

A map of the Adirondack region showing the locations of 9323 stream samples (red dots) and 5696 lake samples (blue dots). The map includes a legend on the right side with the following entries:

- Stream (9323)
- Lake (5696)

Antimony Anomalism Value Breakdown

values above cluster norm

values below cluster norm

- > 1.5
- 1 to 1.5
- 0 to 1
- -1 to 0
- -1.5 to -1
- -10 to -1.5

The SiroSim procedure assigns each sample to a best-matching unit (BMU) and samples that are similar tend to be assigned to either the same BMU or nearby BMUs that are close on the self-organized map. To assist with interpretation the SiroSim-derived BMU "vectors" were analyzed using K-means to produce 20 clusters. Field samples have been coloured according to the cluster—assignment of their particular BMU.

"Cluster-Normalized" element anomaly maps have been produced with samples normalized to the mean and standard deviation of the K-means cluster to which a sample's BMU belongs. Users are cautioned that normalization by the K-means cluster mean may make intrinsically small anomalies appear more significant, if an element is normally only present in small amounts in a set of samples assigned to a cluster, then the normalization process applied here will make the higher values in this low valued group anomalous.

Geochemistry Data

Levelled Data

Barnett, C. T. and Williams, P. M. (2009): Using geochemistry and neural networks to map geology under glacial cover, Geoscience BC, Report 2009-3.

Topographic Data

Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T. (2005): Digital Geology Map of British Columbia: Whole Province; B.C. Ministry of Energy and Mines, Geofile 2005-1.

Data Sources

Geoscience BC www.geosciencebc.com	Ministry of Energy, Mines and Petroleum Resources www.empr.gov.bc.ca/mining/geoscience
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Acknowledgments

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MAP 2009-14-33

GEOCHEMISTRY - CSIRO SOM ANALYSIS
Cluster-Normalized Antimony Anomalism

QUEST PROJECT

1:250 000 NTS SHEETS 93A,B,C,F,G,H,I,J,K,N,O,P
PART OF 1:250 000 NTS SHEETS 82M; 83D,E,L,M; 84D;
92M,N,O,P; 93D,E,L,M AND 94A,B,C,D

0 5 10 15 20 25 50 kms

Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983
Mean magnetic declination 2009, 19°26'E, decreasing 16.6' annually. Readings vary from
17°42'E in the southeast corner to 20°47'E in the northwest corner of the map.
September 16, 2009

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scale 1 : 500 000.