1	06-23-32.4	35	53.8	120	27.9	--
June 30	2.0	07-37-12.1	35	54.0	120	28.2	--
June 30	2.9	08-01-38.4	35	53.8	120	27.9	--
June 30	2.8	11-07-55.1	35	46.9	120	19.8	12.2
June 30	2.3	13-26-05.7	35	46.8	120	20.8	4.0
June 30	2.0	13-29-56.6	35	51.5	120	24.4	7.7
June 30	2.1	13-40-50.9	35	49.9	120	22.6	3.5
June 30	2.3	16-05-02.7	35	57.8	120	30.5	10.3
June 30	2.1	19-06-17.5	35	51.9	120	25.1	4.8

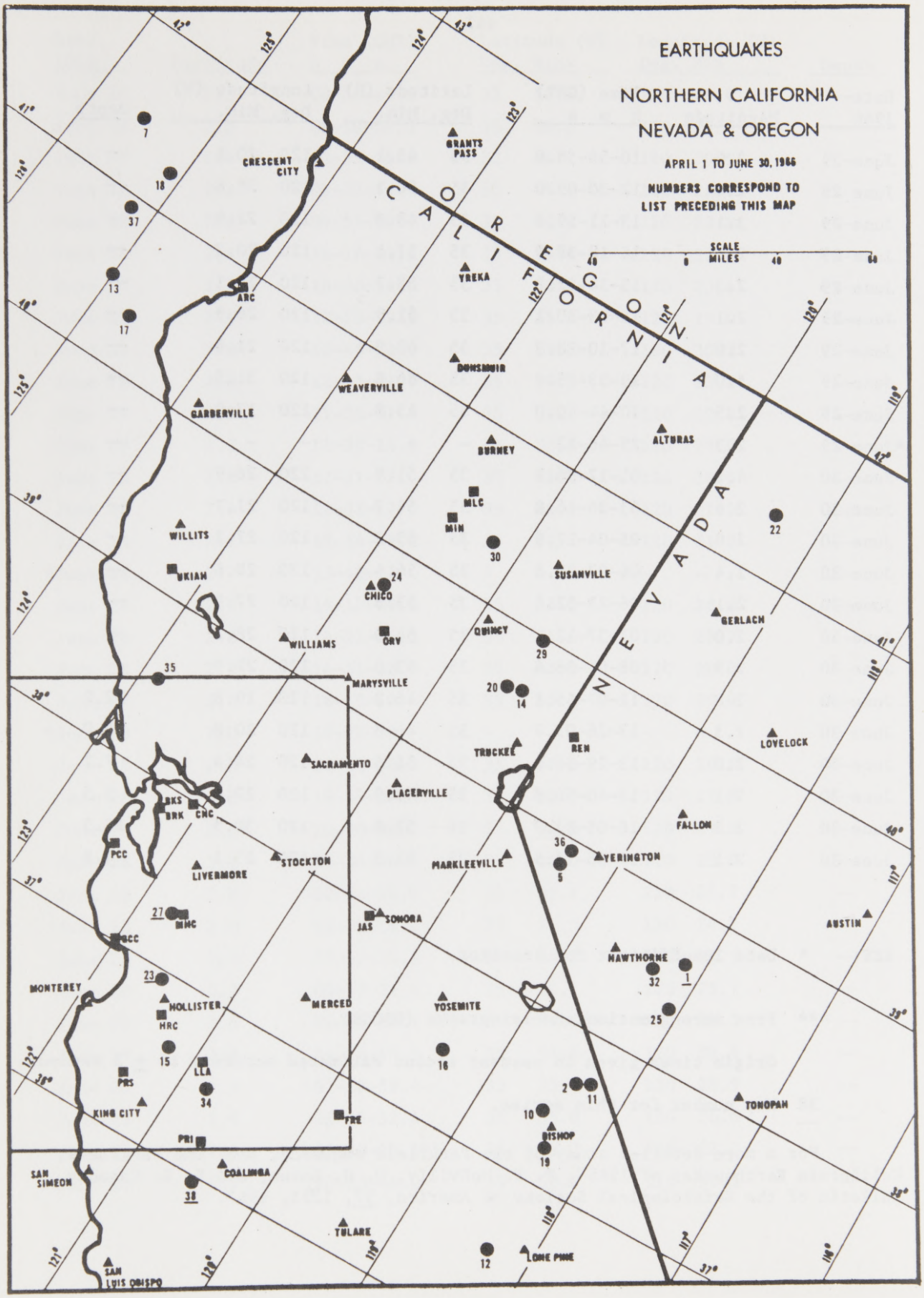
KEY: * Data insufficient for location.

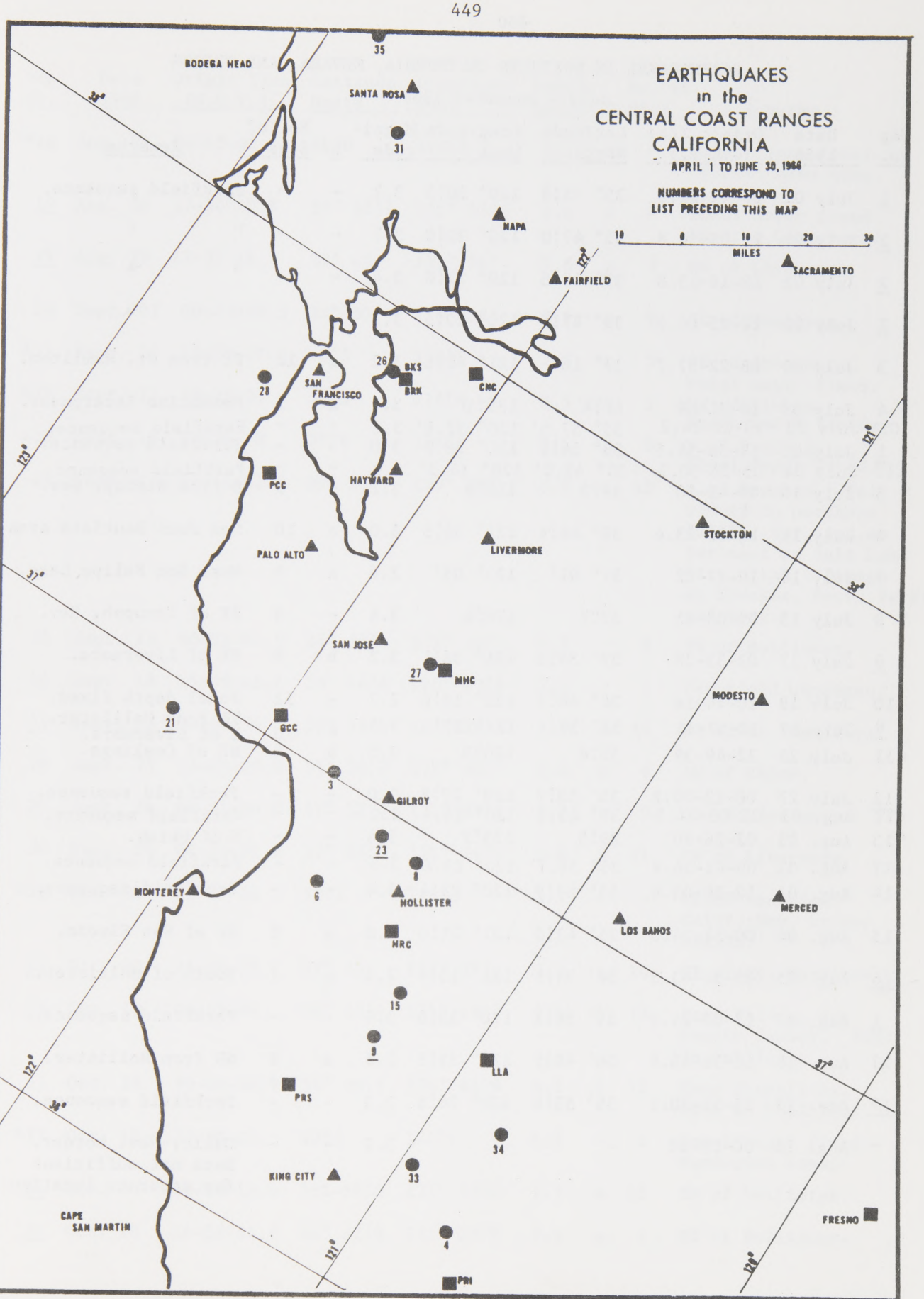
*** From strong motion accelerographs (USCGS).

Origin times given to nearest second estimated accurate to ± 3 seconds.

38 Map number for this series.

For a more detailed study of the Parkfield sequence, see "The Parkfield, California Earthquakes of 1966", T. V. McEvilly, W. H. Bakum, and K. B. Casaday, Bulletin of the Seismological Society of America, 57, 1221, 1967.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
APRIL 1 TO JUNE 30, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
TREKA
ARC
WEAVERVILLE
DUNSMUIR
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
ORV
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
BKS
BRK
CNC
PCC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
MNC
JAS
SONORA
AUSTIN
GCC
HAWTHORNE
MONTEREY
HOLLISTER
HRC
MERCED
YOSEMITE
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
APRIL 1 TO JUNE 30, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
MRC
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
PBI
35
31
26
28
21
27
3
23
8
6
15
9
34
33
4
123°
122°
121°
120°
39°
38°
37°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

July - December 1966

Map No.	Date 1966	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	July 01	09-41-21.9	35° 55!8	120° 30!5	3.2	-	-	Parkfield sequence.
2	July 02	12-08-34.8	35° 47!0	120° 20!0	3.7	-	-	" "
2	July 02	12-16-15.8	35° 48!5	120° 21!0	3.4	-	-	" "
2	July 02	12-25-06.8	35° 47!5	120° 20!5	3.1	-	-	" "
3	July 03	08-22-57.7	37° 16'	121° 40!3	3.2	a	12	SE from Mt. Hamilton.
* 4	July 03	18-21-48	40°!4	125°!1	3.6	a	5	Mendocino Escarpment.
CIT	July 03	20-22-24.2	35° 57.5'	120° 32.8'	3.2	-	-	Parkfield sequence.
1	July 05	18-54-54.5	35° 54!9	120° 28!9	3.0	-	-	Parkfield sequence.
CIT	July 04	05-28-50.3	35° 42.0'	120° 14.5'	2.9	-	-	Parkfield sequence.
* 5	July 10	09-41-10	37°!3	118°!3	3.2	-	5	S from Bishop, Nev.
6	July 11	16-22-23.4	36° 46!4	121° 36!5	3.0	a	10	San Juan Bautista area.
7	July 14	19-27-22	37° 01'	121° 05'	2.6	a	9	Near San Felipe Lake.
* 8	July 15	09-05-25	37°!7	116°!4	3.4	-	4	SE of Tonopah, Nev.
9	July 17	02-33-26	37° 39!6	121° 36!1	3.2	b	9	SE of Livermore.
10	July 19	10-44-18	36° 48!7	121° 18!6	2.7	-	11	Focal depth fixed.
9	July 19	12-57-41	37° 39'	121° 37'	3.3	a	10	SE from Hollister. E of Livermore.
*11	July 25	22-49-39	36°!4	120°!3	2.5	a	4	NE of Coalinga.
12	July 27	08-12-00.2	35° 53!7	120° 27!8	3.0	-	-	Parkfield sequence.
CIT	Aug. 01	12-05-34.5	35° 43.3'	120° 14.4	3.3	-	-	Parkfield sequence.
*13	Aug. 03	02-26-20	39°!5	123°!2	3.4	-	-	N of Ukiah.
CIT	Aug. 03	09-41-36.4	35° 58.7'	120° 22.6'	3.3	-	-	Parkfield sequence.
14	Aug. 03	12-39-05.8	35° 47!9	120° 23!4	3.4	-	-	Parkfield sequence.
15	Aug. 04	00-54-24.5	35° 43!5	121° 21!0	3.0	a	8	NW of San Simeon.
16	Aug. 05	05-54-43.3	36° 34!8	121° 13!4	2.5	b	7	South of Hollister.
1	Aug. 07	17-03-24.9	35° 56!2	120° 33!0	3.0	-	-	Parkfield sequence.
17	Aug. 18	11-36-55.8	36° 49!5	121° 33!3	2.5	a	9	NW from Hollister.
12	Aug. 19	22-51-20.1	35° 53!8	120° 26!6	3.3	-	-	Parkfield sequence.
-	Aug. 20	00-29-40	-	-	3.2	-	-	Calif.-Nev. border. Data not sufficient for accurate location.

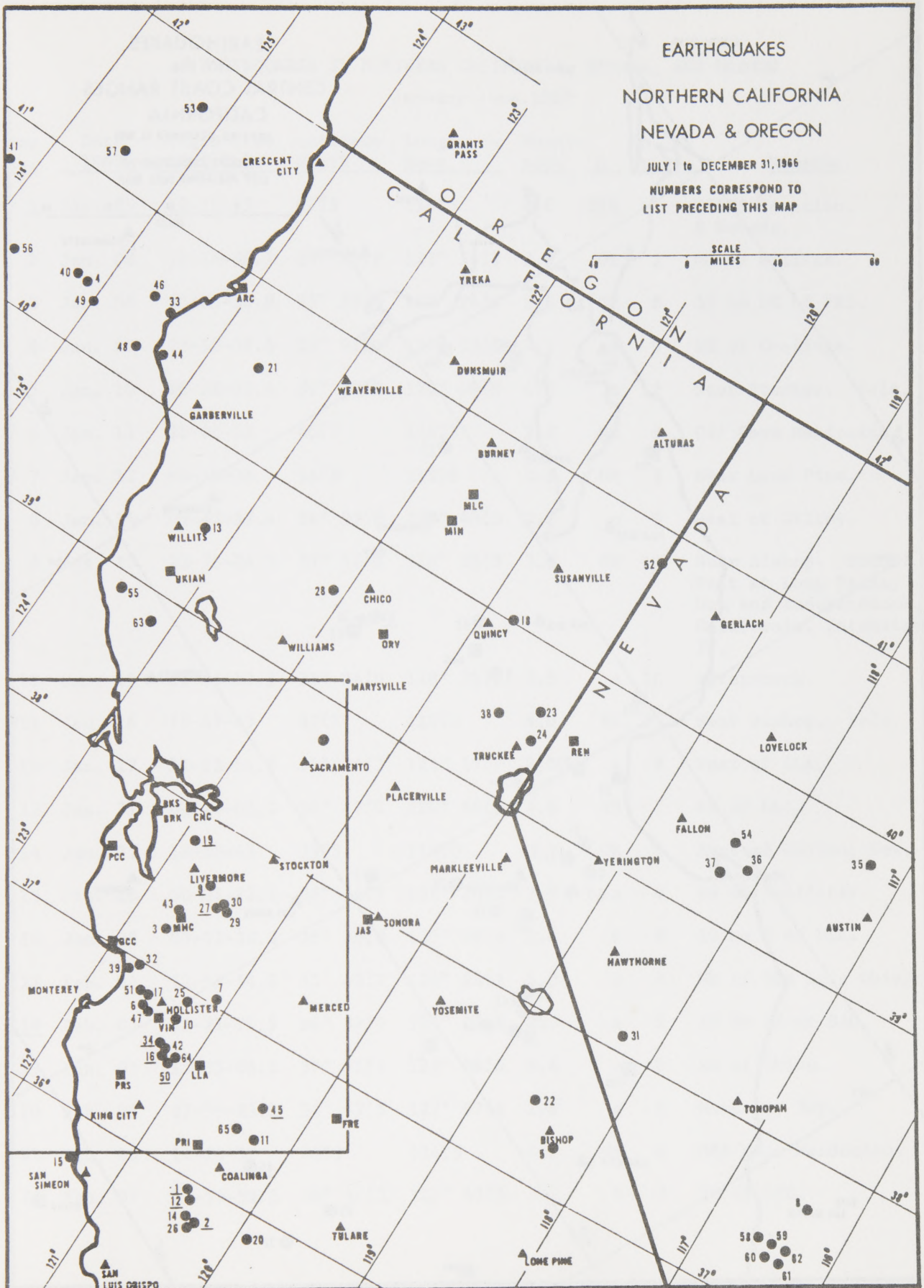
Map No.	Date 1966	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
*18	Aug. 21	20-45-02	40°.0	119°.8	3.1	a	4	Focal depth fixed. Pyramid Lake area.
19	Aug. 29	17-30-10.8	37° 48'.7	121° 55'.5	3.0	a	5	Focal depth fixed. NW from Livermore.
19	Aug. 29	17-32-42	37° 47'	121° 54'	2.6	a	5	NW of Livermore.
20	Sept. 07	00-20-50.5	35° 50'	119° 56'	3.2	c	9	SE of Coalinga.
*21	Sept. 10	15-39-07.5	40°.5	123°.6	3.0	a	5	SE of Arcata. Focal depth fixed.
*22	Sept. 11	19-25-24	37°.5	118°.6	3.5	a	9	NW of Bishop. Focal depth fixed.
*23	Sept. 11	20-36-18	39°.6	120°.2	3.4	a	8	N of Truckee. Focal depth fixed.
24	Sept. 12	16-41-01.9	39° 25'	120° 09'	6.0	a	10	N of Truckee. Felt widely in northern Calif., Nev. and as far east as Salt Lake City, Utah. Damage at Truckee, Boco, Verdi and Reno.
25	Sept. 13	06-31-45.5	36° 55'	121° 16'	2.7		8	NE of Hollister.
26	Sept. 18	15-09-55.7	35° 44'.4	120° 20'.9	3.1	-	-	Parkfield sequence.
27	Sept. 20	04-14-54.8	37° 32'.0	121° 29'.3	3.3	a	12	NE of Mt. Hamilton.
28	Sept. 25	13-05-39.9	39° 36'.7	122° 06'.7	3.0	a	6	SW of Chico.
29	Sept. 28	08-51-36.8	37° 32'.0	121° 24'.4	2.7	a	9	SE of Livermore.
30	Sept. 28	08-56-01.2	37° 32'.7	121° 26'.8	2.8	a	11	SE of Livermore.
*31	Oct. 01	02-57-58	38°.1	118°.3	3.7	-	-	USCGS location. Calif.-Nev. border region.
27	Oct. 02	21-46-30	37° 33'	121° 27'	2.5	a	10	NE of Mt. Hamilton.
16	Oct. 10	06-53-46	36° 35'.4	121° 13'.2	4.1	b	12	Bear Valley, San Benito County. Felt in Hollister.
32	Oct. 14	20-34-28.9	36° 59'.5	121° 44'.6	4.2	b	12	Near Corralitos. Felt in Hollister.
*33	Oct. 15	22-59-14	40°.5	124°.4	4.2	-	6	Focal depth fixed. Mendocino coast.
34	Oct. 20	08-00-10.4	36° 37'.0	121° 16'.2	2.7	a	10	SE of Hollister.
34	Oct. 20	14-58-31.4	36° 37'.9	121° 18'.7	2.6	a	9	SE of Hollister.

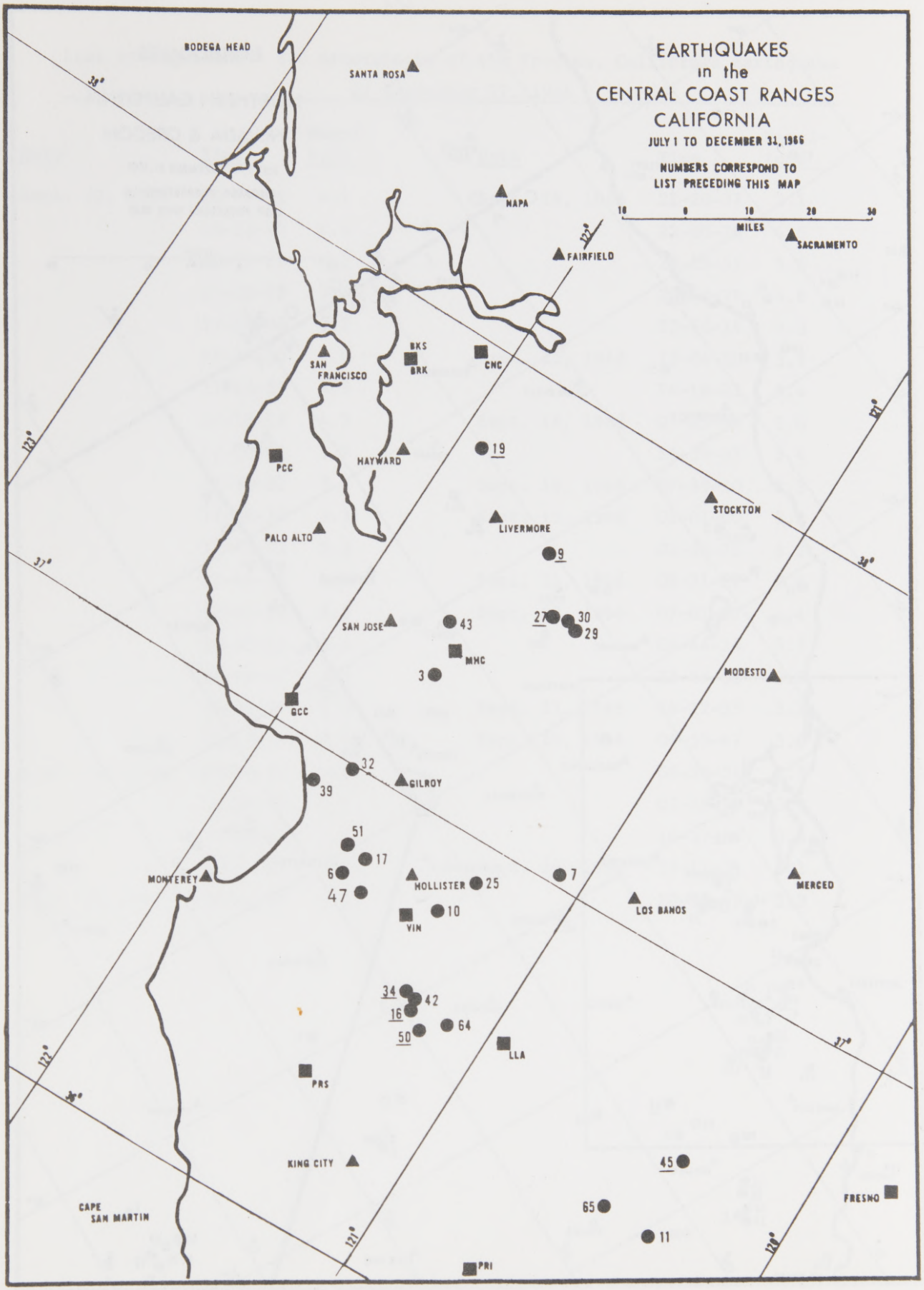
Map No.	Date 1966	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
34	Oct. 20	15-10-31.9	36° 38!0	121° 17!9	2.7	a	9	SE of Hollister.
*35	Oct. 22	08-19-29	39°8	117°3	3.4	-	-	Focal depth fixed. NW of Austin, Nev.
*36	Oct. 22	15-20-43	39°4	118°1	3.9	-	-	USCGS location, Nev.
*37	Oct. 22	15-35-36	39°3	118°3	3.8	c	5	Nevada.
38	Oct. 24	06-03-20.0	39° 28!5	120° 38!6	3.3	b	6	NW of Truckee.
39	Oct. 25	20-54-42.5	36° 55!8	121° 48!2	2.9	b	7	Near Watsonville.
1	Oct. 27	12-06-03.9	35° 55!8	120° 30!4	3.8	-	-	Parkfield sequence.
34	Oct. 31	18-47-50.9	36° 36!3	121° 16!3	2.9	a	10	SE of Hollister.
*40	Nov. 01	19-50-16	40°4	125°2	3.6	-	11	Focal depth fixed. Mendocino Escarpment.
*41	Nov. 02	11-02-41.7	40°7	126°2	3.7	b	7	Mendocino Escarpment.
42	Nov. 04	04-53-36.7	36° 36!4	121° 14!5	3.3	b	11	Bear Valley.
43	Nov. 04	16-53-36.4	37° 24!4	121° 43!7	2.6	b	9	NW of Mt. Hamilton.
1	Nov. 05	13-31-31.2	35° 55!6	120° 30!3	3.3	-	-	Parkfield sequence.
44	Nov. 07	11-47-13	40° 16'	124° 29'	3.6	b	7	SW of Ferndale.
45	Nov. 15	05-36-27.7	36° 35!7	120° 21!0	3.2	a	9	SW of Fresno.
45	Nov. 15	05-44-41.2	36° 34!7	120° 20!2	3.4	a	10	SW of Fresno.
26	Nov. 18	23-39-42.3	35° 45!1	120° 20!0	3.3	-	-	Parkfield sequence.
*46	Nov. 21	23-13-23	40°5	124°6	3.9	-	4	Focal depth fixed. W of Ferndale.
47	Nov. 22	20-34-08.7	36° 45!4	121° 31!4	2.6	a	10	SW of Hollister.
*48	Nov. 24	19-17-33	40°2	124°5	3.2	-	-	Focal depth fixed. Off coast of Mendocino.
* -	Nov. 26	04-30-50.6	40°5	126°0	4.8	-	9	Focal depth fixed. Off coast of Mendocino. (Not on the map.)
* -	Nov. 26	05-56-29	40°5	126°1	4.7	-	9	Focal depth fixed. Off coast of Mendocino. (Not on the map.)
*49	Nov. 27	10-05-32	40°3	125°0	3.4	-	-	Focal depth fixed. Mendocino Escarpment.
50	Nov. 29	13-08-18.8	36° 32!8	121° 09!9	2.6	a	9	N of King City.

Map No.	Date 1966	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
51	Dec. 06	10-34-30.1	36° 50!0	121° 37!5	3.3	a	9	Near San Juan Bautista. Felt in Salinas and Hollister.
*52	Dec. 07	20-43-59.8	40°8	120°0	4.3	-	-	USCGS location, Calif.-Nev. border.
*53	Dec. 08	17-17-45	41°7	125°2	3.7	-	5	Focal depth fixed. West of Crescent City.
54	Dec. 10	11-50-32.3	39° 30!9	120° 18!8	3.2	a	7	NW of Carson City, Nev.
*55	Dec. 16	07-32-36	38°9	123°5	3.1	-	-	SW of Ukiah.
*56	Dec. 17	15-16-31	40°3	125°7	4.5	-	-	USCGS location. Off coast of Mendocino.
50	Dec. 18	03-52-25.4	36° 33!2	121° 09!3	2.5	a	8	N of King City.
*57	Dec. 18	14-39-24	41°2	125°5	3.9	b	6	Off coast of Mendocino.
*58	Dec. 20	18-04-04	37°4	116°6	3.7	-	-	USCGS location, southern Nevada.
*59	Dec. 21	02-14-27	37°4	116°5	3.5	-	-	USCGS location, southern Nevada.
*60	Dec. 21	06-02-06	37°3	116°5	4.1	-	-	USCGS location, southern Nevada.
*61	Dec. 21	14-37-29.6	37°3	116°4	3.8	-	-	USCGS location, southern Nevada.
*62	Dec. 22	12-59-15	37°4	116°4	3.6	-	-	USCGS location, southern Nevada.
63	Dec. 23	02-23-37	38° 51!1	123° 09!9	3.5	a	8	SW of Clear Lake.
64	Dec. 24	20-57-06.1	36° 36!1	121° 07!4	2.6	a	8	NE of Soledad.
65	Dec. 30	10-23-48	36° 28'	120° 24'	2.5	a	4	N of Coalinga.

List of Magnitude > 3.0 Aftershocks of the Truckee, California Earthquake of September 12, 1966

Date	Time	Magnitude	Date	Time	Magnitude
Sept. 12, 1966	16-47-31	4.1	Sept. 14, 1966	21-20-37	3.1
	16-51-12	4.4		22-00-28	4.6
	16-53-29	4.3		22-15-57	3.5
	17-02-22	3.4		22-40-28	4.6
	17-14-56	3.2		23-48-14	3.3
	17-15-30	3.0	Sept. 15, 1966	12-04-20	3.2
	17-16-57	4.3		14-18-03	3.4
	17-19-23	4.2	Sept. 16, 1966	07-23-46	3.0
	17-20-11	5.3		19-59-37	3.4
	17-30-02	3.2	Sept. 18, 1966	07-39-50	3.3
	17-39-36	3.3	Sept. 19, 1966	01-01-00	3.3
	17-43-01	3.3		02-45-23	3.2
	17-44-39	4.1	Sept. 21, 1966	08-31-27	3.1
	18-02-29	3.5	Sept. 22, 1966	07-01-27	4.4
	18-35-11	3.1		08-44-14	3.5
	18-42-47	3.5		22-45-08	3.8
	19-04-29	3.5	Sept. 27, 1966	18-12-35	3.3
	22-08-59	3.2	Sept. 28, 1966	04-55-47	3.6
Sept. 13, 1966	08-42-55	3.6		06-38-34	3.7
	20-16-22	4.1		07-39-33	3.3
	21-00-04	3.2		16-37-49	3.5
	22-24-03	3.4	Sept. 29, 1966	17-11-24	3.1
Sept. 14, 1966	20-43-02	3.1		20-11-45	3.3


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 1 to DECEMBER 31, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
WILLITS
UKIAH
CHICO
SUSANVILLE
GERLACH
WILLIAMS
ORV
QUINCY
MARYSVILLE
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
LIVERMORE
SONORA
JAS
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
KING CITY
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JULY 1 TO DECEMBER 31, 1966
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CNC
PCC
HAYWARD
19
STOCKTON
LIVERMORE
PALO ALTO
9
SAN JOSE
43
27
30
29
MHC
3
MODESTO
GCC
32
39
GILROY
51
17
6
47
MONTEREY
HOLLISTER
25
7
MERCED
VIN
10
LOS BANOS
34
42
16
64
50
LLA
PRS
KING CITY
45
65
11
FRESNO
CAPE
SAN MARTIN
PRI
39°
38°
37°
122°
121°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON

January-June 1967

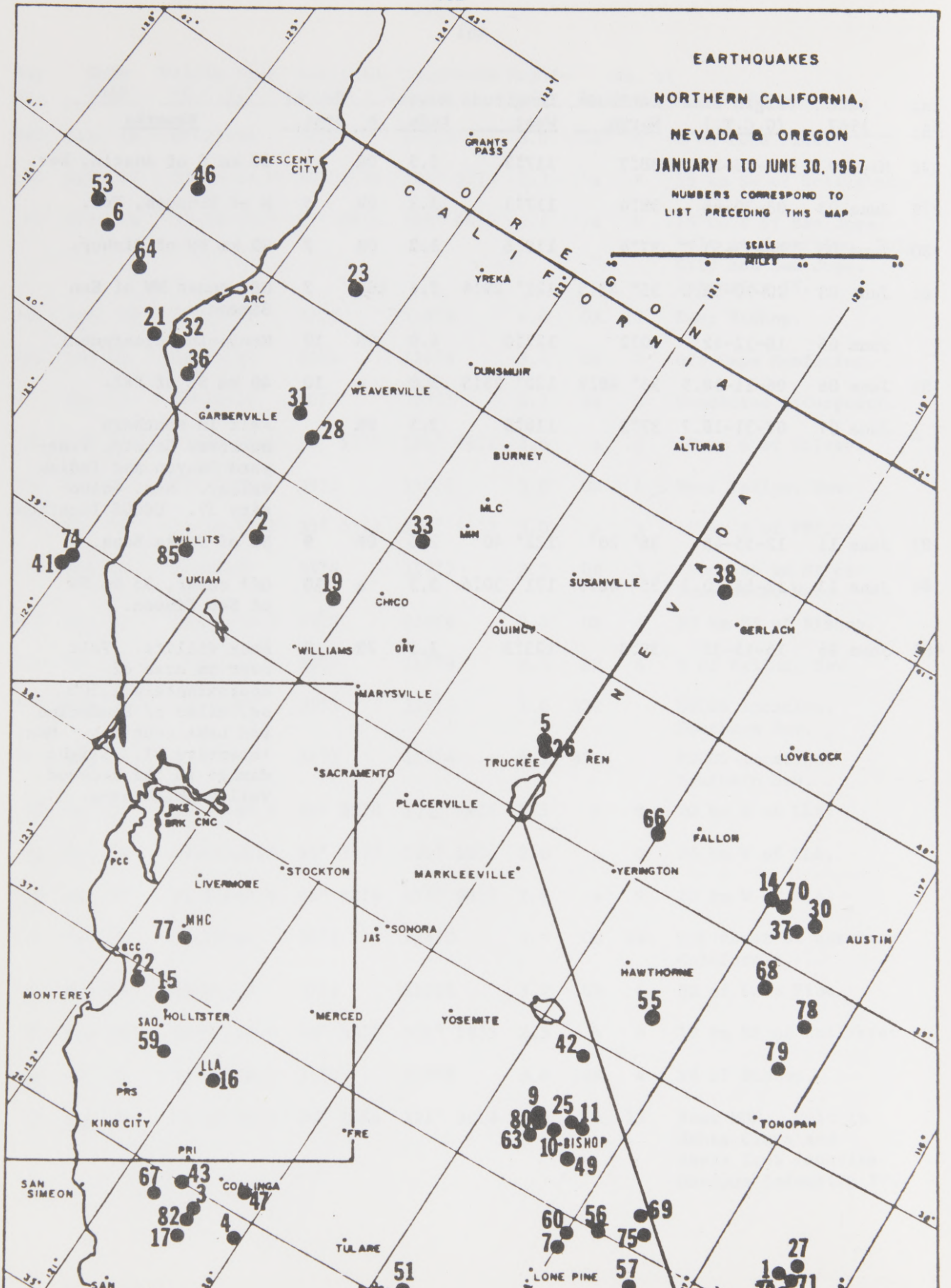
Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
* 1	Jan. 05	12-15-23	37°.3	116°.5	4.0	33R		USCGS location. S Nevada.
2	Jan. 08	12-14-56.3	39° 35'.8	122° 54'.7	2.9	OR	5	NE of Willits.
3	Jan. 08	23-03-50.9	35° 53'.8	120° 24'.9	2.8	OR	8	35 km SE of PRI.
4	Jan. 09	23-18-59.5	35° 52'.0	120° 03'.8	3.1	d	9	SE of Coalinga.
5	Jan. 10	10-28-23.4	39° 28'.2	120° 09'.9	4.0	a	12	Near Truckee. Felt.
* 6	Jan. 11	20-01-03	40°.7	125°.3	3.3	OR	9	Off Cape Mendocino.
* 7	Jan. 12	06-10-36	36°.8	118°.0	3.1	OR	7	Near Lone Pine.
8	Jan. 14	09-42-37.4	36° 59'.9	121° 43'.5	2.7	c	9	West of Gilroy.
9	Jan. 15	23-26-24.5	37° 27'.2	118° 38'.3	3.8	OR	11	Near Bishop. USCGS: Felt at Long Valley Dam and Independence, California. Intensity IV.
10	Jan. 16	01-54-52.3	37° 24'.0	118° 28'.9	3.5	a	10	Aftershock.
*11	Jan. 16	19-37-49	37°.5	118°.3	4.0	OR	11	Near Bishop. Felt.
12	Jan. 17	11-13-54.6	36° 36'.3	121° 15'.0	2.5	a	8	West of LLA.
13	Jan. 21	01-20-01.2	36° 47'.0	120° 49'.0	2.5	2R	7	NE of LLA.
*14	Jan. 25	18-15-45	39°.3	118°.0	3.7	OR	9	East of Fallon, Nev.
15	Jan. 28	00-01-22.4	36° 54'.7	121° 30'.5	3.0	a	8	NW of Hollister.
16	Jan. 28	09-27-38.3	36° 38'.8	120° 49'.4	3.4	b	8	10 km E of LLA.
17	Feb. 01	13-55-54.1	35° 42'.2	120° 24'.3	3.0	a	8	NE of San Luis Obispo.
18	Feb. 01	23-21-29.9	36° 37'.9	121° 17'.6	2.5	a	8	20 km SE of SAO.
19	Feb. 03	15-35-08.1	39° 31'.6	122° 08'.6	3.4	a	9	SW of Chico.
20	Feb. 05	07-36-23.3	36° 47'.5	122° 07'.4	2.6	a	8	Monterey Bay.
*21	Feb. 06	14-24-32	40°.3	124°.5	3.8	OR	6	Off Cape Mendocino.
22	Feb. 07	21-59-58.6	36° 54'.2	121° 43'.3	3.1	b	8	SE of GCC.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
*23	Feb. 08	09-37-53	41°2	123°4	4.0	OR	11	70 km NE of Arcata.
24	Feb. 09	15-29-13.0	36° 50'9	121° 35'4	2.5	a	9	S of Gilroy.
*25	Feb. 11	15-15-21	37°5	118°4	3.5	OR	8	15 km N of Bishop.
26	Feb. 12	23-41-18	39°4	120°1	3.0	OR	9	Near Truckee.
*27	Feb. 14	01-08-27	37°4	116°4	3.9	33R		USCGS location.
24	Feb. 18	01-33-24.3	36° 50'0	121° 35'5	2.5	a	9	W of Hollister.
*28	Feb. 23	20-30-23	40°3	123°0	3.4	OR	5	S of Weaverville.
*	Feb. 24	02-26-31.5	40°5	126°3	3.1	OR	7	Off Cape Mendocino.
*	Feb. 24	10-17-13	36°5	116°0	3.2	OR	4	Calif.-Nev. border.
29	Feb. 25	02-00-32.8	36° 53'0	121° 38'3	2.8	a	9	S of Gilroy. Felt in Aromas (IV) and in the vicinity of San Juan Bautista.
*30	Feb. 25	07-20-15	39°3	117°6	3.5	OR	5	W of Austin, Nev.
*31	Feb. 25	15-52-07.5	40°4	123°2	4.1	OR	7	SW of Weaverville. Felt in Arcata and Salyer. Intensity IV.
32	Feb. 25	21-33-47	40° 20'	124° 18'	3.3	c	7	65 km SW of Arcata. Felt at Petrolia.
*33	Feb. 26	13-51-57	40°1	121°8	3.1	OR	5	30 km SW of Mineral.
34	Feb. 26	15-17-53.9	36° 28'1	121° 03'7	2.5	a	9	SW of LLA.
35	Mar. 01	14-07-35.0	36° 47'1	121° 33'6	2.6	a	9	Near Hollister.
*36	Mar. 02	07-11-02	40°2	124°1	4.0	OR	13	30 km NW of Garberville. Felt in Petrolia, Eureka and Scotia. Maximum intensity V.
	Mar. 02	14-12-50.7	36° 25'5	117° 36'6	4.5	10R	13	SE of Lone Pine. Felt in southern Inyo County. Maximum intensity V. Aftershock (M=3.2) at about 14-20.
*37	Mar. 05	21-30-44	39°2	117°7	3.7	OR	5	SW of Austin, Nev.
*38	Mar. 06	05-28-33	40°8	119°6	3.5	OR	8	NW of Gerlach, Nev.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
39	Mar. 07	02-40-59.3	36° 50!4	121° 27!7	2.2	a	7	Near Hollister. Felt.
40	Mar. 10	06-28-48.9	37° 09!8	121° 32!8	2.7	a	9	20 km SE of MHC.
41	Mar. 10	12-45-36.5	38° 48!7	124° 01!6	3.0	b	8	Off coast, Pt. Arena.
*42	Mar. 11	15-53-58	37°9	118°6	3.2	OR	5	60 km S of Hawthorne.
43	Mar. 13	21-59-48.4	36° 00!6	120° 36!6	3.1	c	8	15 km S of PRI. Felt in San Miguel, Indian Valley and Ranchito Canyon. Intensity IV.
44	Mar. 14	09-23-55.4	36° 45!0	121° 15!7	2.7	b	9	15 km E of SAO.
18	Mar. 14	13-56-03.4	36° 37!5	121° 17!8	2.5	a	8	20 km SE of SAO.
24	Mar. 15	16-48-17.4	36° 49!8	121° 35!7	2.7	a	9	20 km W of Hollister.
45	Mar. 21	02-24-28.3	36° 12!7	120° 50!3	2.8	b	8	17 km NW of PRI.
*46	Mar. 22	14-59-26	41°2	124°9	4.2	OR	12	75 km NW of Arcata.
47	Mar. 23	11-39-56.4	36° 09!6	120° 10!5	3.0	d	5	20 km E of Coalinga.
48	Mar. 26	05-36-39.0	36° 46!4	121° 16!9	2.5	b	8	Near SAO.
*49	Mar. 28	12-23-56.5	37°3	118°3	3.9	OR	11	Near Bishop.
50	Apr. 05	15-44-53.7	37° 22!3	121° 43!2	2.5	a	9	Near MHC.
*51	Apr. 06	01-05-47	36°1	118°8	3.5	OR	10	100 km ESE of Tulare. Felt at Lindsay and Springfield. Max. intensity IV.
52	Apr. 08	00-30-27.5	37° 19!8	121° 41!7	2.9	b	17	SW of MHC.
*53	Apr. 10	03-21-37	40°8	125°5	3.7	OR	8	Off Cape Mendocino.
54	Apr. 13	09-06-42.5	36° 09!5	120° 48!6	2.7	b	8	13 km W of PRI.
*55	Apr. 13	18-11-40	38°3	118°3	3.8	OR	9	40 km SE of Hawthorne, Nev.
*56	Apr. 19	19-56-30	37°0	117°8	3.0	OR	7	50 km NE of Lone Pine.
*57	Apr. 20	22-27-43	36°8	117°4	3.6	OR	8	ENE of Lone Pine.
58	Apr. 21	17-04-21.6	36° 46!3	121° 14!4	2.7	a	8	17 km SE of Hollister.
59	Apr. 22	16-39-45.1	36° 36!9	121° 16!2	3.4	b	11	18 km SE of SAO. Felt at Paicines. Intensity IV.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
*60	Apr. 26	09-27-56	36°.9	118°.0	3.0	OR	6	N of Lone Pine.
61	Apr. 27	07-23-07.6	36° 45'.8	121° 32'.4	2.7	a	9	15 km SW of Hollister.
62	Apr. 28	02-36-15.0	37° 18'.1	122° 04'.9	2.8	a	9	15 km W of San Jose. Felt at Cupertino, Holy City and San Jose. Intensity IV.
*63	Apr. 28	12-57-41	37°.3	118°.6	4.0	OR	12	Near Bishop.
*64	May 03	02-46-37	40°.6	124°.9	3.4	OR	7	Off Cape Mendocino.
*	May 05	09-32-04	40°.5	127°.5	4.2	OR	8	Mendocino Escarpment.
65	May 15	23-19-09.4	36° 55'.6	121° 38'.1	2.6	a	9	10 km S of Gilroy.
*66	May 17	18-11-52	39°.3	119°.0	3.0	OR	6	Near Fallon, Nev.
67	May 17	14-16-52.2	35° 51'.2	120° 44'.2	3.0	a	6	30 km S of PRI.
*68	May 18	22-41-37	38°.8	117°.7	3.3	OR	5	About 85 km NE of Hawthorne, Nev.
*69	May 22	13-48-13.5	37°.2	117°.6	3.6	OR	6	80 km SE of Bishop.
*70	May 23	17-19-06	39°.3	117°.9	3.3	OR	6	E of Fallon, Nev.
*71	May 23	17-52-04	37°.3	116°.4	3.6	33R		USCGS location. Southern Nev.
*72	May 23	20-14-07	37°.2	116°.4	4.1	33R		USCGS location. Southern Nev.
73	May 24	08-36-47.2	36° 32'.6	121° 09'.7	2.5	a	9	20 km W of LLA.
73	May 24	12-51-30.7	36° 32'.7	121° 10'.4	2.6	a	6	20 km W of LLA.
73	May 25	05-21-42.6	36° 32'.0	121° 09'.1	2.8	a	9	20 km W of LLA.
*74	May 25	08-19-58	38°.9	124°.0	3.5	OR	14	Off coast of northern California.
*75	May 25	22-06-30	37°.1	117°.5	3.7	OR	6	NE of Lone Pine.
76	May 26	20-51-38.6	36° 53'.5	121° 18'.3	2.5	b	9	10 km NE of Hollister.
*56	May 29	13-20-18.3	37°.0	117°.8	3.2	10R	4	SE of Bishop.
77	May 30	03-47-28.4	37° 16'.4	121° 39'.8	3.9	b	13	Near MHC. Felt in Santa Clara and Santa Cruz counties. Maximum intensity IV.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
*78	May 30	18-28-12	38°.7	117°.3	3.5	0R	4	80 km S of Austin, Nev.
*79	June 03	03-30-46	38°.4	117°.3	3.3	0R	5	N of Tonopah, Nev.
*80	June 03	18-53-53	37°.4	118°.6	3.2	0R	7	20 km NW of Bishop.
81	June 03	20-10-53.0	35° 43'.5	121° 29'.4	2.6	10R	7	Off coast NW of San Simeon.
*	June 05	18-12-42	40°.2	127°.0	4.0	0R	10	Mendocino escarpment.
82	June 06	06-11-38.5	35° 48'.9	120° 25'.5	3.0	a	10	40 km SE of PRI.
* 1	June 07	07-31-18.7	37°.3	116°.5	3.5	0R		Felt in southern Monterey County, Vineyard Canyon and Indian Valley. Max. intensity IV. USCGS location.
83	June 11	12-55-48	38° 20'	122° 40'	2.6	0R	9	SE of Santa Rosa.
84	June 13	12-54-10.7	35° 48'.9	121° 30'.6	3.3	a	10	Off coast, 35 km NW of San Simeon.
*85	June 26	15-15-35	39°.3	123°.3	3.5	2R	9	Near Willits. Felt over an area of approximately 1,500 sq. miles of Mendocino and Lake counties. Max. intensity VI. Slight damage in the Redwood Valley-Ukiah area.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JANUARY 1 TO JUNE 30, 1967
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
GRANTS PASS
CRESCENT CITY
YREKA
ARC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
ORV
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
FALLON
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
AUSTIN
SONORA
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
TONOPAH
KING CITY
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
53
6
46
64
23
21
32
36
31
28
74
41
85
2
33
19
38
5
26
66
14
70
30
37
77
MHC
22
15
68
78
55
59
16
42
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25
11
80
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67
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82
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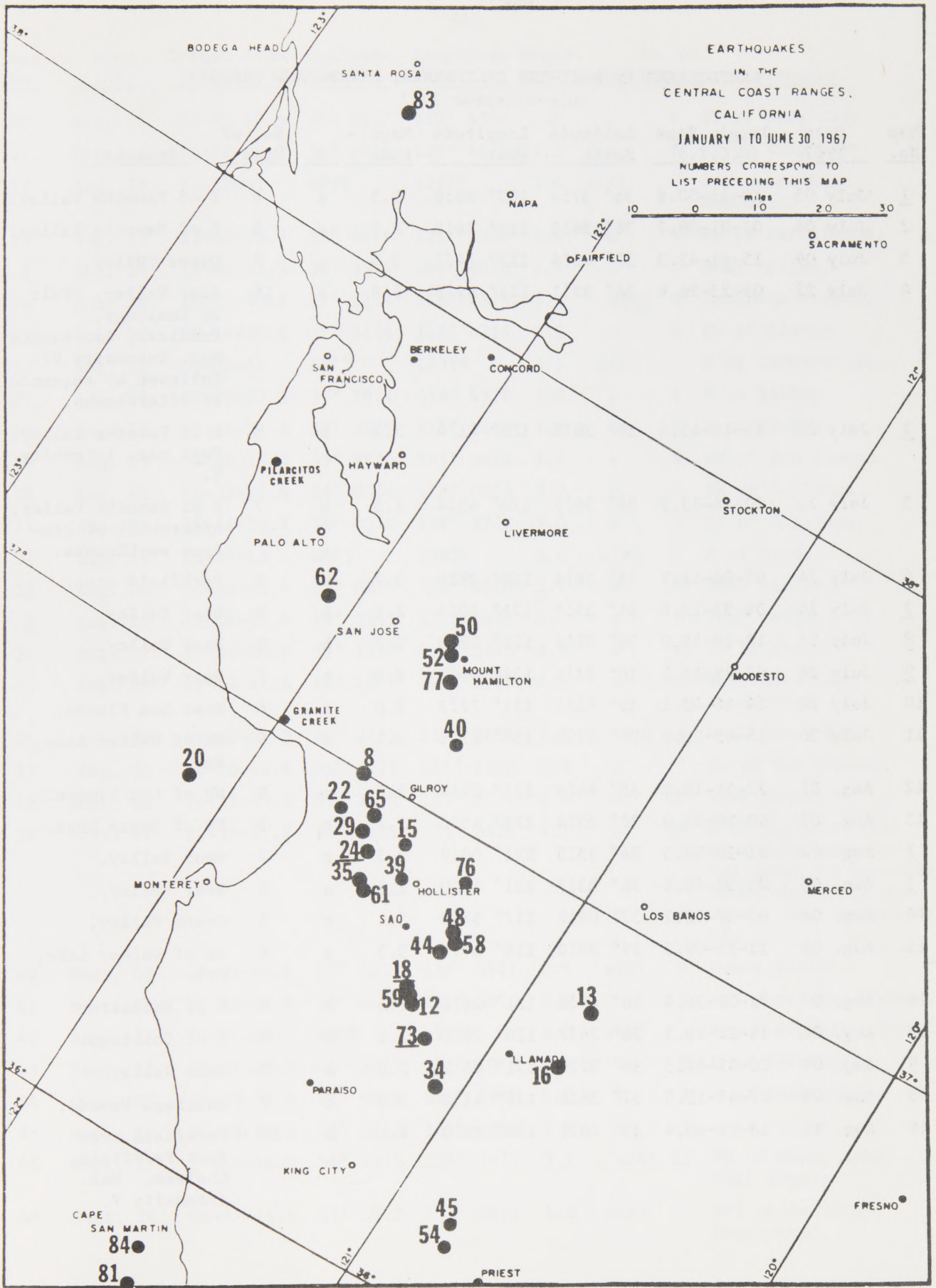
57


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JANUARY 1 TO JUNE 30, 1967
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
BODEGA HEAD
SANTA ROSA
NAPA
SACRAMENTO
FAIRFIELD
BERKELEY
CONCORD
SAN FRANCISCO
PILARCITOS CREEK
HAYWARD
STOCKTON
LIVERMORE
PALO ALTO
SAN JOSE
MOUNT HAMILTON
MODESTO
GRANITE CREEK
GILROY
MONTEREY
HOLLISTER
MERCED
LOS BANOS
SAO
PARAISO
LLANADA
KING CITY
CAPE SAN MARTIN
FRESNO
PRIEST
83
62
50
52
77
40
20
8
22
65
29
15
24
35
39
76
61
48
44
58
18
59
12
13
73
34
16
45
54
84
81
123°
122°
121°
120°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA AND OREGON
July-December 1967

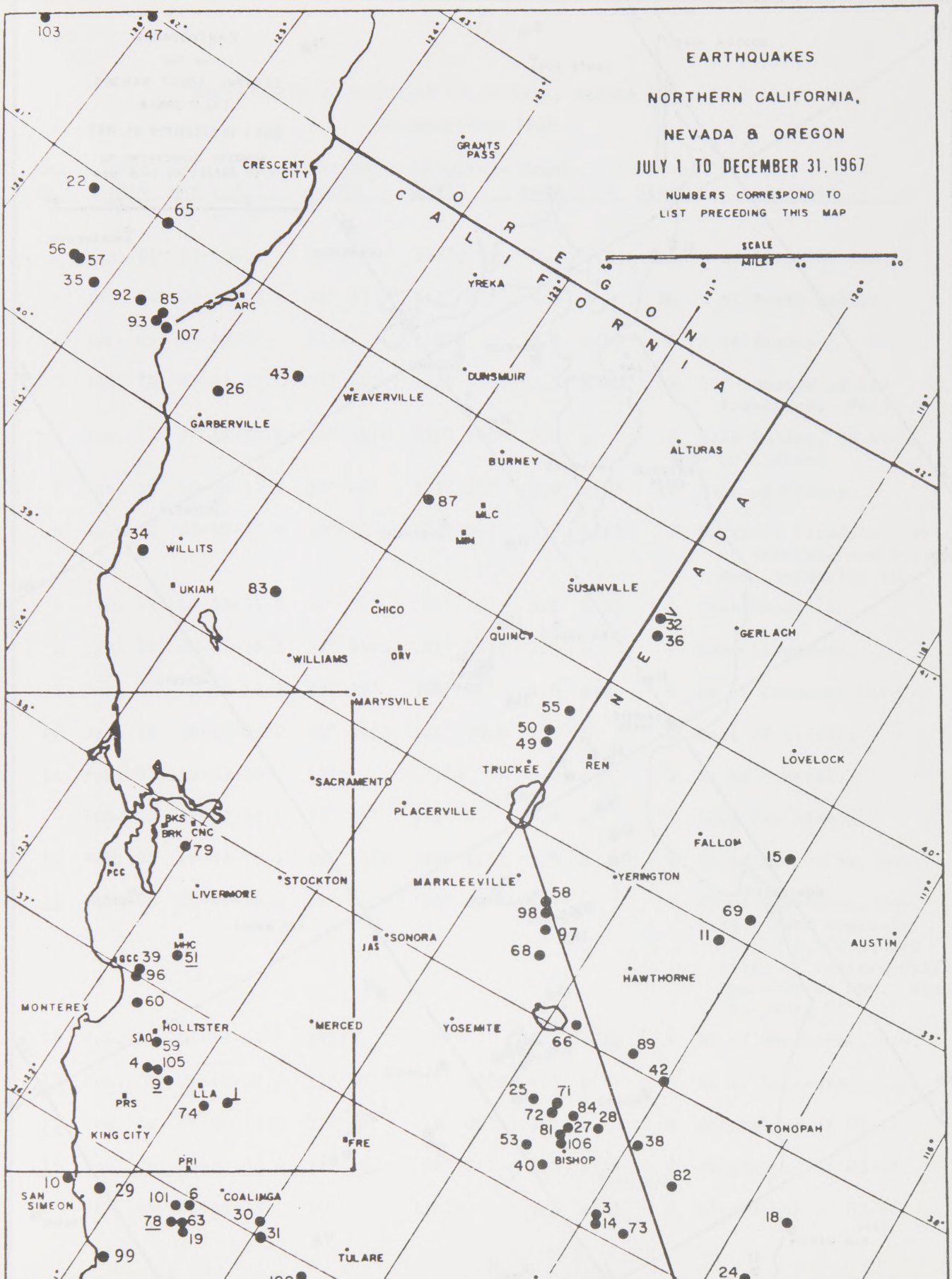
Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	July 05	10-43-00.6	36° 37!4	120° 40!8	2.5	a	6	E of Panoche Valley.
2	July 06	01-01-08.7	36° 36!5	120° 38!8	2.5	a	5	E of Panoche Valley.
3	July 09	15-41-42.3	37° 06!4	117° 54!7	3.5	c	5	Owens Valley.
4	July 22	09-23-26.6	36° 32!1	121° 09!8	3.8	a	16	Bear Valley. Felt at Coalinga, Paicines, San Benito. Max. intensity VI. Followed by sequence of aftershocks.
1	July 23	15-16-43.6	36° 36!8	120° 41!4	3.3	b	5	E of Panoche Valley. Felt max. intensity V.
5	July 23	22-26-23.7	36° 36!5	120° 43!4	2.5	b	7	E of Panoche Valley. Aftershock of previous earthquake.
6	July 24	07-08-52.9	35° 58!4	120° 29!8	3.7	b	9	Parkfield area.
7	July 24	08-37-12.8	36° 33!8	121° 10!4	2.6	b	8	Bear Valley.
8	July 24	10-19-55.0	36° 32!3	121° 08!3	2.7	b	9	Bear Valley.
9	July 26	07-29-16.1	36° 33!1	121° 08!9	2.5	b	7	Bear Valley.
10	July 28	14-44-40.1	35° 45!3	121° 22!7	3.0	a	6	Near San Simeon.
11	July 30	15-45-08.0	38° 57!2	118° 11!8	3.1	c	6	NE of Walker Lake, Nev.
12	Aug. 01	22-14-18.0	35° 44!9	121° 24!4	2.7	a	6	NW of San Simeon.
13	Aug. 02	00-10-35.0	38° 30!4	122° 45!6	2.8	c	6	NW of Santa Rosa.
7	Aug. 02	01-10-52.5	36° 33!5	121° 09!9	2.5	a	7	Bear Valley.
7	Aug. 03	05-33-40.6	36° 33!7	121° 10!0	2.5	a	6	Bear Valley.
14	Aug. 06	07-27-52.2	37° 04!2	117° 52!8	3.1	c	5	Owens Valley.
15	Aug. 06	11-15-00.9	39° 35!8	118° 04!6	3.3	a	6	NE of Walker Lake, Nev.
16	Aug. 07	21-07-36.4	36° 44!8	121° 28!6	2.5	b	9	S of Hollister
17	Aug. 08	16-11-28.3	36° 24!7	120° 25!0	2.5	a	7	N of Coalinga.
9	Aug. 08	20-01-44.5	36° 32!8	121° 08!7	2.6	a	7	Bear Valley
18	Aug. 09	06-45-13.5	37° 36!6	116° 41!8	3.8	c	7	Southern Nevada.
19	Aug. 12	18-57-40.4	35° 48!1	120° 26!8	4.1	b	18	Parkfield area. Felt Parkfield, Cholame. Max. intensity V.

