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#### CANADA

#### DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada



NATIONAL GEOCHEMICAL RECONNAISSANCE
1:2,000,000 Coloured Compilation Map Series

OPEN FILE 735

Taseko Lakes and Bonaparte Lake Area

(920 and 92P)

Resource Geochemistry Subdivision
Resource Geophysics and Geochemistry Division
Geological Survey of Canada
Ottawa, Ontario, Canada

Source data acquired by the British Columbia Ministry of Energy, Mines and Petroleum Resources.

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#### Introduction

The National Geochemical Reconnaissance 1:2,000,000 Coloured Compilation Map Series is a product of the continuing interpretation of the National Geochemical Reconnaissance (NGR) data. Variables have been computer contoured and plotted utilizing an Applicon colour plotter. Xerox colour copies of these maps are available in a series of 20 Open Files.

In the course of NGR surveys (1975-1979), sediment and water samples were collected from more than 23,000 streams and 41,000 lakes in Canada. The surveys were carried out under the auspices of the Uranium Reconnaissance Program (URP) and Provincial Geochemical Reconnaissance Surveys. Sediments from all areas were analyzed for U, Zn, Cu, Pb, Ni, Co, Mn, Fe, Mo and those from some areas for Hg, Ag, As, V, F, W, Sn and Ba. When collected, waters were analyzed for one or more of U, F and pH.

#### National Geochemical Reconnaissance - Uranium Reconnaissance Program

Part of the data for the NGR 1:2,000,000 Coloured Compilation Map Series was obtained from NGR - URP surveys (1975-1978) in the provinces. These surveys were jointly planned and funded under the terms of the following agreements:

British Columbia: Canada - British Columbia Uranium Reconnaissance Agreement.

Saskatchewan: Canada - Saskatchewan Mineral Exploration and Development
Program, Project 6-1, 1974, Reconnaissance Geoscience
Surveys (lake sediment survey).

Saskatchewan: Canada - Saskatchewan Agreement on a Uranium Reconnaissance Program.

Manitoba: Canada - Manitoba Subsidiary Agreement on Mineral

Exploration and Development; Schedule A, 3(b)(ii).

Ontario: Canada - Ontario Agreement on a Uranium Reconnaissance Program.

Newfoundland: Canada - Newfoundland Agreement on a Uranium Reconnaissance Program.

Other data were obtained from NGR-URP surveys (1975-1978) in the Yukon and Northwest Territories. These surveys were totally funded and directed by the Resource Geochemistry Subdivision, Geological Survey of Canada.

#### Provincial Geochemical Reconnaissance Surveys

Additional data used in the preparation of the NGR 1:2,000,000 Coloured Compilation Map Series have been provided through geochemical reconnaissance surveys in British Columbia (1978 and 1979) and in Ontario (1979). These surveys were totally funded by the provinces. The geochemical data from these surveys have been incorporated into the NGR archives.

#### Preparation of the NGR 1:2,000,000 Coloured Compilation Map Series

The maps and annotative material have been prepared directly from digital data by a computer mapping package (APPMAP) being developed in the Resource Geochemistry Subdivision, Geological Survey of Canada. This package makes use of an Applicon colour plotter and Applicon library software resident on a CDC Cyber 74 computer at the Computer Science Centre of the Department of Energy, Mines and Resources. The legend, border and annotative material were entered through APPMAP directives; the geochemical survey data were accessed from archival data files. APPMAP interpolates from the irregularly spaced reconnaissance data to a regular grid, which, for these data, is  $3,200 \text{ m}^2$ . The interpolation is in the form of a moving average where weighting is by an inverse distance function  $(1/d^3)$  using the nearest five data points. The effect of this moving average is to filter out the minor irregularities in the spatial data and emphasize the broader scale and regional features. Data percentiles were used for contour interval selection.

