CALIFORNIA 1:50,000

SANTA ANA

EDITION 4-DMA SERIES V795 SHEET 2451 III

1 540 000 FEET

570 000 FEET

490 000 FEET

1 470 000 FEET

Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

Scale 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers

3 Statute Miles

3 Nautical Miles

LEGEND

MAP INFORMATION AS OF 1974

ON THIS MAP, A LANE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS, ONLY THROUGH ROADS ARE CLASSIFIED.

ROADS

- Divided highway with median strip
- Primary, all weather, hard surface
- Secondary, all weather, hard surface
- Light duty, all weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Route markers: Interstate; Federal; State
- Bridge: With superstructure; Without superstructure

RAILROADS (Standard gauge 1.44m.-4'8½")

- Single track
- Multiple track (3 TRACKS)
- Nonoperating
- Railroad station: Location known; Location unknown
- Car line
- Railroad bridge: With superstructure; Without superstructure
- Tunnel: Highway; Railroad

BOUNDARIES

- National, with monument
- State, territory
- County, parish
- Civil township, town
- Incorporated city, village, town
- Reservation: National, State; Military (MIL RES)

- Power transmission line
- Buildings
- Structures
- Church; School
- Power substation
- Windmill; Watermill
- Well; Tank
- Mine shaft
- Open pit mine or quarry
- Horizontal control station
- Bench mark, monumented (BM × 246)
- Bench mark, non-monumented (× 301)
- Spot elevations in meters (× 696)
- Levees, rims, dikes
- Bluffs, cliffs
- Woodland
- Scattered trees; Scrub
- Vineyard; Orchard, plantation
- Intermittent lake; Dam: Earthen, Masonry
- Stream: Perennial, Intermittent
- Marsh, swamp
- Small rapids; Small falls
- Large rapids; Large falls (Falls, Rapids)

HYDROGRAPHIC DATUM . . . . . MEAN LOWER LOW WATER

- Foreshore flats
- Rocks
- Limit of danger
- Wreck: Sunken; Exposed
- Wharf, pier
- Sea wall

ELEVATIONS IN METERS

CONTOUR INTERVAL 20 METERS
SUPPLEMENTARY CONTOURS 5 METERS

SPHEROID	CLARKE 1866
GRID	1,000 METER UTM ZONE 11 (BLACK NUMBERED LINES)
	10,000 FOOT STATE GRID TICKS: CALIFORNIA, ZONE 6
PROJECTION	UNIVERSAL TRANSVERSE MERCATOR
VERTICAL DATUM	NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM	1927 NORTH AMERICAN DATUM
CONTROL BY	USGS AND NOS/NOAA
PREPARED BY	U. S. GEOLOGICAL SURVEY
PRINTED BY	DMAHTC 5-79

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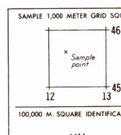
SAMPLE 1,000 METER GRID SQUARE



100,000 M. SQUARE IDENTIFICATION: MH

GRID ZONE DESIGNATION: 11S

100 METER REFERENCE

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. 12 3
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. 45 6

Example: 123456

WHEN REPORTING OUTSIDE THE 100,000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100,000 METER SQUARE IDENTIFICATION.

Example: MH123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.

Example: 11SMH123456

GRID CONVERGENCE 0°29' (9 MILS) FOR CENTER OF SHEET

GN

GRID NORTH

TRUE NORTH

MAGNETIC NORTH

1975 G-M ANGLE 15° (267 MILS)

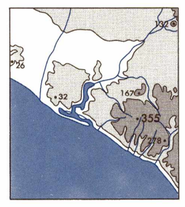
TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH ADD G-M ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH SUBTRACT G-M ANGLE

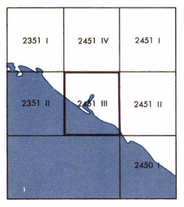
CONVERSION GRAPH
(1 meter = 3.28 feet)

Meters	Feet
400	1300
	1200
	1100
300	1000
	900
	800
200	700
	600
	500
100	400
	300
	200
	100
0	0

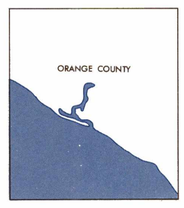
ELEVATION GUIDE



ADJOINING SHEETS



BOUNDARIES



High
Medium
Low

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0899; COMMERCIAL 314-263-4864; DSN 693-4864; OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN.: ES, MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

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THIS MAP IS RED-LIGHT READABLE

There may be private inholdings within the boundaries of the National or State reservations shown on this map

SHEET 2451 III SERIES V795 EDITION 4-DMA SANTA ANA