



Manistique Lake MICHIGAN

1:100 000-scale metric topographic map



30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



1985

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1964-1975. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked. Map edited 1985
 Projection and 10 000-meter grid, zone 16, Universal Transverse Mercator
 25 000-foot grid ticks based on Michigan coordinate system, north zone
 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 4 meters north and 5 meters east
 There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet	MAGNETIC		1	2	3	
1	3.2808	↓		1	2	3	
2	6.5617	↓		4	5	6	
3	9.8425	↓		7	8		
4	13.1234	↓					
5	16.4042	↓					
6	19.6850	↓					
7	22.9659	↓					
8	26.2467	↓					
9	29.5276	↓					
10	32.8084	↓					

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1985 magnetic declination (MI) at center of map
 Diagram is approximate

1 Au Sable Point
 2 Two Hearted River
 3 South St. Marie
 4 Munising
 5 South St. Marie
 6 Manistique
 7 Beaver Island
 8 Cheltenham

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 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

USGS NMD HISTORICAL MAP
 NOV 28 1989
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 Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, trail
- Route marker: Interstate, U.S., State
- Railroad: standard gage; narrow gage
- Bridge: overpass; underpass
- Tunnel: road, railroad
- Built up area, locality, elevation
- Airport: landing field; landing strip
- National boundary
- State boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U.S. public lands survey: range, township, section
- Range, township, section line: protracted
- Power transmission line; pipeline
- Open dam with lock
- Cemetery, building
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry; gravel pit
- Campground; picnic area; U.S. location monument
- Ruins; cliff dwelling
- Distorted surface: strip mine, lava, sand
- Contours: index; intermediate; supplementary
- Bathymetric contours: index; intermediate
- Stream, lake: perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard