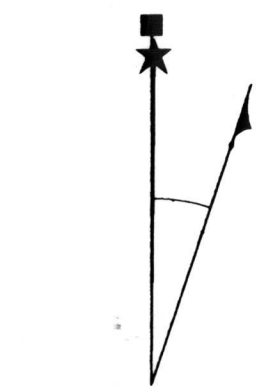


**AEROMAGNETIC MAP OF THE  
ROSEBURG AREA  
ON PARTS OF THE  
ROSEBURG, COOS BAY,  
MEDFORD, AND CAPE BLANCO  
1° BY 2° QUADRANGLES,  
OREGON**

**SHEET 1**

**BY  
U. S. GEOLOGICAL SURVEY  
1996**

**EXPLANATION**



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

**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 E-W with an average line spacing of 805 m. (2640 ft.).

Lines have an average aircraft terrain clearance of 305 m (1000 ft.). Terrain clearance was monitored by radar and barometric altimeters.

Flight line identification numbers (up-side-down) are shown along east edge of map area (Sheet 1 and 2). Tie line identification numbers are shown along the south edge of the map area (both Sheet 1 and 2).

Measured at the center of the survey  
Inclination 65.7°  
Declination 17.8°

**TOTAL FIELD MAGNETIC DATA**

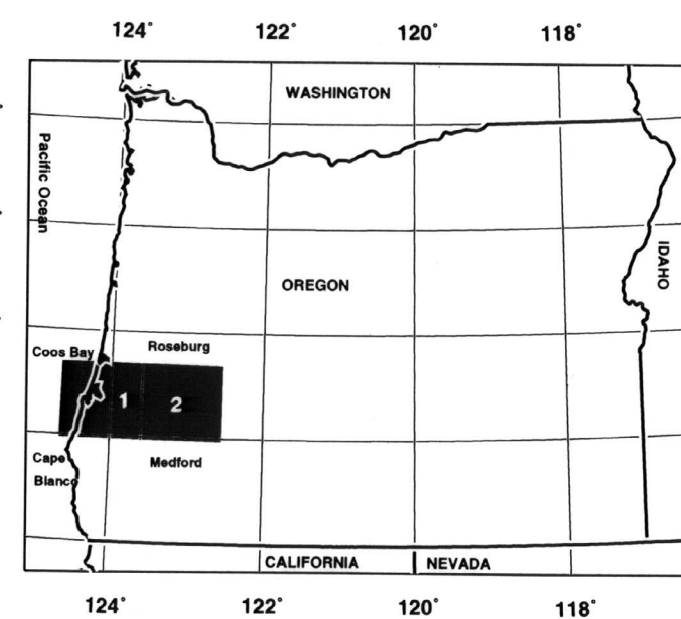
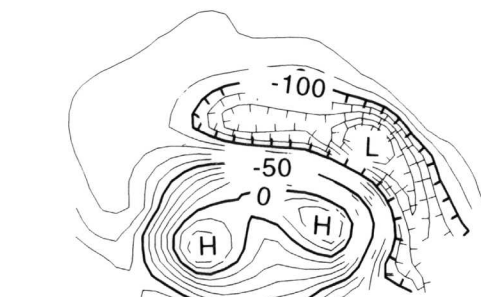
Total field magnetic intensity data were measured by a cesium vapour magnetometer.

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

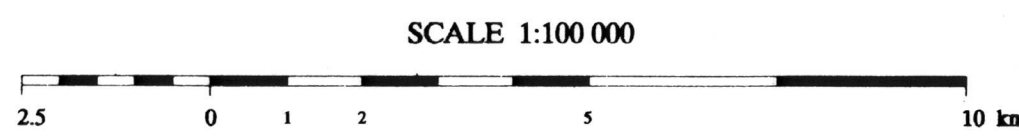
Residual magnetic data shown by contours represent corrected total field magnetic intensity minus the International Geomagnetic Reference Field (IGRF).

Gridding interval is 200 m X 200 m.

Map contour interval is 10 nanoTeslas (nT).



**SURVEY LOCATION**



Projection: UTM Clarke 1866 spheroid  
Central meridian: 123° West  
Survey flown: July, 1996  
Flown and compiled by Pearson, deRidder, and Johnson  
Lakewood, CO

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