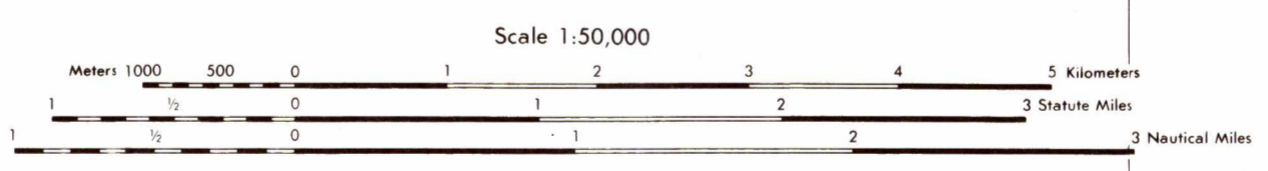


Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D. C.

**LEGEND**

- ON THIS MAP, A LINE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS, ONLY THROUGH ROADS ARE CLASSIFIED.
- 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: With superstructure, Without superstructure  
**RAILROADS** (Standard gauge 1.44m. (4'8 1/2"))  
 Single track  
 Multiple track  
 Nonoperating  
 Railroad station: location known, location unknown  
 Car line  
 Railroad bridge: With superstructure, Without superstructure  
**TUNNELS**: Highway, Railroad  
**BOUNDARIES**  
 National, with monument  
 State, territory  
 County, parish  
 Civil township, town  
 Incorporated city, village, town  
 Reservation: National, State, Military
- Other features:**  
 Power transmission line  
 Buildings  
 Structure  
 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  
 Levee, rim, dike  
 Bluffs, cliffs  
 Woodland  
 Scattered trees, Scrub  
 Vineyard, Orchard, plantation  
 Intermittent lake, Dam, Earthen, Masonry  
 Stream, Perennial, Intermittent  
 Marsh, swamp  
 Small rapids, Small falls  
 Large rapids, Large falls



**ELEVATIONS IN METERS**

CONTOUR INTERVAL 40 METERS  
 SUPPLEMENTARY CONTOURS: 20 METERS

**SPHEROID** ..... CLARKE 1866  
**GRID** ..... 10,000 METER UTM ZONE 12 (BLACK NUMBERED LINES)  
**PROJECTION** ..... TRANSVERSE MERCATOR  
**HORIZONTAL DATUM** ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
**VERTICAL DATUM** ..... 1929 NORTH AMERICAN DATUM  
**CONTROL BY** ..... U.S.G.S. AND MEXICAN  
 PREPARED BY ..... U.S. GEOLOGICAL SURVEY  
 Reprinted by NSA (2-95)

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

**100 METER REFERENCE**

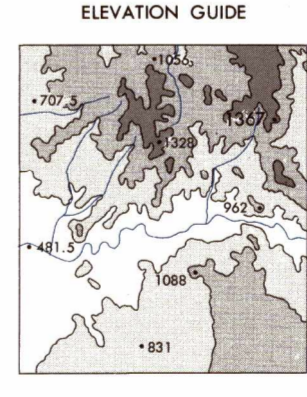
1. Read large numbers labeling the VERTICAL grid line to point and estimate tenths (100 meters) from grid line to point. Example: 12 3

2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. Example: 45 6

Example: 123456

WHEN REPORTING OUTSIDE THE 100,000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100,000 METER SQUARE IDENTIFICATION. Example: VM123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION. Example: 12SVM123456



**ADJOINING SHEETS**

3750 IV	3750 I	3850 IV
3750 III	3750 II	3850 III
3749 IV	3749 I	3849 IV

**BOUNDARIES**

PINAL COUNTY

GRID CONVERGENCE (G-M) (1:48) FOR CENTER OF SHEET

1980 G-M ANGLE 121° (222 MILS)

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

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0898, COMMERCIAL 314-263-4884, DSN 693-4884 OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN: ES MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20815-5003.

**THIS MAP IS RED-LIGHT READABLE**

NSN 7643014044780  
 NGA Ref No. V798X37502