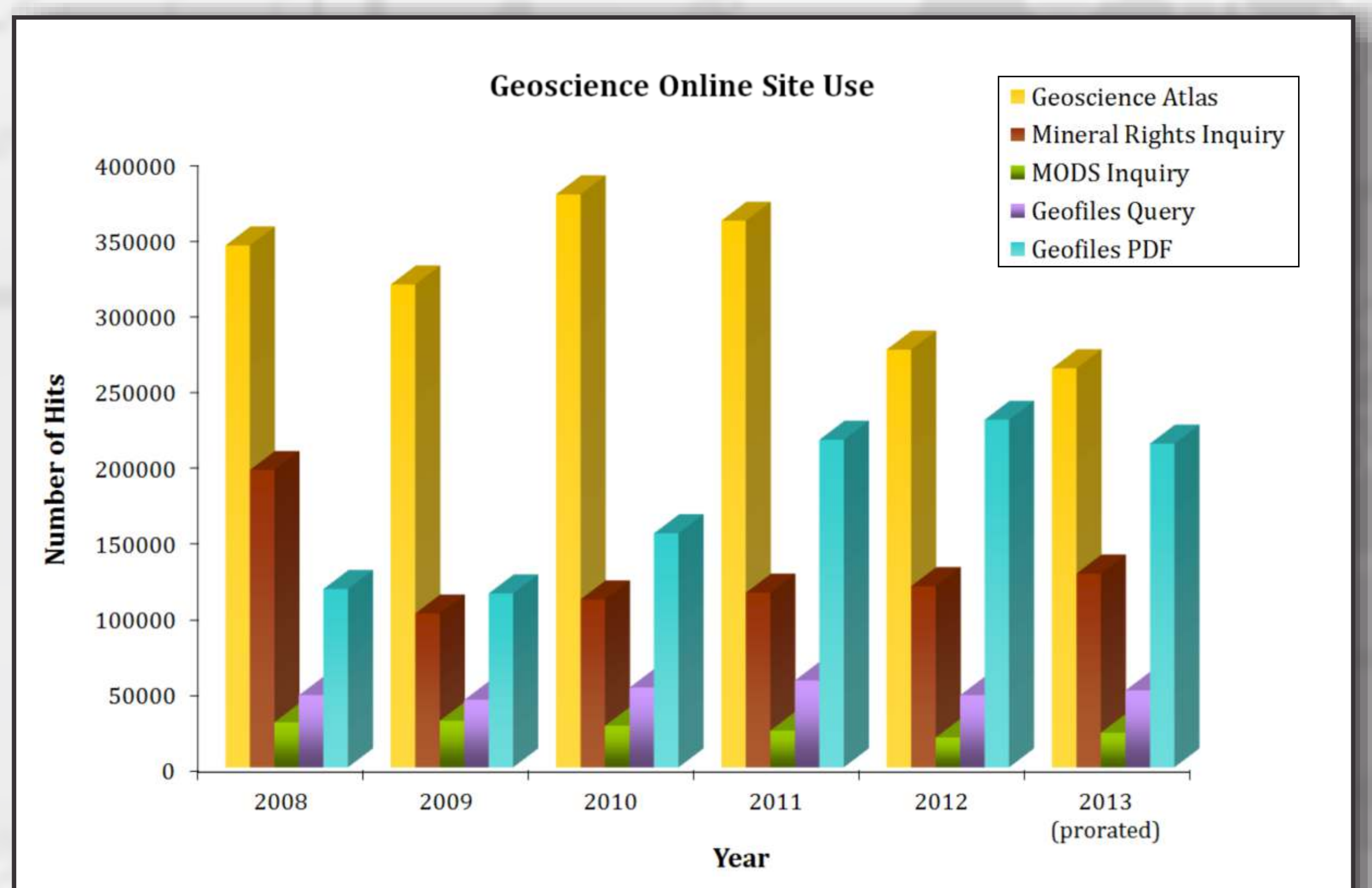


The gateway to the Geoscience Atlas is found at <http://gis.geosurv.gov.nl.ca/> or go to the Dept. of Natural Resources > Mines website and link through "GeoScience OnLine". Click on "Interactive Maps" or the map on the left to open the Atlas.

