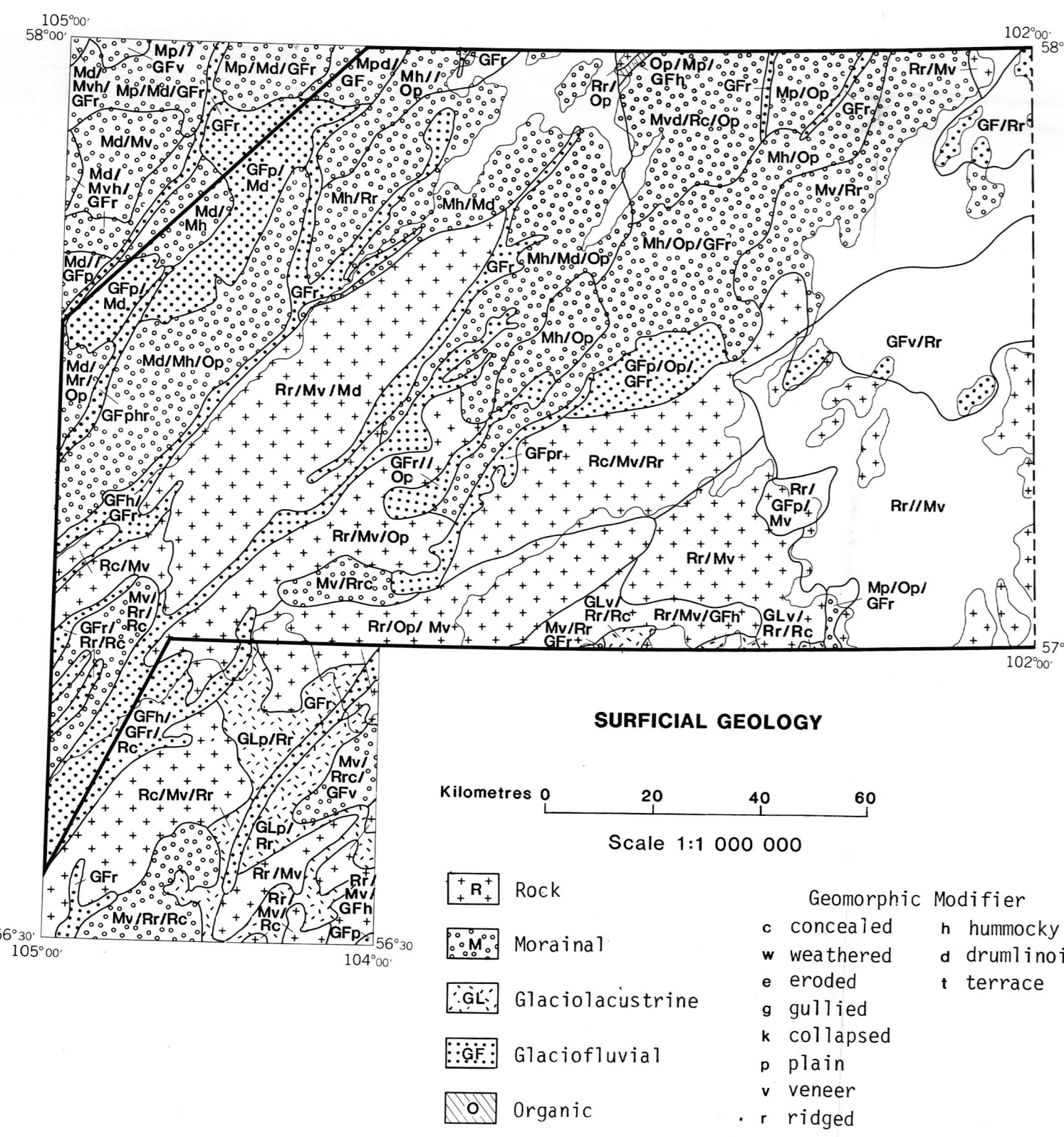
