



Map of Earthquake Epicenters in the San Francisco Bay area, California: 1972-1989

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This map includes the earthquake epicenters displayed (in yellow symbols) in the USGS 1990 poster: "San Francisco Bay Area Earthquakes". The compiled epicenters were recorded and processed by the USGS Central California Seismic Network (CALNET) and located with the computer program HYPOINVERSE (Klein, 1989). The dataset includes 12034 well-located earthquakes in the area bounded by 36°20'N - 39°00'N latitude and 120°45'W - 123°15'W longitude with $M \geq 2.0$ between Jan. 1, 1972 and Dec. 31, 1989. Only events located with at least ten seismographic stations and with root-mean-square (rms) travelt ime residuals of less than 0.3 second were included in the dataset. Events that were likely quarry blasts in the area were excluded.

Since this map was prepared specifically to overlay the satellite imagery used in the poster, the map scale and projection are unconventional: the map scale is 1:289,834 and the projection is an approximation to simple conic.

Reference

Klein, F.W., User's guide to HYPOINVERSE, a program for VAX computers to solve earthquake locations, *U.S. Geological Survey, Open-File Report 89-314*, 58 pp., 1989.

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