

EXPLANATION

INTRODUCTION
This map portrays what is known about the time of latest movement along each mapped fault. Faults are shown by line symbols for location. Symbols superimposed on the fault traces indicate known late Cenozoic stratigraphic or geomorphic evidence that brackets the age of the most recent movement for each fault. A fault is placed in one of seven age classes, shown by letter symbol or date, that most closely restricts the age of its latest movement.

MAP SYMBOLS

LINE SYMBOLS

Onshore fault
Queried where connection, continuation, or existence is uncertain; dotted where inferred beneath covering deposits or water. Star indicates fault with relatively young movement along it but fault trace too short to show at map scale. Short dashes indicate photo lineaments inferred to be faults.

Offshore fault

Inferred from subbottom acoustic-reflection profiles. Location approximate.

GEOLOGIC CONTROL SYMBOLS

Indicate location and age of late Cenozoic geologic features that place one or more limits on the age of latest movement for each fault. Numbers within the symbols indicate the age of each geologic control as based on the generalized time spans of the age-range chart; the youngest reasonable age is assumed for deposits whose age is uncertain.

- Oldest known unfaulted stratigraphic unit that is deposited across the fault. Age of unit provides minimum limit on age of latest movement.
- Youngest known stratigraphic unit displaced by fault. Age of unit provides maximum limit on age of latest movement.
- Fault-produced geomorphic feature. Age of feature provides maximum limit on age of latest movement.

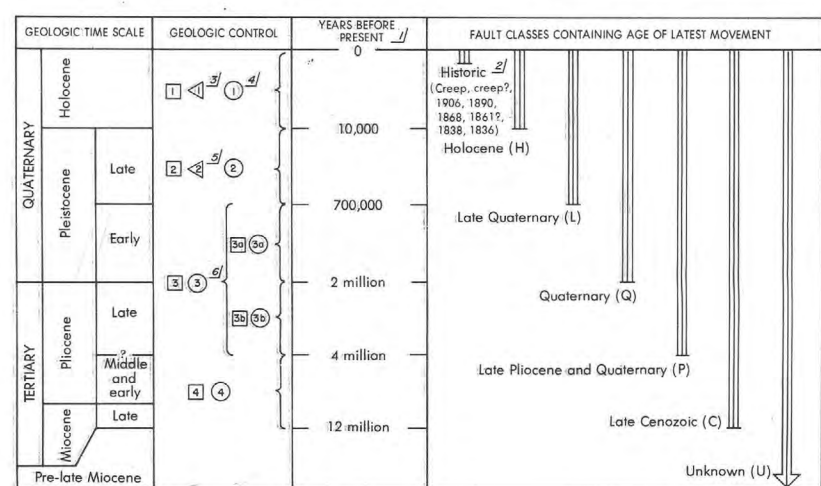
AGE CLASS SYMBOLS

Each fault is placed in an age class according to the time span containing evidence of its latest known movement and, except for historic faulting, is so designated by a letter symbol. A fault is assigned to one of seven age classes chiefly from the youngest known late Cenozoic stratigraphic or geomorphic evidence of faulting preserved along it. Faults lacking evidence of late Cenozoic movement either are designated "unknown" or are assigned to another class on the basis of geometric and spatial relations to a fault whose history is better understood. The entire length of a fault is assigned to a single age class unless contrary evidence is available.

Class	Symbol
Historic	CREEP, CREEP?, 1906, 1890, 1868, 1867?, 1838, 1836
Holocene	H
Late Quaternary	L
Quaternary	Q
Late Pliocene and Quaternary	P
Late Cenozoic	C
Unknown	U, Um

Each age class encloses progressively longer spans of time within which movement may have occurred (see chart). The time span containing the latest movement may be restricted further by unfaulted overlying deposits indicated on the map by minimum geologic symbols. Faults classed as unknown (U) could have moved as recently as those of any other age class, except for those faults of unknown age with minimum age control (Um).

AGE RANGE CHART OF GEOLOGIC CONTROLS AND AGE CLASSES



GEOLOGIC UNITS

(onshore areas only)

- Chiefly bedrock at or near ground surface
- Chiefly alluvial or terrace deposits generally more than 15 m thick

EXAMPLES OF AGE CLASSIFICATION AND LIMITING GEOLOGIC CONTROL

Fault is classed as late Pliocene and Quaternary (P), indicating that its most recent movement occurred within the past 4 million years. Faulted marine strata of late Pliocene age (about 2 million to 4 million years) are present (square with numeral 3b) but minimum age control is lacking.

