

NOTE: THIS MAP HAS BEEN PRODUCED BY THE COMPILATION OF DATA FROM THE GEOGRAPHIC INFORMATION SYSTEM (GIS) OF THE YUKON TERRITORY. THE YUKON TERRITORY GOVERNMENT ACCEPTS NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS IN THIS MAP.

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CONTOUR INTERVAL 500 FEET Elevations in Feet above Mean Sea Level North American Datum 1983 Transverse Mercator Projection Universal Transverse Mercator Grid Zone 8

Scale 1:50,000 0 10 20 30 km 0 5 10 15 miles

References: Bacon, W.R., 1938. Geology of the Mayo District, Yukon Territory. Unpublished B.Sc. thesis, University of British Columbia.

Boyle, R.W., 1963. Keno Hill-Galena Hill area, Yukon. GSC Paper 63-23, 42-44.

Boyle, R.W., 1965. Geology, geochemistry, and origin of the lead-zinc-silver deposits of the Keno Hill-Galena Hill area, Yukon. GSC Paper 65-23, 42-44.

Boyle, R.W., 1967. Geology of Keno Hill map-area (105M14), Yukon. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada. Open File 1967-23.

Boyle, R.W., Gleason, C.F., Lynch, J.J., and Champ, W.H., 1971. Heavy minerals data, geochemical analysis, Keno-Hill District, Yukon Territory. Geological Survey of Canada, Open File 1971-23.

Burn, C.R., 1988. The development of near-surface ground ice during the Holocene at sites near Mayo, Yukon Territory. In: Geological Science, Vol. 3, p. 31-38.

Burn, C.R., 1990. Implications for paleoenvironmental reconstruction of recent low-ice development at Mayo, Yukon Territory. Permafrost and Periglacial Processes, Vol. 1, p. 3-14.

Burn, C.R., 1991. Permafrost and ground ice conditions reported during recent geotechnical investigations in the Mayo District, Yukon Territory. Permafrost and Periglacial Processes, Vol. 2, p. 259-268.

Burn, C.R., 1992. Recent ground warming inferred from the temperature in permafrost near Mayo, Yukon Territory. In: Periglacial geomorphology, J.C. Dixon and Abrahams, A.D. (eds.), John Wiley and Sons, Chichester, U.K., p. 327-350.

Underwood McLean Ltd., 1983. Yukon River Basin Flood Risk Study. Yukon River Basin Study, Hydrology Work Group Report No. 1, Environment Canada, Indian and Northern Affairs Canada, Canadian Yukon Economic Development Agreement, Geoscience Open File 1983-23.

Verchuren, J.P., 1976. Spillway flood forecasting for Mayo and Ross rivers, Yukon Territory. Department of Civil Engineering, University of Alberta.

Vongpatikul, S., Hergert, G., and Mougou, C., 1992. Quaternary high-altitude glacial deposits in the Yukon Territory. Phase 1, Vol. 1, Summary, Vol. II - Technical Reports, Exploration and Geological Services Division, Yukon Region, Department of Indian and Northern Affairs Canada, Open File 1992-23.

Wheeler, J.O., Brookfield, A.E., Goble, H., Monger, J.W.H., Tipper, H.W., and Woodsworth, G.J., 1991. Terrane map of the Canadian Cordillera. Geological Survey of Canada, Map 1712A, (includes all of Yukon).