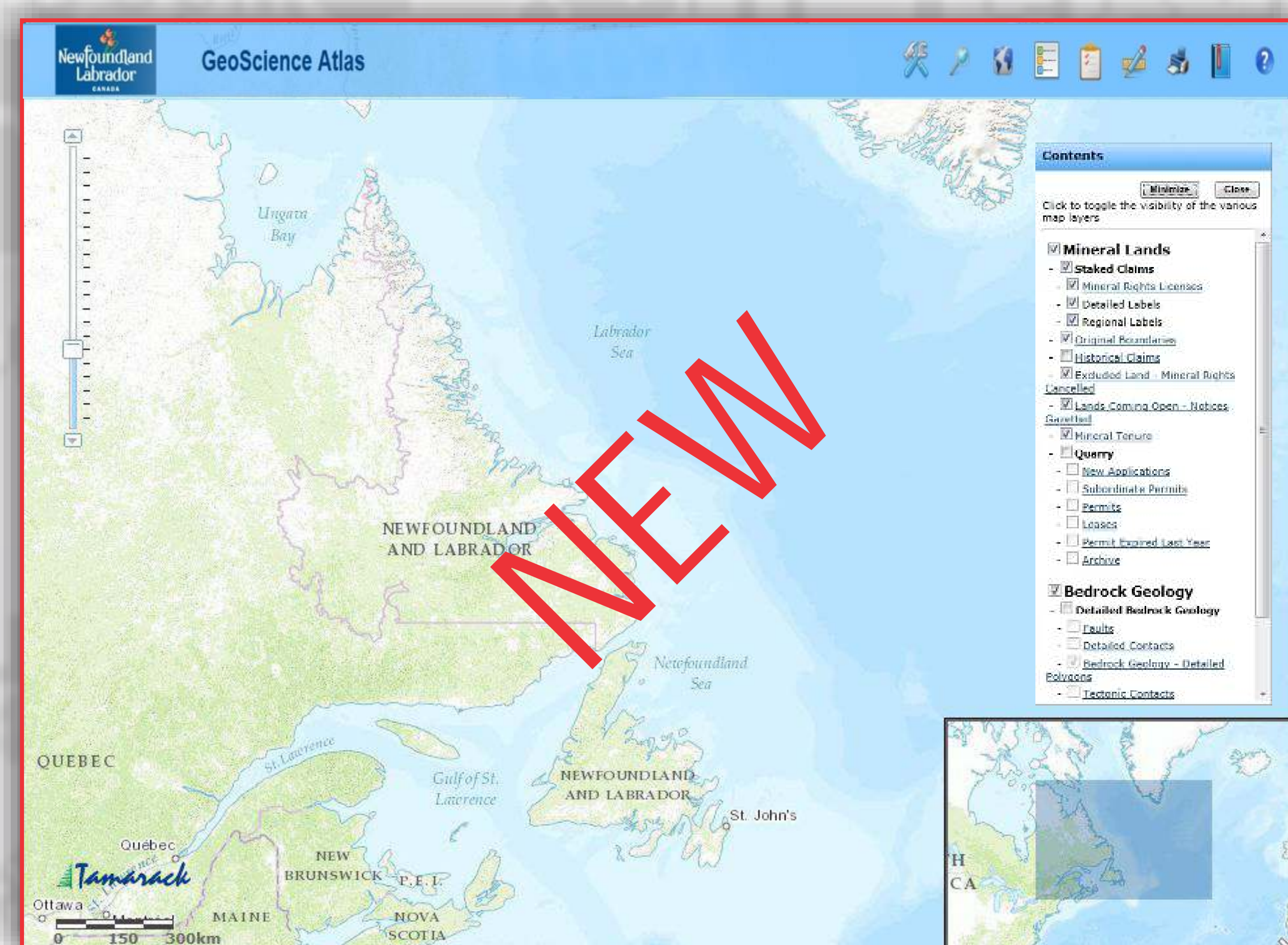


GeoScienceOnLine site use, highlighting the use of the Geoscience Atlas, Mineral Rights inquiries, MODS inquiries, Geofile queries and Geofile PDF's downloaded.

