

GEOLOGY OF THE MONTEREY BAY REGION, CALIFORNIA

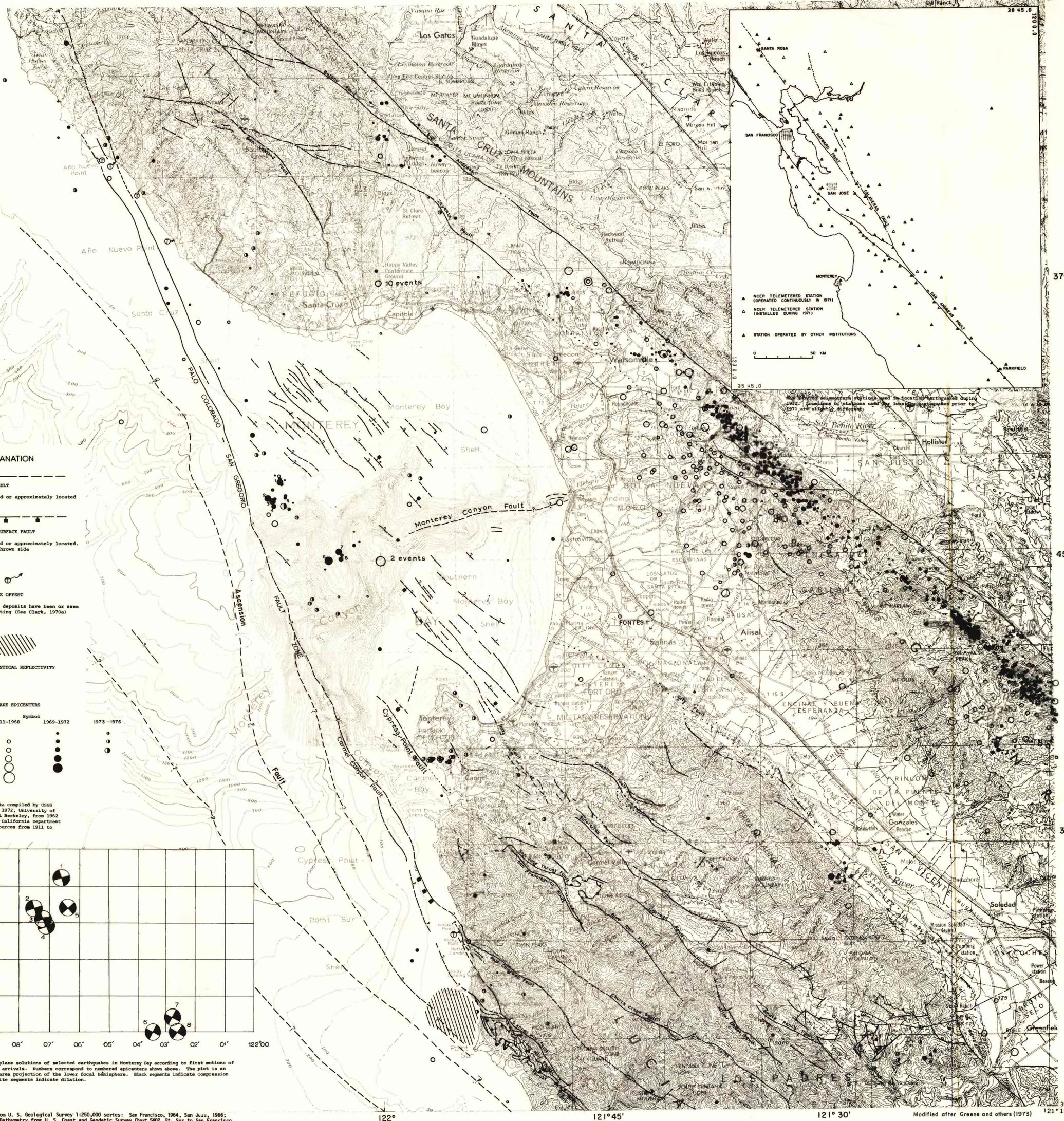
121° 15'

37°

45'

30'

36° 15'



**EXPLANATION**

**FAULT**  
Dashed where inferred or approximately located

**OFFSHORE SURFACE FAULT**  
Dashed where inferred or approximately located. Bar and box on downthrow side

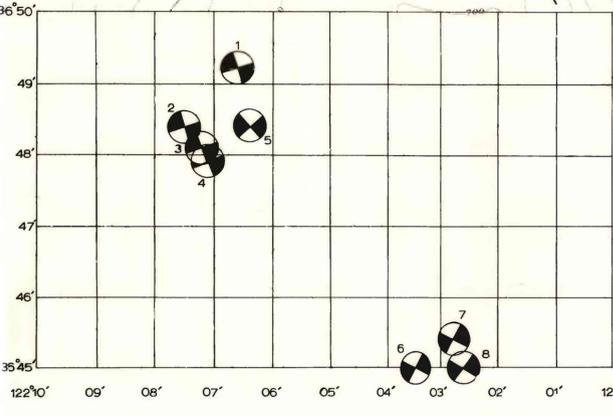
**TERRACE OFFSET**  
Places where terrace deposits have been or seem to be offset by faulting (See Clark, 1970a)

**ZONE OF POOR ACOUSTICAL REFLECTIVITY**

**EARTHQUAKE EPICENTERS**

Magnitude	Symbol	1911-1968	1969-1972	1973-1976
<1.5	Small circle	Small circle	Small circle	Small circle
1.5-2.5	Medium circle	Medium circle	Medium circle	Medium circle
2.5-3.5	Large circle	Large circle	Large circle	Large circle
3.5-4.5	Very large circle	Very large circle	Very large circle	Very large circle
4.5-5.5	Large circle with dot			
>5.5	Very large circle with dot			

Epicenter data compiled by USGS from 1969 to 1972, University of California at Berkeley, from 1962 to 1968, and California Department of Water Resources from 1911 to 1961.



Fault plane solutions of selected earthquakes in Monterey Bay according to first motions of P-wave arrivals. Numbers correspond to numbered epicenters shown above. The plot is an equal area projection of the lower focal hemisphere. Black segments indicate compression and white segments indicate dilation.

Topographic base from U. S. Geological Survey 1:250,000 series: San Francisco, 1964, San Jose, 1966; Santa Cruz, 1956. Bathymetry from U. S. Coast and Geodetic Survey Chart 5402, Pt. Sur to San Francisco, California. Detailed bathymetry of Monterey Bay constructed from soundings made by the USGS, 1967.

FAULTS AND EARTHQUAKE EPICENTERS IN THE MONTEREY BAY REGION, CALIFORNIA

By  
H. Gary Greene

SCALE 1:200,000

1977

0 2 4 NAUTICAL MILES

0 2 4 6 KILOMETERS

Onland contour interval - 200 feet (60 meters)  
Offshore contour interval - 100 fathoms (600 feet or 183 meters)  
Contour interval of the detailed Monterey Bay area - 10 meters to a depth of 100 meters  
- 50 meters at depths greater than 100 meters

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.