

Cross-eroded outcrop of metasedimentary rocks on the Barr Forest Access Road, north of the Montreal River, showing evidence of two phases of ice flow: 1) older flow towards 230°, and 2) younger flow towards 205° (NTS 31MIS).

Broad flat expanses of eroded metasedimentary rocks are well exposed on the Roosevelt Forest Access Road, east of Highway 11. Bedrock at this site is striated at 155° (NTS 31MIS).

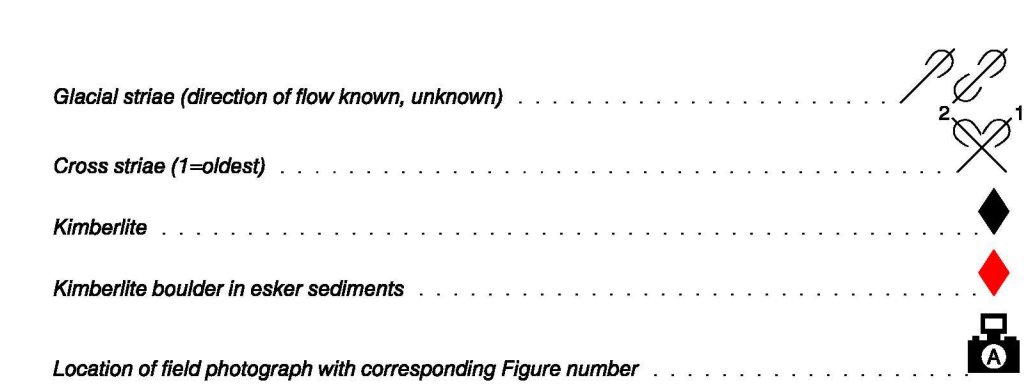
Cross-eroded bedrock showing evidence of three phases of ice flow is well exposed on the access road to the Temagami Fire Tower: 1) oldest flow oriented towards 255°; 2) intermediate flow towards 180°; and 3) youngest flow trending 155° (NTS 31MIS).

SUMMARY

The Geological Survey of Canada (GSC) and the Ontario Geological Survey (OGS) have conducted regional kimberlite indicator mineral surveys using 48 GSC and seven additional GSCS in the area south of the Ottawa-Timiskaming kimberlite (New Liskeard to Marten River). These surveys will potentially identify new targets for diamond exploration. As part of the regional sampling program, ending the first data for the region (Vallée, 1995; Vallée and McClenaghan, 1996) were compiled with new data collected in the summer of 2001. These data, combined with the existing knowledge of the Quaternary geology and history of the region (Vallée, 1995), provide explorers and prospectors with a reasonable ice flow model for diamond prospecting.

REFERENCES

Vallée, J.J., 1995. Surficial geology, Haliburton, Ontario-Quebec; Geological Survey of Canada, Map 1642A, scale 1:100 000.
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1996. Géomorphologie et géologie du Quaternaire du Timiskaming, Québec et Ontario; Geological Survey of Canada, Bulletin 62, 200 p.
Vallée, J.J. and McClenaghan, M.B., 1995. Sequence of ice flow in the Abitibi-Timiskaming region: implications for mineral exploration and dispersal of kimberlite rocks from the Hudson Bay Basin, Quebec and Ontario; Geological Survey of Canada, Open File 3053, scale 1:500 000.



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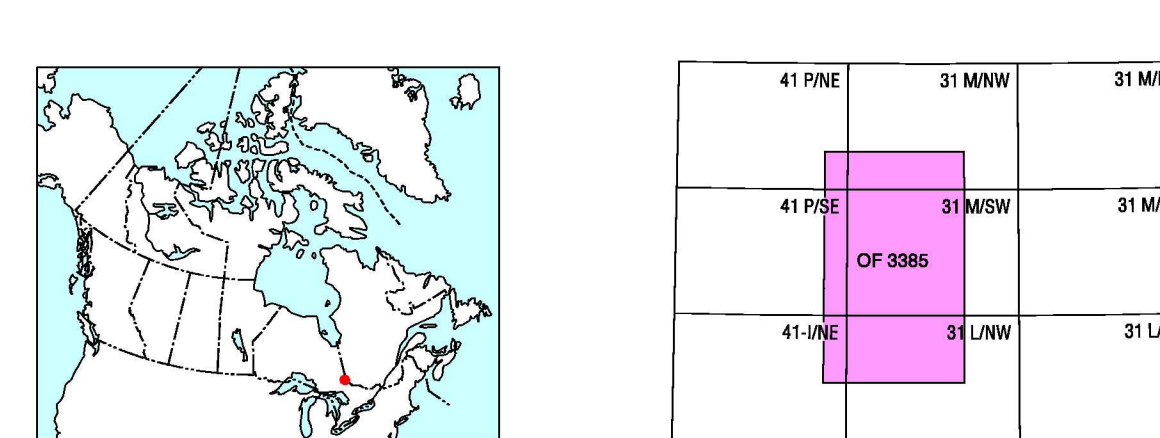
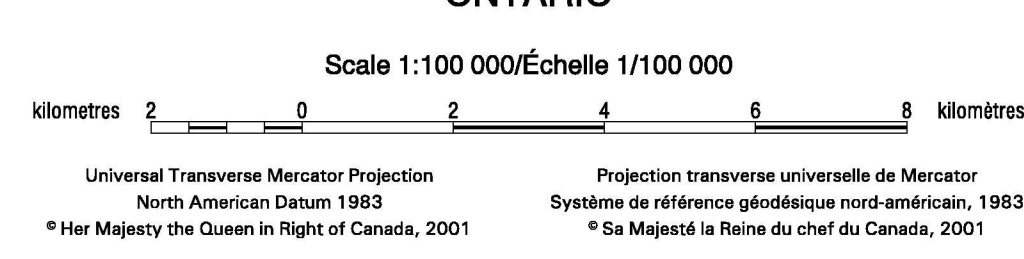
This map was produced from processes in conformance with the Cartographic Services Section Quality Management System, Ottawa, registered to the Quality System ISO 9001:1994 standards

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by ESS info

Mean magnetic declination 2001, 11°15' W, increasing 1.7° annually. Readings vary from 11°19' W in the SW corner to 12°27' W in the NE corner of the map

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SURFICIAL GEOLOGY
ICE FLOW INDICATORS FOR THE
NEW LISKEARD-TEMAGAMI AREA
ONTARIO



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