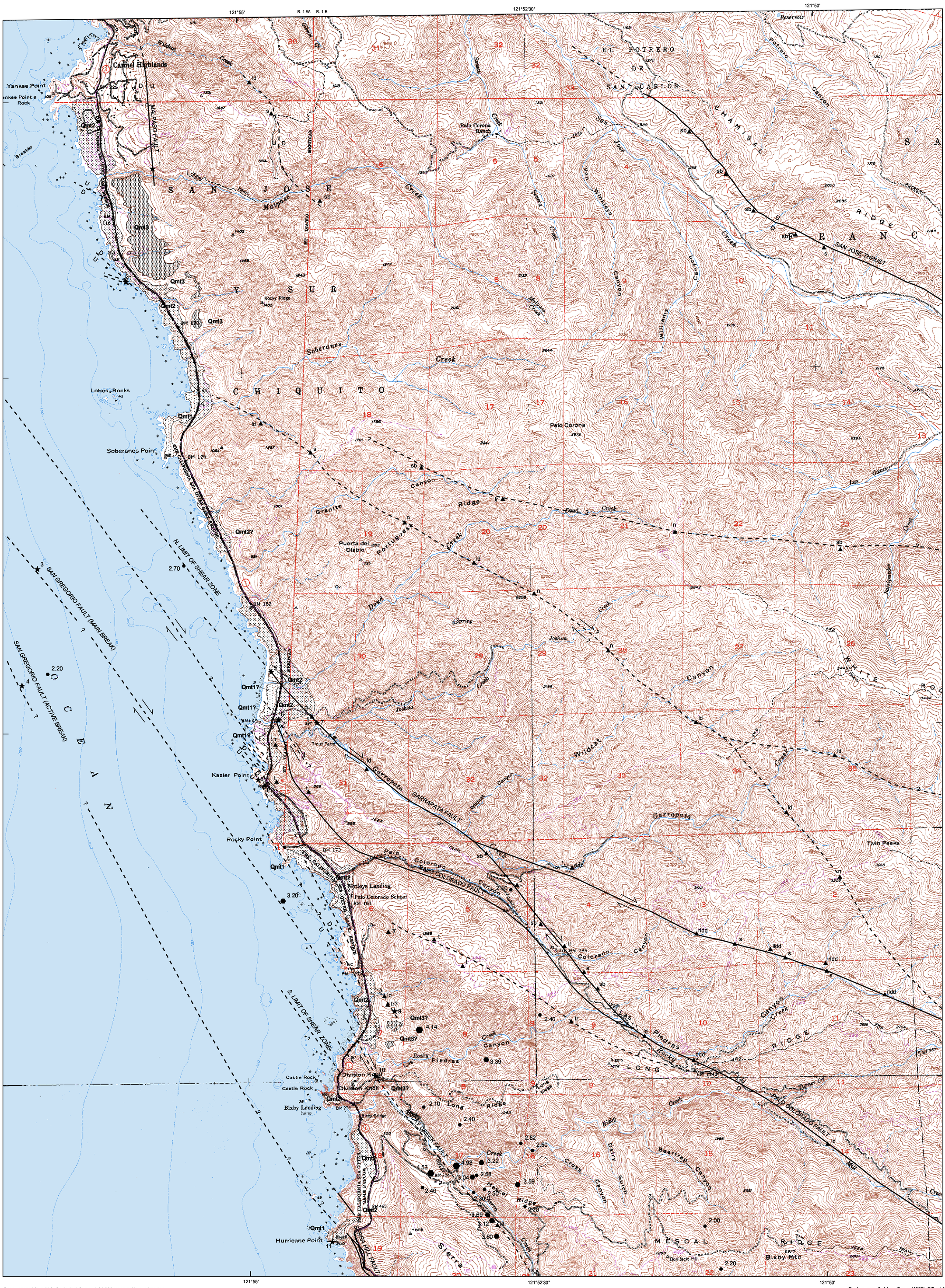

Base scanned from U.S. Geological Survey 1:24,000 topographic quadrangles Big Sur, Mt. Carmel, Point Sur, Soberanes Point, 1983

Map converted to Albers projection after scanning, reprojected to UTM, zone 10

SCALE 1:24000

0 — 0.5 — 1 MILE

0 — 1000 — 2000 — 3000 — 4000 FEET

0 — 0.5 — 1 KILOMETER

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES IN FEET—DATUM IS MEAN LOW WATER

SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE APPROXIMATE RANGE OF TIDES IS APPROXIMATELY 4 FEET

N

CALIF

MAP LOCATION

Geology compiled from Brown (1962), Gilbert (1971), Greene (1972), Phifer (1972), Dibblee (1973), Bryant (1985), and Tuttle (1985) with modifications from fieldwork by Clark and Rosenberg (1998)

INDEX TO USGS 7.5-MINUTE QUADRANGLES

SOBERANES POINT | MT. CARMEL
POINT SUR | BIG SUR

DESCRIPTION OF MAP UNITS

Qmt1 — **Marine terrace 1 (late Pleistocene)** —Correlative with the 102 ka "Ocean View" terrace of Dupré (1990) and the 100 ka "terrace 1" of McKittrick (1988)

Qmt2 — **Marine terrace 2 (late Pleistocene)** —Correlative with the 124 ka "Lighthouse" terrace of Dupré (1990) and the 120 ka "terrace 2" of McKittrick (1988)

Qmt3 — **Marine terrace 3 (middle Pleistocene)**—Correlative with the 415 ka "Silvan" terrace of Dupré (1990) and the 330 ka "terrace 3" of McKittrick (1988)

EXPLANATION OF MAP SYMBOLS

Contact, approximately located

U/D — **Fault, well-defined**—relative vertical displacement indicated by U/D, relative lateral displacement indicated by half arrows.

U/D — **Fault, approximately located**—relative vertical displacement indicated by U/D, relative lateral displacement indicated by half arrows, queried where existence uncertain

Fault, concealed

Spring

★1 — **Quaternary deformation locality**—described in appendix 1 of accompanying report

cd — **Geomorphic feature indicating fault location or recency of movement**—dd, deflected drainage (rl, right-lateral; ll, left-lateral); ld, linear drainage; lr, linear ridge; n, notch; s, saddle; sb, sidehill bench; t, tonal lineament; tr, trough

2.0–2.9 / 3.0–3.9 / 4.0–4.9 — **Earthquake epicenter with fault-plane solution**—events recorded by the UCB/USGS Northern California Earthquake Data Center for period of 1967–1999. Size of symbol and number indicate magnitude. See appendix 2 of accompanying report for focal plane solutions

FAULT MAP—BIG SUR STUDY AREA, MONTEREY COUNTY, CALIFORNIA

SOUTHERN SAN GREGORIO FAULT DISPLACEMENT: STEPOVER SEGMENTATION VS. THROUGH-GOING TECTONICS

By

Joseph C. Clark and Lewis I. Rosenberg

1999

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