

MAGNITUDE 5.0 AND GREATER EARTHQUAKES

Earthquake No.	Date	Time (Universal Time Coordinated)	Latitude (N)	Longitude (W)	Depth (km)	Magnitude (Richter Scale)
1	28 Nov 1974	23:01:24.56	36.9202	121.4663	6.11	5.37
2	6 Aug 1979	17:05:22.91	37.1042	121.5127	8.93	5.80
3	24 Jan 1980	19:00:08.63	37.8367	121.7708	14.72	5.23
4	24 Jan 1980	19:01:01.53	37.8115	121.7772	7.07	5.10
5	27 Jan 1980	02:33:35.32	37.7493	121.7062	14.69	5.18
6	23 Jan 1984	05:40:19.93	36.3650	121.8878	8.19	5.12
7	24 Apr 1984	21:15:18.75	37.3095	121.6767	8.74	5.82
8	26 Jan 1986	19:20:50.93	36.8040	121.2847	8.72	5.50
9	31 Mar 1986	11:55:39.80	37.4788	121.6858	9.17	5.70
10	20 Feb 1988	08:39:57.24	36.7957	121.3117	9.62	5.03
11	13 June 1988	01:45:36.52	37.3923	121.7415	9.71	5.30
12	27 June 1988	18:43:22.32	37.2685	121.8962	13.15	5.30
13	6 Aug 1989	08:13:27.36	37.1458	121.9282	14.23	5.40
14	16 Oct 1989	00:04:15.20	37.0362	121.8802	17.29	7.00
15	18 Oct 1989	00:41:23.70	37.1873	122.0548	16.78	5.10
16	18 Apr 1990	13:53:51.30	36.9320	121.6577	5.68	5.75
17	18 Apr 1990	15:46:03.44	36.9583	121.6848	6.67	5.36
18	15 Jan 1993	06:29:35.00	37.0122	121.4630	7.90	5.10
19	11 Aug 1993	22:33:04.00	37.3120	121.6793	9.35	5.00
20	23 Apr 1995	08:41:36.63	36.6025	121.2015	7.84	5.14
21	12 Aug 1998	14:10:25.12	36.7533	121.4622	9.13	5.35
22	3 Sept 2000	08:36:30.09	38.3788	122.4127	10.12	5.17

EXPLANATION

EARTHQUAKES (MAGNITUDE (RITCHER))

- 1.5 - 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0

BATHYMETRY

Sea level

8,650 Meters

FAULTS - Dashed where approximately located; dotted where inferred

- Active in last 700,000 years
- Active prior to 700,000 years ago

Bathymetry generated from a digital version of National Oceanic and Atmospheric Administration (NOAA) maps (Chin and others, 2001) and hydrographic data for San Francisco Bay (NOAA, 1995).

Elevation data from U.S. Geological Survey National Elevation Database (1 arc-second); sun illumination from the northeast (31° lat/67° above horizon).

Landfill satellite image from seven Landsat 7 Enhanced Thematic Mapper Plus scenes collected between 1999-2001. Individual Landsat scenes processed by the U.S. Geological Survey Earth Resource Observation Systems (EROS) Data Center, Sioux Falls, South Dakota, using the National Land Archive Production System (NLAPS).

Fault data reproduced with permission, California Geological Survey, CD-ROM 2000-006 (2000). Digital database of faults from the fault activity map of California and adjacent areas.

Earthquake data from the Northern California Earthquake Catalog (1970-2003).

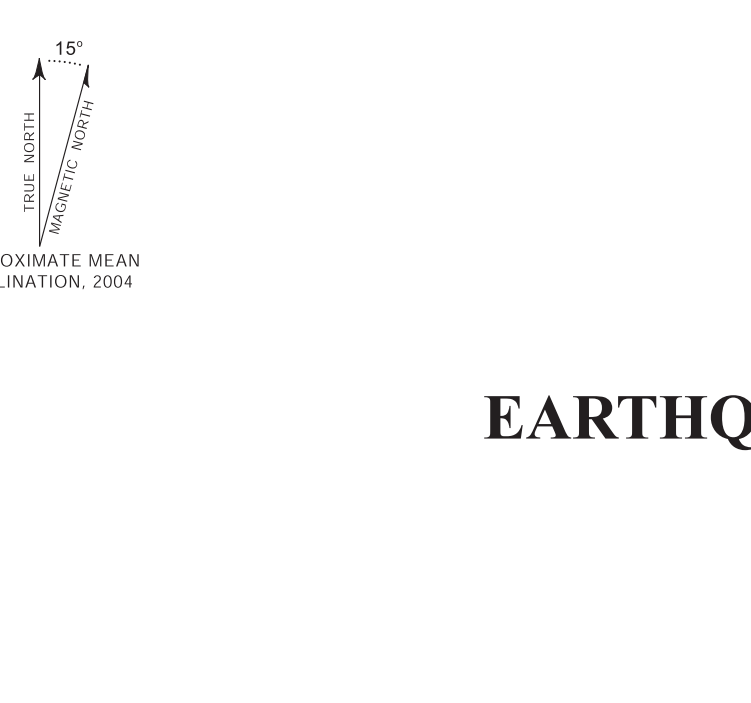
Universal Transverse Mercator Projection, Zone 10 North

REFERENCES

Chin, John, McHendrie, Greg, Madison, Carol, and Wong, Florence L., 2001, CALBATIC: bathymetry contours for the central California region between Point Arena and Point Stout, in Wong, F.L., and Editors, S.E., compilers, Continental Shelf GIS for the Monterey Bay National Marine Sanctuary, U.S. Geological Survey Open-File Report 01-170 (available on the World Wide Web at <http://pubs.usgs.gov/ofr/01-170/>).

National Oceanic and Atmospheric Administration, 1995, San Francisco Bay digital hydrographic data, National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office of Coast Survey and Office of Ocean Resources Conservation and Assessment, Seattle, Washington. [Current version available from NOAA at <http://www.ngds.noaa.gov/ngds03mgp03.html>].

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EARTHQUAKES AND FAULTS IN THE SAN FRANCISCO BAY AREA (1970 - 2003)

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Landfill satellite image compiled by Benjamin M. Sleeter, U.S. Geological Survey, Menlo Park

Bathymetry data compiled from a digital version of NOAA map sheets (Chin and others, 2001) by Florence Wong, U.S. Geological Survey, Menlo Park

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