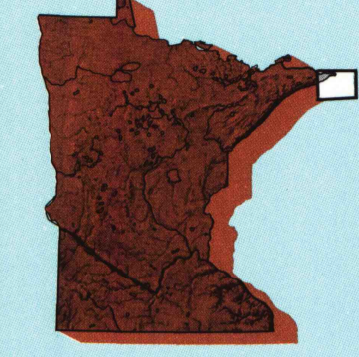


Grand Portage

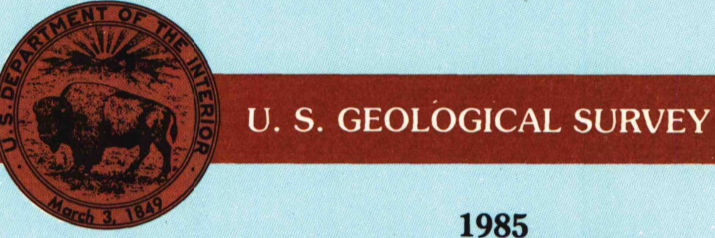
MINNESOTA-MICHIGAN
ONTARIO

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



U. S. GEOLOGICAL SURVEY

1985
PHOTOINSPECTED 1991

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 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 0E5.
 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

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
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

Declination	1	2	3
1	1	2	3
4	4	5	
6	6	7	8

1 Sauganaga Lake
 2 Pigeon Point
 3 Todd Harbor
 4 Grand Marais
 5 Stakwit Bay
 6 Outer Island
 7 Hancock

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

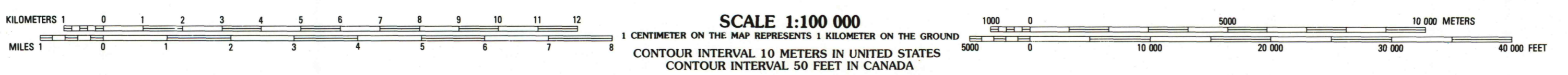
A.H. ROBINSON
 MAP LIBRARY
 AUG 29 1994

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 Depository Copy
 DO NOT DISCARD

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: salt 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

A pamphlet describing topographic maps is available on request



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

Bo06-9/8.02 SET