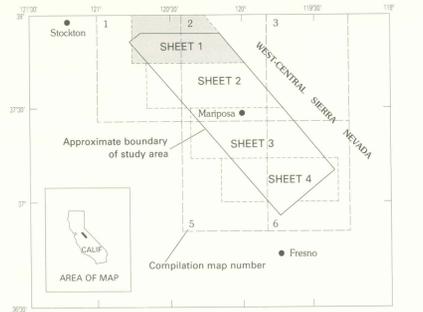


DESCRIPTION

The aeromagnetic contour maps are a compilation of five maps (numbered 1, 2, 3, 5, and 6 on the index map) from U.S. Steel Corporation that were surveyed in 1956 by Aero Service Corporation and originally compiled at a scale of 1:63,360. The Earth's regional magnetic field was not removed from the observed values. This regional variation amounts to 9.2 nT/mi north and 4.8 nT/mi east. The datum is arbitrary. Discrepancies in registration of the aeromagnetic contours with the topographic base map may be as much as 0.05 in. Thus, some anomalies may have location errors of as much as 250 ft. Other anomaly location errors may be partly due to flight navigation errors during the 1956 survey.

EXPLANATION

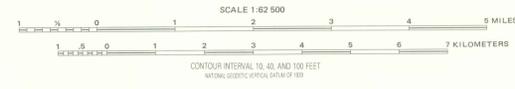
-  **MAGNETIC CONTOURS**—Showing the total magnetic field of the Earth in nanoteslas (nT) relative to an arbitrary datum. 1 nT = 1 gamma. Contour intervals are 20 and 100 nT. Dashed where interval is 500 nT. Closed magnetic lows are hachured.
-  **FLIGHT LINES**—Showing location and spacing of data. Flight lines trend approximately northeast. Flight altitude is nominally 500 ft above terrain, but may be variable. Flight-line spacings are 3/8 and 3/4 mi.



INDEX MAP SHOWING AREA OF STUDY AND THE FIVE COMPILATION MAPS (NUMBERED 1, 2, 3, 5, and 6)

Base from U.S. Geological Survey
Datafile, 1968 at 1:24,000. Sierra Tuolumne,
1962; Lake Eleanor, 1966; Copperopolis, 1962 at
1:62,500.

Total magnetic intensity data flown and compiled
by Aero Service Corporation, 1956.



AEROMAGNETIC MAPS OF THE WEST-CENTRAL SIERRA NEVADA, CALIFORNIA

Compiled by
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1987