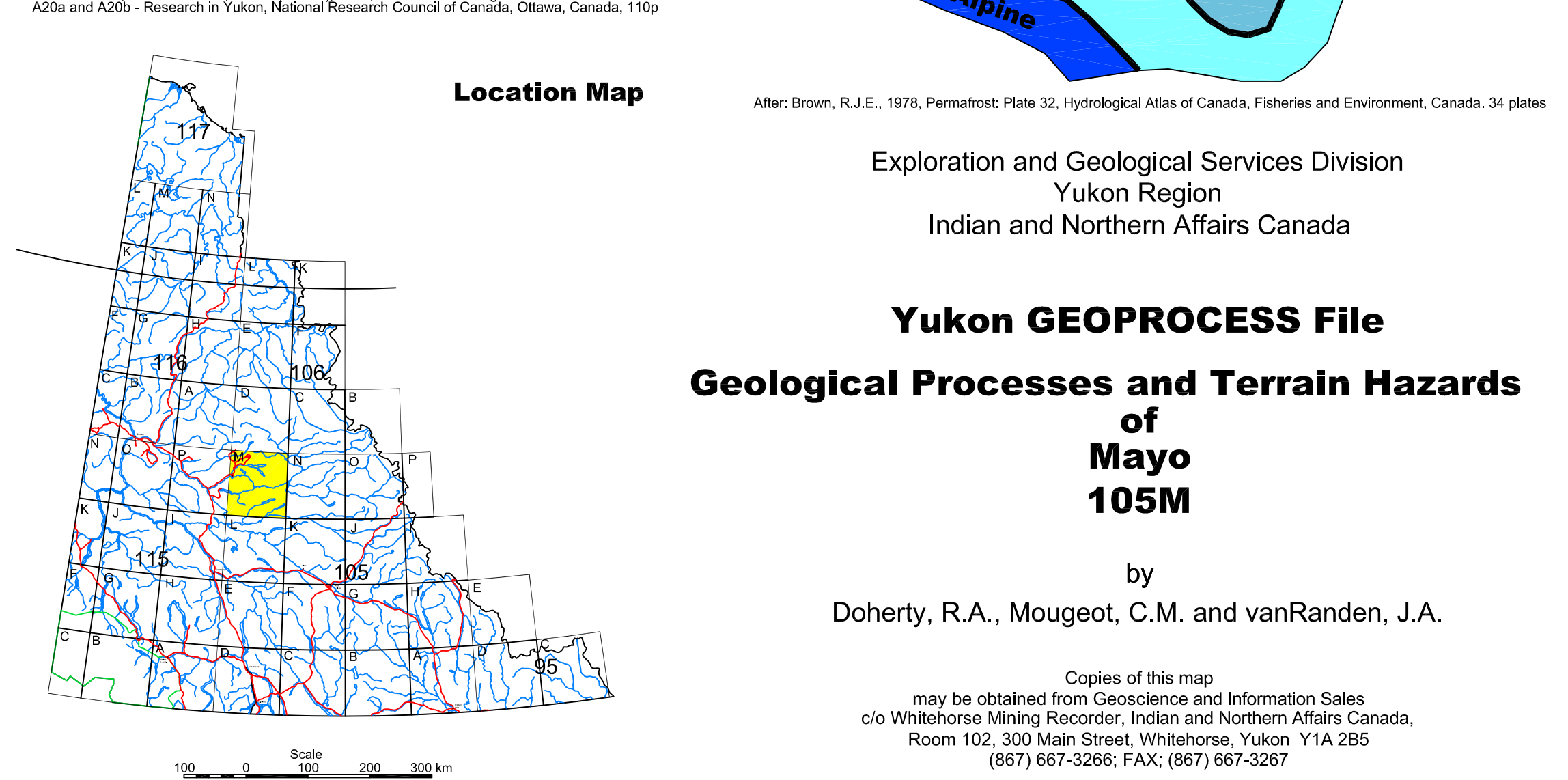
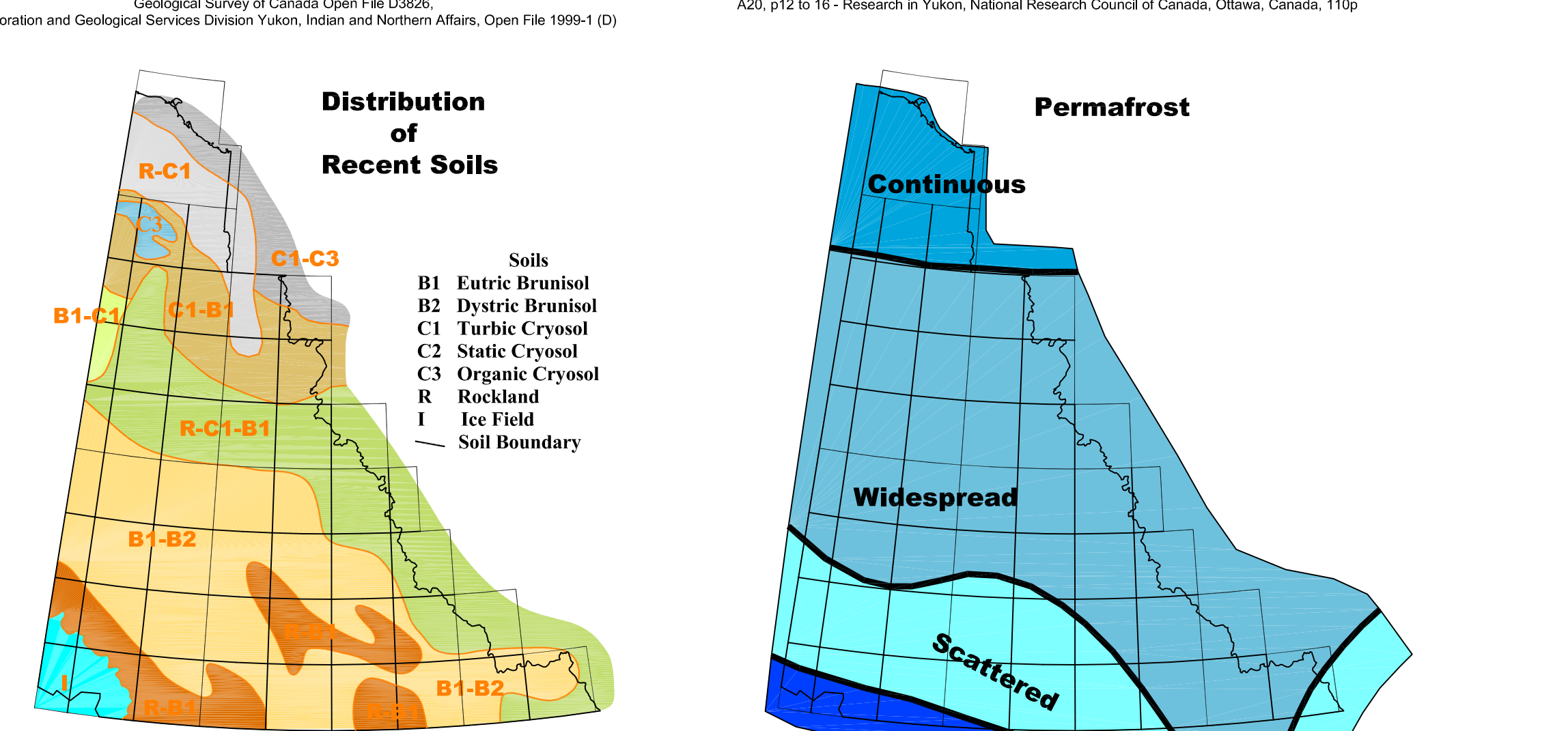
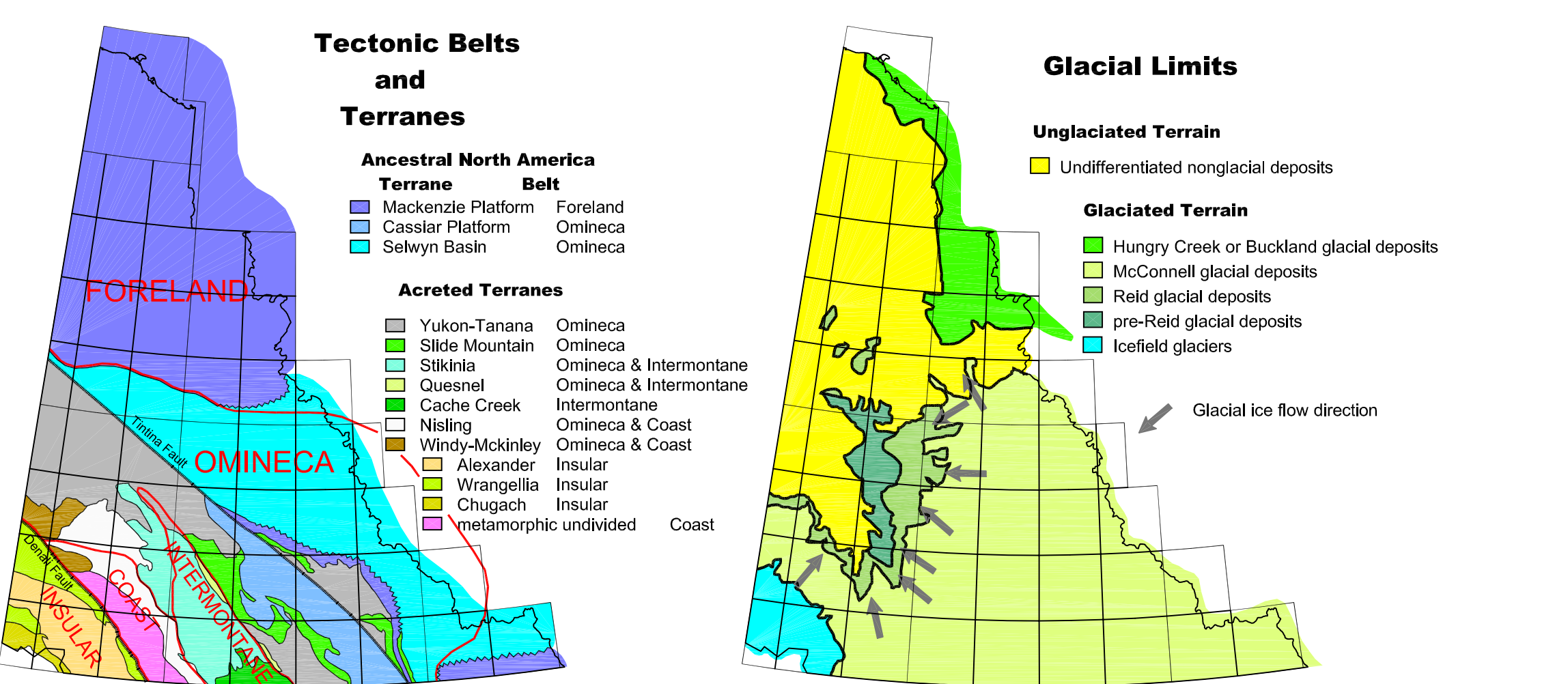
Yukon MINEFILE, 1994. 105M a map of the Yukon Territory and Northern Affairs Canada, Yukon Region, Indian and Northern Affairs Canada, Bulletin 235, 78 p. (includes map - NTS 105M, 105N, 106G, 106B, 106C, 106E, 106F)