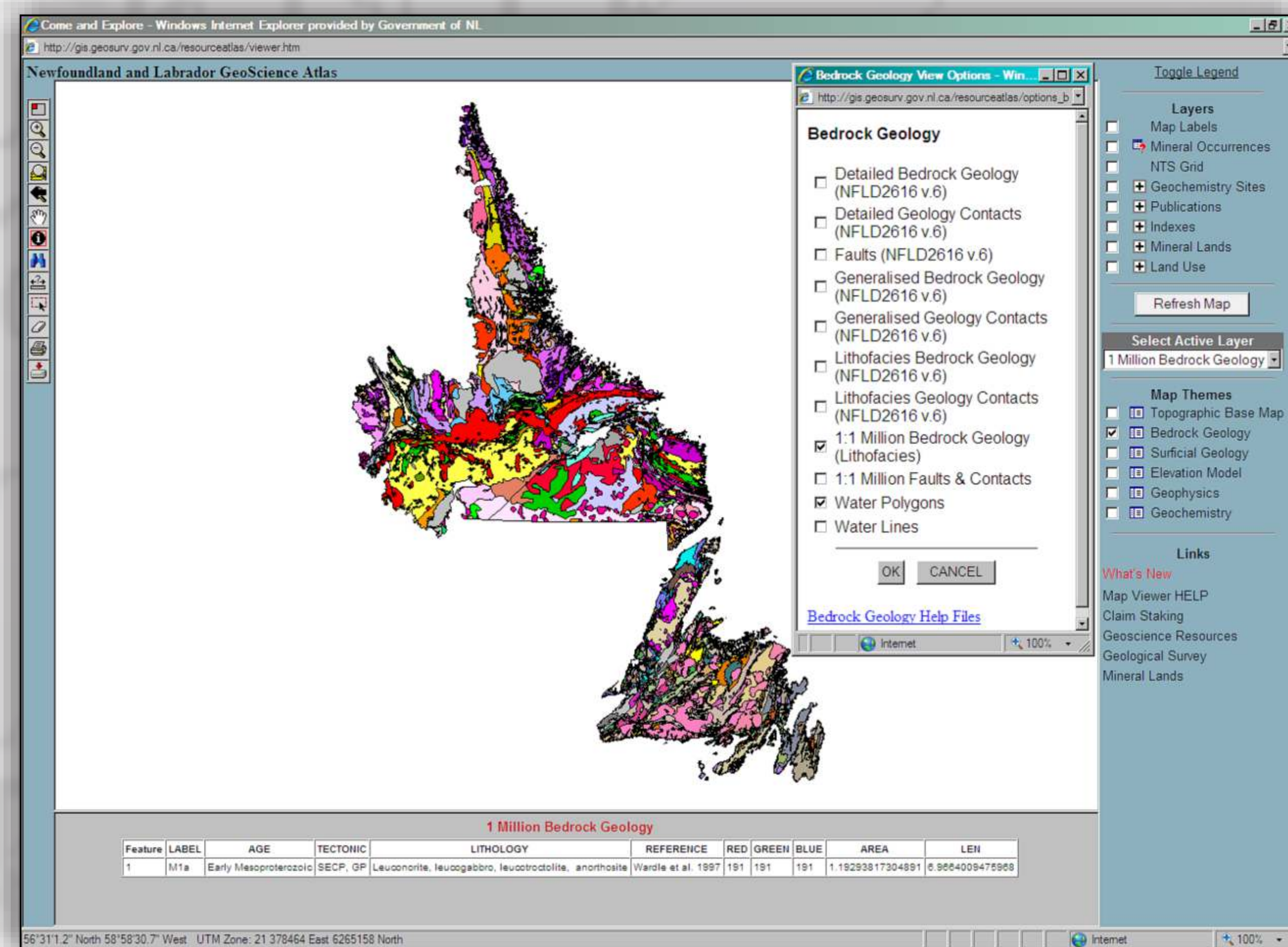
NL GEOSCIENCE DATABASES ONLINE

Geofiles (1823-present)	25,242 citations
Assessment Reports	10,499 non-confidential
Mineral Occurrences	6,636 MODS cards
Drill Core	9,408 collars
Mineral Rights	2,425 active claims
Historical Claims	28,742 claims
Quarry Permits and Leases	1,808
Aggregate samples	13,905
Geochemistry Sites:	
Regional Lake Sediment	35,769
Detailed Lake Sediment	6,225
Till Samples	15,598
Plutonic Rocks	4,993
Volcanic Rocks	5,081
Geophysical Surveys	1,360 airborne (15-20% of landmass)
Detailed Surficial Geology	143 maps in dataset
Detailed Bedrock Geology	190 maps in dataset
Bedrock Maps & Figures	400 pdfs

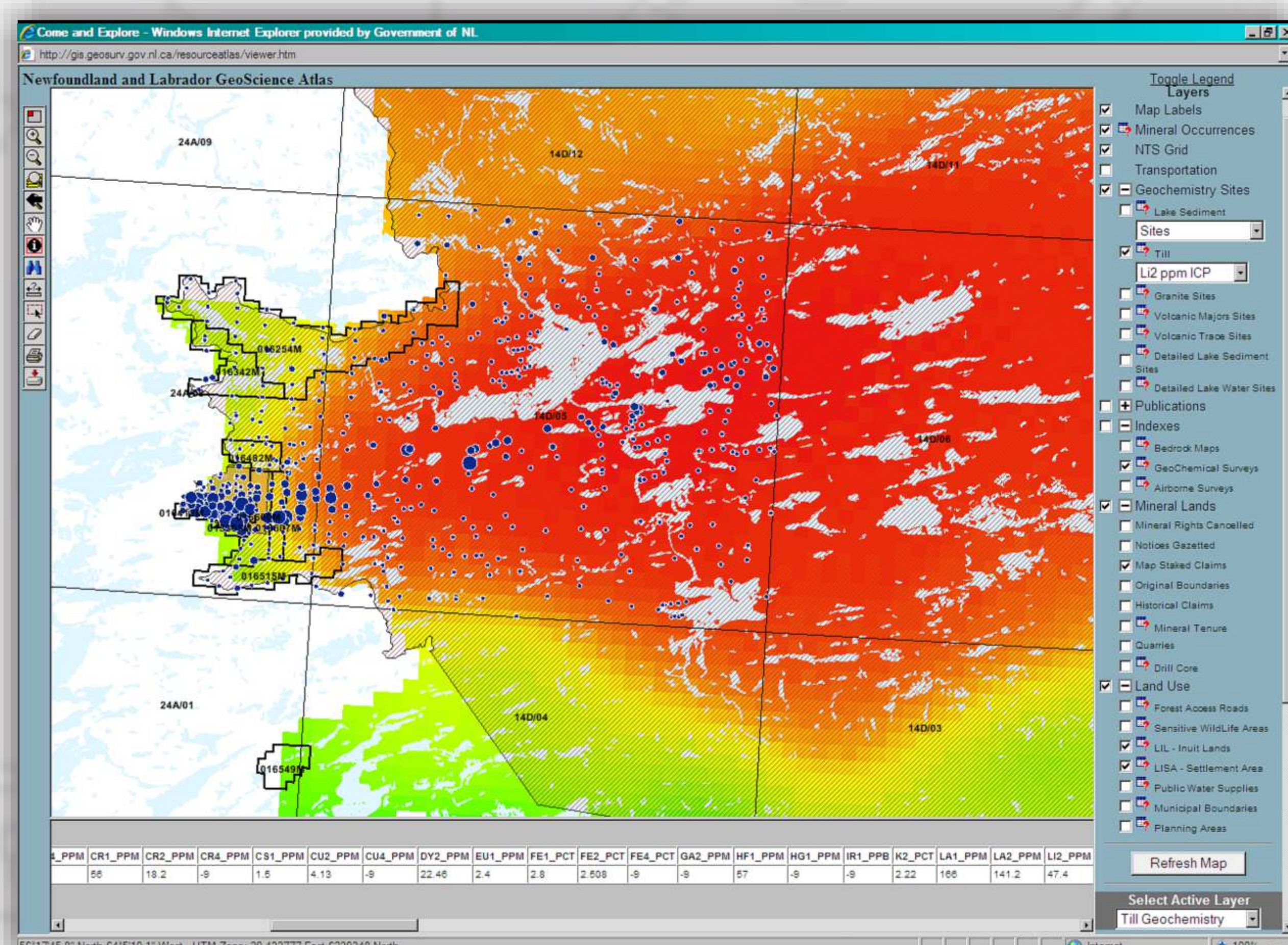
GeoScience Databases OnLine – amount of in-house data available through Geoscience OnLine and the Geoscience Atlas, such as Mineral Rights claims, Mineral Occurrences, Document pdf's, Geochemistry samples, Geophysical surveys, Digital Bedrock and Surficial geology coverage, Drill core data and reports.



