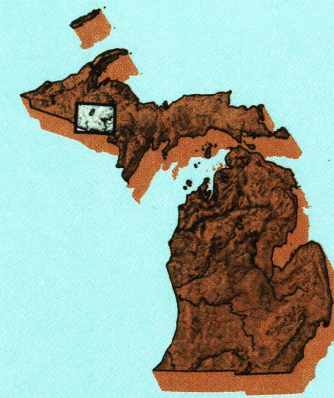
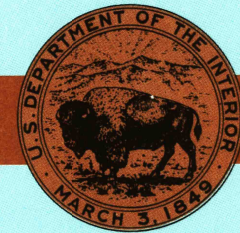




- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1944-1985. Planimetry revised from aerial photographs taken 1986 and other source data. Revised information not field checked. Map edited 1989

Projection and 10 000-meter grid, zone 16,
Universal Transverse Mercator
25 000-foot grid ticks based on Michigan coordinate system,
north zone and Wisconsin coordinate system, north zone
1927 North American Datum
To place on the predicted North American Datum 1983, move
the projection lines 8 meters north and 9 meters east
There may be private inholdings within the boundaries of
the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE

Meters	Fathoms
1	3.2808
2	4.3811
3	5.4865
4	6.5613
5	7.6755
6	8.6880
7	9.2699
8	10.2467
9	10.2576
10	12.3694

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

Diagram shows magnetic north (MN) and true north (GN) with an angle of 10°. Scale bars indicate 36 MILS and 19 MILS.

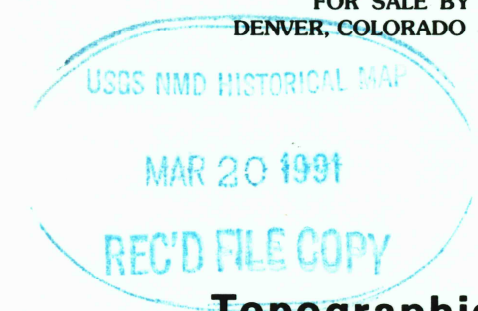
UTM grid convergence (IGN and 1988 magnetic declination) (MN) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4	5	6
7	8	9

- 1 Ontonagon
- 2 L'Anse
- 3 Marquette
- 4 Wardsville
- 5 Guelin
- 6 Rhineland
- 7 Iron Mountain
- 8 Escanaba

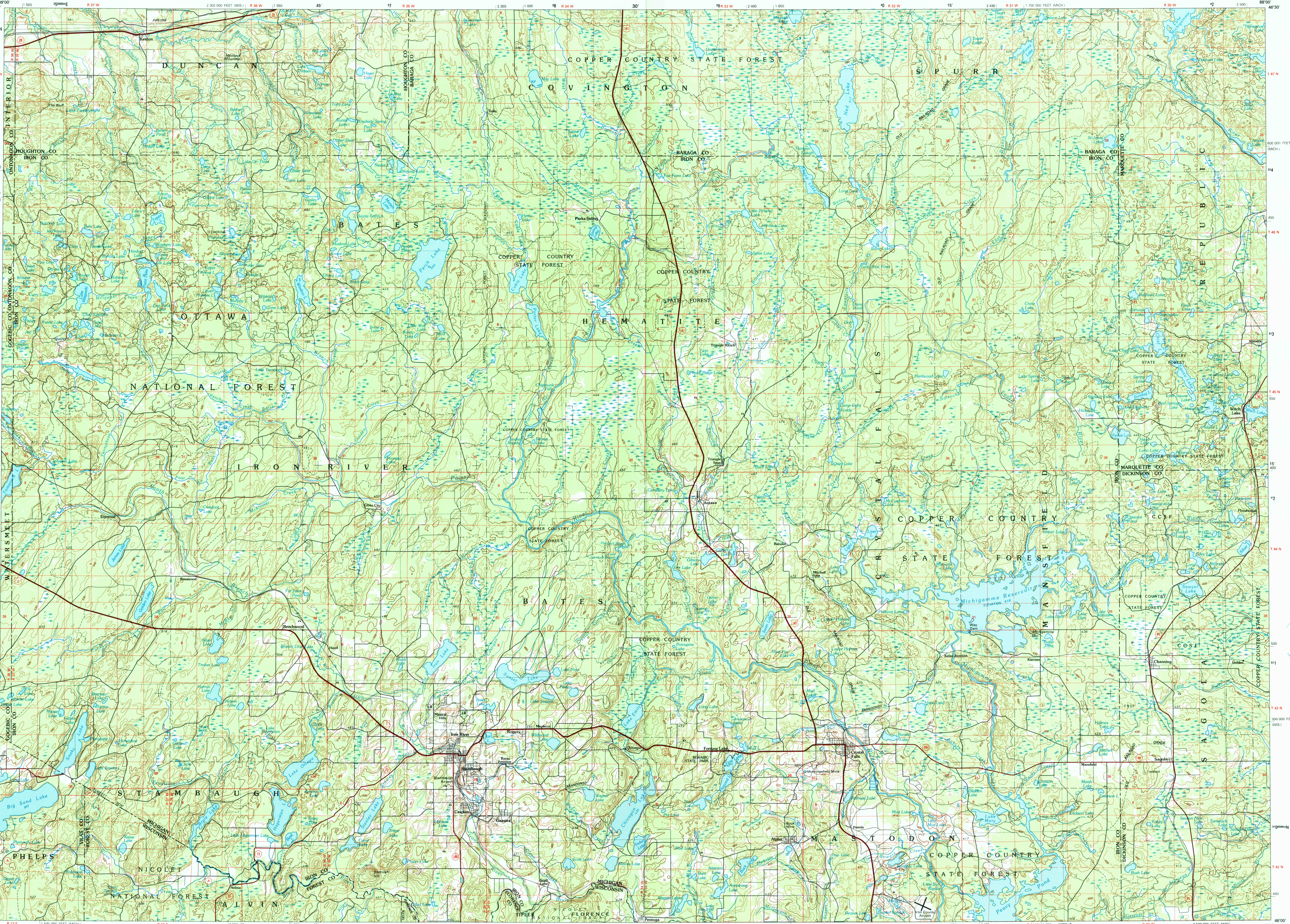
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092



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; old or cave; mine, quarry; gravel pit	
Campground; picnic area; U.S. location monument	
Ruins; cliff dwelling	
Distorted or eroded strip mine, lava; sand	
Contours: index; intermediate; supplementary	
Stream; lake; perennial; index; intermediate	
Bayou; intermittent; intermittent	
Rapids, large and small; falls, large and small	
Area to be submerged; marsh, swamp	
Land subject to: controlled inundation; woodland	
Sand; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request.



● INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1220

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SCALE 1:100 000

ON THE MAP REPRESENTS 1 KILOMETER OF
CONTOUR INTERVAL 10 METERS

1000

IRON RIVER, MICHIGAN-WISCONSIN

46088-A1-TM-100
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1989