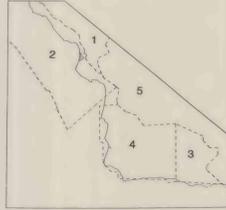


MAP SHOWING AEROMAGNETIC SURVEY BOUNDARIES



DESCRIPTION OF DATA

Five aeromagnetic surveys, whose specifications are shown in Table 1, were gridded with a grid interval of 1.0 km and contoured by computer. The International Geomagnetic Reference Field (IGRF 1975) updated to the appropriate year was removed from each survey. Arbitrary datum levels were selected to minimize discrepancies between adjoining surveys.

TABLE 1. Aeromagnetic survey specifications

Area	Year	Elevation (ft)	Spacing (m)	Elevation	Reference
1	1970	6,500	1	NE-SW	Hanna, 1970
2	1970	2,900	1	NE-SW	McCulloch and Chapman, 1977
3	1980	400	3	E-W	QEB, 1980
4	1981	400	3	E-W	QEB, 1981
5	1970	1,200	0.5	NE-SW	USGS, 1980

(ft, basepoint; -64000; QEB, H, QEB, Inc. and High Life Helicopters, Inc.; USGS, United States Geological Survey)

REFERENCES

Hanna, W.F., 1970, Aeromagnetic and gravity features of the western Franciscan and Salinian basement terraces between Cape San Martin and San Luis Obispo, California: U.S. Geological Survey Professional Paper 700-B, p. 66-77.

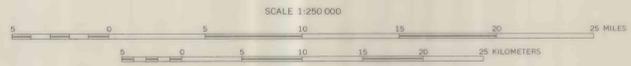
McCulloch, D.S., and Chapman, R.H., 1977, Map showing residual magnetic intensity along the California coast, lat 37° 30'N. to lat 34° 30'N.: U.S. Geological Survey Open-File Report 77-79, 14 sheets, scale 1:250,000.

QEB, Inc. and High Life Helicopters, Inc., 1980, Airborne gamma-ray spectrometer and magnetometer survey: Los Angeles quadrangle, California; final report, U.S. Department of Energy, Grand Junction Office report GJEX-214(80), v. 2 (Los Angeles), scale 1:500,000.

QEB, Inc. and High Life Helicopters, Inc., 1981, Airborne gamma-ray spectrometer and magnetometer survey: Santa Maria quadrangle, California; final report, U.S. Department of Energy, Grand Junction Office report GJEX-20(81), v. 2 (Santa Maria), scale 1:500,000.

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Projection: Lambert
Central Meridian: 120° 00'
Base Latitude: 34° 00'



LOCATION DIAGRAM



ISOSTATIC RESIDUAL GRAVITY AND AEROMAGNETIC MAPS OF THE SANTA MARIA PROVINCE
INCLUDING PORTIONS OF THE SANTA MARIA, SAN LUIS OBISPO, LOS ANGELES,
AND BAKERSFIELD QUADRANGLES AND ADJACENT OFF-SHORE AREAS, CALIFORNIA

AEROMAGNETIC MAP OF THE SANTA MARIA PROVINCE

by
Peter E. Sauer and John Mariano
1990

EXPLANATION

- Contours showing aeromagnetic anomalies in nanoteslas (nT). Contour intervals are 10 and 50 nT. Hashures indicate magnetic lows. Grid cell size is 1 km.
- Flight line (shown only where spacing exceeds 1.6 km).
- Boundary of aeromagnetic survey.
- Shoreline.

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.