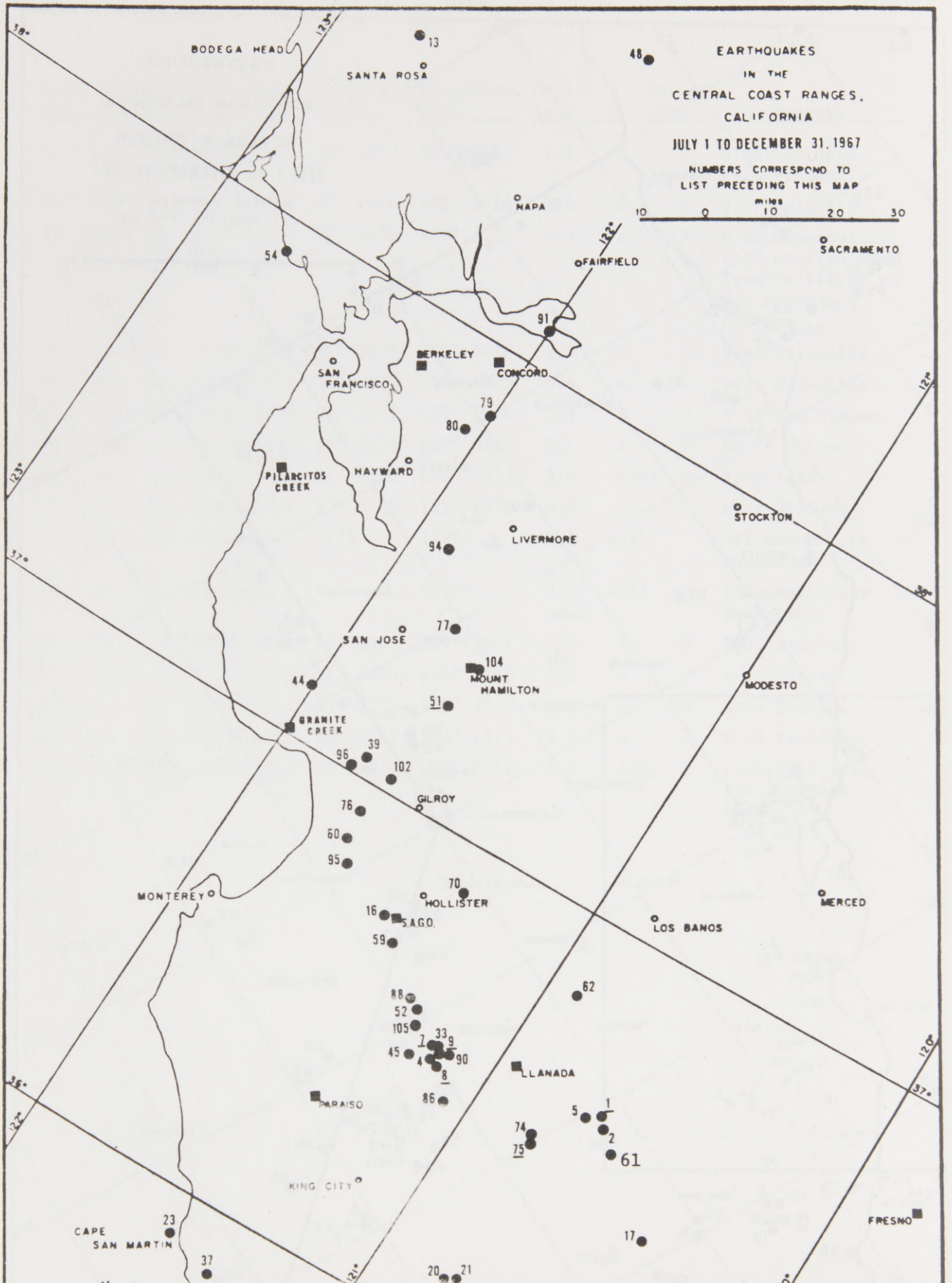
Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
20	Aug. 12	23-21-07.8	36° 06!7	120° 47!8	2.8	a	6	SE of King City.
21	Aug. 12	23-22-05.3	36° 08!3	120° 46!5	2.5	a	7	SE of King City.
22	Aug. 13	11-52-42	40°.9	125°.5	3.4	a(R)		Off shore Cape Mendocino.
23	Aug. 17	23-12-02.7	35° 54!4	121° 29!6	2.6	a	5	NW of San Simeon.
9	Aug. 18	18-48-10.9	36° 33!4	121° 09!3	2.7	a	8	Bear Valley.
24	Aug. 18	20-12-40.2	37° 11!4	116° 46!3	4.4	a(R)	9	Southern Nevada.
25	Aug. 20	06-14-06.4	37° 31!6	118° 47!5	3.1	a	6	NW of Bishop.
26	Aug. 22	08-03-54	40°.3	123°.8	3.1	a(R)		N of Garberville.
27	Aug. 22	08-19-27.3	37° 29!1	118° 23!8	3.0	a	6	N of Bishop.
28	Aug. 23	23-10-27.4	37° 36!8	118° 16!7	3.4	a	9	N of Bishop.
29	Aug. 25	02-28-14.4	35° 48!6	121° 16!4	2.7	a	6	NW of San Simeon.
30	Aug. 25	16-35-27.8	36° 03!4	120° 00!3	3.2	c	7	SE of Coalinga.
31	Aug. 25	16-46-50.2	36° 01!4	119° 57!3	3.0	b	7	SE of Coalinga.
32	Aug. 26	03-57-13	40°.5	119°.9	3.0	a(R)		N of Reno.
33	Aug. 26	10-35-06.4	36° 33!5	121° 09!0	2.6	a	6	Bear Valley.
8	Aug. 27	18-09-11.0	36° 32!3	121° 08!1	2.7	a	6	Bear Valley.
34	Aug. 27	23-02-35.9	39° 13!8	123° 33!5	3.4	b	6	NW of Ukiah.
35	Aug. 29	17-14-17.6	40° 26!7	125° 03!9	4.1	a	6	Off shore Cape Mendocino.
36	Aug. 29	19-40-05.3	40° 22!5	119° 48!5	3.5	b(R)	6	N of Reno, Nev.
37	Aug. 31	18-10-40.4	35° 52!3	121° 21!3	2.8	a	7	NW of San Simeon.
38	Sept. 02	20-25-43.3	37° 34!7	117° 57!7	3.8	a	12	Near Oasis.
39	Sept. 07	12-39-17.2	37° 02!1	121° 46!6	4.7	b	18	W of Gilroy. Felt over wide area from Hollister to Berkeley. Minor damage in San Jose. Max. intensity VI.
40	Sept. 08	05-39-52.4	37° 11!7	118° 28!1	2.9	a(R)	9	Owens Valley.
41	Sept. 09	21-35-05.6	35° 41!1	121° 38!6	2.4	a(R)	3	Off shore San Simeon.
42	Sept. 11	05-05-33	38°.0	118°.0	3.0	a(R)		Mt. Montgomery, Nevada.
43	Sept. 11	18-57-28.5	40° 38!7	123° 20!5	3.5	a	6	E of Ferndale.
44	Sept. 12	18-33-32.8	37° 06!9	121° 59!8	2.6	b	9	N of Santa Cruz.
45	Sept. 14	16-38-29.1	36° 31!2	121° 12!8	2.6	b	7	Bear Valley.
46	Sept. 21	17-00-09.0	36° 13!8	118° 16!3	3.3	a(R)	12	SW of Owens Lake. Felt Fresno.
47	Sept. 26	05-51-14.5	41° 59!2	125° 59!2	4.3	c(R)		Off shore Cape Mendocino.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
48	Sept. 27	02-41-23.9	38° 44!3	122° 10!7	2.6	a(R)	5	W of Woodland.
49	Sept. 27	05-32-25.1	39° 29!7	120° 09!6	3.5	b	8	Near Truckee. Felt. Max. intensity IV.
50	Sept. 28	02-51-54.7	39° 32!9	120° 11!7	3.7	a	9	Near Truckee. Felt in Truckee and Reno. Max. intensity V.
51	Sept. 28	15-38-36.1	37° 13!8	121° 37!2	4.9	b	15	SE of San Jose. Felt over wide area. Damage at San Jose. Max. intensity VI.
52	Sept. 28	18-33-27.0	36° 36!7	121° 14!6	2.5	a	7	Bear Valley.
51	Sept. 28	21-08-11.6	37° 13!6	121° 37!2	3.5	b	12	SE of San Jose. Felt. Max. intensity IV. Aftershock of Sept. 28, 15-38-36.
53	Oct. 02	09-44-33.7	37° 16!4	118° 37!6	3.1	a	7	W of Bishop.
54	Oct. 02	16-16-11.0	37° 54!6	122° 45!4	2.8	a(R)	8	W of Mill Valley.
55	Oct. 05	15-30-52.0	39° 44!9	120° 07!9	3.0	b	6	NW of Reno.
56	Oct. 08	07-00-14	40°5	125°3	3.7	a(R)		Off shore Cape Mendocino.
57	Oct. 09	08-13-34	40°5	125°3	3.6	a(R)		Off shore Cape Mendocino.
58	Oct. 09	17-01-12.5	38° 38!7	119° 27!7	3.3	b(R)	6	Near Coleville.
59	Oct. 10	02-37-38.7	36° 43!2	121° 25!0	3.2	a	9	S of Hollister. Felt Hollister.
60	Oct. 11	18-35-47.1	36° 52!1	121° 40!9	3.0	a	11	Near Watsonville.
61	Oct. 14	12-02-43.6	36° 30!1	120° 36!9	2.7	b	5	Near Mt. Ciervo.
62	Oct. 18	22-52-56.8	36° 49!1	120° 54!7	2.5	a	6	E of Hollister.
63	Oct. 21	12-05-21.8	35° 49!7	120° 28!4	3.1	b	7	Parkfield area.
64	Oct. 25	23-05-39.5	35° 43!8	121° 26!9	2.6	a	4	Near San Simeon.
65	Oct. 31	04-11-40	41°0	124°9	3.7	a(R)		Off shore Cape Mendocino.
66	Nov. 02	17-56-30.9	38° 04!0	118° 47!8	3.0	a	6	Near Mono Lake
68	Nov. 06	07-22-46.2	38° 20!2	119° 19!9	3.4	a	11	NW of Mono Lake. Felt in Coleville and near Bridgeport.
69	Nov. 07	03-44-34.5	39° 08!1	118° 05!6	3.1	a	5	Near Walker Lake, Nev.
70	Nov. 09	07-41-35.1	36° 53!3	121° 18!9	2.5	a	9	NE of Hollister.
71	Nov. 11	05-44-22.1	37° 35!9	118° 36!2	3.1	a	7	NW of Bishop.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
72	Nov. 11	05-51-51.7	37° 32!5	118° 35!8	3.4	a	9	NW of Bishop.
73	Nov. 11	14-24-26.4	37° 04!4	117° 41!9	3.3	b	6	N of Lone Pine.
74	Nov. 11	22-10-06.8	36° 29!9	120° 49!1	3.3	a	9	S of Panoche Valley.
75	Nov. 11	22-33-47.5	36° 29!0	120° 47!5	2.8	b	6	S of Panoche Valley.
76	Nov. 12	06-27-34.8	36° 55!7	121° 42!3	2.7	b	10	Near Watsonville.
75	Nov. 12	07-11-20.4	36° 29!4	120° 48!3	2.6	b	7	S of Panoche Valley.
77	Nov. 12	17-02-24.0	37° 24!2	121° 44!6	2.6	a	10	NE of San Jose.
78	Nov. 14	00-00-51.7	35° 47!2	120° 32!4	3.1	b(R)	3	Parkfield.
79	Nov. 18	18-00-58.1	37° 50!6	122° 00!4	3.2	a	9	Near Danville. Felt Oakland and Palo Alto. Slight damage Alamo.
80	Nov. 18	18-13-02.6	37° 48!5	122° 01!7	2.5	a	10	Near Danville. Aftershock.
81	Nov. 21	05-30-22.6	37° 25!7	118° 26!9	4.2	a	10	Near Bishop. Felt near Bishop.
82	Nov. 21	17-25-12.9	37° 28!9	117° 33!5	3.3	a	6	SW of Tonopah, Nev.
83	Nov. 24	15-12-13.6	39° 26!7	122° 30!7	3.6	a	6	NW of Lodoga.
84	Nov. 24	19-13-09.7	37° 34!7	118° 27!4	3.2	a	4	N of Bishop.
85	Nov. 25	02-46-56	40°5	124°5	3.4	a(R)		Off shore Cape Mendocino.
7	Nov. 25	13-09-56.9	36° 34!0	121° 10!4	2.6	a	8	Bear Valley.
86	Nov. 25	15-27-43.4	36° 28!3	121° 04!4	2.5	a	6	Bear Valley.
87	Nov. 29	02-55-02.9	40° 24!4	121° 57!5	3.1	a	5	SW of Lassen.
7	Nov. 29	05-44-08.1	36° 34!0	121° 10!3	2.7	b	8	Bear Valley.
9	Dec. 03	20-54-27.1	36° 33!0	121° 09!3	3.0	a	8	Bear Valley.
7	Dec. 04	22-10-37.2	36° 33!6	121° 10!9	2.5	a	5	Bear Valley.
88	Dec. 05	04-11-33.9	36° 37!8	121° 17!2	2.5	a	5	Bear Valley.
89	Dec. 05	18-28-54.5	38° 04!2	118° 20!1	3.5	a	9	Near Mt. Montgomery, Nev.
90	Dec. 06	10-05-56.2	36° 33!9	121° 07.3	2.8	b	8	Bear Valley.
91	Dec. 08	12-42-09.6	38° 04!6	122° 00!1	2.5	a	5	N of Concord.
92	Dec. 10	12-06-52.2	40° 29!5	124° 41!6	5.6	b	6	Off shore Cape Mendocino. Felt Eureka, Ferndale, Willow Creek.
93	Dec. 10	12-33-59.9	40° 26!0	124° 29!5	4.0	c	4	Off shore Cape Mendocino.

Map No.	Date 1967	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
94	Dec. 14	18-54-35.3	37° 33!0	121° 54!4	2.6	a	7	N of San Jose. Felt Fremont.
95	Dec. 17	10-04-28.2	36° 49!2	121° 38!8	2.5	b	8	W of Hollister.
96	Dec. 18	17-24-32.0	37° 00!6	121° 47!3	5.3	c	17	N of Watsonville. Felt over an area from Hollister to San Francisco. Damage.
97	Dec. 20	01-49-13.9	38° 30!0	119° 30!6	2.8	a	9	Near Coleville.
98	Dec. 20	02-27-27.1	38° 35!0	119° 28!5	3.4	a	9	Near Coleville.
99	Dec. 21	05-13-11.3	35° 22!1	120° 50!6	2.6	a	3	S of San Simeon.
100	Dec. 21	19-08-53.3	35° 55!1	119° 31!7	3.1	c	5	NW of Delano.
101	Dec. 21	23-58-30.2	35° 55!8	120° 34!1	3.0	b(R)	3	Parkfield.
102	Dec. 25	00-27-01.1	37° 02!2	121° 39!5	2.5	c	7	Near Gilroy.
	Dec. 26	10-11-28	41°5	127°5	3.4	a(R)		Off shore Cape Mendocino.
103	Dec. 27	14-04-03	41°6	126°7	3.6	a(R)	7	Off shore Cape Mendocino.
104	Dec. 27	16-00-38.2	37° 20!1	121° 38!1	2.5	a	5	E of San Jose.
105	Dec. 28	20-25-36.5	36° 34!9	121° 13!5	3.2	a	7	Bear Valley.
106	Dec. 29	22-17-09.4	37° 22!4	118° 25!7	3.3	a	6	Near Bishop.
107	Dec. 30	08-04-41.1	40° 26!4	124° 22!4	4.5	a	4	S of Ferndale.
78	Dec. 31	23-48-13.5	35° 45!3	120° 26!8	4.3	b(R)	3	Parkfield area. Felt at Paso Robles.


EARTHQUAKES
NORTHERN CALIFORNIA,
NEVADA & OREGON
JULY 1 TO DECEMBER 31, 1967
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
ARC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
MLC
MPH
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
ORV
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
BKS
BRK
CNC
PCC
STOCKTON
LIVERMORE
MARKLEEVILLE
YERINGTON
FALLOM
AUSTIN
MHC
JAS
SONORA
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
SAO
PRS
LLA
KING CITY
FRE
PRI
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE


EARTHQUAKES
IN THE
CENTRAL COAST RANGES,
CALIFORNIA
JULY 1 TO DECEMBER 31, 1967
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
miles
10 0 10 20 30
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BERKELEY
CONCORD
PILARCITOS CREEK
HAYWARD
LIVERMORE
STOCKTON
SAN JOSE
MOUNT HAMILTON
MODESTO
GRANITE CREEK
GILROY
MONTEREY
HOLLISTER
SAGO.
LOS BANOS
MERCED
LLANADA
PARAISO
KING CITY
CAPE SAN MARTIN
FRESNO
39°
38°
37°
36°
123°
122°
121°
120°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA AND OREGON

January-June 1968

Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jan. 01	09-28-05	38°.0	118°.0	3.2	a(R)	6	W of Tonopah, Nev.
-	Jan. 04	09-45-43.1	36° 27'	117° 07'	4.0	a	10	W of Death Valley.
2	Jan. 05	08-40-32	37°.7	118°.6	3.4	2(R)	8	N of Bishop
3	Jan. 10	07-51-22.3	37° 46'.9	122° 35'.3	2.5	a	5	Off coast W of San Francisco. Felt.
4	Jan. 12	22-19-10.8	36° 38'.0	121° 16'.6	3.0	a	7	Bear Valley, SE of Hollister.
5	Jan. 19	13-29-17.9	37° 06'	121° 15'	2.8	a(R)	11	East of Gilroy.
6	Jan. 20	03-50-57.8	40° 23'	124° 09'	3.8	b(R)	5	South of Ferndale. Felt at Ferndale and Scotia. Max. intensity IV.
7	Jan. 22	14-53-34.5	40° 24'	124° 16'	3.5	b(R)	5	Cape Mendocino.
8	Jan. 24	20-47-28.1	37° 45'.3	121° 53'.2	2.5	b	7	Near Livermore.
9	Jan. 25	21-50-13.3	41° 25'	124° 47'	4.0	a(R)	6	SW of Crescent City.
10	Jan. 26	16-15-06.2	36° 59'.3	121° 25'.0	2.5	b	6	East of Gilroy.
11	Feb. 03	12-53-30	40°.5	121°.2	3.0	a(R)	5	NE of Mineral.
--	Feb. 03	19-07-26.4	35° 44'	121° 15'	2.8	a	5	Near San Simeon.
12	Feb. 04	19-52-18.4	38° 13'.8	118° 16'.1	3.5	b	6	SE of Hawthorne, Nev.
13	Feb. 06	00-41-38.0	38° 01'	118° 21'	4.9	c	10	SE of Hawthorne, Nev. Felt over approximately 8,000 square miles of eastern Calif. and western Nev. Max. intensity VI.
14	Feb. 06	01-19-16	38°.1	118°.4	3.7	b(R)	7	SE of Hawthorne, Nev.
13	Feb. 06	03-48-10.8	38° 00'.2	118° 22'.0	4.5	b	8	SE of Hawthorne, Nev.
15	Feb. 06	04-00-10.0	37° 59'	118° 09'	3.1	a	8	Aftershock of 03-48.
16	Feb. 06	04-32-50.6	37° 58'	118° 21'	3.5	a(R)	8	Aftershock of 03-48.
17	Feb. 06	06-25-35	38°.1	118°.3	3.1	a(R)	8	Aftershock of 03-48.

Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
18	Feb. 06	22-21-45	40°.5	124°.0	3.5	a(R)	4	SE of Ferndale. Felt.
16	Feb. 06	22-26-29.0	37° 59'	118° 18'	3.0	a(R)	8	Aftershock of 03-48.
15	Feb. 08	09-22-51	38°.0	118°.2	3.2	c	7	Aftershock of 03-48, Feb. 06.
19	Feb. 09	13-42-36.8	37° 10'.0	121° 33'.0	3.0	b	7	North of Gilroy.
20	Feb. 11	10-26-13.6	37° 00'.8	121° 28'.5	2.8	b	7	East of Gilroy.
--	Feb. 12	08-53-26	41°.1	117°.4	4.0	c(R)	7	East of Winnemucca, Nev.
21	Feb. 14	03-31-09.4	36° 36'.3	121° 14'.7	2.5	a	7	Bear Valley.
22	Feb. 15	11-04-44.7	36° 31'.5	121° 11'.2	2.8	a	5	Bear Valley.
23	Feb. 15	13-34-29.5	38° 05'	118° 20'	3.1	b	7	SE of Hawthorne, Nev.
24	Feb. 16	06-15-34.7	36° 33'.5	121° 11'.9	2.5	a(R)	8	Bear Valley.
25	Feb. 16	16-35-23.2	36° 43'.4	120° 56'.3	2.8	b	7	North of Llanada.
26	Feb. 19	20-14-49	41°.0	123°.3	4.1	a	5	East of Arcata.
* 27	Feb. 21	14-39-48.0	37° 11'.0	121° 33'.7	3.8	b	10	Near Morgan Hill. Felt at Corralitos, Morgan Hill, San Martin, Gilroy, Hollister and Mountain View. Max. intensity V.
28	Feb. 23	20-20-59.8	36° 51'.5	121° 18'.6	2.5	b	7	East of Hollister.
29	Feb. 25	12-39-16	40°.1	121°.0	3.1	a	6	Near Quincy. Felt.
30	Feb. 26	02-51-27	40°.0	121°.1	3.7	a(R)	6	Near Quincy. Felt.
31	Mar. 01	08-33-14.9	39° 39'	118° 26'	3.4	a(R)	7	NE of Fallon, Nev.
32	Mar. 03	21-10-27	38°.6	116°.1	3.8	a(R)	6	South of Eureka, Nev.
33	Mar. 06	08-33-01	37°.1	117°.9	3.2	a(R)	7	SE of Bishop.
34	Mar. 06	08-43-08.9	37° 00'	117° 50'	3.3	a(R)	6	SE of Bishop.
35	Mar. 06	09-14-06.0	36° 58'	122° 10'	2.5	b	7	Offshore, near Santa Cruz. Felt in Santa Cruz.
36	Mar. 09	01-31-53.0	37° 37'	118° 41'	3.0	a(R)	5	NW of Bishop.
37	Mar. 11	23-18-36.2	37° 28'	121° 33'	3.2	a(R)	9	SE of Livermore.
*81	Feb. 21	08-16-18.1	38°.6	116°.3	4.1	33(R)	-	Central Nev. USCGS location.

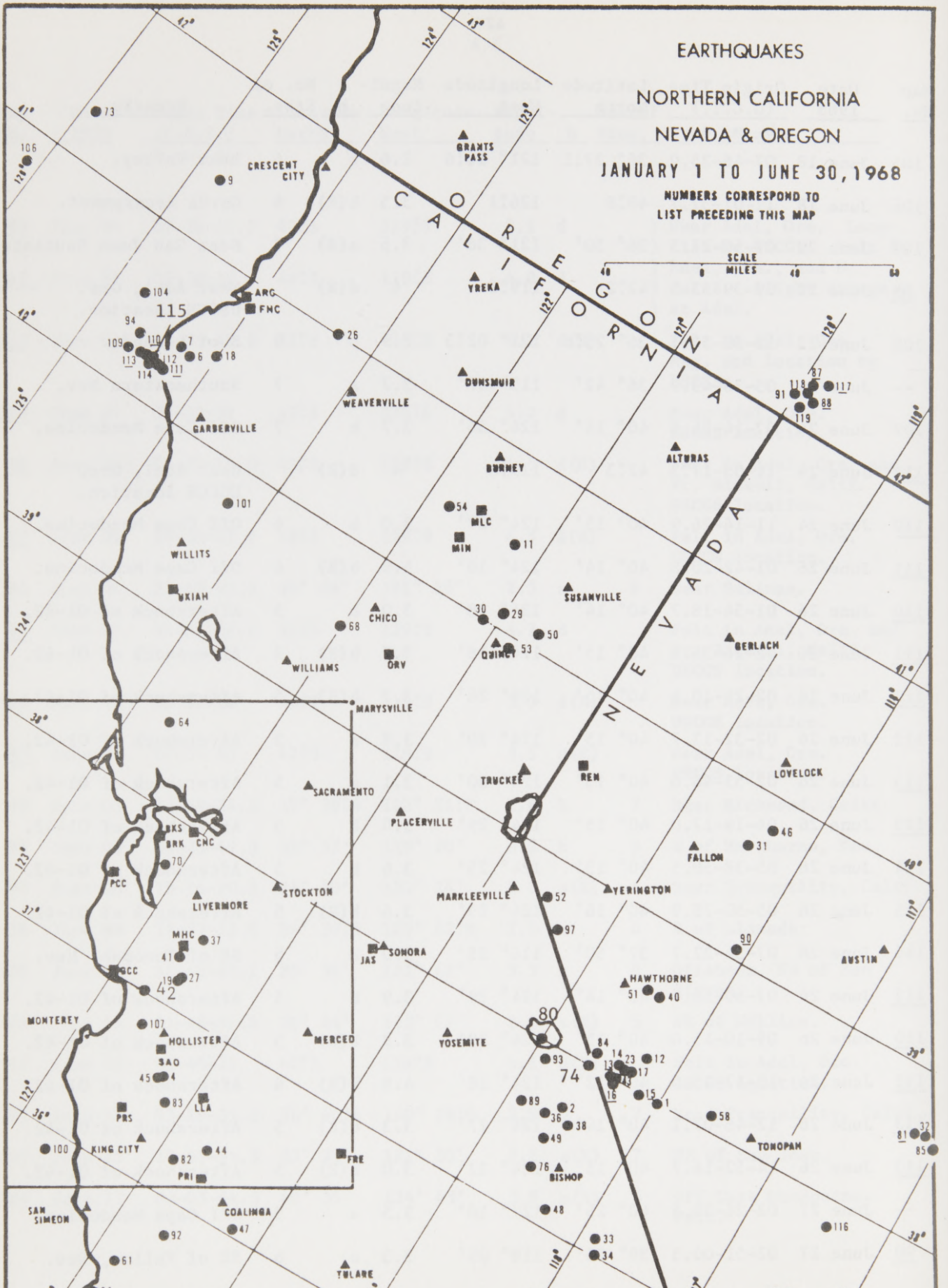
Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
38	Mar. 14	14-06-08	37°.6	118°.5	3.1	a(R)	5	N of Bishop.
39	Mar. 16	22-25-17.3	36° 53'.0	121° 38'.2	2.6	a	6	W of Hollister.
40	Mar. 17	04-19-51	38'.6	118'.4	3.0	a(R)	7	E of Hawthorne, Nev.
41	Mar. 17	15-07-02.7	37° 19'	121° 38'	3.0	a(R)	8	Near Mt. Hamilton.
42	Mar. 21	21-55-00.3	37° 01'.4	121° 44'.7	4.3	c	7	Near Watsonville. Felt over approximately 3,500 square miles, from Salinas to San Francisco. Maximum intensity V. No reported damage.
--	Mar. 24	08-45-45.1	41° 10'	117° 23'	4.1	b	7	Northern Nevada.
43	Mar. 24	11-56-04	38°.0	118°.4	3.6	b(R)	7	SE of Hawthorne, Nev.
44	Mar. 25	11-32-07.4	36° 22'.1	120° 41'.8	3.6	c	8	SE of Llanada. Felt. Max. intensity V.
45	Mar. 25	16-25-55.4	36° 37'.6	121° 17'.1	3.5	a	11	Bear Valley. Max. intensity IV.
46	Mar. 27	19-47-27	39°.8	118°.3	3.3	a(R)	5	NE of Fallon, Nev.
47	Mar. 28	04-53-26.5	36° 03'.4	120° 11'.4	3.1	d	5	SE of Coalinga. Felt at Avenal. Intensity IV.
48	Mar. 29	01-59-48	37°.1	118°.3	3.0	a(R)	6	S of Bishop.
49	Apr. 01	09-13-05.4	37°.5	118°.6	3.0	b	6	NW of Bishop.
50	Apr. 02	16-15-15	40°.1	120°.7	3.2	a(R)	6	NE of Quincy. Felt in Crescent Mills. Max. intensity II.
51	Apr. 03	20-04-13	38°.6	118°.5	3.1	b	7	E of Hawthorne, Nev.
52	Apr. 04	06-24-50.6	38° 47'	119° 33'	3.4	a(R)	9	SE of Lake Tahoe.
53	Apr. 04	21-08-57.3	39° 57'	120° 49'	3.2	a(R)	7	E of Quincy. Felt in Quincy. Intensity II.
54	Apr. 07	02-40-40	40°.5	121°.8	3.5	a(R)	5	NW of Mineral.
55	Apr. 10	04-18-59.8	37° 23'.0	121° 44'.5	2.6	b	7	NW of Mt. Hamilton.
56	Apr. 10	04-22-24.9	37° 41'.0	122° 36'.8	2.6	a	10	Offshore San Francisco Peninsula. Felt in Daly City.
56	Apr. 10	07-37-17.1	37° 41'.3	122° 36'.5	2.5	a	6	Aftershock of 04-22.

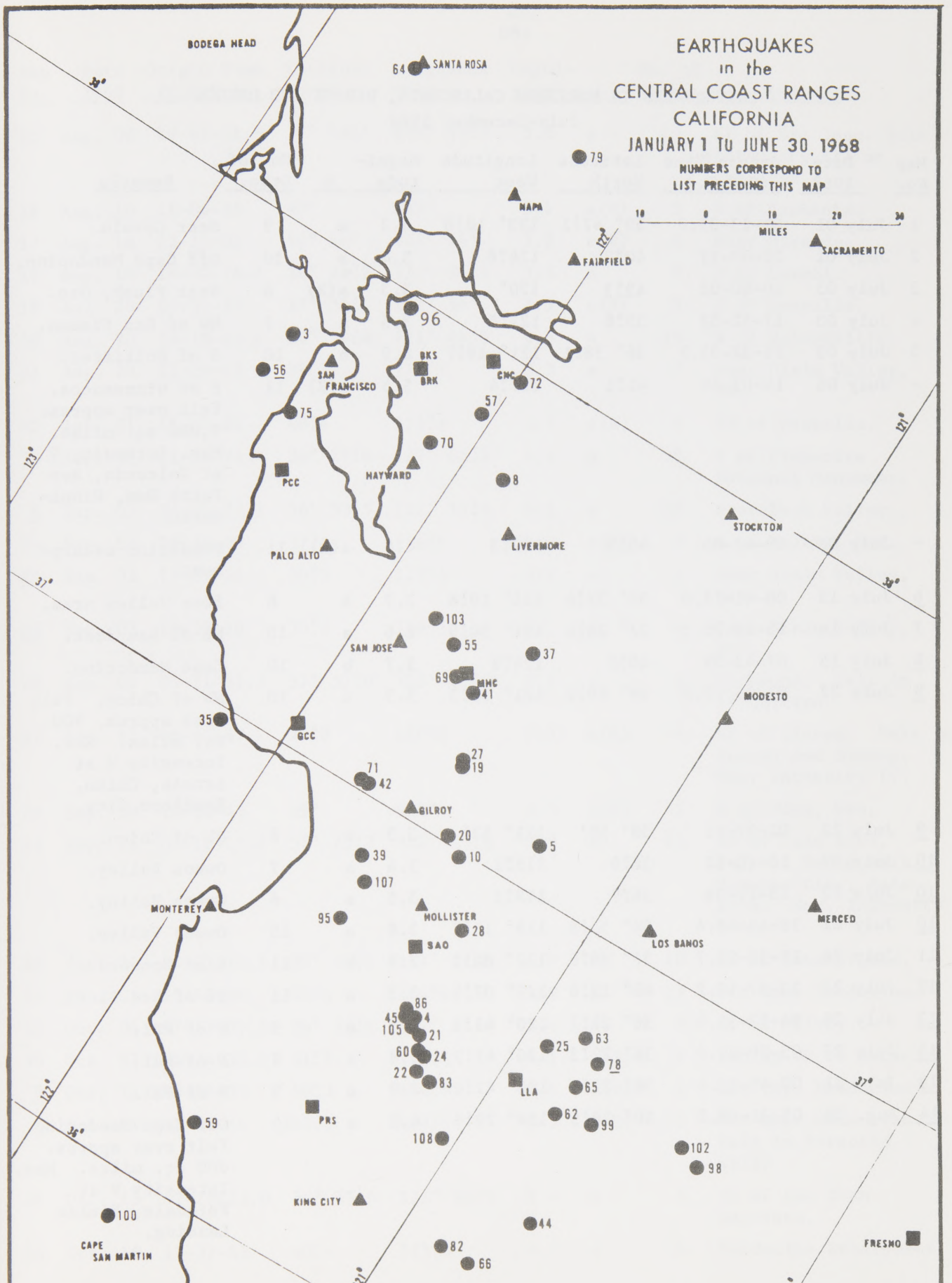
Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
57	Apr. 12	22-18-31.6	37° 51!4	122° 01!2	2.5	a	6	NE of Hayward.
58	Apr. 13	18-10-50	38°1	117°6	3.7	a(R)	9	W of Tonopah, Nev.
59	Apr. 14	06-20-54.6	36° 10!9	121° 39!2	2.5	b	6	SE of Monterey.
60	Apr. 19	13-44-33.9	36° 34!7	121° 12!9	2.8	a	7	Bear Valley.
61	Apr. 23	15-09-14.9	35° 31!4	120° 49!4	3.4	a	7	SE of San Simeon.
62	Apr. 23	23-10-27.9	36° 36'	120° 49'	2.7	a(R)	6	E of Llanada.
63	Apr. 25	03-28-06.9	36° 47'	120° 51'	2.5	a(R)	5	NE of Llanada.
64	Apr. 25	19-49-45.2	38° 28!6	122° 43!5	4.6	b	10	Near Santa Rosa. Felt over approximately 5,000 square miles. Max. intensity VII at Santa Rosa - minor damage. (Fault plane solution in BSSA, Dec. 1968.)
65	Apr. 26	01-00-00.1	36° 41'	120° 48'	2.9	b	5	E of Llanada.
66	Apr. 27	14-32-37.4	36° 13'	120° 50'	2.7	c(R)	7	NW of Priest.
67	Apr. 28	06-31-52.9	35° 27!3	120° 49!7	3.5	b	7	NW of San Luis Obispo.
68	Apr. 29	00-21-38.6	39° 32!4	122° 01!4	4.7	d	9	SW of Chico. Felt over approximately 10,500 square miles. Max. intensity VI at Chico, Butte City, Willows. Minor damage.
69	Apr. 29	23-47-20.0	37° 20!4	121° 41!9	2.5	a	6	Near Mt. Hamilton.
70	May 03	21-39-57.2	37° 44!4	122° 07!8	3.2	b	18	NE of Hayward. Intensity IV at Castro Valley, II at Hayward. (Fault plane solution in BSSA, Dec. 1968.)
71	May 06	11-21-30.8	37° 01!1	121° 45!9	2.5	a	8	Near Corralitos.
72	May 09	14-28-50.4	37° 57!9	121° 59!6	2.7	b	7	E of Concord.
73	May 09	23-27-43	41°3	125°9	4.4	a(R)	8	Gorda Basin.
74	May 11	18-26-39	38°0	118°6	3.2	b	7	S of Hawthorne, Nev.
75	May 12	04-11-48.3	37° 37!8	122° 28!8	2.5	b	14	Near San Bruno. Felt in northern San Francisco Peninsula. (Fault plane solution in BSSA, Dec.

Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
76	May 14	05-30-03.6	37° 17'	118° 34'	3.4	a(R)	5	Near Bishop.
77	May 15	16-01-12	37°.2	116°.5	3.9	a(R)	5	SE of Tonopah, Nev.
--	May 16	12-26-52	40°.5	126°.8	3.5	a(R)	5	Mendocino escarpment.
78	May 16	14-16-49.9	36° 45'	120° 46'	2.7	a(R)	7	NE of Llanada.
79	May 17	00-47-32.0	38° 27'	122° 11'	2.9	a(R)	10	NE of Napa.
78	May 19	14-02-49.5	36° 45'	120° 47'	2.6	a(R)	6	NE of Llanada.
80	May 22	08-55-15	38°.0	119°.0	3.4	a(R)	6	Mono Lake.
81	May 22	13-21-55.7	38°.6	116°.2	5.1	c		USCGS Hypocenter. Berkeley magnitude 4.9.
82$	May 22	22-18-37.5	36° 13'.6	120° 52'.6	3.1	b	7	NW of Priest.
83	May 24	16-03-13.1	36° 31'.5	121° 08'.5	3.0	a	6	Bear Valley.
84	May 25	02-11-55.0	38°.1	118°.6	3.6	c(R)	7	S of Hawthorne, Nev.
85	May 25	08-01-22	38°.6	116°.0	3.8	c(R)	6	S of Eureka, Nev.
86	May 25	17-16-49.1	36° 38'.4	121° 18'.8	2.6	a	7	Bear Valley.
87	May 28	00-08-49.5	42° 16'	119° 55'	3.7	d	7	Near Adel, Oregon.
87	May 28	00-51-03.5	42° 14'	119° 54'	3.4	c(R)	7	Near Adel, Oregon.
88	May 28	12-55-44.4	42° 10'	119° 50'	3.9	c(R)	7	Near Adel, Oregon.
--	May 28	13-14-17.5	38° 30'	123° 14'	2.5	c	6	Near Fort Ross.
89	May 29	06-16-07	37°.6	118°.9	3.0	a(R)	5	NW of Bishop.
90	May 29	11-41-07.1	39° 04'	118° 03'	4.9	a(R)	5	SE of Fallon, Nev.
91	May 30	00-36-01.0	42° 10'	120° 00'	5.1	c(R)	5	Near Adel, Oregon. Felt.
--	May 30	08-02-10	40°.3	126°.9	4.2	a(R)	6	250 km W of Ferndale.
92	May 31	07-07-37.9	35° 48'	120° 36'	3.0	a(R)	5	S of Coalinga.
--	June 01	22-10-58	40°.5	127°.5	3.8	a(R)	5	300 km W of Ferndale.
93	June 02	03-37-00	37°.9	118°.9	3.0	a(R)	5	NW of Bishop.
94	June 03	07-05-57.2	40° 21'	124° 36'	3.6	c(R)	7	Off Cape Mendocino. Felt.
88	June 03	13-27-39.7	42°.2	119°.8	4.9	d		Near Adel, Oregon. Location by USCGS. Felt in Adel, Oregon and N.

Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
87	June 04	02-34-15.7	42°.3	119°.9	5.1	d		Near Adel, Ore. Location by USCGS. Felt in Adel, Ore., and N. Calif. Slight damage at Adel.
117	June 04	02-38-19	42°.3	119°.8	4.0	d		
117	June 04	03-35-49.8	42°.3	119°.8	4.1	d(R)		Felt in Adel, Ore. Mag. and location by USCGS.
117	June 04	05-52-32	42°.3	119°.8	4.0	d		Near Adel, Ore. USCGS location.
88	June 04	06-22-19.0	42°.2	119°.8	4.5	d(R)		Felt in Adel, Ore. and Ft. Bidwell, Calif. USCGS location.
87	June 04	10-58-22.8	42°.3	119°.9	4.3	d(R)		Felt in Adel, Ore. USCGS location.
95	June 04	21-58-42.9	36° 44'	121° 36'	2.5	a	6	Near Salinas.
87	June 05	04-51-56.8	42°.3	119°.9	4.7	d		Felt in Adel, Ore. and Ft. Bidwell, Calif. USCGS location.
118	June 05	05-12-36	42°.2	119°.9	3.3	d(R)		Near Adel, Ore. USCGS location.
87	June 05	07-37-45	42°.3	119°.9	3.8	d(R)		Near Adel, Ore. USCGS location.
96	June 05	21-54-24.2	37° 58'.4	122° 21'.8	2.8	b	7	Near Richmond, Calif.
97	June 06	00-25-49.5	38° 37'	119° 20'	3.2	b	5	W of Hawthorne, Nev.
98	June 08	12-36-20.2	36° 40'	120° 24'	2.5	a(R)	6	Near Tranquility, Calif.
99	June 08	18-57-18.6	36° 37'.5	120° 42'.8	2.6	a	6	E of Llanada.
100	June 11	11-43-28.1	35° 54'	121° 42'	3.3	a	9	Offshore, NW of San Simeon.
101	June 11	11-45-57.8	39° 46'	123° 17'	3.1	a(R)	5	NE of Willits.
119	June 12	01-46-22	42°.1	119°.9	4.1	d(R)		Felt in Adel, Ore. USCGS location.
102	June 13	03-19-39.1	36° 40'.4	120° 28'.0	2.9	a	7	Near Tranquility, Calif.
103	June 15	13-53-24.5	37° 25'	121° 50'	2.6	a(R)	7	NE of San Jose.
104	June 17	03-05-44.5	40° 35'	124° 45'	3.8	a(R)	6	Off Cape Mendocino. Felt.

