

POINT ARENA, CALIFORNIA

30X60 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)

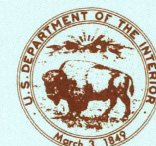
Point Arena
CALIFORNIA

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
- Geographic names
- Bathymetric contours in meters



U. S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE



1981

Produced by the Geological Survey and the National Ocean Service

Service
Compiled from USGS 1:24 000-scale topographic maps dated 1960-1978
Planimetry revised from aerial photographs taken 1976-77 and other source data. Revised information not field checked. New edition 1981.
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 NOAA from tide-coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line.
Projection and 19 000-meter grid, zone 10; National Transverse Mercator 25 000-foot grid ticks based on California coordinate system, zone 2 1957 North American Datum.
To place on the predicted North American Datum 1983 move the projection lines 17 meters north and 96 meters east.
Official protection survey data, shown in red, furnished by the Minerals Management Service. Heavy lines indicate limits of Outer Continental Shelf Official Protection Diagram dated November 2, 1975. The protection on this map are not for Federal leasing purposes; for such purposes, refer to OCS Official Protection Diagram available from the Minerals Management Service.
Where omitted, land lines have not been established or are not shown because of insufficient data.
Limited revision and bathymetry added 1987.
There may be other labelings within the boundaries of National or State reservations shown on this map.
CONTOUR INTERVAL: 40 METERS
NATIONAL GEODETIC VERTICAL DATUM of 1989
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO 300 METERS
DEPTH: BY HYDROGRAPHIC & METEOROLOGICAL SERVICE, THENCE TO METERS BY NATIONAL OCEAN SERVICE
CONTOUR DATUM: 0 MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet			1	2	3
1	3.2808			4	5	
2	6.5617			6	7	8
3	9.8425					
4	13.1234	UTM grid convergence (G) and 1987 magnetic (M) at center of map. Diagram is approximate.		2 Ukiah	5 Headlands	
5	16.4042			6 Eureka Bay	8 Napa	
6	19.6850	To convert meters to feet multiply by 3.2808				
7	22.9659					
8	26.2467	To convert feet to meters multiply by 0.3048				
9	29.5276					
10	32.8084					

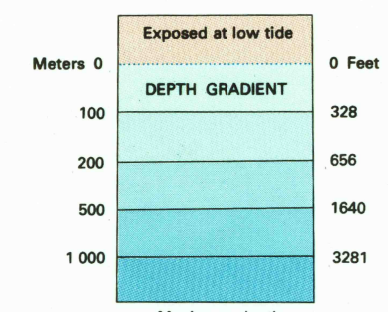
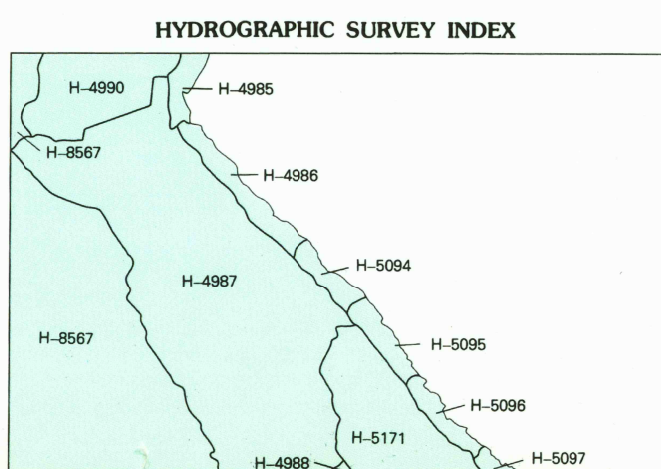
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, trail
- Route marker: Interstate, U. S. State
- Railroad: standard gage; narrow gage
- Bridge: overpass; underpass
- Tunnel: road, railroad
- Built up area, locality, elevation
- Airport, landing field, landing strip
- 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: protected
- Power transmission line, pipeline
- Dam: dam with lock
- Cemetery, building
- Windmill, water wall, spring
- Mine shaft; adit or cave; mine, quarry, gravel pit
- Campground, picnic area, U. S. location monument
- Ruins: cliff dwelling
- Distorted surface: strip mine, lava, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, perennial, intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub, mangrove
- Orchard, vineyard

A perspective describing topographic maps is available on request

HYDROGRAPHIC SURVEY INFORMATION			
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4885	1929	1:20,000	02-17
H-4886	1929	1:10,000	02-14
H-4887	1929	1:40,000	07-11
H-4888	1929	1:40,000	14-33
H-4889	1929	1:40,000	08-26
H-4890	1929	1:10,000	02-14
H-4891	1929	1:10,000	02-14
H-4892	1929	1:10,000	02-14
H-4893	1929	1:10,000	02-14
H-4894	1929	1:10,000	02-14
H-4895	1929	1:10,000	02-14
H-4896	1929	1:10,000	02-14
H-4897	1929	1:10,000	02-14
H-4898	1929	1:10,000	02-14
H-4899	1929	1:10,000	02-14
H-4900	1929	1:10,000	02-14



Photographic copies of the above and prior surveys may be obtained, at the cost of reproduction, by addressing the Director, NOAA's National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852