The NGR 1:2,000,000 Coloured Compilation Map Series has been prepared by members of the Resource Geochemistry Subdivision:

Project Co-ordinators

W.B. Coker and D.J. Ellwood

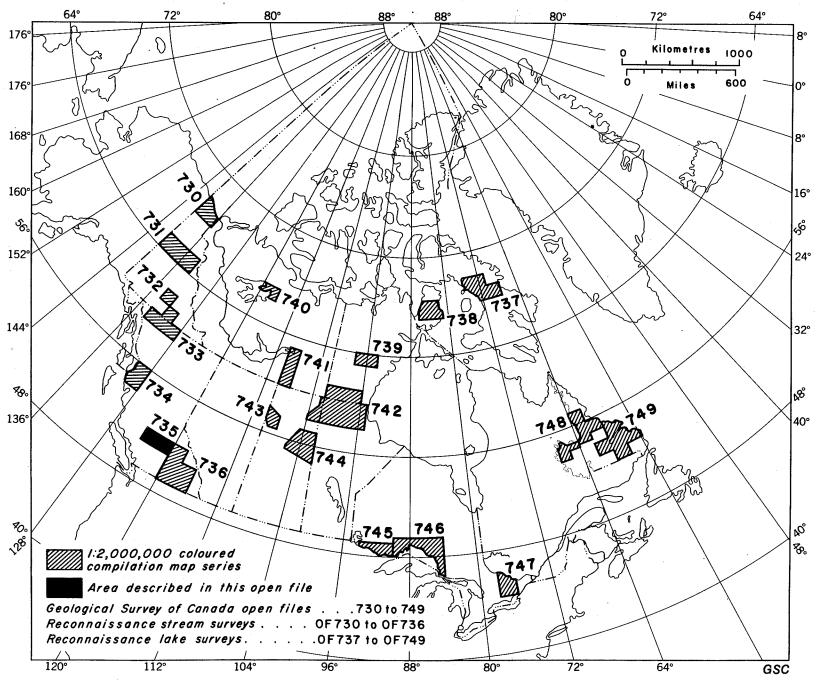
Computer Mapping Package (APPMAP)

D.J. Ellwood

# Base Map Digitizing and Contour Interval Selection

0pen	File	730	Northern Yukon and Northwest Territories (117A and parts of 117B,C,D)	W.D.	Goodfellow
0pen	File	731	Central Yukon Territory (106D, 116A,B and parts of 106C,E,F, and 116C,F,G and H)	W.D.	Goodfellow
0pen	File	732	Quiet Lake, Southern Yukon Territory (105F)	W.D.	Goodfellow
0pen	File	733	Southern Yukon Territory and Northern British Columbia (104N,0,P; and 105B)	S.B.	Ballantyne
0pen	File	734	Prince Rupert Area, British Columbia (103I,P and parts of 103J,0)	S.B.	Ballantyne
0pen	File	735	Taseko Lakes and Bonaparte Lake Area, British Columbia (920 and 92P)	S.B.	Ballantyne
0pen	File	736	Southeastern British Columbia (82E,F,K,L and M)	S.B.	Ballantyne
0pen	File	737	Baffin Island, Northwest Territories (27B and part of C; 37A,D)	Y.T.	Maurice
0pen	File	738	Melville Peninsula, Northwest Territories (46N,0,P; $47A(S_2)$ and $47B(S_2)$ )	E.M.	Cameron
0pen	File	739	Baker Lake, Northwest Territories (55M, 65P)	Y.T.	Maurice

