



# Pointe Aux Barques MICHIGAN-ONTARIO

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



GEOLOGICAL SURVEY

1984  
PHOTOINSPECTED 1988

Produced by the United States Geological Survey  
 Compiled from USGS 1:24 000-scale topographic maps dated 1970. Planimetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1984  
 Projection and 10 000-meter grid, zone 17  
 Universal Transverse Mercator  
 25 000-foot grid ticks based on Michigan coordinate system, south zone  
 1927 North American Datum  
 To place on the predicted North American Datum 1983, move the projection lines 1 meter north and 9 meters west  
 There may be private inholdings within the boundaries of the National or State reservations shown on this map  
 Map photoinspected using 1988 photographs  
 No major culture or drainage changes found

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	1984		4	5	
2	6.5617	1983		6	7	8
3	9.8425	1982		1	Hubbard Lake	
4	13.1234	1981		2	Tawas City	
5	16.4042	1980		3	Bay City	
6	19.6850	1979		4	Harbor Beach	
7	22.9659	1978				
8	26.2467	1977				
9	29.5276	1976				
10	32.8084	1975				

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

UTM grid convergence (GN) and 1984 magnetic declination (MD) at center of map  
 Diagram is approximate

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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, constructed
- Power transmission line; pipeline
- Dam: 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
- Disturbed 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 foundation, woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request