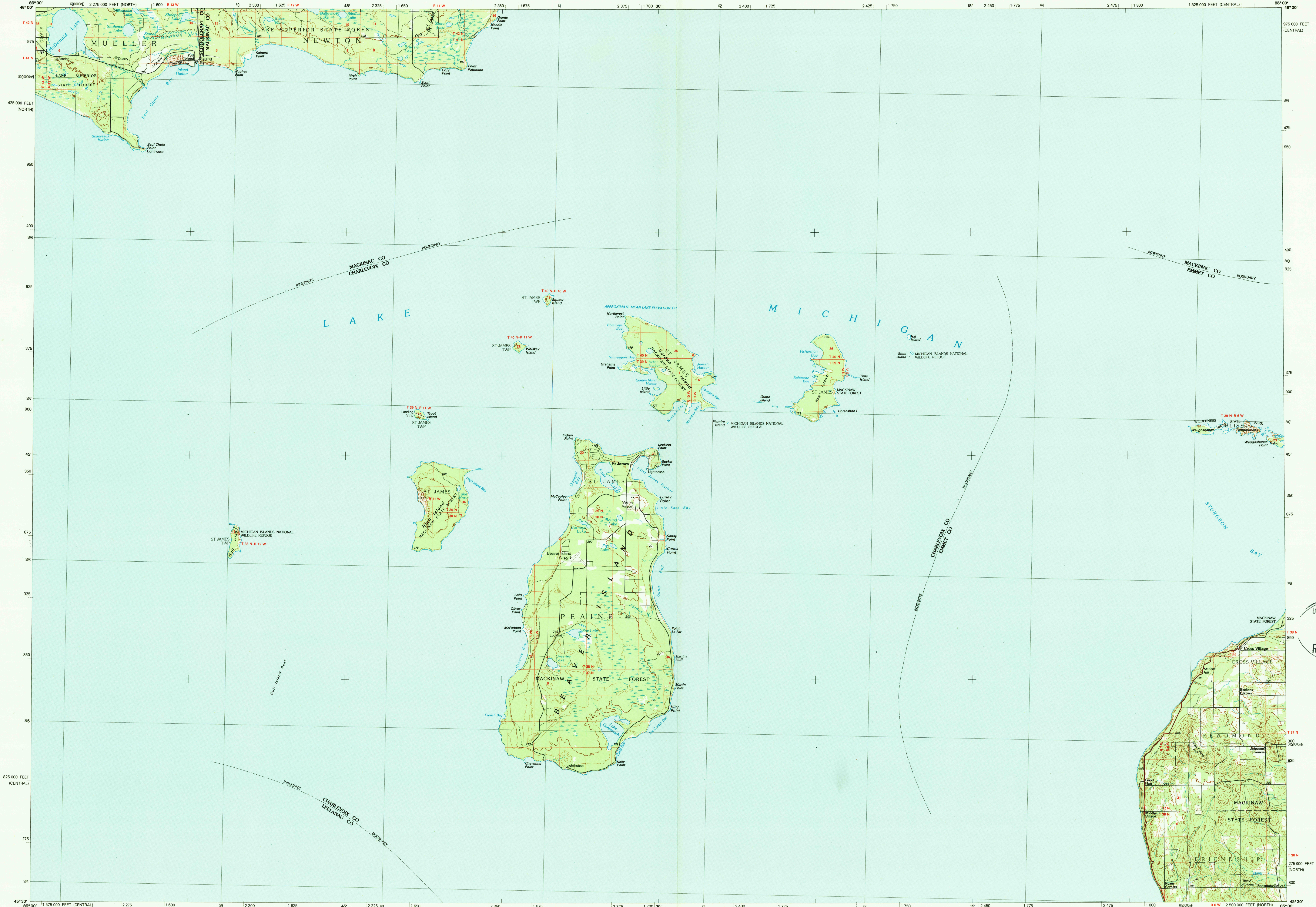


BEAVER ISLAND, MICHIGAN

30 X 60 MINUTE SERIES (TOPOGRAPHIC)



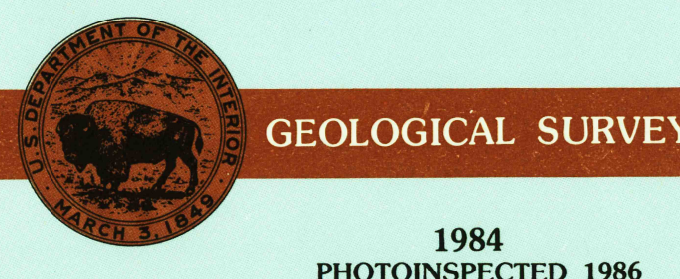
Beaver Island MICHIGAN

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



GEOLOGICAL SURVEY

1984 PHOTOINSPECTED 1986

Produced by the United States Geological Survey  
 Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1955-1982. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1984  
 Projection and 10 000-meter grid, zone 16, Universal Transverse Mercator  
 25 000-foot grid ticks based on Michigan coordinate system, central and north zones  
 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  
 Map photolithographed using 1986 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

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 DIAGRAM	ADJOINING MAPS									
	<table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> </table>	1	2	3	4	5	6	7	8	9
1	2	3								
4	5	6								
7	8	9								

UTM grid convergence (GM) and 1983 magnetic declination (MD) at center of map  
 Diagram is approximate

1 Munising  
 2 Manistique Lake  
 3 Sauk St. Marie  
 4 Manistigoue  
 5 Chubboggan  
 6 Washington Island  
 7 Charlevoix  
 8 Petokey

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

USGS NMD HISTORICAL MAP  
JAN 24 1990  
REC'D FILE COPY

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
- Dam; dam with lock
- Cemetery; building
- Windmill; water well; spring
- Mine shaft; add 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
- 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

