

EXPLANATION

Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented were calculated at 39° 0' N
Latitude and 122° 30' W Longitude at an
altitude of 974 m (3197 ft).
Use diagram for reference only

Grid North-True North: 0° 19' 0"
Grid North-Magnetic North: 16° 24'

Inclination 62° 33' 36"

Declination rate of change -0° 3' 0"
Inclination rate of change -0° 1' 12"
per year from 1985.2

FLIGHT PATH

Navigation and flight path recovery
were conducted using a Global Positioning
System (GPS) satellite navigation system.

Traverse lines were flown at an azimuth of
90°-270° with an average line spacing of 400 m (1320 ft).

Lines flown at nominal terrain clearance of 305 m (1000 ft).
Actual survey lines have an average aircraft terrain clearance
of 543 m (1782 ft). Terrain clearance was monitored by
radar and barometric altimeters.

Flight line identification numbers are shown along
southwest edge of map area and at a limited number
of locations interior to the map. Tie line identification
numbers are shown along the north edge
of the map area.

TOTAL FIELD MAGNETIC DATA

Total field magnetic intensity data were measured
by a tall stinger mounted Scintrex H8 optically pumped
cesium vapour magnetometer with RMS
AADC04 compensator.

Data have been corrected for diurnal variations
using a magnetic base station and tie lines.

Residual magnetic data shown by contours
represent corrected total field magnetic intensity
minus the International Geomagnetic Reference Field (IGRF).

The total intensity magnetic value at 18:22:00 on March
25, 1995 (38° 42' 40.2" Latitude, 122° 25' 28.4" Longitude)
is 50686.78 nT less than before the IGRF removal.

Gridding interval is 100m X 100m
and gridding direction is 161°.

Map contours are in nanoTeslas (nT),
and are multiples of those listed below:

2 nT
10 nT
50 nT
250 nT
1250 nT

H Magnetic: high
L Magnetic: low

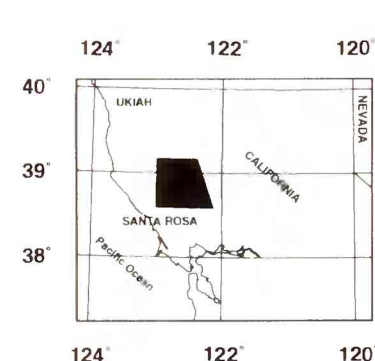
[Hachures (▼) indicate closed lows]

SCALE 1:100 000

2.5 0 1 2 3 10 km

AEROMAGNETIC MAP OF THE
CLEAR LAKE REGION
ON PARTS OF THE
SANTA ROSA AND UKIAH 1° BY 2° QUADRANGLES,
CALIFORNIA

BY
U. S. GEOLOGICAL SURVEY
1996



SURVEY LOCATION

This map is preliminary and has not been reviewed for conformity with U.S. Geological
Survey editorial standards or with the North American Stratigraphic Code. Any use of
trade, firm or product names is for descriptive purposes only and does not imply
endorsement by the U.S. Government.

Projection: UTM 1983 North American datum
Central meridian: 123° West
Survey flown February and March, 1996
Flown and compiled by AERODAT, Inc.,
Mississauga, Ontario, Canada