

A Marine Geologic Map Series of California

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A comprehensive geologic map series covering the California continental margin is currently in preparation as a collaborative effort between the State of California Division of Mines and Geology, the State of California Coastal Commission, and the United States Geological Survey. Geologic, geophysical, and seismological data are portrayed at a scale of 1:250,000 on NOS bathymetric base maps for the

purpose of defining regional stratigraphy, structural patterns, tectonic history, and historic seismicity. Individual subject data sets are being compiled from existing literatures as well as from current research activities. The map series consists of composite overlays depicting surficial and bedrock geology, character and recency of faulting, regional geologic structure, locations of historical earthquakes, well-defined focal mechanisms, gross regional Bouguer gravity, and regional magnetic anomalies.

The geologic information is derived in large part from subbottom seismic reflection profiles and to a lesser degree from core and dredge samples. The explanation of the geologic mapping is accompanied by interpretive line drawings constructed on actual seismic profiles. Each profile illustrates and defines, using symbols standardized for this project, specific geologic features shown on the map.

The purpose of this new marine geologic map series is to acquire and compile in a standard format all available geologic data along the California coastal zone. Although a considerable amount of geologic data exist for the California offshore, heretofore no attempt has been made to compile and present these data at a common scale using standardized symbology. The compilation phase of this study is scheduled to continue through 1983. Contributions by individuals can be made, with credit assigned, up to mid-1983.
