LEGEND

Note: This legend is common to National Geochemical Reconnaissance Map 12-1976, Open File 416 Map 13-1976, Open File 417

HELIKIAN (UPPER PROTEROZOIC)

Diabase, gabbro and diabasic gabbro dykes [GBBR]

PROTEROZOIC

HELIKIAN (MIDDLE PROTEROZOIC)

GUBANAT GROUP (10-22)

21 — Conglomerate, pebble sandstone, some intercalated sandstone. In part, may be older than 20 or 19 [GUAN]

20 — Mainly porphyritic (quartz and/or feldspar, biotite and/or pyroxene) igneous rocks; probably mainly extrusive, but in part intrusive; some breccia, tuff, agglomerate; minor sub-porphyritic syenitic rocks [GUFP]

19 — Sandstone and pebbly sandstone, grit, arkose; siltstone and minor breccia, probably includes some undifferentiated conglomerate (18 and/or 21) [GUCL]

18 — Conglomerate; intercalated gritty sandstone [CGLM]

ARCHEAN (LOWER PROTEROZOIC)

13 — Granite, granodiorite and allied rocks: in large part gneissic and tectonic, with many bands of partly assimilated schists, gneiss, amphibolite; stretched-frame granite-gneiss; mylonitic gneisses of granitic composition; some cyrosome granulite. In part probably older than 9 and, possibly, 7 [GRNT]

12 — Gneiss, schist, amphibolite, and granulite derived mainly from sedimentary and volcanic rocks of Archaean and/or Lower Proterozoic (Aphebian) ages; some impure quartzite and greywacke; commonly with some granitic material [GNSS]

3 — Intermediate to basic volcanic rocks (greenstones) and derived supracrustal rocks of the Yellowknife Group and equivalents (Prince Albert Group of Hudson belt); some rhyolite, tuff, agglomerate; minor quartz-mica schist and magnetite iron-formation (Southern Keewatin); undifferentiated basic intrusions. May be younger in part (Aurwitz) [VOLC]

8 — Diorite and gabbro in granitic and gneissic terranes [DORT]

7 — Basic syenites, diorites, gabbros [GBBR]

Geological contact
Fault
Mineral prospect

Geological cartography by the Geological Survey of Canada

Legend and geology for the geochemical map by R.G. Garrett,from map 1216A of G.S.C. Memoir 350 by G.M. Wright

Base-map at the same scale published by the Mapping and Charting Establishment, M.C.E., 1966

Mean magnetic declination 1977, 3°00' East increasing 2.3' annually. Readings vary from 1°26.6' in the SE corner to 5°09.4' in the NW corner of the map area

Elevations in feet above mean sea-level

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 based on a geometric progression (ratio 1.5) 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 compilation, below the detection limit. The data are grouped on a semi-logarithmic scale, i.e. 1,2,3,5,10,15,20,30,50 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. The eighth symbol is used for the mode group as defined by the histogram and the ninth symbol for the median value of the data as defined by the 0.5 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 a 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 overlying geology, and other environmental factors. Therefore, the raw data symbol maps are only a first step in the search for anomalies related to mineral occurrences. 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. To assist in the appraisal and modification of the data in terms of the symbol map bedrock geology, a table of thresholds for each element, applicable to the bedrock units predominantly derived from each mapped bedrock unit, or broad lithologic unit, again based on the total survey data, is presented below the histograms. This table can be used alone, or in conjunction, with the sample location map and data listings to indicate above threshold samples where they occur on the map. In many bedrock units, the data will be found to be polymodal, and the use of a single threshold of each geochemical levels on bedrock type may not be a big enough