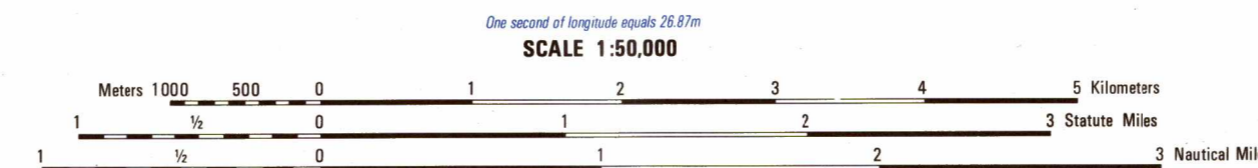
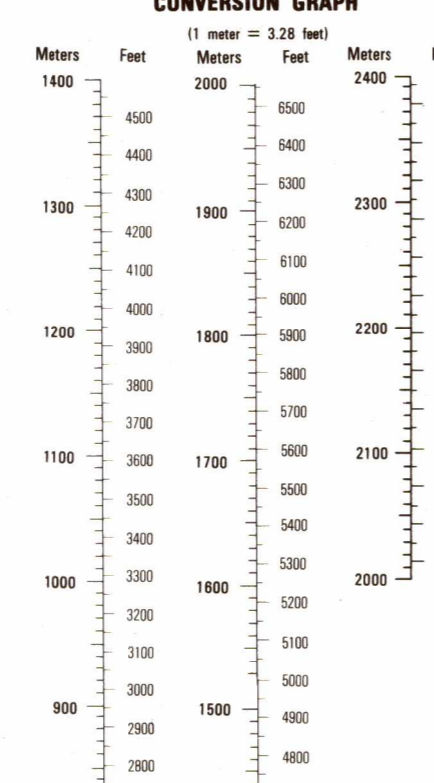


Prepared and published by the Defense Mapping Agency Hydrographic/Topographic Center, Bethesda, MD.
 MAP INFORMATION AS OF 1990



CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.
 A LANE ON THIS MAP IS CONSIDERED TO BE 25 METERS WIDE.
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.
 THERE MAY BE PRIVATE INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

- LEGEND**
- 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
 - RAILROADS (Standard gauge 1.44m - 4'8 1/2")
 - Single track
 - Multiple tracks
 - Nonoperating
 - Railroad station: Location known; Location unknown
 - Horizontal control station
 - Railroad bridge
 - Tunnel: Highway, Railroad
 - Bench mark, non-monumented
 - Bench mark, monumented
 - Spot elevations in meters: Highest; Normal
 - BOUNDARIES**
 - National, with monument
 - State, parish
 - Civil township, town
 - Incorporated city, village, town
 - Reservation: National, State, Military
 - OBSTRUCTIONS**
 - Elevation of obstruction top above sea level
 - Elevation of obstruction top above ground level
 - Power transmission line
 - Buildings
 - Structures
 - Windmill; Watermill
 - Well; Tank
 - Church; School
 - Power substation
 - Open pit mine or quarry; Mine shaft; Prospect
 - Horizontal control station
 - Fence
 - Leaves, rice, dikes
 - Bluffs, cliffs
 - Woodland
 - Scattered trees; Sand
 - Viewed; Orchard; plantation
 - Interruption lake; Dam; Earth; Masonry
 - Stream; Perennial; Intermittent; Springs
 - Marsh; Swamp
 - Small falls; Large falls
 - Small rapids; Large rapids



ELEVATIONS IN METERS

CONTOUR INTERVAL 20 METERS

PROJECTION TRANSVERSE MERCATOR
 GRID 1,000 METER UTM ZONE 13, GEODETIC REFERENCE SYSTEM
 1980 ELLIPSOID (BLACK NUMBERED LINES)
 1,000 METER UTM ZONE 13, CLARKE 1866 ELLIPSOID
 (BLUE NUMBERED TICKS)
HORIZONTAL DATUM NORTH AMERICAN DATUM 1983
VERTICAL DATUM MEAN SEA LEVEL

Reprinted by NIMA 12-99

SAMPLE 1,000 METER GRID SQUARE

100,000 M SQUARE IDENTIFICATION
 EP 1300
 EN 1300
 GRID ZONE DESIGNATION
 13R

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. 45.8

Example: 123456
 Example: EP123456
 Example: EN123456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.
 Example: EP123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.
 Example: 13R EP123456

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0899; COMMERCIAL: 1-314-260-5633; OR WRITING TO: ATTN: CDL, MAIL STOP P-37, NATIONAL IMAGERY AND MAPPING AGENCY, 4800 SANGAMORE ROAD, BETHESDA, MD 20815-5002.

COORDINATE CONVERSION NAD 83 TO NAD 27
 Grid: Add 0.0m; E: Subtract 20.0m; N: No
 Geographic: Subtract 1.0"; Long: Subtract 0.0"

