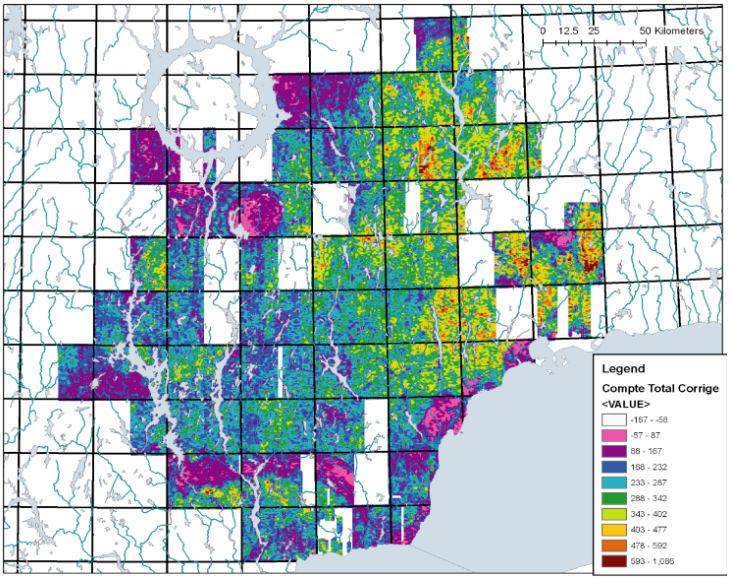
Project 2006-5: Integration of radiometric and magnetic data for the Grenville Province: Implications for U mineralisation

Project 2006-5 helped add value to older analog radiometric survey results from an industrial member of CONSOREM using the scanning procedure developed in project 2005-5. Thus, a new layer of information covering an area of approximately 300 km^2 of surveys (almost 50 50K maps) was generated.

This layer of unpublished information was integrated into other data sources (for example lake bottom sediments) to evaluate the potential for intragranitic uranium (Rössing-type). The metallogenic parameters of this type of mineralisation were defined; they helped generate several exploration targets.

Following the official presentation of the results in April 2007, more than 800 claims were staked on the many targets generated in the course of the project by members of CONSOREM.

The acquisition and upgrading of the radiometric data in the Grenville continued in 2007-2008 with an additional phase of validation and quality control. Evaluation of the mineral potential for IOCG-type Cu-Au-U and magmatic Cu-Ni-PGE was also carried out.



Map showing the total radiometric counts (corrected values) created using the CONSOREM method of digitising analog surveys (SOQUEM survey).

Summary: Project 2006-5	
Objectives	• To propose potential areas for uranium and iron oxide-type copper-gold-uranium deposit exploration in the Grenville Province.
Results	• 108 digitised radiometric surveys (each representing a half 50K sheet), covering 37 700 km of lines and 754 000 points with U, Th, K, Total and Altitude extracted at each point ; • Delineation of radiometric anomalies (109 targets proposed) ; • Evaluation of the mineral potential in the Grenville for Rössing-type uranium.
Innovations	• Creation of a method for the digitisation and normalisation of analog radiometric data; • Creation of a map showing the mineral potential in the Grenville for Rössing-type uranium.
Note	• 800 claims were staked by members of CONSOREM based on the results. • The project will continue in 2007-2008.