INDIANA

NATIONAL PARK SERIES (TOPOGRAPHIC)

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1980

SCALE 1:50 000

1 CENTIMETER ON THE MAP REPRESENTS 500 METERS ON THE GROUND

CONTOUR INTERVAL 3 METERS

Produced by the United States Geological Survey
in cooperation with the National Park Service

Control by USGS and NOS/NOAA

Compiled from 1:24 000-scale maps. Revised from aerial photographs taken 1977. Field checked 1979. Map edited 1980

Selected hydrographic data compiled from NOS chart 14905 (1979)
This information is not intended for navigational purposes

Projection and 5000-meter grid ticks, zone 16: Universal Transverse Mercator
10,000-foot grid based on Indiana coordinate system, west zone. 1927 North American Datum

There are existing structures and roads within the boundaries of the National Lakeshore not shown on this map; these are in the process of acquisition by the Lakeshore and will eventually be removed

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST METER
DEPTH CURVES AND SOUNDINGS SHOWN IN METERS

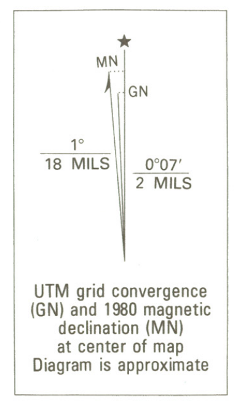
CONVERSION TABLE

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



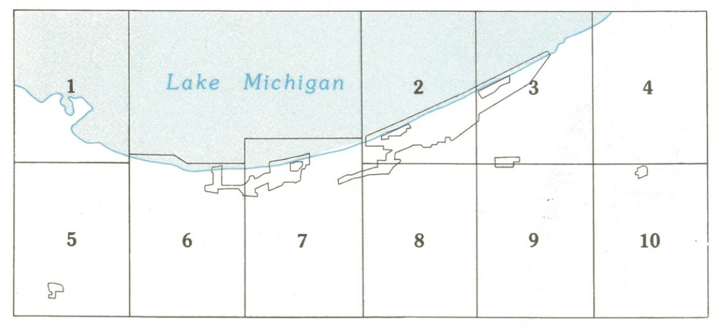
UTM grid convergence (GN) and 1980 magnetic declination (MN) at center of map
Diagram is approximate

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Map Symbols

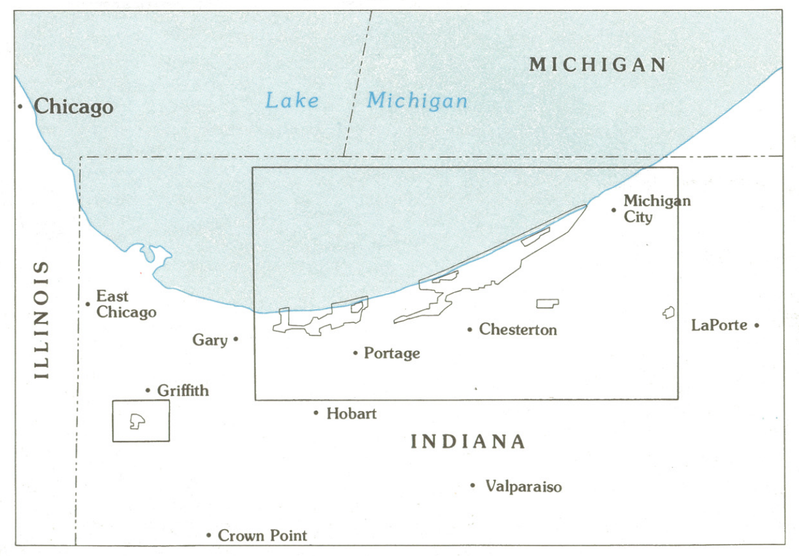
- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Unimproved road; trail
- Route marker: Interstate; U. S.; State
- Railroad: standard gage; narrow gage
- Bridge; drawbridge
- Footbridge; overpass; underpass
- Built-up area: only selected landmark buildings shown
- House; barn; church; school; large structure
- Boundary:
  - National, with monument
  - State
  - County, parish
  - Civil township, precinct, district
  - Incorporated city, village, town
  - National or State reservation; small park
  - Land grant with monument; found section corner
  - U. S. public lands survey: range, township; section
  - Range, township; section line: location approximate
- Fence of field line
- Power transmission line, located tower
- Dam; dam with lock
- Cemetery; grave — Cem
- Campground; picnic area; U. S. location monument
- Windmill; waterwell; spring
- Mine shaft; prospect; adit or cave
- Control: horizontal station; vertical station; spot elevation
- Contours: index; intermediate; supplementary; depression
- Distorted surface: strip mine, lava; sand
- Sounding; depth curve — 5
- Perennial lake and stream; intermittent lake and stream
- Rapids, large and small; falls, large and small
- Swamp; marsh
- Submerged marsh; land subject to controlled inundation
- Woodland; scattered trees
- Scrub; mangrove
- Orchard; vineyard

