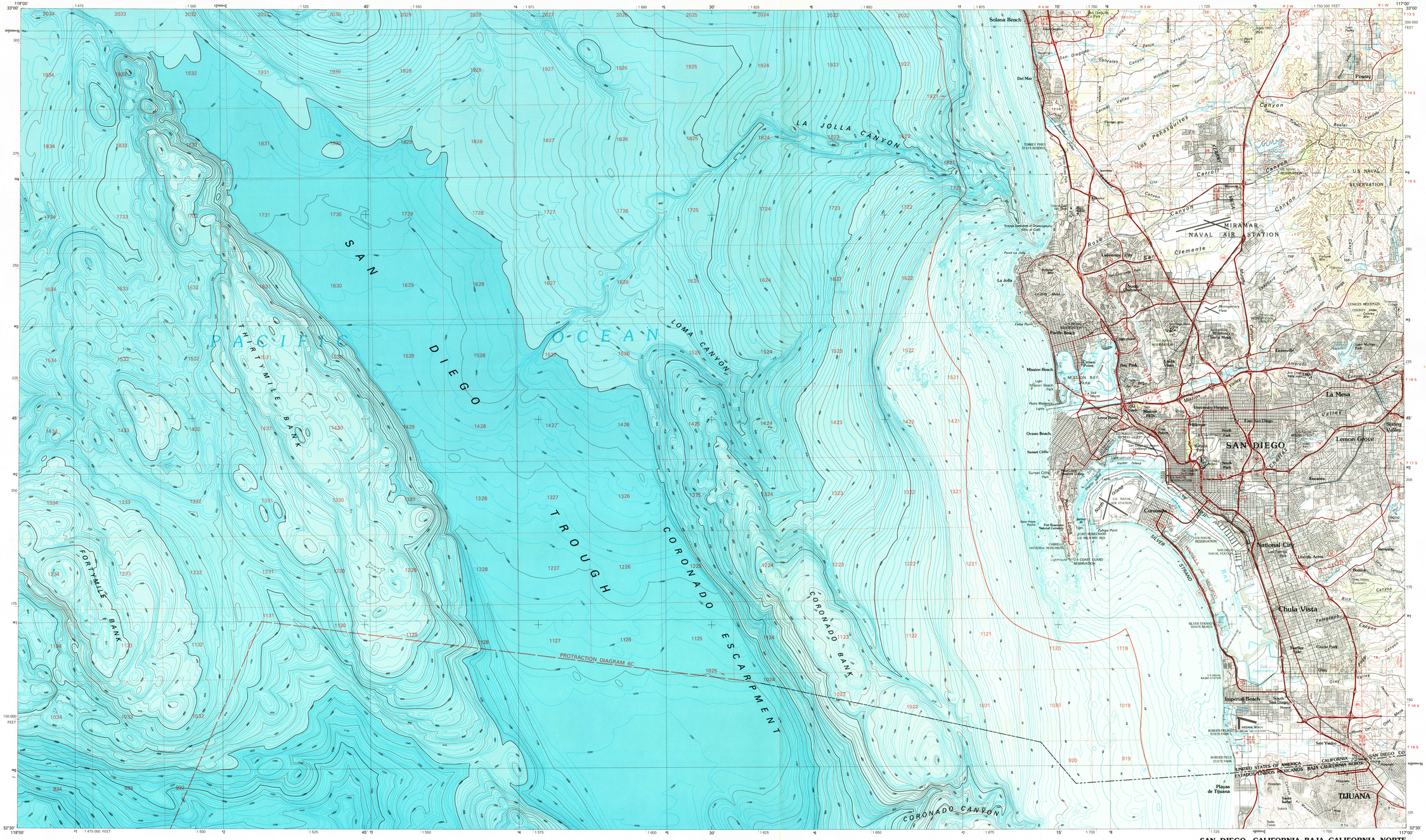


San Diego

CALIFORNIA–BAJA CALIFORNIA NORTE

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

1979

Produced by the Geological Survey and the National Ocean Service

Compiled from USGS 1:24 000-scale topographic maps dated 1967–1975
Planimetry revised from aerial photographs taken 1972–1977 and other source data. Revised information not field checked. Map edited 1979
Mexican portion copied from Dirección General de Geografía del Territorio Nacional 1:50 000-scale map dated 1974
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
Projection and 10 000-meter grid, zone 11; Universal Transverse Mercator
25 000-foot grid ticks based on California coordinate system, zone 6
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 3 meters south and 81 meters east
Offshore protraction survey data, shown in red, furnished by the Minerals Management Service. Heavy lines indicate limits of Outer Continental Shelf Official Protraction Diagrams dated October 15, 1984. The protractions on this map a.: not for Federal leasing purposes; for such purposes, refer to OCS Official Protraction Diagrams available from the Minerals Management Service
Limited revision and bathymetry added 1988
There may be private inholdings within the boundaries of National or State reservations shown on this map

CONTOUR INTERVAL 50 METERS
DATUM IS MEAN SEA LEVEL
NAD PORTION NATIONAL GEODETIC VERTICAL DATUM OF 1929
MEXICAN PORTION MEAN SEA LEVEL
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO 200 METERS DEPTH, WITH SUPPLEMENTARY 2 METER CONTOURS, THENCE 50 METERS TO MAXIMUM DEPTH, WITH SUPPLEMENTARY 10 METER CONTOURS–DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE THREE DATUMS IS VARIABLE

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

0°16' 5 MILS — 13½° 240 MILS

UTM grid convergence (GN) and true magnetic declination (M) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4		5
6	7	8

1 Santa Catalina Island
