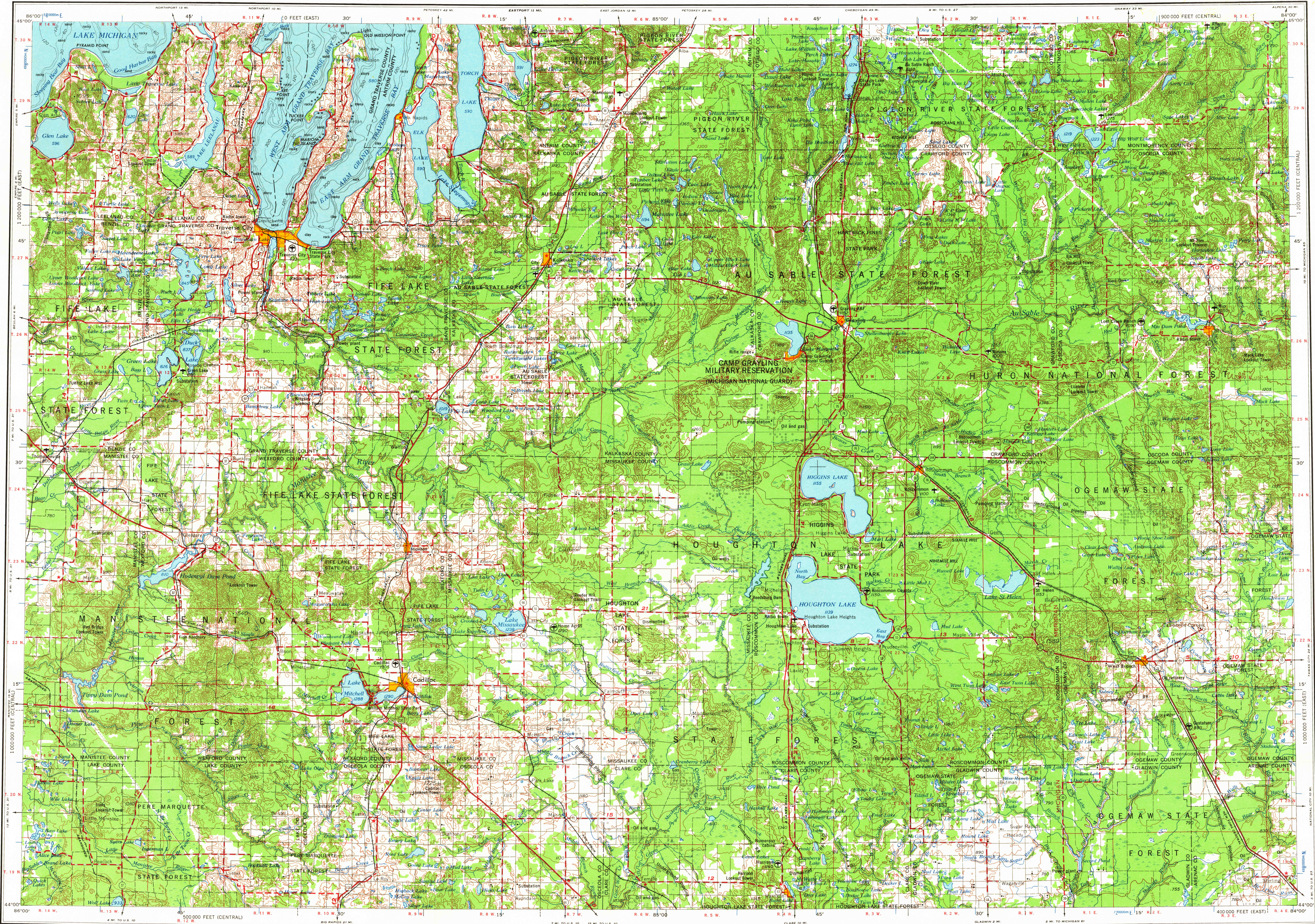




Prepared by the Army Map Service (BEG), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1955 by photogrammetric methods and from U.S. Lake Survey Charts 705 and 706, 1953 (reliability good). Horizontal and vertical control by USGS, USC&GS and USCE. Aerial photography 1953. Photography field annotated 1954. Limited revision by U.S. Geological Survey, 1964.