Map No.	Date 1968	Origin Time (G.C.T.) h m s	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
105	June 18	07-46-25.0	36° 37!1	121° 16!6	2.6	b	6	Bear Valley.
106	June 18	11-01-37.7	40°.8	126°.1	3.5	b(R)	6	Gorda Escarpment.
107	June 20	07-50-27.5	36° 50'	121° 36'	3.5	a(R)	7	Near San Juan Bautista.
88	June 22	09-39-53.5	42°.2	119°.8	4	d(R)		Near Adel, Ore. USCGS location.
108	June 22	12-50-50.1	36° 25!8	121° 02!5	2.9	b	9	S of Llanada.
--	June 24	05-36-43.9	36° 42'	115° 57'	3.7	a	7	Southeastern Nev.
109	June 24	07-14-26.5	40° 14'	124° 36'	3.7	b	7	Off Cape Mendocino.
117	June 24	11-03-17.3	42°.3	119°.8	4	d(R)		Near Adel, Ore. USCGS location.
110	June 24	11-14-26.9	40° 15'	124° 27'	3.0	b	6	Off Cape Mendocino.
111	June 26	01-42-20.8	40° 14'	124° 16'	5.9	b(R)	6	Off Cape Mendocino.
110	June 26	01-54-18.7	40° 14'	124° 28'	3.0	b	5	Aftershock of 01-42.
111	June 26	02-16-36.8	40° 15'	124° 18'	3.7	b(R)	5	Aftershock of 01-42.
110	June 26	02-29-10.1	40° 15'	124° 26'	3.7	b(R)	5	Aftershock of 01-42.
112	June 26	02-32-13.7	40° 15'	124° 20'	3.8	a	5	Aftershock of 01-42.
113	June 26	02-53-40.0	40° 15'	124° 30'	3.1	c	5	Aftershock of 01-42.
113	June 26	04-19-17.0	40° 15'	124° 29'	3.0	b	5	Aftershock of 01-42.
114	June 26	05-38-50.5	40° 13'	124° 25'	3.6	b	5	Aftershock of 01-42.
115	June 26	05-50-28.9	40° 16'	124° 25'	3.6	b(R)	5	Aftershock of 01-42.
116	June 26	07-34-22.7	37° 50'	116° 25'	3.0	b	5	SE of Tonopah, Nev.
113	June 26	07-50-56.0	40° 14'	124° 29'	3.9	b	5	Aftershock of 01-42.
110	June 26	09-10-15.0	40° 15'	124° 28'	3.8	b(R)	5	Aftershock of 01-42.
111	June 26	10-47-45.0	40° 12'	124° 18'	4.8	b(R)	6	Aftershock of 01-42.
113	June 26	12-46-07.1	40° 14'	124° 27'	3.3	b(R)	5	Aftershock of 01-42.
113	June 26	14-52-16.7	40° 15'	124° 27'	3.0	b(R)	5	Aftershock of 01-42.
--	June 27	02-26-30.5	40° 25'	127° 10'	3.5	a	5	Off Cape Mendocino.
90	June 27	02-51-00.5	39° 05'	118° 05'	3.3	a	6	SE of Fallon, Nev.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JANUARY 1 TO JUNE 30, 1968
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
WILLITS
UKIAH
CHICO
WILLIAMS
ORV
MLC
MIN
SUSANVILLE
QUINCY
GERLACH
MARYSVILLE
SACRAMENTO
PLACERVILLE
TRUCKEE
REN
LOVELOCK
FALLON
YERINGTON
STOCKTON
LIVERMORE
MARKLEEVILLE
SONORA
JAS
HAWTHORNE
AUSTIN
MONTEREY
HOLLISTER
SAO
MERCED
YOSEMITE
LLA
PRS
KING CITY
FRE
PRI
BISHOP
TONOPAH
SAN SIMEON
COALINGA
TULARE
ARC
FNC
BKS
BRK
CNC
PCC
MHC
GCC
115
42
80
74


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 1 TO JUNE 30, 1968
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
SAO
MERCED
LOS BANOS
LLA
PRS
KING CITY
CAPE
SAN MARTIN
FRESNO
64
79
96
3
56
72
75
57
70
8
103
55
37
69
41
35
27
19
71
42
20
5
39
10
107
95
28
86
45
4
105
21
60
24
22
83
25
63
78
65
62
99
59
108
102
98
100
44
82
66
122°
123°
121°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA AND OREGON
July-December 1968

Map No.	Date 1968	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	July 01	03-13-09.9	39° 47.1	123° 18.8	3.2	a	9	Near Covelo.
2	July 01	22-07-17	40.2	124.8	3.4	a	10	Off Cape Mendocino.
3	July 03	10-00-05	42.3	120°	3.3	a(R)	8	Near Plush, Ore.
4	July 03	17-52-52	35.8	121.5	2.5	a	7	NW of San Simeon.
5	July 03	21-32-35.7	36° 38.1	121° 19.7	2.9	b	10	S of Hollister.
-	July 06	14-02-40	41.1	117.4	5.5	a(R)	11	S of Winnemucca. Felt over approx. 9,000 sq. miles. Max. Intensity V at Golconda, Rye Patch Dam, Winnemucca.
-	July 08	09-47-05	40.3	127.3	4.0	a(R)	11	Mendocino escarpment.
6	July 13	08-41-12.0	36° 32.4	121° 10.6	2.7	b	8	Bear Valley area.
7	July 14	15-23-20.3	37° 25.6	121° 50.9	2.6	a	10	NE of San Jose.
8	July 15	07-43-39	40.3	124.8	3.7	b	10	Cape Mendocino.
9	July 22	01-05-02.5	39° 49.9	121° 53.3	3.3	a	10	NW of Chico. Felt over approx. 900 sq. miles. Max. Intensity V at Artois, Chico, Hamilton City.
9	July 22	01-07-12	39° 50'	121° 53'	3.3	a	8	NW of Chico.
10	July 22	15-10-52	36.9	118.2	3.4	a	7	Owens Valley.
10	July 22	15-17-35	36.9	118.2	3.5	a	6	Owens Valley.
10	July 22	18-43-48.4	36° 55.8	118° 11.7	3.8	a	15	Owens Valley.
11	July 26	18-52-25.7	37° 58.6	122° 00.1	2.9	b	11	E of Concord.
12	July 27	23-57-17.2	40° 12.8	122° 02.4	3.3	a	11	SE of Red Bluff.
13	July 29	04-27-51.9	36° 22.7	120° 41.6	2.7	a	9	N of PRI.
13	July 29	05-29-19.9	36° 22.3	120° 41.7	2.8	a	9	N of PRI.
13	July 31	00-49-25.4	36° 22.4	120° 42.0	2.9	a	9	N of PRI.
14	Aug. 08	05-31-09.2	40° 28.5	124° 29.6	4.0	a	14	Off Cape Mendocino. Felt over approx. 800 sq. miles. Max. Intensity V at Ferndale, Fields Landing.

Map No.	Date 1968	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
15	Aug. 08	19-41-31.6	37° 24!1	121° 45!4	3.2	a	12	NE of San Jose. Felt (Intensity II) at San Jose.
16	Aug. 10	16-06-16	40°	123°	3.4	a(R)	5	W of Paskenta.
17	Aug. 18	22-15-09	40° 14'	123° 54'	3.2	c(R)	8	Near Miranda.
18	Aug. 19	16-30-18.2	36° 24!2	121° 54!3	3.3	a	9	S of Carmel.
19	Aug. 20	07-37-34	37° 50'	121° 56'	2.5	c(R)	5	E of Danville.
20	Aug. 20	18-18-41.0	36° 59!8	121° 44!9	2.6	a	10	N of Watsonville.
21	Aug. 29	11-26-43	39°7	118°1	3.3	a	7	Near Dixie Valley, Nev.
22	Aug. 31	11-10-40	40°4	124°4	3.7	a(R)	6	NW of Petrolia.
23	Sep. 01	21-56-24.4	36° 27!0	121° 01!4	2.7	a	8	E of Pinnacles National Monument.
6	Sep. 03	01-31-07.1	36° 33!5	121° 11!3	3.1	a	10	Near Bear Valley.
24	Sep. 03	08-34-00	37°5	116°5	4.0	a(R)	5	N of Beatty, Nev.
25	Sep. 03	17-37-54	39°5	118°1	3.6	a	5	Near Dixie Valley, Nev.
25	Sep. 03	18-32-10	39°5	118°1	3.9	b	6	Near Dixie Valley, Nev.
26	Sep. 05	05-11-31.7	37° 57!0	122° 21!0	2.1	a	5	Richmond. Felt in El Cerrito.
27	Sep. 12	08-44-47	37°8	118°3	3.3	a(R)	4	NE of Bishop. Felt in Benton and Bishop. Max. Intensity IV.
28	Sep. 20	20-50-43	39°	118°	3.3	a(R)	3	N of Mina, Nev.
29	Sep. 21	03-18-13.4	37° 25!7	122° 13!6	2.8	a	13	SW of Palo Alto. Felt in Menlo Park, Redwood City, Palo Alto. Max. Intensity IV.
30	Sep. 26	20-01-14.4	36° 59!5	121° 42!7	2.9	a	10	NE of Watsonville.
31	Oct. 03	15-56-06	40°6	124°6	3.5	a	12	Off Cape Mendocino.
32	Oct. 06	07-57-05.5	36° 57!1	121° 25!0	2.7	a	8	SE of Gilroy.
33	Oct. 07	06-24-38.0	41°5	126°3	4.1	a(R)	6	200 km NW of Arcata.
8	Oct. 11	10-56-35	40°3	124°8	3.4	c(R)	6	Off Cape Mendocino.
8	Oct. 11	11-07-14	40°3	124°8	3.5	c(R)	11	Off Cape Mendocino. Felt in Ferndale (III)
34	Oct. 13	07-28-23.0	36° 53!6	121° 36!3	2.8	b	9	NW of San Juan Bautista.
35	Oct. 16	17-37-55	40°4	125°8	4.1	a	14	Mendocino Escarpment.

Map No.	Date 1968	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
36	Oct. 17	09-12-05.3	36° 49!5	121° 37!2	2.7	a	10	W of San Juan Bautista.
37	Oct. 20	10-26-08	40°3	125°0	3.7	a	12	Off Cape Mendocino.
38	Oct. 21	09-46-30	40°5	117°8	3.4	a(R)	4	S of Winnemucca.
39	Oct. 21	14-30-25.5	37° 56!9	122° 18!4	3.4	a	9	E of Richmond. Felt. Max. Intensity V at Albany, Berkeley, El Cerrito.
40	Oct. 29	16-35-55.0	37°3	116°3	3.5	a(R)	3	Near Nevada Test Site.
	Oct. 31	11-36-47	36°3	117°5	3.5	a(R)	3	Near Darwin.
14	Oct. 31	13-47-29	40°5	124°5	3.3	a(R)	3	Cape Mendocino. Felt at Ferndale and Petrolia. Max. Intensity IV.
41	Nov. 02	04-12-08	41°3	126°3	3.5	a(R)	5	NW of Arcata.
42	Nov. 05	07-52-26.6	37° 57!0	121° 47!3	2.8	b	13	Near Mt. Diablo.
43	Nov. 05	11-00-41.0	36° 40!5	121° 16!2	3.1	b	10	SE of Hollister.
43	Nov. 05	11-08-26.2	36° 39!0	121° 16!8	3.2	a	9	SE of Hollister.
44	Nov. 06	08-58-22.2	35° 52!6	120° 26!9	2.8	b	10	Near Parkfield. Felt near San Miguel.
45	Nov. 09	12-53-31.1	38° 05!0	121° 50!7	2.5	b	7	Near Antioch.
46	Nov. 10	04-03-03.9	35° 41!9	121° 10!5	3.2	a	9	Near San Simeon.
47	Nov. 17	01-03-57.0	36° 17!1	120° 56!5	3.0	b	6	Near King City.
48	Nov. 21	06-26-40.7	37° 02'	121° 44'	2.6	a(R)	8	Near Watsonville.
44	Dec. 11	12-19-52.4	35° 48!5	120° 28!6	3.0	a	10	Near Parkfield.
49	Dec. 11	12-51-07	40°9	124°1	3.7	d	10	Near Arcata. Felt. Max. Intensity V at Arcata, Eureka, Korbel.
50	Dec. 11	21-37-37.4	37° 09!7	121° 33!6	3.9	b	7	Near Morgan Hill. Felt over approx. 1200 sq. miles. Max. Intensity IV at Milpitas, Morgan Hill, New Almaden. Felt in San Jose, Oakland, San Francisco.
50	Dec. 11	21-45-38.6	37° 09!3	121° 32!3	3.0	a	7	Near Morgan Hill. Felt in San Jose.
51	Dec. 16	01-14-10.9	36° 10!1	120° 50!7	2.7	c	7	W of Priest.
14	Dec. 16	08-31-23.0	40°5	124°5	3.6	a(R)	7	Near Cape Mendocino. Felt in Ferndale and Eel River valley. Max. Intensity IV.

Map No.	Date 1968	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
52	Dec. 19	16-30-00.0	37° 13'.9	116° 28'.4	6.2	a		Nuclear explosion "Benham". This explosion and its larger aftershocks are listed in a separate tabulation following this list.
53	Dec. 23	14-12-23	38°.6	119°.9	3.0	a(R)	9	Near Markleeville.

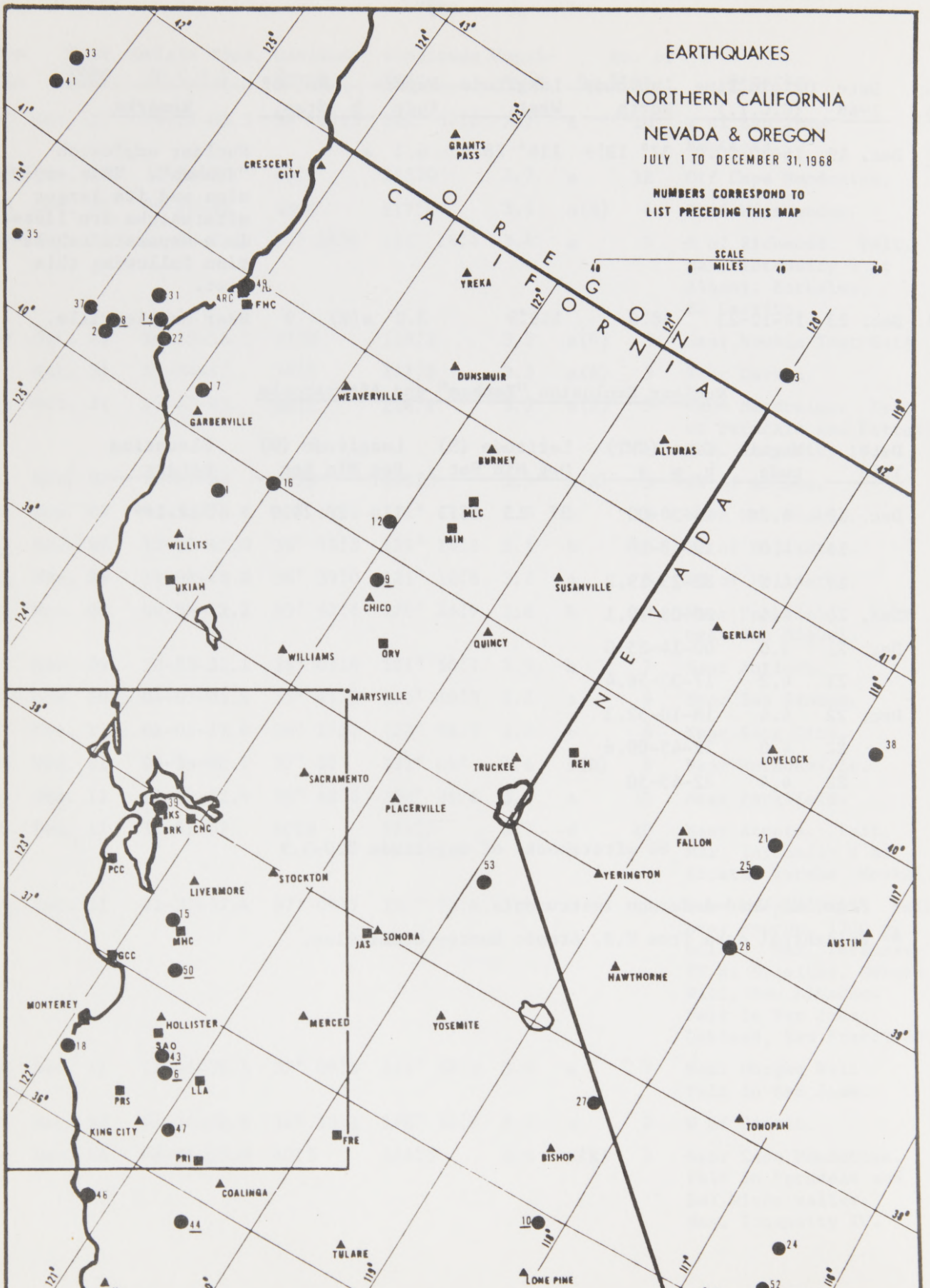
Nuclear Explosion "Benham" and Aftershocks

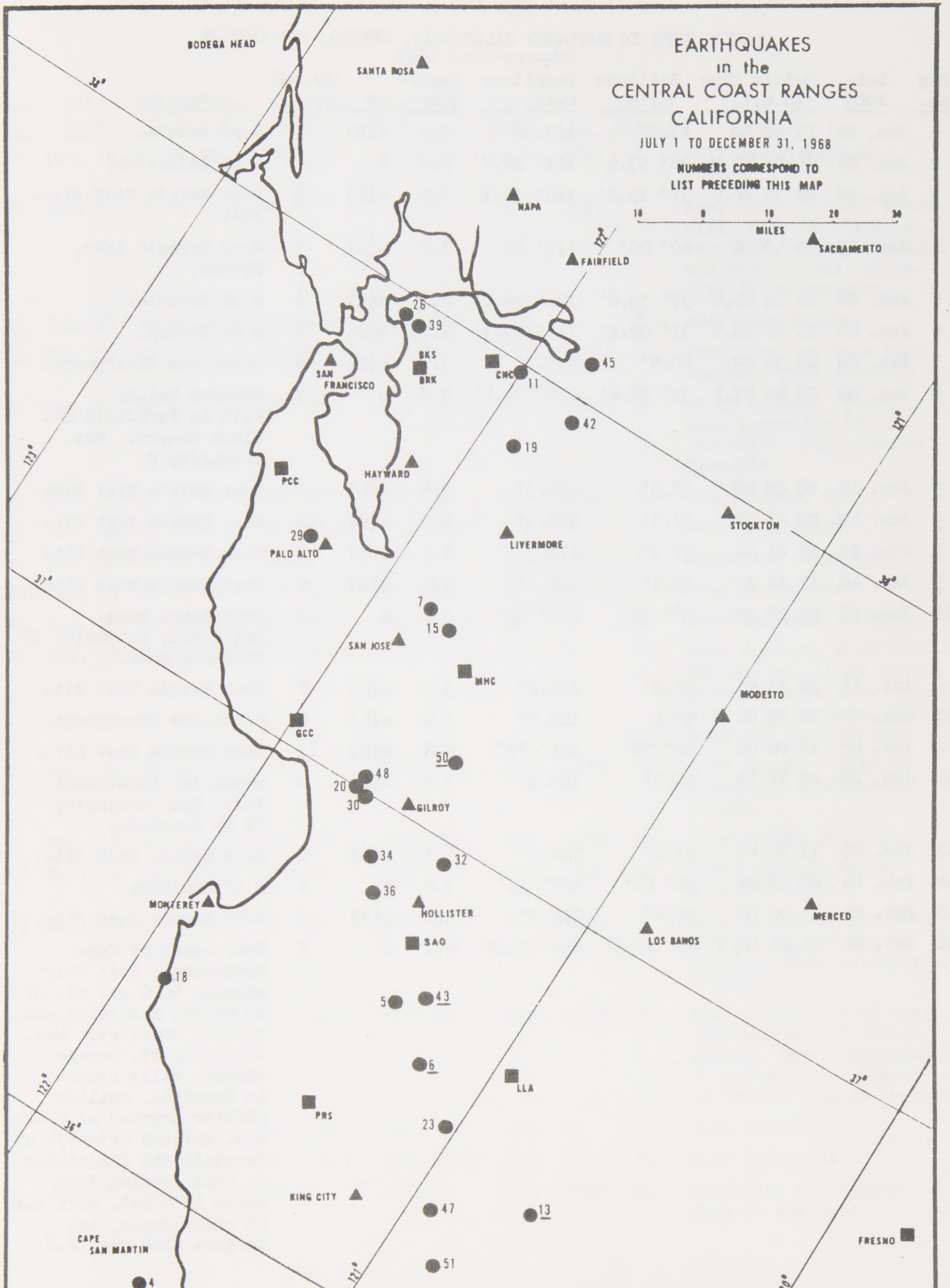
Date 1968	Magnitude	Time (GMT) h m s	Latitude (N) Deg Min Sec	Longitude (W) Deg Min Sec	Elevation meters
Dec. 19	6.2*	16-30-00	37 13 53.3	116 28 24.9	512.1**
19	4.0	19-18-18			
19	4.5	22-23-19.2			
Dec. 20	4.4	20-08-19.1			
Dec. 21	5.0	00-14-25.0			
21	4.2	17-32-56.4			
Dec. 22	4.4	18-10-52.3			
22	4.0	22-45-09.6			
22	4.4	22-45-50			

66 aftershocks of magnitude 3.0-3.9

* From BKS Wood-Anderson instruments.

** Epicentral data from U.S. Atomic Energy Commission.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 1 TO DECEMBER 31, 1968
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
40 0 MILES 40 80
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
WILLITS
UKIAH
CHICO
SUSANVILLE
GERLACH
WILLIAMS
ORV
QUINCY
MARYSVILLE
SACRAMENTO
PLACERVILLE
TRUCKEE
REN
LOVELOCK
FALLON
YERINGTON
AUSTIN
HAWTHORNE
LIVERMORE
STOCKTON
SONORA
MONTEREY
HOLLISTER
MERCED
YOSEMITE
KING CITY
COALINGA
TULARE
BISHOP
TONOPAH
LONE PINE
FMC
MLC
MIN
MHC
GCC
PRS
LLA
SAO
FRE
PRI
JAS
KS
BRK
CNC
PCC
REN


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JULY 1 TO DECEMBER 31, 1968
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
CMC
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
SAO
LOS BANOS
MERCED
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
26
39
45
11
42
19
29
7
15
50
48
20
30
34
32
36
18
5
43
6
23
47
13
51
4
123°
122°
121°
37°
36°

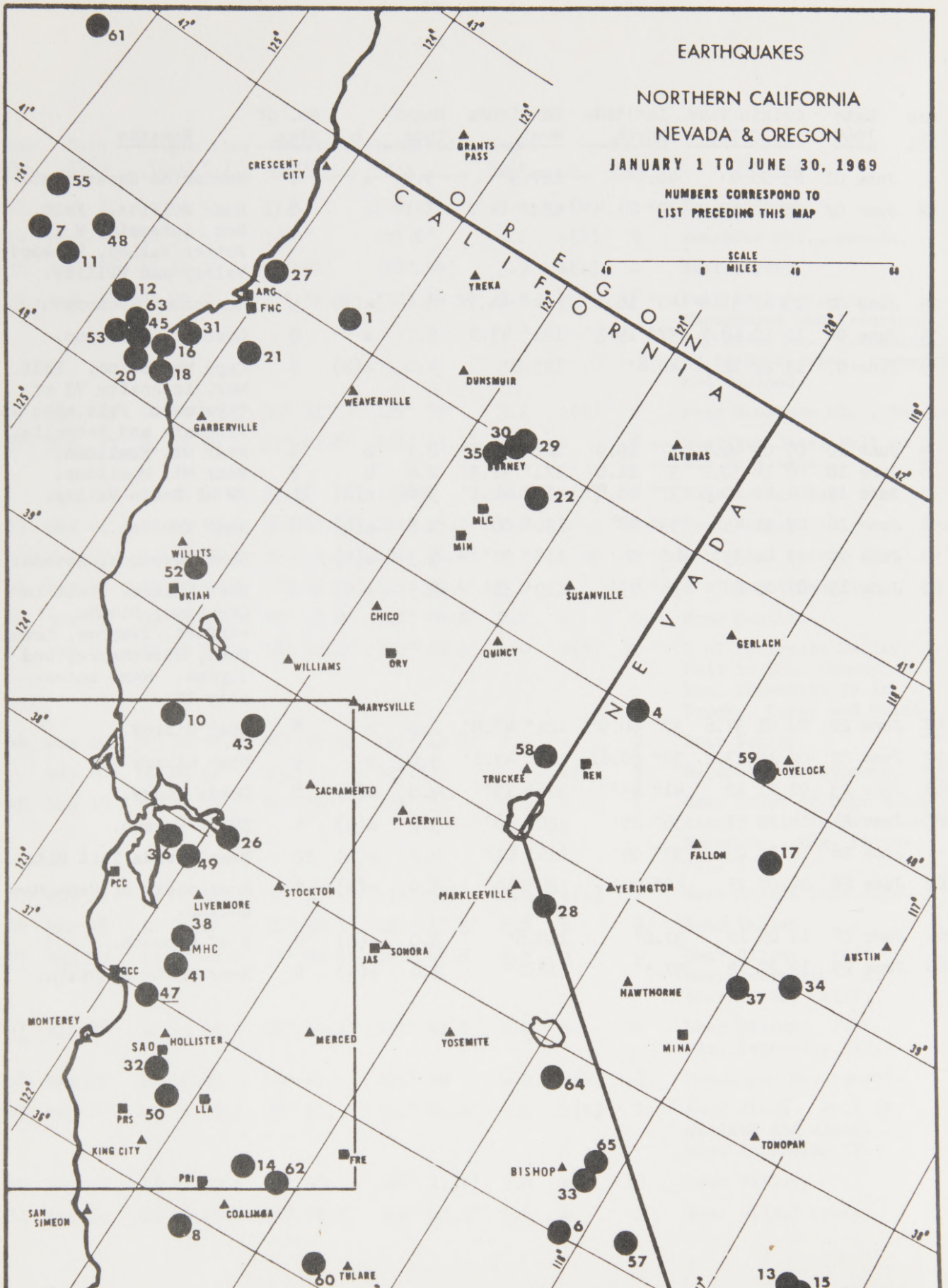
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
January-June 1969

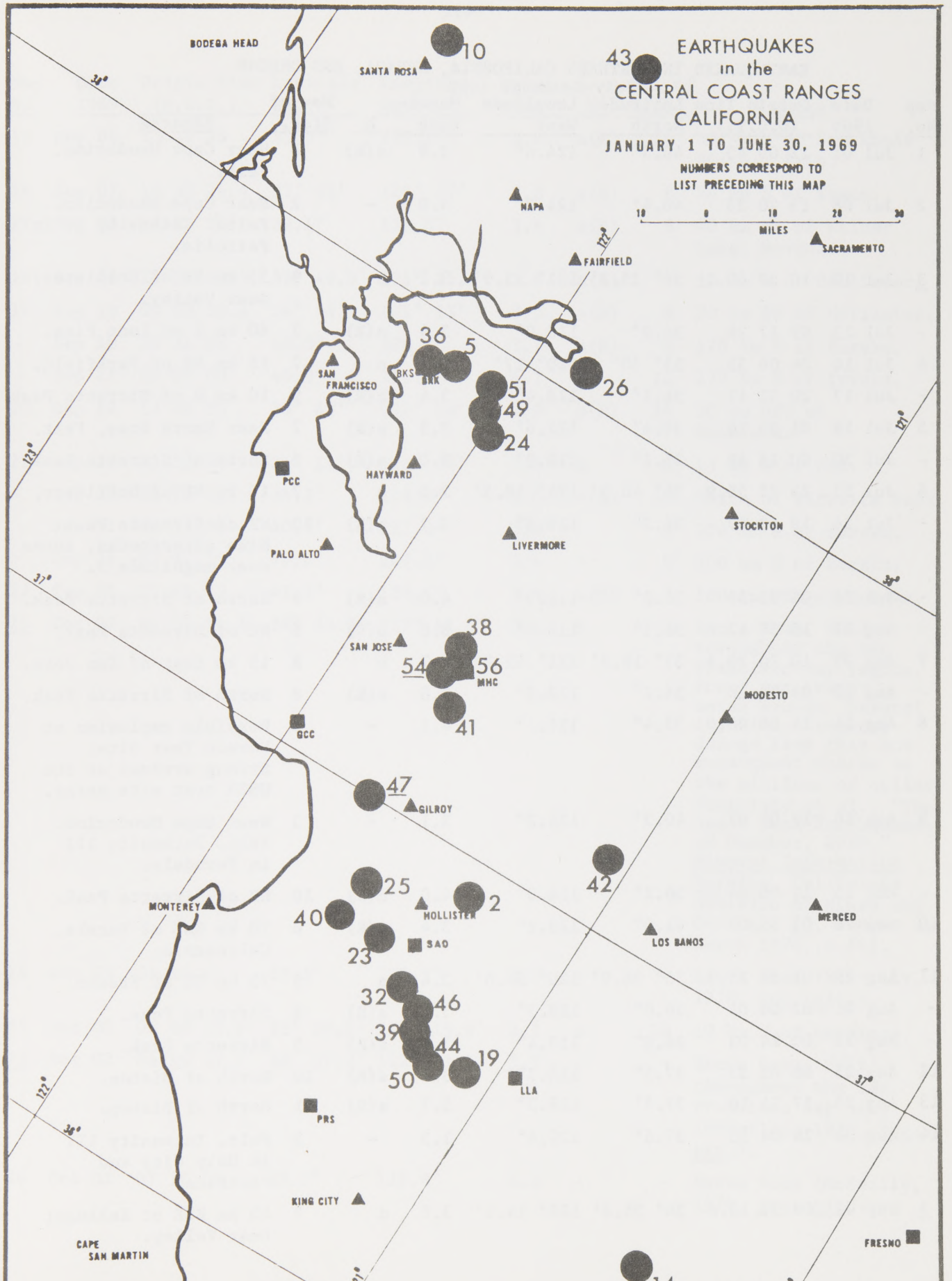
Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jan. 01	21 01 10	41.1°	123.3°	3.3	a(R)	5	E of Arcata.
2	Jan. 04	15 28 42.0	36° 53.6'	121° 18.7'	2.9	b	10	E of Hollister.
3	Jan. 06	06 34 16.6	37° 15.2'	116° 30.1'	4.5	a(R)	8	Near Nevada Test Site. Felt.
4	Jan. 07	3 40 59	40° 00'	119° 42'	3.8	a(R)	5	Near Pyramid Lake, Nevada.
5	Jan. 08	21 13 25.6	37° 53.8'	122° 09.8'	2.5	a(R)	6	E of Berkeley.
6	Jan. 08	21 47 18.4	37° 02.2'	118° 09.3'	3.5	b(R)	8	S of Bishop.
7	Jan. 09	09 34 09	40.5°	125.7°	3.3	a(R)	4	Mendocino Escarpment.
8	Jan. 09	09 42 47.2	35° 56.4'	120° 34.1'	3.8	b	7	Cholame Valley. Felt in Parkfield and Slack Canyon. Max. intensity V.
9	Jan. 10	08 08 48	37.3°	116.3°	3.6	a(R)	5	Near Nevada Test Site.
9	Jan. 10	09 41 22	37.3°	116.3°	4.6	a(R)	11	Near Nevada Test Site.
9	Jan. 10	17 01 44	37.3°	116.3°	4.5	a(R)	8	Near Nevada Test Site.
9	Jan. 10	17 14 17	37.3°	116.3°	4.6	a(R)	6	Near Nevada Test Site.
10	Jan. 15	04 28 09	38° 31'	122° 42'	3.0	a	5	Near Santa Rosa. Felt. Max. intensity IV in Santa Rosa.
-	Jan. 15	20 13 41	37.2°	116.2°	3.5	a(R)	7	Near Nevada Test Site.
11	Jan. 17	02 49 51	40.5	125.4°	3.6	a(R)	6	Mendocino Escarpment.
-	Jan. 22	15 00 02	36° 58'	115° 59'	4.4	a(R)	11	Near Nevada Test Site.
12	Jan. 28	20 57 19	40.5°	124.9°	3.4	a(R)	8	Mendocino Escarpment. Felt. Max. intensity IV in Ferndale.
13	Jan. 29	13 32 49	37.4°	116.5°	3.5	a(R)	6	Near Nevada Test Site.
14	Feb. 04	00 45 26	36° 24'	120° 23'	3.0	b	4	N of Coalinga.
15	Feb. 04	15 00 06	37.4°	116.4°	3.7	a(R)	5	Near Nevada Test Site.
16	Feb. 07	21 25 48.9	40° 20.6'	124° 21.9'	4.7	c	9	Near coast of Cape Mendocino. Felt over approx. 4000 sq. mi. of Humboldt, Mendocino and Trinity counties. Max. intensity VI. Damage slight. Walls cracked in Ferndale. Ceiling plaster cracked at Honeydew. Twisted chimneys at Ferndale and landslides on road leading from there to coast. More than 40 aftershocks, the largest with Mag. 2.8.

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
17	Feb. 14	03 24 55	39.6°	118.2°	3.2	a(R)	4	Stillwater Mountains, Nevada.
18	Feb. 14	21 17 13	40.2°	124.3°	3.5	a(R)	4	Near coast of Cape Mendocino. Felt in Petrolia, Ferndale, Alton, Rio Dell and Scotia. Max. intensity IV in Petrolia.
19	Feb. 15	15 44 22.9	36° 34.9'	121° 04.6'	2.8	b	8	Near Bear Valley.
20	Feb. 22	02 05 31	40.2°	124.5°	4.0	a(R)	5	Near coast of Cape Mendocino. Felt (Press).
21	Feb. 22	18 37 32	40° 34'	123° 48'	3.1	c(R)	5	SE of Eureka. Felt. Max. intensity IV at Rio Dell. Felt also at Ferndale.
22	Feb. 23	22 35 18	40° 47'	121° 18'	3.2	a(R)	5	Near Burney, Calif.
23	Feb. 26	23 44 42.4	36° 44.3'	121° 28.0'	2.6	b	7	Near Hollister.
-	Mar. 02	22 00 08	40.2°	126.3°	3.5	a(R)	5	Mendocino Escarpment.
24	Mar. 03	16 15 44.8	37° 49.2'	121° 58.7'	2.7	a(R)	3	Near Mt. Diablo
25	Mar. 09	13 31 47.4	36° 50.0'	121° 34.8'	2.6	a	8	Near San Juan Bautista.
26	Mar. 13	03 23 23.8	38° 03.1'	121° 51.4'	3.5	b	8	Near Antioch. Felt over 800 sq. mi. in NE Contra Costa County. Max. intensity V at Antioch, Pittsburg and Port Chicago.
27	Mar. 14	09 16 05	41.1°	124.0°	3.4	a(R)	5	N of Arcata. Felt in Ferndale, Eureka and Arcata.
-	Mar. 18	14 40 02.0	37° 10'	115° 58'	4.0	a(R)	6	Near Nevada Test Site.
28	Mar. 19	11 19 22	38° 41'	119° 33'	3.2	a(R)	11	Calif.-Nevada border N of Coleville.
29	Mar. 28	04 53 37	41° 02'	121° 37'	3.8	a(R)	9	Near Burney. Felt over 600 sq. mi. of Shasta County. Max. intensity V near Burney.
30	Mar. 28	18 12 59	40° 59'	121° 38'	4.2	a(R)	9	Near Burney. Felt over 1200 sq. mi. of Shasta County. Max. intensity V near Burney. Stack of lumber fell at Burney.
31	Apr. 02	10 44 20	40° 30'	124° 18'	3.5	a	5	Cape Mendocino.
32	Apr. 02	18 17 09.5	36° 40.3'	121° 21.2'	3.0	b	8	S of Hollister.
-	Apr. 06	14 11 33	40.6°	126.2°	4.3	a(R)	11	Mendocino Escarpment. Felt in Ferndale.

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
33	Apr. 11	15 44 33	37.4°	118.2°	3.0	a(R)	3	Near Bishop.
34	Apr. 12	10 51 30	39.0°	117.6°	3.2	a(R)	3	Shoshone Mts., Nevada.
35	Apr. 12	17 13 03	40° 52'	121° 44'	3.3	a(R)	4	Near Burney.
36	Apr. 14	04 22 36.4	37° 52.9'	122° 14.3'	3.0	b	6	Near Berkeley. Felt throughout San Francisco Bay area. Max. intensity IV in El Cerrito, Berkeley and Oakland.
37	Apr. 15	10 30 00.5	38° 51'	117° 57'	3.2	a(R)	7	Near Shoshone Mts., Nevada.
38	Apr. 23	23 47 26.1	37° 22.8'	121° 43.3'	3.3	a	9	Near San Jose. Felt in San Jose area.
-	Apr. 24	13 04 02	37.2°	116.0°	4.0	a(R)	6	Near Nevada Test Site.
39	May 02	05 03 17.6	36° 35.8'	121° 15.2'	2.8	b	8	Bear Valley.
40$	May 02	22 00 56.8	36° 44.3'	121° 36.4'				Natividad Quarry Blast.
41	May 07	01 59 10.0	37° 16.0'	121° 39.4'	3.0	b	8	S of Mount Hamilton.
42	May 07	09 25 24.7	37° 09.6'	121° 04.0'	2.7	b	6	Near Gustine.
43	May 08	22 10 53.1	38° 42.2'	122° 10.3'	4.0	a(R)	10	E of Berryessa Valley. Felt in Yolo County. Max. intensity IV in Brooks, Capay and Guinda.
44	May 10	13 01 57.5	36° 34.9'	121° 12.8'	2.7	a	9	Bear Valley.
-	May 10	22 03 02	40.5°	127.3°	4.0	a(R)	5	Mendocino Escarpment.
45	May 15	07 40 57	40° 18'	124° 37'	3.3	d	7	Near Coast of Cape Mendocino. Felt in Petrolia, Ferndale. Max. intensity IV.
-	May 15	18 00 02	37° 02'	115° 58'	4.0	a(R)	7	Near Nevada Test Site.
46	May 16	12 17 02.0	36° 38.4'	121° 17.3'	2.8	b	9	Bear Valley.
47	May 23	17 38 48.2	37° 00.4'	121° 42.6'	3.2	b	9	Near Gilroy. Felt. Max. intensity V at Corralitos, Calif.
47	May 24	12 41 45.0	36° 59.1'	121° 41.5'	3.0	b	10	Near Gilroy. Felt. Max. intensity III.
48	May 24	20 16 25	40° 45'	125° 20'	4.0	a(R)	8	Mendocino Escarpment.
49	May 25	22 31 28.4	37° 51.9'	122° 01.8'	3.1	b(R)	7	Near Alamo. Felt in Oakland and Alamo. Max. intensity IV.
50	May 27	13 37 39.6	36° 33.1'	121° 11.7'	3.0	a	10	Bear Valley.
51	May 30	09 26 28.8	37° 56.5'	122° 03.1'	2.6	b	5	Near Walnut Creek.

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
-	June 01	23 56 04	40.7°	127.3°	3.9	a	7	Mendocino Escarpment.
52	June 02	05 38 55.2	39° 21.4'	123° 14.7'	3.1	c	8	Near Willits. Felt. Max. intensity V at Potter Valley, Redwood Valley and Willits.
53	June 02	19 11 31.8	40° 16.1'	124° 44.7'	3.4	a(R)	9	Mendocino Escarpment.
54	June 04	12 10 18.7	37° 19.3'	121° 43.2'	2.7	a	9	Near Mt. Hamilton.
55	June 07	11 27 12	40.8°	125.8°	4.0	a(R)	5	Cape Mendocino. Felt. Max. intensity VI at Capetown. Felt also in Ferndale and Petrolia.
54	June 10	07 02 46.7	37° 19.9'	121° 41.7'	2.7	b	8	Near Mt. Hamilton.
56	June 10	08 24 30.2	37° 21.0	121° 42.3'	2.6	b	7	Near Mt. Hamilton.
57	June 13	01 20 19.2	37° 08.8'	117° 42.1'	3.8	a(R)	11	NW of Death Valley.
58	June 16	07 31 45	39° 28'	120° 08'	3.5	a(R)	8	Near Truckee.
59	June 19	07 02 33	40° 04' N	118° 37'	3.3	a(R)	5	Near Lovelock, Nevada.
60	June 19	07 05 08	36° 07'	119° 35'	3.5	a(R)	8	Near Tulare. Felt in Corcoran, Dinuba, Hanford, Ivanhoe, Lemon Cove, Strathmore, and Tipton. Max. intensity IV.
47	June 22	02 01 37.6	37° 00.9'	121° 42.9'	2.6	b	8	Near Gilroy.
47	June 22	02 18 23.2	37° 00.6'	121° 43.1'	3.0	b	9	Near Gilroy
61	June 23	01 21 12	41° 43'	126° 19'	4.0	b(R)	8	Gorda Ridge.
62	June 24	14 25 57	36° 25'	120° 08'	3.0	a(R)	4	SW of Fresno.
-	June 26	16 00 03	37° 09'	116° 01'	4.2	a(R)	10	Near Nevada Test Site.
63	June 28	04 07 25	40° 22'	124° 40'	3.9	c(R)	7	Near coast of Cape Mendocino.
64	June 28	11 05 12	37.8°	118.8°	3.0	c(R)	8	E of Mammoth.
65	June 29	12 27 12	37.5°	118.2°	3.0	a(R)	8	Near White Mountain.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JANUARY 1 TO JUNE 30, 1969
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
DUNSMUIR
WEAVERVILLE
GARBERVILLE
ALTURAS
BURNEY
MLC
MIN
WILLITS
UKIAH
CHICO
SUSANVILLE
QUINCY
GERLACH
WILLIAMS
ORV
MARYSVILLE
TRUCKEE
REN
LOVELOCK
SACRAMENTO
PLACERVILLE
FALLON
PCC
STOCKTON
LIVERMORE
MARKLEEVILLE
YERINGTON
MHC
SONORA
JAS
GCC
AUSTIN
HAWTHORNE
MONTEREY
SAO
HOLLISTER
MERCED
YOSEMITE
MINA
PRS
LLA
KING CITY
TONOPAH
PRI
FRE
BISHOP
SAN SIMEON
COALINGA
TULARE


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 1 TO JUNE 30, 1969
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
GCC
MODESTO
GILROY
MONTEREY
HOLLISTER
SAO
LOS BANOS
MERCED
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
122°
123°
121°
37°
36°
43
10
36
5
51
49
24
26
38
54
56
41
47
25
40
2
23
32
46
39
44
19
50
42

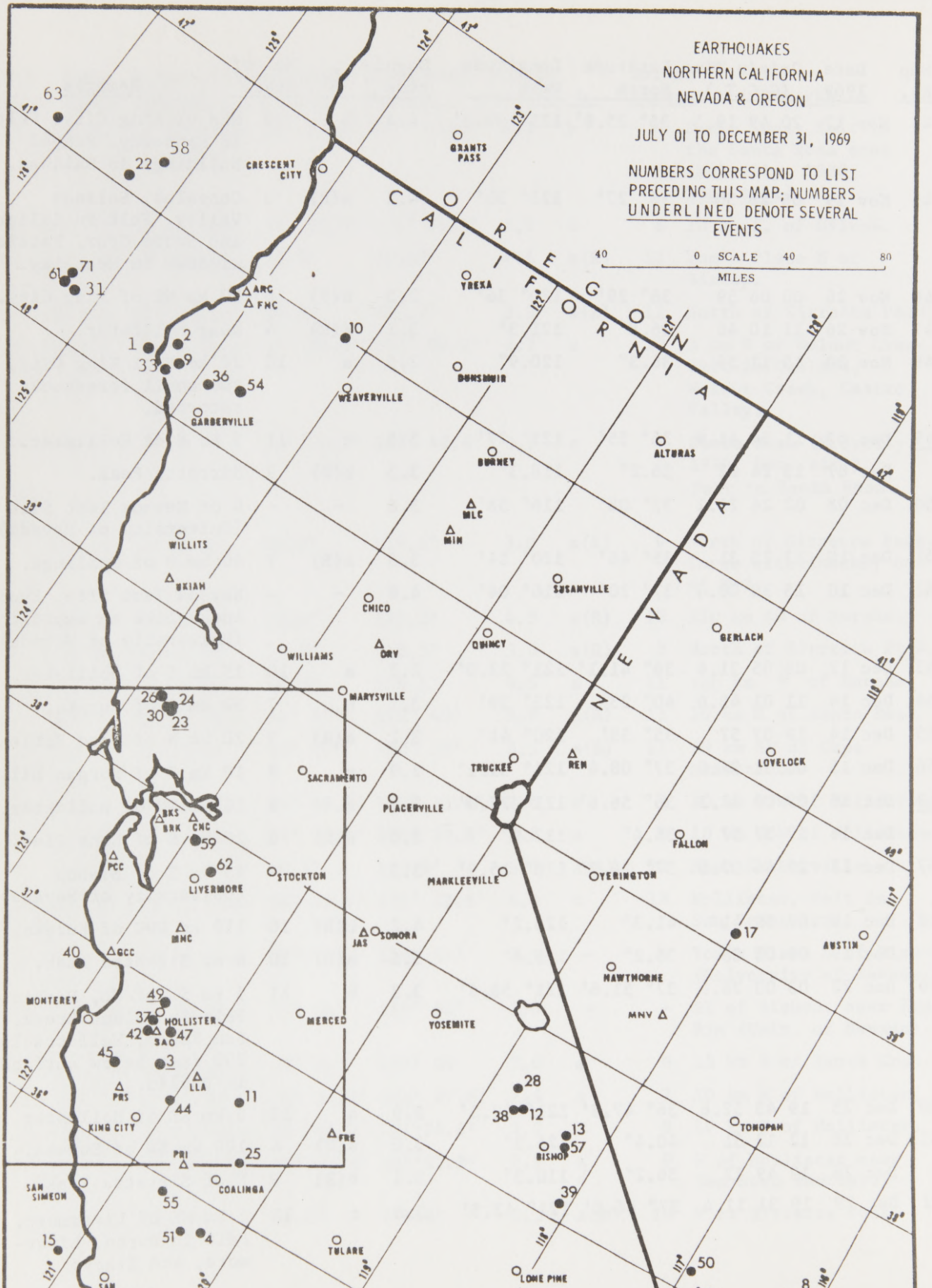
EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
July-December 1969

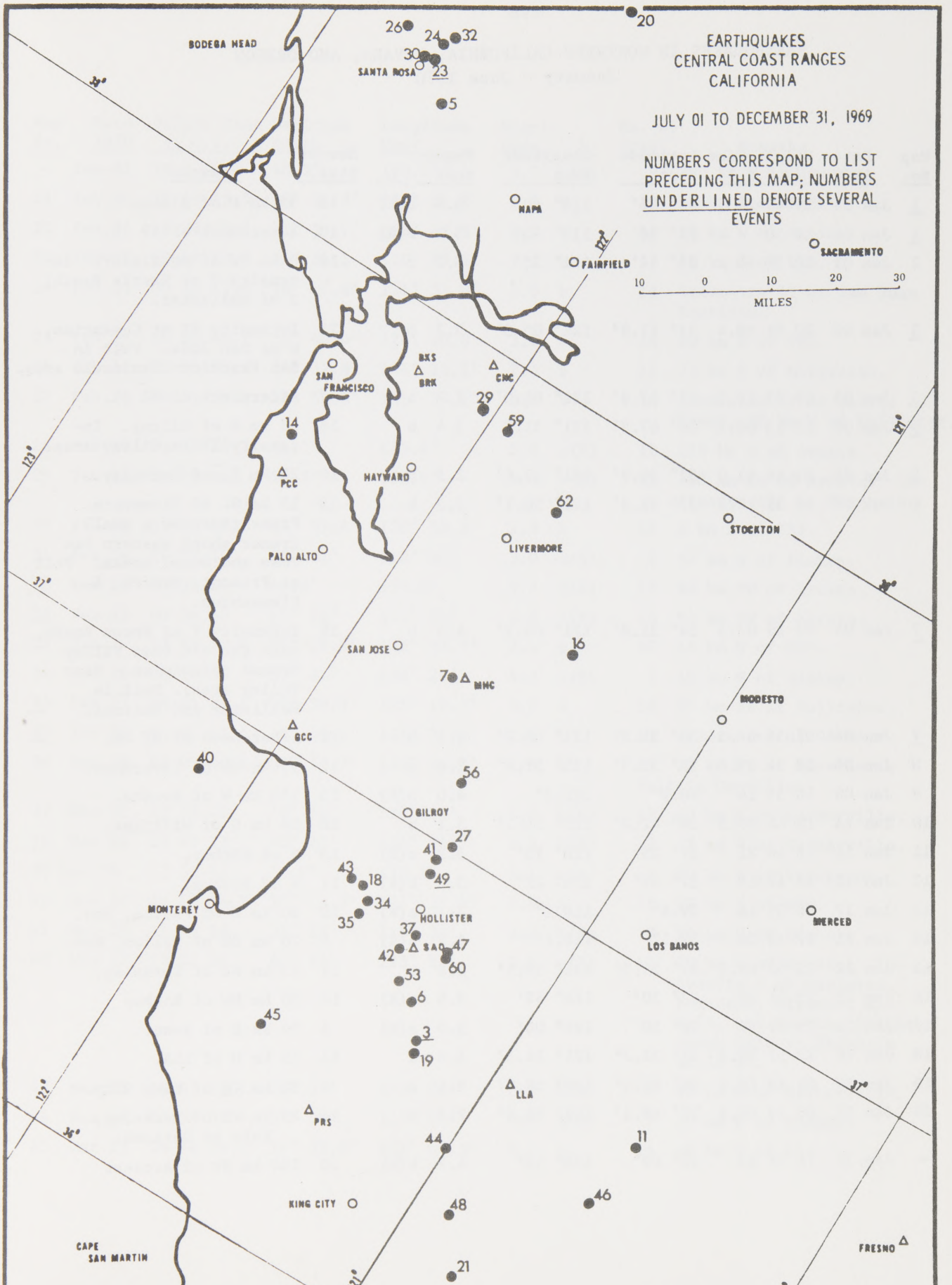
Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jul 01	12 00 45	40.3°	124.4°	3.9	a(R)	8	Near Cape Mendocino. Felt.
2	Jul 08	13 20 23	40.4°	124.3°	3.0	-	2	Near Cape Mendocino. Felt. Intensity IV in Petrolia.
3	Jul 10	10 39 40.1	36° 35.2'	121° 13.9'	3.2	b	9	35 km SE of Hollister; Bear Valley.
-	Jul 13	09 17 29	36.0°	118.0°	3.4	a(R)	7	60 km S of Lone Pine.
4	Jul 16	04 06 35	35° 50'	120° 17'	3.2	c	7	15 km SE of Parkfield.
-	Jul 17	20 31 11	36.1°	118.4°	3.4	b(R)	9	10 km N of Sirretta Peak
5	Jul 18	01 35 28	38.4°	122.6°	2.5	a(R)	7	Near Santa Rosa. Felt.
-	Jul 20	00 15 49	36.1°	118.3°	3.0	a(R)	6	North of Sirretta Peak
6	Jul 23	23 22 56.9	36° 40.5'	121° 18.5'	2.6	a	7	15 km SE of Hollister.
-	Jul 24	18 43 57	36.2°	118.3°	3.7	a(R)	10	NE of Sirretta Peak. Nine aftershocks, three over magnitude 3.
-	Jul 26	05 32 39	36.2°	118.3°	4.0	a(R)	9	North of Sirretta Peak.
-	Aug 01	15 56 13	36.1°	118.2°	3.0	a(R)	6	NE of Sirretta Peak.
7	Aug 09	10 20 20.4	37° 19.9'	121° 42.2'	2.7	b	8	15 km East of San Jose.
-	Aug 12	03 24 16	36.2°	118.3°	3.0	a(R)	8	North of Sirretta Peak.
8	Aug 14	14 30 00.0	37.4°	116.1°	4.1	-	3	Possible explosion at Nevada Test Site. Strong arrival at the USGS test site array.
9	Aug 14	19 04 07	40.3°	124.2°	3.1	-	3	Near Cape Mendocino. Felt. Intensity III in Ferndale.
-	Aug 15	11 05 14	36.2°	118.3°	4.0	a(R)	10	NE of Sirretta Peak.
10	Aug 20	03 55 09	41.0°	123.2°	3.4	a(R)	6	70 km ENE of Eureka, California.
11	Aug 20	08 36 35.3	36° 38.9'	120° 34.0'	3.4	a	9	75 km SW of Fresno.
-	Aug 21	02 00 01	36.0°	118.3°	3.0	a(R)	8	Sirretta Peak.
-	Aug 22	00 24 03	36.0°	118.4°	3.0	a(R)	5	Sirretta Peak.
12	Aug 25	08 03 33	37.5°	118.7°	3.7	a(R)	10	North of Bishop.
13	Aug 25	17 11 18	37.5°	118.3°	3.7	a(R)	11	North of Bishop.
14	Aug 30	20 04 55	37.6°	122.4°	1.3	-	3	Felt. Intensity III in Daly City and Pacifica.
3	Sep 03	08 35 13.6	36° 35.2'	121° 14.1'	3.2	d	9	40 km ESE of Salinas; Bear Valley.