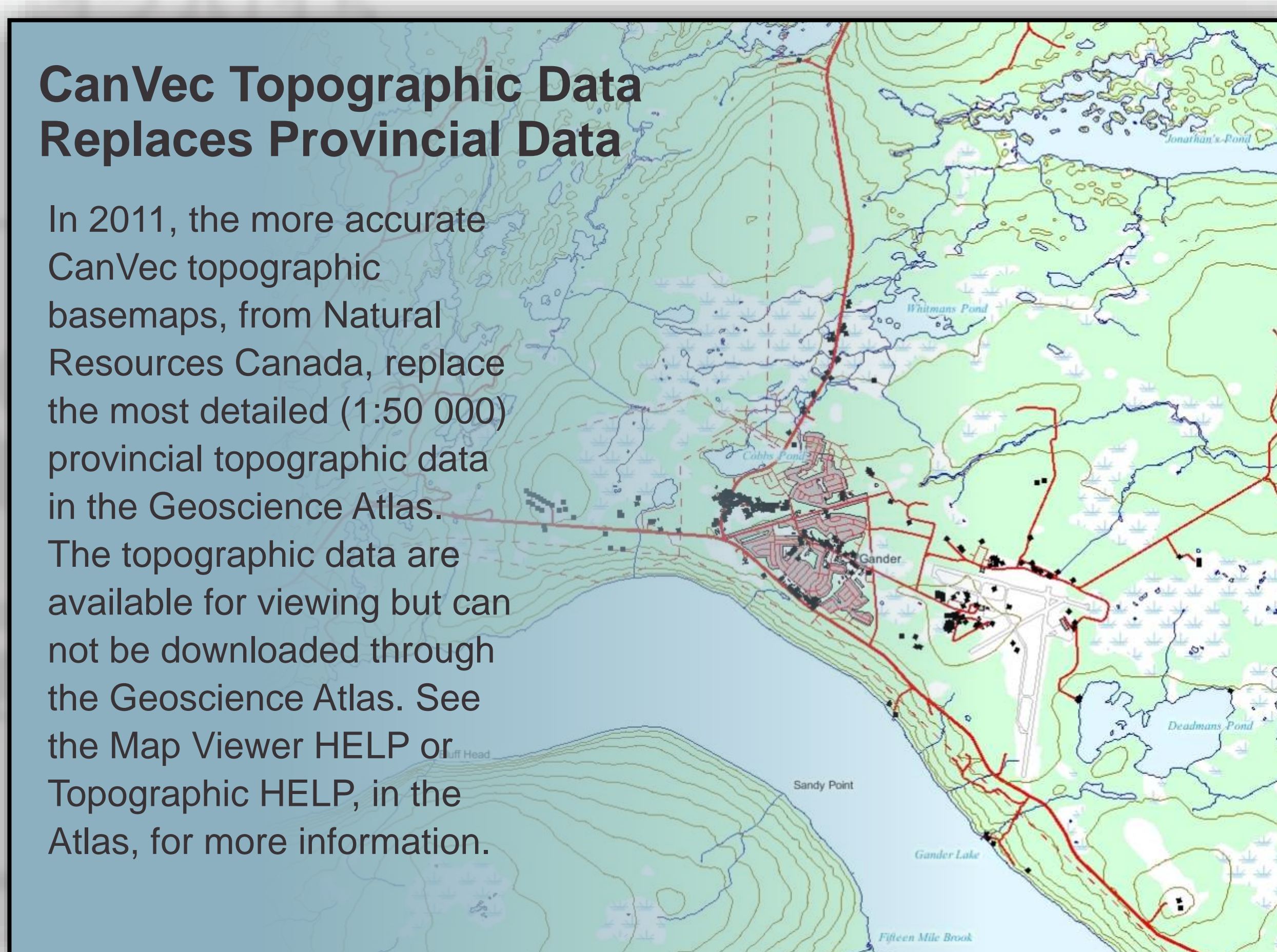
The Geoscience Atlas is presently undergoing an upgrade to its base program. This will enable us to provide new services, including the ability to draw shapes and text on the map and print to scale.



