DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-854

BATHYMETRIC BASE NOT AVAILABLE WEST OF 125°10' WEST LATITUDE

EXPLANATION

This map is a compilation of free-air gravity anomaly data overlain on a bathymetric base. It is released as a part of the U.S. Geological Survey's program on the Outer Continental Shelf.

Free-air gravity anomalies were calculated using the 1930 International Gravity Formula.

-20 GRAVITY CONTOUR--Contour interval 10 milligals. Hachures indicate closed area of lower values

2000 BATHYMETRIC CONTOUR--Contour interval 10 m to 200 m depth; 50 m to maximum depth

TRACKLINE

ISOLATED GRAVITY VALUE

SOURCES OF DATA

Defence Mapping Agency, St. Louis, Missouri: Declassified gravity data on the west coast through 1973.

National Geophysical and Solar-Terrestrial Data Center, Boulder,Colorado: File No. 00106, OOS SURVEYOR, CS-1-72; File No. 00078, USNS SHOUP, OSS SURVEYOR and others, 1969-1970.

MARINE GRAVITY SURVEYS

Organization	Ship	Year	Navigation System	Gravity Meter
NAVOCEANO	SHOUP	1969	Satellite Smooth Floc	L&R S-34
NOAA and NAVOCEANO	SURVEYOR	1970	Decca-Lambda Lorac B Hi Fix Satellite	Bell, SN-4
NOAA and NAVOCEANO	SURVEYOR	1972	Near Shore-Radar Ranging Offshore-Satellite & Smooth Floc	L&R S-52

NAVOCEANO: Navy Oceanographic Office
NOAA: National Oceanic and Atmospheric Administration
L&R: LaCoste and Romberg

MAP LOCATION — CALIFORNIA

Bathymetry compiled from U.S. Coast and Geodetic Survey hydrographic surveys dated 1922 and 1940 supplemented by hydrographic information from other sources

Bathymetric contour interyals: 10 m to the 200 m depth, 50 m to maximum depth. Datum mean lower low water

ELEVATIONS

Islets above mean high water

Rocks awash above mean lower low water

SCALE 1:250 000

FREE-AIR GRAVITY MAP OF THE CALIFORNIA OUTER CONTINENTAL SHELF, 38°-40° NORTH LATITUDE

By
B. A. Kososki, C. D. Cavit, and A. G. McHendrie

1981

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1981

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225