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
15	Sep 06	13 44 45	35.3°	121.1°	3.6	a(R)	10	50 km W of San Louis Obispo. Felt.
16	Sep 07	16 32 24.4	37° 31'	121° 27'	2.8	a(R)	6	10 km S of Tracy.
17	Sep 08	12 28 24	39.1°	118.0°	3.4	a(R)	6	40 km NE of Walker Lake, Nevada.
18	Sep 09	19 23 43.5	36° 49.9'	121° 35.6'	2.8	a(R)	9	10 km W of Hollister.
19	Sep 10	00 00 58.4	36° 34'	121° 13'	2.5	a(R)	8	30 km SE of Hollister.
-	Sep 10	22 31 29	40.5°	126.3°	3.7	a(R)	6	170 km W of Eureka.
-	Sep 11	05 28 08	40.3°	127.3°	4.7	b	12	275 km W of Eureka.
20	Sep 12	13 48 55	38° 48'	122° 18'	2.9	a(R)	14	30 km WNW of Woodland.
21	Sep 16	03 32 24	36° 11'	120° 48'	2.5	b	8	13 km W of PRI.
-	Sep 20	18 37 58	36.2°	118.4°	3.0	a(R)	12	North of Sirretta Peak.
-	Sep 21	02 23 36	40.2°	127.2°	3.0	-	8	200 km W of Eureka.
-	Sep 21	02 47 59	40.2°	127.2°	3.4	-	8	200 km W of Eureka.
22	Sep 29	12 42 23	41.1°	125.4°	3.4	a(R)	7	100 km WNW of Eureka.
23	Oct 02	04 56 46.5	38° 28.0'	122° 41.5'	5.6	b	-	Santa Rosa. Felt throughout the San Francisco Bay region. Power out, water mains broken. Several injuries. Property damage from this and subsequent shocks in the millions of dollars (McEvilly et al., "The Santa Rosa Earthquakes of October, 1969," Mineral Information Service, California Division of Mines and Geology, 23, Number 3, March 1970, p.44).
24	Oct 02	05 14 21	38.5°	122.7°	3.5	-	-	Santa Rosa (McEvilly, 1970, loc. cit.).
25	Oct 02	06 00 58.9	36° 19.1'	120° 19.4'	3.3	a	10	10 km N of Coalinga.
23	Oct 02	06 19 57.1	38° 27.3'	122° 41.5'	5.7	c	-	Santa Rosa. Felt throughout the San Francisco Bay area (McEvilly, 1970, loc. cit.).
26	Oct 02	07 10 09	38.5°	122.8°	3.4	-	-	Santa Rosa (McEvilly, 1970, loc. cit.).

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
23	Oct 02	12 27 05.5	38° 29.4'	122° 41.0'	4.3	b	-	Santa Rosa. Felt in the Santa Rosa area (McEvilly, 1970, loc. cit.).
27	Oct 02	20 56 31.3	37° 00.0'	121° 26.3'	2.9	b	8	10 km E. of Gilroy.
28	Oct 03	13 10 11	37.6°	118.8°	4.6	a(R)	12	Tom's Place N of Bishop.
-	Oct 03	23 32 28	36.2°	118.3°	3.3	a(R)	11	North of Sirretta Peak.
29	Oct 05	06 54 54.4	37° 52.8'	122° 02.2'	2.7	c	10	3 km S of Walnut Creek. Felt in Oakland, Walnut Creek, Castro Valley.
30	Oct 06	14 28 07	38° 27.7'	122° 42.8'	3.9	c	-	Santa Rosa (McEvilly, 1970, loc. cit.). Felt in Santa Rosa.
-	Oct 06	14 42 31	36.2°	118.3°	3.0	a(R)	9	North of Sirretta Peak. Three aftershocks, one of M=3.
31	Oct 07	08 38 35	40.4°	125.2°	4.3	a(R)	12	120 km SW of Eureka.
-	Oct 09	22 14 00	36.2°	118.3°	3.0	a(R)	8	North of Sirretta Peak.
63$	Oct 12	09 32 55	41.2°	126.1°	4.5	a	11	180 km W of Eureka.
32	Oct 16	18 15 19.1	38° 32'	122° 40'	2.8	a(R)	11	10 km N of Santa Rosa.
33	Oct 17	22 55 15	40° 14'	124° 15'	3.5	a(R)	11	20 km SE of Cape Mendocino.
34	Oct 18	19 46 12.7	36° 48.3'	121° 33.4'	2.6	a	9	10 km WSW of Hollister.
35	Oct 18	22 05 40.5	36° 46.1'	121° 33.3'	2.6	a	9	10 km WSW of Hollister.
36	Oct 22	22 02 43	40.3°	123.9°	3.8	a(R)	12	Near Garberville.
37	Oct 27	10 59 42.8	36° 47.4'	121° 23.6'	4.6	c	18	Hollister. Felt in San Francisco.
38	Oct 27	11 17 11.6	37° 29'	118° 45'	3.0	-	-	Tom's Place N of Bishop (University of Nevada).
39	Oct 28	02 32 10.2	37° 06'	118° 04'	3.0	-	-	SE of Bishop, near Big Pin (Univ. of Nevada).
40	Nov 06	19 40 26.5	36° 51'	122° 09'	3.0	a	8	15 km S of Santa Cruz.
41	Nov 11	07 57 49.8	36° 57.8'	121° 27.8'	2.6	a	7	10 km N of Hollister.
42	Nov 15	20 58 03.6	36° 44.7'	121°24.4'	4.2	c	9	10 km S of Hollister.
43	Nov 16	10 17 20.2	36° 49.6'	121°37.8'	2.9	a	9	W of Hollister near San Juan Bautista.
-	Nov 16	19 29 24	36.1°	118.4°	3.5	a(R)	10	N of Sirretta Peak.

Map No.	Date 1969	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
44	Nov 17	20 49 19.5	36° 25.6'	121° 00.3'	4.4	b	10	NEN of King City. Felt in Monterey. Swayed buildings in Salinas.
45	Nov 19	06 28 50	36° 27'	121° 31'	4.2	a(R)	8	Gonzales, Salinas Valley. Felt in Salinas and Santa Cruz. Rattled windows in Monterey.
46	Nov 26	00 06 59	36° 29'	120° 36'	2.5	b(R)	6	50 km NE of King City.
47	Nov 26	11 10 46	36.8°	121.3°	3.1	a(R)	4	Near Hollister.
48	Nov 30	15 11 54	36.3°	120.9°	2.5	a	10	20 km E of King City. Two small foreshocks recorded.
49	Dec 07	11 54 41.9	36° 55'	121° 27'	3.5	c	11	5 km N of Hollister.
	Dec 07	13 24 22	36.2°	118.3°	3.3	b(R)	9	Sirretta Peak.
50	Dec 08	02 26 23.1	37° 08'	116° 58'	3.6	-	-	W of Nevada Test Site (University of Nevada).
51	Dec 10	13 25 31	35° 46'	120° 24'	3.5	a(R)	7	40 km S of Coalinga.
52	Dec 10	15 30 00.4	37° 20'	116° 04'	4.6	-	-	Nevada Test Site. Event looks like an explosion (University of Nevada).
53	Dec 12	08 05 31.6	36° 41.1'	121° 22.0'	2.7	a	10	15 km S of Hollister.
54	Dec 14	11 01 45.6	40° 23'	123° 39'	3.2	b	7	50 km S of Eureka.
55	Dec 14	19 07 57	35° 55'	120° 41'	3.2	a(R)	9	20 km N of Paso Robles.
56	Dec 15	00 31 34.0	37° 08.4'	121° 31.1'	2.9	c	9	10 km E of Morgan Hill.
49	Dec 16	09 09 42.3	36° 56.6'	121° 27.0'	3.1	a	9	10 km NW of Hollister.
-	Dec 16	17 37 57	36.4°	117.9°	3.0	a(R)	6	20 km S of Lone Pine.
57	Dec 17	22 44 07.5	37° 24.7'	118° 15.9'	3.3	-	-	45 km E of Bishop (University of Nevada).
58	Dec 18	07 59 41	41.3°	125.2°	4.2	b(R)	10	110 km WNW of Eureka.
-	Dec 19	09 03 38	36.2°	118.4°	3.5	a(R)	10	N or Sirretta Peak.
59	Dec 22	03 03 26.5	37° 51.6'	121° 56.6'	3.3	b	11	5 km SW of Mt. Diablo. Felt in Walnut Creek, San Ramon. Well cracked 200 feet below surface in Dublin.
60	Dec 25	19 43 52.6	36° 47.2'	121° 17.3'	2.9	a	12	5 km SE of Hollister.
61	Dec 26	12 12 31	40.4°	125.3°	3.6	a(R)	4	100 km SW of Eureka.
-	Dec 26	12 49 12	36.2°	118.3°	3.1	b(R)	9	N of Sirretta Peak.
62	Dec 29	19 31 11.4	37° 46.0'	121° 42.5'	3.8	c	15	5 km NE of Livermore. Felt in Byron, Livermore, and Tracy.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 01 TO DECEMBER 31, 1969
NUMBERS CORRESPOND TO LIST PRECEDING THIS MAP; NUMBERS UNDERLINED DENOTE SEVERAL EVENTS
40 0 SCALE 40 80
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
ARC
FMC
WEAVERVILLE
DUNSMUIR
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLITS
UKIAH
SUSANVILLE
CHICO
WILLIAMS
ORV
QUINCY
GERLACH
MARYSVILLE
SACRAMENTO
TRUCKEE
REN
LOVELOCK
PLACERVILLE
BKS
BRK
CNC
PCC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
FALLON
MNC
JAS
SONORA
GCC
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
SAO
MERCED
YOSEMITE
MNV
LLA
PRS
KING CITY
FRE
TONOPAH
BISHOP
PRI
SAN SIMEON
COALINGA
TULARE
LONE PINE
1 2 3 4 8 9 10 11 12 13 15 17 22 23 24 25 26 28 30 31 33 36 38 39 40 42 44 45 47 49 50 51 54 55 57 58 59 61 62 63 71


EARTHQUAKES
CENTRAL COAST RANGES
CALIFORNIA
JULY 01 TO DECEMBER 31, 1969
NUMBERS CORRESPOND TO LIST PRECEDING THIS MAP; NUMBERS UNDERLINED DENOTE SEVERAL EVENTS
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BXS
BRK
CMC
HAYWARD
PCC
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
BCC
GILROY
MONTEREY
HOLLISTER
SAO
MERCED
LOS BANOS
PRS
LLA
KING CITY
CAPE SAN MARTIN
FRESNO
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44
11
48
46
21
123°
122°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA, NEVADA, AND OREGON
January - June 1970

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jan 01	19 49 24	37° 36'	118° 40'	3.8	b(R)	13	35 km N of Bishop
1	Jan 01	19 50	37° 36'	118° 40'	3.2	b(R)	10	Aftershock of 19 49.
2	Jan 01	20 57 48	36° 44'	121° 25'	3.2	c	10	8 km SW of Hollister. Intensity V at Harris Ranch, S of Hollister.
3	Jan 03	02 51 58.4	37° 17.9'	122° 05.3'	3.7	b	25	Intensity VI at Cupertino, W of San Jose. Felt in San Francisco Peninsula area.
3	Jan 03	02 53 17.3	37° 17.9'	122° 05.3'	2.7	b	7	Aftershock of 02 51.
4	Jan 04	23 13 00.6	37° 07.5'	121° 31.2	3.4	b	16	15 km N of Gilroy. Intensity IV in Gilroy area.
5	Jan 05	03 46 52.0	37° 50.9'	121° 57.6'	2.5	b	10	25 km E. of Berkeley.
6	Jan 05	17 31 12.2	37° 31.3'	121° 50.1'	3.3	b	12	15 km S. of Livermore. Press reported a small tremor shook eastern San Jose and Sunol areas. Felt at Fremont, Newark, & Pleasanton.
7	Jan 06	02 29 07.5	36° 31.8'	121° 06.9'	4.0	b	19	Intensity V at Bacon Ranch, near the old Bear Valley School (Pinnacles - Bear Valley area). Felt in Hollister and Salinas.
7	Jan 06	02 56 06.5	36° 31.8'	121° 06.9'	2.8	b	12	Aftershock of 02 29.
8	Jan 06	08 34 55.0	37° 32.5'	121° 52.0'	2.8	c	12	15 km SW of Livermore.
9	Jan 06	10 55 16	40.9°	125.7°	4.0	b(R)	13	150 km W of Arcata.
10	Jan 14	15 42 20.5	38° 41.7'	122° 15.1'	3.1	b	10	50 km S of Williams.
11	Jan 14	18 44 21	37° 25'	118° 23'	3.3	a(R)	13	N of Bishop.
12	Jan 15	18 11 18	37° 32'	118° 22'	3.2	b(R)	11	N of Bishop.
13	Jan 17	08 39 16	39.4°	118.1°	3.7	a(R)	10	60 km E of Fallon, Nev.
14	Jan 21	17 13 30	39.1°	118.1°	3.2	b(R)	8	70 km SE of Fallon, Nev.
15	Jan 22	13 58 06.3	37° 59.5'	121° 59.1'	2.6	b	12	25 km NE of Berkeley.
16	Jan 25	20 21 24	37° 30'	118° 42'	3.6	a(R)	14	30 km NW of Bishop
17	Jan 25	20 39 59	39° 50'	120° 00'	3.0	a(R)	4	35 km N of Reno.
18	Jan 26	13 57 58.3	36° 32.7'	121° 11.3'	2.5	a	11	25 km W of LLA.
19	Jan 29	02 49 12.9	36° 06.5'	120° 59.6'	2.5	a	6	20 km SE of King City.
20	Jan 31	00 23 06.4	37° 48.1'	122° 06.4'	2.3	c	14	15 km SE of Berkeley. Felt at Oakland.
–	Jan 31	11 31 25	42° 08'	126° 36'	4.7	b(R)	10	260 km NW of Arcata.

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
-	Feb 01	19 33 31	40.5°	126.5°	3.5	c(R)	9	220 km W of Arcata.
21	Feb 01	21 19 45.7	36° 24.5'	121° 01.8'	2.6	b	12	30 km E of PRS.
22	Feb 04	16 22 32.3	36° 59.7'	121° 43.5'	2.5	b	14	10 km W of Gilroy.
23	Feb 08	00 14 13.3	36° 24.1	120° 57.9'	2.7	b	13	25 km S of LLA.
24	Feb 09	05 23 47.9	36° 47.6'	121° 33.3'	2.9	b	14	Intensity II at San Juan Bautista.
25	Feb 09	16 00 46.1	35° 46.0'	120° 20.8'	3.1	b	16	60 km S of PRI.
26	Feb 11	02 06 05.8	36° 37.8'	121° 18.2'	2.7	b	11	25 km S of Hollister.
27	Feb 14	00 31 59.1	36° 53.3'	121° 38.7'	3.0	b	14	Intensity IV at Harris Ranch, 20 km W of Hollister.
28	Feb 14	03 20 20	41.1°	125.4°	3.6	c(R)	12	120 km W of Arcata.
29	Feb 14	04 49 58	40.3°	125.0°	3.8	c(R)	13	100 km SW of Arcata. Intensity III at Ferndale.
30	Feb 14	15 44 58.0	36° 05.4'	120° 38.1'	2.8	b	14	5 km S of PRI.
31	Feb 14	19 49 19	38° 01'	118° 40'	3.0	a(R)	9	50 km N of Bishop.
38	Feb 15	07 32 10	40.2°	124.6°	3.5	d(R)	13	90 km SW of Arcata.
32	Feb 15	09 54 42	40° 22'	124° 52'	3.6	d(R)	13	90 km SW of Arcata.
33	Feb 19	17 46 32.4	37° 29.2'	121° 42.2'	2.4	b	10	15 km N of MHC.
34	Feb 26	08 36 50	37° 28'	118° 29'	3.2	a(R)	7	10 km N of Bishop.
35	Feb 27	04 01 32.1	36° 33.9'	121° 12.7'	3.0	a	14	35 km SE of Hollister.
35	Feb 27	04 02 41.5	36° 34.2'	121° 12.9'	2.6	b	11	Aftershock of 04 01.
36	Feb 28	02 05 00.1	37° 48.7'	121° 55.7'	2.9	a	14	20 km NW of Livermore. Felt in Danville.
37	Mar 01	07 16 38	40° 12'	124° 40'	3.2	b(R)	13	40 km W of Garberville.
38	Mar 01	16 40 13	40° 10'	124° 36'	3.9	b(R)	13	45 km W of Garberville.
39	Mar 06	11 55 52	39.0°	118.1°	3.1	b(R)	8	90 km E of Yerington.
40	Mar 07	14 12 16.5	37° 13.7'	121° 36.8'	2.8	a	15	25 km S of MHC.
41	Mar 12	11 45 14	37° 21'	118° 34'	3.0	b(R)	7	20 km W of Bishop.
42	Mar 12	13 12 34	40° 28'	123° 58'	3.8	c(R)	10	50 km S of Arcata. Intensity V at Carlotta, Ferndale, Miranda, Rio Dell, and Scotia. Slight shock felt in Ferndale at 12 17.
43	Mar 13	19 33 28	40° 07'	123° 08'	3.3	b(R)	9	60 km E of Garberville.
44	Mar 14	20 59 34	37° 25'	117° 51'	3.0	a(R)	7	50 km E of Bishop.
45	Mar 15	06 14 44.3	36° 32.0'	121° 08.5'	2.5	a	14	20 km W of LLA.

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
46	Mar 18	16 38 48	36° 17'	118° 19'	3.7	a(R)	12	50 km SW of Lone Pine.
46	Mar 18	16 40 24	36° 18'	118° 18'	3.4	b(R)	10	50 km SW of Lone Pine.
47	Mar 18	17 00 44	36° 17'	118° 24'	3.5	a(R)	12	55 km SW of Lone Pine.
48	Mar 20	10 18 46	37° 01'	118° 10'	3.2	b(R)	6	45 km S of Bishop.
49	Mar 20	11 22 13	36° 56'	117° 59'	3.1	b(R)	4	35 km NE of Lone Pine.
-	Mar 20	19 30 10	43.6°	127.3°	4.7	b(R)		USCGS location off Oregon Coast.
51	Mar 23	19 52 12	37° 45'	115° 59'	4.2	b(R)	18	220 km E of Bishop.
52	Mar 23	21 55 41	39° 36'	118° 09'	3.8	b(R)	11	55 km E of Fallon, Nev.
53	Mar 24	03 52 33	36° 16'	118° 20'	4.0	b(R)	19	50 km SW of Lone Pine. Intensity IV at Onyx. Intensity III at Olancha.
54	Mar 24	05 14 43	39° 35'	118° 04'	4.3	c(R)	14	60 km E of Fallon, Nev.
55	Mar 26	16 18 33	38° 37'	119° 18'	3.4	b(R)	13	45 km S of Yerington, Nev.
56	Mar 27	06 56 53.5	36° 48.6'	121° 35.9'	3.2	b	12	15 km W of Hollister.
56	Mar 27	16 08 12.4	36° 49.2'	121° 33.9'	3.1	a	11	Aftershock of 06 56.
56	Mar 27	17 27 25.0	36° 49.0'	121° 33.9'	2.7	a	11	Aftershock of 06 56.
57	Mar 28	06 48 58	37° 21'	118° 03'	3.0	a(R)	11	20 km E of Bishop.
58	Mar 28	09 38 44	38° 57'	116° 24'	4.5	a(R)	16	250 km E of Yerington, Nev.
59	Mar 29	17 35 11.8	36° 59.7'	121° 27.9'	2.5	b	11	15 km N of Hollister.
60	Mar 30	13 28 45.5	37° 18.7'	121° 40.9'	2.7	b	12	5 km S of MHC.
61	Mar 31	05 01 35.2	36° 52.1'	121° 38.0'	2.5	a	12	20 km W of Hollister.
62$	Mar 31	07 02 28.6	36° 51.5'	121° 25.1'	4.7	b	18	5 km E of Hollister. Intensity V at Boulder Creek, Daly City, Cienega Rd. to 13 miles south of Hollister, Coyote, Fremont, Gilroy (plaster cracked, damage slight), Hollister (plaster cracked; few jars fell from grocery store shelves), Morgan Hill, Paicines, Salinas, San Juan Bautista, and Watsonville.
63	Mar 31	08 23 36.5	36° 52.2'	121° 24.6'	2.1	b	13	Aftershock of 07 02.
64	Apr 01	13 48 41	40° 16'	124° 34'	3.3	c(R)	7	80 km SW of ARC.
65	Apr 05	03 18 01.3	36° 48.7'	121° 22.7'	2.4	b	12	5 km S of Hollister.

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
-	Apr 13	11 37 21	40° 17'	126° 36'	4.3	b(R)	12	220 km W of Arcata.
66	Apr 18	09 26 15.5	40° 36.7'	124° 32.0'	3.7	a	7	50 km SW of Arcata.
67	Apr 18	13 16 53.4	36° 29.5'	120° 00.7'	3.0	a	15	35 km SW of Fresno.
68	Apr 19	23 43 33.5	36° 34.5'	121° 12.7'	2.7	a	12	25 km W of LLA.
69	Apr 20	00 31 08.3	38° 30.2'	122° 46.7'	2.8	c	6	10 km NW of Santa Rosa.
70	Apr 21	22 29 25.9	35° 39.4'	120° 25.7'	3.0	a	8	65 km S of PRI.
32	Apr 22	22 32 22	40° 22'	124° 52'	4.0	a(R)	12	90 km SW of Arcata.
71	Apr 23	03 25 18.9	35° 58.4'	121° 27.1'	2.5	a	10	25 km SW of King City.
72	Apr 23	05 26 14	40° 14'	121° 23'	3.7	a(R)	12	15 km SE of MIN. Intensity IV at Mineral, III at Mill Creek. Felt at Chester and Mineral.
73	Apr 23	12 45 35.6	37° 55.6'	122° 19.2'	2.0	a	9	5 km N of Berkeley. Felt in San Pablo.
74	Apr 26	21 34 29	41.1°	121.9°	3.2	a(R)	5	30 km NW of Burney.
75	May 04	08 13 10	40.3°	125.2°	3.2	a(R)	4	120 km SW of Arcata.
76	May 05	02 18 27	36.2°	118.3°	3.4	a(R)	9	50 km SW of Lone Pine.
77	May 06	11 50 08	40° 10'	124° 35'	3.4	b(R)	6	90 km SW of Arcata. Intensity III at Ferndale and vicinity.
78	May 08	10 59 57.7	36° 35.4'	120° 24.5'	3.3	c(R)	12	30 km E of LLA.
79	May 13	04 24 22.6	36° 35.7'	121° 10.3'	2.6	b	14	15 km W of LLA.
80	May 14	07 57 02	37° 06'	121° 08'	2.5	a(R)	10	40 km NE of Hollister.
-	May 16	19 18 02	40° 23'	126° 48'	3.5	c(R)	8	240 km W of Arcata.
81	May 18	15 08 25	41° 27'	122° 49'	4.0	c	13	50 km NW of Dunsmuir. Intensity V at Callahan (rocks rolled off cliff; sounded like many booms) Edgewood, Fort Jones (small objects shifted, overturned, and fell; damage slight), Gazelle, Greenview, Sawyers Bar, Scott Bar. Felt in Eureka, Redding, and Yreka.
82	May 19	03 58 33	36° 33'	120° 20'	2.5	b	10	35 km E of LLA.
83	May 20	05 18 49.2	36° 35.2'	120° 21.7'	3.4	a	17	35 km E of LLA.
84	May 20	07 12 43	40° 14'	124° 11'	3.6	b(R)	12	70 km S of Arcata. Intensity V at Fortuna, Petrolia, Rio Dell, and Scotia--where many were awakened.

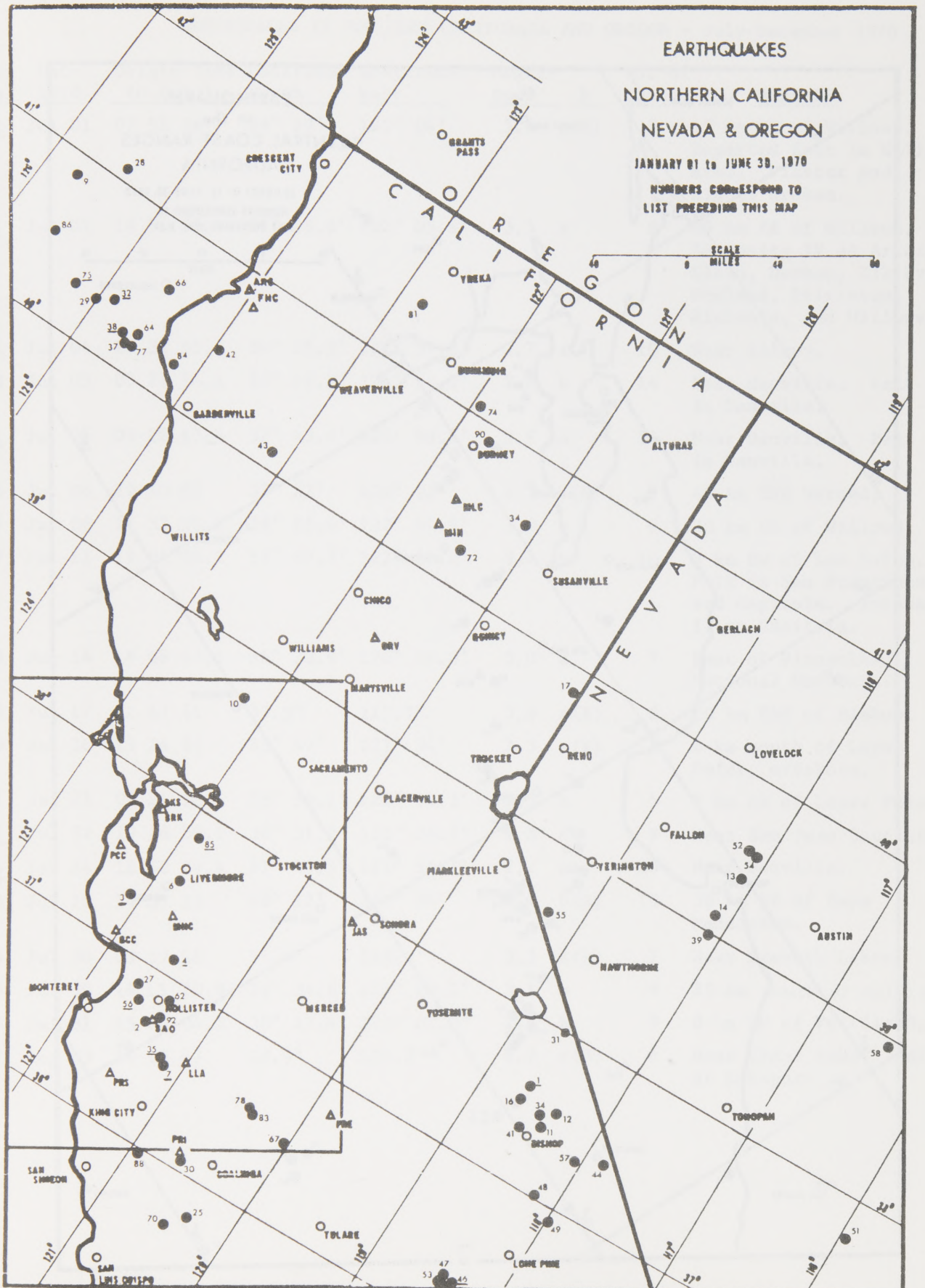
Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
85$	May 22	10 39 58.0	37° 50.1'	121° 55.7'	2.7	a	12	20 km E of Berkeley. Felt in Danville.
86	May 24	19 04 53	40.5°	125.6°	3.1	a(R)	4	140 km W of Arcata.
87	May 24	23 09 03.6	38° 27.4'	122° 09.6'	2.6	b	8	20 km NE of Napa.
87	May 24	23 10 41.5	38° 27.4'	122° 09.6'	2.6	b	8	Aftershock of 23 09.
88	May 27	10 42 19.3	35° 59.6'	120° 54.8'	3.4	a	8	40 km SW of Priest.
61	May 27	19 43 29.8	36° 51.2'	121° 38.0'	3.0	b	9	20 km W of Hollister.
75	May 30	18 42 29.0	40.3°	125.4°	3.5	c(R)		USCGS location 120 km SW of Arcata.
-	Jun 04	05 03 15	40.4°	128.0°	3.5	c(R)	9	350 km W of Arcata.
-	Jun 07	04 12 10	40° 20'	126° 27'	4.7	c(R)	10	210 km W of Arcata. Intensity IV at Ferndale.
89	Jun 08	08 01 32.8	36° 52.3'	122° 34.8'	2.7	a	10	55 km W of GCC.
-	Jun 10	07 58 09	40° 22'	126° 27'	3.7	c(R)	7	210 km W of Arcata.
85	Jun 12	03 30 04.0	37° 48.1'	121° 56.0'	4.3	b	8	Intensity VI at Danville where slight damage occurred. Press reported damage occurred to several windows, a fence, a chimney, several outside brick facades, and to hundreds of items shaken from store shelves. cf separate list of Danville earthquakes over magnitude 2.5.
4	Jun 12	10 37 19.2	37° 07.6'	121° 31.3'	3.0	b	11	15 km N of Gilroy.
90	Jun 13	08 55 01	40° 55'	121° 38'	4.0	a(R)	9	Intensity V at the McArthur-Burney State Park (north of Burney), Pit River Powerhouse No. 3 (near Burney), and Fall River Mills. No damage reported.
91	Jun 18	06 36 01.8	37° 06.6'	121° 31.7'	2.4	b	11	10 km N of Gilroy.
4	Jun 20	09 19 08.3	37° 07.1'	121° 32.0'	2.9	b	10	15 km N of Gilroy.
92	Jun 27	07 03 59.5	36° 45.7'	121° 22.7'	3.2	c	14	8 km S of Hollister.

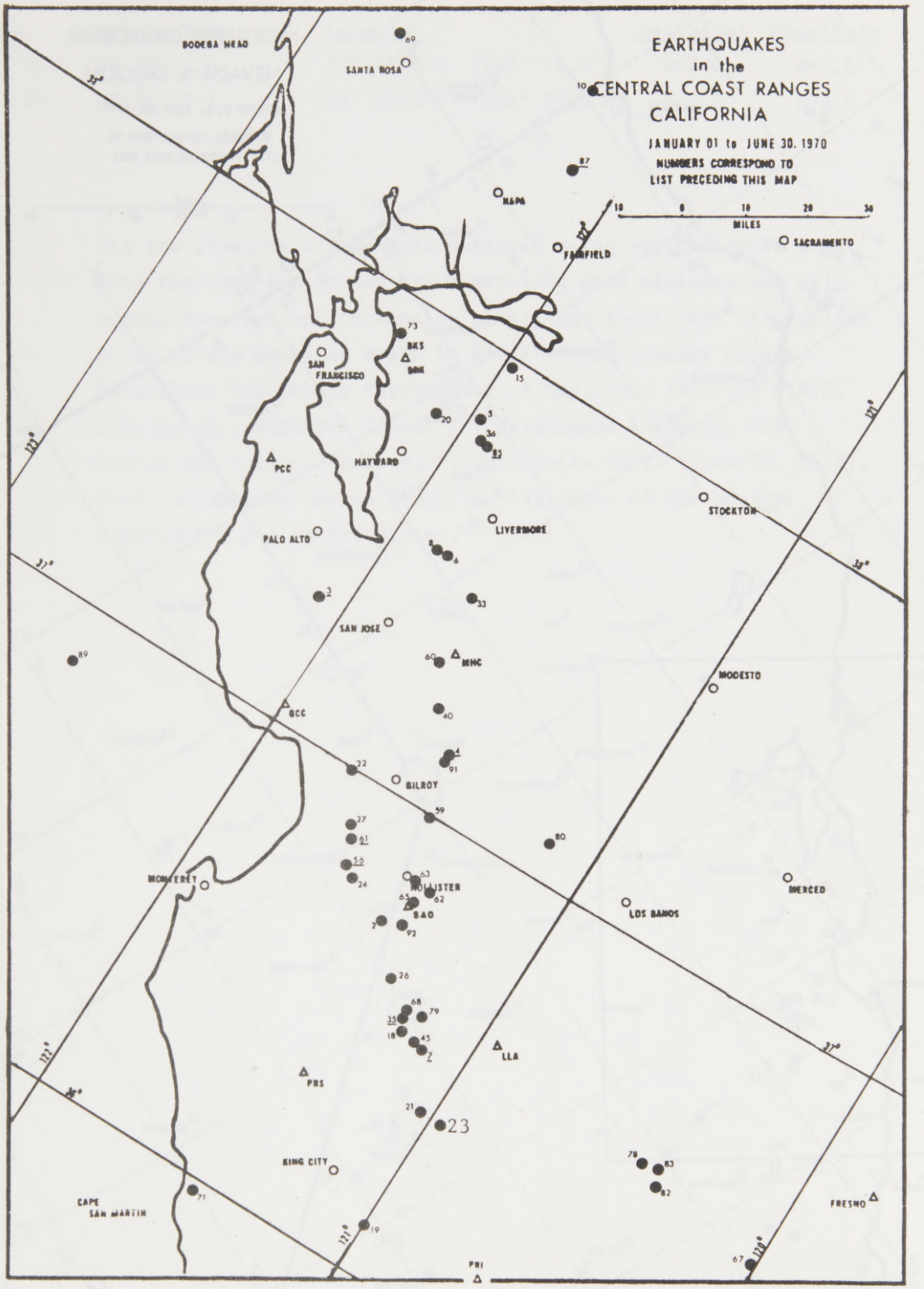
List of Magnitude $\geq$ 2.5 Earthquakes in the Area of Danville, California, May - June 1970

Date	Origin Time	Location		Depth(km)	Magnitude
May 22	10 39 58.0	37° 50.1'N	121° 55.7'W	h=3.9	M=2.7
May 25	00 42 41.7	37° 48.8'N	121° 56,8'W	h=7.8	M=2.8
May 25	08 13 33.2	37° 48.0'N	121° 56.9'W	h=5.3	M=2.7
May 25	18 42 29.6	37° 48.7'N	121° 56.6'W	h=7.6	M=2.7
May 25	18 43 00.7	37° 48.3'N	121° 56.8'W	h=6.4	M=2.9
May 26	22 10 24.2	37° 48.0'N	121° 56.4'W	h=4.1	M=3.0
May 26	22 10 35.2	37° 48.0'N	121° 56.4'W	h=4.1	M=3.5
May 26	22 19 55.6	37° 47.9'N	121° 56.6'W	h=4.3	M=2.5
May 26	23 06 44.1	37° 49.3'N	121° 55.8'W	h=9.1	M=2.8
May 26	23 33 39.9	37° 47.9'N	121° 56.9'W	h=3.9	M=3.8
May 28	02 47 05.6	37° 48.8'N	121° 56.7'W	h=6.6	M=2.6
May 29	02 53 08.3	37° 49.2'N	121° 56.7'W	h=8.7	M=3.4
May 29	02 55 49.5	37° 48.1'N	121° 56.5'W	h=6.7	M=3.5
May 29	03 13 15.8	37° 49.2'N	121° 55.8'W	h=8.7	M=3.1
Jun 11	23 32 56.2	37° 47.5'N	121° 56.5'W	h=7.2	M=3.4
Jun 11	23 39 49.7	37° 47.9'N	121° 56.5'W	h=8.8	M=3.0
Jun 11	23 48 35.7	37° 46.6'N	121° 56.6'W	h=8.5	M=2.6
Jun 12	00 39 25.0	37° 48.9'N	121° 56.6'W	h=8.6	M=3.3
Jun 12	03 30 04.0	37° 48.1'N	121° 56.0'W	h=9.1	M=4.3
Jun 12	03 30 55.0	37° 48.1'N	121° 56.0'W	h=9.1	M=3.9
Jun 12	03 33 48.8	37° 46.9'N	121° 56.3'W	h=5.4	M=2.6
Jun 12	03 57 49.6	37° 47.6'N	121° 55.8'W	h=9.1	M=2.7
Jun 12	04 06 00.2	37° 48.5'N	121° 55.3'W	h=3.6	M=2.8
Jun 12	06 34 01.4	37° 47.7'N	121° 55.9'W	h=9.6	M=3.1
Jun 12	16 03 32.1	37° 48.3'N	121° 56.3'W	h=8.7	M=4.2
Jun 12	16 10 51.4	37° 48.0'N	121° 55.7'W	h=9.6	M=3.2
Jun 12	17 10 50.7	37° 48.6'N	121° 56.9'W	h=8.4	M=2.6
Jun 12	18 00 49.6	37° 47.8'N	121° 55.9'W	h=9.0	M=2.6
Jun 12	22 54 39.3	37° 51.0'N	121° 56.8'W	h=14.1	M=3.1
Jun 14	09 11 09.8	37° 48.6'N	121° 57.0'W	h=10.9	M=2.7
Jun 14	09 18 10.2	37° 48.7'N	121° 56.1'W	h=9.0	M=3.0
Jun 28	21 19 21.3	37° 48.4'N	121° 56.7'W	h=2.0R	M=2.5

Date	Origin Time	Location		Depth(km)	Magnitude
Jul 05	05 27 54.0	37° 48.3'N	121° 56.0'N	h=7.0	M=2.6
Jul 05	05 28 47.1	37° 48.5'N	121° 56.3'N	h=7.6	M=2.9

All the above solutions were obtained using well-recorded data from the same 8 stations which provided good distance and azimuthal coverage and internally consistant locations. A complete study of the Danville swarm is found in preliminary report, "Danville, California Earthquakes of May, June 1970" by W.H.K. Lee, et al., National Center for Earthquake Research, U.S. Geological Survey, Menlo Park, California 94025 (June 19, 1970). Felt information may be found in "Abstracts of Earthquake Reports for the United States."


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JANUARY 01 to JUNE 30, 1970
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
YREKA
WEAVERVILLE
BURNEY
ALTURAS
WILLITS
CHICO
SUSANVILLE
WILLIAMS
GERLACH
MARYSVILLE
SACRAMENTO
PLACERVILLE
TRUCKEE
RENO
LOVELOCK
FALLON
STOCKTON
LIVERMORE
MARKLEEVILLE
YERINGTON
SONORA
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
KING CITY
TONOPAH
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE
SAN LUIS OBISPO


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 01 to JUNE 30, 1970
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
HAYWARD
PCC
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
BCC
GILROY
HOLLISTER
SAO
MONTEREY
MERCED
LOS BANOS
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
PRI
23

EARTHQUAKES IN NORTHERN CALIFORNIA AND OREGON - July-December 1970

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jul 01	07 55 26	39° 29'	122° 04'	3.6	c(R)	7	15 km SE of Willows. Reported felt in Willows area. Plaster and dishes broken.
1	Jul 01	18 56 59.4	39° 28.6'	122° 05.1'	3.5	a	8	20 km SE of Willows. Intensity IV at Artois, Glenn, Durham, Elk Creek, Ordland, Princeton, Richvale, and Willows.
2	Jul 04	11 31 55.0	36° 58.2'	121° 37.8'	2.7	a	10	Near Gilroy.
3	Jul 05	05 27 54.1	37° 49.8'	121° 56.2'	2.6	b	14	Near Danville. Felt in Danville.
4	Jul 05	05 28 47.4	37° 48.6'	121° 55.6'	2.9	a	14	Near Danville. Felt in Danville.
5	Jul 06	10 10 02	37° 22'	120° 02'	2.7	a(R)	7	45 km ENE Merced.
6	Jul 06	11 52 29.2	39° 22.6'	122° 01.9'	3.0	a	6	20 km SE of Willows.
7	Jul 11	19 01 04.2	37° 07.7'	122° 01.8'	3.4	b	10	8 km SW of Los Gatos. Felt in San Francisco and Capitola. Intensity II at Capitola.
8	Jul 14	18 08 42.4	36° 30.9'	120° 24.5'	3.0	a	7	East of Pinnacles National Monument.
9	Jul 17	12 47 41	37.5°	117.7°	3.9	a(R)	6	50 km ENE of Bishop.
10	Jul 20	23 24 55	35° 57'	121° 34'	2.5	a(R)	5	8 km south of Lopez Point, offshore.
11	Jul 21	05 24 16.1	35° 59.1'	121° 34.3'	2.5	b	5	5 km SE of Lopez Point.
12	Jul 22	19 28 59.2	36° 51.2'	121° 36.7'	2.8	a	9	Near San Juan Bautista.
4	Jul 24	18 50 29.9	37° 49.3'	121° 55.7'	2.7	a	10	Near Danville.
13	Jul 25	14 37 15	40° 12'	124° 39'	3.1	b(R)	10	30 km SE of Cape Mendocino.
14	Jul 30	09 57 14	37.6°	118.9°	3.3	a(R)	7	Near Mammoth Lakes.
15$	Jul 30	14 13 20.9	36° 34.6'	121° 20.1'	3.1	b	9	25 km south of Hollister
16	Jul 31	15 04 04.5	38° 17.4'	122° 07.3'	2.8	b	9	8 km NW of Fairfield.
17	Aug 03	10 04 47	38.9°	122.5°	2.7	c(R)	6	Near Clear Lake. Felt at Lakeport.

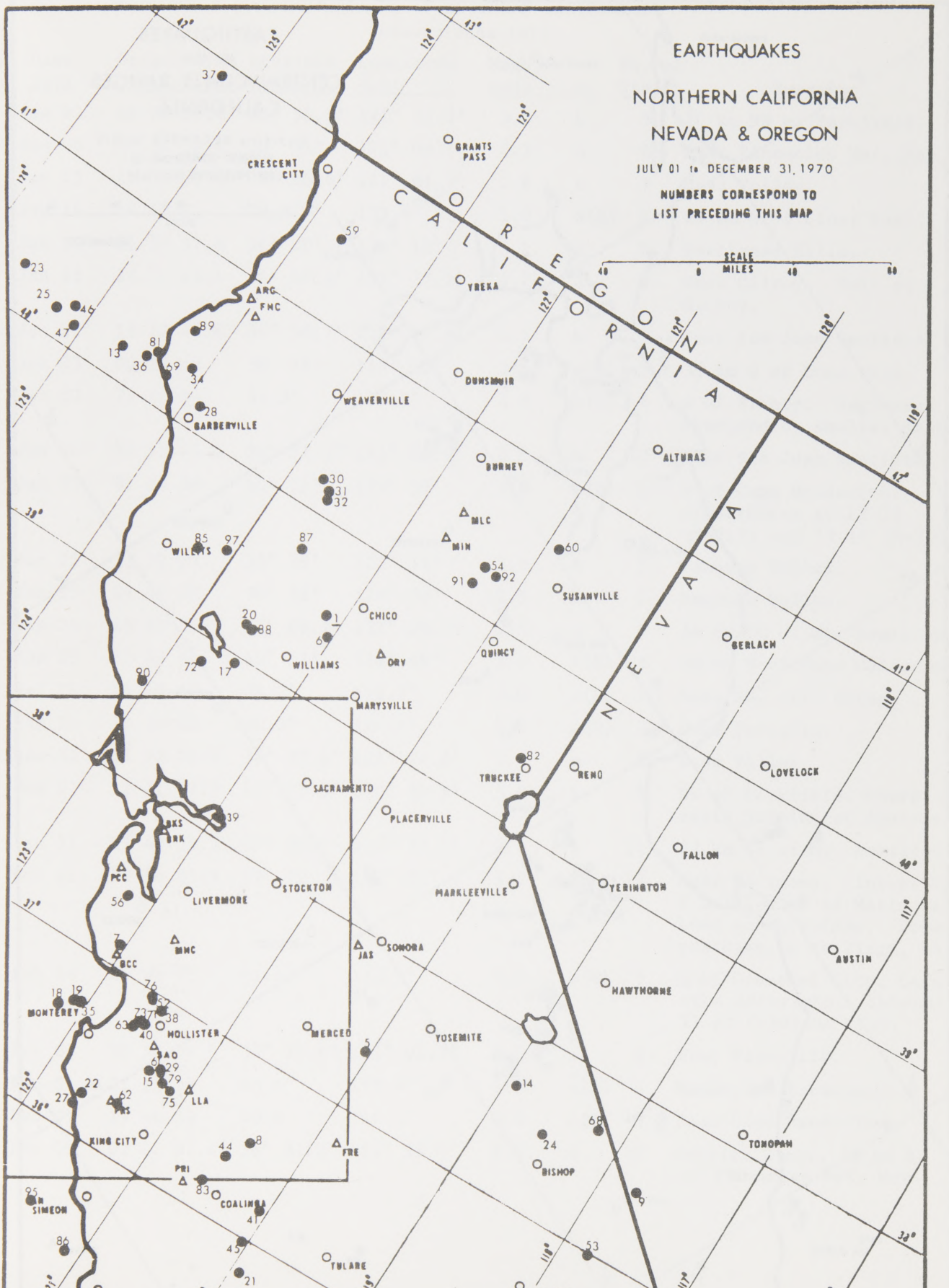
Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
18	Aug 04	04 14 21.4	36° 38.8'	122° 11.1'	4.7	b	11	Monterey Bay. Intensity VI. Felt strongly in Fort Ord. Felt in the San Francisco Bay Area. Water mains broken. Some telephone lines knocked down. At Carmel Valley, swimming pool cracked, redwood beams in buildings twisted.
19	Aug 04	04 44 06.7	36° 42.5'	122° 04.3'	3.2	a	10	Monterey Bay.
20	Aug 05	04 10 18	39° 12'	122° 37'	3.3	a(R)	9	East of Clear Lake.
21	Aug 05	06 47 36.4	35° 49.1'	119° 56.1'	2.9	b	8	Kettleman Hills.
22	Aug 05	16 51 45.7	36° 13.7'	121° 41.4'	3.0	b	11	25 km SW of Paraiso.
23	Aug 05	19 09 04	40.3°	125.8°	3.4	a(R)	8	Mendocino escarpment.
24	Aug 08	01 01 50.1	37° 28.7'	118° 33.8'	3.1	a	6	NW of Bishop.
25	Aug 09	02 53 45	40.2°	125.2°	3.6	a(R)	5	Mendocino escarpment.
26	Aug 11	09 56 30.5	37° 54.3'	122° 14.5'	2.4	b	10	Berkeley. Felt at Berkeley.
27	Aug 13	05 06 19.8	36° 10.4'	121° 42.2'	3.7	b	11	20 km W of Lopez Point.
28	Aug 14	06 28 47.5	40° 09.3	123° 53.7'	4.0	a	7	Near Garberville. Intensity V at Bridgeville, Carlotta, Eureka, Ferndale, Fields Landing, Fort Seward, Loleta, Redway, and Rio Dell. No damage.
29	Aug 16	16 29 05.2	36° 38.0'	121° 18.1'	3.5	b	9	16 km SE of Hollister. Intensity IV at Carmel and Spreckels.
30	Aug 19	06 54 25	40° 12'	122° 45'	4.1	b(R)	10	15 km SW of Redding. Intensity IV at Igo, Ono, Platina, and Redding.
31	Aug 19	09 41 41	40.1°	122.7°	3.3	a(R)	4	SW of Redding.
32	Aug 19	09 43 39	40.1°	122.6°	3.4	a(R)	5	SW of Redding.
33	Aug 21	03 22 38.6	37° 52.9'	122° 15.4'	2.5	b	14	Berkeley. Felt in Berkeley.
34	Aug 22	20 45 04	40.3°	124.1°	3.9	a(R)	6	Near Petrolia. Intensity IV at Ferndale.