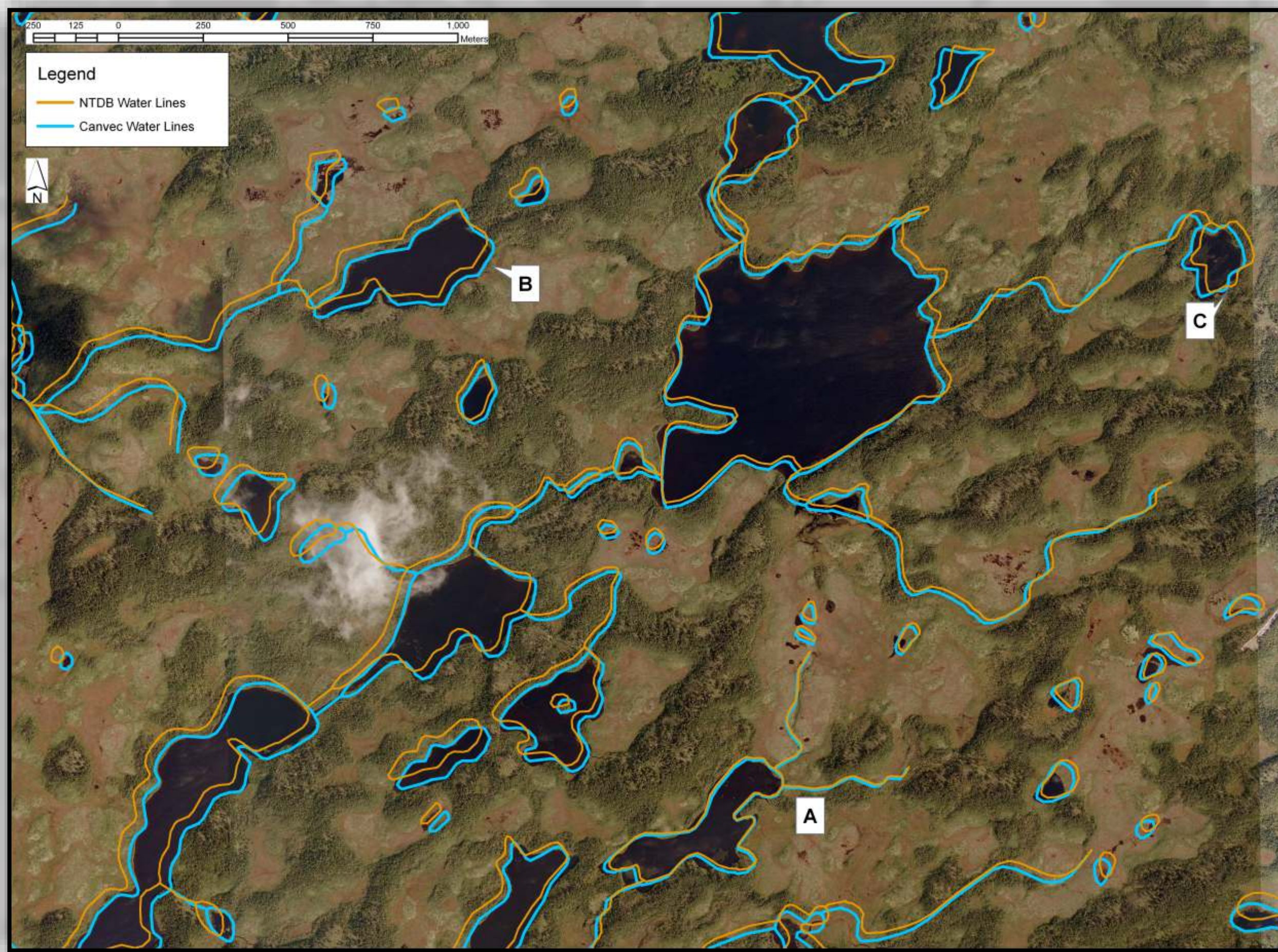
1:1 million scale bedrock geology, comprised of Map 90-01, *Geology of the Island of Newfoundland* (Colman-Sadd et al., 1990) and Map 97-07, *Geological Map of Labrador* (Wardle et al., 1997). The map theme options box for the Bedrock Geology indicates which layers are turned on.



