



DISCUSSION

This map was compiled from the lowest level aeromagnetic maps available (mainly 9,000 foot barometric elevation (B)-see index). The original maps were digitized by Sweeney and others (1978). Hildenbrand and others (written commun. 1986) gridded the digitized data at a 1 kilometer spacing and downward continued them to 1,000 feet above the ground (AG). A regional field was removed from each data set and datum shifts were applied as necessary to achieve a constant datum. The data were merged into a single 1 kilometer grid file which was used when contouring this map. The resulting map yields an integrated picture of the total magnetic field in the area, and is useful for identification of areas of further interest. It is suggested that quantitative interpretation should be done using the original data as fictitious anomalies may have been generated in the merging, continuation, and contouring processes. The final gridded data have been checked against the original maps to ensure that the location of major anomalies and magnetic trends have been preserved.

The dashed lines on the map show the original aeromagnetic survey flight line paths. Survey areas are separated by solid lines, and each survey has been given an index number which is used to identify it on the map, index map, table of survey specifications, and in the references. Areas that were flown together but released separately have the same index number followed by an alphabetic suffix, and are separated by dotted lines.

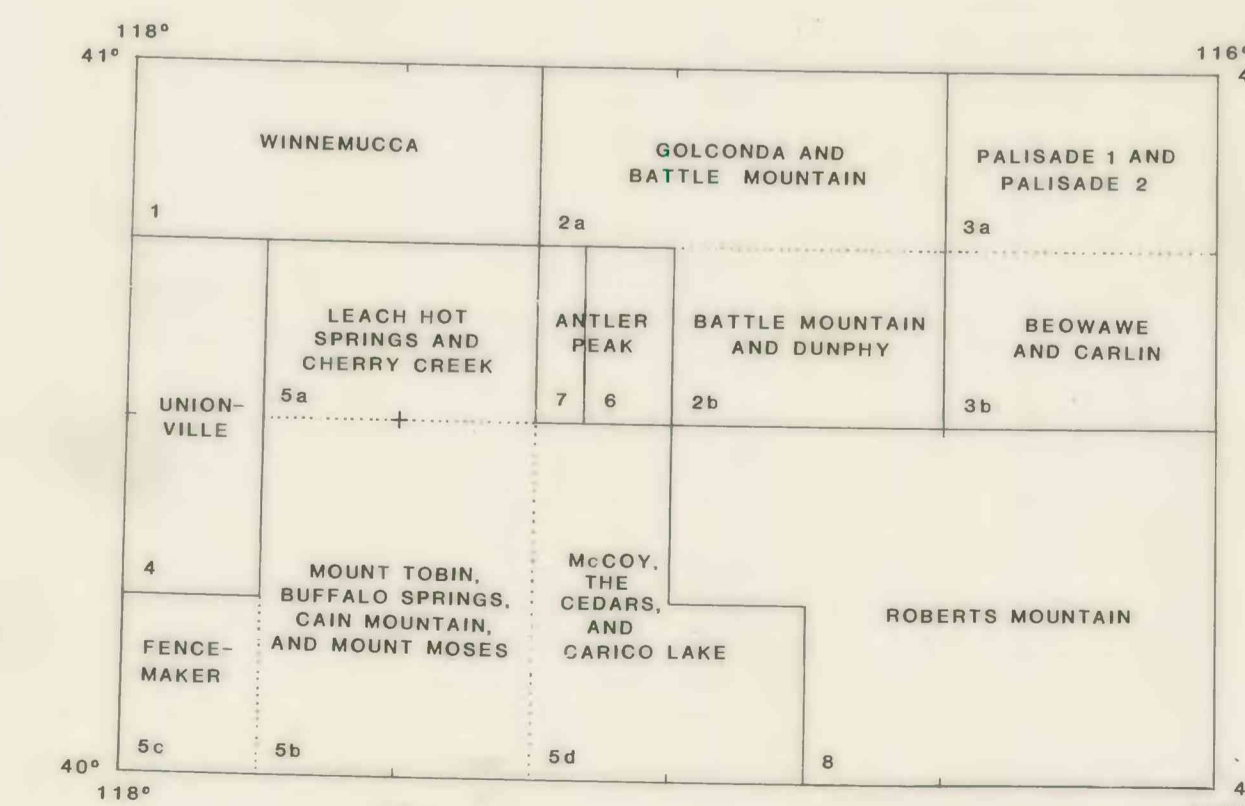
REFERENCES

1. U.S. Geological Survey, 1970. Aeromagnetic map of the Winnemucca area, northwestern Nevada. U.S. Geological Survey Open-File Report 70-340, scale 1:62,500.
- 2a. ———, 1968. Aeromagnetic map of parts of the Golconda and Battle Mountain quadrangles, Humboldt, Lander, and Eureka Counties, Nevada. U.S. Geological Survey Open-File Report 68-285, scale 1:62,500.
- 2b. ———, 1968. Aeromagnetic map of the Battle Mountain and Dunphy quadrangles, Lander and Eureka Counties, Nevada. U.S. Geological Survey Open-File Report 68-283, scale 1:62,500.
- 3a. ———, 1967. Aeromagnetic map of the Palisade 1 and Palisade 2 quadrangles, Eureka and Elko Counties, Nevada. U.S. Geological Survey Open-File Report 67-246, scale 1:62,500.
- 3b. ———, 1967. Aeromagnetic map of the Beowawe and Carlin quadrangles, Eureka and Elko Counties, Nevada. U.S. Geological Survey Open-File Report 67-227, scale 1:62,500.
4. ———, 1968. Aeromagnetic map of the Unionville region, Pershing County, Nevada. U.S. Geological Survey Open-File Report 68-292, scale 1:62,500.