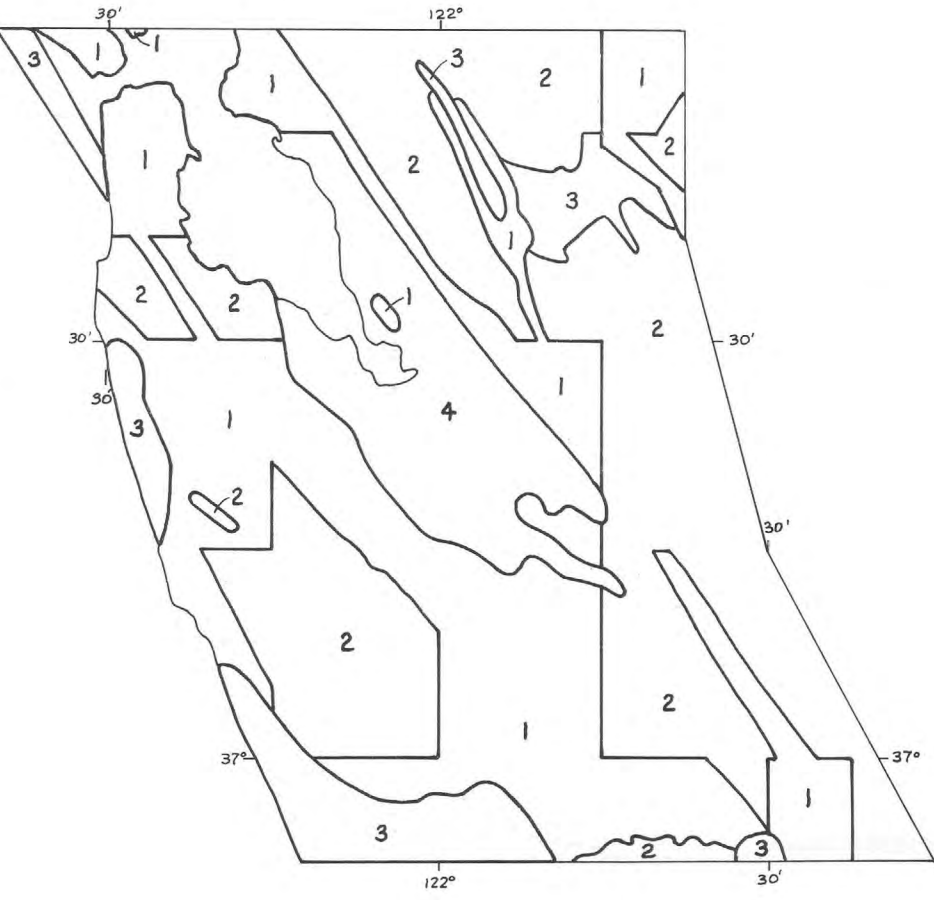
Fault is classed as Quaternary (Q). Faulted marine deposits of early Pleistocene age (about 2 million to 700,000 years) are present (square with numeral 3a) to provide a maximum limit on the most recent movement. Unfaulted deposits with an age between about 700,000 and 10,000 years (circle with numeral 2) constitute a minimum limit on latest movement.

Fault is classed as unknown (U) because no faulted late Cenozoic deposits are preserved along it. A minimum limit on age of movement is lacking.

Fault is classed as unknown with minimum limit on age of latest movement (Um). No faulted late Cenozoic deposits are preserved along it, but the latest movement predates unfaulted early Pleistocene marine strata between about 2 million and 700,000 years old (circle with numeral 3a).

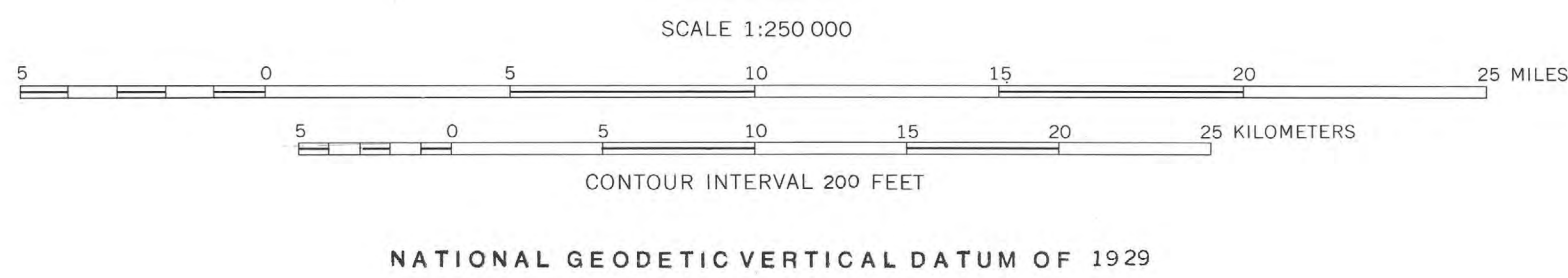
Fault is classed as late Quaternary (L). Maximum age control is provided both by fault-produced geomorphic feature (triangle with numeral 2) and by faulted rocks (square with numeral 2) with an age between about 700,000 and 10,000 years. Minimum geologic control on the age of the most recent faulting is lacking.

Segments of fault are assigned to different age classes. Segment classed as Holocene (H) is known to displace deposits younger than 10,000 years (square with numeral 1). Other segment displaces rocks between about 12 million and 4 million years old (square with numeral 3) but is limited by unfaulted deposits from about 700,000 to 10,000 years old (circle with numeral 2), and thus is classed as late Cenozoic (C).



INDEX MAP OF MAJOR FAULTS - SHEET 2

DECLINATION AT CENTER OF MAP



NATIONAL GEODETIC VERTICAL DATUM OF 1929

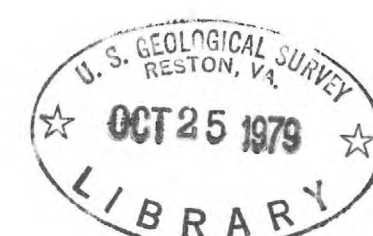
Base prepared by U. S. Geological Survey
for Association of Bay Area Governments, 1969

PRELIMINARY MAP SHOWING REGENCY OF FAULTING IN COASTAL NORTH-CENTRAL CALIFORNIA

By
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1979

Geology compiled 1975-1978



M(200)
MF 1070
Sheet 2