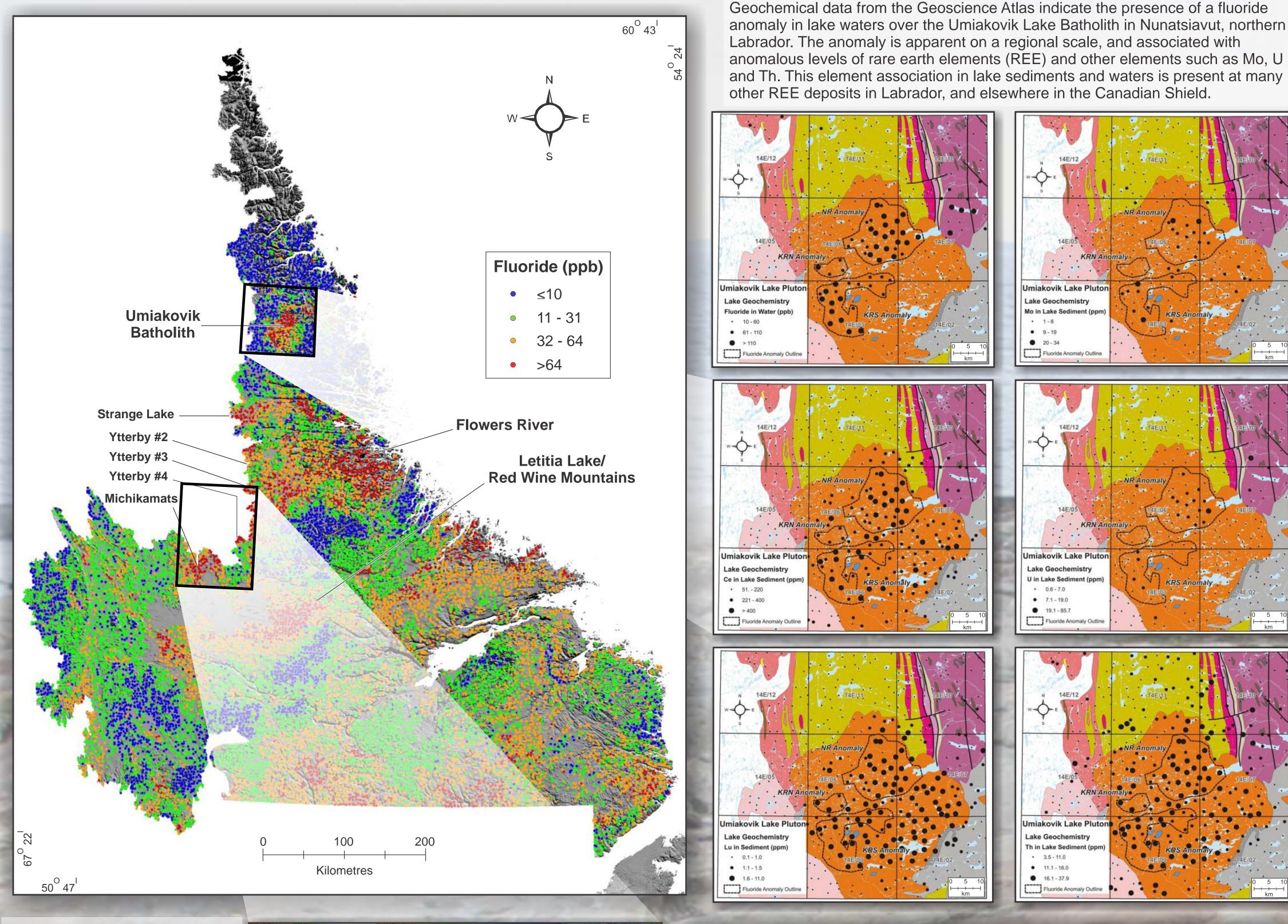
RARE EARTH ELEMENT TARGETS IN THE UMIAKOVIK LAKE BATHOLITH

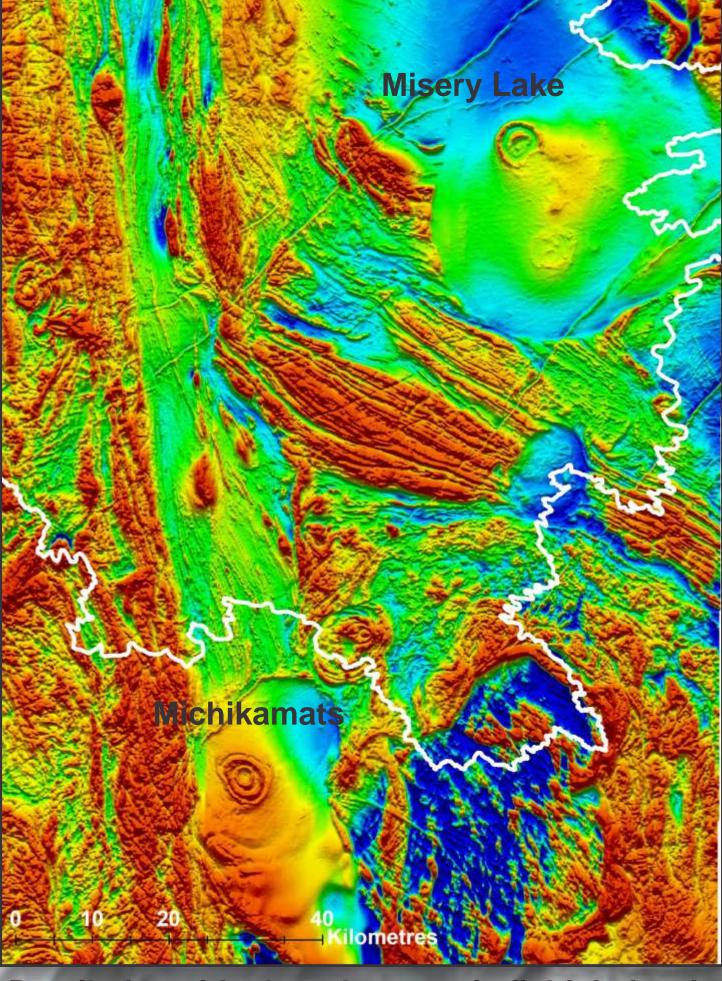
Datamining the Provincial Government's Assessment Files and Geoscience Atlas