NOTE: A new digital compilation of Yukon Geology is now available by Steve Gorday and Andrew Makepeace (GSC Open File D3826 and/or DIAND Open File 1999-101), and more recent MINEFILE updates should also be verified (Yukon MINEFILE, 2001).

LEGEND

Legend table with columns: LEGEND TERRAIN HAZARDS, TERRAIN HAZARDS, ASSOCIATED RISK LEVELS/COMMENTS, LEGEND GEOLOGICAL PROCESSES, GEOLOGICAL PROCESSES, INFERRED HAZARDS, LEGEND SEISMIC EVENTS, SEISMIC EVENTS, MAGNITUDE REPRESENTED, OTHER FEATURES.

NOTE: Where areas have more than one identified process or hazard, the colour of the encompassing polygon is assigned based on a hierarchical scheme relating to the severity of the hazard. The relative order of severity is: Terrain Hazards (Mass Movement Processes then Fluvial Processes then Arctic, Alpine and Periglacial Processes) followed by Geological Processes.



Exploration and Geological Services Division Yukon Region Indian and Northern Affairs Canada Yukon GEOPROCESS File Geological Processes and Terrain Hazards of Mayo 105M

by Doherty, R.A., Mougou, C.M. and vanRanden, J.A.

Copies of this map may be obtained from Geoscience and Information Sales, c/o Whitehorse Mining Recorder, Indian and Northern Affairs Canada, Room 102, 300 Main Street, Whitehorse, Yukon Y1A 2B5 (867) 667-2266, FAX: (867) 667-2267

Recommended citation: Doherty, R.A., Mougou, C.M. and vanRanden, J.A., 1998. Yukon GEOPROCESS File (2002). Geological Processes and Terrain Hazards of Mayo, 105M Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, 1:250,000 scale.