

FLUORINE IN WATER (ppb)

OPEN FILE 563

SOUTHERN YUKON TERRITORY 1978

LEGEND

PLEISTOCENE AND RECENT

- 15 (64 TILL) Glacial Till: gravel, sand, silt, lake clay, volcanic ash
- 14 (63 BSLT) Vesicular olivine basalt

CRETACEOUS AND TERTIARY UPPER CRETACEOUS OR LOWER TERTIARY

- 13 (56 QZMZ) Seagull and Hake Batholiths and Stocks: biotite leucoquartz monzonite and alaskite
- 12 (52 QZMZ) Cassiar Batholith: mainly biotite monzonite and granodiorite; Ram Stock: biotite-hornblende quartz monzonite and granodiorite, in part sheared, 12a (51 QZMZ) Logjam Stocks: biotite-hornblende quartz monzonite with basic borders, 12b Biotite-muscovite granodiorite
- 11 (51 QRZD) Diorite, granodiorite, quartz diorite, gneiss, hornblende
- 10 (46 DUNT) Ultramafic rocks: olivine-bearing clinopyroxenite, dunite; serpentized and metamorphosed equivalents

PERMIAN TO JURASSIC (?)

- 9 (40 CGLM) Pebble and cobble conglomerate, greywacke, limestone, minor quartzite, chert, 9a (40 AGLM) Andesitic volcanic breccia and tuff, minor lava (?)

MISSISSIPPIAN

- 8 (34 CHRT) Chert, slate, argillite, hornfels, minor greywacke, limestone, dolomite, skarn, sandy and conglomeratic tuff, quartzite, pebble and cobble conglomerate

DEVONIAN AND MISSISSIPPIAN

- 7 (30 CHRT) Chert, hornfels, argillite, slate, phyllite, quartzite, skarn, tremolitic marble, dolomite, 7a (30 SCST) Schist and gneiss
- 6 (30 GRNS) Greenstone, chlorite schist, quartzite, phyllite, slate, argillite, chert, 6a (30 ARGL) Argillite, slate, phyllite, chert, grit, conglomerate, quartzite, 6b (30 LMSN) Limestone and dolomite, chert modules, 6c (30 GNSS) Quartz-albite-mica gneiss, albite-actinolite schist

SILURIAN AND DEVONIAN

- 5 (25 DLMT) Grey and black fetid dolomite underlain by quartzite and dolomitic quartzites; grey-buff dolomite underlain by thin bedded shale; limestone, buff dolomitic siltstone and quartzite

CAMBRIAN TO SILURIAN

- 4 (14 SLTE) Thin-bedded buff and grey slate, phyllite, limestone, 14a (14 PLTT) Thin-bedded buff and grey phyllite and limestone, black slate, argillite, grey dolomite, dolomitic limestone, 14c (14 HRFL) Hornfels, limestone, skarn

CAMBRIAN LOWER CAMBRIAN

- 3 (10 LMSN) Grey limestone, minor dolomite, slate and phyllite, minor grey and green argillite, dolomite, 3a (10 MRBL) Marble, skarn

CAMBRIAN AND (?) EARLIER

- 2 (11 QRTZ) Quartzite, minor slate and phyllite, quartz grit and fine pebble conglomerate, 2a (11 PLTT) Phyllite, minor slate, hornfels

Probably Metamorphic Equivalents of 2

- 1 (11 BSCS) Biotite, schist and quartzite, 1a (11 MRBL) Marble and skarn; also contains sills, dykes and irregular bodies of pegmatite, gneiss

*A four letter mnemonic name recorded as rock type and a two digit number recorded as age as part of field observations

Geological boundary.....
Fault.....
No analytical result.....*

This legend was modified and the geology derived for this geochemical map from Geological Survey of Canada, Map 10-1966 and 2116

