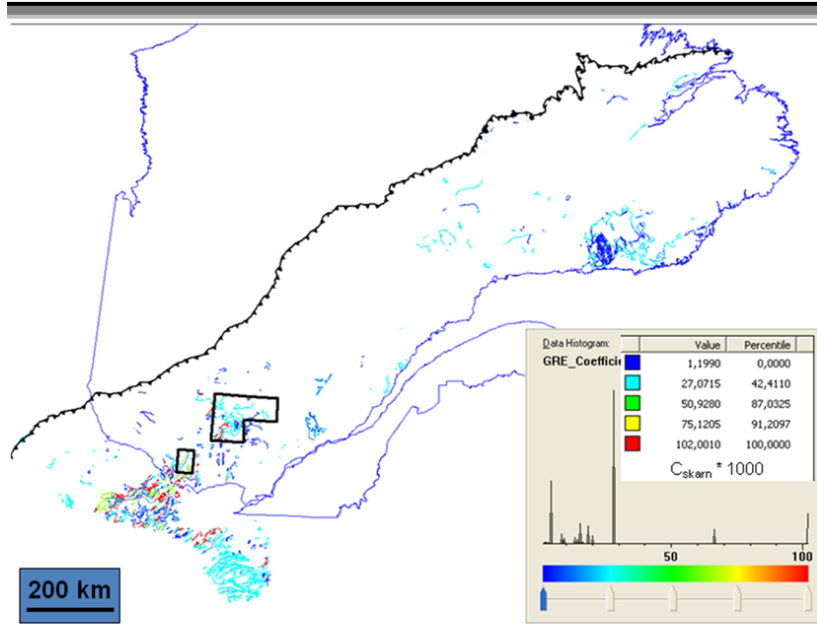


**2007-8: New exploration models in the Grenville Province: Opportunities for skarn deposits**

The objective of this project is to evaluate the potential for skarn-type mineralisation in the Grenville Province. Using the SIGEOM geological maps, areas with favourable combinations of intrusive and reactive rocks were identified. A favourability map of the sites was produced for the entire Grenville Province (figure attached), based on the following criteria: proximity to reactive rocks, favourable geochemistry of the intrusions, known presence of skarn or indicator minerals and nearness to graphite. A favourability coefficient was generated for the skarns based on the presence of favorable lithologies and other criteria (e.g. Au, Cu, Mo, W and/or Zn in the secondary environment).



Map of coefficient of favourability for skarn in the Grenville Province. The two boxes represent Fort Coulonge and Mont-Laurier areas.

The two main areas showing potential are the Wakeham terrane on the Côte-Nord and the Central Metasedimentary Belt in southwestern Quebec. A more detailed study of the latter was carried out in two smaller areas, namely Mont-Laurier and Fort Coulonge (Gatineau). The Mont-Laurier area shows good potential for copper-bearing skarns. The north-western section of the Ascension Supracrustal Suite shows the best combination of elements potentially associated with skarns and geological setting. The Fort-Coulonge area contains several metal anomalies in stream sediments that overlap areas with skarn potential. As in the Mont-Laurier area, it is mostly a potential for copper-bearing skarns with some potential for molybdenum and zinc. Exploration targets have been proposed for both areas (56 in total).

<b>Project 2007-8: Summary</b>	
<b>Objectives</b>	<ul style="list-style-type: none"> <li>To recognise areas on a regional scale that are of interest for skarn-type mineralisations in the Grenville (Cu, Mo, Au, W, Zn).</li> <li>On a smaller scale, to define targets of interest in the Mont-Laurier and Fort-Coulonge (Gatineau) areas.</li> </ul>
<b>Results</b>	<ul style="list-style-type: none"> <li>Literature review summarising the main characteristics of skarn-type deposits.</li> <li>Identification of lithologies favourable for skarn-type deposits.</li> <li>Establishment of a coefficient of favourability for skarns, based on the presence of favourable lithologies and other criteria.</li> <li>56 exploration targets were proposed for the Mont-Laurier and Gatineau areas.</li> </ul>