



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROL BY USGS AND NOS/NOAA  
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN ..... 1977  
FIELD CHECKED ..... 1979. MAP EDITED ..... 1983  
PROJECTION ..... UNIVERSAL TRANSVERSE MERCATOR  
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ..... ZONE 16  
10,000-FOOT STATE GRID TICKS ..... MICHIGAN, CENTRAL ZONE  
UTM GRID DECLINATION ..... 1956 EAST  
1983 MAGNETIC NORTH DECLINATION ..... 730 WEST  
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929  
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM  
To place on the predicted North American Datum of 1983,  
move the projection lines as shown by dashed corner ticks  
(3 meters north and 2 meters east)  
There may be private holdings within the boundaries of any  
Federal and State reservations shown on this map

**PROVISIONAL MAP**  
Produced from original  
manuscript drawings. Informa-  
tion shown as of date of  
field check.



CONTOUR INTERVAL 5 METERS  
SUPPLEMENTAL CONTOUR INTERVAL 1.5 METERS ALONG SHORELINE  
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER  
OTHER ELEVATIONS SHOWN TO THE NEAREST METER  
To convert meters to feet multiply by 3.2808  
To convert feet to meters multiply by .3048

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092  
AND THE GEOLOGICAL SURVEY DIVISION  
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 48909



QUADRANGLE LOCATION

1	2	3	1 Leland
4	5	6	2 Gills Pier
7	8	9	3 Onawa
			4 Good Harbor Bay
			5 Mapleton
			6 Maple City
			7 Traverse City SW
			8 Traverse City SE

ADJOINING 7.5 QUADRANGLE NAMES  
CONTOURS AND ELEVATIONS  
IN METERS

ROAD LEGEND  
Improved Road .....  
Unimproved Road .....  
Trail .....  
Interstate Route ..... U. S. Route ..... State Route .....

**SUTTONS BAY, MICHIGAN**  
PROVISIONAL EDITION 1983

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RECEIVED  
OCT 31 1998  
USGS NMD  
HISTORICAL MAP ARCHIVES

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