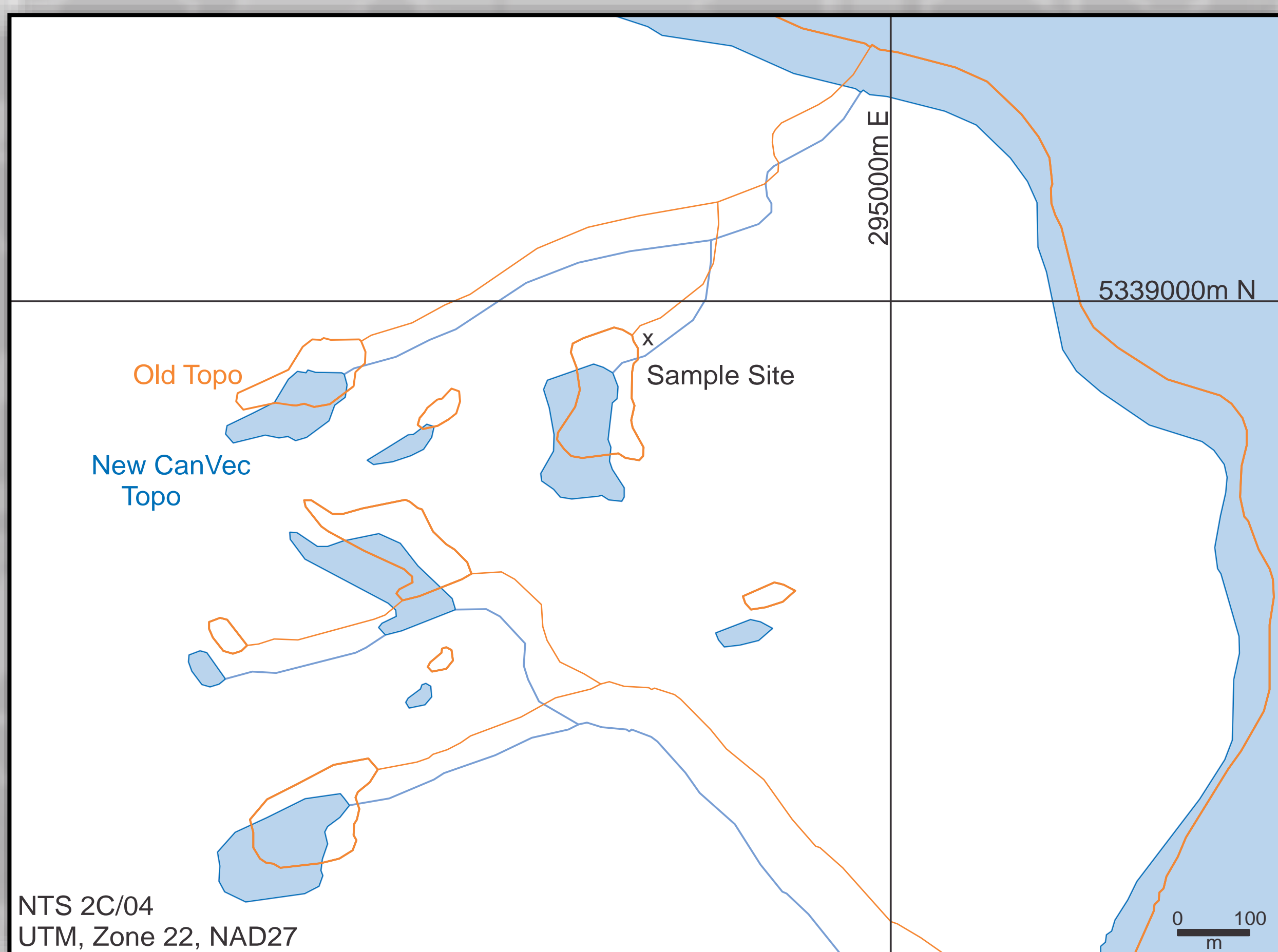
Interpolated geochemical map of hafnium in regional lake sediment from the Strange Lake Area, Labrador. Graduated dot plots are of lithium (Li2_ppm) from the till geochemistry database. Ancillary information consists of the map staked claims, and the LIL and LISA land use areas.



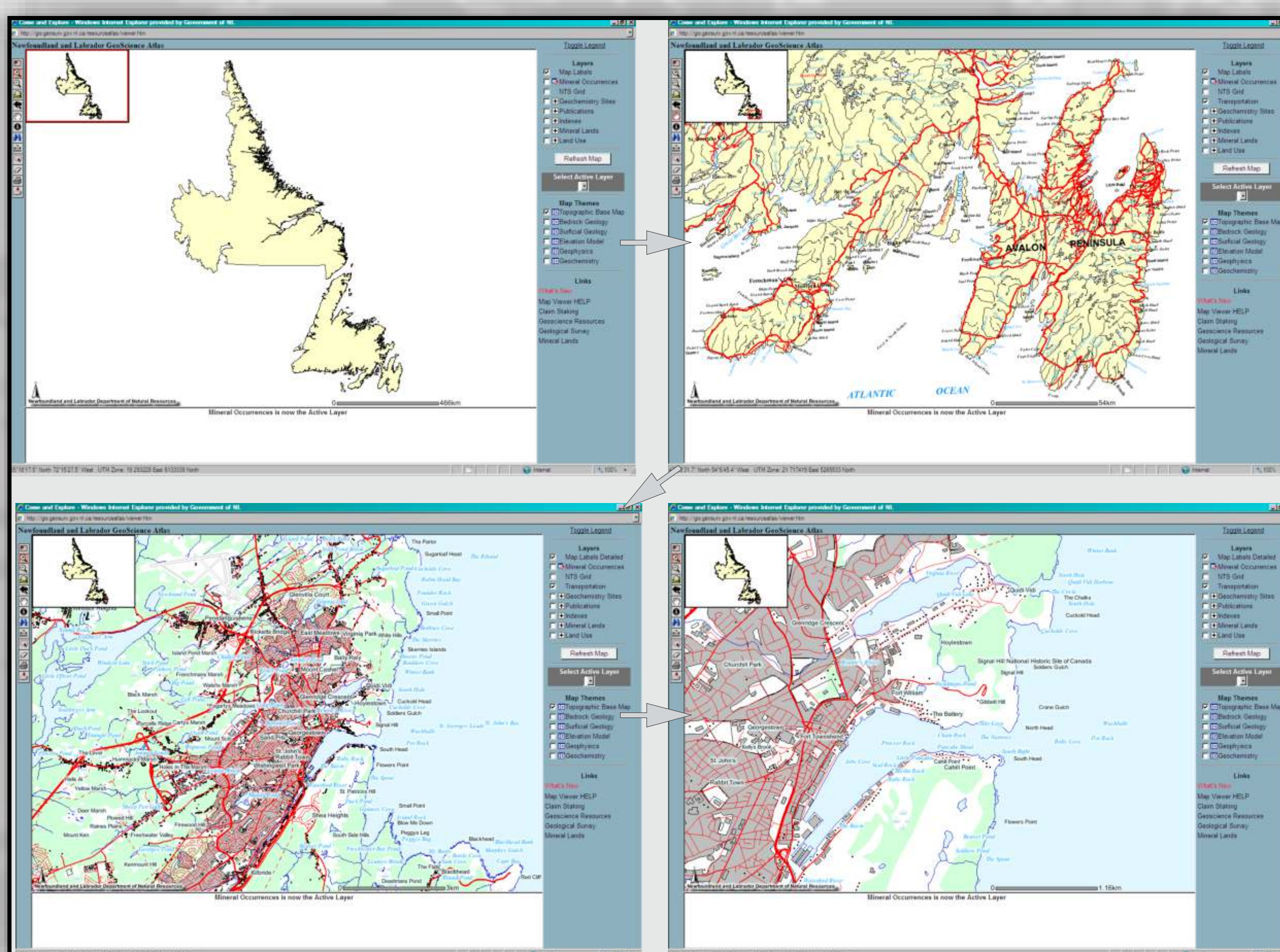
In 2011, the more accurate CanVec topographic basemaps, from Natural Resources Canada, replace the most detailed (1:50 000) provincial topographic data in the Geoscience Atlas. The topographic data are available for viewing but can not be downloaded through the Geoscience Atlas. See the Map Viewer HELP or Topographic HELP, in the Atlas, for more information.