0pen	File	740	Great Bear Lake, Northwest Territories (86K,L and part of 96I)	Y.T. Maurice
0pen	File	741	Nonacho Lake, Northwest Territories (75C,F, and K)	Y.T. Maurice
0pen	File	742	Northern Manitoba, Southeastern Northwest Territories and Northeastern Saskatchewan (54L,M; 64I,J,K,N,O,P and parts of 64L,M; 65A,B,C)	W.B. Coker
0pen	File	743	West-Central Saskatchewan (74F and $74C(N_2)$ )	W.B. Coker
0pen	File	744	East-Central Saskatchewan (63M, 64D and parts of 63K,L,N and 73I,0,P and 74A)	E.H.W. Hornbrook
0pen	File	745	Southwestern Ontario (52B,C)	W.B. Coker
0pen	File	746	Lake Superior, Ontario (52A, 52H( $S_{\frac{1}{2}}$ ), 42D, 42E( $S_{\frac{1}{2}}$ ), 42C, 42F( $S_{\frac{1}{2}}$ ), 41N, 41K( $N_{\frac{1}{2}}$ ))	W.B. Coker
0pen	File	747	Southeastern Ontario $(31C(N_2), 31F)$	W.B. Coker
0pen	File 7	748	Northern Labrador (23G(NE $\frac{1}{4}$ ), 23H(N $\frac{1}{2}$ ), 23I, 23J(E $\frac{1}{2}$ ), 14D, 13N, 13M, 13L(N $\frac{1}{2}$ )).	D.R. Boyle
0pen	File 7	749	Eastern Labrador (13B,F,G,H,I,J and 0; 3E)	D.R. Boyle



NATIONAL GEOCHEMICAL RECONNAISSANCE 1:2,000,000 COLOURED COMPILATION MAP SERIES

#### Open File 735: Taseko Lakes and Bonaparte Lake Area, British Columbia (920 and 92P)

The data compiled on these maps were acquired by the British Columbia Ministry of Energy, Mines and Petroleum Resources and previously published:

#### References

British Columbia Ministry of Energy, Mines and Petroleum Resources

1980a: Regional geochemical survey, British Columbia (NTS 920); British Columbia Ministry of Energy, Mines and Petroleum Resources, Release R.G.S.-3-1979.

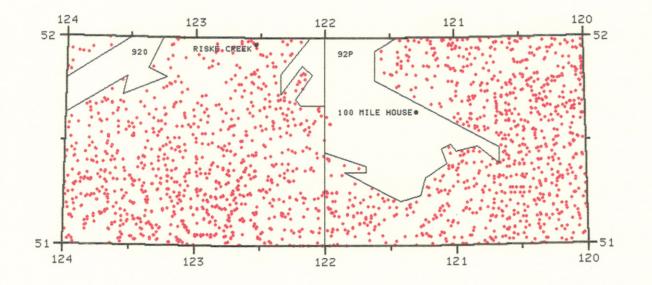
1980b: Regional geochemical survey, British Columbia (NTS 92P); British Columbia Ministry of Energy, Mines and Petroleum Resources, Release R.G.S.-4-1979.

#### 1:2,000,000 Coloured Compilation Maps

1.	Sample Location	10.	Molybdenum in Stream Sediments
2.	Uranium in Stream Sediments	11.	Mercury in Stream Sediments
3.	Zinc in Stream Sediments	12.	Silver in Stream Sediments
4.	Copper in Stream Sediments	13.	Arsenic in Stream Sediments
5.	Lead in Stream Sediments	14.	Tungsten in Stream Sediments
6.	Nickel in Stream Sediments	15.	Uranium in Stream Waters
7.	Cobalt in Stream Sediments	16.	Fluorine in Stream Waters
8.	Manganese in Stream Sediments	17.	pH in Stream Waters
9.	Iron in Stream Sediments		

TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA

NTS 920,92P

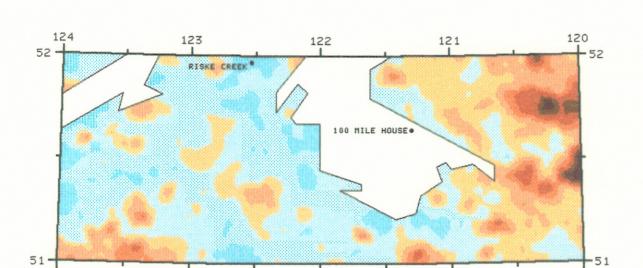


SAMPLE LOCATION MAP



TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA

121



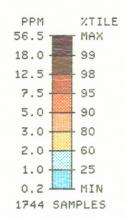


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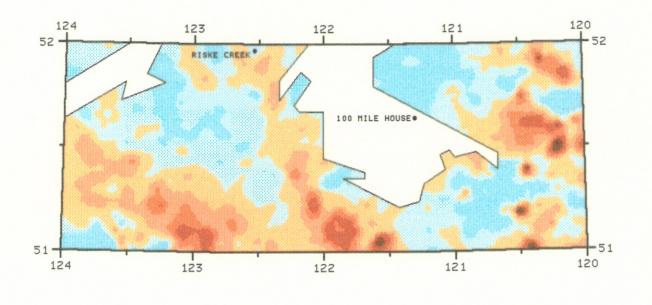




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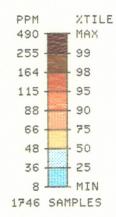
TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA

NTS 920,92P

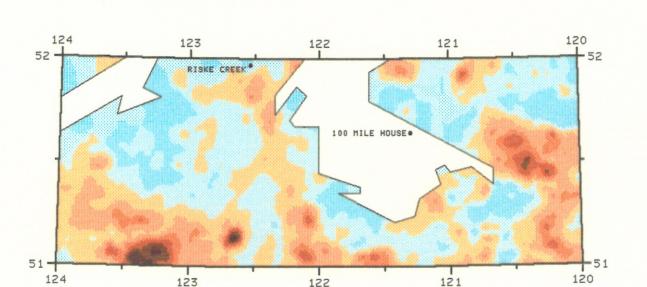






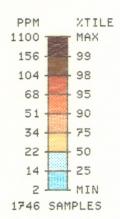


TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA



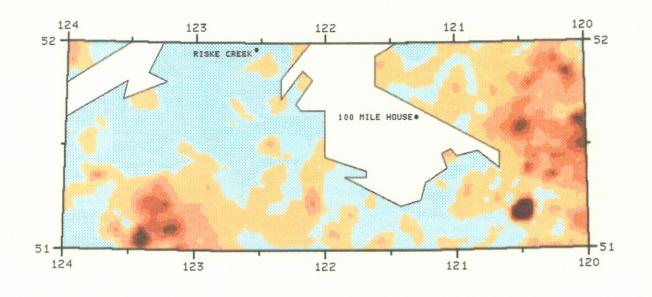




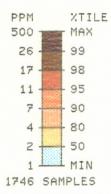


TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA

NTS 920,92P



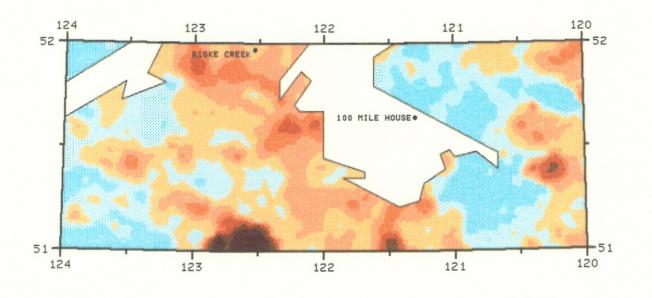






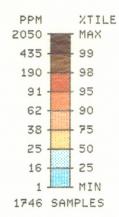
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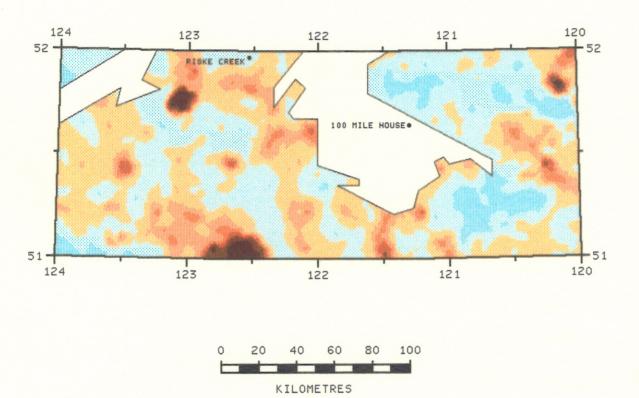




