



USGS Library Reston, VA. Topo Archive

Prepared and published by the National Geospatial-Intelligence Agency

MAP INFORMATION AS OF 2002

LEGEND

POPULATED PLACES
 Densely built-up areas
 Sparingly or moderately built-up areas

ROADS
 All weather, hard surface:
 Divided highway
 One lane wide
 Two or more lanes wide
 One lane wide
 All weather, loose surface:
 Two or more lanes wide
 One lane wide
 Fair or dry weather, loose surface
 Track, Trail
 Route markers: Interstate
 National, Secondary
RAILROADS
 Normal gauge 1.44m
 Narrow gauge
 Electric
BOUNDARIES
 International
 First order
 Second order
MISCELLANEOUS CULTURAL FEATURES
 Building, Ruin, School
 Church
 Cemetery
 Hospital, Helipad
 Caisson, Tank, Localized object
 Well, Landmark area
 Airfield/Runway, Dam
 Mine: Active, Abandoned
 Bridge, Pedestrian bridge

OBSTRUCTIONS (46m or higher)
 Elevation of obstruction top above sea level
 Elevation of obstruction top above ground level
 High tension powerlines
 Catenary powerlines
DRAINAGE
 Stream:
 Less than 25m wide
 25m wide or more
 Ditch:
 Less than 25m wide
 25m wide or more
 Well
 Lake/pond
 Swamp: Land subject to natural fluctuation
 Stream: Disappearing, Disappearing
MISCELLANEOUS RELIEF
 Spot elevation: Highest, Normal
 Depression
 Contour interval
 Contour interval
 Escarpment
 Levee
 Supplementary contour
 Sand, Gravel
 Disturbed surface
VEGETATION
 Woodland
 Scrub, Orchard
 Scattered trees
 Area name
 Imperial Gables

NOTES
 A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8 FEET) WIDE.
 ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.
 CAUTION: NOT ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE SHOWN.
 NORTH AMERICAN DATUM 1983 (NAD 83) AND WORLD GEODETIC SYSTEM 1984 (WGS 84) ARE EQUIVALENT FOR MAPPING, CHARTING AND NAVIGATION AT THIS SCALE.

CONTOUR INTERVAL 20 METERS
 SUPPLEMENTARY CONTOURS 10 METERS

ELEVATIONS IN METERS

CONVERSION GRAPH

Meters	Feet	Meters	Feet
500	1600	900	2900
1000	3200	1300	4200
1500	4800	1700	5500
2000	6400	2100	6800
2500	8000	2500	8100
3000	9600	2900	9400
3500	11200	3300	10700
4000	12800	3700	12000
4500	14400	4100	13300
5000	16000	4500	14600

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. Example: 12345

2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. Example: 456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREPARE THE 100,000 METER SQUARE IDENTIFICATION IN UPPER LEFT CORNER.

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREPARE THE GRID ZONE DESIGNATION.

Example: 11S 123456

SCALE 1:50,000

0 1 2 3 4 5 Kilometers
 0 1 2 3 Statute Miles
 0 1 2 3 Nautical Miles

BOUNDARIES

CALIFORNIA
 Imperial County

ADJOINING SHEETS

2950 I	3050 IV	3050 I
2950 II	3050 II	3050 II
2949 I	3049 IV	3049 I

SLOPE GUIDE

PERCENTAGE
 DEGREE

10% 10.0°
 12% 12.0°
 15% 15.0°
 20% 20.0°
 25% 25.0°
 30% 30.0°
 40% 40.0°
 50% 50.0°
 60% 60.0°
 70% 70.0°
 80% 80.0°
 90% 90.0°

ELEVATION GUIDE

High
 Medium
 Low

ELIPSOID WORLD GEODETIC SYSTEM 1984
 1,000 METER UTM ZONE 11 (BLACK NUMBERED LINES)
 5,000 METER STATE GRID TICS, CALIFORNIA ZONE II

PROJECTION UNIVERSAL TRANSVERSE MERCATOR
 VERTICAL DATUM NATIONAL GEODETIC DATUM OF 1929
 HORIZONTAL DATUM NORTH AMERICAN DATUM 1983/WORLD GEODETIC SYSTEM 1984
 PRINTED BY NGA 10-04

GRID CONVERGENCE
 2000 G-M ANGLE
 11.1° (200 MILES)

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

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