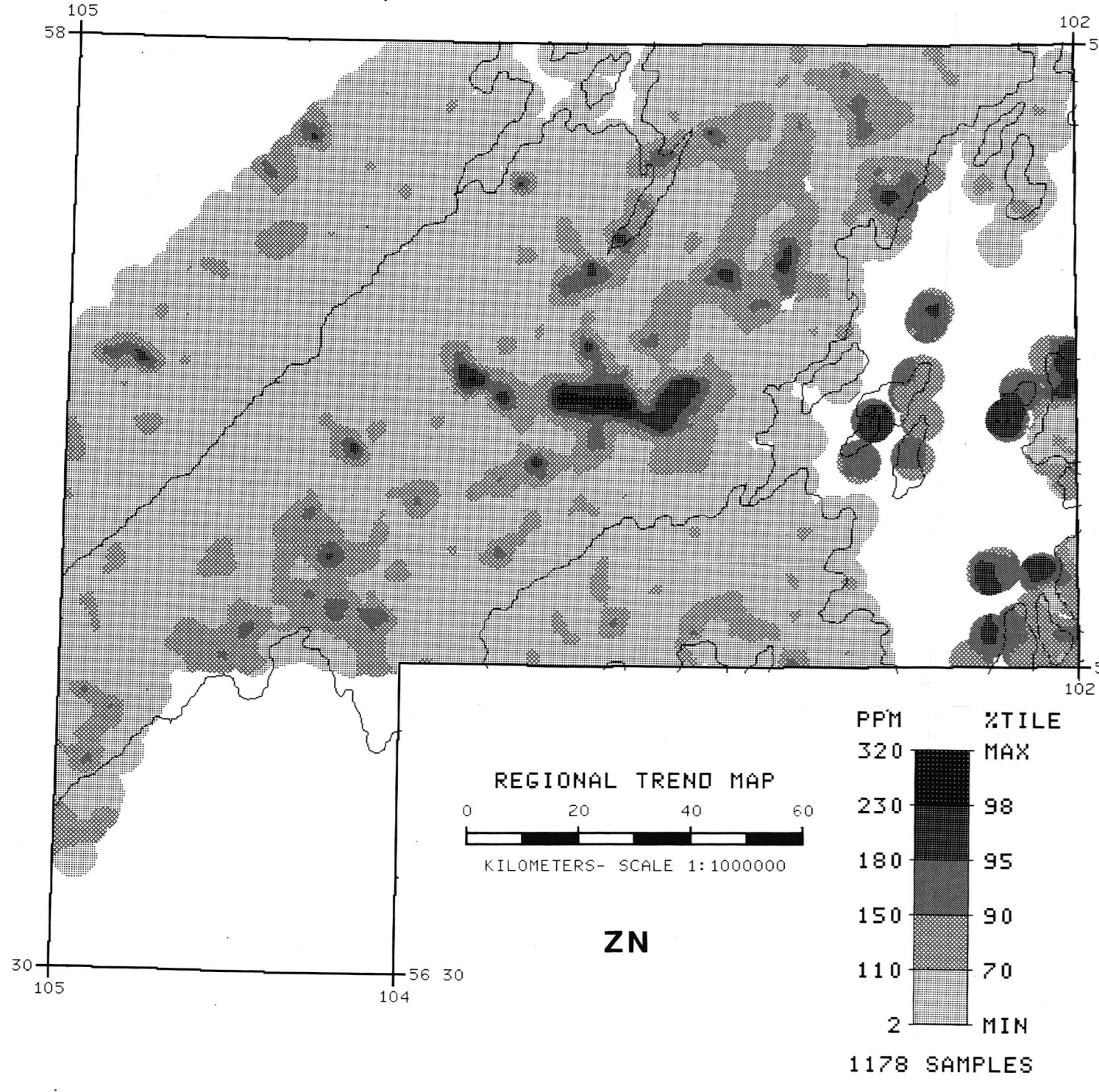
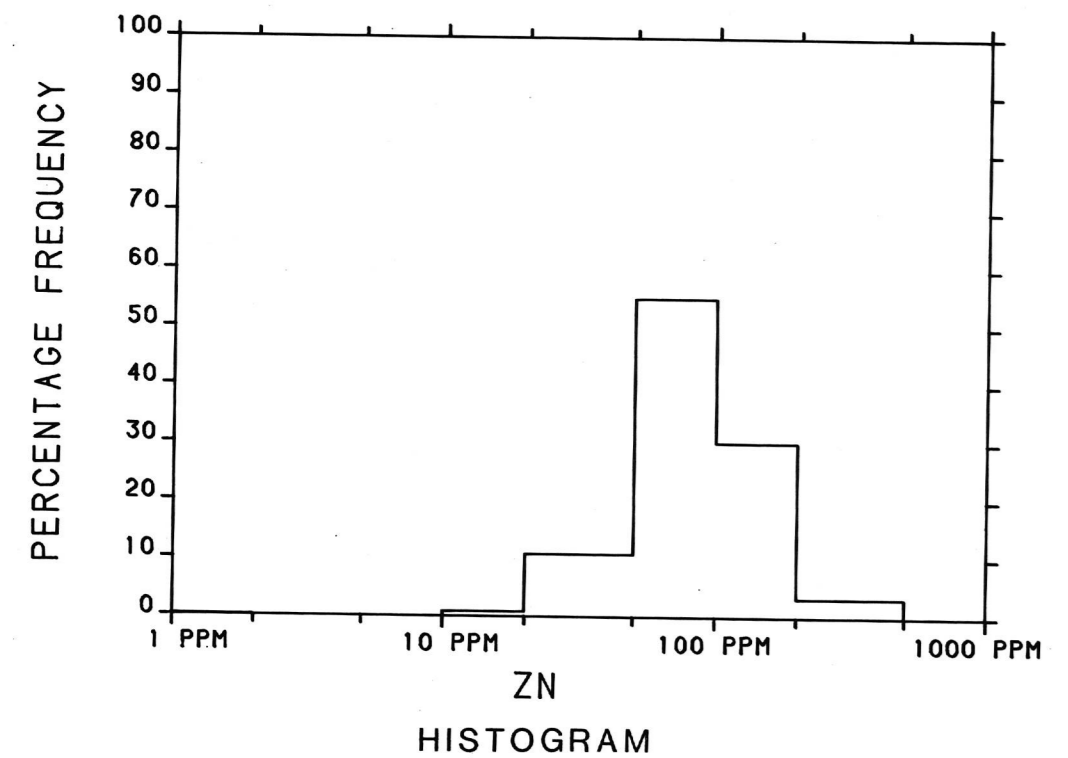
