

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 (2083 ft).  
Use diagram for reference only

Grid North-True North: 0° 21' 0"  
Grid North-Magnetic North: 18° 23' 24"  
Inclination 67° 28' 12"  
Declination rate of change 0° 4' 46"  
Inclination rate of change 0° 1' 12"  
per year from 1995 25

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

Traverse lines were flown at an azimuth of  
0°-180° with an average line spacing of 805 m (2640 ft)  
for the Los Angeles and San Bernardino areas and at an azimuth  
of 30°-210° with an average line spacing of 538 m (1760 ft)  
for the San Bernardino additive area.

Lines have an average aircraft terrain clearance  
of 553 m (1813 ft). Terrain clearance was monitored by  
radar and barometric altimeters.

Flight line identification numbers are shown along  
north edge of map area and at a limited number  
of locations interior to the map. Tie line identification  
numbers are shown along the west 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 ADDC04 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 54057.07 nT less than before the IGRF removal.

Gridding interval is 200m X 200m and gridding direction is 120°.

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

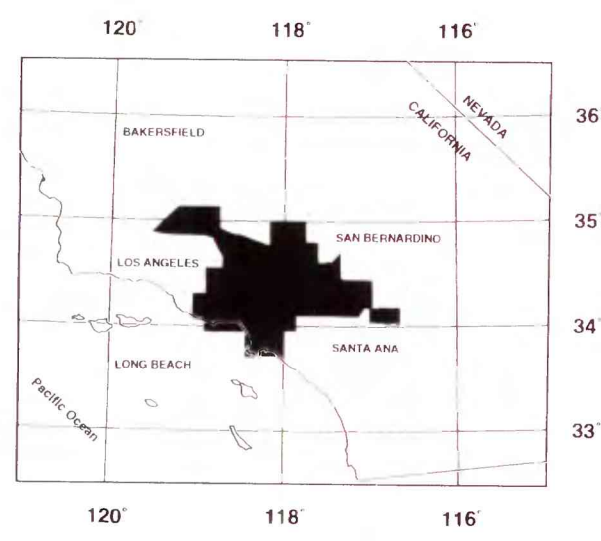
2 nT  
10 nT  
50 nT  
200 nT  
1250 nT

Magnetic high  
Magnetic low

[Hachures (V) indicate closed lows]

AEROMAGNETIC MAP OF PARTS OF THE  
LOS ANGELES, SAN BERNARDINO, BAKERSFIELD  
LONG BEACH AND SANTA ANA  
1° BY 2° QUADRANGLES,  
CALIFORNIA

BY  
U. S. GEOLOGICAL SURVEY  
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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: 117° West  
Survey flown November, 1994 - July, 1995  
February - March, 1996

Flown and compiled by AERODAT, Inc.,  
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