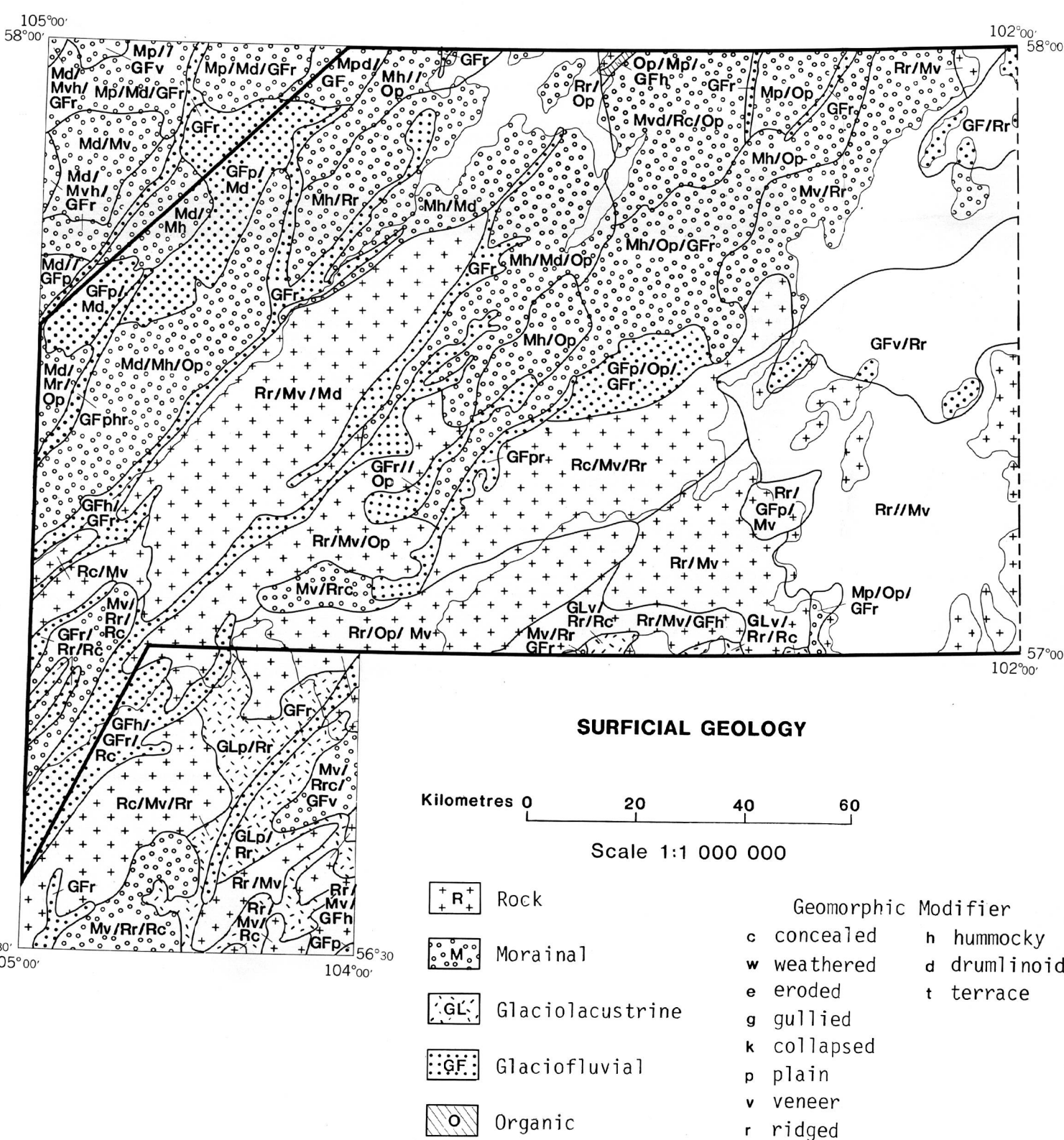
