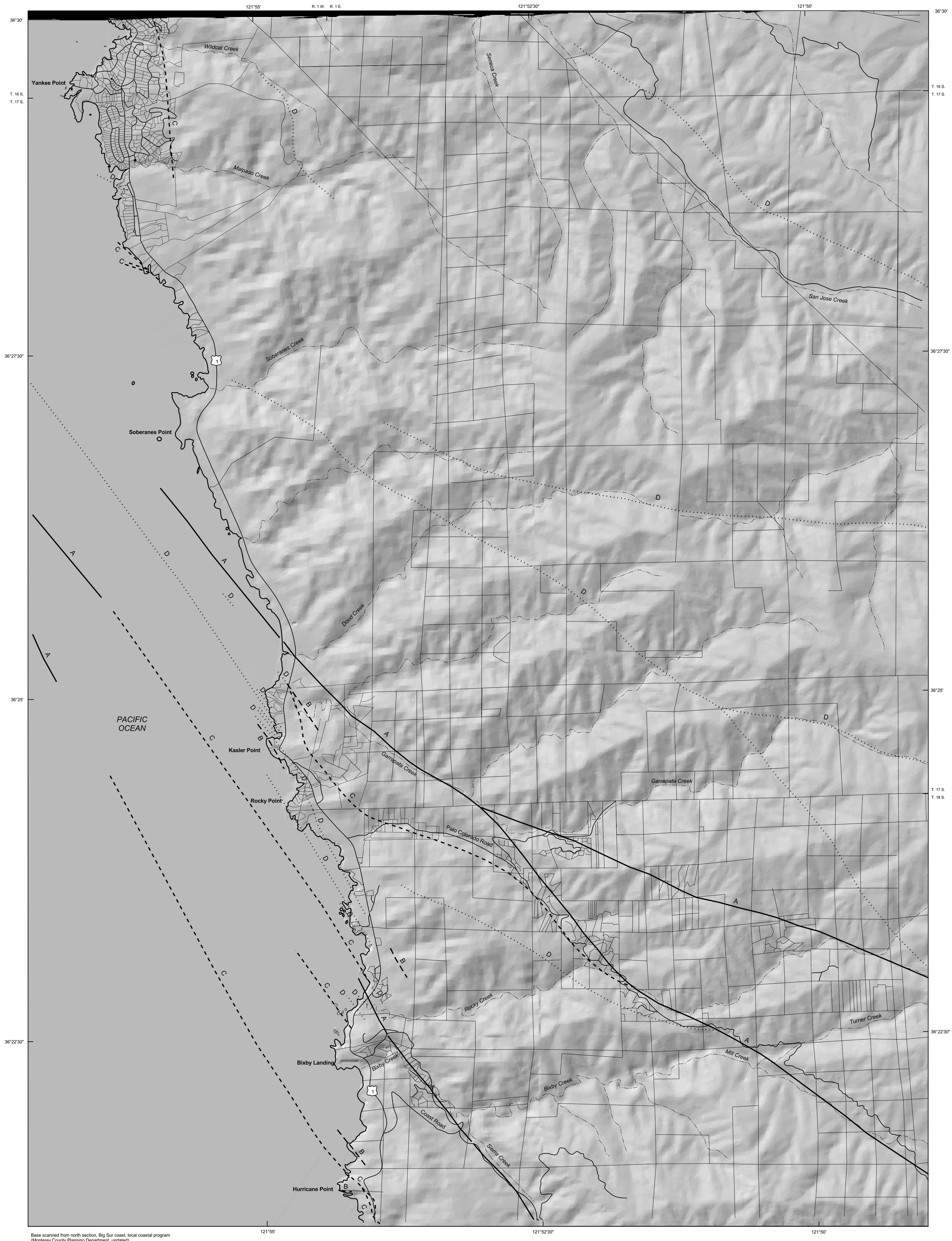


Base scanned from north section, Big Sur coast, local coastal program (Monterey County Planning Department, undated)

Base converted to vector format after scanning and reprojected to UTM, zone 10. Shaded relief background from U.S. Geological Survey 7.5-minute DEM.

N

SCALE 1:24000

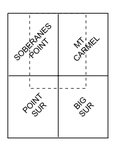
0 0.5 1 MILE

0 1000 2000 3000 4000 FEET

0 0.5 1 KILOMETER

MAP LOCATION

INDEX TO USGS 7.5-MINUTE QUADRANGLES



The purpose of this map is to rank the relative activity of faults in the study area. These relative rankings can be used to produce derivative assessments of earthquake hazards such as ground rupture, amplified ground shaking, liquefaction, and slope instability.

To understand the assumptions and limitations of this map, refer to the accompanying map (plate 1) and text. Fault locations on this map are transferred from plate 1. Because of inaccuracies in the cadastral base map, the locations of roads, streams, and property boundaries should be considered approximate.

This map is not a substitute for the official Earthquake Fault Zone maps delineated by the California State Geologist (see Hart and Bryant, 1997).

This map is not intended as a substitute for site-specific studies. Appropriate site-specific studies should be performed to fully evaluate the potential hazards at a site.

The hazard zones are based on the estimated most recent time of movement using the following criteria:

Zone A: Holocene (younger than 11,000 years before present)—Fault offsets seafloor sediments or Holocene deposits as dated by radiocarbon methods; delineated by well-developed geomorphic features such as deflected stream channels, linear drainages, saddles, notches, and troughs; aligned with historic seismicity recorded by the UCB/USGS Northern California Earthquake Data Center

Zone B: Late Quaternary (750,000 to 11,000 years before present)—Fault cuts middle Pleistocene or younger deposits. Marine terrace age estimates based on correlations by McKittrick (1988)

Zone C: Undivided Quaternary (less than 1,600,000 years before present)—Offset of Quaternary deposits not otherwise determined to be younger than middle Pleistocene

Zone D: Pre-Quaternary (older than 1,600,000 years before present)—Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.

EXPLANATION OF MAP SYMBOLS

- **Zone A—Greatest relative hazard**
- **Zone B**
- **Zone C**
- **Zone D—Least relative hazard**
- **Property boundary**
- **Stream**

RELATIVE FAULT HAZARD 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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