

PRODUCED BY THE U. S. GEOLOGICAL SURVEY AND THE NATIONAL OCEAN SURVEY
 Base map prepared by the Defense Mapping Agency from 1:24,000, 1:25,000, 1:50,000-scale maps dated 1936-1956 and aerial photographs taken 1952-1955. Map field checked by the U. S. Geological Survey from aerial photographs taken 1976 and other source data. Revised information not field checked. Map edited 1979.
 Bathymetry compiled by the National Ocean Survey from tide-coordinated hydrographic surveys. Bathymetric survey data comply with International Hydrographic Organization (IHO) Special Publication 44 accuracy standards and/or standards used at the date of the survey. This information is not intended for navigational purposes.
 Mean low water (dotted) line and mean high water (solid) line compiled by NOS from tide-coordinated aerial photographs.
 Offshore protection survey data, shown in red, compiled by the Bureau of Land Management. Heavy lines indicate limits of BLM Outer Continental Shelf Official Protection Diagram dated August 9, 1969. The protections on this map are not for Federal leasing purposes; for such purposes, refer to the OCS Official Protection Diagrams available from the Bureau of Land Management.
 Transverse Mercator Projection. 10,000-meter Universal Transverse Mercator grid, zone 11. 100,000-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 1 meter south and 28 meters east.
 Area covered by light-blue pattern is subject to controlled inundation. Certain land grant names and boundaries are omitted to avoid congestion. Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram.
 There may be private inholdings within the boundaries of National or State reservations shown on this map.

LEGEND
 Figures in red denote approximate distances in miles between stars

POPULATED PLACES
 Over 500,000
 100,000 to 500,000
 20,000 to 100,000
 5,000 to 25,000
 1,000 to 5,000
 Less than 1,000

ROADS
 Primary, all-weather, hard surface
 Secondary, all-weather, hard surface
 Light-duty, all-weather, hard or improved surface
 Fair or dry weather, unimproved surface
 Interchange
 Sun Valley Route markers: Interstate, U.S. State

RAILROADS
 Single track double or multiple
 Normal gauge
 Narrow gauge
 International

BOUNDARIES
 State
 County
 Park or reservation

LAND GRANT BOUNDARY
 Land grant boundary

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

Scale 1:250,000
 0 5 10 15 20 25 30 Statute Miles
 0 5 10 15 20 25 30 Kilometers
 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET
 WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO THE 200 METER DEPTH, 50 METERS TO MAXIMUM DEPTH
 DATUM: MEAN LOWER LOW WATER
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

MAGNETIC VARIATION FOR 1979 IS 14° (250 MILS) WESTERLY OVER THE ENTIRE AREA

NATIONAL OCEAN SURVEY HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (Neat Meter)	SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (Neat Meter)
H-4367	1924	1:40,000	21	H-5648	1934	1:100,000	03-11
H-4368	1924	1:40,000	43-1,25	H-5650	1934	1:100,000	03-08
H-5524	1934	1:200,000	21	H-5115	1934	1:100,000	03-09
H-5525	1934	1:200,000	03-11	H-5116	1934	1:100,000	11-24
& A-56	1934	1:100,000	03-11	H-5117	1935	1:40,000	11-87
H-5602	1934	1:100,000	03-11	H-5118	1935	1:40,000	21-03
H-5603	1934	1:100,000	03-11	& A-56	1937	1:80,000	1,0
H-5604	1934	1:100,000	03-11	H-5119	1935	1:80,000	02-2,3
H-5605	1934	1:100,000	03-11	H-5649	1934	1:80,000	21-48
H-5606	1934	1:100,000	03-16	H-5650	1934	1:80,000	03-08

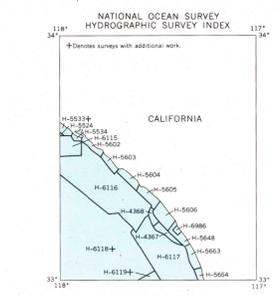
DEPTH GRADIENTS
 Meters 0 200 400 600
 Feet 0 200 400 600
 max depth

INDEX TO ADJOINING SHEETS

LOS ANGELES NI 11-4	SAN BERNARDINO NI 11-5	NEEDLES NI 11-6
LONG BEACH NI 11-3	SANTA ANA NI 11-8	SALTON SEA NI 11-9
CLAYTON NI 11-10	SAN DIEGO NI 11-7	UNION ISLAND NI 11-2
CLEMENTE NI 11-11	SAN JOAQUIN NI 11-1	MEXICO

1959 HISTORICAL MAP ARCHIVES
 JAN 31 1980
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