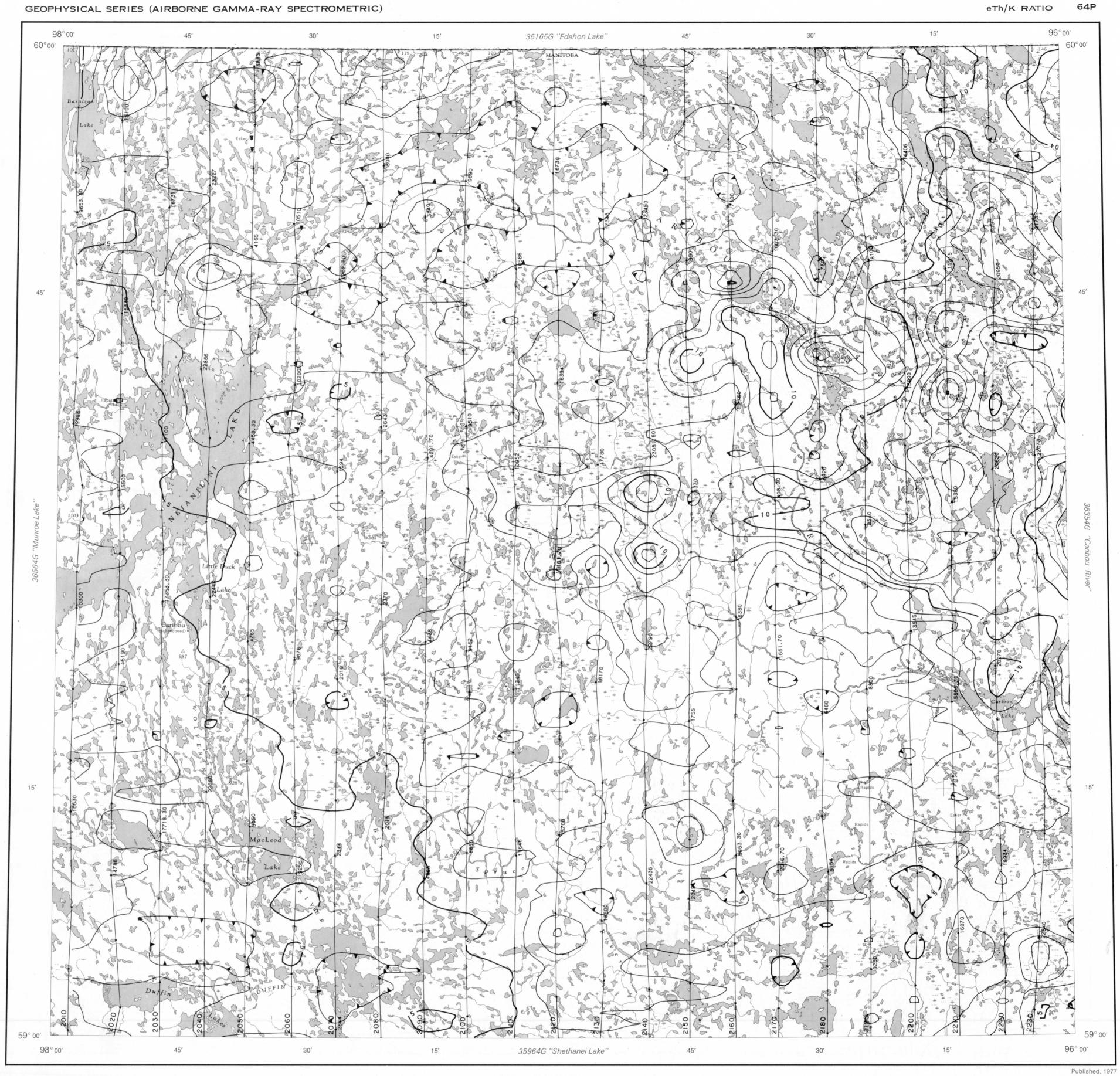
PROVINCE OF MANITOBA

GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

ENERGY, MINES AND RESOURCES

GEOLOGICAL SURVEY OF CANADA



This map was compiled from airborne gamma-ray spectrometer data recorded digitally along the flight lines shown. The spectrometer, with 50 litres of sodium iodide (Nal(T1)) dealong the flight lines shown. The spectrometer, with 50 miles of 300 m

Uranium Reconnaissance Program Airborne Gamma-Ray

Spectrometer Survey, 1976, flown and compiled by

The topography for this series of maps was reproduced from (1:250,000) topographical map sheets

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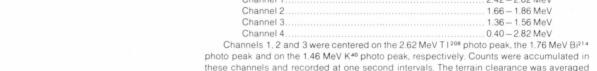
This map has been reprinted from a scanned version of the original map

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Survey Corporation Ltd.

Resources, Ottawa.

the consortium of Terra Surveys Ltd., (consortium directors), Kenting Earth Sciences Ltd., and Northway



these channels and recorded at one second intervals. The terrain clearance was averaged and recorded at one second intervals. The detectors were thermally stabilized to minimize spectrum shift. The survey aircraft were flown at a planned survey altitude of 400 feet and at

a ground speed between 190 km/hr and 240 km/hr.

The data were corrected for dead time, atmospheric changes in temperature, background radiation, spectral scattering and deviations of terrain clearance from the planned survey altitude. Corrected count rates from channels 1, 2 and 3 were converted to concentrations of equivalent thorium, equivalent uranium, and potassium, using conversion factors determined for each gamma-ray spectrometer used in the survey. The total count rates from channel 4 were converted to units of radioelement concentration. The conversion factors

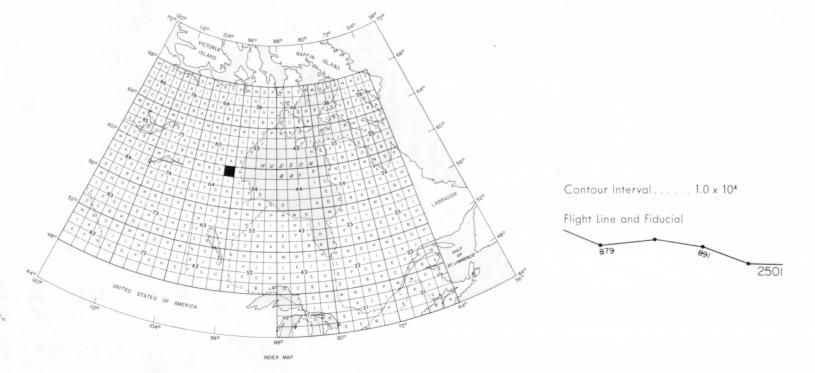


Data were smoothed using 40 data points along the flight lines (rejecting values over water), gridded at 2.2 kilometer intervals along track and 5 kilometer intervals across track, and contoured.

The contoured values are surface radioelement concentrations averaged over areas of approximately 700,000 square meters. These areas generally include some outcrop, overburden, swamps and small bodies of water. Consequently the concentrations indicated by the contour map are generally lower than the concentration in bedrock.

eTh/K RATIO

MAP 36664G MANITOBA



36664G MAP NEJANILINI LAKE

eTh/K RATIO

MANITOBA

SCALE 1:250,000 OKILOMETERS

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