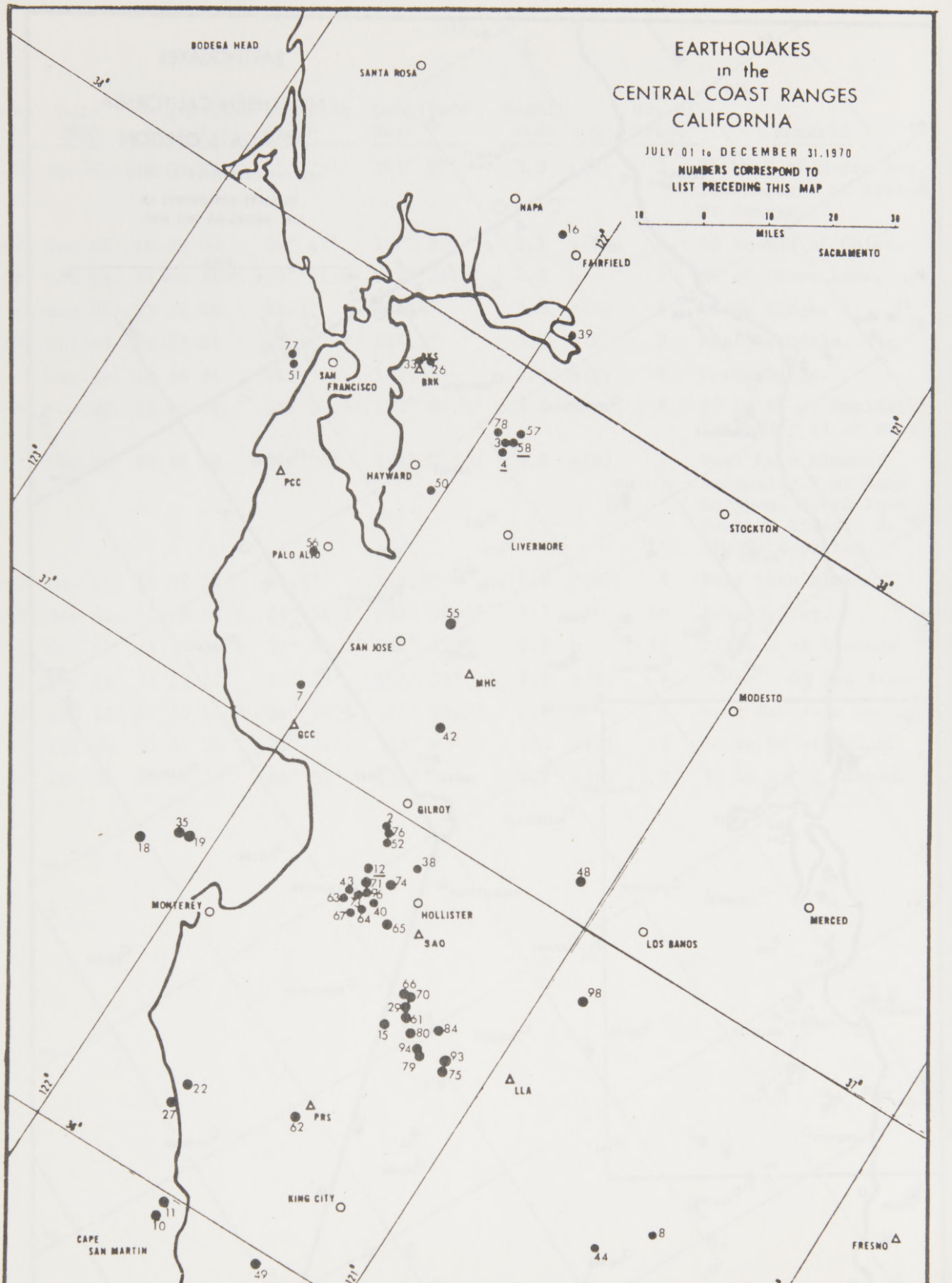
Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
35	Aug 23	17 53 47.4	36° 42.3'	122° 06.2'	3.4	a	9	Monterey Bay. Intensity IV at Capitola and Monterey.
36	Aug 24	19 40 49	40.2°	124.5°	3.1	a(R)	3	Near Petrolia.
37	Aug 28	10 37 54	41.9°	125.4°	3.7	a(R)	5	90 km W of Crescent City.
38	Aug 30	13 16 50.9	36° 54.6	121° 29.4'	3.6	b	11	8 km NW of Hollister. Intensity V at Hollister and San Juan Bautista. No damage.
39	Aug 31	12 12 58.7	38° 06.4'	121° 56.8'	3.6	b	9	4 km N of Pittsburg. Intensity IV at Martinez and Port Costa. Felt in Pittsburg and Concord.
40	Sep 02	02 25 35.6	36° 48.0'	121° 33.4'	3.3	a	11	6 km S of San Juan Bautista.
41	Sep 05	11 29 11	36.2°	120.1°	3.1	b(R)	4	ENE of Coalinga.
42	Sep 05	22 15 56.1	37° 13.4'	121° 39.0'	2.5	b	9	5 km E of Coyote.
43	Sep 08	08 09 06.8	36° 48.5'	121° 37.2'	2.7	a	12	5 km SW of San Juan Bautista.
44	Sep 10	23 45 59	36° 24'	120° 30'	3.2	a(R)	11	30 km NW of Coalinga.
45	Sep 11	15 20 08	35° 59'	120° 03'	3.3	a(R)	9	8 km E of Avenal.
46	Sep 12	02 53 18	40.2°	125.1°	3.3	c(R)	5	Mendocino escarpment.
47	Sep 13	21 10 21	40° 08'	125° 05'	5.4	a(R)	9	Mendocino escarpment. Intensity V at Ferndale, Fort Seward, Rio Dell area, and Scotia.
48	Sep 16	04 24 12.8	37° 05.2'	121° 05.3'	2.5	a	11	20 km W of Los Banos.
49$	Sep 16	18 22 10.7	35° 57.8'	121° 16.1'	2.6	a	7	SW of King City.
50	Sep 18	00 36 56.3	37° 38.8'	122° 02.4'	2.7	b	12	5 km SE of Hayward. Intensity IV. Felt in Hayward and San Leandro.
51	Sep 18	02 29 49.9	37° 42.9'	122° 32.1'	2.5	a	8	3 km W of San Francisco. Intensity IV at Mt. Davidson. Felt throughout San Francisco.
52	Sep 18	09 34 12.9	36° 56.3'	121° 35.9'	3.1	b	13	15 km E of Watsonville.
53	Sep 19	16 27 27	37.0°	117.8°	3.8	a(R)	6	40 km SE of Tinemaha.

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
54	Sep 20	08 37 21.4	40° 16.0'	121° 17.9'	3.5	a	12	Near Lake Alamanor.
55	Sep 22	23 59 47.6	37° 26.0'	121° 47.5'	2.7	a	10	7 km S of Calaveras Reservoir.
56	Sep 23	04 51 27.9	37° 23.9'	122° 13.1'	3.5	a	9	6 km S of Palo Alto. Felt from San Francisco to Palo Alto (Intensity IV?)
57	Sep 23	08 38 04.1	37° 52.3'	121° 54.4'	2.7	b	9	Near Mt. Diablo. Felt in Danville.
4	Sep 25	19 58 30.2	37° 48.5'	121° 55.3'	2.9	a	9	Danville.
58	Sep 26	00 44 26.6	37° 50.4'	121° 54.7'	2.8	b	8	Near Danville.
59$	Sep 27	03 37 04	41.5°	123.7°	3.7	a(R)	5	50 km SE of Crescent City.
60	Sep 27	18 24 32	40° 37'	120° 55'	3.7	a(R)	7	NW of Susanville.
61	Oct 01	07 37 44.1	36° 37.7'	121° 17.3'	3.2	b	11	16 km SE of Hollister.
62	Oct 07	17 57 06.3	36° 18.0'	121° 24.0'	2.5	a	9	30 km NW of King City.
63	Oct 08	17 29 18.5	36° 46.6'	121° 36.6'	3.0	a	8	8 km N of Salinas. Felt at Harris Ranch, 7 miles S of Hollister.
64	Oct 10	10 31 41.6	36° 46.5'	121° 33.2'	2.5	a	11	10 km NE of Salinas.
65	Oct 12	02 15 46.8	36° 46.8'	121° 28.5'	2.4	b	10	17 km NE of Salinas. Felt at Harris Ranch, 7 miles S of Hollister.
66	Oct 17	08 17 01.6	36° 39.1'	121° 20.0'	2.8	b	11	20 km S of Hollister.
67	Oct 17	11 41 25	36° 48'	121° 35'	2.8	a(R)	9	6 km SW of San Juan Bautista.
68	Oct 25	09 20 55	37.7°	118.2°	3.1	a(R)	3	Near White Mountains.
69	Oct 26	14 46 15	40.2°	124.2°	3.4	c(R)	5	Near Petrolia. Intensity IV at Eureka, Ferndale, Fortuna, Mattole Valley and Rio Dell.
-	Oct 27	00 33 42	36° 08'	118° 29'	3.1	a(R)	8	Near Sirretta Peak.
-	Oct 27	00 34 02	36° 07'	118° 30'	3.4	b(R)	8	Near Sirretta Peak.
-	Oct 27	02 37 58	40.4°	127.0°	5.1	d	-	Gorda Ridge (National Ocean Survey)
-	Oct 27	04 23 38	40.3°	127.2°	4.2	d	-	Gorda Ridge (National Ocean Survey)

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
-	Oct 27	06 08 51	40.4°	127.2°	3.3	a(R)	3	Gorda Ridge.
-	Oct 27	10 14 27	40.3°	126.7°	4.6	d	-	Near Gorda Ridge (National Ocean Survey)
-	Oct 27	13 39 57	40.2°	127.0°	3.8	a(R)	4	Gorda Ridge.
70	Nov 02	23 21 13.1	36° 39.8'	121° 18.7'	2.5	a	7	North of Pinnacles National Monument.
71	Nov 03	05 25 50.4	36° 49.4'	121° 34.8'	3.2	a	9	Near San Juan Bautista.
72	Nov 04	06 40 42	38° 50'	122° 45'	2.9	c(R)	9	15 km SW of Clear Lake.
58	Nov 07	13 45 08.5	37° 50.1'	121° 55.5'	2.7	c	9	Near Danville.
73	Nov 09	00 52 06.0	36° 48.0'	121° 35.2'	3.1	a	12	8 km SW of San Juan Bautista. Intensity IV at Harris Ranch, 7 miles S of Hollister.
74	Nov 09	01 18 12.6	36° 51.0'	121° 31.6'	2.6	a	9	Near San Juan Bautista.
75	Nov 09	11 37 22.1	36° 34.1'	121° 07.3'	3.0	b	9	10 km SW of Llanada.
76	Nov 09	13 35 52.1	36° 57.5'	121° 36.6'	3.5	b	9	8 km SW of Gilroy. Intensity V at Gilroy and LaSilva Beach. Felt in Watsonville. No damage.
77	Nov 10	11 19 39.3	37° 44.3'	122° 34.7'	2.6	a	7	West of San Francisco. Reported felt. No damage.
78	Nov 12	21 10 22.9	37° 50.5'	121° 58.0'	2.7	a	7	Near Danville.
79	Nov 14	18 03 58.6	36° 33.9'	121° 12.3'	3.3	a	7	24 km NW of Llanada.
12	Nov 15	00 36 20.3	36° 51.0'	121° 36.2'	2.6	a	10	Near San Juan Bautista.
80	Nov 15	18 19 32.4	36° 35.5'	121° 13.8'	3.4	b	10	25 km NW of Llanada.
52	Nov 16	14 52 08.6	36° 56.2'	121° 35.2'	2.7	a	9	15 km E of Watsonville.
81	Nov 17	00 46 08	40.3°	124.4°	3.1	a(R)	4	Near Petrolia. Felt in Ferndale.
82$	Nov 21	09 29 17	39° 24'	120° 16'	3.1	a(R)	7	Near Truckee. Intensity IV at Floriston.
83$	Nov 25	11 41 52.0	36° 10.5'	120° 33.4'	2.5	a	5	10 km SE of Priest.
84	Nov 26	06 37 16.1	36° 38.4'	121° 12.0'	2.7	a	8	25 km W of Llanada.
85	Nov 26	15 35 20	39.5°	123.2°	3.1	a(R)	4	Near Willits. Intensity V at Willits. No damage reported.

Map No.	Date 1970	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
86$	Dec 01	06 05 59	35° 23'	121° 08'	3.3	c(R)	7	25 km W of Morro Bay. Intensity V at Bryson. No damage.
87	Dec 02	10 53 08	39° 47'	122° 36'	3.1	a(R)	4	50 km WNW of Chico.
88	Dec 03	14 58 32.5	39° 11.9'	122° 31.3'	2.8	b	5	NE of Clear Lake.
-	Dec 05	13 59 48	40.3°	126.4'	3.6	a(R)	4	Gorda Ridge.
89	Dec 06	01 57 28	40.5°	124.3°	3.2	b(R)	3	Near Ferndale.
-	Dec 06	20 36 34	40.3°	127.5°	3.5	a(R)	4	Gorda Ridge.
90	Dec 07	23 26 50.7	38° 39.9'	123° 04.0'	3.2	a	8	15 km NW of Healdsburg. Intensity II at Windsor.
91	Dec 09	09 35 48	40° 09'	121° 21'	3.6	a(R)	7	Near Lake Almanor. Intensity V at Camp Caribou, North Fork of Feather River. No damage reported.
92	Dec 10	15 07 24	40.2°	121.2°	2.8	c(R)	5	Near Lake Almanor.
93	Dec 11	03 56 48.6	36° 34.5'	121° 08.4'	2.5	a	10	Bear Valley.
94	Dec 11	11 33 00.4	36° 34.7'	121° 13.5'	2.7	b	11	25 km W of Llanada.
95	Dec 12	22 29 20	35° 39'	121° 33'	2.5	a(R)	6	30 km W of San Simeon.
96	Dec 18	17 00 14.0	36° 48.6'	121° 33.8'	2.8	a	9	Near San Juan Bautista.
97	Dec 20	05 47 28	39° 31'	123° 03'	3.0	a(R)	6	50 km NE of Ukiah.
98	Dec 31	14 56 35	36° 52'	120° 54'	2.9	a(R)	9	28 km NE of Llanada.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 01 to DECEMBER 31, 1970
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
EUREKA
ARC
FNC
DUNSMUIR
WEAVERVILLE
GARBERVILLE
BURNEY
ALTURAS
MLC
MIN
WILLOWS
SUSANVILLE
CHICO
WILLIAMS
ORV
QUINCY
BERLACH
MARYSVILLE
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
FALLON
PCC
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
BKS
BRK
MHC
BCC
JAS
SONORA
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
BAO
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SIMEON
COALINGA
TULARE


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JULY 01 to DECEMBER 31,1970
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BRK
HAYWARD
PCC
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
SAO
MERCED
LOS BANOS
LLA
PRS
KING CITY
CAPE
SAN MARTIN
FRESNO
122°
121°
37°
36°

EARTHQUAKES IN NORTHERN CALIFORNIA

January-June 1971

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jan 02	06 27 37.5	35° 55.1'	120° 32.3'	3.0	b	8	10 km NW of Parkfield.
2	Jan 08	05 31 37.6	36° 31'	121° 09'	2.7	a	6	Near Pinnacles Nat. Mon.
3	Jan 13	17 36 44.4	36° 26.4'	121° 01.7'	2.8	c	7	Bear Valley.
4	Jan 14	14 43 01	39.8°	122.8°	3.0	a(R)	6	65 km N of Clear Lake.
5	Jan 16	05 33 27.8	36° 00'	120° 12'	3.1	c	8	Kettleman Hills.
6	Jan 18	23 31 19.4	36° 57.4'	121° 37.2'	2.7	a	9	Near Gilroy. Felt at Gilroy.
7	Jan 21	13 11 43.6	36° 50.7'	121° 37.8'	3.1	b	9	Near San Juan Bautista.
8	Jan 23	00 53 12	36° 19'	118° 10'	3.3	a(R)	5	30 km S of Lone Pine.
9	Jan 23	21 52 06	37.3°	118.7°	3.0	a(R)	4	W of Bishop. Beginning obscured by smaller quake.
10	Jan 24	01 41 03.9	36° 51.1'	121° 36.5'	2.6	b	10	Near San Juan Bautista.
11	Jan 25	01 34 38	40° 15'	124° 38'	3.2	c(R)	6	W of Cape Mendocino. Aftershocks at 13 03 (M=2.7) and 17 17 (M=3.0).
12	Jan 25	13 32 28	36° 38'	120° 49'	2.5	b	7	Panoche Valley.
12	Jan 25	14 22 38	36° 38'	120° 50'	2.5	b	7	Panoche Valley.
13	Jan 25	15 49 21.3	37° 09.7'	121° 29.7'	2.5	a	9	24 km SE of Mt. Hamilton
14	Jan 25	17 16 54	40° 17'	124° 49'	3.2	c(R)	5	50 km W of Cape Mendocino.
15	Jan 26	21 53 53	35.2°	120.7°	3.0	a(R)	7	Near San Luis Obispo
16	Jan 29	11 11 53	40.3°	124.4°	3.0	a(R)	3	Near Petrolia.
17	Jan 31	01 33 59.9	36° 27.8'	121° 04.9'	2.5	a	8	Bear Valley.
1	Jan 31	12 22 49.5	35° 55.6°	120° 30.6'	3.8	b	8	NW of Parkfield. Sharp, rapid jolting at Shandon.
18	Jan 31	21 42 35.5	37° 09.7'	121° 32.7'	2.9	a	11	22 km SE of Mt. Hamilton.
19	Feb 01	22 16 05.9	37° 22'	120° 01'	3.2	b	12	Near Mariposa. Intensity V 2-1/2 mi N of Mariposa. Loud earth noises. Some cracking in ceilings, walks.
20	Feb 04	08 45 16	41.4°	123.5°	3.6	a(R)	5	SE of Crescent City. Location uncertain. Intensity II at Crescent City.
21	Feb 05	20 50 34.6	38° 19.6'	122° 02.3'	2.8	a	8	Near Vacaville.
22	Feb 06	21 13 37	40.5°	125.6°	4.0	a(R)	8	Mendocino Escarpment.
23	Feb 07	17 46 28	40.6	124.5°	3.0	c(R)	5	Near Cape Mendocino.
24	Feb 09	02 07 01.4	36° 37.2'	121° 18.0'	2.8	a	10	Gabilan Range, 15 km NE of Pinnacles Nat. Mon.

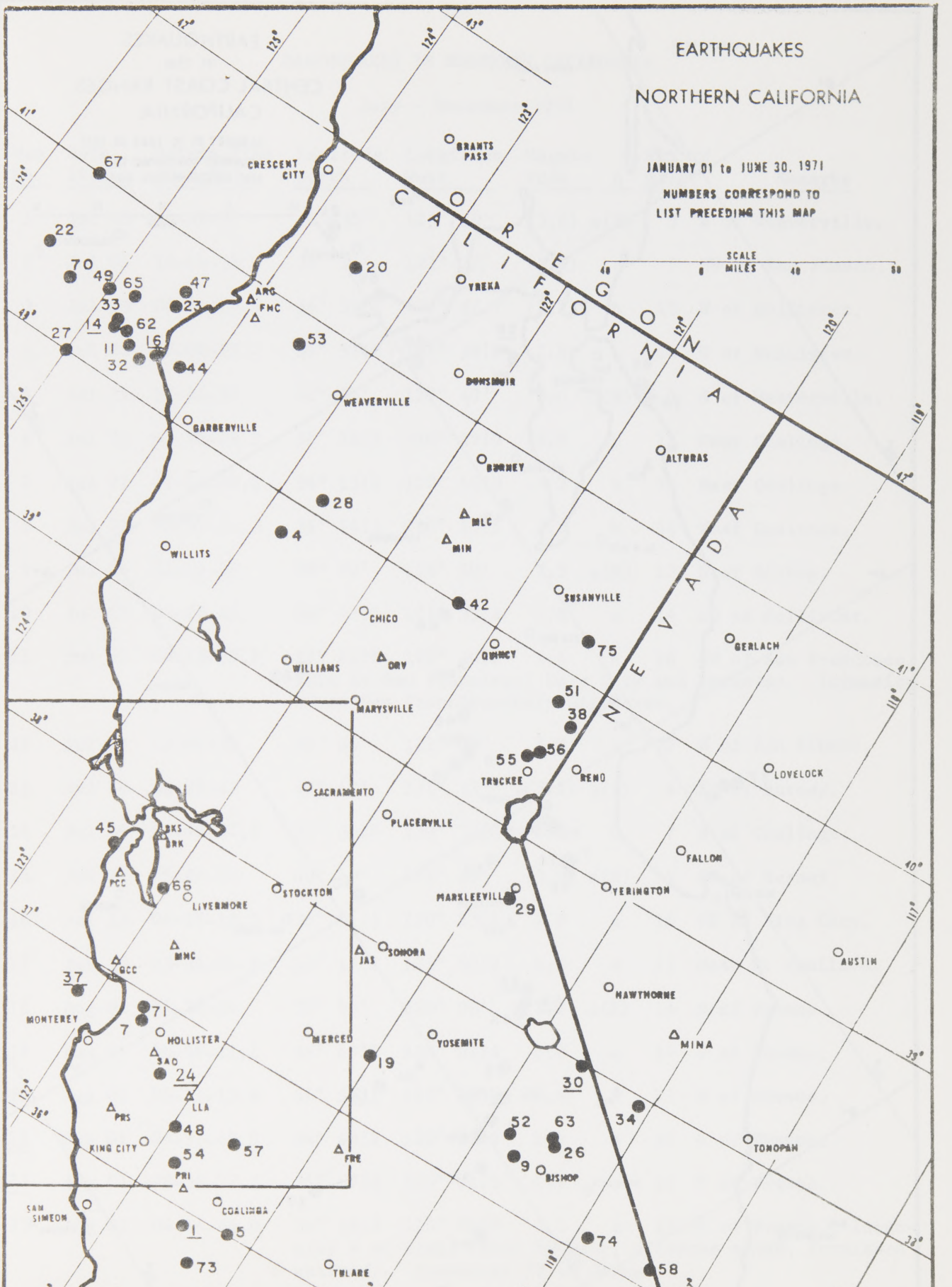
Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas	Remarks
14	Feb 13	07 28 55	40.3°	124.8°	3.3	c(R)	5	Mendocino Escarpment.
25	Feb 13	18 18 11.3	36° 38.5'	121° 19.5'	2.7	b	7	Gabilan Range, E of Salinas.
25	Feb 15	23 39 44.0	36° 38.4'	121° 19.5'	2.8	a	8	Gabilan Range, E of Salinas.
26	Feb 18	12 16 32	37° 29'	118° 29'	3.3	a(R)	7	Near Bishop. Intensity V. Awakened many at Control Gorge Power Plant, 15 mi. NW of Bishop.
27	Feb 18	22 54 34	40.0°	125.0°	3.3	a(R)	3	W of Cape Mendocino.
28	Feb 19	17 51 24	40.1°	122.7°	3.0	a(R)	3	W of Red Bluff.
29	Feb 19	23 01 41.5	38° 38'	119° 48'	3.1	a(R)	5	40 km SE of Lake Tahoe.
30	Feb 20	12 57 43.5	37° 59'	118° 37'	3.9	a(R)	11	30 km E of Mono Lake. Rolling shock at Control Gorge Power Plant 15 mi NW of Bishop. Awakened few, Intensity IV.
31	Feb 22	20 39 13.2	37° 05.6'	121° 58.5'	2.8	c	13	North of Santa Cruz. Intensity II at Capitola. Reported felt in Boulder Creek.
32	Feb 23	18 04 17	40.2°	124.5°	3.3	a(R)	4	Near Cape Mendocino. Intensity IV at Eureka and Ferndale.
30	Feb 26	03 56 06.4	38° 00'	118° 34'	3.8	a(R)	13	30 km E of Mono Lake.
14	Feb 27	00 31 37.7	40° 16'	124° 50'	5.2	a(R)	9	Mendocino Escarpment. Felt from N of Eureka to Fort Bragg area. Max. Intensity V. No damage reported. Felt by many at Eureka. At Ferndale vehicles rocked and utility poles swayed, three windows cracked. Felt by all at Shelter Cove; small objects shifted. Near Scotia man had difficulty keeping balance. Small objects shifted at Rio Dell.

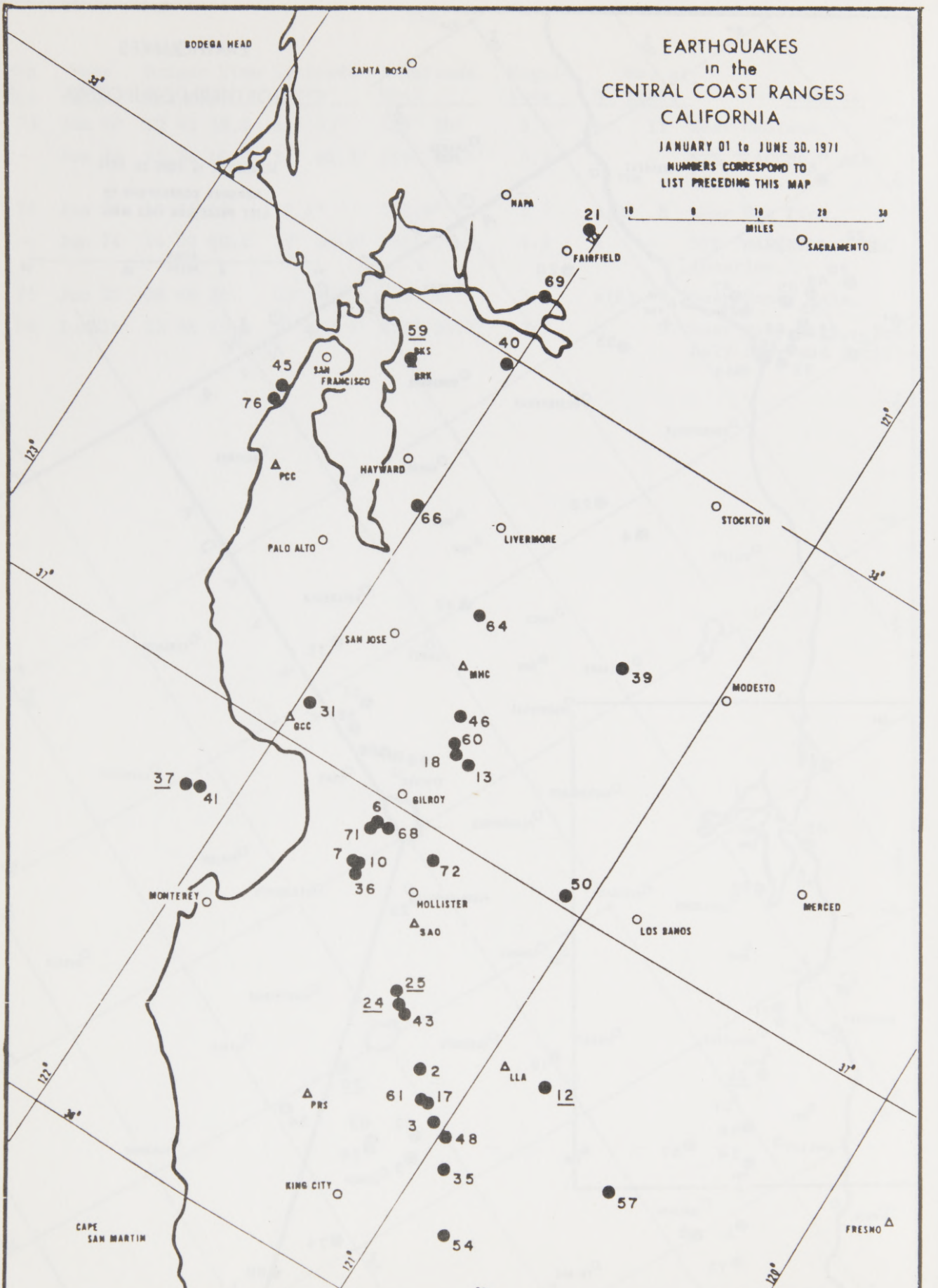
Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
33	Feb 27	01 56 38	40° 19'	124° 49'	3.8	c(R)	8	Mendocino Escarpment.
34	Mar 01	08 28 04	37° 57'	118° 05'	3.8	c(R)	9	Cal.-Nev. border region, NE of White Mountain. Main shock of a series in Fish Lake Valley area. Felt at Dyer (Intensity IV). A few persons were awakened and a bed shifted. Preceded by 3 shocks and followed by 3 shocks (all of Mag >3) on the morning of Mar 01. Several of these were felt.
35	Mar 02	14 16 20.7	36° 21.1'	120° 57.2'	2.6	a	7	20 km NE of King City.
36	Mar 07	03 20 18.8	36° 49.5'	121° 35.7'	2.9	a	9	San Juan Bautista.
37	Mar 08	18 31 46.5	36° 47.6	122° 08.6	4.1	b	13	Monterey Bay. Press reported shock felt strongly in Monterey and Salinas, also in downtown San Francisco and Oakland. Also felt in Capitola and Brookdale.
37	Mar 09	15 35 16.2	36° 48'	122° 08.7'	4.6	b	13	Monterey Bay. Felt from San Francisco to King City. Intensity V (no damage) at Aptos, Boulder Creek, Carmel Valley, Corralitos, Felton, Monterey, Redwood Estates and Scotts Valley.
37	Mar 10	09 15 42.7	36° 46.9'	122° 07.9'	2.8	a	13	Monterey Bay.
38	Mar 15	03 00 41.1	39° 43'	120° 06'	3.5	a(R)	9	Near Portola.
CIT	Mar 18	11 58 58.6	35° 54.0'	120° 33.2'	3.5			Parkfield(Brk M=2.9)
39	Mar 23	19 02 53.2	37° 32'	121° 17'	2.5	a	8	NE of Mount Hamilton.
40	Mar 25	06 01 42.6	37° 59.3'	122° 01.1'	2.7	c	7	Near Concord.
41	Mar 26	01 02 40.1	36° 48.4'	122° 06.3'	2.7	a	10	Monterey Bay.
42	Mar 26	08 09 37.3	40° 00'	121° 21'	3.0	a(R)	4	SW of Lake Almanor.
43	Mar 28	02 04 58.4	36° 36.6'	121° 16.4'	2.8	a	8	NW of Pinnacles Nat. Mon.
44	Mar 31	14 43 52	40.3°	124.2°	4.1	a(R)	4	Cape Mendocino. Maximum Intensity IV. Awakened observer in Eureka. Felt by several in Ferndale; windows, doors, small objects rattled. Also felt in Rio Dell and McKinleyville.

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
45	Mar 31	17 03 36.1	37° 40'	122° 32'	3.2	b	13	Near Daly City. Widely felt in San Francisco, Pacifica, Westlake and San Bruno. At Pacifica a man reported an explosion-like noise.
46	Apr 01	02 53 24.7	37° 14.8'	121° 36.0'	2.8	a	9	SE of San Jose.
47	Apr 04	02 22 40	40.7°	124.5°	3.6	a(R)	5	Near Cape Mendocino.
CIT	Apr 04	10 42 31.8	35° 08.5'	121° 09.7'	3.2			S of San Simeon.
48	Apr 05	01 40 34.2	36° 24.8'	120° 59.0'	3.0	a	6	20 km SE of Pinnacles Nat. Mon.
49	Apr 05	11 05 44	40.6°	125.0°	3.3	a(R)	4	Mendocino Escarpment.
50	Apr 06	05 29 30.7	37° 01.3'	121° 04.2'	2.9	a	8	W. of Los Banos.
25	Apr 12	01 08 01.7	36° 38.5'	121° 18.8'	2.6	b	9	SE of Hollister.
51	Apr 16	09 07 47.0	39° 49'	120° 17'	3.0	a(R)	8	E of Portola.
37	Apr 16	12 58 31.7	36° 48'	122° 11'	4.5	b	10	Monterey Bay Intensity V. Cracks in ceiling widened at Big Basin State Park. Many awakened in Monterey Bay area and at Big Sur.
52	Apr 18	00 23 28	37.4	118.8°	3.3	a(R)	6	W. of Bishop.
53	Apr 19	06 30 09.8	40° 49'	123° 31'	3.8	a(R)	7	50 km E of Eureka. Sharp shake at Bridgeville, awakened and frightened few. Near Eureka (Humboldt Hill), felt by many or all, windows and doors rattled, house creaked, motion NS. Rapid, strong jerk at Rio Dell. Felt by many at Ferndale.
54	Apr 19	09 35 58.8	36° 13.7'	120° 50.3'	3.0	b	10	25 km E of King City.
55	Apr 27	05 01 47.7	39° 25.8'	120° 15.6'	4.4	a	10	Near Truckee. Frightened all near Boca Dam 7 mi NE of Truckee; small objects fell, loud boom, rocking, lesser boom then more rocking; at 05 32 moderate rocking from NS lasting 45 sec. At Foresthill first shock seemed lighter than second. Felt extensively from Quincy in the north to Tahoe City in the south and from Grass Valley to Reno. See Bull. Seism. Soc. Am. 61, p 1868, 1971.
56	Apr 27	05 32 39.0	39° 30.0'	120° 12.2'	3.8	a	9	

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
57	Apr 29	02 13 15.7	36° 30.3'	120° 32.5'	3.0	a(R)	9	40 km NW of Coalinga.
24	May 07	16 48 09.7	36° 36.9'	121° 16.8'	3.1	b	6	30 km SE of Salinas.
58	May 09	08 29 29.9	37° 07'	117° 23'	3.0	a(R)	8	Calif-Nevada border, SE of Bishop.
59	May 10	00 52 01.8	37° 52.7'	122° 15.9'	2.8	b	10	Near Berkeley. Felt in Richmond, El Cerrito and Oakland.
59	May 13	01 39 13.5	37° 51.5'	122° 15.4'	2.8	c	11	Near Berkeley. Felt by many in Berkeley as a sharp bump.
60	May 13	23 04 08.5	37° 11.1'	121° 34.6'	2.9	a	8	Near Morgan Hill.
61	May 15	17 54 09.6	36° 28.1	121° 06.0'	2.5	b	7	E of Pinnacles Nat. Mon.
62	May 20	08 52 37	40.3°	124.7°	3.2	a(R)	5	Mendocino Escarpment.
63	May 20	11 27 03.7	37° 31'	118° 31'	3.2	a(R)	8	Near Bishop. Intensity IV at Control Gorge Power Plant (15 mi NW of Bishop).
64	Jun 01	17 12 53.9	37° 27.9'	121° 42.3'	2.7	a	10	NE of San Jose.
65	Jun 08	02 42 11	40.5°	124.8°	3.2	a(R)	3	Mendocino Escarpment.
66	Jun 08	21 43 17.5	37° 36.1'	122° 01.2'	3.2	b	10	Near Union City. Intensity V in the Alvarado-Union City-Decoto region, where a few windows were cracked; minor cracks in building at Decoto. Int. V effects also in Hayward.
-	Jun 09	12 26 16	40.5°	126.5°	3.6	a(R)	6	Mendocino Escarpment. Location uncertain.
67	Jun 13	08 53 01	41.0°	125.6°	3.3	a(R)	3	West of Eureka. Location uncertain.
68	Jun 15	03 32 14.9	36° 57.1'	121° 36.1'	2.7	a	16	Near Gilroy.
69	Jun 15	12 22 21.3	38° 08.8'	122° 02.4'	2.9	b	8	N of Suisun Bay.
70	Jun 15	18 22 37	40° 22'	125° 19'	4.2	c(R)	8	Mendocino Escarpment.
-	Jun 16	14 50 00.0	37° 02.0'	116° 00.8'	4.2	a	-	NTS "EMBUDD." AEC location.
16	Jun 17	15 21 15	40° 17'	124° 23'	3.5	c(R)	6	Cape Mendocino. Intensity III at Ferndale.
71	Jun 19	08 17 58.5	36° 56.3'	121° 38.5'	3.7	b	15	E of Watsonville. Int. V at Corralitos and Gilroy. No damage reported.
72	Jun 19	10 51 57.3	36° 56.5'	121° 26.5'	2.9	b	10	SE of Gilroy.

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
73	Jun 20	12 41 39.8	35° 43'	120° 20'	3.4	b	11	Near Cholame.
-	Jun 23	15 30 00.0	37° 01.3'	116° 01.4'	4.5	a	-	NTS "LAGUNA." AEC location.
74	Jun 24	10 30 13	37.1°	117.9°	3.2	a(R)	8	Near Big Pine.
-	Jun 24	14 00 00.2	37° 08.8'	116° 04.0	4.9	a	-	NTS "HAREBELL." AEC location.
75	Jun 25	08 44 20	40° 14'	120° 21'	3.2	a(R)	6	Near Honey Lake.
76	Jun 26	13 58 12.4	37° 37.8'	122° 30.7'	2.7	b	9	Near Daly City. Felt Daly City and Pacifica.


EARTHQUAKES
NORTHERN CALIFORNIA
JANUARY 01 to JUNE 30, 1971
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
YREKA
WEAVERVILLE
BURNEY
ALTURAS
GARBERVILLE
DUNSMUIR
WILLITS
SUSANVILLE
CHICO
QUINCY
GERLACH
WILLIAMS
MARYSVILLE
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
FALLON
LIVERMORE
STOCKTON
MARKLEEVILLE
YERINGTON
SONORA
AUSTIN
HAWTHORNE
MONTEREY
HOLLISTER
MERCED
YOSEMITE
MINA
KING CITY
TONOPAH
SAN SIMEON
COALINGA
BISHOP
TULARE


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 01 to JUNE 30, 1971
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
HAYWARD
PCC
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
MONTEREY
HOLLISTER
SAO
LOS BANOS
MERCED
PRS
LLA
KING CITY
CAPE
SAN MARTIN
FRESNO
21
69
59
40
45
76
66
64
39
31
46
60
18
13
37
41
6
71
68
7
10
72
36
50
25
24
43
2
61
17
12
3
48
35
57
54
122°
37°
121°

EARTHQUAKES IN NORTHERN CALIFORNIA

July - December 1971

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
1	Jul 03	09-42-07	40° 35'	123° 30'	(3.6)	a(R)	3	W of Weaverville.
2$	Jul 05	19-24-35	35° 34'	121° 35'	(3.0)	a	7	SW of San Simeon.
3	Jul 08	05-34-00.9	36° 52!1	121° 37.7	(3.2)	b	13	W of Hollister.
4	Jul 08	07-04-12.4	36° 51!8	121° 35!4	2.9	b	14	W of Hollister.
5	Jul 11	12-36-34	40° 04'	122° 40'	3.6	b(R)	7	S of Weaverville.
6$	Jul 21	07-56-39.2	36° 14!1	120° 49!0	2.6	b	12	Near Coalinga.
7	Jul 21	09-14-26.2	36° 13!7	120° 50!8	3.2	b	13	Near Coalinga.
8	Jul 21	09-33-21.3	36° 14!3	120° 50!5	2.9	b	14	Near Coalinga.
9	Jul 24	02-14-39	38° 00'	118° 50'	3.5	a(R)	17	N of Bishop.
10	Jul 25	01-28-49.7	36° 47!2	121° 33!4	2.6	a	14	SW of Hollister.
11	Jul 25	09-13-28.9	37° 41!6	122° 30!5	3.4	b	16	SW of San Francisco. Felt in San Francisco, Daly City and Berkeley. Intensity IV in San Francisco-Daly City area.
12	Jul 25	12-01-35	35° 40'	121° 40'	2.8	a	10	W of San Simeon.
13	Jul 26	08-27-47	40° 40'	121° 35'	(3.2)	a(R)	6	SE of Burney.
14	Jul 26	22-36-54.8	36° 36!0	120° 34!0	2.6	b	7	N of Coalinga.
15	Jul 27	05-46-52	40° 40'	121° 40'	(3.2)	a(R)	5	SE of Burney.
16	Jul 28	08-25-18.3	36° 01!1	120° 53!6	2.8	a	16	SE of King City.
17	Jul 30	23-36-05.8	37° 17!1	121° 39!2	2.8	a	13	Near Mt Hamilton.
18	Aug 01	05-36-26	36° 50'	120° 00'	2.6	a(R)	14	W of Fresno.
19	Aug 01	06-08-21.1	36° 49!5	120° 02!4	2.8	a	13	W of Fresno.
20	Aug 01	06-11-13.6	36° 52!1	120° 00!9	(2.6)	a	11	W of Fresno.
21	Aug 01	06-37-48.5	36° 48!2	120° 01!9	2.5	a	12	W of Fresno.
21	Aug 01	08-36-27.7	36° 47!8	120° 01!5	2.7	a	13	W of Fresno.
22	Aug 02	04-44-44.0	36° 49!2	120° 01!9	3.1	a	15	W of Fresno. Intensity V at Biola (felt by many, pictures moved, furniture shifted). Intensity IV at Kerman.

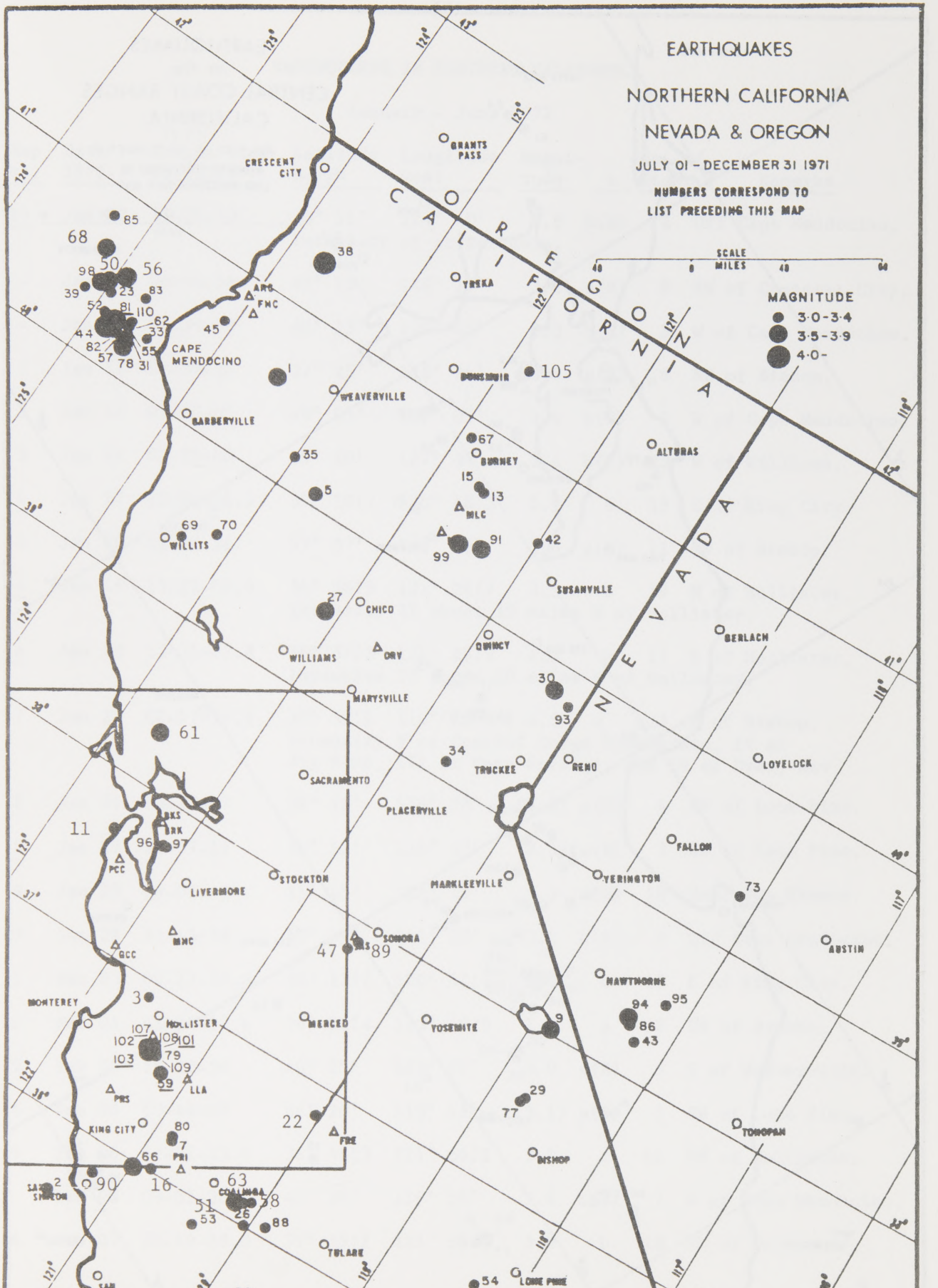
Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
23	Aug 02	12-02-54	40° 25'	124° 55'	(3.0)	a(R)	5	W of Cape Mendocino.
24	Aug 02	14-40-05.6	38° 22!3	122° 37!7	2.6	c	14	Santa Rosa.
25	Aug 06	09-38-40.5	37° 43!8	121° 47!3	2.7	b	10	NE of Livermore.
26	Aug 06	20-03-16.3	36° 00!8	120° 02!2	(3.0)	b	9	Near Coalinga.
27	Aug 06	22-29-48.3	39° 30!3	122° 06!5	3.8	b	9	SW of Chico. Felt in areas of Butte, Colusa, Glenn, and Sutter counties. Intensity IV at Berry Creek, Chico, Colusa, Cleen, Gridley, and Willows. Intensity I-III at Biggs, Durham, Forest Ranch, Maxwell, Meridian and Princeton.
28	Aug 08	09-17-36.4	37° 15!3	121° 37!8	2.8	a	13	N of Hollister.
29	Aug 08	19-27-58.1	37° 35!3	118° 44!8	(3.1)	b	9	NW of Bishop.
30	Aug 12	16-58-10.2	39° 49!6	120° 15!7	3.6	a	11	NW of Reno.
31	Aug 14	03-15-33	40° 15'	124° 40'	(3.1)	c(R)	5	W of Cape Mendocino.
32	Aug 18	04-01-36.5	37° 50!1	121° 57!8	2.9	d	14	E of Berkeley. Felt in Danville and Berkeley. Intensity IV at Danville.
33	Aug 26	04-18-11	40° 20'	124° 30'	(3.3)	d	7	W of Cape Mendocino.
34	Aug 29	02-00-59	39° 05'	120° 40'	(3.4)	a(R)	4	SW of Truckee.
35	Aug 30	07-56-21	40° 10'	123° 00'	(3.0)	a(R)	5	S of Weaverville.
36	Sep 02	03-40-17.6	36° 56!6	120° 42!6	(2.5)	b(R)	9	SE of Los Banos.
37	Sep 04	13-28-40.3	36° 56!7	121° 37!0	2.8	b	14	NW of Hollister.
38	Sep 12	19-32-38.0	41° 17!9	123° 40!4	4.6	d	13	SE of Crescent City.
39	Sep 16	03-13-01	40° 20'	125° 05'	(3.1)	c	8	Off Cape Mendocino.
40	Sep 17	18-43-34.1	37° 51!4	122° 15!7	2.8	c	18	Berkeley. Felt in Berkeley, Oakland, and San Francisco.
81[$]	Sep 17	20-11-30.6	40°.2	124°.8	3.8	c	17	Off Cape Mendocino. Intensity IV at Ferndale and Garberville; III at Eureka.
41	Sep 17	21-34-35.6	37° 51!3	122° 15!0	2.7	c	10	Berkeley. Felt in Berkeley.
42	Sep 18	00-29-57	40° 35'	121° 00'	(3.0)	c(R)	5	NW of Susanville.
43	Sep 18	13-53-38.4	38° 13!5	118° 14!9	(3.3)	d	10	SW of Mina.
44	Sep 20	15-48-21	40° 20'	124° 50'	4.1	d	15	Off Cape Mendocino. Intensity IV at Ferndale.

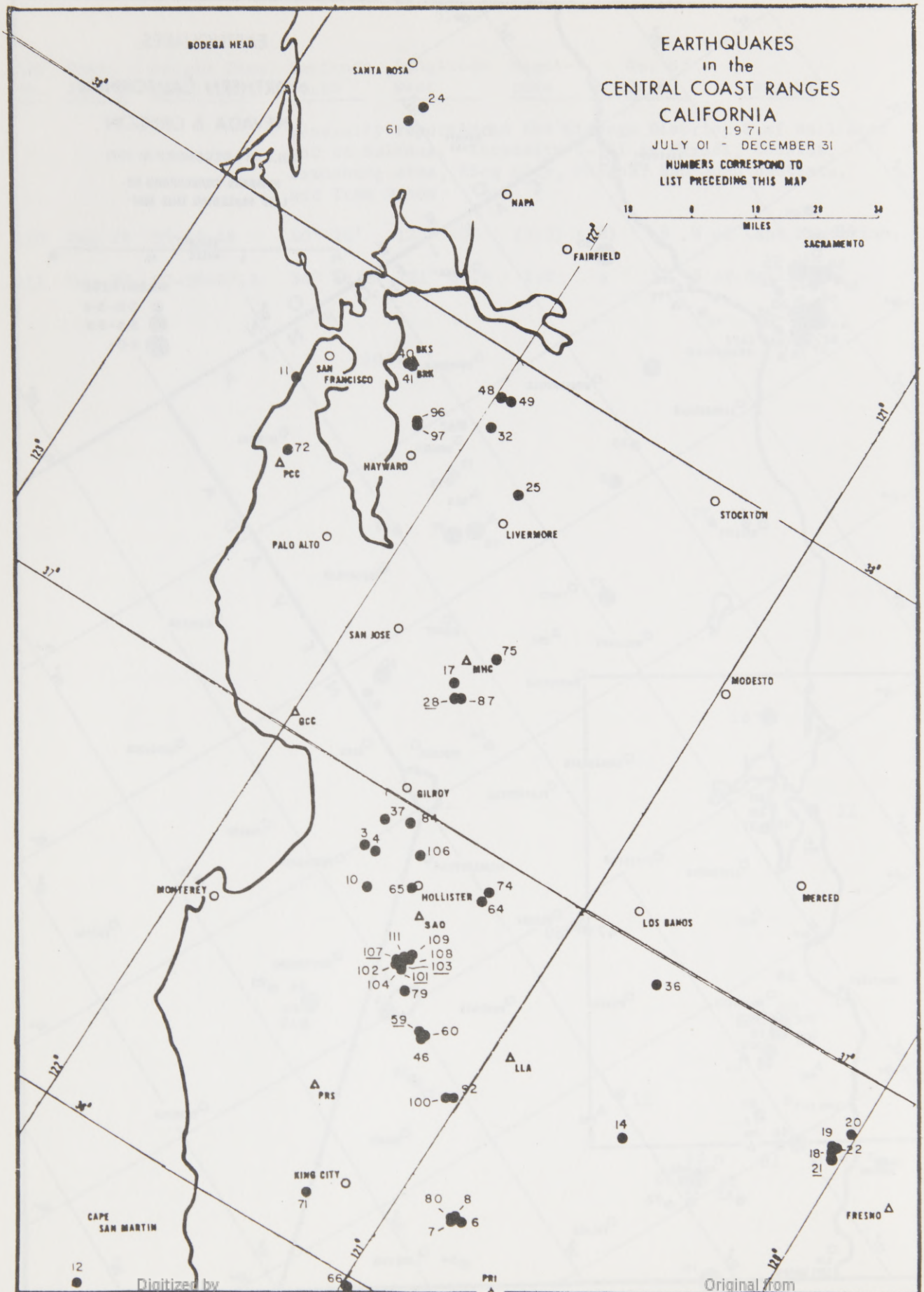
Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
45[$]	Sep 20	23-24-33	40° 40'	124° 05'	(3.0)	c	4	S of Arcata.
46	Sep 23	19-20-09.9	36° 33!2	121° 11.6	2.6	b	15	N of King City.
47	Sep 28	23-18-42	37° 50'	120° 30'	(2.6)	a(R)	6	SW of Sonora.
48	Sep 29	21-01-42.3	37° 54!1	121° 59!1	2.5	a	9	E of Berkeley.
49	Sep 30	01-58-48.7	37° 54!7	121° 57!4	2.9	c	15	E of Berkeley.
50	Oct 01	13-37-55	40° 30'	125° 00'	(3.7)	c(R)	5	Off Cape Mendocino.
51	Oct 02	19-38-55.8	36° 06!0	120° 11!3	3.8	b	15	SE of Coalinga.
52	Oct 03	07-26-38	40° 20'	124° 55'	(3.0)	d	6	Off Cape Mendocino.
53	Oct 06	14-43-30.6	35° 51!3	120° 22!5	3.4	b	13	S of Coalinga. Intensity IV at Cholame, Parkfield and Shandon.
54	Oct 06	22-34-39	36° 25'	118° 20'	(3.2)	b(R)	11	SW of Lone Pine.
55	Oct 08	05-52-49	40° 15'	124° 40'	(3.2)	c(R)	4	Off Cape Mendocino.
56	Oct 10	03-39-12	40° 30'	124° 55'	3.8	d	7	Off Cape Mendocino.
57	Oct 10	14-51-27	40° 20'	124° 40'	(3.3)	c(R)	5	Off Cape Mendocino. Intensity IV at Petrolia. Intensity III at Ferndale.
58	Oct 12	08-03-24	36° 05'	120° 05'	(2.6)	a(R)	9	SE of Coalinga.
59	Oct 12	08-08-33.0	36° 34!1	121° 12!5	2.5	a	14	N of King City.
60	Oct 13	03-22-58.3	36° 34!2	121° 11!3	(2.6)	a	14	N of King City.
61	Oct 13	17-41-05.8	38° 19!6	122° 38!7	3.5	b	16	S of Santa Rosa. Intensity IV at Cotati, Glen Ellen, and Penngrove. Intensity I-III at Petaluma. Felt in Santa Rosa and San Francisco.
62	Oct 14	07-10-17.1	40° 20'	124° 40'	(3.1)	d	7	Off Cape Mendocino.
63	Oct 16	11-20-28	36° 05'	120° 10'	(2.8)	b(R)	15	E of Coalinga.
64	Oct 20	23-11-24.4	36° 54!0	121° 15!6	2.7	b	14	NE of Hollister.
65	Oct 21	03-50-10.7	36° 50!8	121° 26!8	2.5	a	14	Near Hollister.
66	Oct 21	22-09-45.4	35° 58!8	120° 59!2	3.7	c	19	SE of King City. Intensity V at San Ardo (small objects shifted). Inten- IV at Jolon, King City, Lockwood, Pine Canyon and San Lucas.
67	Oct 26	16-12-50	40° 55'	121° 55'	(3.2)	b(R)	5	NW of Burney.

