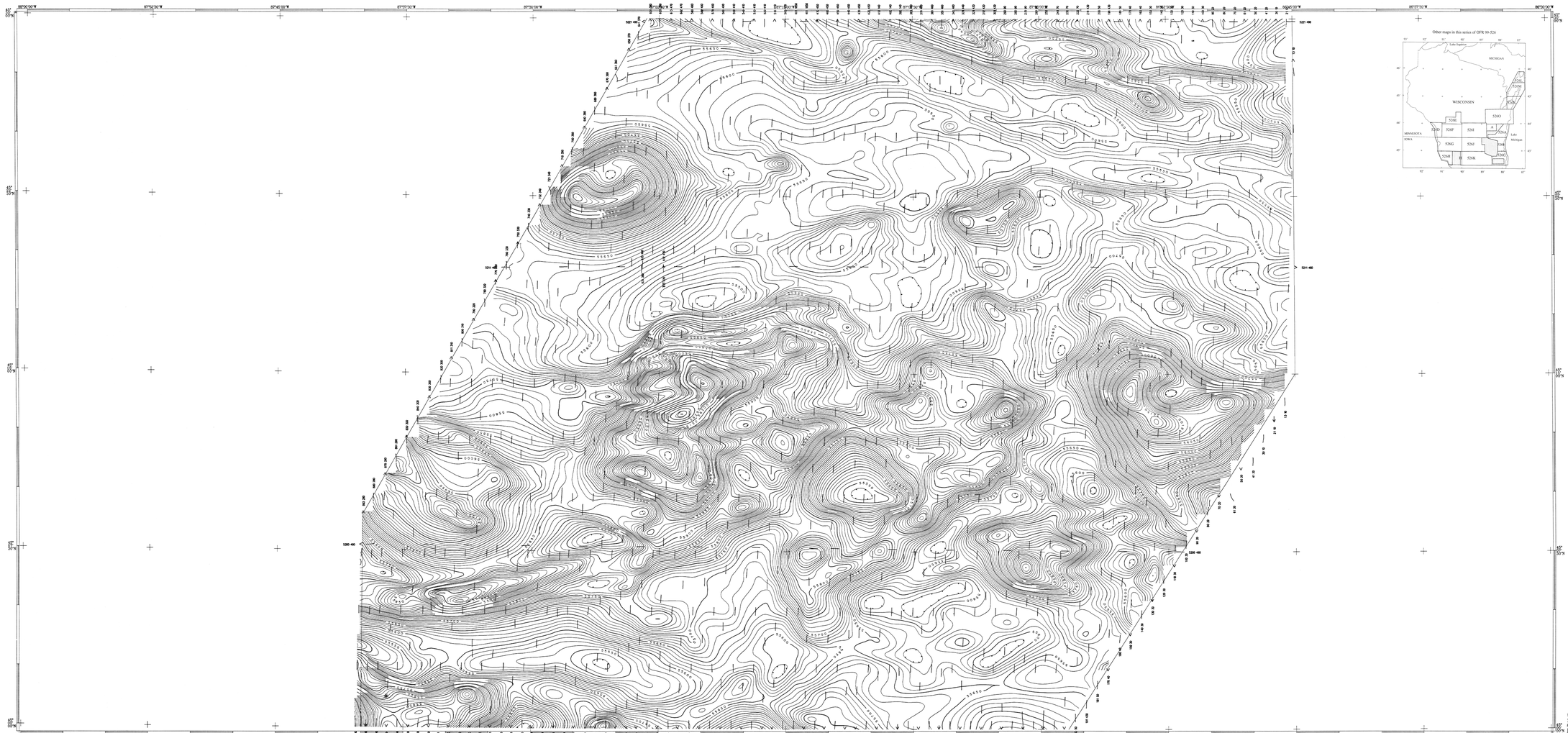
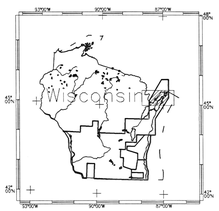
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT 99 - 526m





SURVEY SPECIFICATIONS	
Aircraft Altitude:	300m. a.g.l.
Sensor Altitude:	300m. a.g.l.
Line Spacing:	805m. Traverse / variable Control
Flight Direction:	N–S Traverse / E–W Control

AIRCRAFT	
Aviation Company:	Brucelandair International
Manufacturer/Type:	Cessna 206 (C–GNNN)
Survey Speed:	220 km/hr

EQUIPMENT

High–Sense GFCS II geophysical flight control system with the following sensors installed in the aircraft:

Magnetometer:	Scintrex CS2 cesium
Radar Altimeter:	Terra 3000
GPS Navigation:	Novatel 3751 12 channel

COMPILATION

FLIGHT PATH:

GPS data recorded during the flight has been differentially corrected and transformed to correspond to the Clarke 1866 (NM027), Mean Cont. USA coordinate system.
Spheroid: Clarke 1866 a=6378206.4 b=6356583.8
Projection: Universal Transverse Mercator
Local Datum Shift: Δx Δy Δz = 8 –160 –176
Central Meridian: 87°W
False Easting/Northing: 500,000 m. 0 m.

Line Number 9020 2 Flight Number — Direction Indicator — Fiducial

Note: Reproduction for open-file may introduce minor errors in scale and projection.

MAGNETICS:

The magnetic data has been corrected for diurnal variation by a process of base station subtraction.
Heading errors have been eliminated by control–line levelling.

The grid interval is:	150 metres
The contour intervals are:	10, 50, 250 nT

*: LATITUDE: 45.01974° NORTH
LONGITUDE: 87.64149° WEST
RAW MAG: 57278.04 nT
IGRF'D MAG: –402.50 nT
DATE: 98–10–09
TIME: 21:50:19 UTC

AEROMAGNETIC SURVEY OF PARTS OF THE MARINETTE AND WASHINGTON ISLAND 1:100,000 QUADRANGLES, WISCONSIN AND MICHIGAN

BY

U.S. GEOLOGICAL SURVEY
1999

High–Sense Geophysics Ltd.
50 West Beaver Creek
Richmond Hill, Canada
L4B 1S5

Scale 1:100,000

10000 0 10000 20000 (feet)

2500 0 2500 5000 7500 (metres)

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards, nor use of trade, firm or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

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