

Geochemical Symbol and Data Presentation

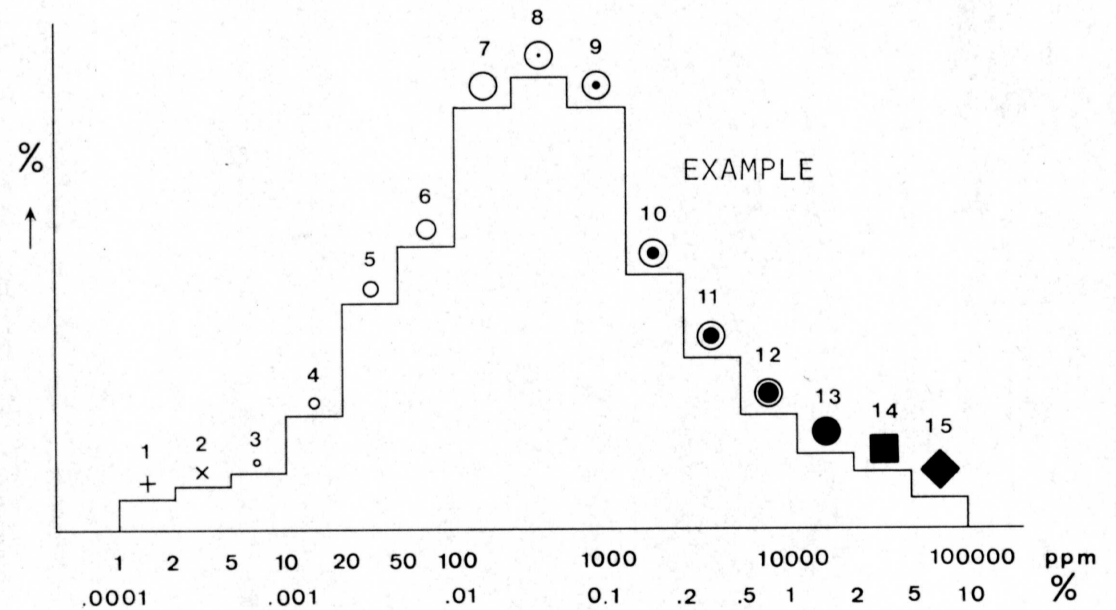
The concentration of an element at a sample site is graphically represented as one of 15 symbols. If a sample was collected but there is no data available a dot is plotted. The symbols are symmetrically arranged so that they first increase in size to the eighth symbol and then increase in blackness to the fifteenth. The two small crosses at the low end of the scale are used to respectively denote concentrations below the analytical detection limit, or, in the data group containing the detection limit, the data are grouped on a semi-logarithmic scale, i.e., 1, 2, 5, 10, 20, 50, 100 etc. Five decades can be spanned and this arbitrary division has been chosen for the continuing Canada wide series of maps constituting the National Geochemical Reconnaissance.

The choice of symbols and the data groups they represent for any specific element is based on the histogram and cumulative frequency plot for the total survey data from one, or more contiguous, open file sheets covered in one field season (above). The eighth symbol is used for the model group as defined by the histogram. This group usually includes the median of the data as defined by the 0.5 (50%) point on the cumulative frequency plot. Some, or all, of the remaining 14 symbols are chosen so as to achieve an appropriate graphical impact. An example of all 15 symbols is given below.

The symbol maps, being based on the total survey data distributions, are unaffected by the availability of ever increasing levels of knowledge in bedrock and surficial geology, and other environmental factors. Therefore, the raw data symbol maps are only intended to assist the rapid inspection of the data for gross regional features. To fulfill the needs of a more specific and thorough interpretation, the raw symbol maps should be modified using the field and analytical data provided in the data listings and any other knowledge available.

The data listings contain notes on survey and analytical methods, raw data listings with legend and statistics for total data as well as for data grouped on the basis of rock type.

To comprehensively study an area, all available geological, environmental and recorded data should be utilized. The data separation by bedrock type can often be improved by constructing new data subsets and deriving local threshold levels based on the most detailed and up-to-date knowledge available.

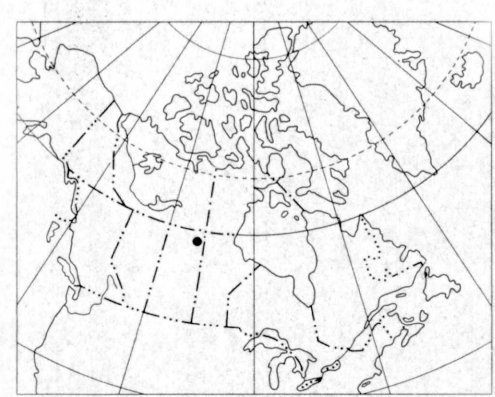


Copies of map material and listings of field observations and analytical data from which the material was prepared may be available at users expense by application to:

K.G. Campbell Corporation
880 Wellington Street
Box No. 238
Ottawa, Ontario
K1R 6K7

The data is also available in digital form. For further information please contact:

The Director
Computer Science Centre
Department of Energy, Mines and Resources,
Ottawa, Ontario
K1A 0E4



Elevations in feet above mean sea level

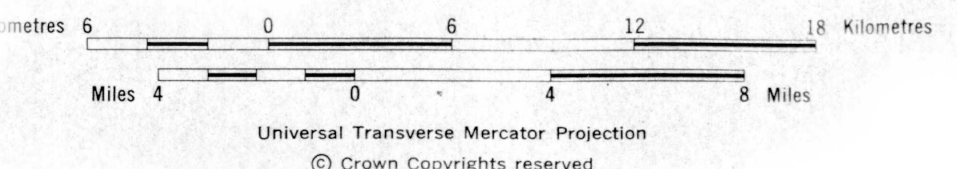
Mean magnetic declination 1978, 18°11.4' East,
decreasing 6.3' annually. Readings vary
from 18°20.0' in the SE corner to
20°11.4' in the NW corner of
the map-area

MANGANESE (ppm)

OPEN FILE 508

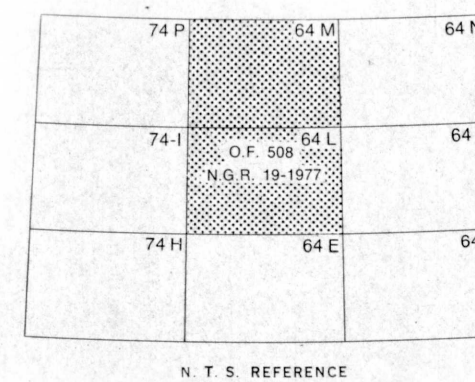
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 19-1977
URANIUM RECONNAISSANCE PROGRAM

Scale 1:250,000



Universal Transverse Mercator Projection
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Base-map assembled by the Geological Cartography
Unit from maps published at the same scale by
the Surveys and Mapping Branch in 1962, 1963



This map forms one of a series of 14 sheets released under the Geological
Survey of Canada, Open File 508. The Open File consists of maps of 11
elements, each for lake sediments, 2 elements for lake waters and sample
site location.

MANGANESE (ppm)

OPEN FILE 508

NORTHEASTERN SASKATCHEWAN, 1977

Geological Survey of Canada
Resource Geophysics and Geochemistry Division
and
Department of Mineral Resources
Saskatchewan Geological Survey

CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd.
Sample preparation by Golder Associates.
Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Barringer Research Ltd.

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carte sur papier