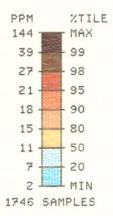




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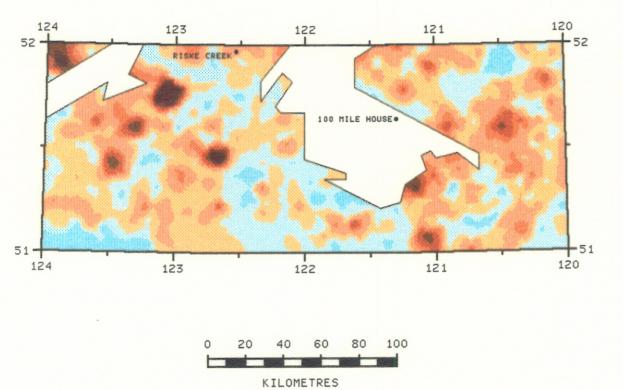




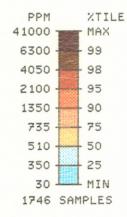


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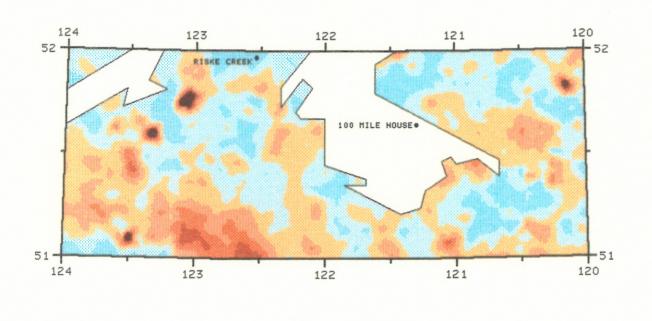
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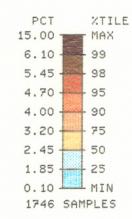


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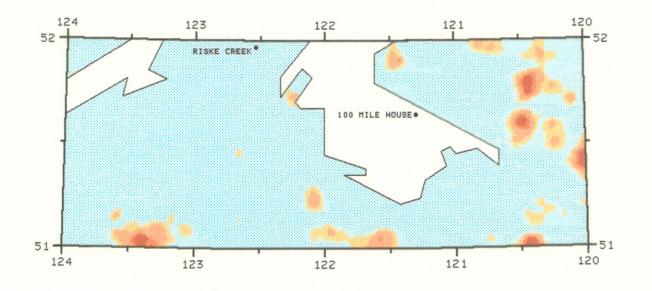




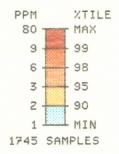


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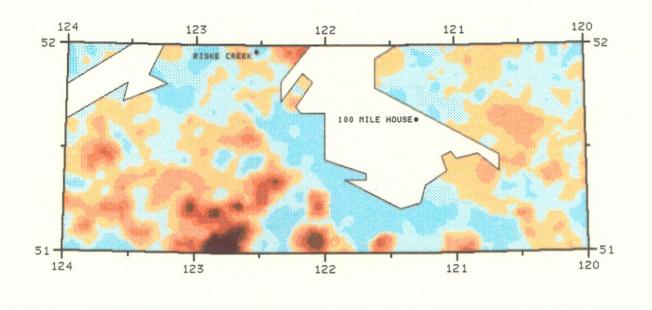






