



PRODUCED BY THE U. S. GEOLOGICAL SURVEY
Base map prepared by Defense Mapping Agency by photogrammetric methods and from U. S. Lake Survey chart No. 75, 1954. Aerial photographs taken 1952. Field checked 1953. Revised by the U. S. Geological Survey from aerial photographs taken 1970 and 1979 and other sources data. Revised information not field checked. Map edited 1983.
Transverse Mercator Projection. 100,000-meter Universal Transverse Mercator grid, zone 16. 100,000-foot grid ticks based on Indiana coordinate system, west zone; Illinois coordinate system, east zone, and 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 3 meters east.
Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram. There may be private inholdings within boundaries of the National or State reservations shown on this map.

LEGEND

Figures in red denote approximate distances in miles between stars

POPULATED PLACES

Over 500,000
100,000 to 500,000
25,000 to 100,000
5,000 to 25,000
1,000 to 5,000
Less than 1,000

ROADS

Primary, all-weather, hard surface
Secondary, all-weather, hard surface
Light-duty, all-weather, hard or improved surface
Fair or dry weather, unimproved surface
Trail
Interchange
Route markers: Interstate, U.S., State
Landmarks: School; Church; Other

RAILROADS

Single track double or multiple
Standard gauge
Narrow gauge
Standard gauge
Landplane airport
Landing area
Seaplane airport
Seaplane anchorage
County
State
Park or reservation
Power line
Spot elevation in feet
221 Woods brushwood

WATER

Primary, all-weather, hard surface
Secondary, all-weather, hard surface
Light-duty, all-weather, hard or improved surface
Fair or dry weather, unimproved surface
Trail
Interchange
Route markers: Interstate, U.S., State
Landmarks: School; Church; Other
Depth curve in feet
Limit of danger: Reef
Rocks: Awash
Foresore flat
Intermittent or dry stream
Marsh or swamp

Scale 1:250,000

0 5 10 15 20 25 30 Statute Miles

0 5 10 15 20 25 30 Nautical Miles

CONTOUR INTERVAL 50 FEET

1983 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 0° FOR THE CENTER OF THE WEST EDGE TO 2°14' WESTERLY FOR THE CENTER OF THE EAST EDGE

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

LOCATION DIAGRAM

44°30' 44°00' 43°30' 43°00' 42°30' 42°00' 41°30' 41°00' 40°30' 40°00' 39°30' 39°00'

90° 95° 100° 105° 110° 115° 120° 125° 130° 135° 140° 145° 150° 155° 160° 165° 170° 175° 180°

LAKE SUPERIOR LAKE MICHIGAN LAKE HURON LAKE ERIE LAKE ONTARIO

MINNESOTA WISCONSIN ILLINOIS INDIANA OHIO MICHIGAN

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SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1. Read letters identifying 100,000 meter squares in which the point lies.
2. Locate first vertical grid line to left of point and read letter.
3. Estimate tenths from grid line to point.
4. Locate first horizontal grid line below point and read letter.
5. Estimate tenths from grid line to point.
6. Estimate tenths from grid line to point.
7. Estimate tenths from grid line to point.
8. Estimate tenths from grid line to point.
9. Estimate tenths from grid line to point.
10. Estimate tenths from grid line to point.

GRID ZONE DESIGNATION

16T

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METERS

SAMPLE POINT - BEAMS

DB	EB	EA
DA	EA	

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