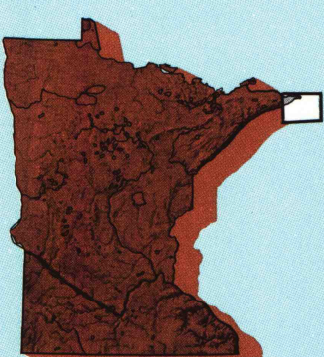


Grand Portage

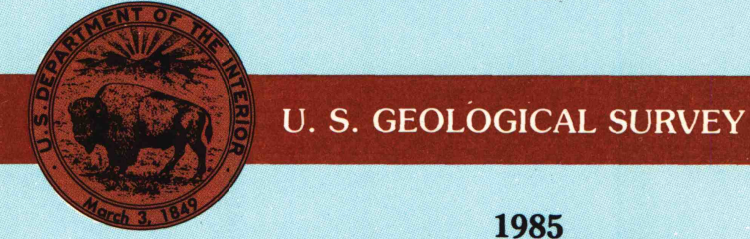
MINNESOTA-MICHIGAN-ONTARIO

1:100 000-scale metric topographic map



30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1957-1985. Planimetry revised from aerial photographs taken 1982-84 and other source data. Revised information not field checked. Map edited 1985
Canadian portion copied from Department of Energy, Mines and Resources, 1:50,000-scale topographic maps dated 1975
Canadian portion of this map © by Her Majesty the Queen in Right of Canada, and may not be reproduced or redistributed without express consent of Energy, Mines and Resources Canada, 4th Floor, 615 Booth Street, Ottawa, Ontario, K1A 0G9
1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 16
25 000-foot ticks. Michigan coordinate system, and Minnesota coordinate system, north zones
The difference between NAD 27 and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875
There may be private inholdings within the boundaries of the National or State reservations shown on this map
The U.S. portion of this map photoinspected using 1991 photographs
No major culture or drainage changes found
CONTOUR INTERVAL 10 METERS IN UNITED STATES
CONTOUR INTERVAL 50 FEET IN CANADA
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER IN UNITED STATES
ELEVATIONS SHOWN TO THE NEAREST FOOT IN CANADA
THE U.S. PORTION OF THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS																	
Meters	Feet		1	2	3															
1	3.2808		1	2	3															
2	6.5617		4	5																
3	9.8425																			
4	13.1234		6	7	8															
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		UTM grid convergence (GN) and 1985 magnetic declination (MN) at center of map Diagram is approximate	<table><tr><td>1</td><td>Saganaga Lake</td></tr><tr><td>2</td><td>Pigeon Point</td></tr><tr><td>3</td><td>Todd Harbor</td></tr><tr><td>4</td><td>Grand Marais</td></tr><tr><td>5</td><td>Siskiwit Bay</td></tr><tr><td>6</td><td>Outer Island</td></tr><tr><td>8</td><td>Hancock</td></tr></table>				1	Saganaga Lake	2	Pigeon Point	3	Todd Harbor	4	Grand Marais	5	Siskiwit Bay	6	Outer Island	8	Hancock
1	Saganaga Lake																			
2	Pigeon Point																			
3	Todd Harbor																			
4	Grand Marais																			
5	Siskiwit Bay																			
6	Outer Island																			
8	Hancock																			
To convert feet to meters multiply by 0.3048																				

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University of Wisconsin
Madison
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
- Civil township 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
- 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
- Barometric 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

A pamphlet describing topographic maps is available on request



GRAND PORTAGE, MINNESOTA-ONTARIO
47089-E1-TM-100
1985
PHOTOINSPECTED 1991

Box - 9/8.02 SET