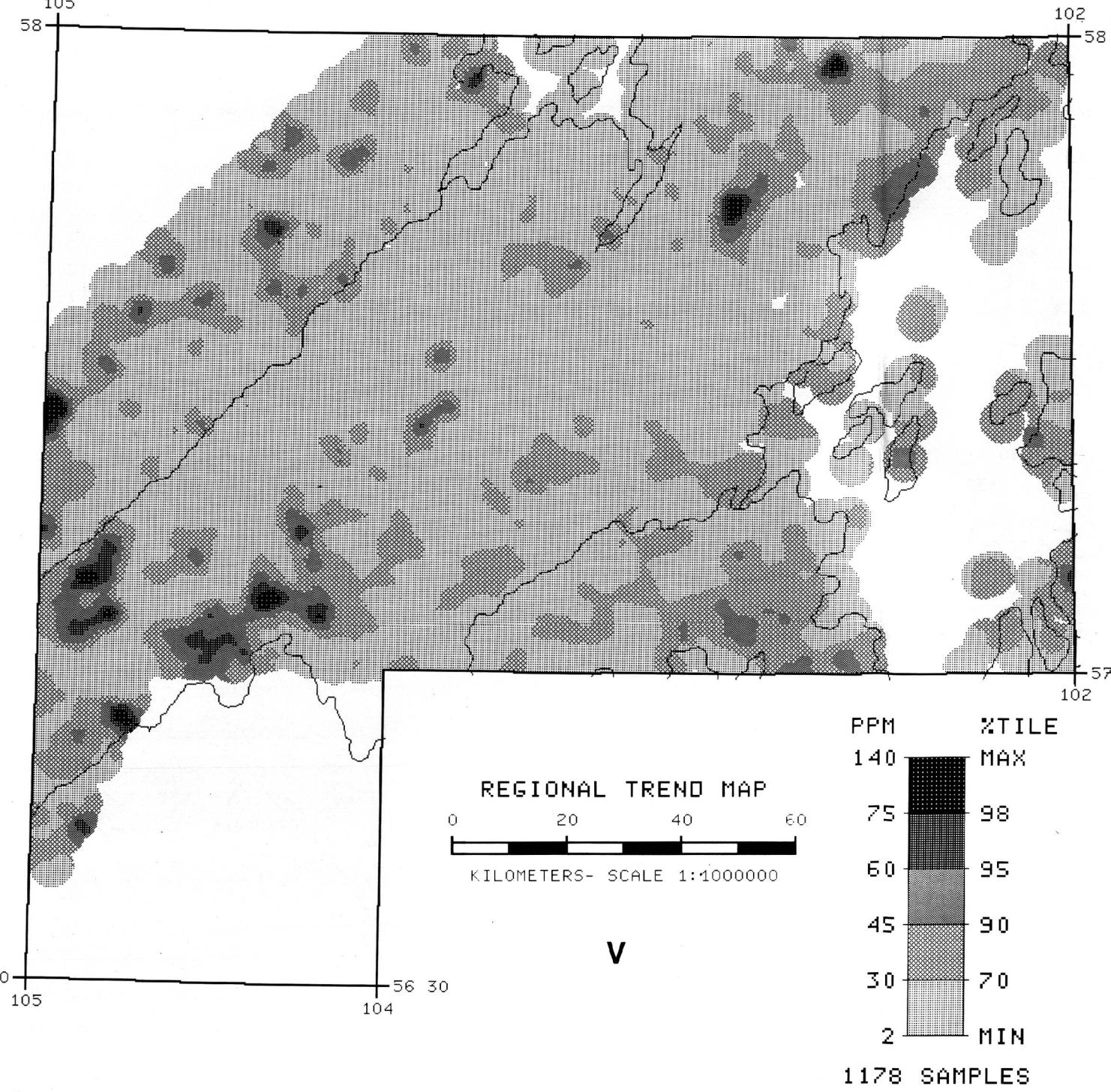
