



Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.  
 MAP INFORMATION AS OF 1981

**LEGEND**

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN. A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE. IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED. THERE MAY BE PRIVATE ENCLOSURES WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

**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
- Road markers: Interstate, Federal, State
- Bridge
- Railroads (Standard gauge 1.44m - 4'7 1/2")
- Single track
- Multiple track
- Nonoperating
- Railroad station: Location known; Location unknown
- Car line
- Railroad bridge
- Tunnel: Highway; Railroad

**BOUNDARIES**

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

**GRATICULE AND GRIDS BASED ON NORTH AMERICAN DATUM 1983; SHEET CORNERS ESTABLISHED ON OLD HAWAIIAN DATUM (OHD). THE DIFFERENCE IN POSITION OF THE GRATICULE BETWEEN NAD 83 AND OHD IS APPROXIMATELY 300 METERS IN LATITUDE AND 289 METERS IN LONGITUDE. THE RELATIONSHIP BETWEEN NAD 83 AND OHD MAY BE DETERMINED BY COMPARING THE NAD 83 VALUES FOR SHEET CORNERS WITH CORRESPONDING OHD VALUES SHOWN IN THE INDEX TO ADJOINING SHEETS DIAGRAM.**

**Power transmission line**

**Buildings**

- Church, School
- Power substation
- Windmill; Watermill
- Well, Tank
- Mine shaft
- Open pit mine or quarry
- Horizontal control station
- Bench mark, monumented
- Bench mark, non-monumented
- Spot elevations in meters
- Lowest, clinic, dilapidated
- Bluffs, cliffs
- Woodland
- Scattered trees; Scrub
- Vineyard; Orchard; plantation
- Intermittent lake; Dam; Earthdam; Masonry
- Stream; Perennial; Intermittent
- Marsh, swampy
- Small falls; Large falls
- Small rapids; Large rapids

**SCALE 1:50,000**

Meters 1000 500 0 1 2 3 4 5 Kilometers

0 1 2 3 4 5 Statute Miles

0 1 2 3 Nautical Miles

**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 20 METERS**

**CONVERSION GRAPH**

(1 meter = 3.28 feet)

Meters 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

Feet 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

**SPHEROID** ..... GEODETIC REFERENCE SYSTEM 80

**GRID** ..... 1,000-METER UTM ZONE 6 (BLACK NUMBERED LINES)

**PROJECTION** ..... TRANSVERSE MERCATOR

**VERTICAL DATUM** ..... MEAN SEA LEVEL

**HORIZONTAL DATUM** ..... NORTH AMERICAN DATUM 1983

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**SAMPLE 1,000 METER GRID SQUARE**

46

Sample point

45

12 13

100,000 M. SQUARE IDENTIFICATION

KB

**GRID ZONE DESIGNATION**

5Q

**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 ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION BY WHICH THE POINT LIES.

Example: KB123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.

Example: 5QKB123456

**HYDROGRAPHIC DATUM** ..... MEAN LOWER LOW WATER

Depth curve (meters)

Foreshore flats

Reefs exposed: Reef

Wreck: Exposed; Sunk with masts exposed

Wharf, pier

Seawall

Oil/gas rig

**BOUNDARIES**

Hawaii County

**ADJOINING SHEETS**

5916 IV 5916 I 6016 IV

19°22'30" 19°22'30"

155°15' 155°15'

19°17'30" 19°17'30"

155°15' 155°15'

Sheet 5916 I falls within NE S-1, S-15, 1:50,000

**ELEVATION GUIDE**

140

130

120

110

100

90

80

70

Highest High Medium Low

**SLOPE GUIDE**

PERCENTAGE DEGREE

13% 14% 15% 16% 17% 18% 19% 20% 21% 22% 23% 24% 25% 26% 27% 28% 29% 30% 31% 32% 33% 34% 35% 36% 37% 38% 39% 40% 41% 42% 43% 44% 45% 46% 47% 48% 49% 50%

0.5° 1.0° 1.5° 2.0° 2.5° 3.0° 3.5° 4.0° 4.5° 5.0° 5.5° 6.0° 6.5° 7.0° 7.5° 8.0° 8.5° 9.0° 9.5° 10.0° 10.5° 11.0° 11.5° 12.0° 12.5° 13.0° 13.5° 14.0° 14.5° 15.0° 15.5° 16.0° 16.5° 17.0° 17.5° 18.0° 18.5° 19.0° 19.5° 20.0° 20.5° 21.0° 21.5° 22.0° 22.5° 23.0° 23.5° 24.0° 24.5° 25.0° 25.5° 26.0° 26.5° 27.0° 27.5° 28.0° 28.5° 29.0° 29.5° 30.0° 30.5° 31.0° 31.5° 32.0° 32.5° 33.0° 33.5° 34.0° 34.5° 35.0° 35.5° 36.0° 36.5° 37.0° 37.5° 38.0° 38.5° 39.0° 39.5° 40.0° 40.5° 41.0° 41.5° 42.0° 42.5° 43.0° 43.5° 44.0° 44.5° 45.0° 45.5° 46.0° 46.5° 47.0° 47.5° 48.0° 48.5° 49.0° 49.5° 50.0°

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH ADD 6-M ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH SUBTRACT 6-M ANGLE

6-M ANGLE (DEGREES)

1191° 0-M ANGLE (200 MILES)

GRID CONVERGENCE (PCS 1251 MILES) FOR CENTER OF SHEET

THREE THIRTS

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH SUBTRACT 6-M ANGLE

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH ADD 6-M ANGLE

AC - HORIZONTAL DISTANCE BETWEEN CONTOURS

AB - HORIZONTAL DISTANCE BETWEEN MARK CONTOURS