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
68[$]	Oct 27	20-53-10	40° 40'	125° 10'	(3.6)	c	11	Off Cape Mendocino.
69	Oct 28	11-24-06.3	39° 24!6	123° 23!1	3.1	c	9	NE of Willits.
70	Oct 30	00-53-59.4	39° 31!7	123° 09!0	3.1	c	8	NE of Willits.
71	Oct 30	13-45-23.0	36° 06!8	121° 14!0	2.8	a	14	S of King City.
72	Oct 31	10-13-12.6	37° 32!7	122° 25!2	2.5	c	11	S of San Francisco.
59	Nov 01	14-22-03.0	36° 34!1	121° 12!0	3.2	b	14	SE of Hollister.
73	Nov 04	18-04-19	39° 20'	118° 10'	(3.4)	c(R)	5	E of Fallon.
74	Nov 06	11-04-18	36° 55'	121° 15'	2.6	a(R)	14	E of Hollister.
75	Nov 07	00-14-40.9	37° 23!2	121° 35!8	2.7	a	15	E of San Jose.
76	Nov 07	14-03-30.4	35° 31!2	119° 50!2	(4.0)	d	10	SE of Coalinga.
77	Nov 07	15-44-30.3	37° 33!4	118° 45!6	(3.2)	b	8	NW of Bishop.
78	Nov 12	07-32-50	40° 15'	124° 40'	(3.8)	d	11	W of Cape Mendocino.
79	Nov 15	14-16-21.6	36° 37!8	121° 18!4	3.0	a	14	SE of Hollister.
80	Nov 18	04-03-52.4	36° 14!5	120° 50!6	3.4	b	16	E of King City.
81	Nov 20	13-59-03	40° 15'	124° 45'	(4.9)	d	17	W of Cape Mendocino.
82	Nov 20	14-26-03	40° 20'	124° 45'	(3.3)	a	4	W of Cape Mendocino.
83	Nov 20	20-59-39	40° 30'	124° 45'	3.3	c	4	W of Cape Mendocino.
84	Nov 24	14-27-56.5	36° 57!9	121° 27!0	2.5	a	16	N of Hollister.
85	Nov 26	04-51-03	40° 50'	125° 20'	(3.0)	a	4	NW of Cape Mendocino.
86	Nov 28	10-49-46	38° 20'	118° 20'	(3.1)	b(R)	8	SE of Hawthorne.
87	Nov 29	14-12-44.2	37° 16!4	121° 37!1	2.2	a	10	N of Gilroy.
88	Nov 30	09-45-42.8	36° 03!6	119° 53!4	(3.0)	b	10	SE of Coalinga.
89	Dec 02	01-12-20.4	37° 52!0	120° 29!4	(2.5)	a	5	S of Sonora.
90	Dec 02	09-07-28.4	35° 49!1	121° 10!2	2.8	a	12	Near San Simeon.
91	Dec 03	21-37-10	40° 20'	121° 20'	(3.5)	c(R)	5	NW of Quincy.
92	Dec 06	14-31-49.3	36° 28!5	121° 01!6	2.7	b	13	NE of King City.

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
93	Dec 07	03-44-38	39° 50'	120° 05'	(3.3)	b(R)	7	N of Reno.
94	Dec 07	19-52-08	38° 20'	118° 25'	(3.9)	a(R)	12	SE of Hawthorne.
95	Dec 08	16-07-29	38° 30'	118° 10'	(3.2)	d	6	E of Hawthorne.
96	Dec 11	21-35-12.4	37° 45!4	122° 09!0	3.4	b	22)	N of Hayward. Both shocks felt. Intensity IV at Castro Valley (also 05-53), Oakland (also 05-53), St. Mary's College (21-35), and San Leandro. Also felt in Berkeley, San Mateo, and Walnut Creek.
97	Dec 12	05-53-36.9	37° 45!6	122° 08!8	3.1	b	19)	
98	Dec 13	00-58-26	40° 25'	125° 05'	(3.5)	d	12	W of Cape Mendocino.
99	Dec 13	13-07-38	40° 20'	121° 30'	(3.6)	a(R)	11	NW of Quincy.
100	Dec 17	04-00-04.7	36° 28!1	121° 02!7	(2.6)	b	13	NE of King City.
101	Dec 19	10-45-44.8	36° 40!0	121° 20!9	2.6	a	18	S of Hollister.
101	Dec 19	14-12-53.7	36° 40!1	121° 20!9	3.2	a	19	S of Hollister.
102	Dec 20	08-34-40.0	36° 40!3	121° 22!0	3.6	a	20	S of Hollister.
103	Dec 20	11-25-29.9	36° 40!4	121° 21!7	2.9	b	15	S of Hollister.
28	Dec 20	18-00-09.4	37° 15!5	121° 37!6	2.8	a	13	N of Hollister.
101	Dec 20	18-05-02.6	36° 40!3	121° 21!1	2.8	a	15	S of Hollister.
104	Dec 20	21-26-41.1	36° 40!3	121° 21!2	2.6	a	15	S of Hollister.
105	Dec 25	07-14-31	41° 25'	121° 45'	(2.8)	c	3	N of Burney.
106[$]	Dec 25	18-25-44.6	36° 54!8	121° 28!5	2.7	a	10	N of Hollister.
107	Dec 28	22-33-52.9	36° 41!0	121° 22!2	3.7	b	17)	S of Hollister. In the following sequence felt reports were received for the (22-33), (22-38), (22-57), (00-25), (01-35), (01-37) shocks. Reported intensities refer to the main shock at (00-25-35.6). Intensity V at Almaden Winery (about 14.5 km S of Hollister), Hollister, Paicines, and about 9.7 km S of Paicines, where plasterboard was cracked slightly. Intensity IV
108	Dec 28	22-35-16.8	36° 41!8	121° 20!5	3.4	a	7)	
107	Dec 28	22-38-55.4	36° 40!8	121° 22!4	3.1	b	12)	
103	Dec 28	22-57-04.0	36° 41!1	121° 21!4	2.8	a	14)	
103	Dec 29	00-25-35.6	36° 40!3	121° 21!5	3.9	a	16)	
109	Dec 29	00-26-45.3	36° 42!3	121° 20!5	3.2	a	7)	
103	Dec 29	01-06-30.7	36° 40!8	121° 21!5	2.6	a	15)	
107	Dec 29	01-35-36.3	36° 41!0	121° 21!9	2.7	a	15)	
107	Dec 29	01-37-13.6	36° 40!8	121° 22!2	3.7	b	16)	

Map No.	Date 1971	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
			generally reported in the Cienega District S of Hollister and at Salinas. Intensity I-III at Carmel, Chualar, Jamesburg area, King City, Marina, San Juan Bautista, and Tres Pinos.					
110	Dec 29	05-20-46	40° 20'	124° 40'	(3.3)	c(R)	9	W of Cape Mendocino.
111	Dec 30	07-35-27.8	36° 41.8	121° 21.6	2.8	a	15	S of Hollister.


EARTHQUAKES
NORTHERN CALIFORNIA
NEVADA & OREGON
JULY 01 - DECEMBER 31 1971
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
SCALE
MILES
MAGNITUDE
3.0-3.4
3.5-3.9
4.0-
CALIFORNIA
NEVADA
OREGON
CRESCENT CITY
GRANTS PASS
CAPE MENDOCINO
EUREKA
ARC
FHC
WEAVERVILLE
BARBERVILLE
DONNER SUMMIT
BURNEY
ALTURAS
WILLITS
MLC
SUSANVILLE
CHICO
WILLIAMS
ORV
QUINCY
BERLACH
MARYSVILLE
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
BRK
PCC
FALLON
STOCKTON
LIVERMORE
MARKLEEVILLE
YERINGTON
MNC
GCC
SONORA
AUSTIN
HAWTHORNE
MONTEREY
MERCED
YOSEMITE
HOLLISTER
PRS
LLA
KING CITY
FRE
TONOPAH
PRI
BISHOP
SAN SIMEON
COALINGA
TULARE
LONE PINE



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EARTHQUAKES IN NORTHERN CALIFORNIA

January - June 1972

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
26	Jan 02	15-25-47	40° 15'	124° 40'	2.6	b(R)	4	Off Cape Mendocino. Intensity II at Ferndale.
-	Jan 03	04-14-58	42° 13'	126° 10'	3.6	b(R)	8	NW of Crescent City.
-	Jan 03	06-39-08	40° 15'	126° 05'	3.3	b(R)	5	W of Cape Mendocino.
1	Jan 11	07-38-34	37° 25'	118° 24'	3.3	a(R)	6	NE of Bishop.
2	Jan 12	01-52-05	40° 05'	125° 05'	3.4	b(R)	3	W of Cape Mendocino.
3	Jan 12	02-20-00	39° 10'	122° 34'	3.1	b(R)	13	W of Williams.
4	Jan 12	15-33-26.2	36° 10!7	120° 48!3	2.9	b	15	E of King City.
5	Jan 16	11-58-56	37° 37'	118° 43'	3.8	a(R)	11	NW of Bishop.
6	Jan 18	13-22-06.0	36° 56!9	121° 26!7	3.3	b	19	N of Hollister. Intensity IV about 10 miles N of Hollister.
6	Jan 18	13-31-07.8	36° 57!1	121° 25!9	2.8	b	17	N of Hollister. Intensity IV about 10 miles N of Hollister.
7	Jan 22	02-57-19.9	37° 34!1	118° 22!0	4.5	a	23	N of Bishop. Intensity V at Control Gorge Powerhouse, IV at Big Pine, III at Deep Springs, and IV at Dyer, Nev.
8	Jan 29	08-20-07	36° 15'	118° 28'	(3.0)	a(R)	4	SW of Lone Pine.
8	Jan 29	16-07-14	36° 12'	118° 23'	(2.9)	a(R)	3	SW of Lone Pine.
9	Jan 29	19-07-48	35° 45'	121° 14'	3.3	a(R)	18	Near San Simeon.
10	Jan 29	21-43-58	40° 14'	124° 22'	3.1	b(R)	2	Off Cape Mendocino.
11	Feb 03	02-17-55.8	36° 13!2	120° 51!1	2.9	b	19	E of King City.
12	Feb 04	11-04-32.6	36° 26!4	120° 40!9	2.5	a	12	SW of Fresno.
13	Feb 05	19-22-36	40° 25'	122° 55'	3.0	a(R)	3	S of Weaverville.
14	Feb 06	00-42-02	36° 20'	118° 21'	(3.1)	a(R)	5	SW of Lone Pine.
15	Feb 06	17-52-13.6	36° 48!3	121° 34!3	3.2	c	15	SW of Hollister.
-	Feb 07	09-05-36	40° 26'	126° 56'	3.6	b(R)	7	W of Cape Mendocino.
16	Feb 07	20-49-28.0	37° 15!2	121° 38!4	3.3	b	18	NW of Hollister.

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
17[$]	Feb 08	00-30-13	37° 20'	120° 02'	2.9	a(R)	9	E of Merced.
18	Feb 09	01-40-52.6	37° 02!8	121° 28!3	3.0	b	20	N of Hollister.
19	Feb 10	13-11-50	41° 05'	123° 05'	3.5	a(R)	3	N of Weaverville.
20	Feb 11	21-44-40	40° 07'	120° 01'	3.4	a(R)	6	NW of Reno.
67	Feb 12	06-11-22	39° 08'	118° 03'	(3.3)	a(R)	9	SE of Fallon.
21	Feb 13	03-09-17	41° 30'	125° 55'	(3.1)	b(R)	4	NW of Eureka.
22	Feb 13	15-18-45.6	37° 45!1	122° 09!0	3.2	b	15	SE of Berkeley. Felt in Castro Valley. Intensity IV in Lake Chabot area.
-	Feb 13	21-55-30	40° 30'	127° 20'	(3.2)	b(R)	6	W of Cape Mendocino.
81	Feb 15	08-56-33.1	36° 05!6	120° 07!5	(2.8)	a	12	E of Coalinga.
23	Feb 17	07-55-33	37° 10'	117° 29'	(3.6)	a(R)	10	SE of Bishop. Felt in Independence and Crowley Lake areas.
24	Feb 17	11-09-59	37° 34'	118° 22'	3.8	a(R)	25	N of Bishop. Felt in Independence and Crowley Lake areas. Intensity IV at Control Gorge Power Plant.
25	Feb 18	05-55-03.4	36° 45!3	121° 31!3	3.4	b	19	SW of Hollister. Intensity IV at Salinas and III at Carmel.
26	Feb 19	03-01-43	40° 20'	124° 42'	3.4	b(R)	9	Off Cape Mendocino.
27	Feb 22	05-27-12.7	36° 33!1	121° 07!6	3.4	b	6	SE of Hollister.
27	Feb 22	05-41-58.3	36° 32!9	121° 07!2	3.5	b	6	SE of Hollister.
27	Feb 22	15-44-09.7	36° 32!1	121° 07!4	3.2	a	6	SE of Hollister.
28	Feb 24	15-56-16.6	36° 36!0	121° 12!0	3.2	b	6	SE of Hollister.
28	Feb 24	15-56-51.3	36° 35!3	121° 11!8	5.1	b	6	SE of Hollister. Slight damage in the Bear Valley and Melendy Ranch areas. Felt in San Luis Obispo, Fresno, and Madera counties. Also felt in the San Francisco Bay area. Max. intensity VI.
28	Feb 24	16-08-39.0	36° 36!1	121° 12!3	2.7	b	6	SE of Hollister.
28	Feb 24	16-49-25.6	36° 35!4	121° 11!5	3.0	b	6	SE of Hollister.
28	Feb 24	17-40-06.8	36° 37!8	121° 14!6	2.9	b	6	SE of Hollister.
27	Feb 24	17-50-51.9	36° 32!5	121° 06!7	(2.6)	b	6	SE of Hollister.

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
28	Feb 24	18-02-48.2	36° 37!9	121° 14!4	3.4	b	6	SE of Hollister.
28	Feb 24	18-21-50.6	36° 37!9	121° 14!7	2.9	b	6	SE of Hollister.
28	Feb 24	18-27-18.6	36° 36!0	121° 12!4	(2.5)	b	6	SE of Hollister.
28	Feb 24	18-33-56.7	36° 37!8	121° 14!6	2.6	b	6	SE of Hollister.
28	Feb 24	19-43-40.6	36° 36!9	121° 13!3	2.8	b	6	SE of Hollister.
28	Feb 24	20-21-48.7	36° 37!0	121° 13!6	3.6	b	6	SE of Hollister. Felt in Bear Valley area.
28	Feb 24	22-39-02.7	36° 36!8	121° 13!5	2.7	b	6	SE of Hollister.
28	Feb 24	23-12-44.5	36° 35!3	121° 11!7	2.9	b	6	SE of Hollister.
28	Feb 25	03-00-42.8	36° 37!6	121° 14!2	2.5	b	6	SE of Hollister.
28	Feb 25	03-04-45.2	36° 37!5	121° 14!1	2.9	b	6	SE of Hollister.
28	Feb 25	11-48-30.2	36° 37!8	121° 14!7	3.0	b	6	SE of Hollister.
28	Feb 26	19-36-36.0	36° 38!2	121° 14!6	2.9	b	6	SE of Hollister.
29	Feb 27	04-43-08	40° 32'	124° 45'	3.8	b(R)	8	Off Cape Mendocino.
28	Feb 27	16-15-26.9	36° 38!0	121° 15!1	2.9	b	6	SE of Hollister.
28	Feb 27	16-56-29.0	36° 36!7	121° 12!9	(2.6)	b	6	SE of Hollister.
28	Feb 27	19-52-44.9	36° 38!2	121° 14!7	3.4	b	6	SE of Hollister. Felt in Jamesburg, S of Carmel Valley.
30	Feb 27	21-00-18.4	36° 33!2	121° 06!0	2.9	b	6	SE of Hollister.
30	Feb 27	22-13-08.6	36° 33!2	121° 05!6	4.7	b	6	SE of Hollister. Max. intensity V at Hernandez, Salinas, and Bear Valley area. Intensity IV at Ford Ord, Harris Ranch and Chitterden Pass. Intensity I-III at Atascadero, Carmel, Jolon, and Valleton.
30	Feb 29	21-32-23.4	36° 32!7	121° 06!4	2.5	b	6	SE of Hollister.
28	Feb 29	22-31-58.2	36° 35!9	121° 12!2	2.5	b	6	SE of Hollister.
31	Mar 01	05-47-54	38° 45'	120° 04'	3.3	a(R)	6	W of Markleeville.
32	Mar 01	09-28-42	40° 40'	125° 15'	5.2	b(R)	5	NW of Cape Mendocino. Intensity V at Ferndale, Honeydew, and Rio Dell. Intensity IV at Arcata, Eureka, and Petrolia; I-III at Blue Lake, Fort Bragg, and Trinidad. Aftershocks at (09:40), (10:01), and (10:56) with Mag. = 3.0.

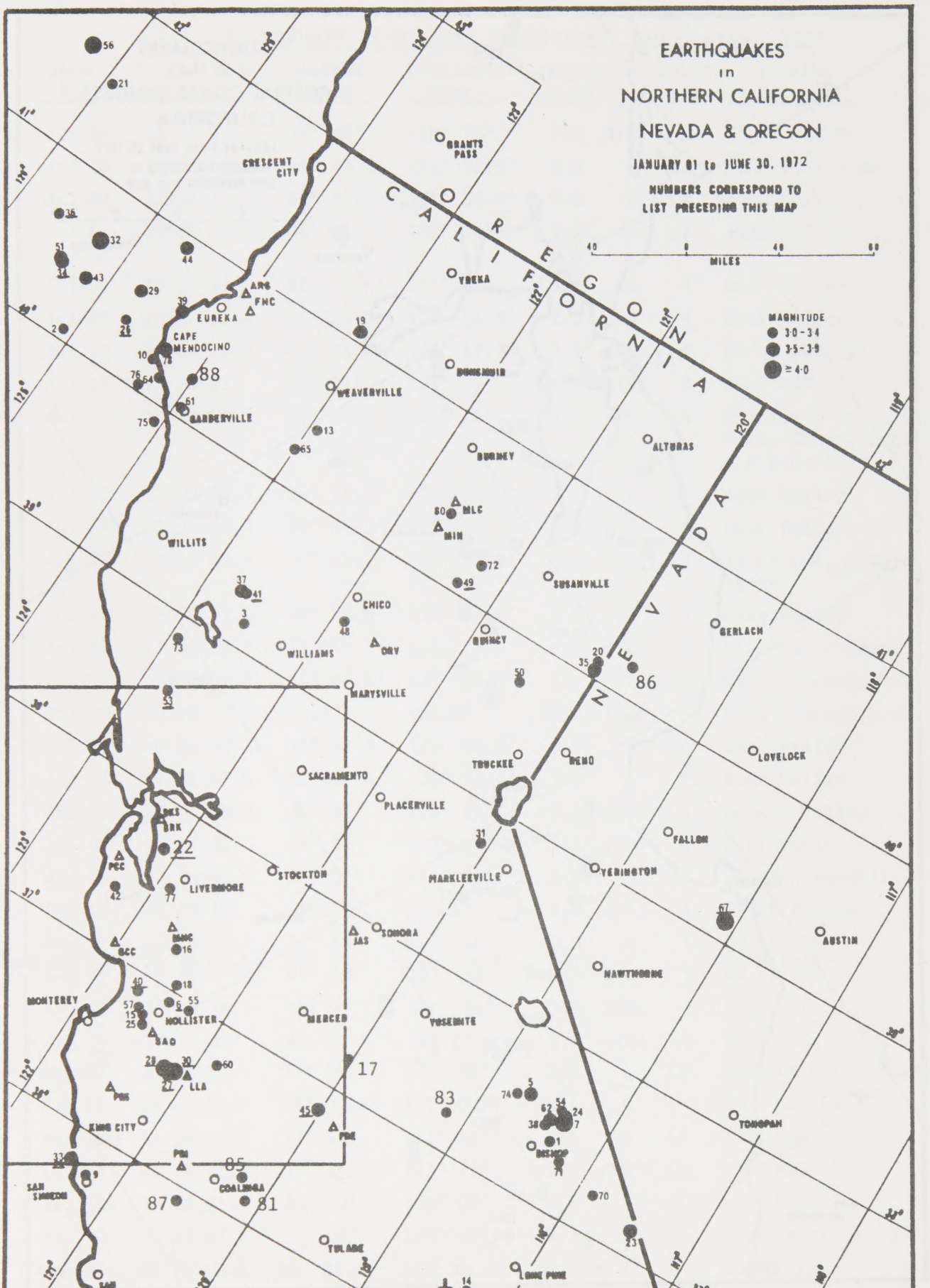
Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
30	Mar 01	11-39-58.7	36° 33!2	121° 07!2	3.8	b	6	SE of Hollister.
33	Mar 01	12-44-42	35° 48'	121° 23'	3.8	a(R)	9	NW of San Simeon.
34	Mar 01	12-55-41	40° 25'	125° 25'	3.5	b(R)	4	W of Cape Mendocino.
28	Mar 01	16-12-23.9	36° 36!3	121° 13!1	3.6	b	6	SE of Hollister.
33	Mar 01	16-19-51	35° 50'	121° 23'	(2.7)	a(R)	16	SW of King City.
33	Mar 01	19-01-10	35° 49'	121° 23'	(2.6)	a(R)	16	SW of King City.
30	Mar 01	19-53-01.5	36° 32!6	121° 06!7	(2.5)	b	6	SE of Hollister.
30	Mar 02	10-30-38.9	36° 33!1	121° 07!5	2.2	b	6	SE of Hollister.
82	Mar 02	18-28-13	37° 45'	122° 34'	2.1	a(R)	13	W of San Francisco.
35	Mar 02	21-44-15	40° 03'	120° 00'	3.5	a(R)	9	SE of Susanville.
36	Mar 02	23-18-01	40° 40'	125° 40'	3.4	b(R)	3	W of Eureka.
22	Mar 03	10-33-20.1	37° 45!3	122° 10!3	2.0	b	15	S of Berkeley. Felt in the San Leandro area.
28	Mar 03	12-55-20.0	36° 37!1	121° 13!7	2.6	b	6	SE of Hollister.
34	Mar 03	23-50-01	40° 25'	125° 30'	3.6	b(R)	6	W of Cape Mendocino.
30	Mar 04	05-57-26.6	36° 32!9	121° 06!1	3.5	b	6	SE of Hollister. Intensity II at Carmel.
36	Mar 04	13-18-27	40° 40'	125° 40'	3.7	b(R)	4	W of Eureka.
36	Mar 04	18-09-28	40° 40'	125° 35'	3.8	b(R)	5	W of Eureka.
36	Mar 04	22-00-07	40° 40'	125° 35'	3.8	b(R)	4	W of Eureka.
36	Mar 04	22-38-20	40° 40'	125° 35'	4.1	b(R)	5	W of Eureka.
36	Mar 04	23-48-44	40° 40'	125° 35'	3.6	b(R)	4	W of Eureka.
36	Mar 05	03-44-42	40° 40'	125° 35'	3.6	b(R)	4	W of Eureka.
37	Mar 05	15-10-02	39° 19'	122° 43'	3.5	b	10	E of Willits. Intensity I-III at Comptche and Upper Lake.
36	Mar 07	12-17-54	40° 30'	125° 40'	4.0	b(R)	5	W of Eureka.
36	Mar 07	14-18-58	40° 25'	125° 50'	4.0	b(R)	3	SW of Eureka.
38	Mar 09	17-28-47	37° 28'	118° 28'	3.0	a(R)	7	Near Bishop.

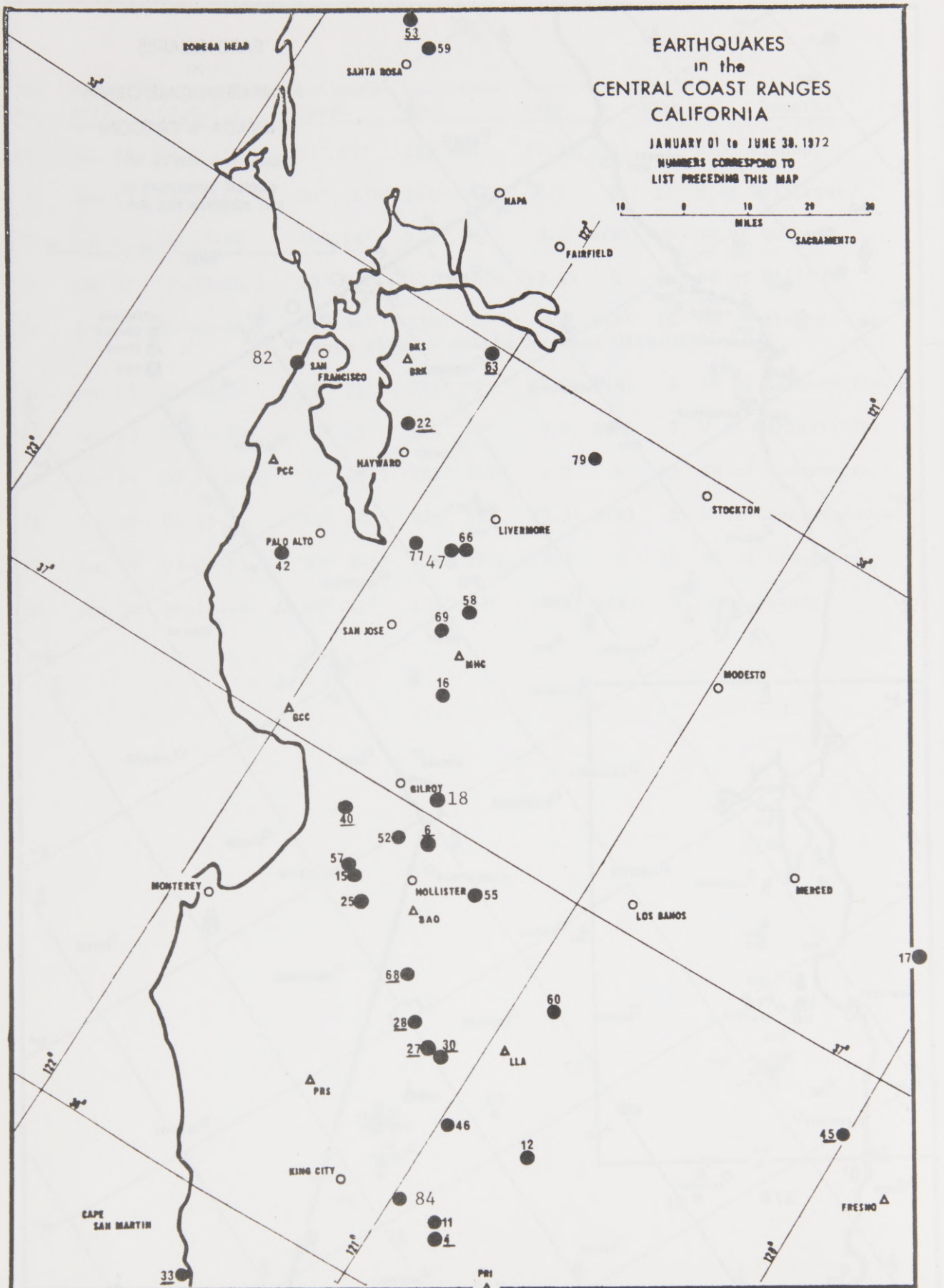
Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
39	Mar 10	07-14-51	40° 35'	124° 21'	3.7	b(R)	8	Near Eureka. Intensity IV at Eureka, II at Ferndale.
28	Mar 13	05-36-13.0	36° 40!6	121° 18!8	3.3	b	6	SE of Hollister.
83	Mar 13	22-25-01	37° 14'	119° 07'	2.6	a(R)	4	NE of Fresno.
36	Mar 14	07-41-42	40° 28'	125° 46'	4.1	b(R)	6	W of Cape Mendocino.
40	Mar 14	20-34-31.3	36° 55!0	121° 42!1	3.3	C	21	W of Hollister. Felt at Salinas and Moss Landing.
40	Mar 14	22-28-07.5	36° 55!4	121° 42!1	3.3	b	21	W of Hollister. Intensity III at Harris Ranch. Felt at Moss Landing.
36	Mar 17	01-43-58	40° 25'	125° 25'	3.9	b(R)	4	W of Eureka.
41	Mar 21	06-43-12	39° 18'	122° 41'	3.0	a(R)	10	E of Willits.
30	Mar 21	15-41-36.1	36° 33!3	121° 06!1	2.9	b	6	SE of Hollister.
28	Mar 22	06-24-43.8	36° 35!7	121° 12!3	3.1	b	6	SE of Hollister.
42	Mar 23	03-45-29.6	37° 22!8	122° 15!6	3.2	b	15	NW of San Jose. Intensity III near Portola Valley. Felt at Menlo Park, Palo Alto, Atherton, and Los Altos.
-	Mar 23	13-19-58	35° 06'	125° 18'	3.9	b(R)	10	W of San Luis Obispo, well offshore.
-	Mar 23	21-25-40	42° 42'	126° 12'	4.9	b(R)	4	Off Oregon coast.
-	Mar 25	02-45-49	40° 36'	117° 12'	3.5	a(R)	4	NE of Lovelock.
28	Mar 25	07-03-07.3	36° 35!8	121° 11!8	2.6	b	6	SE of Hollister.
30	Mar 26	06-12-36.8	36° 32!5	121° 05!9	2.0	b	6	SE of Hollister.
43	Mar 29	20-14-47	40° 25'	125° 10'	3.6	b(R)	4	W of Cape Mendocino.
44	Mar 30	21-45-18	40° 55'	124° 40'	3.5	b(R)	4	NW of Eureka. Intensity IV at Eureka, III at Ferndale, and felt at Fortuna and Petrolia.
45	Mar 31	17-44-17.7	36° 50!9	119° 58!5	2.0	a	15	NW of Fresno.
45	Mar 31	21-14-05.6	36° 51!8	120° 00!4	3.7	a	18	NW of Fresno. Felt at Fresno and Madera.
45	Apr 01	06-09-16	36° 50'	120° 01'	(2.6)	a(R)	13	NW of Fresno.
28	Apr 02	05-32-57.6	36° 36!7	121° 13!2	2.7	b	6	SE of Hollister.

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
46	Apr 06	19-20-03	36° 25'	120° 58'	2.7	a(R)	17	NE of King City. Intensity IV in Portola Valley.
30	Apr 07	08-07-24.6	36° 34!2	121° 10!5	3.0	a	6	SE of Hollister.
30	Apr 07	08-47-45.4	36° 34!3	121° 10!5	2.7	b	6	SE of Hollister.
47	Apr 07	17-26-02.8	37° 34!0	121° 49!6	2.9	c	21	SE of Berkeley. Felt in Fremont.
-	Apr 08	06-24-09	42° 37'	127° 06'	4.9	b(R)	9	Off Oregon coast.
4[$]	Apr 08	11-57-57.1	36° 12!8	120° 50!4	(2.5)	c	16	W of Coalinga.
-	Apr 09	01-10-07	42° 40'	126° 20'	3.7	b(R)	3	Off Oregon coast.
48	Apr 11	16-09-22	39° 30'	121° 55'	(3.1)	a(R)	3	S of Chico.
49	Apr 11	22-27-59	40° 05'	121° 19'	3.4	a(R)	8	NW of Quincy. Intensity IV at Belden, Caribou, and Storrie. Felt at Rock Creek.
49	Apr 11	23-03-43	40° 02'	121° 24'	3.1	a(R)	7	NW of Quincy.
85	Apr 13	22-44-13	36° 21'	120° 23'	(2.5)	a(R)	4	NE of Coalinga.
50	Apr 15	10-58-05	39° 46'	120° 30'	3.0	a(R)	7	SE of Quincy.
51	Apr 16	07-44-02	40° 25'	125° 25'	3.6	b(R)	3	W of Cape Mendocino.
86	Apr 22	13-20-59	40° 11'	119° 40'	2.7	a(R)	8	N of Reno.
52	Apr 23	02-37-23.7	36° 55!4	121° 31!7	(2.5)	a	20	NW of Hollister.
87	Apr 24	23-54-30	35° 57'	120° 38'	(2.6)	a(R)	6	SW of Coalinga.
-	Apr 25	21-16-36	40° 30'	126° 30'	(3.1)	b(R)	5	W of Cape Mendocino.
-	Apr 27	20-46-18	40° 55'	126° 20'	3.6	b(R)	3	W of Crescent City.
53	Apr 28	06-02-45	38° 34'	122° 47'	3.1	a(R)	10	NW of Santa Rosa.
54	Apr 30	02-46-22	37° 36'	118° 25'	(3.0)	a(R)	13	N of Bishop.
55	Apr 30	19-29-11.4	36° 54!2	121° 15!1	3.2	b	24	NE of Hollister.
30	May 01	21-51-06.6	35° 32!9	121° 06!2	3.0	b	6	SE of Hollister.
28	May 02	12-27-10.0	36° 35!2	121° 11!4	2.6	a	6	SE of Hollister.
56	May 03	00-29-45	41° 37'	126° 13'	4.4	b(R)	10	NW of Eureka.

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
28	May 05	20-39-31.6	36° 36!0	121° 12!4	2.6	b	6	SE of Hollister.
4	May 06	12-15-46.5	36° 13!0	120° 50!1	(2.6)	b	16	W of Coalinga.
-	May 07	11-51-36	40° 40'	126° 30'	3.7	b(R)	3	W of Eureka.
57	May 09	22-31-51.0	36° 48!6	121° 36!2	3.1	b	21	SW of Hollister.
58	May 10	00-06-34.9	37° 27!1	121° 42!0	2.8	b	17	NE of San Jose.
59	May 10	19-49-36.5	38° 30!2	122° 42!7	2.6	a	10	N of Santa Rosa. Felt in Santa Rosa.
60	May 10	20-31-06	36° 47'	120° 51'	3.3	a(R)	16	SE of Hollister.
61	May 12	06-28-28	40° 05'	123° 55'	3.3	a(R)	3	Near Garberville.
62	May 13	02-54-13.3	37° 29!0	118° 28!2	3.8	a	12	NW of Bishop.
53	May 13	14-42-27.6	38° 35!4	122° 47!3	2.9	a	13	N of Santa Rosa.
27	May 13	21-08-27.5	36° 33!0	121° 04!4	2.7	b	6	SE of Hollister.
63	May 16	17-00-32.7	37° 58!7	122° 04!0	2.3	C	14	NE of Berkeley.
63	May 18	23-54-11.2	37° 58!5	122° 04!4	2.4	C	14	NE of Berkeley.
64	May 24	05-27-26	40° 10'	124° 15'	3.2	a(R)	3	S of Cape Mendocino.
65	May 25	03-00-52	40° 15'	123° 00'	3.1	a(R)	3	E of Garberville.
41	May 27	22-04-16	39° 24'	122° 36'	2.7	a(R)	5	NW of Williams.
66	May 30	02-54-46.3	37° 33!7	121° 48!6	2.6	b	9	S of Livermore.
67	Jun 02	11-46-14.6	39° 08!1	118° 04!9	4.1	b	10	SE of Fallon.
88	Jun 03	00-38-27	40° 19'	124° 01'	2.9	b(R)	7	NW of Garberville.
68	Jun 03	08-19-53.3	36° 40!3	121° 16!7	2.8	b	6	SE of Hollister.
68	Jun 04	01-03-35.9	36° 40!1	121° 16!6	2.8	b	6	SE of Hollister.
84	Jun 04	01-53-40.5	36° 21!9	120° 59!5	(2.3)	C	16	E of King City.
69	Jun 05	23-18-36.0	37° 23!1	121° 45!0	2.5	a	20	NE of San Jose.
70	Jun 05	23-59-55	37° 14'	117° 52'	(3.0)	a(R)	6	SE of Bishop.
49	Jun 06	18-38-17	40° 07'	121° 26'	2.8	a(R)	5	NE of Chico.

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No. of Stas.	Remarks
71	Jun 09	08-14-52	37° 22'	118° 15'	(3.3)	a(R)	7	E of Bishop.
6	Jun 12	17-56-12.4	36° 55!0	121° 31!5	2.1	b	21	N of Hollister.
72	Jun 14	06-57-44	40° 14'	121° 15'	3.3	a(R)	6	NW of Quincy.
73	Jun 17	15-32-26.5	38° 53!1	122° 56!0	(3.2)	b	16	SE of Willits.
74	Jun 18	03-43-14	37° 34'	118° 47'	3.0	a(R)	10	NW of Bishop. Swarm with 19 events between 0248-0502.
75	Jun 23	05-30-37	39° 55'	124° 05'	(3.0)	b(R)	2	SW of Garberville.
76	Jun 23	07-16-20	40° 05'	124° 20'	3.0	b(R)	5	W of Garberville.
77	Jun 24	00-52-17.9	37° 32!3	121° 56!8	3.0	b	13	SW of Livermore.
78	Jun 25	00-15-15	40° 20'	124° 15'	(3.5)	b(R)	5	W of Cape Mendocino.
79	Jun 29	05-05-53.9	37° 54!2	121° 39!0	2.5	a	15	NE of Livermore.
80	Jun 30	06-18-49	40° 25'	121° 40'	(3.4)	a(R)	3	S of Burney.


EARTHQUAKES
in
NORTHERN CALIFORNIA
NEVADA & OREGON
JANUARY 01 to JUNE 30, 1972
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
40 0 40 80
MILES
MAGNITUDE
3.0 - 3.4
3.5 - 3.9
≥ 4.0
OREGON
CALIFORNIA
NEVADA
CRESCENT CITY
GRANTS PASS
EUREKA
ARC
FHC
CAPE MENDOCINO
YREKA
BIG BEND
WEAVERVILLE
BARDERVILLE
ALTURAS
BURNEY
MLC
MIN
WILLITS
SUSANVILLE
CHICO
WILLIAMS
ORV
GERLACH
MARYSVILLE
TRUCKEE
RENO
LOVELOCK
SACRAMENTO
PLACERVILLE
FALLON
STOCKTON
MARKLEEVILLE
YERINGTON
LIVERMORE
SONORA
JAS
AUSTIN
NAWTHORNE
MONTEREY
HOLLISTER
SAO
MERCED
YOSEMITE
LLA
PNS
KING CITY
PNM
PNE
TONOPAH
SAN SIMEON
COALINGA
TULARE
BIG PINE
86
88
87
85
83
81
17


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JANUARY 01 to JUNE 30, 1972
NUMBERS CORRESPOND TO
LIST PRECEDING THIS MAP
10 0 10 20 30
MILES
BODEGA HEAD
SANTA ROSA
NAPA
FAIRFIELD
SACRAMENTO
SAN FRANCISCO
BKS
BRK
PCC
HAYWARD
PALO ALTO
LIVERMORE
STOCKTON
SAN JOSE
MHC
MODESTO
GCC
GILROY
HOLLISTER
SAO
MONTEREY
MERCED
LOS BANOS
LLA
PRS
KING CITY
CAPE
SAN MARTIN
FRESNO
PRI
122°
121°
37°
36°

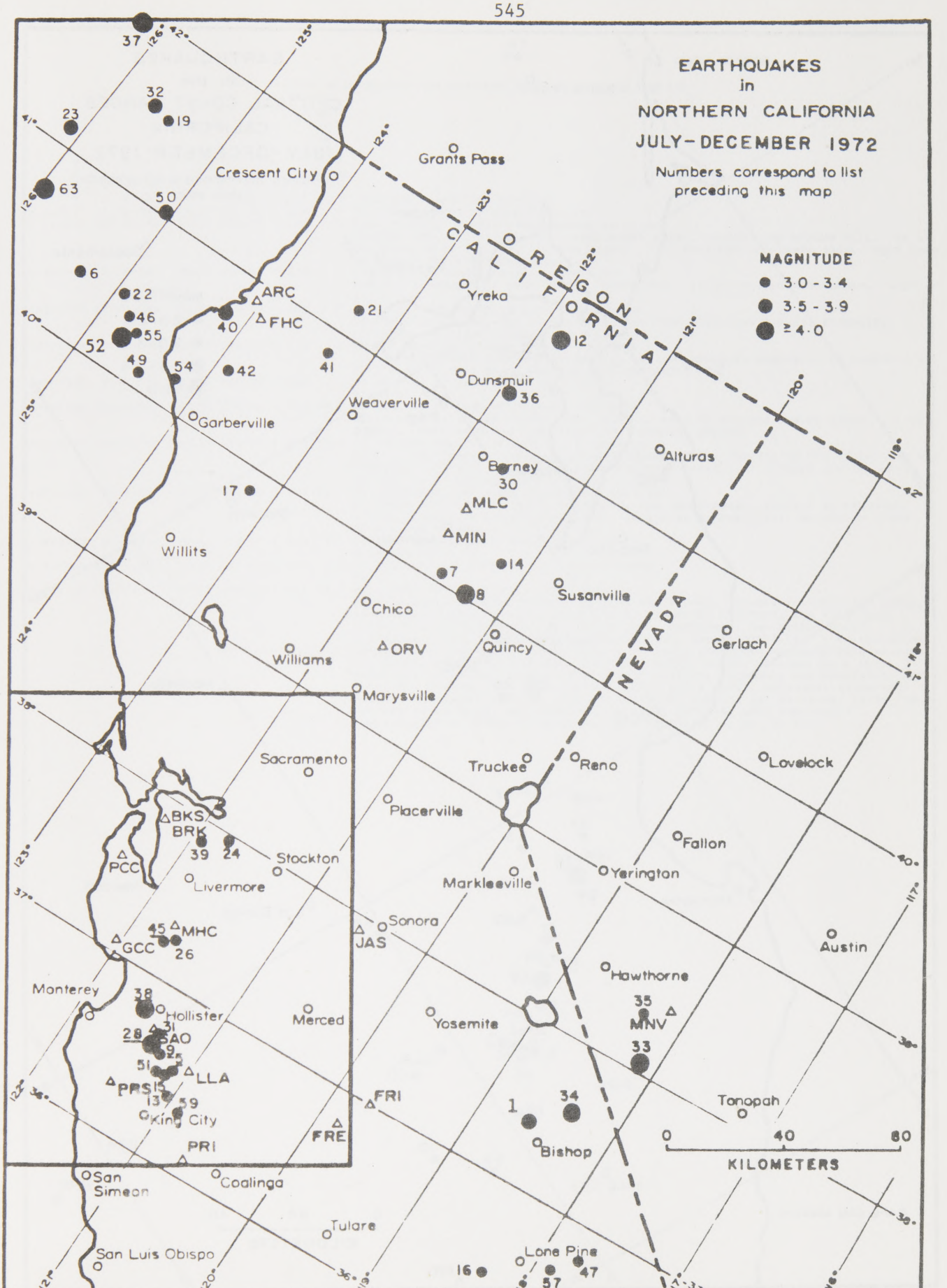
EARTHQUAKES IN NORTHERN CALIFORNIA - July-December 1972

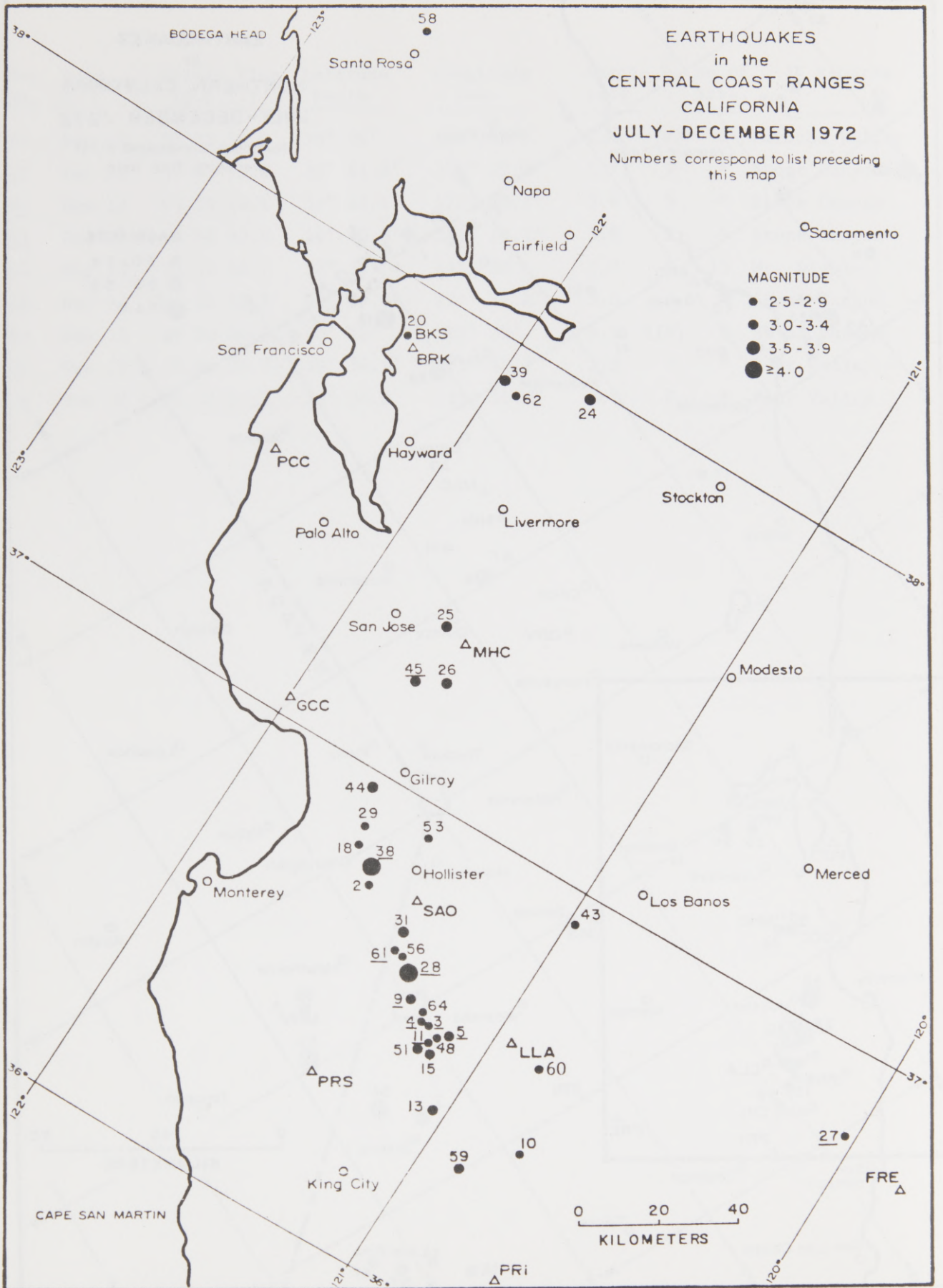
Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No.of Stas.	Remarks
1 $	Jul 01	06 45 16.0	37° 23'	118° 35'	3.5	d(R)	6	NW of Bishop
2	Jul 03	12 15 36.7	36° 47.3'	121° 31.5'	2.6	a	13	Hollister area
3	Jul 03	12 38 54.2	36° 33.6	121° 09.0'	2.8	9	*	Bear Valley
4	Jul 07	09 38 55.0	36° 34'	121° 10'	2.5	b	7	Bear Valley
5	Jul 07	10 52 43.5	36° 33.6'	121° 05.4'	3.1	10	*	Bear Valley
5	Jul 07	15 27 13.2	36° 33.8'	121° 04.5'	2.5	9	*	Bear Valley
6	Jul 10	16 56 05.9	40° 23.8'	125° 17.7'	3.4	d(R)	6	SW of Ferndale
7	Jul 12	15 53 31	40° 03'	121° 33'	3.2	a(R)	8	N of ORV
8	Jul 16	14 42 09.2	40° 02'	121° 18'	4.1	a(R)	14	Max Int V at Belden, Berry Creek, Caribou and Storrie
9	Jul 19	23 03 41.3	36° 36.3'	121° 13.5'	3.0	8	*	Bear Valley
9	Jul 19	23 20 12.2	36° 36.5'	121° 13.5'	2.8	8	*	Bear Valley
10	Jul 21	02 52 35.0	36° 24.2'	120° 45.9'	2.6	a(R)	5	SE of LLA, double shock
11	Jul 23	09 27 51.2	36° 31.6'	121° 07.1'	2.8	7	*	Bear Valley
12	Jul 23	15 36 18.7	41.8°	121.7°	4.1	d(R)	4	Mt. Shasta area
13	Jul 24	06 53 03.6	36° 24.1'	121° 00.7'	3.1	b	14	Little Rabbit Valley
14	Jul 30	19 02 33	40.3°	121.2°	(3.3)	a(R)	2	Lake Almanor area
15	Jul 30	20 21 50.1	36° 32.2'	121° 06.2'	3.1	9	*	Bear Valley
9	Jul 31	01 03 47.8	36° 36.4	121° 13.4'	3.1	9	*	Bear Valley
16	Aug 01	03 14 39.8	36° 27'	118° 15'	(3.1)	d(R)	4	Owen's Valley
17	Aug 09	15 58 59.4	39° 51'	123° 12'	3.1	d(R)	6	N of Ukiah
18	Aug 10	04 30 57.2	36° 51'	121° 36'	2.6	b	14	SE of Watsonville
19	Aug 13	02 38 10	41.5°	125.5°	3.0	a(R)	4	NW of Eureka
20	Aug 14	10 54 50.4	37° 53'	122° 18'	2.5	a	7	NW of BRK
CIT	Aug 15	06 26 24.4	35° 55.1'	120° 26.3'	3.0			Parkfield
21 $	Aug 19	02 10 57.6	41° 10'	123° 20'	3.3	d(R)	5	NE of FHC
22	Aug 20	13 35 16.7	40° 27'	124° 55'	3.1	d(R)	4	W of FHC
23	Aug 22	19 30 29	41.1°	126.1°	3.5	a(R)	4	W of ARC
24	Aug 23	22 03 35.4	37° 58'	121° 45'	3.0	b	10	Int III near Antioch
5	Aug 24	14 26 13.7	36° 33.6'	121° 03.5'	2.5	9	*	Bear Valley
25	Aug 25	14 26 21.0	37° 22'	121° 44'	2.6	b	14	W of MHC
26	Aug 27	04 54 43.9	37° 15'	121° 39'	3.0	a	15	S of MHC
27	Aug 30	10 22 15.4	36° 48'	120° 02'	2.8	a(R)	11	Near Madera
27	Aug 30	12 16 07.9	36° 50'	120° 02'	(2.5)	a	7	Aftershock of 10 22
11	Aug 30	20 26 40.2	36° 31.9'	121° 06.8'	(2.5)	9	*	Bear Valley