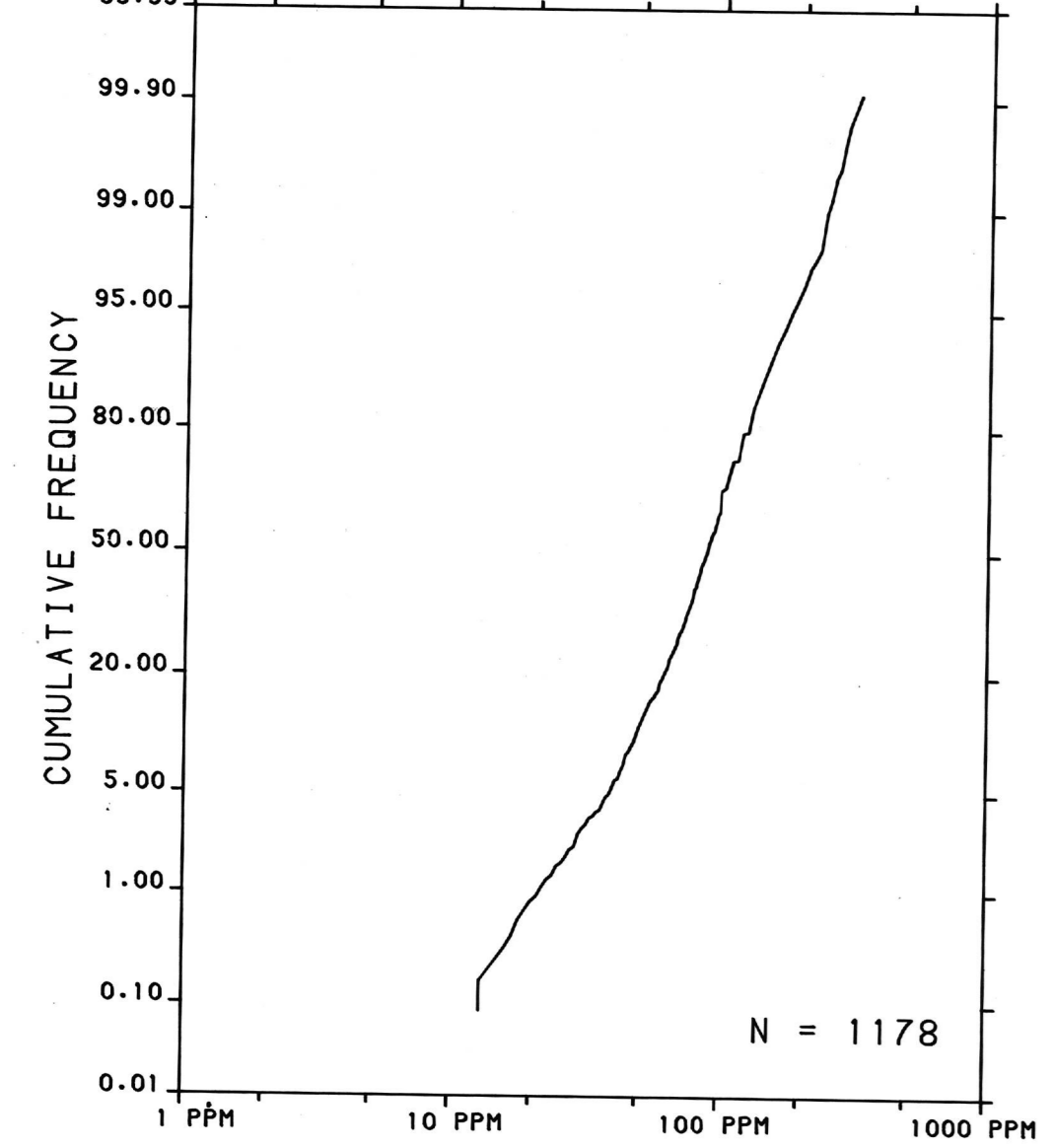