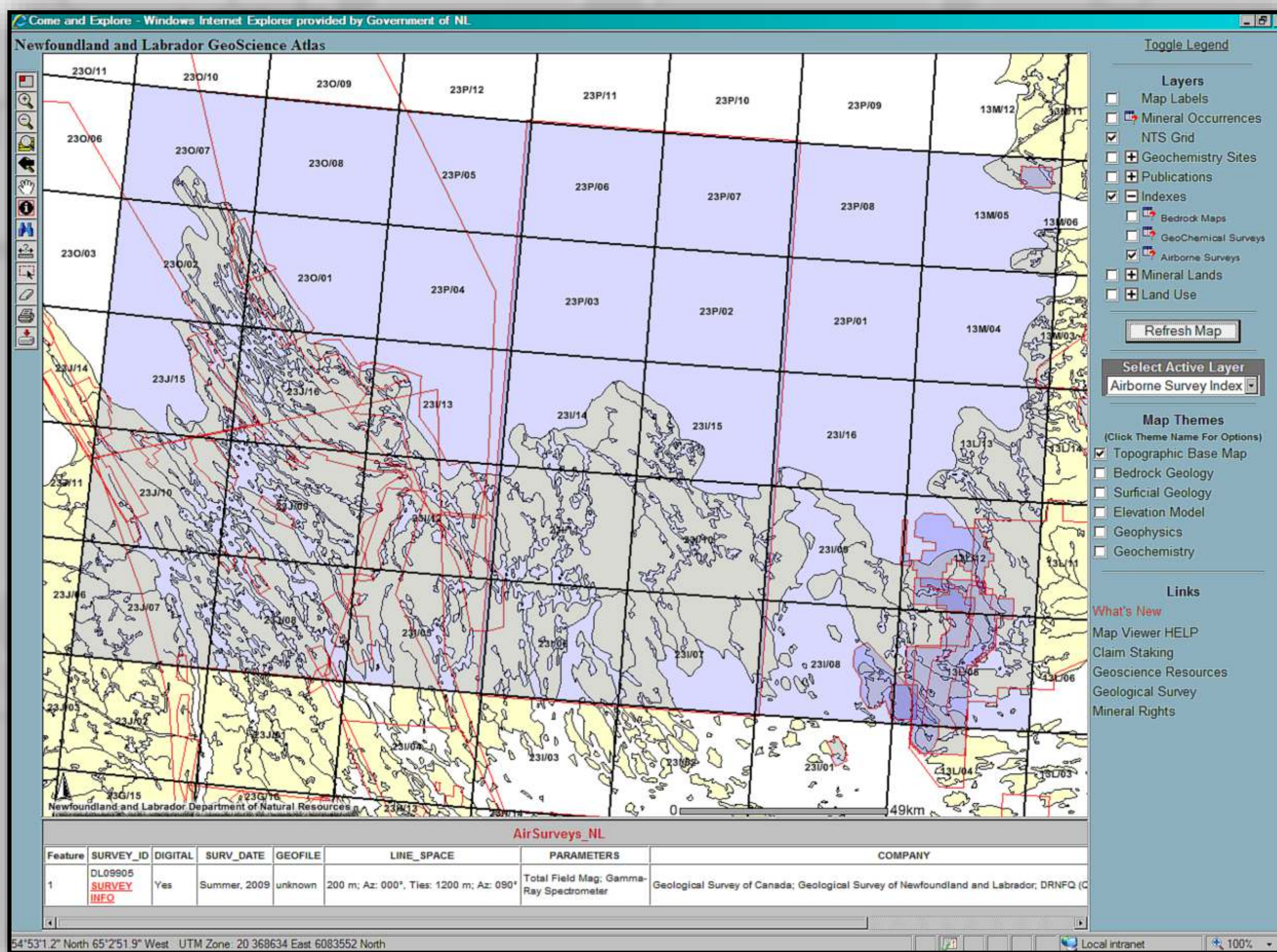
The CanVec topography (blue lines) was corrected by 'fitting' the data to orthorectified Landsat satellite imagery. In some areas (A) the old topography was accurate (orange shoreline aligns well with the lake image), but in other areas the lines needed to be shifted to the east (B) or the west (C). Note how much better the blue CanVec lake shorelines align with the lakes in the image.