2 Oceanside
3 Pala Mesa Valley
4 San Clemente Island
5 El Cajon
6
7
8

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
AND BY CENTRO DE ASESORIA Y VENTA DE INFORMACIÓN ESTADÍSTICA Y CARTOGRAFICA BALDERAS #71, MEZZANINE MEXICO 1, D.F.

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: protracted
Power transmission line; pipeline
Dam; dam with lock
Cemetery; building
Windmill; water well; 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 pamphlet describing topographic maps is available on request

KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 0 1 2 3 4 5 6 7 8 9 10 11 12

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 50 METERS

0 1000 5000 10 000 15 000 20 000 METERS
0 5000 10 000 15 000 20 000 25 000 30 000 35 000 40 000 45 000 50 000 55 000 60 000 65 000 FEET

● INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1988

SAN DIEGO, CALIFORNIA–BAJA CALIFORNIA NORTE

32117-E1-TB-100

1979

BATHYMETRY ADDED 1988

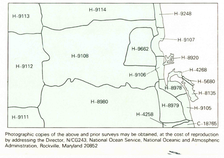
HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4258	1922–23	1:40,000	21–95
H-6268	1923	1:10,000	02–7.5
H-5860	1934	1:10,000	01–16
H-6920	1961	1:10,000	02–06
H-8920	1961	1:10,000	02–06
H-8978	1968	1:10,000	02–15
H-8979	1968	1:20,000	08–15
H-8980	1968	1:40,000	20–40
H-9105	1970	1:10,000	03–09
H-9106	1970	1:10,000	03–09
H-9107	1970	1:10,000	02–12
H-9108	1970	1:40,000	30–60
H-9111	1970	1:40,000	20–50
H-9112	1970	1:40,000	20–50
H-9113	1970	1:40,000	15–45
H-9114	1970	1:40,000	15–42
H-9248	1971	1:10,000	02–06
H-9662	1976	1:20,000	04–12

NOS CHART 18765, 1977, 1:100,000

USGS NMD HISTORICAL MAP
OCT 07 1988
REC'D FILE COPY

HYDROGRAPHIC SURVEY INDEX



Photographic copies of the above and prior surveys may be obtained, at the cost of reproduction, by addressing the Director, NC/CG2, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852

Meters 0 — Exposed at low tide — 0 Feet
DEPTH GRADIENT
100 — 328
200 — 656
500 — 1640
1000 — 3281
Maximum depth