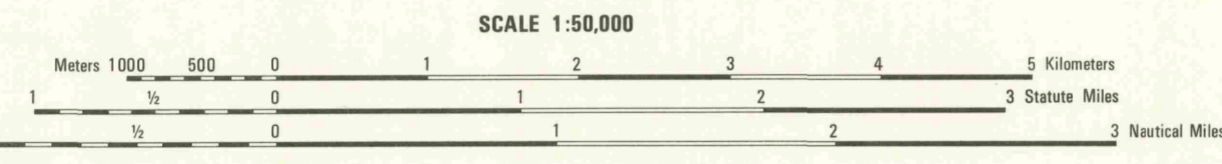


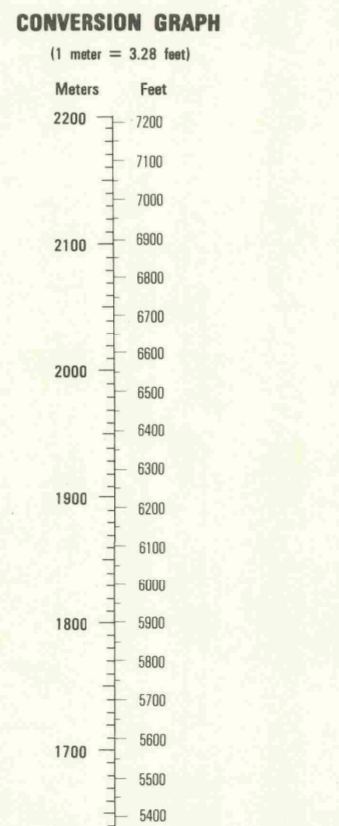
Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.  
MAP INFORMATION AS OF 1986



**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 INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

<ul style="list-style-type: none"> <li>Divided highway with median strip</li> <li>Primary, all weather, hard surface</li> <li>Secondary, all weather, hard surface</li> <li>Light duty, all weather, hard or improved surface</li> <li>Fair or dry weather, unimproved surface</li> <li>Trail</li> <li>Roads markers: Interstate, Federal, State</li> <li>Bridge</li> <li>RAILROADS (Standard gauge 1.44m - 4'9 1/2")</li> <li>Single track</li> <li>Multiple track</li> <li>Nonoperating</li> <li>Railroad station: Location known, Location unknown</li> <li>Car line</li> <li>Railroad bridge</li> <li>Tunnel: Highway, Railroad</li> <li>BOUNDARIES</li> <li>National, with monument</li> <li>State, territory</li> <li>County, parish</li> <li>Civil township, town</li> <li>Incorporated city, village, town</li> <li>Reservation: National, State, Military</li> </ul>	<ul style="list-style-type: none"> <li>Power transmission line</li> <li>Buildings</li> <li>Structures</li> <li>Church, School</li> <li>Power substation</li> <li>Windmill, Watermill</li> <li>Well, tank</li> <li>Mine shaft</li> <li>Open pit mine or quarry</li> <li>Horizontal control station</li> <li>Bench mark, monument</li> <li>Bench mark, non-monument</li> <li>Spot elevations in meters</li> <li>Leaves, rims, dikes</li> <li>Bluffs, cliffs</li> <li>Woodland</li> <li>Scattered trees; Scrub</li> <li>Vineyard; Orchard, plantation</li> <li>Intermittent lake: Dam, Earthen, Masonry</li> <li>Stream: Perennial, Intermittent</li> <li>Marsh, swamp</li> <li>Small falls; Large falls</li> <li>Small rapids; Large rapids</li> </ul>
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**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 20 METERS**

ELLIPSOID: CLARKE 1866  
GRID: 1000-METER UTM ZONE 13 (BLACK NUMBERED LINES)  
PROJECTION: TRANSVERSE MERCATOR  
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929  
HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM  
CONTROL: USGS AND NOS/NOAA  
PREPARED BY: U.S. GEOLOGICAL SURVEY  
PUBLISHED BY: DMA/INTC 2-90

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
OR RESTON, VIRGINIA 22092

**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. 2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. 4.0

EXAMPLE: 123456  
WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.  
EXAMPLE: B1123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.  
EXAMPLE: 13SB1123456

**BOUNDARIES**

**ADJOINING SHEETS**

4554 II	4554 III	4554 IV
4553 I	4553 IV	4553 I
4553 II	4553 III	4553 II

Sheet 4553 IV falls within N13-4 1981, 1:250,000

**ELEVATION GUIDE**

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

THIS MAP IS RED-LIGHT READABLE  
USGS 34107-G3-TM-050  
DMA STOCK NO. V781A4553A