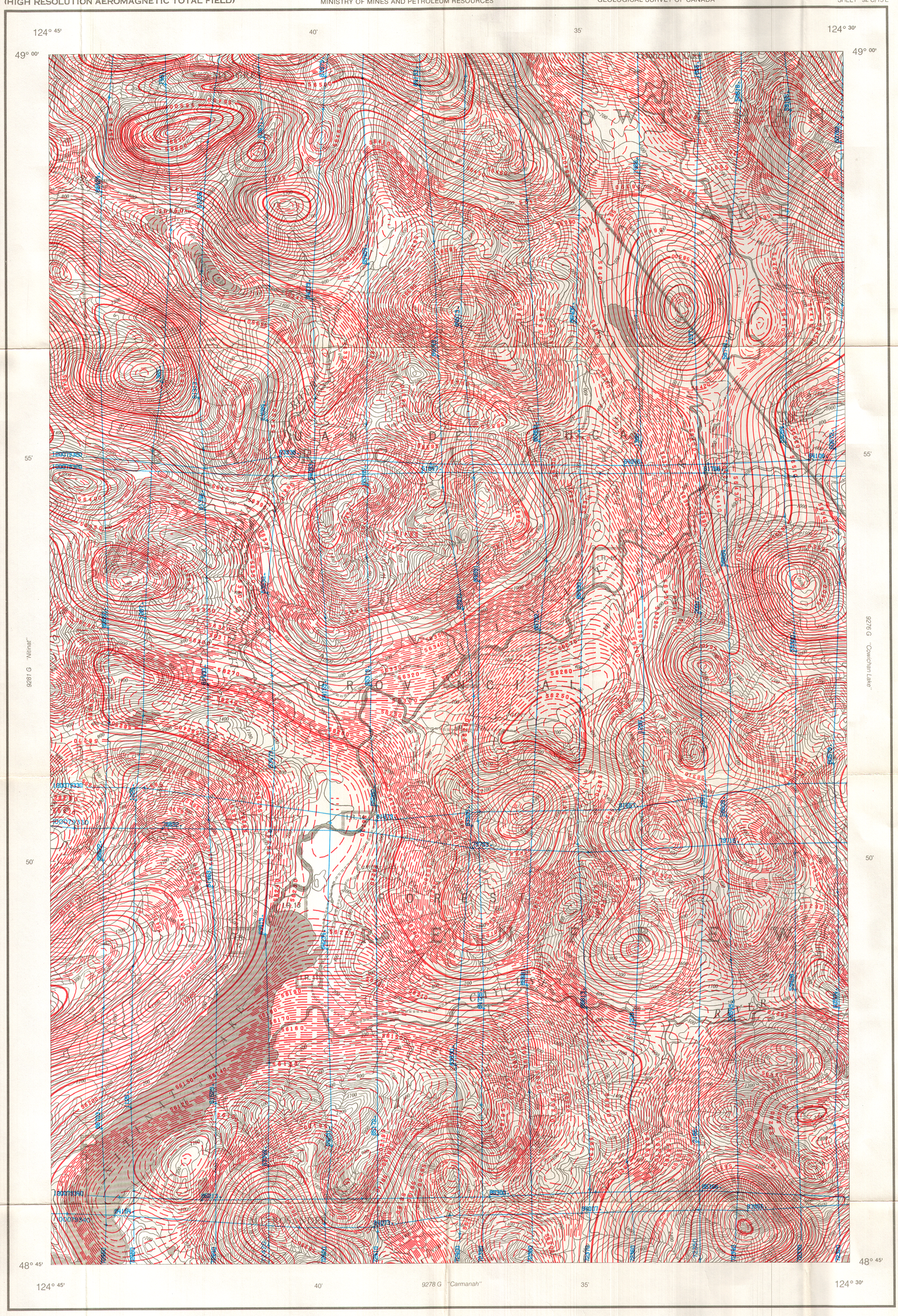
GEOPHYSICAL SERIES
(HIGH RESOLUTION AEROMAGNETIC TOTAL FIELD)

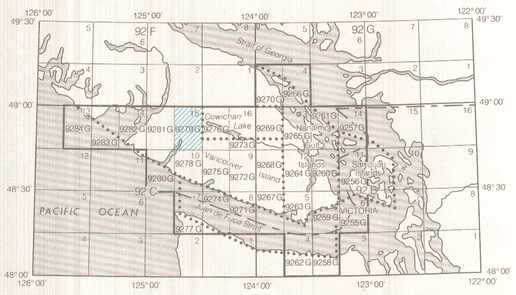
PROVINCE
OF
BRITISH COLUMBIA
MINISTRY OF MINES AND PETROLEUM RESOURCES

DEPARTMENT
OF
ENERGY, MINES AND RESOURCES
GEOLOGICAL SURVEY OF CANADA

MAP 9279 G
SHEET 92 C/15 E



INDEX MAP



ISOMAGNETIC FIELD (absolute total field)

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

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92 C/15 E

NITINAT

BRITISH COLUMBIA

Scale 1:50,000

Miles 1 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Metres

PUBLISHED 1979

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, levelled and gamma values for contouring interpolated on a square grid (0.25 cm grid spacing at published map scale) by computer processes.

The levelling 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.

Airborne 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-B80 aircraft C-FWZG.

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

The topography for this map was reproduced from 1:50,000 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.

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