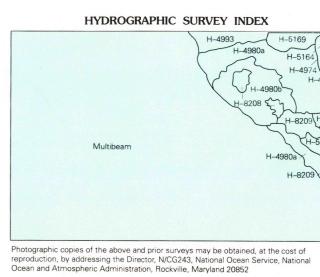
H-4974 H-4979 H-4980a H-4980b H-4993 H-5013 H-5164 H-5169 H-8208 H-8209 Multibeam 1929 1929 1929 1929 1929 1929 1931 1931-32 1954 1954 1985-89 1:20,000 1:40,000 1:80,000 1:20,000 1:120,000 1:20,000 1:20,000 1:20,000 1:20,000 1:50,000 .03-.14 .04-.55 .07-1.1 .02-.14 .20-4.9 .01-.20 .03-.10 .07-.55 .03-.34 .03-.20 Full Coverage





Farallon Islands CALIFORNIA

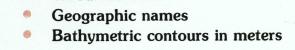
37123-E1-TB-10

1:100 000-scale metric topographic—bathymetric map



30 X 60 MINUTE QUADRANGLE **SHOWING**

- Contours and elevations in meters
- Highways, roads and other
- manmade structures Water features
- Woodland areas





1993

Produced by the United States Geological Survey and the National Ocean Service

Compiled from USGS 1:24 000-scale topographic maps dated 1976, and 1988. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked Map edited 1993

Map edited 1993

Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes. Mean lower low water (dotted) line and mean high water (heavy solid) line compiled by NOS from tide-coordinated aerial photographs Apparent shoreline (outer edge of vegetation shown by light solid line 1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 10 25 000-foot ticks: California coordinate system, zone 3

The difference between (NAD 27) and North American Datum of The difference between (NAD 27) and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875 Offshore protraction survey data, shown in red, furnished by the Minerals

Management Service. Heavy lines indicate limits of Outer Continental Shelf Official Protraction Diagram dated November 2, 1976. The protractions on this map are not for Federal leasing purposes; for such purposes, refer to the 1:250 000-scale OCS Official Protraction Diagram available from the Minerals Management Service There may be private inholdings within the boundaries of the National or State reservations shown on this map CONTOUR INTERVAL 50 METERS CONTOUR INTERVAL 50 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO 200 METER DEPTH
SUPPLEMENTED BY 2 METER CONTOURS, THENCE 50 METERS TO MAXIMUM
DEPTH, SUPPLEMENTARY 10 METER CONTOURS. DATUM IS MEAN LOWER
LOW WATER. THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL
HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44
ACCURACY STANDARDS AND/OR STANDARDS USED AT THE DATE
OF THE SURVEY
BATHYMETRIC SURVEY DATA COMPILES WITH INTERNATIONAL

BATHYMETRIC SURVEY DATA COMPILES WITH INTERNATIONAL

CONVERSION TABLE DECLINATION DIAGRAM ADJUINING MAPS

Meters	Feet	*	1	2	3
1	3.2808 6.5617	GN MN	4		5
3	9.8425				_
4	13.1234		6	7	8
5	16.4042	/ 15½°	U	•	
6	19.6850	0°18′ / 276 MILS			
7	22.9659	5 MILS			
8	26.2467				
9	29.5276		1 5		
10	32.8084	/	2 Bodega Bay 3 Napa		
o convert meters to feet nultiply by 3.2808		UTM grid convergence (GN) and 1993 magnetic declination (MN)	5 San Francisco		
o convert feet to meters nultiply by 0.3048		at center of map Diagram is approximate	8 Palo Alto		

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO, 80225, OR RESTON, VIRGINIA 22092 AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

Secondary highway, hard surface		
Light duty road, principal street, hard or improved surface		wheather conserve
Other road or street; trail		
Route marker: Interstate; U. S.; State		
Railroad: standard gage; narrow gage		<u> </u>
Bridge; overpass; underpass	*	
Tunnel: road; railroad	→ - ← →	$-\leftarrow$
Built up area; locality; elevation		155
Airport; landing field; landing strip	many flames	Averagement
National boundary		
State boundary		
County boundary		
National or State reservation boundary		
Land grant boundary		
U. S. public lands survey: range, township; section		
Range, township; section line: protracted		
Power transmission line; pipeline		
Dam; dam with lock		1-0-
		_

A pamphlet describing topographic maps is available on request