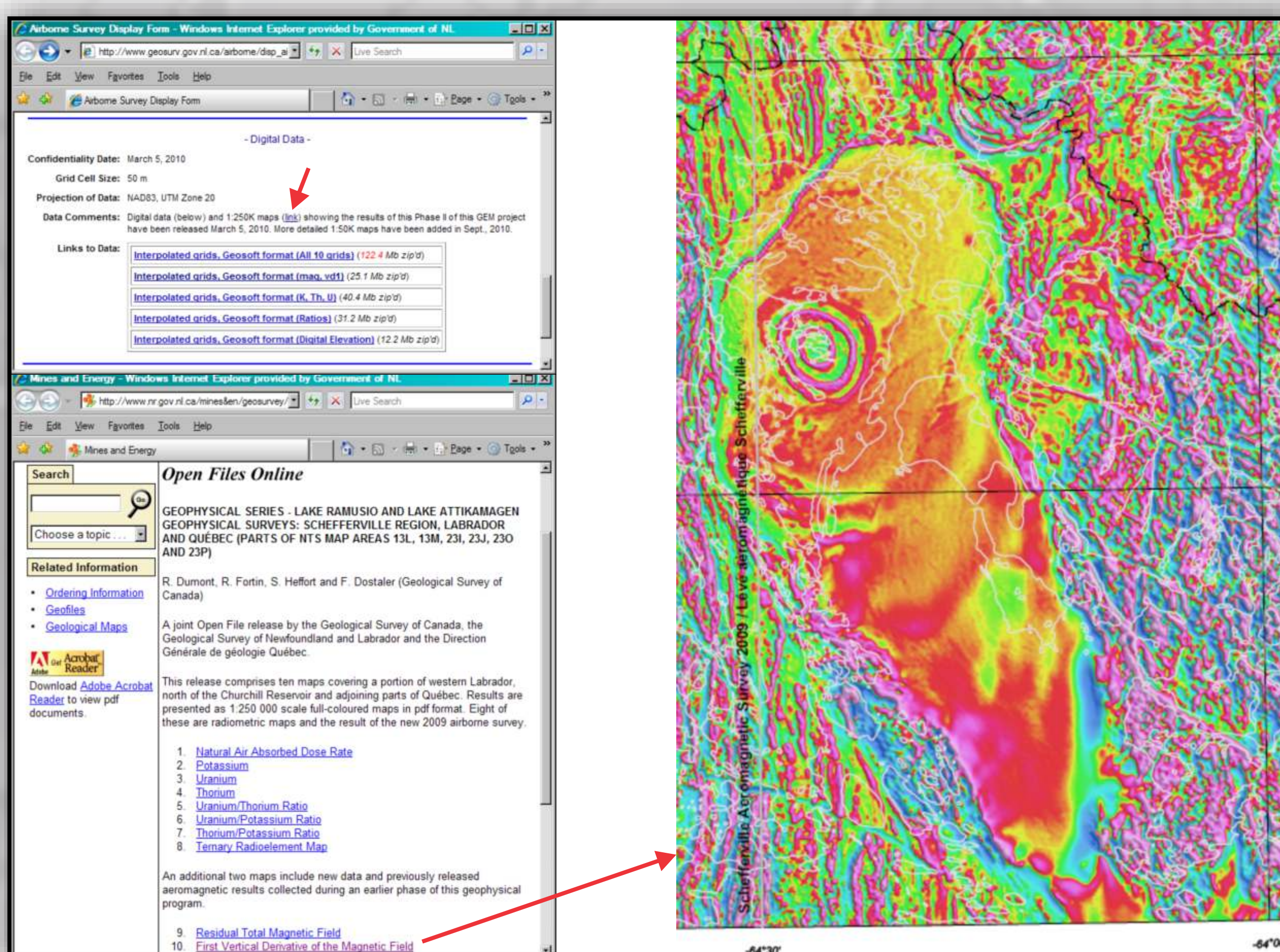
The new CanVec topography is more accurate and is a better fit with GPS coordinates. In this example, the sample site (294660m E, 5338950m N) plots south of the stream on the old provincial topography map (orange lines), whereas on the new CanVec topography map (blue lines) the sample plots north of the stream, which is where it actually is in the field.



Increasing level of detail in layer information for map labels, transportation network and topographic base map as the scale is increased. Note that the most detailed topographic base map is now the federal government's CanVec data, modified to conform to our previous provincial layer names and converted to the NAD27 datum.



Airborne survey index centered on the northwest Labrador survey (GEM Project). Additional information is provided through the "Survey Info" red hyperlink (left side of the table below the map) which provides survey logistics information and further links to digital data (see below).



Additional information for the GEM airborne geophysical survey. The Digital Data section provides further links to 1:50K and 1:250K maps, provided as full-colour pdf maps as well as profile data and interpolated grids from NRCan.