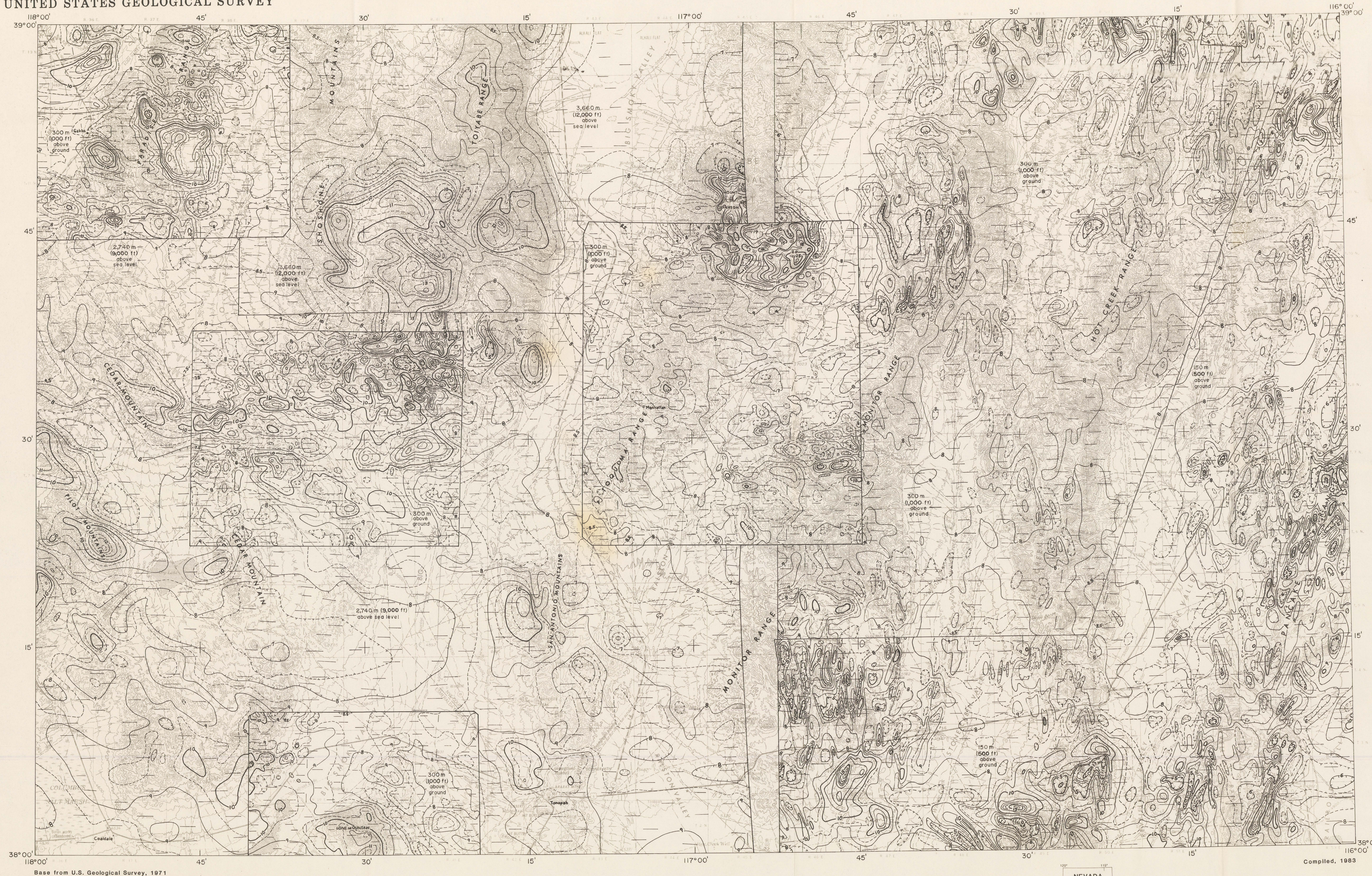


DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT 83-619



SYMBOLS

MAGNETIC CONTOURS—showing residual magnetic field in nanotesla (10⁻¹¹ T = 1 gauss). Contour interval 200 mT. Supplementary 100-mT contours are dashed. Contour labels are in units of 100 mT.

