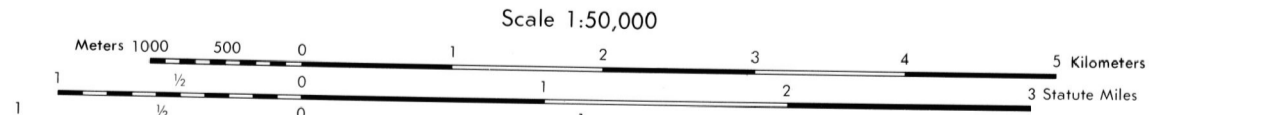


Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency, Hydrographic/Topographic Center, Washington, D. C.

LEGEND

- ON THIS MAP, A LANE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.3 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
 - BOUNDARIES**
 - National, with monument
 - State, territory
 - County, parish
 - Civil township, town
 - Incorporated city, village, town
 - Reservation: National, State, Military
 - Buildings**
 - Buildings
 - Structures
 - Church, School
 - Power substation
 - Windmill, Watermill
 - Well, Tank
 - Mine shaft
 - Open pit mine or quarry
 - Horizontal control station
 - Bench mark, monument
 - Bench mark, non-monumented
 - Spot elevations in meters
 - Leaves, rims, dikes
 - Bluffs, cliffs
 - Woodland**
 - Scattered trees, scrub
 - Vineyard, Orchard, plantation
 - Interruption lake, Dam, Earthen, Masonry
 - Steam, Ferrous, Intermittent
 - Marsh, swamp
 - Small rapids, Small falls
 - Large rapids, Large falls



ELEVATIONS IN METERS

CONTOUR INTERVAL 10 METERS
 SUPPLEMENTARY CONTOURS 5 METERS

SPHEROID: CLARKE 1866
 1:000 METER UTM ZONE 12 (BLACK NUMBERED LINES)
 10,000 FOOT UTM STATE PLANE COORDINATE SYSTEM
 CENTRAL ZONE (BLACK TICKS)
 PROJECTION: NATIONAL GEODETIC DATUM OF 1999
 HORIZONTAL DATUM: NORTH AMERICAN BENCHMARK CONTROL OF 1927
 CONTROL BY: USGS NGS/NOAA
 PREPARED BY: U. S. GEOLOGICAL SURVEY
 PRINTED BY: DMA/HC 4-81

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 OR RESTON, VIRGINIA 22092

100 METER REFERENCE

1. Read large numbers labeling the VERTICAL grid (see left of point and estimate meters (100 meters) from gridline to point.) 1 2 3

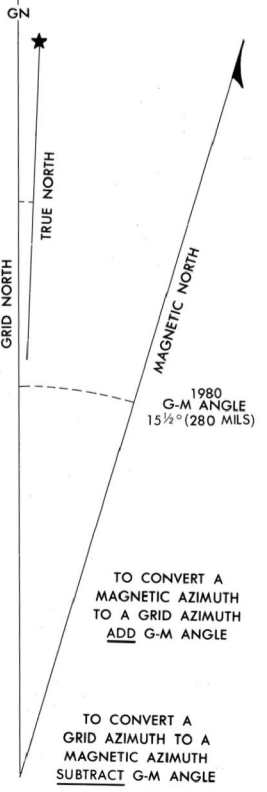
2. Read large numbers labeling the HORIZONTAL grid (see below point and estimate meters (100 meters) from grid line to point.) 4 5

Example: 123456

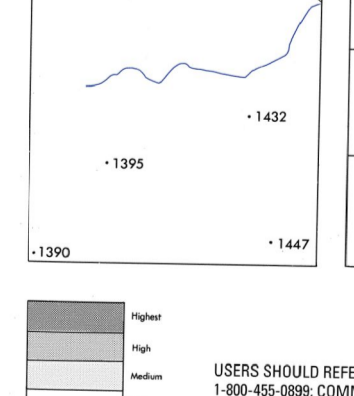
WHEN REPORTING OUTSIDE THE 100,000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100,000 METER SQUARE IDENTIFICATION. Example: U123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION. Example: 12SU123456

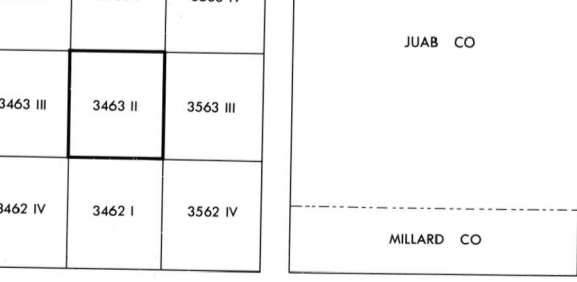
GRID CONVERGENCE FOR CENTER OF SHEET



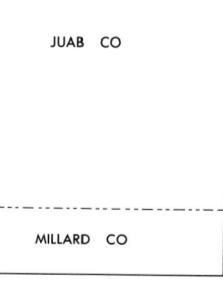
ELEVATION GUIDE



ADJOINING SHEETS



BOUNDARIES



THIS MAP IS RED LIGHT READABLE

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NSA OPERATIONAL HELP DESK: 1-888-456-6896 COMMERCIAL 314-263-4884 DSN 883-4884 OR WRITE TO DIRECTOR, NATIONAL GEOSPATIAL INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP 1-88, 4800 SANGAMORE ROAD, BETHESDA, MD 20815-5002.