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This map was compiled from digitally-recorded aeromagnetic survey data obtained using an inboard rubidium vapour magnetometer which measured the total field with a resolution of 0.02 gamma. Flight line spacing average was 1200 m. Double control lines were flown at an average spacing of 12 kilometers.

The data was edited, compiled, leveled and gamma values for contouring interpolated on a square grid (0.25 cm grid spacing at published map scale 1:50,000), by computer processes then photographically reduced to 1:250,000 scale.

The leveling process employed the two components of the double control line and the short segments of traverse which connected them where they were not exactly coincident. This data was used to minimize and distribute non-geological contributions from the total magnetic field profile along the control line. The corrected control lines were used to level the traverse lines by a method of minimal sum total adjustment.

The final data grid was contoured and plotted using the automatic contouring program and digital plotting facilities of Dataplotting Services Ltd., Toronto.

Aerobase survey and digital compilation was carried out by Resource Geophysics and Geochemistry Division, Geological Survey of Canada. The survey operations took place in June, July and August of 1976 using Beechcraft Queenair 65-880 aircraft G-FWZG.

No correction has been made for the regional gradient of the earth's magnetic field.

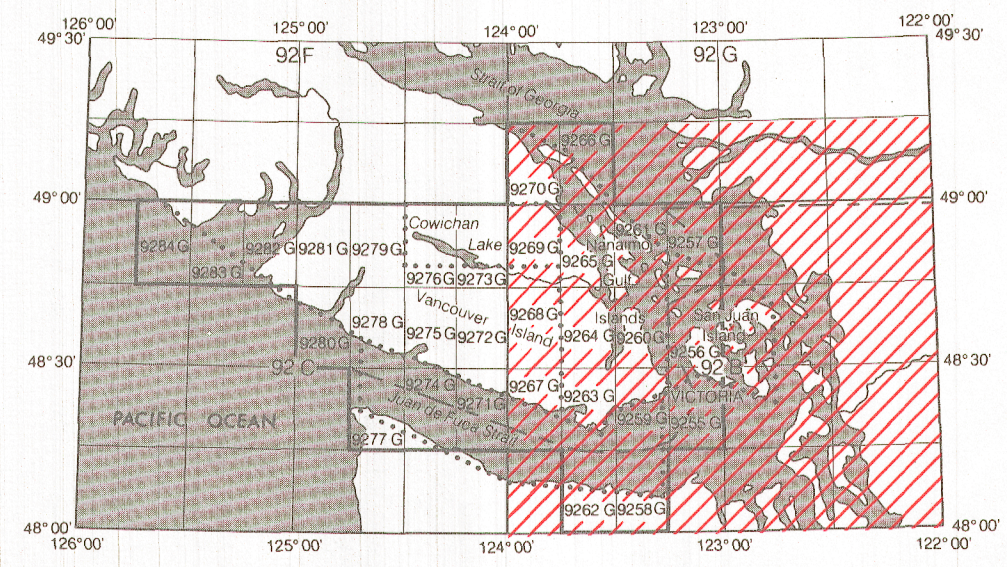
The topography for this map was reproduced from 1:250,000 topographical map sheets, published by the Department of Energy, Mines and Resources, Ottawa.

The survey data used to compile this map is available in digital form from the Geological Survey of Canada at the cost of retrieval and copying.

Copies of this map may be obtained from the Mineral Resources Branch, British Columbia Ministry of Mines and Petroleum Resources, Victoria, or from the Geological Survey of Canada, Ottawa.

The index map shown below identifies the individual 1:50,000 aeromagnetic maps used in the compilation of this 1:250,000 map.

INDEX MAP



(S)MAGNETIC FIELD (absolute total field)

- 250 gammas
- 50 gammas
- 10-20 gammas
- 2 gammas
- (1 gamma = 1 nanotesla in SI units)
- Magnetic depression
- Flight altitudes: Metres above sea level
  - Strait of Juan de Fuca 300m
  - San Juan Islands 300m
  - Nanaimo Gulf Islands 760m
  - Vancouver Island 1370m
  - Cowichan Lake 1675m

MAP 8191 G

**VICTORIA - VANCOUVER**  
**BRITISH COLUMBIA - WASHINGTON**  
**CANADA - UNITED STATES**