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No.of Stas.	Remarks
28	Sep 01	06 18 54.0	36° 39.4'	121° 17.1'	2.8	4	*	Stone Canyon
29	Sep 02	22 40 14.0	36° 53'	121° 37'	2.6	a	14	San Juan Bautista
30	Sep 04	15 35 45.1	40° 49'	121° 39'	3.3	d(R)	3	N of MIN
28	Sep 04	18 04 40.9	36° 38.5'	121° 15.8'	4.7	5	*	Stone Canyon. Max Int VI. Slight damage of Bear Valley Fire Control Station. Principal affect numerous rockfalls along San Benito River.
28	Sep 04	18 19 16.1	36° 38.9'	121° 16.1'	2.8	6	*	Aftershock of 18 04
28	Sep 04	18 38 20.1	36° 38.6'	121° 15.9'	3.0	6	*	" "
28	Sep 04	19 58 33.0	36° 38.8'	121° 16.2	2.9	6	*	" "
28	Sep 05	00 37 02.5	36° 38.3'	121° 14.0'	2.6	7	*	Stone Canyon
28	Sep 05	01 52 54.3	36° 31.0'	121° 16.3'	2.6	5	*	" "
28	Sep 06	02 29 47.7	36° 37.9'	121° 14.7'	2.8	7	*	" "
31	Sep 06	15 05 59.5	36° 42.5'	121° 21.2'	3.1	5	*	S of SAO
28	Sep 07	20 50 28.3	36° 38.3'	121° 15.4	2.8	8	*	Stone Canyon
32	Sep 11	05 49 06.7	41° 31'	125° 40'	3.6	d(R)	6	W of Eureka
9	Sep 14	19 33 10.4	36° 36.7'	121° 13.2'	3.0	7	*	Bear Valley (North)
33	Sep 18	07 14 28.3	38° 02.0'	118° 06.1'	4.0	a	5	S of MNV
34	Sep 18	21 50 51.9	37° 34'	118° 21'	4.0	a(R)	7	N of Bishop. Max Int III.
35	Sep 22	08 48 18.5	38° 18'	118° 15'	3.3	a(R)	5	SW of MNV
36	Sep 22	15 31 28.6	41° 14'	121° 55'	3.6	d(R)	4	Shasta area
37	Sep 23	02 43 57.8	41° 59'	126° 16'	4.9	d(R)	6	NW of FHC
38	Sep 23	10 35 09.2	36° 48'	121° 32'	2.9	a(R)	8	San Juan Bautista
38	Sep 23	10 45 04.8	36° 49'	121° 32'	3.5	b	14	San Juan Bautista Felt
38	Sep 23	10 48 12.3	36° 49'	121° 32'	3.5	b	15	San Juan Bautista Felt
38	Sep 23	10 56 25.5	36° 48'	121° 32'	4.0	a	15	San Juan Bautista Felt
38	Sep 23	15 07 48.2	36° 48'	121° 32'	4.1	b	18	Near San Juan Bautista. Int V at Salinas
28	Sep 25	07 08 19.6	36° 38.7'	121° 16.8'	2.5	4	*	Stone Canyon
28	Sep 27	04 18 51.5	36° 38.7'	121° 16.7'	3.0	6	*	Stone Canyon
28	Sep 27	10 51 38.9	36° 38.8'	121° 16.6'	(2.7)	8	*	Stone Canyon

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No.of Stas.	Remarks
39	Sep 29	09 46 09.1	37° 55'	121° 59'	3.2	11	6	Mt. Diablo area (Felt)
38	Oct 03	05 59 38.5	36° 48'	121° 32'	2.9	a	14	San Juan Bautista Felt
38	Oct 03	06 30 02.2	36° 48'	121° 32'	4.8	b	24	Near San Juan Bautista. Int V at Salinas
38	Oct 03	11 10 13.4	36° 48'	121° 35'	4.1	a	14	San Juan Bautista Felt
38	Oct 04	08 41 05.8	36° 49'	121° 34'	3.0	a	15	San Juan Bautista
40	Oct 06	16 39 41.8	40° 42'	124° 11'	3.7	d(R)	7	Near Ferndale
38	Oct 12	22 57 34.8	36° 48'	121° 34'	2.9	a	14	San Juan Bautista
41	Oct 17	19 13 55.9	40° 50'	123° 20'	3.3	d(R)	4	N of Garberville
42	Oct 26	05 21 41.1	40° 25'	123° 53'	3.4	d(R)	6	Scotia area
43	Oct 26	19 34 53.5	36° 56'	120° 59'	2.5	a(R)	9	N of LLA
44	Oct 30	16 51 55.9	36° 57.6'	121° 39.7'	2.7	a	14	E of Watsonville
45	Oct 31	15 54 17.3	37° 13.4'	121° 43.1'	3.4	b	13	SE of San Jose. Int IV at Coyote & Morgan Hill
46	Nov 04	03 30 45.3	40° 21'	124° 47'	3.4	d(R)	6	SW of FHC
47	Nov 08	10 15 10	36.8°	117.8°	(3.1)	a(R)	3	Lone Pine area
48	Nov 09	17 13 42.3	36° 32.9'	121° 06.5'	2.7	9	*	Bear Valley
9	Nov 09	23 33 43.3	36° 37.4'	121° 14.0'	2.5	7	*	Stone Canyon
49	Nov 11	14 25 54.3	40° 05'	124° 29'	3.4	d(R)	5	S of FHC
50	Nov 13	10 57 22.6	41° 01'	125° 04'	3.7	b(R)	5	W of Eureka
51	Nov 13	23 10 00.0	36° 31'	121° 08'	3.2	a	11	Bear Valley
52	Nov 14	02 10 13.8	40° 18'	124° 40'	4.7	d(R)	5	Cape Mendocino. Max Int V at Harris
53	Nov 14	12 46 33.9	36° 56'	121° 26'	2.6	a(R)	14	San Felipe
54	Nov 16	23 45 54.7	40° 11'	124° 11'	3.2	b(R)	5	Near Petrolia. Int IV at Ferndale
55	Nov 22	10 45 25.4	40° 17'	124° 40'	3.3	b(R)	6	Cape Mendocino
45	Nov 23	10 19 32.4	37° 13'	121° 44'	2.5	a(R)	17	SE of San Jose
56	Nov 25	11 40 12.1	36° 40.6'	121° 18.5'	2.6	2	*	Stone Canyon
57	Nov 25	19 31 38.0	36° 40'	117° 53'	(3.2)	d(R)	6	Lone Pine area
58	Nov 26	19 17 54.6	38° 29.8'	122° 44.4'	2.9	a(R)	5	Santa Rosa. Felt
3	Dec 01	07 02 53.2	36° 33.2'	121° 08.6'	2.6	8	*	Bear Valley
59	Dec 02	19 30 26.7	36° 18'	120° 53'	3.0	c	10	NW of PRI

Map No.	Date 1972	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	h	No.of Stas.	Remarks
60	Dec 10	07 33 34.0	36° 36'	120° 51'	2.6	b(R)	6	Panoche Valley
61	Dec 12	03 51 15.2	36° 41.3'	121° 19.9'	2.7	3	*	Stone Canyon
61	Dec 12	03 55 52.1	36° 41.1'	121° 19.7'	2.6	3	*	Stone Canyon
61	Dec 13	10 52 33.0	36° 40.5'	121° 18.1'	2.8	5	*	Stone Canyon
62	Dec 13	20 32 36.7	37° 54'	121° 57'	2.7	9	13	Mt. Diablo
28	Dec 14	01 31 57.9	36° 39.6'	121° 17.2'	3.0	6	*	Stone Canyon
63	Dec 15	09 25 00.7	40° 42'	125° 59'	4.1	d(R)	5	SW of Eureka
64	Dec 18	10 14 24.7	36° 34.9'	121° 10.7'	2.5	7	*	Bear Valley
4	Dec 24	09 54 57.1	36° 34.3	121° 10.2'	2.8	8	*	Bear Valley


EARTHQUAKES
in
NORTHERN CALIFORNIA
JULY–DECEMBER 1972
Numbers correspond to list preceding this map
MAGNITUDE
3.0 - 3.4
3.5 - 3.9
≥ 4.0
CALIFORNIA
NEVADA
OREGON
Crescent City
Grants Pass
Yreka
Dunsmuir
Weaverville
Garberville
Willits
Alturas
Berney
Chico
Susanville
Williams
Quincy
Gerlach
Marysville
Sacramento
Truckee
Reno
Lovelock
Placerville
Fallon
Stockton
Livermore
Markleeville
Yerington
Sonora
Austin
Hawthorne
Monterey
Hollister
Merced
Yosemite
Tonopah
Bishop
King City
San Simeon
Coalinga
Tulare
San Luis Obispo
Lone Pine
ARC
FHC
MLC
MIN
ORV
BKS
BRK
PCC
MHC
GCC
JAS
SAO
LLA
PPS
FRI
FRE
PRI
MNV
0
40
80
KILOMETERS


EARTHQUAKES
in the
CENTRAL COAST RANGES
CALIFORNIA
JULY-DECEMBER 1972
Numbers correspond to list preceding this map
MAGNITUDE
2.5-2.9
3.0-3.4
3.5-3.9
≥4.0
BODEGA HEAD
Santa Rosa
Napa
Fairfield
Sacramento
San Francisco
BKS
BRK
PCC
Hayward
Stockton
Livermore
Palo Alto
San Jose
MHC
GCC
Modesto
Gilroy
Hollister
Monterey
SAO
Merced
Los Banos
LLA
PRS
King City
CAPE SAN MARTIN
FRE
PRI
0 20 40
KILOMETERS
123°
122°
121°
120°
38°
37°
36°

VII. LISTING OF EARTHQUAKES WITH MAGNITUDES EQUAL TO OR GREATER THAN 5.0

MONTH	DAY	YEAR	HOUR	MIN	SEC	LAT	LONG	QUALITY	MAG	RSTN	AZ	TYPE	IDENT	FELT	MAXIMUM INTENSITY, COMMENTS
8/	5/	1910	1-	31-	36.	42.00	127.00	C	6.8					F	OFF COAST, WEST OF CRESCENT CITY.
7/	1/	1911	22-	0-	0.	37.25	121.75		6.6					F	NEAR COYOTE. CONSIDERABLE DAMAGE AT LICK OBSERVATORY. VI-VIII AT SAN JOSE, SANTA CLARA, GILROY, AND MORGAN HILL. VI AT SAN FRANCISCO, OAKLAND, AND RIO VISTA. V AT BERKELEY AND SANTA CRUZ. FELT OVER AN AREA OF 60,000 SQUARE MILES.
5/	6/	1915	12-	9-	-0.	39.50	126.50	C	6.8					F	V MENDOCINO COUNTY COAST. ORIGIN OFF SHORE. STRONGEST AT FORT BRAGG. BRANSCOMB. II AT SHIVELY AND EUREKA. ALSO AT WILLITS.
12/	31/	1915	12-	20-	-0.	41.00	126.00	C	6.5					F	X AT SEA, OFF HUMBOLDT COUNTY COAST. OF DESTRUCTIVE ENERGY, BUT EPICENTER SO FAR FROM LAND THAT HIGHEST INTENSITY REPORTED WAS III AT EUREKA AND SHIVELY.
7/	15/	1918	0-	23-	0.	41.00	125.00	C	6.5					F	IX OFF HUMBOLDT COUNTY COAST. RECORDED OVER CONSIDERABLE PART OF THE EARTH. HIGHEST REPORTED INTENSITY AT EUREKA - VI. FELT ALSO AT FORT BRAGG AND BIG BAR.
1/	26/	1922	9-	31-	20.	41.00	126.00	C	6.0						AT SEA, NW OF CAPE MENDOCINO. NOT REPORTED FELT.
1/	31/	1922	13-	17-	22.	41.00	125.50	C	7.3	99				F	AT SEA, NW OF CAPE MENDOCINO. RECORDED WORLD-WIDE BY 106 STATIONS. FELT OVER AN AREA OF 400,000 SQUARE MILES. VI AT EUREKA. FELT FROM SAN JOSE NORTH TO ROSEBURG, OREGON.
3/	10/	1922	11-	21-	20.	35.75	120.25	C	6.5	43				F	IX CHOLAME VALLEY, REGION OF SAN ANDREAS FAULT. FELT OVER AN AREA OF 100,000 SQUARE MILES. CRACKS IN THE GROUND AND NEW SPRINGS. VII-VIII AT PARKFIELD AND SHANDON. VI-VII AT SIMMLER AND SAN LUIS OBISPO. V AT LOS ANGELES.
1/	22/	1923	9-	4-	18.	40.50	124.50	C	7.2	71				F	IX SUBMARINE, OFF CAPE MENDOCINO. VIII-IX AT UPPER MATTOLE, PETROLIA, OVERVILLE, AND PEPPERWOOD. VI-VIII AT FERNDALE, SCOTIA, LOLETA, FORTUNA, AND ALTON. VI-VII AT EUREKA. V-VI AT WILLOWS, RED BLUFF, AND ORLAND.
4/	29/	1923	2-	31-	29.	41.00	125.00	C	5.0						AT SEA, WEST OF CAPE MENDOCINO. NOT REPORTED FELT.
6/	4/	1925	12-	2-	52.	41.50	125.00	C	6.0					F	AT SEA, OFF CAPE MENDOCINO. NOT REPORTED FELT.
10/	22/	1926	12-	35-	7.	36.61	122.35	A	6.1	4				F	VIII MONTEREY BAY REGION. FELT OVER AN AREA OF 100,000 SQUARE MILES. VIII AT SANTA CRUZ. VI-VII AT POINT AND NUEVO, CAPITOLA, SALINAS, SOQUEL, POINT PINOS, LAKESIDE, MONTEREY, SAN FRANCISCO, APTOS, BOULDER CREEK, CARMEL, CASTROVILLE, DAVENPORT, AND PIGEON POINT. V-VI AT ALVARADO, KING CITY, PESCADERO, SAN GREGORIO, AND WATSONVILLE. V AT IRVINGTON, MORGAN HILL, BERKELEY, COLMA, CRYSTAL SPRINGS, GONZALES, HALFMOON BAY, HAYWARD, LOS GATOS, MARTINEZ, MILPITAS, MODESTO, NOVATO, NILES, OAKLAND, PALO ALTO, PARKFIELD, PETALUMA, PINOLE, POINT REYES STATION, RICHMOND, SAN FRANCISCO, SAN JOSE, SAN LEANDRO, SAN LORENZO, SAN LUCAS, SANTA CLARA, SARATOGA, SAUSALITO, SUISUN, AND WALNUT CREEK. THIS AND QUAKES ON OCTOBER 22, AT 13-35, 14-41, 16-3, OCTOBER 24 AT 22-51, AND FEBRUARY 15, 1927, AT 23-54 WERE ESPECIALLY INVESTIGATED BY GEORGE D. MITCHELL JR. SEE BSSA, V. 18, P. 153.

10/22/1926	13-35-22.	36.57	122.18	A	6.1	4	F	VIII MONTEREY BAY. SIMILAR IN ALMOST EVERY WAY TO THE SHOCK 1 HOUR EARLIER. SHAKEN AREA SLIGHTLY LESS. SLIGHTLY HIGHER INTENSITY AT SAN FRANCISCO, SANTA ROSA, SANTA CRUZ, AND A FEW PLACES TOWARD THE NORTH.
12/10/1926	8-39-53.	40.75	126.00	C	6.0			OFF COAST, WEST OF CAPE MENDOCINO.
9/18/1927	2- 7- 7.	37.50	118.75	C	6.0		F	VII SIERRA NEVADA, W OR NW OF BISHOP. FELT OVER AN AREA OF 75,000 SQUARE MILES. VII+ AT BISHOP. VI AT BASS LAKE. IV-V AT BIG PINE, ABERDEEN, DEEP SPRING, FRESNO, BENTON, MONO LAKE, MARIPOSA, YOSEMITE, HANFORD, TULARE, PORTERVILLE, AND VISALIA, AND AT MINA, TONOPAH, CANDELIA, AND GOLDFIELD, NEVADA.
8/ 5/1930	0-11- 6.	39.75	127.42	C	5.3	1		OFF COAST, WEST OF CAPE MENDOCINO.
8/23/1931	18- 1-35.	40.20	125.60	D	5.3	1	F	OFF CAPE MENDOCINO. FELT OVER A LAND AREA OF 4,500 SQUARE MILES. VI AT PUNTA GORDA AND HYDESVILLE. V AT ALTON, BRICELAND, FERNBRIDGE, GARBERVILLE, HUMBOLDT BAY, EUREKA, LOLETA, METROPOLITAN, AND PEPPERWOOD.
9/ 3/1931	13-40-30.	40.80	125.00	D	5.8	1	F	OFF COAST NEAR EUREKA. FELT OVER AN AREA OF 15,000 SQUARE MILES. VI AT BLOCKSBURG, DYERVILLE, FERNBRIDGE, FERNDALE, HOLMES, AND WEOTT. V AT ALDERPOINT, BRICELAND, BELL SPRINGS, BRANSCOMB, COVELO, CHICO, DOS RIOS, EEL ROCK, EUREKA, FORT SEWARD, FRUITLAND, FORTUNA, GARBERVILLE, ISLAND MOUNTAIN, KNEELAND, MIRANDA, PEPPERWOOD, PUNDA GORDA, SCOTIA, SKELLY, UPPER MATTOLE, WHITLOW, AND ZENIA.
2/26/1932	16-58--0.	36.00	121.00		5.0		F	IV APTOS, ASILOMAR, GONZALES, METZ, CARMEL, PEBBLE BEACH, MONTEREY, PACIFIC GROVE, DELMONTE.
3/ 2/1932	17-14-36.	40.20	127.00	D	5.6	1		WEST OF CAPE MENDOCINO.
6/ 6/1932	9-44-22.	40.75	124.50		6.4	1	F	VIII AT ARCATA, BAYSIDE, BEATRICE, BLUE LAKE, BLUNTS REEF, BRIDGEVILLE, EEL RIVER, CRESCENT CITY, EUREKA, FIELDS LANDING, FORT DICK, FORTUNA, HUMBOLDT BAY, KORBEL, LOLITA, SOUTH BAY, TABLE BLUFF.
9/23/1932	11-52-45.	40.00	126.20	D	5.0	1		WEST OF CAPE MENDOCINO.
12/21/1932	6-10- 5.	38.75	118.00		7.2	1	F	VI AT NEWMAN. V AT BIG PINE, COALINGA, CORCORAN, FRESNO, FREEPORT, GRASS VALLEY, GUSTINE, HERALD, KEELER, LAWS, LODI, LONE PINE, LOS BANOS, MODESTO, NEVADA CITY, OWENYO, PITTSBURG, SACRAMENTO, SATTLEY, SANGER, SELMA, STOCKTON, THREE RIVERS, TULARE, WATERFORD, WOODLAND, YOLO. EPICENTER IN NEVADA.
1/ 5/1933	6-50-20.	38.75	118.00		5.7		F	RATTLED WINDOWS IN SONORA. BERKELEY S-P = 45 SECONDS. EPICENTER IN NEVADA.
6/25/1933	20-45-27.	39.08	119.33		6.1	1	F	FELT OVER AN AREA OF 40,000 SQUARE MILES CENTERED IN WESTERN NEVADA. VII AT WABUSKA, VIRGINIA CITY, AND YERINGTON, NEVADA. VI AT CARSON CITY, DAYTON, FALLON, FORT CHURCHILL, LAHONTON, MANHATTAN, MASON, MINDEN, SCHURZ, STEWART, NEVADA, AND AT LODI, MARKLEEVILLE, AND TAHOE CITY, CALIFORNIA. V AT GOLD HILL, HAWTHORNE, HAZEN, RAWHIDE, RENO, RODERICK, AND VERDI, NEVADA, AND AT GRASS VALLEY, LOCKFORD, LOG CABIN, MT. GREGORY, NEVADA CITY, OMO RANCH, SANTA ROSA, VARNER, AND VOLCANOVILLE, CALIFORNIA.
1/30/1934	20-16-31.	38.28	118.36	A	6.3		F	EXCELSIOR MOUNTAINS, NEVADA, NEAR CALIF. BORDER. FELT OVER AN AREA OF 110,000 SQ. MI. VII AT SILVER DYKE, MINA, AND SODAVILLE, NEVADA. IV AT HAWTHORNE, NEVADA. V AT DIXIE VALLEY, FALLON, GOLDFIELD, HAZEN, LUNING, IONE, SCHURZ, AND YERINGTON, NEVADA. (BSSA V.25, P. 161.)
3/13/1934	16-30--0.	38.00	118.00	D	5.0		F	HAWTHORNE, NEVADA.
6/ 5/1934	21-48--0.	35.80	120.33	A	5.0		F	V AT ADELAIDA, PARKFIELD, AND PRIEST. IV AT ATASCADERO, AVENAL, BIG SUR, BRYSON, CARMEL, HANFORD, KING CITY, LEMOORE,

							LONOAK, PARAISO, SAN MIGUEL, SANTA CRUZ, SHANDON, AND TEMPLETON. III AT APTOS, BOULDER CREEK, CAMBRIA, CHUALAR, COALINGA, GONZALES, HOLLISTER, MONTEREY, MORRO BAY, PASO ROBLES, SALINAS, SAN FRANCISCO, SAN JOAQUIN VALLEY, SAN LUIS OBISPO, SOLEDAD, SPRECKELS, ETC. NOT FELT AT ANTIOCH, BAKERSFIELD, FRESNO, GILROY, LIVERMORE, LOS GATOS, MARICOPA, MERCED, MODESTO, MORGAN HILL, REDWOOD CITY, SAN JOSE, SANTA MARIA, TULARE, OR WATSONVILLE.
6/ 8/1934	4-30--0.	35.80	120.33	B	5.0	F	VI TO VII AT CHOLAME RANCH, PARKFIELD, AND STONE CANYON. DURATION 30 SECONDS. DAMAGE SLIGHT. V AT ATASCADERO, COALINGA, HOLLISTER, KING CITY, LEMOORE, AND SAN MIGUEL. IV AT ANTELOPE, BIG SUR, CAMBRIA, CASTROVILLE, DELANO, MONTEREY, PASO ROBLES, SAN LUIS OBISPO, SANTA BARBARA, SANTA MARGARITA, SANTA MARIA, SOLEDAD, TAFT, VENTURA, VISALIA, ETC. III OR LESS AT ARVIN, BAKERSFIELD, DELANO, FRESNO, KERNVILLE, LOMPOC, LOS ANGELES, MENDOTA, PORTERVILLE, SALINAS, SAN BENITO, SANTA ANA, SANTA BARBARA, TULARE, WATSONVILLE, ETC. NOT FELT AT BIG BASIN, CAJON, COYOTE, GILROY, HUNTINGTON BEACH, INDEPENDENCE, INYOKERN, LANCASTER, MERCED, POMONA, OR SAN JOSE.
6/ 8/1934	4-47--0.	35.80	120.33	B	6.0	F	FELT WITHIN A RADIUS OF 250 KM FROM THE EPICENTER NEAR THE SOUTHEASTERN ANGLE OF MONTEREY COUNTY. VII TO VIII AT PARKFIELD. VI AT COALINGA, KETTLEMAN CITY, LEMOORE, AND STONE CANYON. V AT ATASCADERO, DUDLEY, HOLLISTER, KING CITY, OILFIELDS, SAN MIGUEL, SEASIDE, SHALE PUMP STATION, AND SHANDON. IV AT ANTELOPE, AVILA, CONOGA PARK, HANFORD, LOS ALAMOS, MARICOPA, MORRO BAY, NIPOMO, PASO ROBLES, PRIEST, SAN LUIS OBISPO, SANTA CRUZ, SANTA MARIA, SOLEDAD, VISALIA, ETC. III OR LESS AT APTOS, FRESNO, KERNVILLE, LONE PINE, LOS BANOS, MENDOTA, MONTEREY, OAKLAND HARBOR, SALINAS, SAN BENITO, SANTA ANA, TEHACHAPI, TULARE, ETC.
12/24/1934	16-26--0.	35.93	120.48	B	5.0	F	IV AT LOS ALAMOS AND SHANDON. ALSO FELT AT KING CITY AND TEMPLETON.
1/ 2/1935	22-40-58.	40.25	125.25		5.8	F	OFF CAPE MENDOCINO. V AT ALDERPOINT, FORT BRAGG, HOLMES, KORBEL, ORLEANS, SHELLY. IV AT ALBION, ARCATA, BAYSIDE, BENBOW, ELK RIVER, EUREKA, FERNDALE, HONEYDEW, RIO DELL, ROHNERVILLE, SCOTIA, SOUTH FORK, UPPER MATTOLE, WADDINGTON, WEOTT, AND WHITLOW.
6/ 3/1935	17- 8--0.	41.00	124.00	D	5.0		WEST OF EUREKA.
5/10/1936	17-40--0.	37.50	118.53	C	5.0	F	NORTH OF BISHOP. FELT OVER AN AREA OF 6,000 SQUARE MILES. V AT BISHOP. IV AT BENTON, BIGPINE, BURGYN'S ROAD CAMP, DEEP SPRINGS, DELPIEDRA, INDEPENDENCE, JUNE LAKE, KEELER, LITTLE ROUND VALLEY, MCGEE CREEK, MAMMOTH LAKES, MIRAMONTE, MOCALNO, MONO LODGE, ONYX, OWENS RIVER GORGE, PORTERVILLE, AND STRATFORD.
6/ 3/1936	9-15- 0.0	40.16	126.45	D	5.8	F	OFF CAPE MENDOCINO. V AT FERNDALE, PUNTA GORDA, UPPER MATTOLE, AND WEOTT. IV AT ALDERPOINT, ALTON, ARCATA, BAYSIDE, BEATRICE, BENBOW, BRICELAND, BRIDGEVILLE, CAPETOWN, EUREKA, FERNBRIDGE, FIELDS LANDING, FORT BRAGG, FORTUNA, GARBERVILLE, HARRIS, HOLMES, KORBEL, LOLETA, RIO DELL, ROHNERVILLE, SOMOA, SCOTIA, SOUTH FORK, TRINIDAD, WADDINGTON, AND WESTPORT.
7/ 2/1936	16-29--0.	39.20	117.50	D	5.0	F	NEVADA.
10/10/1936	1-25--0.	41.00	125.00	D	5.0		OFF COAST OF NORTHERN CALIFORNIA.
2/ 7/1937	4-41-34.	40.50	125.25		5.8	F	FELT OVER AN AREA OF 10,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA. V AT ALDER POINT, ARCATA, CAPE MENDOCINO, CAPETOWN, EUREKA, FERNDALE, FIELDS LANDING, ORLEANS, SCOTIA, SHIVELEY, TRINIDAD, AND UPPER MATTOLE.
2/19/1937	9- 9--0.	38.30	118.30	C	5.0	F	FELT OVER AN AREA OF 5,000 SQUARE MILES OF WEST-CENTRAL NEVADA. V AT HAWTHORNE AND YERINGTON, NEVADA. IV AT BRIDGEPORT AND LUNING, MINA, AND TONOPAH, NEVADA.

							COAST OF NORTHERN CALIFORNIA.
7/ 1/1938	18-13--0.	41.00	124.00	D	5.0		
9/12/1938	6-10--0.	40.00	124.00	D	5.5	F	FELT OVER AN AREA OF 20,000 SQUARE MILES IN NORTHERN CALIFORNIA. VI AT ALDER POINT, BRIDGEVILLE, EEL ROCK, FERNDALE, FORTUNA, GARBERVILLE, GRIZZLY CREEK, HARRIS, HOLMES, OCEAN HOUSE, PEPPERWOOD, SCOTIA, SHIVELY, UPPER MATTOLE, AND WEOTT. V AT ALTON, ARCATA, BAYSIDE, BEATRICE, BELL SPRINGS, BENBOW, BRANSCOMB, CAPETOWN, CAPE MENDOCINO, CARLOTTA, COMPTCHE, COVELO, CUMMINGS, CUTTEN, DEL LOMA, ETTERSBURG, EUREKA, FERNBRIDGE, FIELDS LANDING, FORT BRAGG, FORT SEWARD, HONEYDEW, ISLAND MOUNTAIN, LAKE MOUNTAIN, LOLETA, LOW GAP, MIRANDA, PETROLIA, PUNTA GORDA, RIO DELL, SOUTH FORK, SPY ROCK, AND ZENIA.
9/27/1938	12-23- 0.0	36.45	121.25	C	5.0	F	FELT OVER AN AREA OF 9,000 SQUARE MILES OF WEST CENTRAL CALIFORNIA, ALONG THE COAST AS FAR AS PESCADERO AND TO THE SOUTH TO SAN LUIS OBISPO. INLAND IT WAS FELT AT STEVENSON, MENDOTA, AND COALINGA. V AT BIG SUR, BRYSON, CHUALAR, GONZALES, GREENFIELD, HARMONY, HOLLISTER, JOLON, LOCKWOOD, PAICINES, PARAISO, PINNACLES, SAN ARDO, SAN BENITO, SAN LUCAS, SOLEDAD, AND SPRECKELS. IV AT BEN LOMOND, CAMBRIA, CASTROVILLE, CARMEL, DOS PALOS, GILROY, KING CITY, LOS BANOS, MENDOTA, MONTEREY, PASO ROBLES, PRIEST, SALINAS, SAN LUIS OBISPO, TRES PINOS, WATSONVILLE, ETC.
12/ 3/1938	17-42--0.	37.50	118.77	B	5.5	F	FELT OVER AN AREA OF 24,000 SQUARE MILES OF SOUTH-CENTRAL CALIFORNIA. VI AT DELPIEDRA, INDEPENDENCE, TERRA BELLA, AND VISALIA. V AT CEDAR GROVE, DUNLAP, FRESNO, SEQUOIA NATIONAL PARK, HETCH HETCHY, LAWS, MAMMOTH LAKES, MATHER, PINEHURST, PINERIDGE, AND STANISLAUS.
1/ 7/1939	20-21--0.	36.00	117.73	B	5.0	F	NEAR COSO HOT SPRINGS. TWENTY-TWO SMALL AFTERSHOCKS RECORDED AT HAIWEE. FELT AT BODFISH, DARWIN, HOSPITAL ROCK, KERN CANYON, ISABELLA, KERNVILLE, AND TRONA.
1/11/1939	22- 0--0.	39.00	119.20	D	5.5	F	FELT OVER AN AREA OF 8,000 SQUARE MILES IN EAST-CENTRAL CALIFORNIA AND WEST-CENTRAL NEVADA. VI AT COLEVILLE. V AT ALTAVILLE AND TUOLUMNE, AND GARDNERVILLE AND HUDSON, NEVADA.
5/11/1939	18- 4--0.	38.58	117.83	C	5.5	F	NEAR MINA, NEVADA. FELT OVER AN AREA OF 38,000 SQUARE MILES. VI AT RAWHIDE, NEVADA. V AT BODIE AND CARSON CITY, GILBERT, MINA, MT. MONTGOMERY, SCHURZ, AND YERINGTON, NEVADA. IV AT BENTON AND BRIDGEPORT, AND DYER, EUREKA, FALLON, GOLDFIELD, HAWTHORNE, HAZEN, HUDSON, IONE, LOVELOCK, LUNING, MASON, ROUND MOUNTAIN, SILVER PEAK, AND TONOPAH, NEVADA.
6/13/1939	17-15--0.	37.02	117.25	B	5.0	F	FELT AT DARWIN, DEATH VALLEY, AND TINEMAHA, AND AT BEATTY, NEVADA.
6/24/1939	13- 2- 0.0	36.80	121.45	C	5.5	F	FELT OVER AN AREA OF 10,000 SQUARE MILES IN WEST CENTRAL CALIFORNIA, ALONG THE COAST AS FAR NORTH AS HALF MOON BAY AND TO THE SOUTH TO ESTERO BAY. INLAND IT WAS FELT AT VOLTA , TRANQUILITY, AND COALINGA. VII AT HOLLISTER. VI AT KING CITY AND PAICINES. V AT CAYUCOS, SOLEDAD, AND SPRECKELS. IV AT APTOS, BEN LOMOND, BIG BASIN, BIG SUR, BOULDER CREEK, CAMBRIA, CARMEL, CASTROVILLE, CHUALAR, GILROY, GONZALES, LOCKWOOD, MILPITAS, MONTEREY, NIPOMO, PASO ROBLES, PINNACLES, SALINAS, SAN ARDO, SAN BENITO, SAN JUAN, SAN MIGUEL, SAN SIMEON, SANTA CRUZ, TRES PINOS, AND WATSONVILLE.
12/28/1939	12-15-38.	35.80	120.33	B	5.0	F	FELT OVER AN AREA OF 15,000 SQUARE MILES IN WEST-CENTRAL CALIFORNIA, ON THE COAST FROM SANTA CRUZ SOUTH TO POINT ARGUELLO AND INLAND TO LOST HILLS AND FRESNO. V AT COALINGA, FRESNO, GREENFIELD, PRIEST, SAN ARDO, AND SAN LUCAS. IV AT APTOS, ATASCADERO, BIG SUR, CAMBRIA, CARMEL, CASTROVILLE, CAYUCOS, CHUALAR, COALINGA, GONZALES, HOLLISTER, KING CITY, MENDOTA, MONTEREY, MORRO BAY, PARKFIELD, PASO ROBLES, PINNACLES, SALINAS, SAN JUAN BAUTISTA, SAN LUIS OBISPO, SANTA CRUZ, SOLEDAD, TAFT, ETC.
2/ 8/1940	8- 5-59.0	40.00	121.60		5.7	F	FELT OVER AN AREA OF 28,000 SQUARE MI.

							OF NORTH CENTRAL CALIFORNIA. VI AT ALMANOR, BANGOR, BUTTE CITY, CHICO, GRIDLEY LA PORTE, NEVADA CITY, PARADISE, TEHAMA, AND VINTON. V AT BAXTER, BECKWOARTH, BELDEN, BLAIRSDEN, CARIBOU, CHESTER, CORNING, CRESCENT MILLS, DE SABLA, DUTCH FLAT, FEATHER RIVER, CAJON, FOREST RANCH, GRANITEVILLE, GREENVILLE, GRIMES, MEADOW VALLEY, MILFORD, MILLVILLE, MINERAL, OROVILLE, PORTOLA, QUINCY, SENECA, WOODLAND, AND YOLO. NEW BERKELEY SOLUTION 1973.
7/ 8/1940	10-57-40.	37.45	119.00	C	5.0	F	SIERRA NEVADA, SOUTH OF MAMMOTH. FELT AT BENTON, BISHOP, HOT CREEK, HUNTINGTON LAKE, LAKESHORE, AND YOSEMITE VALLEY.
12/20/1940	23-40-42.	40.00	124.00	D	5.5	F	FELT OVER AN AREA OF 9,000 SQUARE MILES OF NORTHERN CALIFORNIA. VI AT BENBOW, BRICELAND, ETTERSBURG, FERNDALE, FORT BRAGG, GARBERVILLE, AND ROCKPORT. V AT FIELDS LANDING, FOREST GLEN, HARRIS, PETROLIA, PUNTA GORDA, UPPER LAKE, UPPER MATTOLE, WEOTT, AND WILLITS.
2/ 9/1941	9-44-42.0	40.70	125.40		6.4	F	FELT OVER AN AREA OF 17,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA AND SOUTHWESTERN OREGON. VI AT ARCATA, EUREKA, FERNDALE, PUNTA GORDA, AND SHELTER COVE. V AT BRIDGEVILLE, CARLOTTA, CRESCENT CITY, FIELDS LANDING, FOREST GLEN, FORT SEWARD, FORTUNA, GARBERVILLE, KLAMATH, LOLETA, ORICK, ORLEANS, SCOTIA, SOUTH FORK, TRINIDAD, UPPER MATTOLE, WEOTT, AND WILLOWS CREEK, AND GRANTS PASS AND PORT ORFORD, OREGON.
5/13/1941	16- 1-54.0	40.30	126.40		6.0	F	FELT AT ARCATA, BEN LOMOND, BLUE LAKE, BOLINAS, CARLOTTA, ETTERSBURG, EUREKA, FERNDALE, FORT BRAGG, LOLETA, PETROLIA, REDWOOD CITY, RIO DELL, ROCKPORT, SAN FRANCISCO, SANTA CRUZ, SCOTIA, SHIVELEY, TRINIDAD, UKIAH, UPPER MATTOLE, WILDWOOD, AND WILLITS. ALSO FELT AT DEPOE BAY AND KNAPPA, OREGON.
7/18/1941	3-53-42.	40.00	119.00	D	5.0	F	WADSWORTH, NEVADA.
9/14/1941	16-43-32.	37.57	118.73	B	6.0	F	OWENS VALLEY. FELT OVER AN AREA OF 30,000 SQUARE MILES. VI AT BENTON, COLUMBIA, COULTERVILLE, GROVELAND, INCLINE, OAKHURST, AND TUOLUMNE. V AT AUBERRY, BIG CREEK, CATHAY VALLEY, DELPIEDRA, DUNLAP, FRESNO, FRIANT, JAMESTOWN, KINGS CANYON NATIONAL PARK, LAKESHORE, LAWS, LONE PINE, MAMMOTH LAKES, PINE CREEK CANYON, PORTERVILLE, RAISEN, REDS MEADOW, SHAVER LAKE, AND SONORA, AND DYER AND MT. MONTGOMERY, NEVADA.
9/14/1941	18-21-19.0	37.57	118.73	B	5.5	F	AFTERSHOCK OF 16-43-32. FELT OVER AN AREA OF 27,000 SQUARE MI. VI AT PINEDALE AND PINERIDGE. V AT ASH PEAK, BIG CREEK, BRECKENRIDGE, EL PORTAL KINGS CANYON NATIONAL PARK, PORTERVILLE, RAISIN, REEDLEY, AND RIVERDALE, AND MT. MONTGOMERY, NEVADA.
9/14/1941	18-39-12.	37.57	118.73	B	6.0	F	OWENS VALLEY. FELT OVER AN AREA OF 36,000 SQUARE MILES. VI AT NORTH FORK AND YOSEMITE VALLEY. V AT BIG CREEK, BRECKENRIDGE, DUNLAP, EL PORTAL, KAWEAH, KINGS CANYON NATIONAL PARK, MADERA, MAMMOTH LAKES, NEWMAN, OAKHURST, O'NEALS, PINERIDGE, PORTERVILLE, AND RAISIN, AND DYER AND MT. MONTGOMERY, NEVADA.
9/14/1941	21-16- 1.	37.57	118.73	B	5.0	F	AFTERSHOCK OF 18-39-12. FELT AT BIG CREEK
10/ 3/1941	16-13- 8.	40.40	124.80	C	6.4	F	FELT OVER AN AREA OF 12,000 SQUARE MILES OF NORTHWESTERN CALIFORNIA AND SOUTHWESTERN OREGON. VII AT EUREKA. VI AT FERNDALE, FIELDS LANDING, KORBEL, PEPPERWOOD, PUNTA GORDA, RIO DELL, ROCKPORT, AND UPPER MATTOLE. V AT ARCATA, BENBOW, BRICELAND, CAPE MENDOCINO, CARLOTTA, DYERVILLE, GARBERVILLE, HOLMES, HYAMPOM, KNEELAND, LOLETA, PETROLIA, AND WILDWOOD.
10/ 6/1941	6-59--0.	40.40	125.00	B	5.0		EUREKA AFTERSHOCK.
12/31/1941	6-48-44.	37.57	118.73	B	5.5	F	OWENS VALLEY. FELT OVER AN AREA OF 28,000 SQUARE MILES. VI AT OWENS RIVER GORGE. V AT BENTON, FRESNO, KINGS CANYON NATIONAL PARK, LAWS, MIRAMONTE, TINEMAHA, AND YOSEMITE, AND DYER, NEVADA.
8/18/1942	21-55-24.	38.60	118.50	D	5.0	F	FELT OVER AN AREA OF 7,000 SQUARE MILES NEAR HAWTHORNE, NEVADA. VI AT MASON AND MT. MONTGOMERY, NEVADA. IV AT BENTON,

							RUDIE, AND BRIDGEPORT, AND FALLON, HAWTHORNE, AND YERINGTON, NEVADA.
12/ 3/1942	9-44-42.	39.70	119.30	D	5.5	F	NEAR WADSWORTH, NEVADA. FELT OVER AN AREA OF 24,000 SQUARE MILES. VI AT FALLON, FERNLEY, AND RENO, NEVADA. V AT EMIGRANT GAP, MARYSVILLE, AND NEVADA CITY, AND AT LOVELOCK, MINDEN, AND STEAMBOAT, NEVADA. IV AT ALLEGHANY, BRIDGEPORT, CHILCOAT, COLOMA, DOWNIEVILLE, FORESTHILL, GRASS VALLEY, GRIZZLY FLATS, JACKSON, PLACERVILLE, QUINCY, AND SACRAMENTO, AND AT CARSON CITY, MASON, NIXON, SMITH, STILLWATER, SULPHUR, AND WINNEMUCCA, NEVADA
12/17/1942	15- 7-43.	39.87	119.90	C	5.1	F	V AT BRIDGEPORT, MARKLEEVILLE AND TOPAZ. IV AT GRIZZLY FLATS, JACKSON AND SONORA.
3/30/1943	21- 7-28.	39.43	120.40	C	5.3	F	FELT WIDELY IN THE NORTHERN SIERRA NEVADA. V AT BLUE CANYON, TRUCKEE AND STEWART, NEVADA. IV AT EMIGRANT GAP, MARKLEEVILLE, NEVADA CITY AND CARSON CITY, MINDEN AND RENO, NEVADA. III AT BIJOU, COLUSA, LAS PLUMAS, SACRAMENTO, SODA SPRINGS AND STEAMBOAT, NEVADA. II AT MARYSVILLE AND SIERRA CITY.
8/ 9/1943	5-30- 4.	38.20	118.20	C	5.5	F	NEAR FILBEN, NEVADA. FELT OVER AN AREA OF 34,000 SQUARE MILES. VI AT BASALT, DYER, AND FALLON, NEVADA. V AT KEELER AND MIRAMONTE, CALIF., AND GOLDFIELD AND SCHURZ, NEV. IV WIDELY IN CALIF. AND NEV.
1/12/1944	15- 9-40.	40.30	124.90	D	5.1	F	V AT CAPE MENDOCINO, EUREKA AND FERNDALE. IV AT CUMMINGS, SCOTIA, UPPER MATTOLE, AND WESTPORT.
1/16/1944	2-23-29.	40.30	125.10	D	5.1	F	V AT UPPER MATTOLE, IV AT FERNDALE.
5/ 2/1945	19-47-54.	41.20	123.50	D	5.0	F	NEAR SCOTT MT. FELT OVER AREA OF 3,500 SQUARE MILES IN NW CALIFORNIA. VI ETNA AND BURNT RANCH. V CALLAHAN, CLEAR CREEK, EUREKA, HYAMPOM, SALYER, WEAVERVILLE, AND WEITCHPEC.
5/10/1945	15- 7- 3.	40.40	126.90	D	6.0	F	OFF COAST OF NO. CALIFORNIA. FELT OVER 1,500 SQUARE MILES FROM CRESCENT CITY TO WILLITS. V UPPER MATTOLE. IV ARCATA, BLUE LAKE, CARLOTTA, EUREKA, FERNDALE, FIELDS LANDING, KLAMATH, ORICK, PIERCY, AND SCOTIA.
6/14/1945	3-33-13.	37.08	117.50	C	5.0		NORTH END OF DEATH VALLEY.
9/29/1945	22-24- 5.	41.90	126.70	D	6.0		USCGS GIVES 41.7 N, 126.9 W.
3/17/1946	14-45-53.	38.30	117.90	D	5.0	F	SW OF HAWTHORNE, NEVADA. V AT LUNING, NEVADA. IV AT BRIDGEPORT, COLEVILLE, EL PORTAL, LAWS, AND YOSEMITE, AND CARSON CITY, FALLON, HAWTHORNE, MINA, SCHURZ, SMITH, SMOKEY VALLEY, TONOPAH, AND YERINGTON, NEVADA.
7/ 7/1946	6-55-15.	40.50	121.50	B	5.0	F	FELT OVER ABOUT 7,000 SQ. MI. IN NO. CALIF VI MILL CREEK AND MINERAL. V CARIBOU AND GRASS VALLEY. IV CHESTER, CHICO, DUTCH FLAT, GRIDLEY, QUINCY, REDDING, AND SUSANVILLE. III MARYSVILLE.
2/ 5/1947	6-14--0.	36.23	120.65	B	5.0	F	VI AT LONOAK, V AT COALINGA, IDRIA, KING CITY. IV AT BIG SUR, HURON, PARKFIELD, SAN ARDO, AND WESTHAVEN.
5/27/1947	20-59--0.	40.40	124.70	B	5.2	F	FELT OVER ABOUT 2,400 SQ. MI. FROM HOOPA TO FORT BRAGG TO TRINIDAD. VI HONEYDEW AND UPPER MATTOLE. V CAPE MENDOCINO LT. STA., EUREKA, FERNDALE, FORT BRAGG, GARBERVILLE, PETROLIA, AND SCOTIA. IV ALDERPOINT, ARCATA, 7 MI. N OF BRIDGEVILLE, CARLOTTA, FORTUNA, AND TRINIDAD.
9/23/1947	13-53-55.	40.40	125.20	C	5.3	F	FELT OVER LAND AREA OF 4,000 SQ. MI. FROM ORICK TO REDDING TO ELK. HEAVY VIBRATIONS FELT AT SEA AT 40 51 N, 124 45 W. VII AT PUNTA GORDA LT. STA. VI AT BRIDGEVILLE, EUREKA, FERNDALE, KNEELAND, FIELDS LANDING, AND UPPER MATTOLE. V AT 18 TOWNS.
1/10/1948	0-45-50.	42.00	127.00	D	5.3		OFF COAST, WEST OF CRESCENT CITY.
8/19/1948	19-11-57.	40.50	124.70	D	5.0	F	V IN EUREKA, FERNDALE, FIELDS LANDING AND LOLETA. FELT ALONG THE COAST FROM ORICK TO PUNTA GORDA.
12/29/1948	12-53-28.	39.55	120.08	B	6.0	F	VERDI FAULT, W OF VERDI, NEV. FELT OVER 40,000 SQ. MI. 5 FORESHOCKS WERE FELT AT RENO ON DEC. 27, AND MORE THAN 750 AFTERSHOCKS, MANY FELT IN RENO, WERE RECORDED AT THE UNIV. OF NEVADA BEFORE NOON

OF JAN. 1, 1949. INTENSITY VII AT FLORISTON AND CHILCOOT, CALIF., AND RENO AND VERDI, NEV. VI AT BAXTER, BIJOU, ISLETON, KINGS BEACH, LOYALTON, MEEKS BAY, SIERRAVILLE, SLOUGHHOUSE, TAHOE, TRUCKEE, AND VINTON, CALIF., AND CARSON CITY, CAMP RICHARDSON, DOBBINS, GARDEN VALLEY, LONG VALLEY, NORDEN, AND SPARKS, NEV.

2/11/1949 21- 5-24. 37.08 117.75 C 5.6 F E OF TINEMAHA. FELT OVER 18,000 SQ. MI.
IN S CENTRAL CALIF. AND SW NEV. VI AT ASH MTN., BAKERSFIELD, BIG PINE, FRESNO, CORCORAN, INDEPENDENCE, HANFORD, LONE PINE, AND OLANCHA. V AT DEATH VALLEY, LAWS, MINERALKING, OWENYO, PINEHURST, AND PORTERVILLE. I TO IV FROM MODESTO TO MOJAVE TO GOLDFIELD, NEVADA.

3/ 9/1949 12-28-39. 37.02 121.48 B 5.2 F FELT OVER AN AREA OF 20,000 SQUARE MILES
ALONG THE PACIFIC COAST OF CENTRAL CALIFORNIA FROM SANTA ROSA SOUTH TO SANTA MARGARITA. DAMAGE WAS CONFINED MOSTLY TO THE CITY OF HOLLISTER, WHERE THE INTENSITY WAS RATED AS VII (FALL OF SOME CHIMNEYS, SOME DAMAGE TO BUILDINGS). VI AT ALAMEDA, ALVISO, APTOS, BEN LOMOND, BERKELEY, CARUTHERS, CASTROVILLE, CHUALAR, COYOTE, FAIRFAX, FELTON, FOREST KNOLLS, GILROY, HALF MOON BAY, HAYWARD, LA HONDA, LOMA MAR, LOS BANOS, MADRONE, MORGAN HILL, MT. HERMON, MOSS LANDING, NEWARK, NILES, OAKLAND, PALO ALTO, PESCADERO, PINOLE, REDWOOD CITY, SALINAS, SAN ANSELMO, SAN FRANCISCO, SAN GREGORIO, SAN JOSE, SAN MARTIN, SAN RAMON, SANTA CRUZ, SAUSALITO, SEASIDE, SHARP PEAK, SOLEDAD, SOQUEL, SPRECKELS, SUNNYVALE, TRES PINOS, WALNUT CREEK, AND WATSONVILLE.

3/24/1949 20-56-56. 41.30 126.00 D 5.9 F USCGS EPICENTER 42 N, 126.5 W. FELT AT
SEVERAL LOCATIONS ALONG THE OREGON AND CALIFORNIA COAST.