S. Amor, Geological Survey

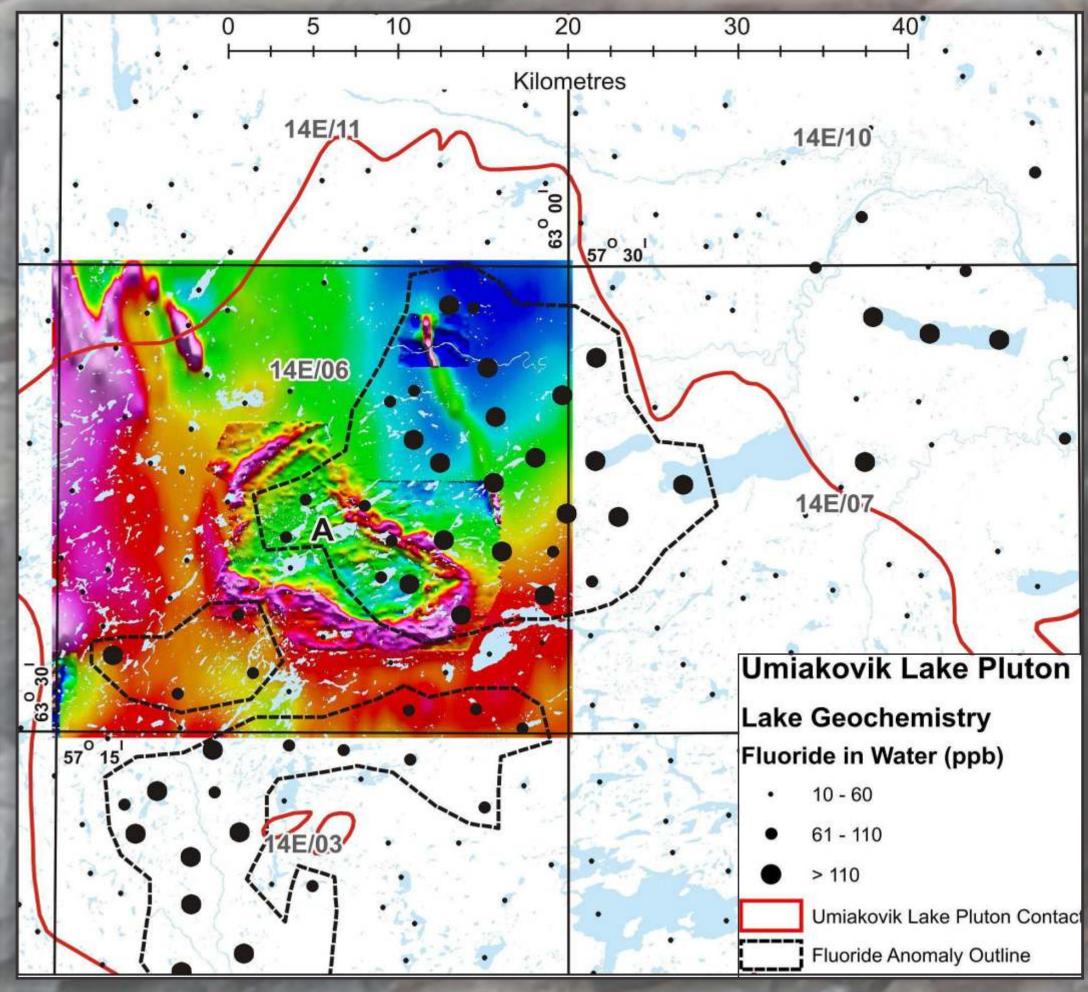


Northern Labrador was intensively prospected in the 1990s during the phase of exploration that followed the discovery of the Voisey's Bay nickel-copper-cobalt deposit. During this period, a detailed aeromagnetic survey in the North River area revealed a semicircular ring-shaped structure coinciding with the southwestern end of the fluoride anomaly. The structure is similar to that at Misery Lake in southeastern Nouveau-Québec and at Michikamats in the adjacent part of western Labrador, and is believed to be the source of the geochemical anomaly. The shape of the fluoride anomaly is consistent with a glacial dispersion train from the structure. It is believed that significant REE mineralization may be associated with the structure, since a similar dispersion train is present at Strange Lake, 120 km to the south.

These findings suggest that datamining of existing government files may well reveal other untested targets, particularly for commodities whose economic importance has increased since the original work was done.



Detailed residual total magnetic field, Labrador and Québec (from GSC Open File 6532)



Detailed residual total magnetic field, North River area, Umiakovik Lake Batholith (from NL Assessment File LAB/1197) with fluoride in water superimposed