



ISOMAGNETIC LINES (total field)

500 gammas
 100 gammas
 20 gammas
 10 gammas
 Magnetic depression

FLIGHT LINES

From strip film of terrain
 Uncorrected "Decca" position
 Adjustment line

Magnetic Survey, May, 1958, by Geophysics Division, Geological Survey of Canada, Department of Mines and Technical Surveys.

No correction has been made for regional variation; this increases at the rate of 4.7 gammas per mile from east to west and 5.4 gammas per mile from south to north.

MAP 840G

MERIGOMISH

PICTOU AND ANTIGONISH COUNTIES

NOVA SCOTIA

Scale: One Inch to One Mile = $\frac{1}{63,360}$ Miles

Air photographs covering this map-area may be obtained through the National Air Photographic Library, Topographic Survey, Ottawa, Ontario.

DECCA NAVIGATION

Decca navigation was used over the sea in order to direct the course of the aircraft and to determine its actual track for accurate compilation. For Decca chain used, see Decca Chart Chain 7 (Nova Scotia) Decca Navigation Company, New Malden, Surrey, England. The positions of the Decca lanes shown here were plotted, relative to latitudes and longitudes, from data based on theoretical calculations supplied by the Decca Navigator Company.

No correction has been made for fixed or variable errors of the Decca system, which may be as much as 1/2 mile, particularly over coast lines. Positions of flight lines as established by strip film of terrain were used in preference to Decca where the two differed, and gradual adjustments were made in the transition zones from one type of control to the other.

The magnetic data on this map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below, the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentine, which have a relatively high iron content; but in special instances may be due, or partly due, to concentrations of magnetic ore minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced into, or across, areas of few or no outcrops. In many instances, however, no interpretation of particular anomalies may be possible.