3/25/1949 4-56-48. 42.00 126.50 6.2 F OFF COAST, WEST OF CRESCENT CITY. FELT AT
GRANTS PASS, OREGON.

9/14/1949 5-27-42. 40.40 126.20 D 5.0 OFF CAPE MENDOCINO.

3/20/1950 15-22-17. 40.45 121.47 B 5.5 F MAIN SHOCK IN SWARM OF MT. LASSEN QUAKES.
FELT THROUGHOUT 4,000 SQ. MI. AREA IN NE CALIF. FROM HAT CREEK TO SUSANVILLE, SACRAMENTO, AND SHASTA DAM. V AT MINERAL, MANZANITA LAKE, CHESTER, CHICO, LAKE ALMANOR, GRIDLEY, MAGALIA, MILL CREEK, AND SUSANVILLE. ALSO REPORTED FELT AT RENO AND YERRINGTON, NEVADA. 29 SMALL FORESHOCKS RECORDED AT MINERAL BETWEEN 3/20/50, 13-52-0 AND 15-22-17. ABOUT 7,000 IDENTIFIABLE AFTERSHOCKS RECORDED AT MINERAL THROUGH 4/9/50. SEE UNIV. OF CALIF., BERKELEY, BULLETIN OF SEIS. STA.

12/14/1950 13-24-19. 40.08 120.07 B 5.6 F MAIN SHOCK IN SERIES CENTERED NEAR HERLONG
FELT OVER ABOUT 20,000 SQ. MI. OF NE CALIF. AND W NEV. VII AT HERLONG. VI AT BECKWOURTH, DOYLE, LITCHFIELD, PORTOLA, AND WENDEL, CALIF., AND FLANIGAN, NEV. V FROM TERMO TO NEVADA CITY TO LOVELOCK. OVER 50 FORESHOCKS OF MAG. 2 OR GREATER RECORDED BETWEEN 11/22/50, 6-32-42 AND MAIN SHOCK. OVER 200 AFTERSHOCKS OF MAG. 2 OR GREATER RECORDED BY THE END OF DECEMBER.

4/ 1/1951 19-21- 8. 40.47 125.30 C 5.0 F OFF CAPE MENDOCINO. III AT FERNDALE.

7/29/1951 10-53-45. 36.58 121.18 B 5.0 F FELT OVER 10,000 SQ. MI. IN W CENTRAL
CALIF. FROM SAN JOSE TO FRESNO TO SAN LUIS OBISPO. VI AT BITTERWATER, PINNACLES, SAN BENITO, AND SOLEDAD. V AT APTOS, ATASCADERO, AVENAL, BEN LOMOND, BRADLEY, GONZALES, GREENFIELD, HELM, HOLLISTER, IDRIA, KING CITY, LOCKWOOD, PAICINES, ROBLES DEL RIO, SAN ARDO, SAN LUCAS, SAN MIGUEL, SANTA CRUZ, AND SHANDON.

10/ 8/1951 4-10-35. 40.28 124.80 C 5.8 F OFF CAPE MENDOCINO. FELT OVER 9,000 SQ.
MI. IN NW CALIF. VII AT ALTON, GRIZZLY BLUFF, METROPOLITAN, RIO DELL, SCOTIA, WEOTT, FERNDALE, AND BRIDGEVILLE. VI AT UPPER MATTOLE, PETROLIA, GARBERVILLE, FORTUNA, ETTERSBURG, BENBOW, CARLOTTA, KNEELAND, BLOCKSBURG, ALDERPOINT, AND BELL SPRINGS. I TO V FROM ORICK TO S OF CHICO TO PT. ARENA.

12/28/1951 2-49-27. 37.57 118.58 B 5.2 F NEAR OWENS RIVER GORGE. FELT OVER AN AREA
OF 10,000 SQUARE MILES. VI AT LONG VALLEY RESERVOIR. V AT BISHOP, LAWS, ROADS END, SEQUOIA NAT'L. PK. (LODGEPOLE), AND YOSEMITE NAT'L. PK. (CENTRAL AREA).

I TO IV FROM N OF LEEVINING TO RIVERDADE TO WALKER PASS AREA.

5/ 9/1952 15-31-32. 39.42 119.78 C 5.1 F 12 MI. S OF RENO, NEV. FELT OVER 3,000 SQ. MI. IN NE CALIF. AND W NEV. VI AT CARSON CITY AND VIRGINIA CITY, NEV.

9/22/1952 11-41-25. 40.20 124.42 C 5.2 F 12 MILES SOUTHWEST OF PETROLIA. FELT WIDELY IN HUMBOLDT COUNTY. VII AT PETROLIA. VI AT ALTON, BRICELAND, CARLOTTA, ETTERSBURG, FERNDALE, FIELDS LANDING, FORTUNA, GARBERVILLE, HARRIS, HOLMES, HONEYDEW, LOLETA, AND RIO DELL. V AT ALDERPOINT, ARCATA, BEATRICE, BENBOW, BLOCKSBURG, BLUE LAKE, BRIDGEVILLE, CRANNEL, EUREKA, FORT BRAGG, HARTSOOK, KNEELAND, KORBEL, LAYTONVILLE, MCCANN, MIRANDA, PEPPERWOOD, PIEREY SCOTIA, SOUTH FORK, SPYROCK, WEOTT, WESTPORT, AND ZENIA.

11/22/1952 7-46-37. 35.73 121.20 B 6.0 F 6 MILES NORTH OF SAN SIMEON, NEAR BRYSON. FELT OVER AN AREA OF 20,000 SQUARE MILES. VII AT BRADLEY AND BRYSON. VI AT ARROYO GRANDE, ATASCADERO, CAMBRIA, CAMP COOKE, CARMEL VALLEY, CAYUCOS, CHUALAR, CRESTON, GORDA STATION, GUADALUPE, HARMONY, HEARST RANCH, KING CITY, LOCKWOOD, LONOAK, MORRO BAY, OCEANO, PARKFIELD, PASO ROBLES, PISMO BEACH, SALINAS, SAN ARDO, SAN LUIS OBISPO, SAN SIMEON, SANTA MARGARITA, AND TEMPLETON. V AT AVENAL, BEN LOMOND, BIG SUR, BUELLTON, BUTTONWILLOW, CARUTHERS, CASMALIA, CHOLAME, COALINGA, CORCORAN, DOS PALOS, HOLLISTER, HUASNA, KETTLEMAN CITY, LOMPOC, LOST HILLS, LUCIA, MARICOPA, MONTEREY, MOSS LANDING, NIPOMO, ORCUTT, PAICINES, RIVERDALE, SAN MIGUEL, SANTA CRUZ, SANTA MARIA, SHAFTER, STRATFORD, SUDDEN, AND SURF.

3/22/1953 5-19- 0. 38.82 119.98 A 5.0 F 13 MILES NW OF MARKLEEVILLE. V AT MEYERS. IV AT EMIGRANT GAP, MARKLEEVILLE, TAHOE CITY, YOSEMITE. III AT CARSON CITY AND GARNERVILLE, NEVADA.

9/26/1953 3-34-29. 39.53 119.98 B 5.3 F 8 MI. W OF RENO, NEV. FELT SHARPLY OVER 12,000 SQ. MI. OF W NEV. AND N CALIF. MINOR DAMAGE AT RENO. VI AT OLINGHOUSE CANYON, RENO, AND VISTA, NEV., AND FLORISTON, CALIF. V AT CINNABAR HILL RANCH, FERNLEY, SPARKS, AND VIRGINIA CITY, NEV., AND BAXTER, CHILCOOT, AND LA PORTE, CALIF.

4/25/1954 20-33-28. 36.93 121.68 B 5.3 F 16 MI. WNW OF HOLLISTER. FELT OVER 12,000 SQ. MI. VIII IN VERY SMALL AREA ABOUT 10 MI. E OF WATSONVILLE ALONG CHITTENDEN ROAD ON S BANK OF PAJARO RIVER. VII AT AROMAS, FREEDOM, GILROY, HOLLISTER, WATSONVILLE. VI AT APTOS, BOULDER CK., CAPITOLA, CASTROVILLE, CORRALITOS (ENOS RANCH), CUPERTINO, GLENWOOD, LOS GATOS, MADRONE, HOLY CITY, MORGAN HILL, MOSS LANDING, MT. HERMON, NILES, PAICINES, SAN JUAN BAUTISTA, SAN MARTIN, SANTA CRUZ, SOQUEL. IV TO V FROM TOMALES BAY TO ANTIOCH, LIVERMORE, CHOWCHILLA, AND BIG SUR

7/ 6/1954 11-13-20. 39.42 118.53 A 6.8 F NEAR FALLON, NEV. FELT OVER ABOUT 130,000 SQ. MI. OF NEV., CALIF., ORE., AND UTAH. IX ASSIGNED TO GROUND FRACTURE AREA ON E EDGE OF RAINBOW MT. IN STILLWATER RANGE ABOUT 15 MI. SE OF FALLON. VIII AT FALLON, STILLWATER, AND SALT WELLS, NEV. VII AT DIXIE VALLEY. VI TO V ROUGHLY FROM 38.00N, 121.50W TO 36.50N, 118.00W TO 39.50N, 115.50W TO 4 VI TO V ROUGHLY 42.00N, 120.00W TO 38.00N, 121.50W. THE FOLLOWING LIST OF AFTERSHOCKS IS PARTIAL. EPICENTERS ARE ASSIGNED TO BE SAME AS THOSE OF MAIN SHOCKS. FELT REPORTS ARE INCOMPLETE.

7/ 6/1954 11-49- 0. 39.42 118.53 D 5.7 F FALLON AFTERSHOCK. FELT AT BAXTER AND JACKSON AND AT CARSON CITY, FALLON, FERNLEY, DYER, MASON, MINDEN, NIXON, SCHURZ, YERINGTON, HAWTHORNE, AND WINNEMUCCA, NEV.

7/ 6/1954 13-15-11. 39.42 118.53 D 5.2 FALLON AFTERSHOCK.

7/ 6/1954 22- 7-41. 39.30 118.50 A 6.0 F FALLON AFTERSHOCK. VIII 5 MI. SE OF SALT WELLS, NEV. VI AT FALLON,NEV. V AT DYER, FERNLEY, LOVELOCK, AND MASON, NEV. FELT AS FAR AS OAKLAND, CALIF.

7/ 8/1954 19-31-57. 39.30 118.50 D 5.3 F FALLON AFTERSHOCK. V AT AUSTIN, NEVADA.

7/12/1954	16- 5-25.	39.30	118.50	D	5.1	F	FALLON AFTERSHOCK. IV AT FERNLEY, NEVADA.
7/20/1954	0-11-38.	38.20	116.40	D	5.0		45 MILES EAST OF TONOPAH, NEVADA.
7/30/1954	2- 0-10.	39.30	118.50	D	5.1	F	FALLON AFTERSHOCK. FELT NEAR FALLON, NEV.
8/ 2/1954	10-18-53.	39.30	118.50	D	5.4	F	FALLON AFTERSHOCK. V AT FALLON.
8/24/1954	5-51-32.	39.58	118.45	A	6.8	F	NEAR FALLON, NEV. FELT OVER ABOUT 150,000 SQ. MI. OF NEV., CALIF., ORE., IDAHO, AND UTAH. IX ASSIGNED TO GROUND FRACTURE AREA ABOUT 15 MI. E OF FALLON. VIII AT FALLON, LOVELOCK, STILLWATER, AND UPSAL HOGBACK. VII AT DIXIE VALLEY, GERLACH, AND IMLAY, NEV. VI FROM HAWTHORNE TO BATTLE MT., TO N OF WINNEMUCCA TO GERLACH (ALL NEV.) TO LAKE TAHOE. VI ALSO AT YOSEMITE NAT'L. PK. AND SONORA, AND SILVERPEAK, NEV. V FELT IN ALL 5 STATES. THE FOLLOWING LISTS OF AFTERSHOCKS IS PARTIAL. EPICENTERS ARE ASSIGNED TO BE SAME AS THOSE OF MAIN SHOCKS. FELT REPORTS ARE INCOMPLETE.
8/24/1954	5-57-46.	39.50	118.50		5.2		FALLON AFTERSHOCK.
8/31/1954	22-20-32.	39.60	118.20	D	5.8	F	FALLON AFTERSHOCK. DIXIE VALLEY. VII IN THE STILLWATER RANGE, NEVADA. VI AT FALLON, FERNLEY, AND MASON, NEVADA. V AT EUREKA, NEVADA.
9/ 1/1954	5-18-46.	39.60	118.20	D	5.5	F	DIXIE VALLEY AFTERSHOCK. FELT AT FERNLEY, MASON, EUREKA, CARSON CITY, FLANIGAN, AND HAWTHORNE, NEV., AND BAXTER AND YOSEMITE NAT'L. PARK, CALIF.
11/25/1954	11-16-35.	40.27	125.63	B	6.1	F	65 MI. OFF CAPE MENDOCINO. FELT OVER 9000 SQ. MI. OF MENDOCINO AND HUMBOLDT COS. V AT BRIDGEVILLE, BURNT RANCH, EUREKA, CARLOTTA, FERNDALE, FIELDS LANDING, HOOPA, HYAMPOM, KORBEL, LOLETA, ORICK, PEPPERWOOD, SCOTIA, AND SOUTH FORK.
12/16/1954	11- 7-13.	39.32	118.20	A	7.2	F	MAJOR NEVADA EARTHQUAKE. EPICENTER NEAR FRENCHMAN'S STATION, ABOUT 30 MI. ESE OF FALLON. FELT OVER ABOUT 200,000 SQ. MI. FROM LOS ANGELES TO S TIP OF NEVADA TO SALT LKE CITY, UTAH, TO PAYETTE, IDAHO, TO FORT KLAMATH, OREGON, TO SAN FRANCISCO. MAX. INTENSITY X ASSIGNED TO SURFACE RUPTURE IN DIXIE VALLEY-FAIRVIEW PEAK AREA. VII FROM RAWHIDE TO MINA TO W OF EUREKA TO 40.25N, 117.00W (ALL IN NEVADA). THE FOLLOWING AFTERSHOCK LIST AND FELT REPORTS ARE PARTIAL. MOST EPICENTERS ARE ASSIGNED TO BE SAME AS THAT OF MAIN SHOCK.
12/16/1954	11-11-29.	39.50	118.00	D	7.1	F	NEVADA AFTERSHOCK. FELT OVER LARGE AREA INCLUDING SACRAMENTO AND BATTLE MTN., NEVADA.
12/16/1954	11-50-36.	39.50	118.00	D	5.0		NEVADA AFTERSHOCK.
12/16/1954	11-57-30.	39.50	118.00	D	5.0		NEVADA AFTERSHOCK.
12/16/1954	13-15- 3.	39.32	118.20	B	5.0		NEVADA AFTERSHOCK.
12/16/1954	14-16-57.	39.50	118.20	B	5.8		NEVADA AFTERSHOCK.
12/16/1954	14-24-10.	39.50	118.00	D	5.3	F	NEVADA AFTERSHOCK. IV AT LAWS.
12/16/1954	15- 9-42.	39.50	118.20	B	5.1		NEVADA AFTERSHOCK.
12/17/1954	20-27- 6.	39.50	118.00	D	5.0		NEVADA AFTERSHOCK.
12/20/1954	17-36-47.	40.00	118.00	D	5.0	F	NEVADA AFTERSHOCK. FELT IN AUSTIN.
12/21/1954	19-56-29.0	40.78	123.87	B	6.5	F	BETWEEN EUREKA AND ARCATA. FELT OVER 5,000 SQ. MI. OF NO. CALIF. AND ORE. VII AT ARCATA, EUREKA, FERNDALE, BAYSIDE, BEATRICE, BLUE LAKE, BRAINARD, CRANNELL, FIELDBROOK, FIELDS LANDING, FORTUNA, KORBEL, MCKINLEYVILLE, RIO DELL, ROHNERVILLE, SAMOA. V TO VI IN MANY TOWNS FROM BROOKINGS, ORE., TO KLAMATH FALLS, ORE., MCARTHUR, ORLAND, AND WILLITS.
1/ 1/1955	12-13-54.	39.00	118.00		5.1		FAIRVIEW PEAK, NEVADA.
1/ 9/1955	9-10-50.	39.00	118.00		5.0		FAIRVIEW PEAK, NEVADA.
6/19/1955	19-20- 0.	38.97	118.25	B	5.2		FAIRVIEW PEAK, NEVADA.
6/19/1955	19-25-16.	39.00	118.50	D	5.0		FAIRVIEW PEAK, NEVADA.
8/ 8/1955	10-35-35.	38.33	118.67	B	5.2	F	S OF HAWTHORNE, NEV. FELT OVER 9000 SQ. MI. OF NEV. AND CALIF. V GABBS, HAWTHORNE, AND YERINGTON, NEV. AND BRIDGEPORT

							AND BENTON, CALIF.
9/ 5/1955	2- 1-19.0	37.37	121.78	B	5.5	F	6 MI. W OF MT. HAMILTON. FELT OVER 12,000 SQ. MI. OF W CENTRAL CALIF. VII AT SAN JOSE AND E OF SAN JOSE. V AT MANY COMMUNITIES IN CENTRAL CALIF. INCLUDING SAN FRANCISCO.
10/24/1955	4-10-44.	37.97	122.05	A	5.4	F	BETWEEN WALNUT CREEK AND CONCORD. (MAG. BY PASADENA). FELT OVER 12,000 SQ. MI. OF W CENTRAL CALIF. VII AT BERKELEY, CANYON, CONCORD, COWELL, MORAGA, PACHECO, AND WALNUT CREEK. VI THROUGHOUT MUCH OF THE SAN FRANCISCO BAY AREA.
11/ 2/1955	19-40- 6.	36.00	120.92	A	5.2	F	55 MI. NNW OF SAN LUIS OBISPO. FELT OVER 7000 SQ. MI. OF COASTAL W CENTRAL CALIF. VI AT ADELAIDA RD. (14 MI. W OF PASO ROBLES), BRYSON, KING CITY, PASO ROBLES, SAN ARDO, SAN LUCAS, SAN MIGUEL.
11/21/1955	20-25-33.	39.42	118.08	C	5.5		NEVADA AFTERSHOCK (1954).
7/26/1956	9-53-17.	39.55	118.45	B	5.1	F	EAST OF FALLON, NEVADA. FELT AT KENT RANCH, STILLWATER, NEVADA.
8/30/1956	5-24-52.	40.70	126.40	D	5.3		OFF CAPE MENDOCINO.
10/11/1956	16-48-50.	40.67	125.77	B	6.0	F	100 MI. W OF FERNDALE. FELT OVER 3500 SQ. MI. OF HUMBOLDT CO. ALSO FELT AT BUCKS CK. PWHSE. (PLUMAS CO.) AND IN S. OREG. (AT MEDFORD AND SHADY COVE). V AT BAYSIDE, BLUE LAKE, CRANNELL, EUREKA, FERNDALE, FIELDS LANDING, FORTUNA, KORBEL, PETROLIA, AND RIO DELL.
11/16/1955	3-23- 9.	35.95	120.47	B	5.0	F	SW OF COALINGA. FELT OVER 8000 SQ. MI. FROM HOLY CITY TO BETTERVIA TO FIREBAUGH. VI AT MEE RANCH (LONOAK), KING CITY, AND SAN LUCAS.
12/31/1956	17-37-45.	38.25	118.93	B	5.0		FORESHOCK OF QUAKE AT 1739.
12/31/1956	17-39-24.	38.28	118.97	C	5.1	F	SW OF HAWTHORNE, NEV. FELT OVER 6000 SQ. MI. OF W. NEV. AND E. CALIF. VI S OF HAWTHORNE WHERE U.S. HWY. 95 CRACKED. V AT HAWTHORNE AND THORNE, NEV.
2/ 9/1957	16-38- 7.	41.17	126.30	B	5.4		115 MILES WNW OF ARCATA.
3/22/1957	19-44-21.	37.67	122.48	A	5.3		MAIN SHOCK. MAG. BY PASADENA. EPICENTER ON SAN ANDREAS FAULT NEAR MUSSEL ROCK (SAN MATEO CO.). FOCAL DEPTH 7 TO 10 KM. REPORTEDLY STRONGEST SHOCK FELT IN SAN FRANCISCO SINCE 1906. FELT OVER 13,000 SQ. MI. OF W CENTRAL CALIF. 40 MINOR INJURIES, NO DEATHS. DAMAGE (EST. BY ENGINEERS) ABOUT ONE MILLION DOLLARS, PRINCIPALLY IN THE WESTLAKE PALISADES TRACT OF DALY CITY. STATE HWY. 1 CLOSED BY LANDSLIDES BETWEEN MUSSEL ROCK AND THORNTON. VII AT COLMA, DALY CITY, MUSSEL ROCK, SAN BRUNO, SHARP PARK, EDGEMAR, AND PACIFIC MANOR. VI AT AGNEW, ALAMEDA, ALBANY, ASSOCIATED, BELMONT, BERKELEY, BELVEDERE, BODEGA BAY, BOLINAS, BOYES HOT SPGS., BRISBANE, BURLINGAME, CANYON, CONCORD, CORTE MADERA, CROCKETT, DANVILLE, EL SOBRANTE, FAIRFAX, FARALLON IS., FREMONT, HALF MOON BAY, HILLSBOROUGH, KENTFIELD, MARIN CITY, MENLO PARK, MILL VALLEY, MILLBRAE, NAPA, NOVATO, OAKLAND, PALO ALTO, PEDRO VALLEY, PESCADERO, PINOLE, PITTSBURG, PT. REYES, PORT CHICAGO, PORT COSTA, REDWOOD CITY, RICHMOND, ROCKAWAY BEACH, RODEO, ROSS, ST. MARY'S COLL., SAN ANSELMO, SAN CARLOS, SAN FRANCISCO, SAN GERONIMO, SAN JOSE, SAN LEANDRO, SAN LORENZO, SAN MATEO, SAN RAFAEL, SANTA ROSA, SAUSALITO, SONOMA, SOUTH SAN FRANCISCO, SUNNYVALE, TIBURON, VALLEJO, VINEBURG, AND WARM SPRINGS.
3/ 2/1959	23-27-17.	36.98	121.60	B	5.3	F	NEAR GILROY. FELT OVER 8000 SQ. MI. FROM N OF SANTA ROSA TO MANTECA TO SAN LUCAS. MINOR SLIDES ON CHITTENDEN PASS RD. AND HECKER PASS HWY. VI AT AROMAS, BEN LOMOND, BOULDER CREEK, FELTON, FREEDOM, GILROY, HOLLISTER, HOLY CITY, MADRONE, MORGAN HILL, NEW ALMADEN, SAN FRANCISCO, SAN JOSE, SAN JUAN BAUTISTA, SAN MARTIN, SANTA CRUZ, AND WATSONVILLE. V FELT THROUGHOUT MOST OF SO. SAN FRANCISCO BAY AREA. BELOW ARE LISTED AFTERSHOCKS FELT OR OF MAG. 3.0 OR GREATER. SEE U.C. SEISMO. STA. BULL. JAN.-MAR. 1959.
3/23/1959	7-10-20.	39.60	118.02	C	6.3	F	DIXIE VALLEY, NEVADA. FELT OVER 50,000

							SQ. MI. OF NEV. AND CALIF. VI FRENCHMAN'S STA. AND CARSON CITY, NEV. V AUSTIN, EUREKA, FALLON, FERNLEY, FLANIGAN, GENOA, GERLACH, GOLCONDA, HAWTHORNE, HAZEN, IMLAY, LOVELOCK, LUNING, MINDEN, PALISADE, SCHURZ, SILVER SPRINGS, SMITH, STEAMBOAT, STEWART, TUNGSTEN, VIRGINIA CITY, WABUSKA, WELLINGTON, AND YERINGTON, NEV., AND AT COLEVILLE, CALIF. AFTERSHOCKS FELT OR OF MAG. 3.0 OR GREATER ARE LISTED BELOW. SEE U.C. SEISMO. STA. BULL. JAN.-MAR. 1959.
4/ 1/1959	18-18-30.	39.72	120.20	B	5.6	F	FELT OVER AN AREA OF APPROXIMATELY 25,000 SQUARE MILES OF NORTHEASTERN CALIFORNIA AND WESTERN NEVADA. MAXIMUM INTENSITY VII AT LOYALTON, WHERE SEVERAL CHIMNEYS FELL, WALLS, PLASTER AND WINDOWS CRACKED, CONSIDERABLE GLASSWARE AND MERCHANDISE FELL AND BROKE IN HOMES AND STORES. VI AT BAXTER, BECKWOURTH, BLUE CANYON, CHILCOOT, CRESCENT MILLS, DOYLE, HALLELUJAH JUNCTION, KINGS BEACH, PORTOLA AND VINTON. FORESHOCKS AT 17-05-49 AND 18-02-12 OF MAGNITUDES 2.0 AND 2.2, RESPECTIVELY.
6/23/1959	14-35- 0.	39.08	118.82	B	6.1	F	NORTHEAST OF YERINGTON, NEVADA. MAIN SHOCK FELT OVER AN AREA OF APPROXIMATELY 35,000 SQUARE MILES OF CALIFORNIA AND EASTERN NEVADA. MAXIMUM INTENSITY VI. MINOR DAMAGE AT SCHURZ, NEVADA. MINOR ROCKSLIDES IN THE MOUNTAINS NEAR SCHURZ. VI AT GENOA, MASON, SCHURZ, AND WABUSKA, NEVADA. V AT A NUMBER OF COMMUNITIES IN WEST-CENTRAL NEVADA AND EAST-CENTRAL CALIFORNIA.
6/23/1959	15- 4-34.	39.10	118.80	D	5.5	F	AFTERSHOCK OF QUAKE AT 1435. FELT CARSON CITY, DYER, EUREKA, GENOA, HAWTHORNE, LUNING, THORNE, AND TONOPAH, NEV., AND EL PORTAL, SALT SPRINGS PWHSE., AND TOPAZ, CALIF.
7/24/1959	1-23- 9.	41.13	125.30	B	5.8	F	WNW OF ARCATA. FELT ALONG COAST FROM CRESCENT CITY TO RIO DELL. IV AT EUREKA.
8/ 4/1959	7-36-59.	37.35	118.55	C	5.2	F	WEST OF BISHOP. FELT OVER AN AREA OF 12,000 SQUARE MILES. VI AT BISHOP. V AT BADGER, BASS LAKE, BIG CREEK, BIG PINE, BURREL, COALINGA, DINKELY CREEK, DUNLAP, EL PORTAL, EXETER, FRESNO, IVANHOE, JOHNSONDALE, JUNE LAKE, KINGS CANYON, LAKESHORE, LATON, LAWS, LONG VALLEY DAM, MIRAMONTE, PRATHER, SEQUOIA NATIONAL PARK, SHAVER LAKE, TOLLHOUSE, WISHON, AND WOODLAKE.
12/ 5/1959	8-13-42.	40.30	125.42	C	5.1	F	OFF CAPE MENDOCINO. FELT OVER 2000 SQ. MI. OF HUMBOLDT CO. V AT ALTON, BAYSIDE, BRICELAND, FERNDALE, FIELDS LANDING, GARBERVILLE, HOLMES, LAYTONVILLE, LOLETA, PEPPERWOOD, AND RIO DELL.
1/20/1960	3-25-53.	36.78	121.43	B	5.0	F	S OF HOLLISTER. FELT OVER 7500 SQ. MI. OF COASTAL CENTRAL CALIF. VI AT W.A. TAYLOR WINERY (7 MI. S OF HOLLISTER). HARRIS RANCH (7.5 MI. S OF HOLLISTER). HOLLISTER, AND PAICINES. V FROM MORGAN HILL TO LOS BANOS TO SAN ARDO TO PACIFIC GROVE. SEE BSSA JULY 1960.
6/ 5/1960	7-47- 7.	37.52	118.73	C	5.2	F	FELT OVER AN AREA OF APPROXIMATELY 4,800 SQUARE MILES OF EAST-CENTRAL CALIFORNIA, EXTENDING ON THE NORTH FROM YOSEMITE VILLAGE EAST TO BENTON, SOUTH TO BISHOP AND LAWS, SOUTHWEST TO THREE RIVERS AND WOODLAKE, NORTHWEST THROUGH FRIANT TO SNELLING, THENCE NORTHEAST THROUGH EL PORTAL TO YOSEMITE. MAXIMUM INTENSITY VI AT CROWLEY LAKE (LONG VALLEY DAM). NO DAMAGE REPORTED. EPICENTER IN UNSETTLED AREA. V AT BASS LAKE, BISHOP, DINKEY CREEK, EL PORTAL, AND YOSEMITE VILLAGE.
6/ 6/1960	1-17-48.	40.82	124.88	C	5.7	F	FELT OVER A LAND AREA OF APPROXIMATELY 8,000 SQUARE MILES, PRINCIPALLY IN HUMBOLDT AND TRINITY COUNTIES. MAXIMUM INTENSITY VI AT CRANNELL, EUREKA, AND FERNDALE. V AT ALTON, BAYSIDE, BLUELAKE, CUTTEN, DENNY, ETTERSBURG, FIELDS LANDING, FORTUNA, FRESHWATER, GARBERVILLE, HOLMES, HOOPA, KNEELAND, KORBEL, LOLETA, MCKINLEYVILLE, RIO DELL, SAMOA, AND WEITCHPEC.
8/ 9/1960	7-39-18.	40.32	127.07	C	6.2	F	OFF CAPE MENDOCINO. FELT OVER 6500 SQ. MI. OF NW CALIF. V COMPTCHE, CUMMINGS, FERNDALE, FT. BRAGG, AND FORTUNA.

12/27/1960	10-35-26.	41.52	125.05	B	5.4		F	NW OF ARCATA. DEPTH ABOUT 61 KM. FELT IN DEL NORTE AND HUMBOLDT COS. V AT FERNDALE, KLAMATH, AND RIO DELL. IV AT CRANNEL, CRESCENT CITY, AND TRINIDAD.
1/28/1961	8-12-46.	35.77	118.05	A	5.3		F	NEAR WALKER PASS. FELT OVER AN AREA OF 13,000 SQUARE MILES. VI AT BODFISH, JOHANNESBURG, KERNVILLE, LAKE ISABELLA, ONYX, AND WELDON. V AT ARVIN, BAKERSFIELD, BALANCE ROCK, BASS LAKE, BIG CREEK, CALIFORNIA HOT SPRINGS, CANTIL, GLENNVILLE, HINKLEY, INYOKERN, JOHNSONDALE, KAWEAH, KEENE, LINDSAY, MIRACLE HOT SPRINGS, OLANCHA, PORTERVILLE, POSEY, RANDSBURG, RIDGECREST, SPRINGVILLE, STRATHMORE, TEHACHAPI, THREE RIVERS, TRONA, TULARE, AND WESTEND.
2/ 2/1961	0- 4-15.	37.45	118.63	B	5.3		F	NW OF BISHOP. FELT IN SO. MONO COUNTY, TAFT, HANFORD, AND FRESNO, AND DYER, NEVADA.
2/ 2/1961	0- 7-42.	37.42	118.67	C	5.1			AFTERSHOCK OF QUAKE AT 0004.
4/ 6/1961	4- 4-45.	40.18	124.75	C	5.1		F	OFF CAPE MENDOCINO. FELT IN HUMBOLDT COUNTY.
4/ 9/1961	7-23-16.	36.68	121.30	A	5.6		F	SOUTHEAST OF VINEYARD. FELT OVER AN AREA OF APPROXIMATELY 13,500 SQUARE MILES OF WEST-CENTRAL CALIFORNIA (FROM SAN FRANCISCO SOUTH TO KING CITY AND EAST TO MODESTO). MAXIMUM INTENSITY VII. DESIGNATED AS STRONGEST SHOCK IN THIS REGION SINCE 1906 BY MANY OLD-TIME RESIDENTS. AFTERSHOCKS OF MAGNITUDE 3.0 OR ABOVE ARE INCLUDED IN THIS LIST. A SEPARATE, MORE COMPLETE TABULATION OF AFTERSHOCKS APPEARS IN THE BULLETIN OF APRIL-JUNE 1961.
4/ 9/1961	7-25-41.	36.70	121.30	D	5.5		F	AFTERSHOCK OF QUAKE AT 0723. FELT OVER MUCH THE SAME AREA AS MAIN SHOCK.
4/29/1961	9-19-30.	40.42	127.45	C	5.5			OFF CAPE MENDOCINO.
7/ 4/1961	4-56- 0.	40.90	118.40	D	5.4		F	NORTH OF LOVELOCK, NEVADA. PROBABLE FELT AREA ON THE ORDER OF 10,000 SQUARE MILES. REPORTED FELT FROM PARADISE VALLEY IN THE NORTH TO LOVELOCK, NEVADA, TO THE SOUTHWEST. MAXIMUM REPORTED INTENSITY V. NO DAMAGE REPORTED.
7/ 4/1961	11- 9-11.	40.13	118.60	B	5.0			WEST OF LOVELOCK, NEVADA.
10/13/1961	5- 9-44.	35.83	117.77	A	5.2		F	EAST OF BROWN. FELT OVER AN AREA OF 12,000 SQUARE MILES. V AT BODFISH, CHINA LAKE, CALIENTE, CALIFORNIA HOT SPRINGS, INYOKERN, JOHNSONDALE, KERN CANYON, KERNVILLE, LITTLE LAKE, MOJAVE, ONYX, RIDGECREST, SAND CANYON, SPRINGVILLE, TEHACHAPI, TRONA, TWIN OAKS, AND WESTEND.
4/13/1962	15-38-51.9	39.22	119.45	B	5.1	21	F	NORTHEAST OF YOSEMITE. V IN BRIDGEPORT.
4/14/1962	7-53-14.7	40.27	125.32	C	5.4	23		OFF CAPE MENDOCINO.
6/ 6/1962	17-50- 6.2	39.07	123.32	B	5.2	20	F	SOUTH OF UKIAH. VII AT LAKEPORT.
7/14/1962	19-43-46.2	40.43	125.52	C	5.1	18	F	OFF CAPE MENDOCINO. V IN HUMBOLDT COUNTY.
8/23/1962	19-29-13.1	41.85	124.33	C	5.6	21	F	NORTH OF CRESCENT CITY. FELT OVER AN AREA OF 15,000 SQUARE MILES. VI AT CRESCENT CITY AND SMITH RIVER, AND BROOKINGS AND CAVE JUNCTION, OREGON. V AT BAYSIDE, CECILVILLE, EDGEWOOD, FERNDALE, FIELDS LANDING, FORT DICK, FRESHWATER, GASQUET, HAPPY CAMP, HOLMES, KLAMATH, KORBEL, ORLEANS, REQUA, AND SALYER, AND AT GRANTS PASS, HARBOR, MERLINS, PISTOL RIVER, AND SELMA, OREGON.
6/29/1963	8- 9-26.	40.33	126.81		5.0	20		OFF COAST, WEST OF FERNDALE.
9/14/1963	19-46-17.0	36.87	121.63		5.4	19	F	EAST OF WATSONVILLE. FELT OVER 5000 SQ. MI. OF WEST-CENTRAL CALIFORNIA. VII AT CHITTENDEN. VI AT AROMAS, CAPITOLA, SALINAS, SAN JOSE, AND WATSONVILLE. V AT HOLLISTER, SAN FRANCISCO, AND SANTA CRUZ. IV AT APTOS, GILROY, BIG SUR, AND LIVERMORE.
3/22/1964	16-30-55.9	38.70	118.80		5.5		F	(USCGS). FELT OVER 7500 SQ. MI. OF E. CALIF. AND W. NEV. V AT HAWTHORNE, NEV. IV AT RENO, NEV.

6/11/1964	22-18-20.	40.70	127.00	5.5	17		OFF CAPE MENDOCINO.
10/23/1964	13-57- 5.	38.70	118.10	5.3	15		E OF HAWTHORNE, NEVADA.
11/16/1964	2-46-41.7	37.06	121.69	5.0	17	F	NEAR CORRALITOS. FELT OVER CENTRAL CALIF. AFTERSHOCKS OF MAG. 2.5 OR MORE LISTED BELOW. SEE BSSA NO. 56.
9/16/1965	4-10- 8.	40.50	125.80	5.0	7		OFF CAPE MENDOCINO. USCGS MAG. 5.6.
6/28/1966	4- 8-56.2	35.97	120.50	5.1			PARKFIELD SEQUENCE. FIRST MAIN SHOCK. (FELT REPORTS FOR THE 2 MAIN SHOCKS ARE NOT SEPARATED.) FELT OVER 20,000 SQ. MI MINOR SURFACE FAULTING ALONG SAN ANDREAS FAULT FROM PARKFIELD TO CHOLAME (20 MILES), MAXIMUM DISPLACEMENT 4 IN. VII CHOLAME AND PARKFIELD. VI ANNETTE, BITTERWATER VALLEY, COALINGA, HIDDEN VALLEY RANCH, PASO ROBLES, SAN LUIS OBISPO, SAN MIGUEL, SHAFTER, SHANDON, SLACK CANYON, VALLETON, WAITI RANCH, WORK RANCH. V ADELAIDA, ALPAUGH, ARROYO GRANDE, ATASCADERO, AVILA BEACH, BAKERSFIELD, BAYWOOD PARK, BRYSON, BURREL, BUTTONWILLOW, EARLIMART, FELLOWS, FRAZIER PARK, GREENFIELD, HARMONY, INDIAN VALLEY, KETTLEMAN CITY, KING CITY, LA PANZA, LOST HILLS, MARICOPA, MEE RANCH, MORRO BAY, MOSS LANDING, MUSICK, NIPOMO, OCEANO, OLD RIVER, PANOCHE, PINE CANYON, PISMO BEACH, POZO, PRIEST VALLEY, SAN ARDO, SAN JOAQUIN, SAN LUCAS, SAN SIMEON, SIMMLER, STRATFORD, TEMPLETON, VANDENBURG A.F.B.
6/28/1966	4-26-13.4	35.95	120.50	5.5		F	PARKFIELD SEQUENCE. SECOND MAIN SHOCK.
6/29/1966	19-53-25.9	35.95	120.53	5.0		F	PARKFIELD SEQUENCE. FELT ADELAIDA, BITTERWATER, CHOLAME, COALINGA, FRESNO, MEE RANCH, MORRO BAY, SAN LUIS OBISPO, SAN MIGUEL, SANTA MARGARITA, SHANDON, WORK RANCH.
9/12/1966	16-41- 1.9	39.42	120.15	6.0	10	F	N OF TRUCKEE. FELT WIDELY IN NORTHERN CALIF., NEV. AND AS FAR EAST AS SALT LAKE CITY, UTAH. DAMAGE AT TRUCKEE, BOCO, VERDI, AND RENO. VII BOCA DAM, FARAD POWERHOUSE, FLORISTON, HIRSCHDALE, HOBART MILLS, KINGS BEACH, LOYALTON, PROSSER DAM, SIERRAVILLE, TRUCKEE, VINTON, AND LEMON VALLEY AND VERDI, NEV. VI ALTA, BAXTER, BLAIRSDEN, CALPINE, CAMINO, CAMPTONVILLE, CARNELIAN BAY, CEDAR RIDGE, CHILCOOT, DARDANELLE, DELLEKER, DOBBINS, DOYLE, EL DORADO, EMIGRANT GAP, GEORGETOWN, GLENCOE, GRAEAGLE, IOWA HILL, LITCHFIELD, LOTUS, MATHER A.F.B., MEEKS BAY, NEVADA CITY, NORDEN, NORTH BLOOMFIELD, PLACERVILLE, PORTOLA, SACRAMENTO, SATTLEY, SHINGLE SPRINGS, SODA SPRINGS, TAHOE CITY, TAHOE VISTA, TAHOMA, WALNUT GROVE, WASHINGTON, WILSEYVILLE, AND CARSON CITY, CRYSTAL BAY, FERNLEY, MINDEN, PANTHER VALLEY, RENO, SPARKS, STATELINE, AND STEWART, NEV.
9/12/1966	17-20-11	39.42	120.15	5.3		F	TRUCKEE SEQUENCE. V TAHOE CITY.
12/10/1967	12- 6-52.2	40.50	124.70	5.6	6	F	OFF SHORE CAPE MENDOCINO. MAIN SHOCK FELT OVER AN AREA OF APPROX. 6,000 SQ. MILES, PRINCIPALLY IN HUMBOLDT COUNTY. CHIMNEY TWISTED AT CRANNELL. CHIMNEY CRACKED AT DENNY. VI AT FERNDALE. V AT ARCATA, BAYSIDE, BIG BAR, BLUE LAKE, BRIDGEVILLE,BURNT RANCH, CRANNELL, CUTTEN, DENNY, DOUGLAS CITY, EUREKA, FIELDS LANDING, FORTUNA, FRESHWATER, HONEYDEW, HOOPA, ISLAND MOUNTAIN, KNEELAND, KORBEL, LOLETA, ORICK, PETROLIA, RIO DELL, SALYER, SCOTIA, SHELTER COVE, WHITEHORN.
12/18/1967	17-24-32.0	37.00	121.78	5.3	17	F	N OF WATSONVILLE. MINOR DAMAGE. VI AT APTOS, CASTROVILLE CORRALITOS, COYOTE, FREEDOM, GILROY, LA SELVA BEACH, MORGAN HILL, SAN MARTIN,SANTA CRUZ, WATSONVILLE. V AT ALVISO, BEN LOMOND, BURLINGAME, CAPITOLA, CARMEL, CHITTENDEN, CUPERTINO, DALY CITY, COLMA, FELTON, HARRIS RANCH, HOLLISTER,HOLY CITY, LOS GATOS, MILLBRAE, MONTEREY, MOSS LANDING, NEW ALMADEN NOVATO, PACIFICA, PACIFIC GROVE, PALO ALTO, RICHMOND, SALINA, SAN BRUNO, SAN FRANCISCO,SAN GREGORIO, SAN JOSE, SANTA CLARA, SARATOGA, SOQUEL AND SUNNYVALE.
6/26/1968	1-42-20.8	40.23	124.27	5.9	6		OFF CAPE MENDOCINO.
10/ 2/1969	4-56-46.5	38.47	122.69	5.6		F	SANTA ROSA. FELT THROUGHOUT THE SAN FRANCISCO BAY REGION. POWER OUT, WATER MAINS BROKEN. SEVERAL INJURIES. PROPERTY.

							DAMAGE FROM THIS AND SUBSEQUENT SHOCKS IN THE MILLIONS OF DOLLARS (MCEVILLY ET AL., "THE SANTA ROSA EARTHQUAKES OF OCTOBER, 1969," MINERAL INFORMATION SERVICE, CALIFORNIA DIVISION OF MINES AND GEOLOGY, 23, NUMBER 3, MARCH 1970, P.44).
10/ 2/1969	6-19-57.1	38.46	122.69	5.7		F	SANTA ROSA. FELT THROUGHOUT THE SAN FRANCISCO BAY AREA (MCEVILLY, 1970, LOC. CIT.).
9/13/1970	21-10-21.	40.13	125.08	5.4	9	F	MENDOCINO ESCARPMENT. INTENSITY V AT FERNDALE, FORT SEWARD, RIO DELL AREA, AND SCOTIA.
10/27/1970	2-37-58.	40.40	127.00	5.1			GORDA RIDGE (NATIONAL OCEAN SURVEY).
2/27/1971	-0-31-37.7	40.27	124.83	5.2	9	F	MENDOCINO ESCARPMENT. FELT FROM N OF EUREKA TO FORT BRAGG AREA. MAX. INTENSITY V. NO DAMAGE REPORTED. FELT BY MANY AT EUREKA, AT FERNDALE VEHICLES ROCKED AND UTILITY POLES SWAYED, THREE WINDOWS CRACKED. FELT BY ALL AT SHELTER COVE, SMALL OBJECTS SHIFTED. NEAR SCOTIA MAN HAD DIFFICULTY KEEPING BALANCE. SMALL OBJECTS SHIFTED AT RIO DELL
2/24/1972	15-56-51.3	36.59	121.20	5.1	6		SE OF HOLLISTER. SLIGHT DAMAGE IN THE BEAR VALLEY AND MELENDY RANCH AREAS. FELT IN SAN LUIS OBISPO, FRESNO AND MADERA COUNTIES. ALSO FELT IN THE SAN FRANCISCO BAY AREA. MAXIMUM INTENSITY IV.
7/ 1/1972	9-28-42.0	40.67	125.25	5.2	5		NW OF CAPE MENDOCINO. INTENSITY V AT FERNDALE, HONEYDEW, AND RIO DELL. INTENSITY IV AT ARCATA, EUREKA, AND PETROLIA, I-III AT BLUE LAKE, FORT BRAGG, AND TRINIDAD. AFTERSHOCKS AT (09:40), (10:01), AND (10:56) WITH M= 3.0.

VIII. LIST OF EARTHQUAKES M ≥ 6.0, NORTHERN CALIFORNIA

1910 - 1972

Map No.	Date	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	Location
-	08/05/1910	01-31-36	42°00	127°00	6.8	West of Crescent City
1	07/01/1911	22-00-00	37°25	121°75	6.6	San Jose area
-	05/06/1915	12-09-00	39°50	126°50	6.8	SW of Eureka
2	12/31/1915	12-20-00	41°00	126°00	6.5	W of Eureka
3	07/15/1918	00-23-00	41°00	125°00	6.5	SW of Eureka
2	01/26/1922	09-31-30	41°00	126°00	6.0	W of Eureka
4	01/31/1922	13-17-22	41°00	125°50	7.3	W of Eureka
5	03/10/1922	11-21-20	35°75	120°25	6.5	Cholame Valley
6	01/22/1923	09-04-18	40°50	124°50	7.2	NW of Eureka
7	06/04/1925	12-02-52	41°50	125°00	6.0	NW of Eureka
8	10/22/1926	12-35-07	36°61	122°35	6.1	Monterey Bay area
9	10/22/1926	13-35-22	36°57	122°18	6.1	Monterey Bay area
10	12/10/1926	08-38-53	40°75	126°00	6.0	W of Eureka
11	09/18/1927	02-07-07	37°50	118°75	6.0	NW of Bishop
12	06/06/1932	08-44-22	40°75	124°50	6.4	W of Eureka
13	12/21/1932	06-10-05	38°75	118°00	7.2	S of Austin, Nevada
14	06/25/1933	20-45-27	39°08	119°33	6.1	Yerington, Nevada
15	01/30/1934	20-16-31	38°28	118°36	6.3	SE of Hawthorne, Nevada
16	06/08/1934	04-47-00	35°80	120°33	6.0	Cholame Valley
17	02/09/1941	09-44-42	40°70	125°40	6.4	W of Eureka
-	05/13/1941	16-01-54	40°30	126°40	6.0	W of Eureka
18	09/14/1941	16-43-32	37°57	118°73	6.0	Owens Valley
18	09/14/1941	18-39-12	37°57	118°73	6.0	Owens Valley
19	10/03/1941	16-13-08	40°40	124°80	6.4	SW of Eureka
-	05/19/1945	15-17-00	40°40	126°90	6.0	W of Eureka
-	09/28/1945	22-24-05	41°90	126°70	6.0	W of Eureka
20	12/29/1948	12-53-28	39°55	120°08	6.0	Near Verdi, Nevada
-	03/25/1949	04-56-48	42°00	126°50	6.2	West of Crescent City

Map No.	Date	Origin Time (G.C.T.)	Latitude North	Longitude West	Magnitude	Location
21	11/22/1952	07-46-37	35°.73	121°.20	6.0	San Simeon area
22	07/06/1954	11-13-20	39°.42	118°.53	6.8	Fallon, Nevada
23	07/06/1954	22-07-41	39°.30	118°.50	6.0	Fallon, Nevada
24	08/24/1954	05-51-32	39°.58	118°.45	6.8	Fallon, Nevada
25	11/25/1954	11-16-35	40°.27	125°.63	6.1	W of Ferndale
26	12/16/1954	11-07-13	39°.32	118°.20	7.2	SE of Fallon, Nevada
27	12/16/1954	11-11-29	39°.50	118°.00	7.1	E of Fallon, Nevada
28	12/21/1954	19-56-49	40°.78	123°.87	6.5	Eureka area
29	10/11/1956	16-48-50	40°.67	125°.77	6.0	W of Ferndale
30	03/23/1959	07-10-20	39°.60	118°.02	6.3	Dixie Valley Nevada
31	06/23/1959	14-35-00	39°.08	118°.82	6.1	E of Yerington, Nevada
-	08/09/1960	07-39-18	40°.32	127°.07	6.2	W of Eureka
32	09/12/1966	16-41-02	39°.42	120°.15	6.0	Truckee area

IX. MODIFIED MERCALLI INTENSITY SCALE OF 1931
(Abridged)

I. Not felt except by a very few under especially favorable circumstances.

II. Felt only by a few persons at rest, especially on upper floors of buildings. Delicately suspended objects may swing.

III. Felt quite noticeably indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibration like passing of truck. Duration estimated.

IV. During the day felt indoors by many, outdoors by few. At night some awakened. Dishes, windows, doors disturbed; walls made cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.

V. Felt by nearly everyone; many awakened. Some dishes, windows, etc., broken; a few instances of cracked plaster; unstable objects overturned. Disturbance of trees, poles and other tall objects sometimes noticed. Pendulum clocks may stop.

VI. Felt by all; many frightened and run outdoors. Some heavy furniture moved; a few instances of fallen plaster or damaged chimneys. Damage slight.

VII. Everybody runs outdoors. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable in poorly built or badly designed structures; some chimneys broken. Noticed by persons driving motor cars.

VIII. Damage slight in specially designed structures; considerable in ordinary substantial buildings with partial collapse; great in poorly built structures. Panel walls thrown out of frame structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. Disturbed persons driving motor cars.

IX. Damage considerable in specially designed structures; well designed frame structures thrown out of plumb; great in substantial buildings, with partial collapse. Buildings shifted off foundations. Ground cracked conspicuously. Underground pipes broken.

X. Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations; ground badly cracked. Rails bent. Landslides considerable from river banks and steep slopes. Shifted sand and mud. Water splashed (slopped) over banks.

XI. Few, if any (masonry), structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipe lines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.

XII. Damage total. Waves seen on ground surfaces. Lines of sight and level distorted. Objects thrown upward into the air.

X. ACKNOWLEDGMENTS AND REFERENCES

The preparation of this catalogue is a small contribution compared with those of the many seismologists, a majority of whom were graduate students at the time, who made the original readings of phases from seismograms, calculated the earthquake locations and magnitudes, and wrote the original Bulletins.

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