

Southern New Brunswick compilation and correlation project by the New Brunswick Department of Natural Resources and Energy

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The compilation and correlation project of southern New Brunswick geology, which is jointly funded by the New Brunswick Department of Natural Resources and Energy and the Cooperative Agreement on Mineral Development, is about two-thirds complete. To date, preliminary maps at a scale of 1:50 000 and 1:250 000 have been compiled and field checked for most of NTS map sheets 21 G and parts of 21 H and 21 B.

Field work, aided by U-Pb dates has resulted in major revisions in stratigraphy, correlations and metallogenic implications of some areas. The most significant revisions include: (1) delineation of the extensive base-metal- and gold-rich, Lower Ordovician Annidale belt along strike to the northeast of the St. Croix Terrane; (2) definition and correlation of the Silurian and gold-bearing Ordovician units in the

St. Croix Terrane northwest of the Saint George Batholith; (3) refinement of stratigraphy and correlations in the Mascarene belt; and (4) expansion of Cambrian (to possibly Late Precambrian) designations to many of the stratified rocks in the Long Reach area on both sides of the Saint John River. The latter are correlated with similar base-metal-bearing rocks to the northeast and southwest along the entire southern margin of the Mascarene belt.

The final product of this project will be publication of coloured maps at a scale of 1:250 000 with accompanying descriptive reports, geological compilation maps at a scale of 1:50 000 and several papers dealing with the U-Pb dating program and with specific aspects of southern New Brunswick geology.