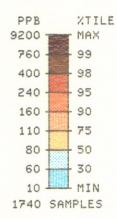


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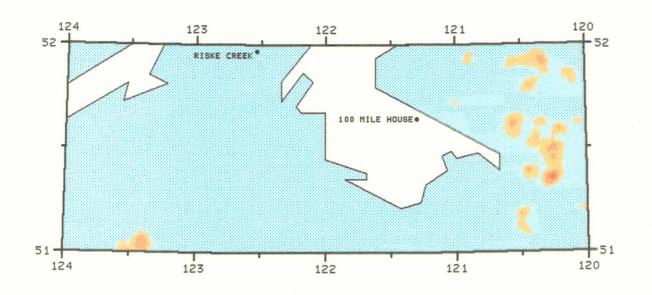


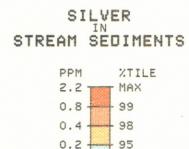






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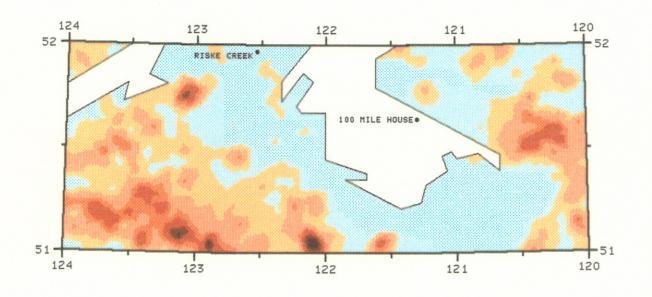


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1746 SAMPLES

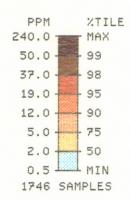


TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA



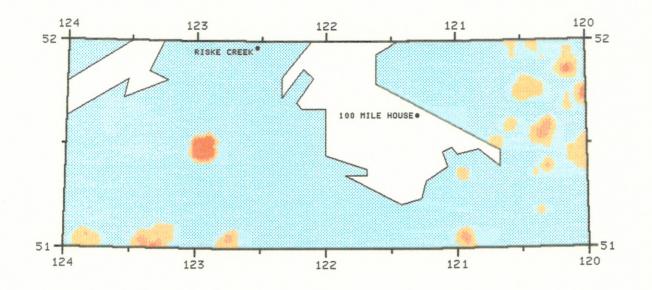




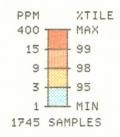


TASEKO LAKES AND BONAPARTE LAKE AREA, BRITISH COLUMBIA

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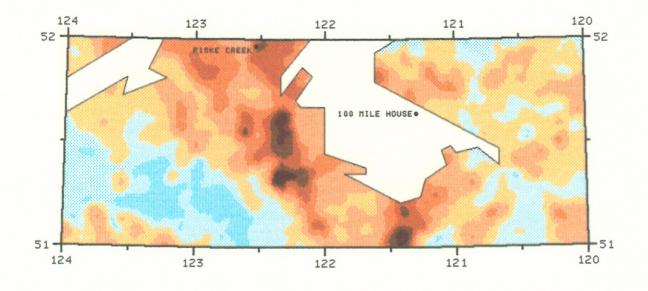






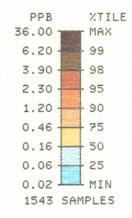
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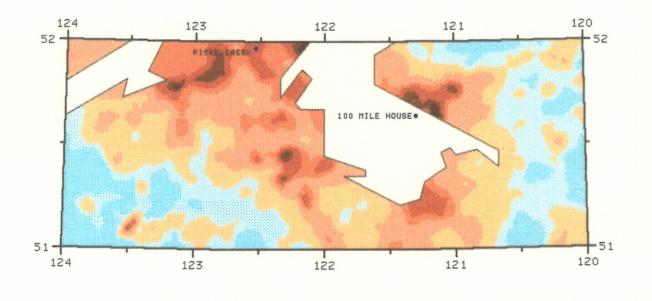




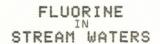


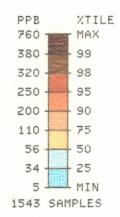
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