INDEX TO 1:24 000-SCALE MAPS

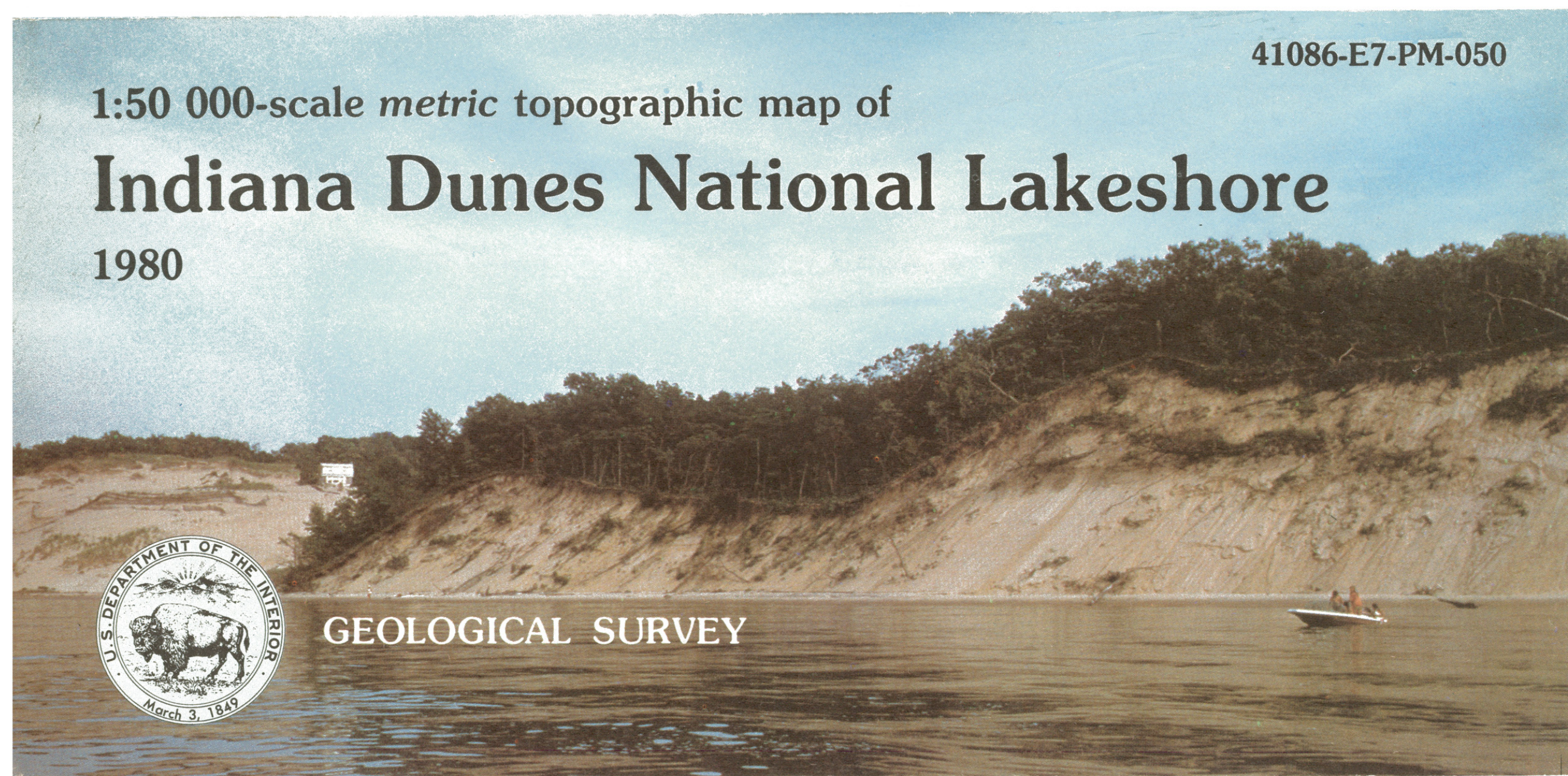


1 Whiting—1953–68
2 Dune Acres—1953–68
3 Michigan City West—1953–69
4 Michigan City East—1958–69
5 Highland—1952–68
6 Gary—1953–68
7 Portage—1953–68
8 Chesterton—1953–62
9 Westville—1953–69
10 La Porte West—1961–69

LOCATION MAP



FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092



41086-E7-PM-050

1:50 000-scale *metric* topographic map of

Indiana Dunes National Lakeshore

1980

GEOLOGICAL SURVEY