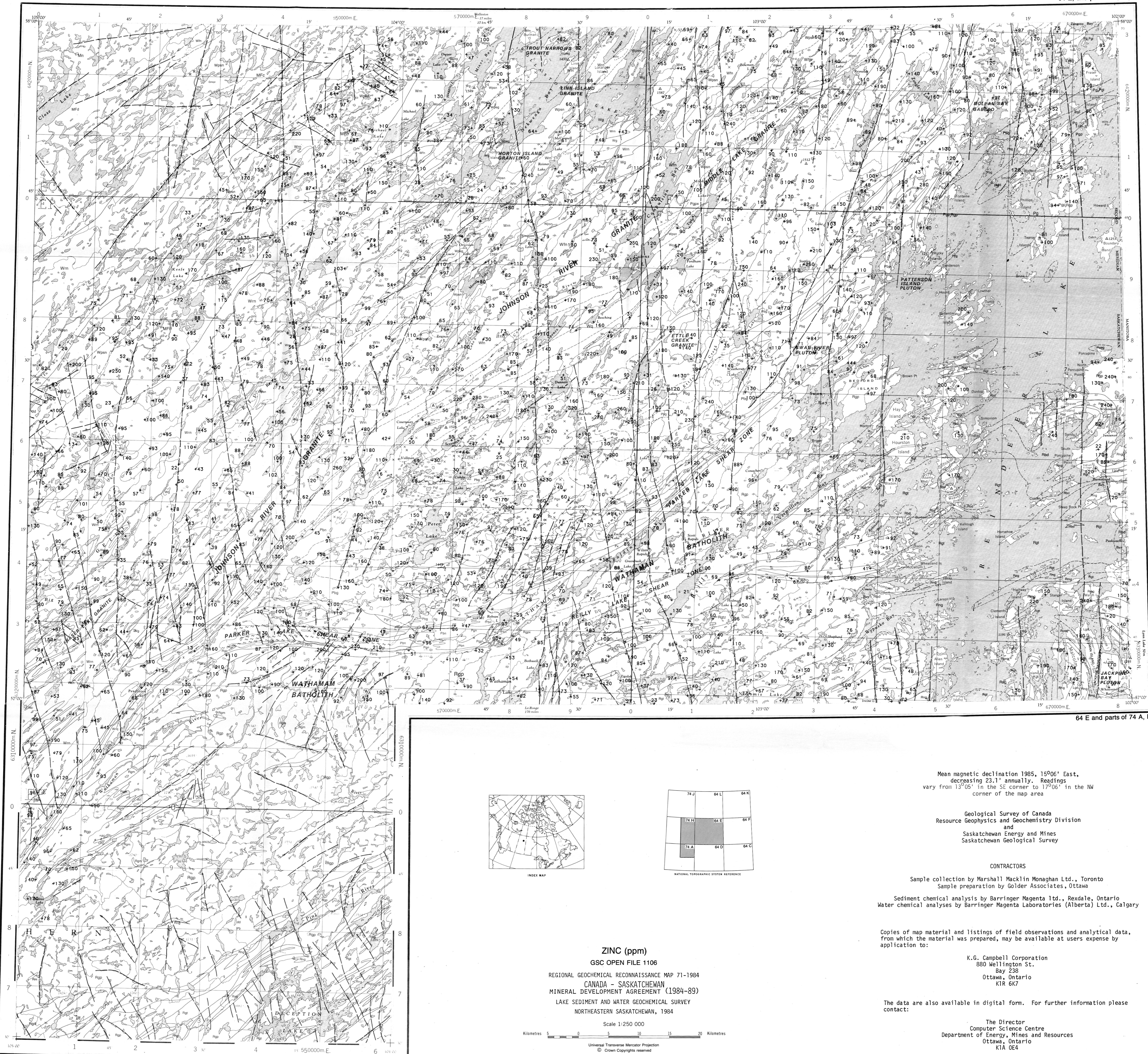


