

AEROMAGNETIC MAP OF THE
SCOTTS MILLS AREA ON THE
VANCOUVER AND SALEM
1° BY 2° QUADRANGLES,
OREGON

BY
U. S. GEOLOGICAL SURVEY
1996

EXPLANATION



Square: Grid North
Star: True North
Arrow: Magnetic North
Angles presented were calculated at 45° 0' N
Latitude and 122° 45' W Longitude at an
altitude of 635 m (2080 ft).
Use diagram for reference only.
Grid North-True North: 0° 21' 00"
Grid North-Magnetic North: 18° 22' 24"
Inclination 67° 28' 12"
Declination rate of change -0° 4' 48"
Inclination rate of change 0° 1' 12"
per year from 1995.25

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).
Survey lines flown at nominal terrain clearance of 305 m (1000 ft)
and have an average aircraft terrain clearance of 408 m (1340 ft).
Terrain clearance was monitored by radar and barometric altimeters.
Flight line identification numbers are shown along west edge of map area.
The 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 tail stinger
mounted Scintrex H8 optically pumped cesium vapour magnetometer
with RMS AADCO 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 18:51:00 on March 30, 1995 (44° 47' 4.1" Latitude,
122° 42' 38.9" Longitude) is 54057.67 nT less than before the IGRF removal.

Gridding interval is 100m X 100m and gridding direction is 169°.

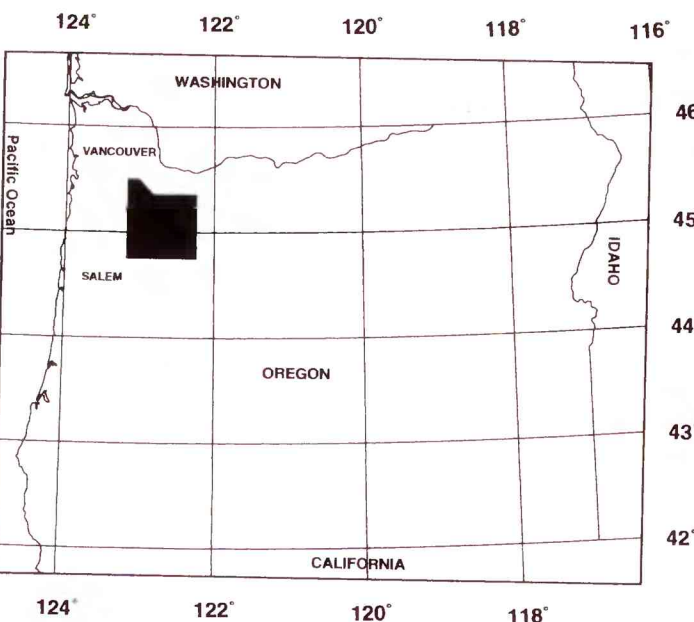
Map contours are in nanoTeslas (nT), and are multiples of those listed below:

- 5 nT
- 25 nT
- 125 nT
- 500 nT
- 2500 nT

H Magnetic high

L Magnetic low

[Hachures (▼) indicate closed lows]



SURVEY LOCATION

SCALE 1:100 000
2.5 0 1 2 5 10 km

Projection: UTM 1983 North American datum
Central meridian: 123° West
Survey flown: April 1995
Flown and compiled by AERODAT, Inc.,
Mississauga, Ontario, Canada

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