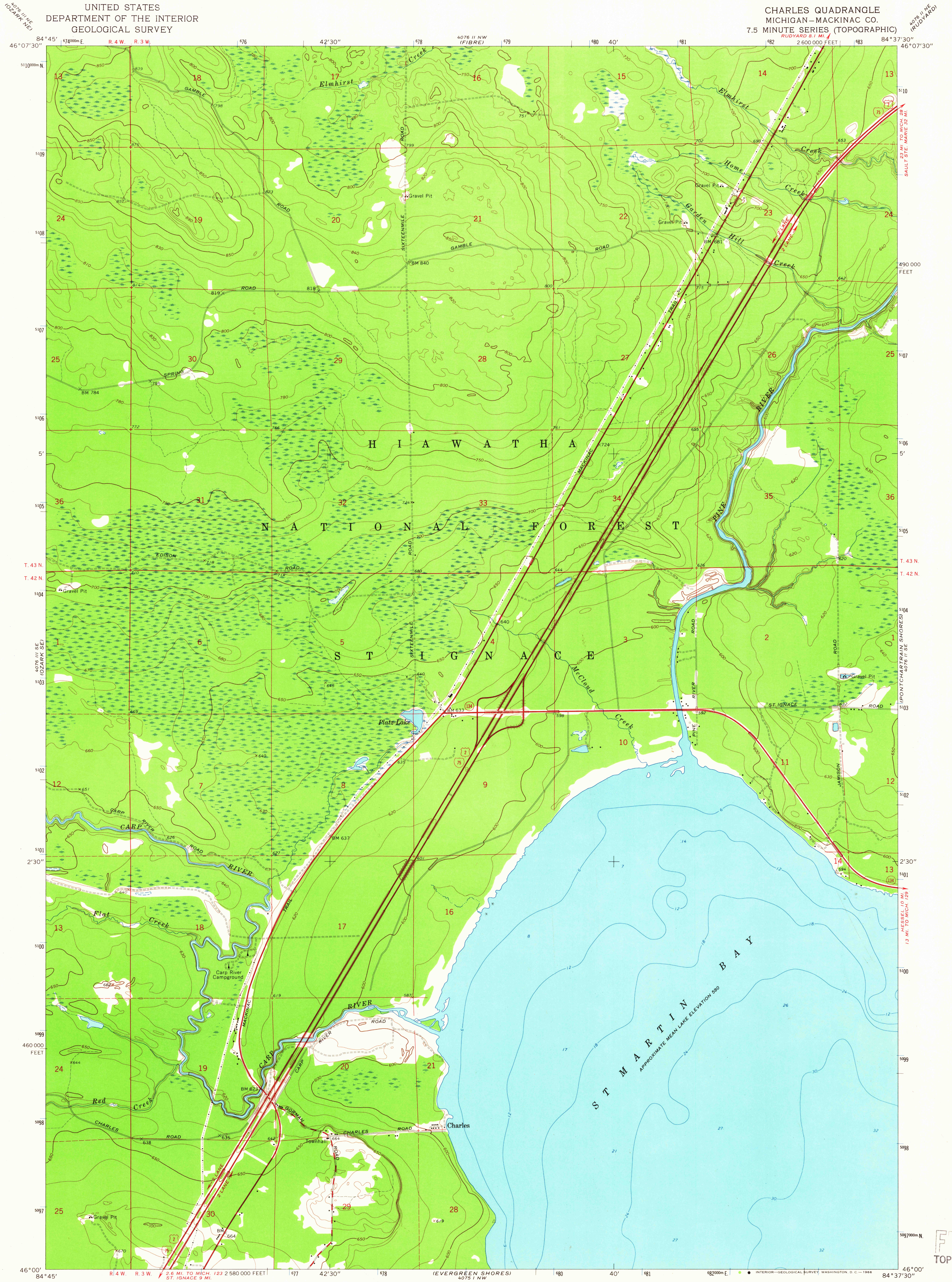
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHARLES QUADRANGLE
MICHIGAN—MACKINAC CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1966

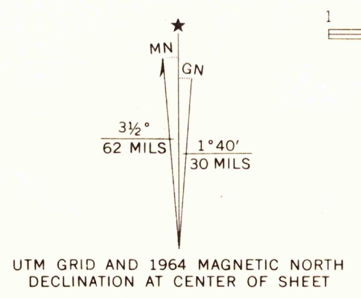
Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and U. S. Lake Survey

Topography by photogrammetric methods from aerial photographs taken 1954–56 and 1964. Field checked 1964

Selected hydrographic data compiled from U. S. Lake Survey Chart 60 (1961). This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum
10,000-foot grid based on Michigan coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue



UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS LOW WATER 578.5 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

USGS
Historical File
Topographic Division

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty	🟥	Light-duty	═
Medium-duty	▬	Unimproved dirt	╌
○ Interstate Route	○ U. S. Route	○ State Route	

CHARLES, MICH.
N4600—W8437.5/7.5

1964

AMS 4076 II SW—SERIES V862

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MAR 1966