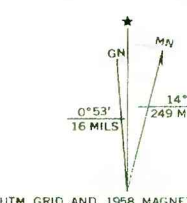


Base from U.S. Geological Survey, 1958

Aeromagnetic contours composited from data furnished through contract to the U.S. Geological Survey by: Aerial Surveys, Salt Lake City, Utah, flown June 1976, area A; LKB Resources, Inc., Huntington Valley, Pennsylvania, flown Dec.-Jan. 1978-1979, area B; Airmag Surveys, Inc., Philadelphia, Pennsylvania, flown Dec.-Jan. 1979-80, area C. The data are corrected by the International Geomagnetic Reference Field 1975 updated to the times flown.



CONTOUR INTERVAL 40 FEET  
NATIONAL GEODETIC DATUM OF 1929

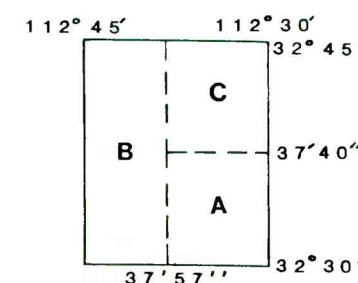
EXPLANATION

MAGNETIC CONTOURS--Hachured to indicate closed lows.  
Relative highs indicated by "H". Contour interval 20 nT

--- BORDER BETWEEN DIFFERENT DATA USED FOR COMPOSITE

FLIGHT ELEVATION--1,220 m (4,000 ft) barometric.  
LINE SPACING --1,600 m (1.0 mi).  
LINE DIRECTION --east-west.

Residual magnetic intensity contours were hand interpolated across boundary joins. Values in areas B and C were modified by a constant to correspond with their join to area A. There is an apparent datum discrepancy between the different areas due to reduction to different epochs of the reference field hence the conversion to total magnetic intensity differs across joins and is found approximately by the following additive constants for each area. 49,383 nT for area A, 51,580 nT for area B, 50,010 nT for area C. Composited data without boundary-join interpolation is shown on a 1:250,000-scale map in U.S. Geological Survey Open-File Report 82-599.



LOCATION OF  
COMPOSITED  
DATA

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

DATA SOURCES

Area A: U.S. Geological Survey, 1980, Residual aeromagnetic map, Papago Indian Reservation, southern Arizona: U.S. Geological Survey Open-File Report 80-56, scale 1:250,000.

Area B: U.S. Geological Survey, 1979, Aeromagnetic map of the Agila Mountains and vicinity, Arizona: U.S. Geological Survey Open-File Report 79-1446, scale 1:250,000.

Area C: U.S. Geological Survey, 1980, Aeromagnetic map of the northern part of the Ajo 10 x 20 quadrangle, Arizona: U.S. Geological Survey Open-File Report 80-1126, scale 1:250,000.

RESIDUAL AEROMAGNETIC MAP OF THE HAT MOUNTAIN QUADRANGLE, ARIZONA

By  
Douglas P. Klein  
1983