Geological Survey of Canada
Resource Geophysics and Geochemistry Division

CONTRACTORS

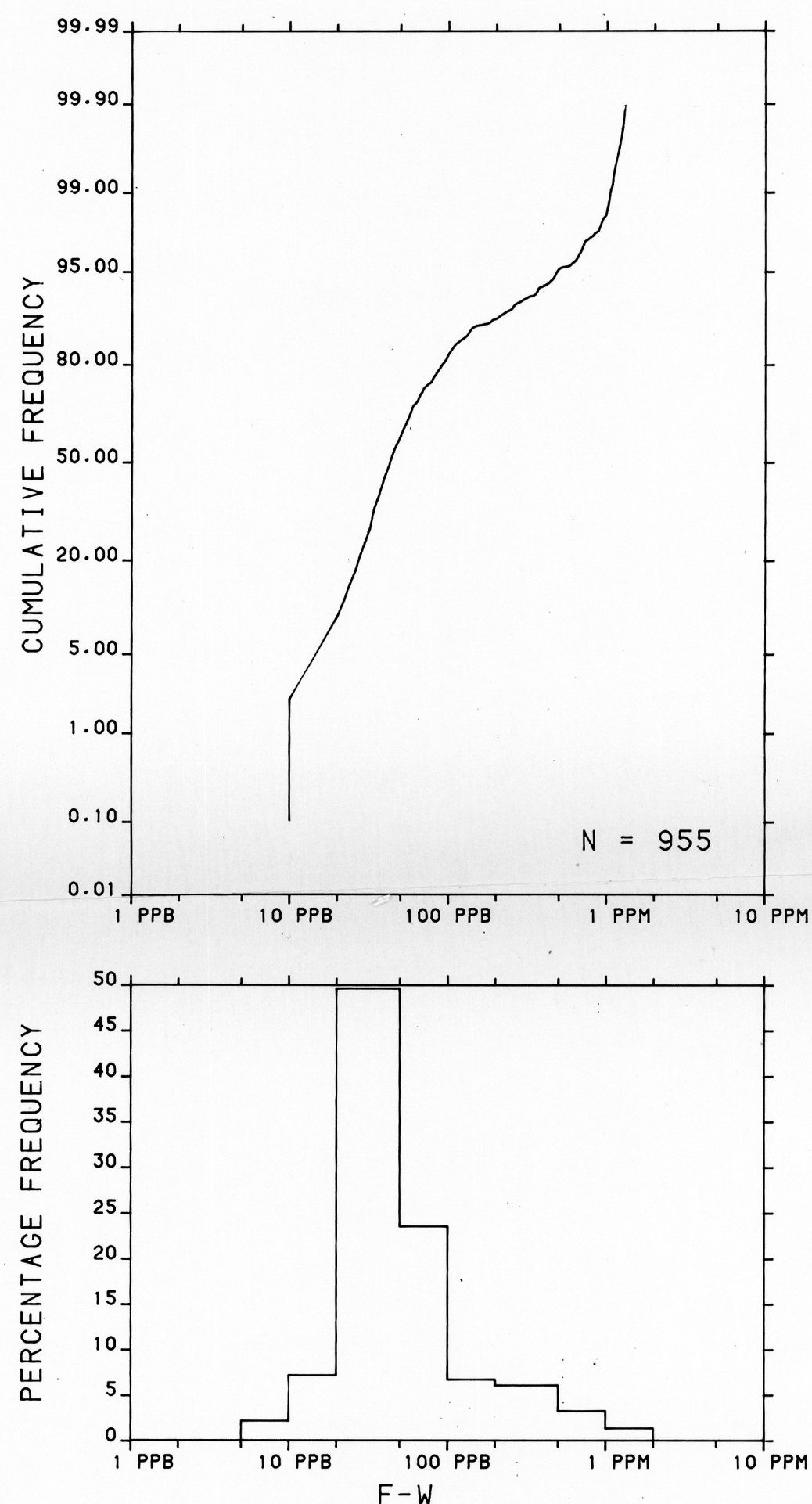
Sample collection by BEMA Ltd.
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Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
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This map forms one of a series of 45 maps released by the Geological Survey of Canada, Open Files 563, 564 and 565. Each Open File consists of maps for 12 elements for lake sediments, 1 element for lake waters, and 1 each for sample site locations, sediment loss on ignition, and water pH.

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Canada
Department of Energy, Mines and Resources
Geological Survey of Canada

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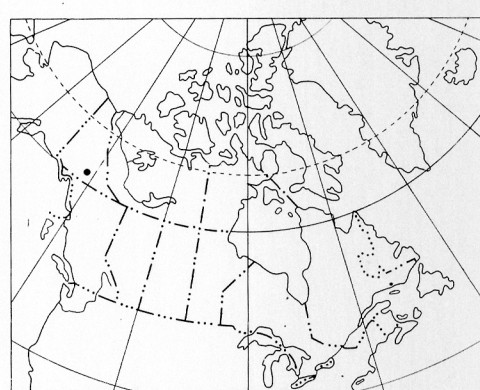


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
880 Wellington St.,
Bay 238
Ottawa, Ontario
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The data is also available in digital form. For further information please contact

The Director
Computer Science Centre
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Elevation in feet above mean sea level

Mean magnetic declination 1978, 31°045.3' East, decreasing 3.4' annually. Readings vary from 31°25.8' in the SE corner to 32°03.6' in the NW corner of the map

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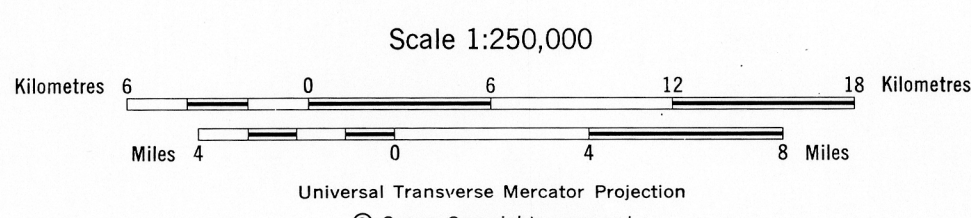
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 43-1978

URANIUM RECONNAISSANCE PROGRAM

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY

SOUTHERN YUKON TERRITORY 1978

Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1952



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