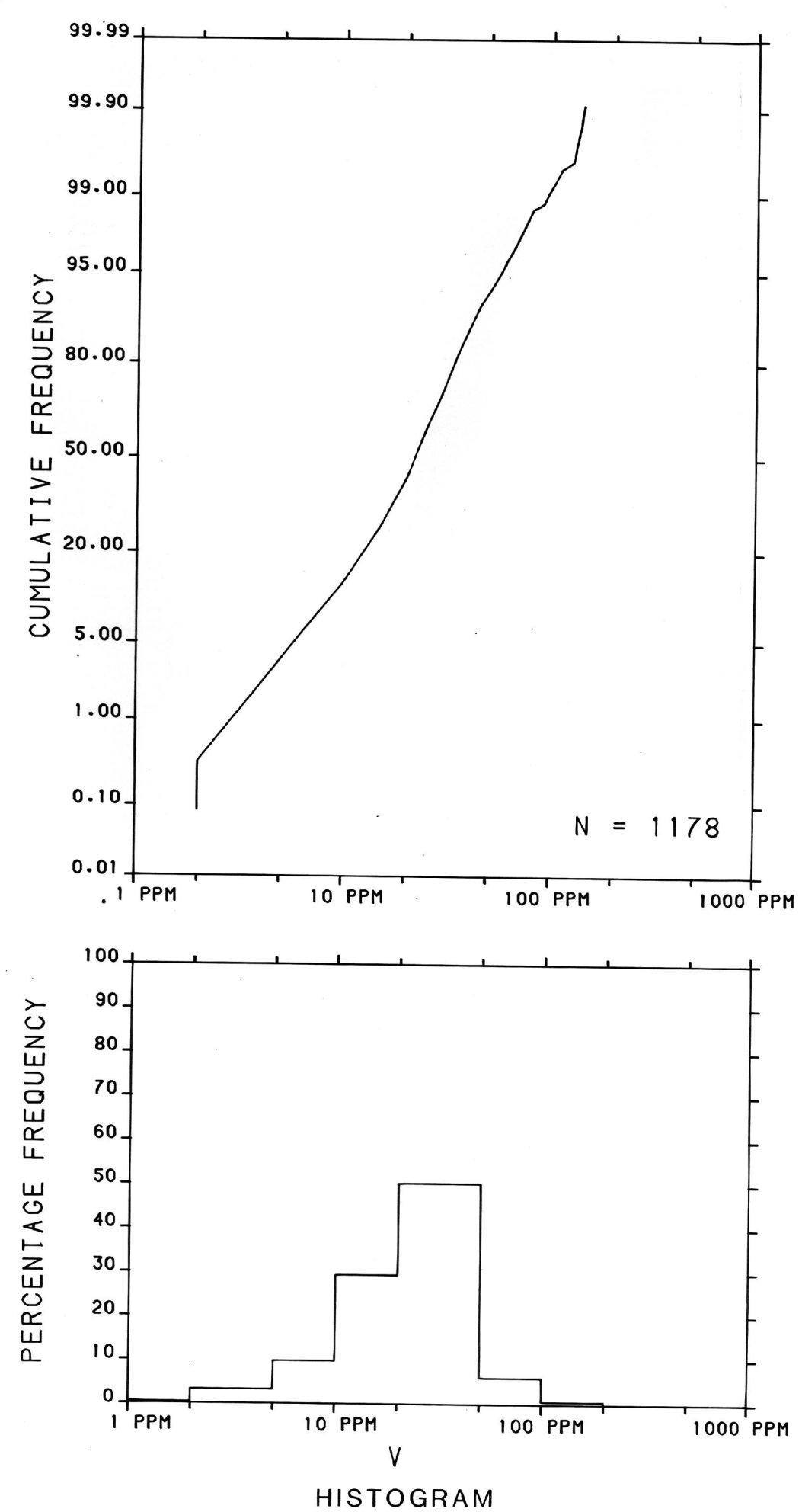