100,000-foot grids based on Michigan coordinate system, central and east zones

10,000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue

**LEGEND**

**ROAD DATA 1954 PARTIALLY REVISED 1964**  
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 |
|--------------|--------------------|-------------------|-----------------|----------------|-----------------|

**BOUNDARIES**

|               |       |        |                     |                          |                        |
|---------------|-------|--------|---------------------|--------------------------|------------------------|
| International | State | County | Park or reservation | Horizontal control point | Spot elevation in feet |
|---------------|-------|--------|---------------------|--------------------------|------------------------|

**RAILROADS**

|                |              |
|----------------|--------------|
| Standard gauge | Narrow gauge |
|----------------|--------------|

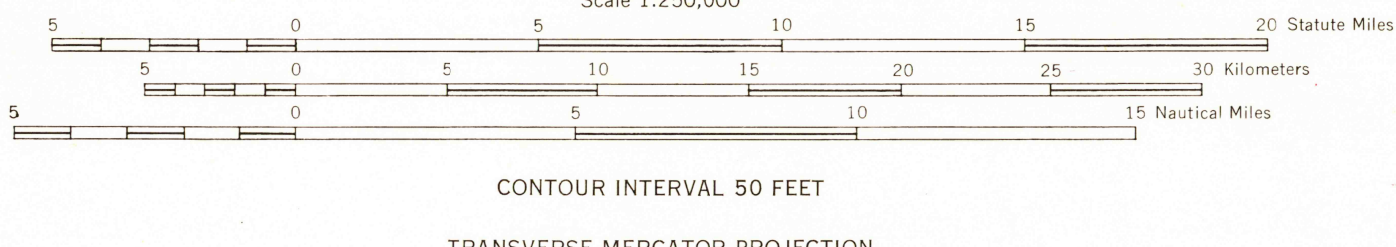
**LANDMARKS**

|                   |              |                  |                    |            |                 |                |
|-------------------|--------------|------------------|--------------------|------------|-----------------|----------------|
| Landplane airport | Landing area | Seaplane airport | Seaplane anchorage | Power line | Woods brushwood | Marsh or swamp |
|-------------------|--------------|------------------|--------------------|------------|-----------------|----------------|

**Other symbols:**

|                          |                          |                                      |                           |                          |                                                 |                     |                 |       |                                  |                     |                       |                      |                |                            |                |
|--------------------------|--------------------------|--------------------------------------|---------------------------|--------------------------|-------------------------------------------------|---------------------|-----------------|-------|----------------------------------|---------------------|-----------------------|----------------------|----------------|----------------------------|----------------|
| Hard surface, heavy duty | More than two lanes wide | Two lanes wide: Federal route marker | Hard surface, medium duty | More than two lanes wide | Two lanes wide: State, Interstate route markers | Improved light duty | Unimproved dirt | Trail | Landmarks: School; Church; Other | Depth curve in feet | Limit of danger: Reef | Rocks: Awash; Sunken | Foreshore flat | Intermittent or dry stream | Marsh or swamp |
|--------------------------|--------------------------|--------------------------------------|---------------------------|--------------------------|-------------------------------------------------|---------------------|-----------------|-------|----------------------------------|---------------------|-----------------------|----------------------|----------------|----------------------------|----------------|

**Approximate road alignment**



1960 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 1° 45' WESTERLY FOR THE CENTER OF THE WEST EDGE TO 4° 00' WESTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS NEGLECTABLE.

FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

**LOCATION DIAGRAM FOR NL 16-12**

U.S.G.S. FILE COPY TOPOGRAPHIC DIVISION

**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 |

TRAVERSE CITY, MICHIGAN

1954

LIMITED REVISION 1964