64 E, and parts of 74 A, H



Complexes: where two or more classes of terrain are interspersed in a mosaic or repeating pattern the proportion of each component in the combination is given in a three-position designation set off by slashes denoting arbitrary percentage limits. For example, 'Mw/O/R' means that at least 60% of the area is underlain by this till, with up to 40% boggy areas, and less than 15% scattered rock outcrops. 'Rc/R' indicates more than 60% bedrock concealed by vegetation and less than 15% outcrop.



Mean magnetic declination 1985, 15°06' East, decreasing 23.1' annually. Readings vary from 13°05' in the SE corner to 17°06' in the NW corner of the map area

Geological Survey of Canada
Resource Geophysics and Geochemistry Division
Saskatchewan Energy and Mines
Saskatchewan Geological Survey

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Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:

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

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LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance Map 71-1994, Open File 1106

| | | | |
|---|--|---|--|
| NEOHELIXIAN/HADRYANIAN | | LA RONDE DOMAIN | |
| dd | Dolomite: fine to coarse grained, massive to weakly foliated; siltstone + hypersthene | Lot | Granulite or quartz monzonite medium grained well foliated to gneiss; biotite + hornblende; abundant inclusions of quartzite and gneiss |
| PALEOHELIXIAN | | WATHAMIAN BATHOLITH (c. 180 Ma) | |
| MF | Mafic: fine to coarse grained, massive to weakly foliated; locally pebbly | Lgn | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| ATAMARCA GROUP | | ROTTERSTON COMPLEX | |
| MF | Mafic: fine to coarse grained, massive to weakly foliated; locally pebbly | Rng | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| LATE APHEBIAN (HUDSONIAN) | | PETER LAKE DOMAIN | |
| x | Quartzite: mylonite and sheared rocks of the Needle Falls Zone; Zone derived from rocks of the Wathaman and these Late Domains | Px | Mylonite: fine grained to aplastic; weakly to finely laminated; interbedded mafic and felsic gneiss |
| WOLLASTON DOMAIN | | HUDSONIAN WITH POSSIBLE ARCHEAN ELEMENTS | |
| Wpoc | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Pgn | Felsic gneiss: medium grained, strongly foliated to gneiss; locally mylonitic; granitic rock + biotite + hornblende + quartz + plagioclase + orthopyroxene |
| Wq | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Pn | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| Wpdr | Biotite: medium to coarse grained, massive to weakly foliated; locally pebbly | Pch | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| ROTTERSTON DOMAIN | | PROBABLY EARLY APHEBIAN (LATE ARCHEAN?) | |
| Rgp | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly | Wt | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| Rgn | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly | Ww | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| Rbd | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | UNCONFORMITY | |
| Rpog | Granite: medium to coarse grained, massive to weakly foliated; locally pebbly | ARCHEAN DEFORMED AND METAMORPHOSED WITH APHEBIAN SUPRACRUSTAL ROCKS DURING THE HUDSONIAN CROGENEY | |
| Rgr | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Wh | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| EARLY TO MIDDLE APHEBIAN | | PROBABLY MAINLY ARCHEAN | |
| Wsh | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Pqg | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| Wch | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Pp | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly |
| Wm | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | SYMBOLS | |
| Wpn | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Single bedrock exposure: approximate area of abundant bedrock exposure | |
| WATHAMIAN BATHOLITH (c. 180 Ma) | | Geological contact: defined to approximate inferred | |
| Wgn | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Structural lineament: possible to probable fault, as inferred from geological, geophysical and/or aerophotographic evidence | |
| Wch | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Major fold axial trace: antiform, synform | |
| Wm | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Trend and approximate dip of dominant foliation surface: dip (strike) (dip) (trend) (dip) (trend) (dip) (trend) | |
| Wpn | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | Mineral prospect | |
| LAKE SEDIMENT AND WATER GEOCHEMISTRY | | Sample location (geochronology) | |
| Wz | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | 1. 1975-85: M. A. Macdonald, W. J. H. Macdonald, and M. J. Macdonald, 1985: map location is approximate centre of collecting area | |
| Ww | Quartzite: medium to coarse grained, massive to weakly foliated; locally pebbly | 2. 1975-85: M. A. Macdonald, W. J. H. Macdonald, and M. J. Macdonald, 1985: map location is approximate centre of collecting area | |
| LAKE SEDIMENT AND WATER GEOCHEMISTRY | | * No analytical result | |

* A mnemonic name recorded as rock types as part of field observations

This legend was modified and the geology derived for these geochemical maps from Compilation Bedrock Geology Series 228A, 229A and 232A, Saskatchewan Energy and Mines, Saskatchewan Geological Survey

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1106. The Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location