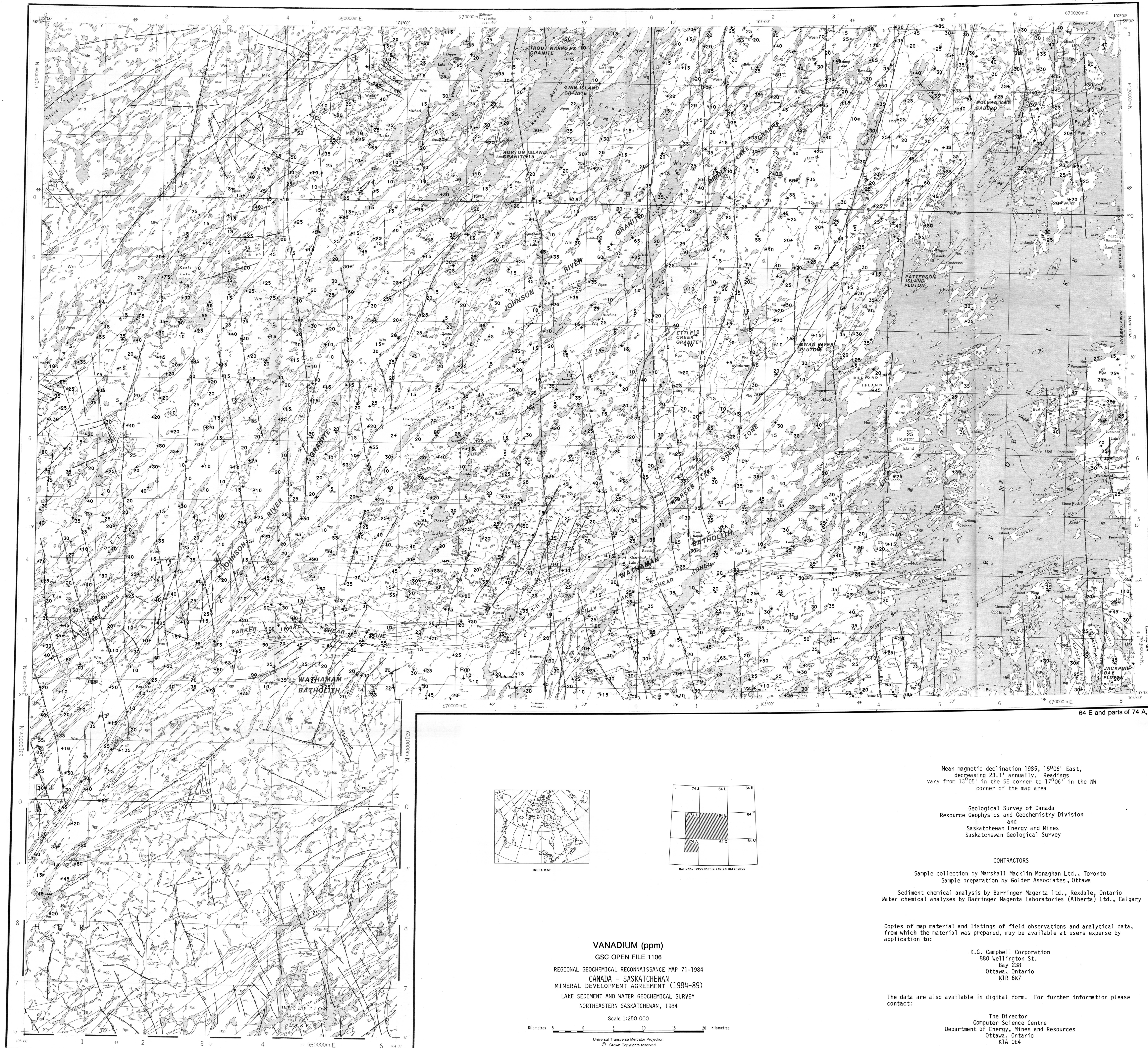


