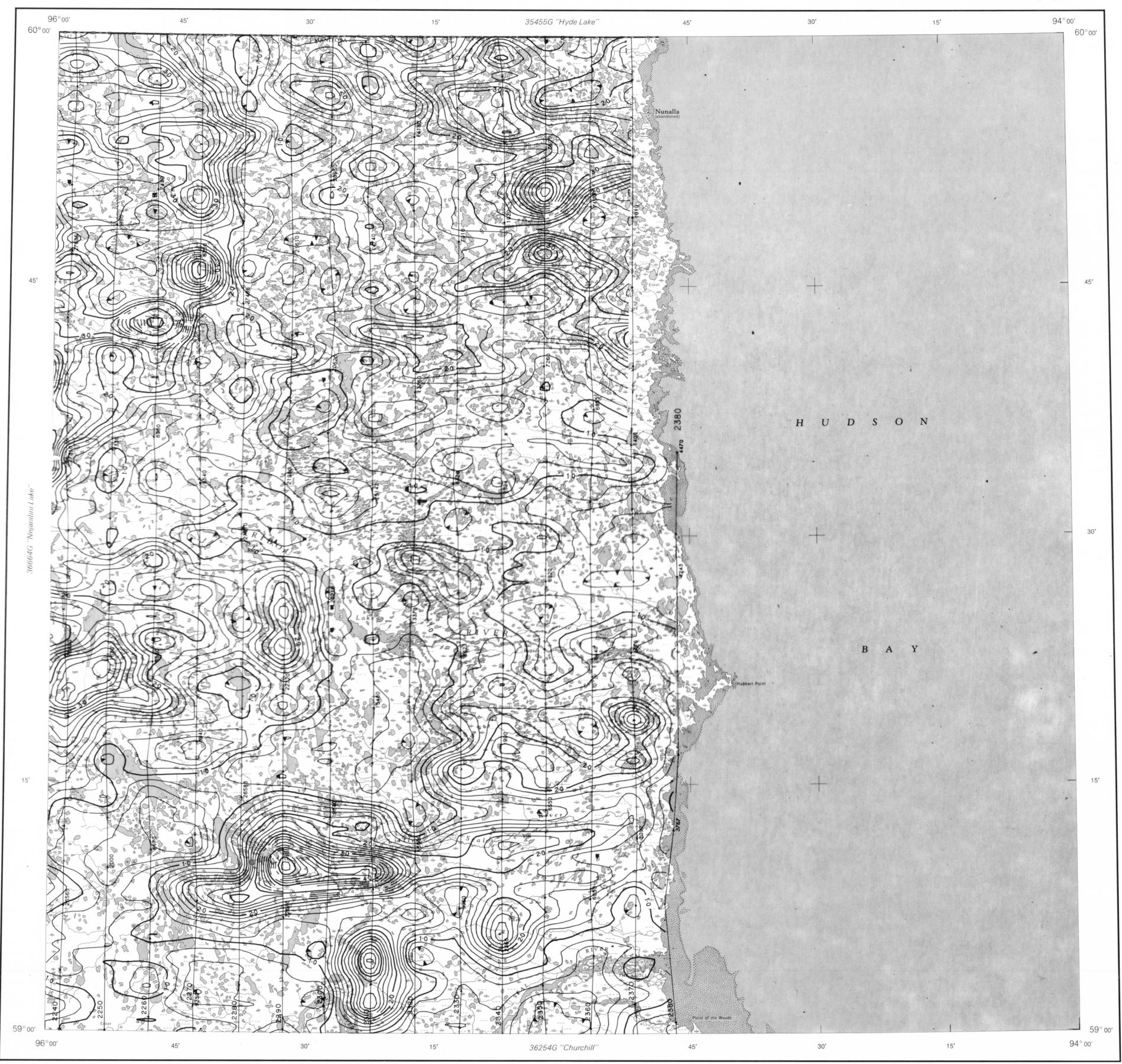
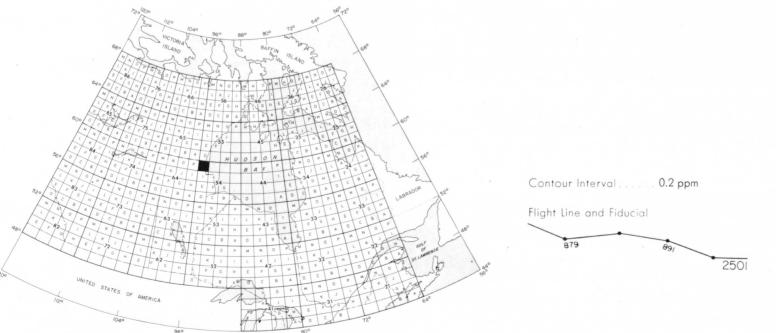
GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

EQUIVALENT URANIUM (eU)

54M

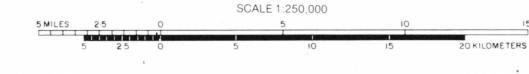




EQUIVALENT URANIUM (eU)
MAP 36354G

CARIBOU RIVER

MANITOBA

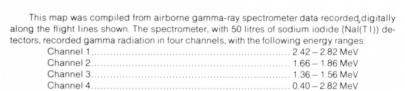


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Published, 1977



Channels 1, 2 and 3 were centered on the 2.62 MeV T I ²⁰⁸ photo peak, the 1.76 MeV Bi²¹⁴ photo peak and on the 1.46 MeV K⁴⁰ photo peak, respectively. Counts were accumulated in 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 which differed among the 3 aircraft used, are approximately those listed below:

nnel 4 were converted to units of radioelement	concentration	on.	The conversion	ı
ch differed among the 3 aircraft used, are approxi-	mately those	list	ed below:	
Channel 1	1 ppm eTh	<u>~</u>	6 cps	
Channel 2	1 ppm eU	\simeq	8 to 10 cps	
Channel 3	1 %K	$\stackrel{\cdot}{\simeq}$	70 to 80 cps	
Channel 4	1 ur	\simeq	140 to 160 cps	
Data were emosthed using 40 data points along	a the flight I	inor	(rejecting valu	

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

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.

EQUIVALENT URANIUM (eU)