FLIGHT PATH—showing location and spacing of data.

SURVEY BOUNDARY—see figure 1 for sources of data.

EXPLANATION

The aeromagnetic map is a compilation of six previously published aeromagnetic maps. The Earth's regional magnetic field was subtracted from the observed magnetic intensities prior to the publication of all except the earliest two aeromagnetic maps (U.S. Geological Survey, 1968; 1971). The Earth's regional magnetic field was subtracted by subtracting values of the International Geomagnetic Reference Field (Petro and Bost, 1969). The six aeromagnetic surveys then were adjusted nearly to the same datum by subtracting constant magnetic intensities from the data of the six surveys. The values of the datum shifts for each survey were derived from a least-squares comparison of values along borders between surveys and the borders between different flight levels within the two earliest surveys.

REFERENCES

Fabiano, R. N., and Peddie, R. W., 1969, Grid values of total magnetic intensity, International Geomagnetic Reference Field-1965; U.S. Environmental Science Service Admin. Technical Report C and G-38, 55 p.

U.S. Geological Survey, 1968, Aeromagnetic map of the Hot Creek Range region, north-central Nevada; U.S. Geological Survey Map GP-637, scale 1:250,000.

1971, Aeromagnetic map of parts of the Tonopah and Willet 1° x 2° quadrangles, Nevada; U.S. Geological Survey Map GP-752, scale 1:250,000.

1974a, Aeromagnetic map of Cedar Mountain area, Nevada; U.S. Geological Survey Open-File Report 79-1453, scale 1:62,500.

1974b, Aeromagnetic map of the Lone Mountain area, Nevada; U.S. Geological Survey Open-File Report 79-1454, scale 1:62,500.

1974c, Aeromagnetic map of the Manhattan area, Nevada; U.S. Geological Survey Open-File Report 79-1455, scale 1:62,500.

1974d, Aeromagnetic map of the Paradise Peak area, Nevada; U.S. Geological Survey Open-File Report 79-1456, scale 1:62,500.

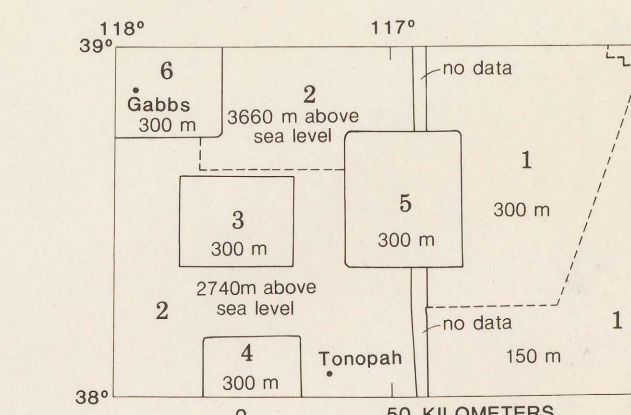
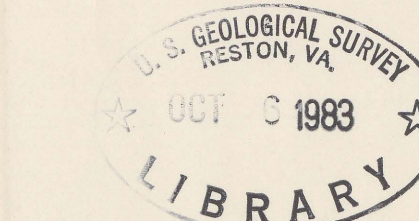


Figure 1.—Sources of aeromagnetic data. 1. U.S. Geological Survey (1968). 2. U.S. Geological Survey (1971). 3. U.S. Geological Survey (1974a). 4. U.S. Geological Survey (1974b). 5. U.S. Geological Survey (1974c). 6. U.S. Geological Survey (1974d). Dashed lines indicate boundaries between portions of survey flown at different flight levels. Numbers indicate nominal flight altitude in meters above the ground or barometric elevation relative to sea level.

PRELIMINARY AEROMAGNETIC MAP OF THE TONOPAH 1° BY 2° QUADRANGLE, NEVADA
by
Donald Plouff
1983



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

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