64 E, and parts of 74 A, H



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, "Mv/O/R" means that at least 60% of the area is underlain by thin 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.



LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance Map 71-1984, Open File 1106

NEOHELMKAMP/HADRYANAN

- ds: Basaltic gneiss fine to coarse grained, massive to weakly foliated; s: shive; b: biotite + hypersthene

PALEOHELMKAMP

- MF: Mafic gneiss; F: felsic gneiss; C: calcic gneiss; S: schist; G: gneiss; M: mafic gneiss; H: hornblende gneiss; B: biotite gneiss; K: kaolinite gneiss; L: limestone; P: phyllite; Q: quartzite; R: rhyolite; T: tuffite; V: volcanic; W: wackestone; X: xolite; Y: yellowstone; Z: zirconite

ATLABASKA GROUP

- Wg: Wollaston Group; Wm: Wollaston mafic; Wf: Wollaston felsic; Wc: Wollaston calcic; Ws: Wollaston shale; Wv: Wollaston volcanic; Wt: Wollaston tuffite; Wp: Wollaston phyllite; Wq: Wollaston quartzite; Wr: Wollaston rhyolite; Wl: Wollaston limestone; Wk: Wollaston kaolinite; Wg: Wollaston gneiss; Wm: Wollaston mafic gneiss; Wf: Wollaston felsic gneiss; Wc: Wollaston calcic gneiss; Ws: Wollaston shale; Wv: Wollaston volcanic; Wt: Wollaston tuffite; Wp: Wollaston phyllite; Wq: Wollaston quartzite; Wr: Wollaston rhyolite; Wl: Wollaston limestone; Wk: Wollaston kaolinite

LATE APHEBIAN (HUDSONIAN)

- X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

WOLLASTON DOMAIN

- Wg: Wollaston Group; Wm: Wollaston mafic; Wf: Wollaston felsic; Wc: Wollaston calcic; Ws: Wollaston shale; Wv: Wollaston volcanic; Wt: Wollaston tuffite; Wp: Wollaston phyllite; Wq: Wollaston quartzite; Wr: Wollaston rhyolite; Wl: Wollaston limestone; Wk: Wollaston kaolinite

ROTTENSTONE DOMAIN

- Rg: Rottenstone Group; Rm: Rottenstone mafic; Rf: Rottenstone felsic; Rc: Rottenstone calcic; Rs: Rottenstone shale; Rv: Rottenstone volcanic; Rt: Rottenstone tuffite; Rp: Rottenstone phyllite; Rq: Rottenstone quartzite; Rr: Rottenstone rhyolite; Rl: Rottenstone limestone; Rk: Rottenstone kaolinite

LA RONDE DOMAIN

- Lg: LaRonde Group; Lm: LaRonde mafic; Lf: LaRonde felsic; Lc: LaRonde calcic; Ls: LaRonde shale; Lv: LaRonde volcanic; Lt: LaRonde tuffite; Lp: LaRonde phyllite; Lq: LaRonde quartzite; Lr: LaRonde rhyolite; Ll: LaRonde limestone; Lk: LaRonde kaolinite

APHEBIAN (HUDSONIAN) WITH POSSIBLE ARCHEAN ELEMENTS

- A: Archean gneiss; B: Biotite gneiss; C: Calcic gneiss; D: Dioritic gneiss; E: Epidioritic gneiss; F: Felsic gneiss; G: Garnetiferous gneiss; H: Hornblende gneiss; I: Ilmenite gneiss; J: Jaspiferous gneiss; K: Kaolinite gneiss; L: Limestone; M: Mafic gneiss; N: Nepheline gneiss; O: Orthopyroxene gneiss; P: Phyllite; Q: Quartzite; R: Rhyolite; S: Schist; T: Tuffite; U: Ultramafic gneiss; V: Volcanic; W: Wackestone; X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

EARLY TO MIDDLE APHEBIAN

- W: Wollaston Group; Wm: Wollaston mafic; Wf: Wollaston felsic; Wc: Wollaston calcic; Ws: Wollaston shale; Wv: Wollaston volcanic; Wt: Wollaston tuffite; Wp: Wollaston phyllite; Wq: Wollaston quartzite; Wr: Wollaston rhyolite; Wl: Wollaston limestone; Wk: Wollaston kaolinite

