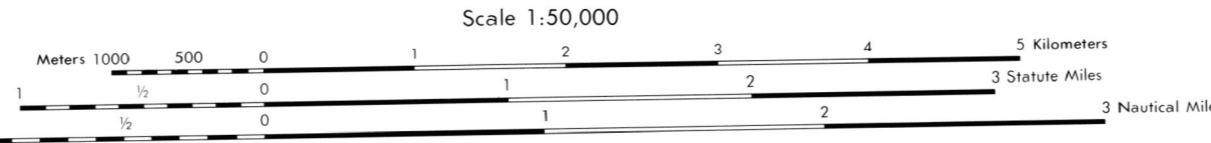


Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

MAP INFORMATION AS OF 1976 AND 1977  
ON THIS MAP, A LANE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS, ONLY THROUGH ROADS ARE CLASSIFIED.

**LEGEND**

	Power transmission line
	Building
	Structure
	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
	Intermittent lake, Dam, Earthen, Masonry
	Stream, Perennial, Intermittent
	Marsh, swamp
	Small rapids, Small falls
	Large rapids, Large falls



Scale 1:50,000

ELEVATIONS IN METERS  
CONTOUR INTERVAL 10 METERS  
SUPPLEMENTARY CONTOURS 5 METERS

SPHEROID ..... CLARKE 1866  
GRID ..... 1,000 METER UTM ZONE 18 BLACK NUMBERED (EAST)  
10,000 FOOT STATE GRID TICKS, KANSAS, NORTH AND SOUTH ZONES  
UNIVERSAL TRANSVERSE MERCATOR  
PROJECTION ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM  
CONTROL BY ..... U.S. AND POLYNESIA  
PREPARED BY ..... U.S. GEOLOGICAL SURVEY

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

**100 METER REFERENCE**

- Read large numbers labeling the VERTICAL grid line to point 12.3
- Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point 45.0

Example: 123456

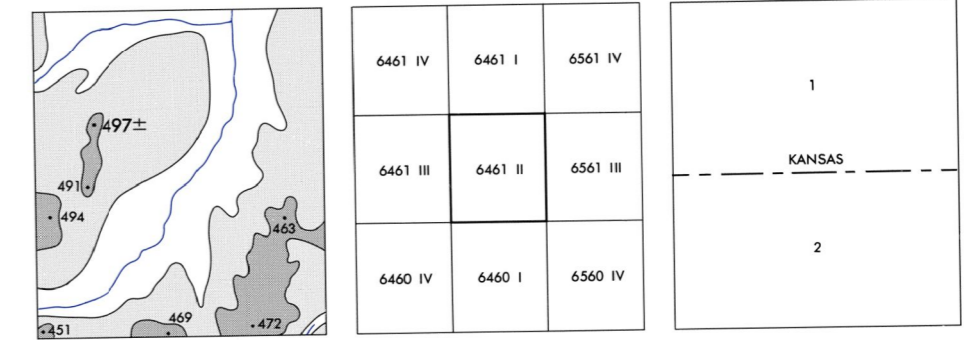
WHEN REPORTING OUTSIDE THE 100,000 METER SQUARE AREA IN WHICH THE POINT LIES, PREFIX THE 100,000 METER SQUARE IDENTIFICATION

Example: P123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION

Example: 14P123456

ELEVATION GUIDE ADJOINING SHEETS BOUNDARIES



6461 IV	6461 I	6561 IV
6461 III	6461 II	6561 III
6460 IV	6460 I	6560 IV

GRID CONVERGENCE 0°31' (15 METERS) FOR CENTER OF SHEET

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

1973 G-M ANGLE 710' (130 METERS)

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NSA OPERATIONAL HELP DESK: 1-800-455-6889; COMMERCIAL: 314-263-4884; OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL INTELLIGENCE AGENCY, ATTN: IS, MAIL STOP 1-8, 4600 SANGAMORE ROAD, BETHESDA, MD 20818-5003

THIS MAP IS RED-LIGHT READABLE