

69° 7' 30"

68° 52' 30"

68° 37' 30"

68° 22' 30"

45° 45' 0"

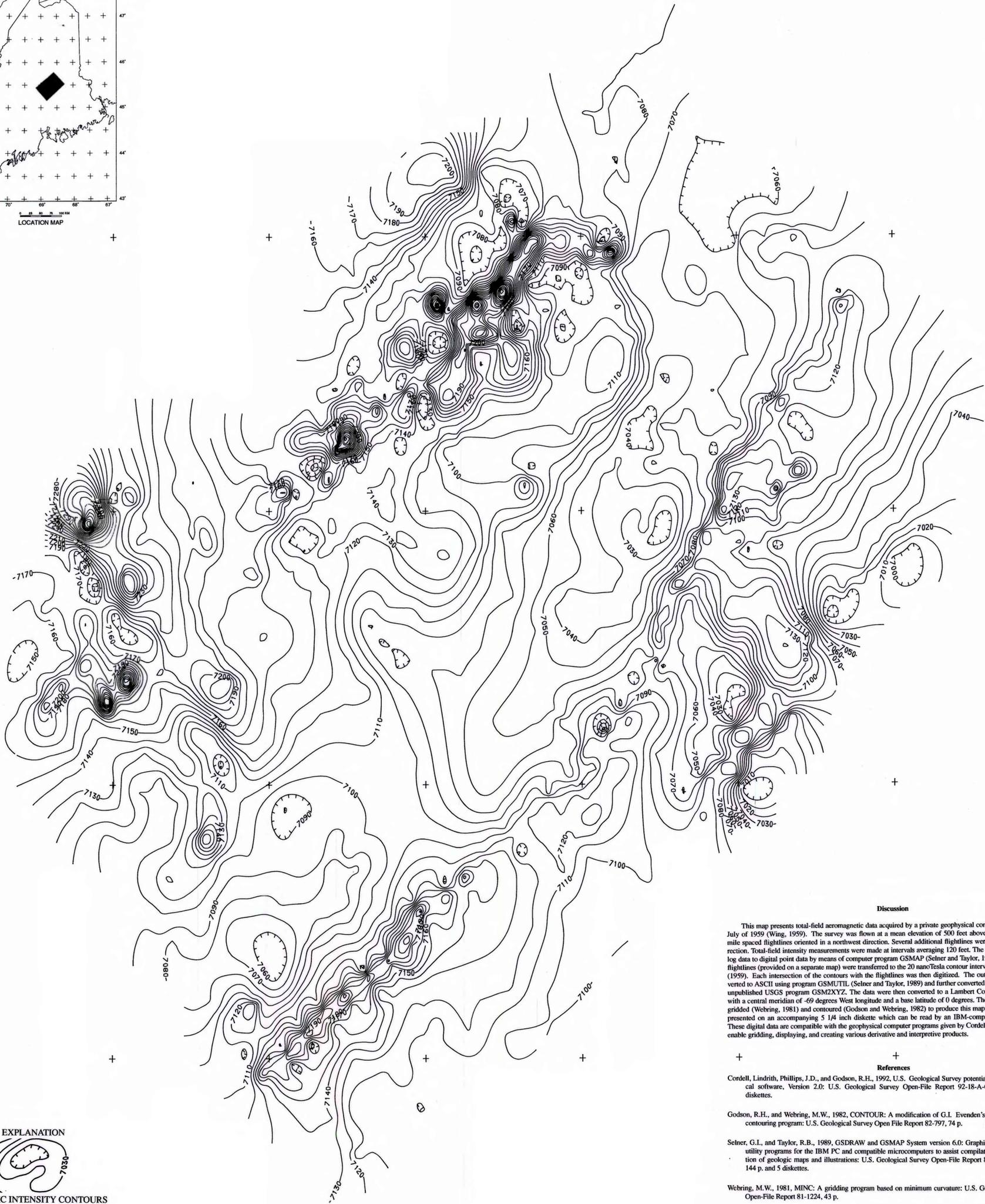
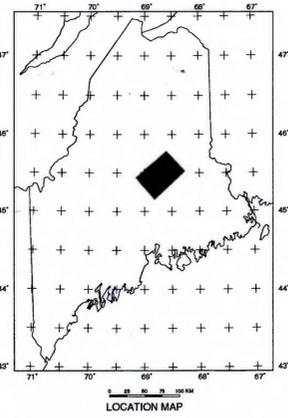
45° 45' 0"

45° 30' 0"

45° 30' 0"

45° 15' 0"

45° 15' 0"



**EXPLANATION**

**MAGNETIC INTENSITY CONTOURS**

Contour interval 10 nT. Hachures indicate closed areas of lower magnetic intensity.

**Discussion**

This map presents total-field aeromagnetic data acquired by a private geophysical contractor in May, June, and July of 1959 (Wing, 1959). The survey was flown at a mean elevation of 500 feet above ground along 1/4 to 1/2 mile spaced flightlines oriented in a northwest direction. Several additional flightlines were flown in a northeast direction. Total-field intensity measurements were made at intervals averaging 120 feet. The USGS converted the analog data to digital point data by means of computer program GSMAP (Selner and Taylor, 1989). The locations of the flightlines (provided on a separate map) were transferred to the 20 nanoTesla contour interval map provided by Wing (1959). Each intersection of the contours with the flightlines was then digitized. The output of GSMAP was converted to ASCII using program GSMUTIL (Selner and Taylor, 1989) and further converted to single point data using unpublished USGS program GSM2XYZ. The data were then converted to a Lambert Conformal Conic projection with a central meridian of -69 degrees West longitude and a base latitude of 0 degrees. The digitized data were then gridded (Webring, 1981) and contoured (Godson and Webring, 1982) to produce this map. The digital data are also presented on an accompanying 5 1/4 inch diskette which can be read by an IBM-compatible personal computer. These digital data are compatible with the geophysical computer programs given by Cordell and others (1992) which enable gridding, displaying, and creating various derivative and interpretive products.

**References**

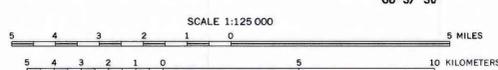
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This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

**TOTAL-FIELD AEROMAGNETIC MAP OF PORTIONS OF PENOBSCOT, PISCATAQUIS, AND AROOSTOOK COUNTIES, MAINE**

BY  
**KEVIN R. BOND**  
1993