PETER LAKE DOMAIN

- P: Peter Lake Group; Pm: Peter Lake mafic; Pf: Peter Lake felsic; Pc: Peter Lake calcic; Ps: Peter Lake shale; Pv: Peter Lake volcanic; Pt: Peter Lake tuffite; Pp: Peter Lake phyllite; Pq: Peter Lake quartzite; Pr: Peter Lake rhyolite; Pl: Peter Lake limestone; Pk: Peter Lake kaolinite

ARCHEAN AND ARCHEAN ROCKS, STRONGLY REWORKED PROBABLY LATE IN THE HUDSONIAN

- A: Archean gneiss; B: Biotite gneiss; C: Calcic gneiss; D: Dioritic gneiss; E: Epidioritic gneiss; F: Felsic gneiss; G: Garnetiferous gneiss; H: Hornblende gneiss; I: Ilmenite gneiss; J: Jaspiferous gneiss; K: Kaolinite gneiss; L: Limestone; M: Mafic gneiss; N: Nepheline gneiss; O: Orthopyroxene gneiss; P: Phyllite; Q: Quartzite; R: Rhyolite; S: Schist; T: Tuffite; U: Ultramafic gneiss; V: Volcanic; W: Wackestone; X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

PROBABLY EARLY APHEBIAN (LATE ARCHEAN)

- A: Archean gneiss; B: Biotite gneiss; C: Calcic gneiss; D: Dioritic gneiss; E: Epidioritic gneiss; F: Felsic gneiss; G: Garnetiferous gneiss; H: Hornblende gneiss; I: Ilmenite gneiss; J: Jaspiferous gneiss; K: Kaolinite gneiss; L: Limestone; M: Mafic gneiss; N: Nepheline gneiss; O: Orthopyroxene gneiss; P: Phyllite; Q: Quartzite; R: Rhyolite; S: Schist; T: Tuffite; U: Ultramafic gneiss; V: Volcanic; W: Wackestone; X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

UNCONFORMABLE

- U: Unconformable gneiss

ARCHEAN, DEFORMED AND METAMORPHIC WITH APHEBIAN SUPRACRUSTAL ROCKS DURING THE HUDSONIAN OROGENY

- A: Archean gneiss; B: Biotite gneiss; C: Calcic gneiss; D: Dioritic gneiss; E: Epidioritic gneiss; F: Felsic gneiss; G: Garnetiferous gneiss; H: Hornblende gneiss; I: Ilmenite gneiss; J: Jaspiferous gneiss; K: Kaolinite gneiss; L: Limestone; M: Mafic gneiss; N: Nepheline gneiss; O: Orthopyroxene gneiss; P: Phyllite; Q: Quartzite; R: Rhyolite; S: Schist; T: Tuffite; U: Ultramafic gneiss; V: Volcanic; W: Wackestone; X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

PROBABLY MAINLY ARCHEAN

- A: Archean gneiss; B: Biotite gneiss; C: Calcic gneiss; D: Dioritic gneiss; E: Epidioritic gneiss; F: Felsic gneiss; G: Garnetiferous gneiss; H: Hornblende gneiss; I: Ilmenite gneiss; J: Jaspiferous gneiss; K: Kaolinite gneiss; L: Limestone; M: Mafic gneiss; N: Nepheline gneiss; O: Orthopyroxene gneiss; P: Phyllite; Q: Quartzite; R: Rhyolite; S: Schist; T: Tuffite; U: Ultramafic gneiss; V: Volcanic; W: Wackestone; X: Xenocrystic gneiss; Y: Yellowstone gneiss; Z: Zirconite gneiss

