

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

Depth curve (meters) . . . . .

Foreshore flats . . . . .

Rocks awash. Reef . . . . .

Wharf. Exposed. Sunken with masts exposed . . . . .

Wharf. pier . . . . .

Swivel . . . . .

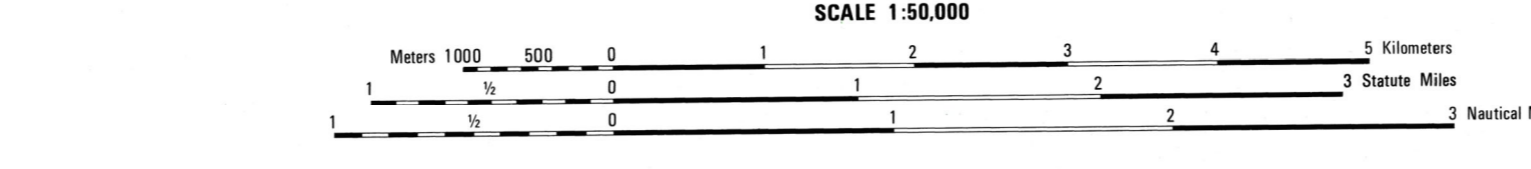
Dredge rig . . . . .

Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.  
MAP INFORMATION AS OF 1983

**LEGEND**

**CAUTION:** ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.  
A LANE ON THIS MAP IS CONSIDERED TO BE 15 METERS WIDE.  
IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.  
THERE MAY BE PRIVATE HOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

ROADS	Power transmission line
Divided highway with median strip	Buildings
Primary, all weather, hard surface	Structures
Secondary, all weather, hard surface	Church, School
Light duty, all weather, hard or improved surface	Power substation
Fair or dry weather, unimproved surface	Windmill, Watermill
Fair or dry weather, unimproved surface	Well, Tank
Traffic	Mine shaft
Route markers: Interstate, Federal, State	Open pit mine or quarry
Bridge	Horizontal central station
RAILROADS (Standard gauge 1.44m - 4'9 1/2")	Bench mark, monument
Single track	Bench mark, non-monumented
Multiple track	Spot elevations in meters
Nonoperating	Levees, rims, dikes
Railroad station: Location known; Location unknown	Bluffs, cliffs
Car line	Woodland
Railroad bridge	Scattered trees; Scrub
Tunnel: Highway, Railroad	Viewshed: Orchard, plantation
BOUNDARIES	Intermittent lake; Dam; Earthdam; Masonry
National, with monument	Stream: Perennial; Intermittent
State, territory	Marsh swamp
County, parish	Small falls; Large falls
Civil township, town	Small rapids; Large rapids
Incorporated city, village, town	
Reservation: National, State, Military	



**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 40 METERS**

**SUPPLEMENTARY CONTOURS 20 METERS**

**CONVERSION GRAPH**  
(1 meter = 3.28 feet)

Meters	Feet
0	0
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952
1000	3280

**SPHEROID . . . . . GEODETIC REFERENCE SYSTEM 80**  
GRID . . . . . 100-METER UTM ZONE 4 (BLACK NUMBERED LINES)  
5000-METER STATE GRID TICS, HAWAII (ZONE 3)  
TRANSVERSE MERCATOR  
PROJECTION  
VERTICAL DATUM . . . . . MEAN SEA LEVEL  
HORIZONTAL DATUM . . . . . NORTH AMERICAN DATUM 1983  
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**100 METER REFERENCE**  
1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenth (100 meters) from grid line to point. 12.3  
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenth (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 IN WHICH THE POINT LIES.  
Example: FJ123456  
When reporting across a 100,000 METER LINE, PREFIX THE GRID ZONE DESIGNATION AREA PREFIX THE GRID ZONE DESIGNATION.  
Example: 40FJ123456

**USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK:  
1-800-455-0089, COMMERCIAL 314-263-4884, DSN 893-4884, OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-  
INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP L-88, 4800 SANGAMORE ROAD, BETHESDA, MD 20818-5000.**