- 5a. ———, 1973. Aeromagnetic map of the Leach Hot Springs and Cherry Creek quadrangles, Pershing, Humboldt, and Lander Counties, Nevada. U.S. Geological Survey Open-File Report 73-301, scale 1:62,500.
- 5b. ———, 1973. Aeromagnetic map of the Mount Tobin, Buffalo Springs, Cain Mountain, and Mount Moses quadrangles, Pershing and Lander Counties, Nevada. U.S. Geological Survey Open-File Report 73-303, scale 1:62,500.
- 5c. ———, 1973. Aeromagnetic map of the Francemaker quadrangle, Pershing County, Nevada. U.S. Geological Survey Open-File Report 73-300, scale 1:62,500.
- 5d. ———, 1973. Aeromagnetic map of the McCoy, The Cedars, and Carico Lake quadrangles, Lander County, Nevada. U.S. Geological Survey Open-File Report 73-302, scale 1:62,500.
6. Mabey, D.R., 1964. Aeromagnetic survey of the Antler Peak quadrangle. In Roberts, R. J., Stratigraphy and structure of the Antler Peak quadrangle, Humboldt and Lander Counties. U.S. Geological Survey Professional Paper 459-A, p. 82-83, plate 5, scale 1:62,500.
7. Sweeney, R., Goodson, R., Hassemer, J., Danseman, D., and Bhattacharyya, B., 1978. Composite aeromagnetic map of Nevada. U.S. Geological Survey Open-File Report 78-695, scale 1:500,000.
8. Philbin, P.W., Mewaldke, J.L., and McCullin, W.E., 1963. Aeromagnetic map of the Roberts Mountain area, central Nevada. U.S. Geological Survey Open-File Report 63-107, scale 1:125,000.

AEROMAGNETIC SURVEY SPECIFICATIONS

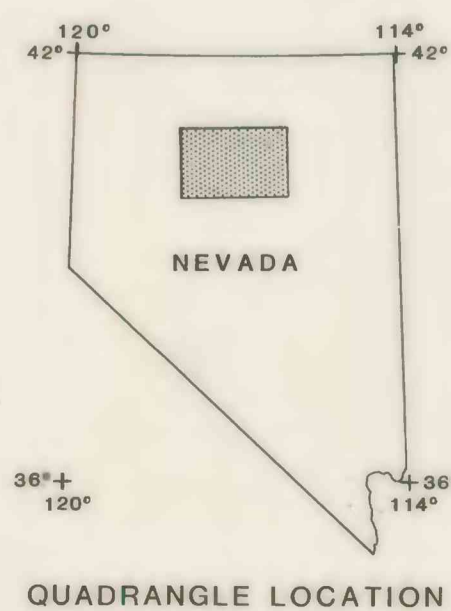
[B, barometric elevation; AG, altitude above ground.]

Survey	Flight year	Flight elevation	Flight line spacing	Flight direction	Scale
1	1969	9000 ft B	1 mi	E-W	1:62,500
2	1967	9000 ft B	1 mi	E-W	1:62,500
3	1965	9000 ft B	1 mi	N-S	1:62,500
4	1967	9000 ft B	1 mi	N-S	1:62,500
5	1972	9000 ft B	1 mi	E-W	1:62,500
6	1947	1800 ft AG	1 mi	E-W	1:62,500
7	1974	9000 ft B	1 mi	N-S	1:500,000
8	1960-61	9000 ft B	1 mi	N-S	1:125,000

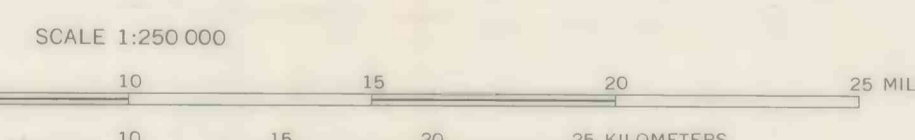


INDEX MAP OF THE WINNEMUCCA QUADRANGLE SHOWING SOURCES OF AEROMAGNETIC DATA (see text for explanation)

Base from U. S. Geological Survey 1:250,000 Winnemucca 1955 Universal Transverse Mercator Projection



QUADRANGLE LOCATION

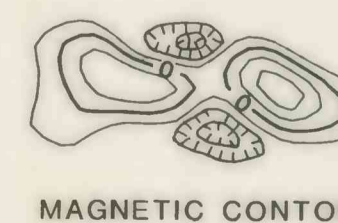


COMPOSITE AEROMAGNETIC MAP
of the
WINNEMUCCA 1° by 2° QUADRANGLE, NEVADA

compiled by
K. S. Kirchoff-Stein and T. G. Hildenbrand

1986

EXPLANATION



MAGNETIC CONTOURS

Contour interval 40 nanoteslas.
Hachured contours indicate areas of low magnetic intensity

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

FLIGHT PATH