SYMBOLS

- Single bedrock exposure: approximate area of abundant bedrock exposure
- Geological contact: defined to approximate: inferred
- Structural lineament: possible to probable fault, as interpreted from geological, geophysical and/or aerobio evidence
- Major fold axial trace: antiform, synform
- Trend and approximate dip of cleavage foliation surface: dip shallow (0-30°); moderate (30-60°); steep (60-84°); isoclinal (84-90°)
- Mineral prospect: 1. 100-1000 ppm; 2. 100-1000 ppm; 3. 100-1000 ppm; 4. 100-1000 ppm; 5. 100-1000 ppm; 6. 100-1000 ppm; 7. 100-1000 ppm; 8. 100-1000 ppm; 9. 100-1000 ppm; 10. 100-1000 ppm; 11. 100-1000 ppm; 12. 100-1000 ppm; 13. 100-1000 ppm; 14. 100-1000 ppm; 15. 100-1000 ppm; 16. 100-1000 ppm; 17. 100-1000 ppm; 18. 100-1000 ppm; 19. 100-1000 ppm; 20. 100-1000 ppm; 21. 100-1000 ppm; 22. 100-1000 ppm; 23. 100-1000 ppm; 24. 100-1000 ppm; 25. 100-1000 ppm; 26. 100-1000 ppm; 27. 100-1000 ppm; 28. 100-1000 ppm; 29. 100-1000 ppm; 30. 100-1000 ppm; 31. 100-1000 ppm; 32. 100-1000 ppm; 33. 100-1000 ppm; 34. 100-1000 ppm; 35. 100-1000 ppm; 36. 100-1000 ppm; 37. 100-1000 ppm; 38. 100-1000 ppm; 39. 100-1000 ppm; 40. 100-1000 ppm; 41. 100-1000 ppm; 42. 100-1000 ppm; 43. 100-1000 ppm; 44. 100-1000 ppm; 45. 100-1000 ppm; 46. 100-1000 ppm; 47. 100-1000 ppm; 48. 100-1000 ppm; 49. 100-1000 ppm; 50. 100-1000 ppm; 51. 100-1000 ppm; 52. 100-1000 ppm; 53. 100-1000 ppm; 54. 100-1000 ppm; 55. 100-1000 ppm; 56. 100-1000 ppm; 57. 100-1000 ppm; 58. 100-1000 ppm; 59. 100-1000 ppm; 60. 100-1000 ppm; 61. 100-1000 ppm; 62. 100-1000 ppm; 63. 100-1000 ppm; 64. 100-1000 ppm; 65. 100-1000 ppm; 66. 100-1000 ppm; 67. 100-1000 ppm; 68. 100-1000 ppm; 69. 100-1000 ppm; 70. 100-1000 ppm; 71. 100-1000 ppm; 72. 100-1000 ppm; 73. 100-1000 ppm; 74. 100-1000 ppm; 75. 100-1000 ppm; 76. 100-1000 ppm; 77. 100-1000 ppm; 78. 100-1000 ppm; 79. 100-1000 ppm; 80. 100-1000 ppm; 81. 100-1000 ppm; 82. 100-1000 ppm; 83. 100-1000 ppm; 84. 100-1000 ppm; 85. 100-1000 ppm; 86. 100-1000 ppm; 87. 100-1000 ppm; 88. 100-1000 ppm; 89. 100-1000 ppm; 90. 100-1000 ppm; 91. 100-1000 ppm; 92. 100-1000 ppm; 93. 100-1000 ppm; 94. 100-1000 ppm; 95. 100-1000 ppm; 96. 100-1000 ppm; 97. 100-1000 ppm; 98. 100-1000 ppm; 99. 100-1000 ppm; 100. 100-1000 ppm

CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd., Toronto
Sample preparation by Golder Associates, Ottawa

Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario
Water chemical analysis 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 USER EXPENSE BY APPLICATION TO:

K.G. Campbell Corporation
880 Wellington St.
Box 238
Ottawa, Ontario
K1R 6K7

THE DATA ARE 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

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
and
Saskatchewan Energy and Mines
Saskatchewan Geological Survey**

**VANADIUM (ppm)
GSC OPEN FILE 1106
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 71-1984
CANADA - SASKATCHEWAN
MINERAL DEVELOPMENT AGREEMENT (1984-89)
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTHEASTERN SASKATCHEWAN, 1984**

Scale 1:250 000

Universal Transverse Mercator Projection
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**VANADIUM (ppm)
GSC OPEN FILE 1106
NORTHEASTERN SASKATCHEWAN, 1984**

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.

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.

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

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