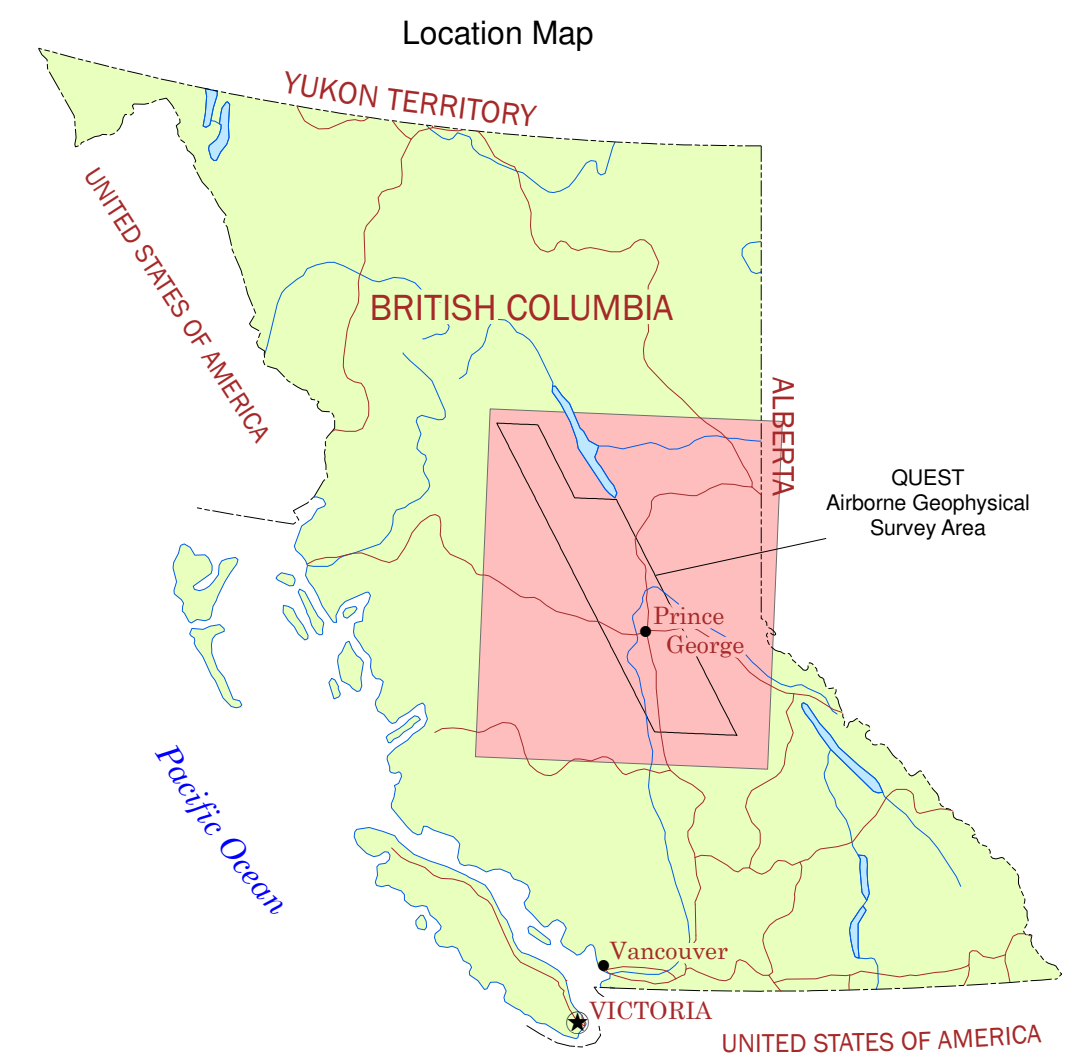


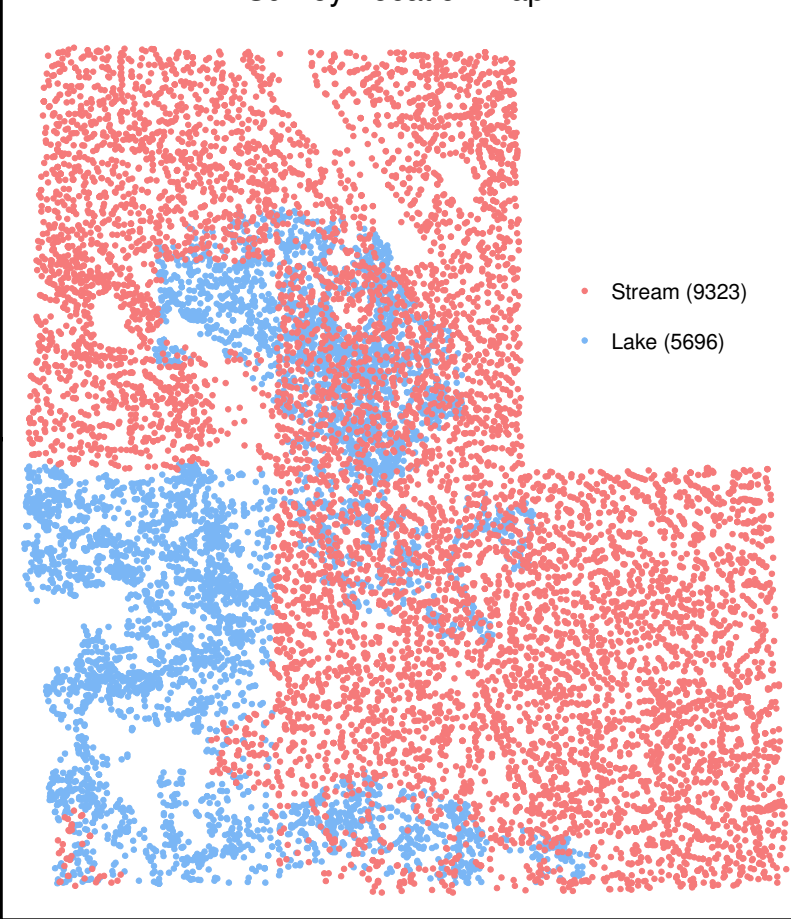
Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an 'as-is' basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering any financial or other commitment based upon this information.



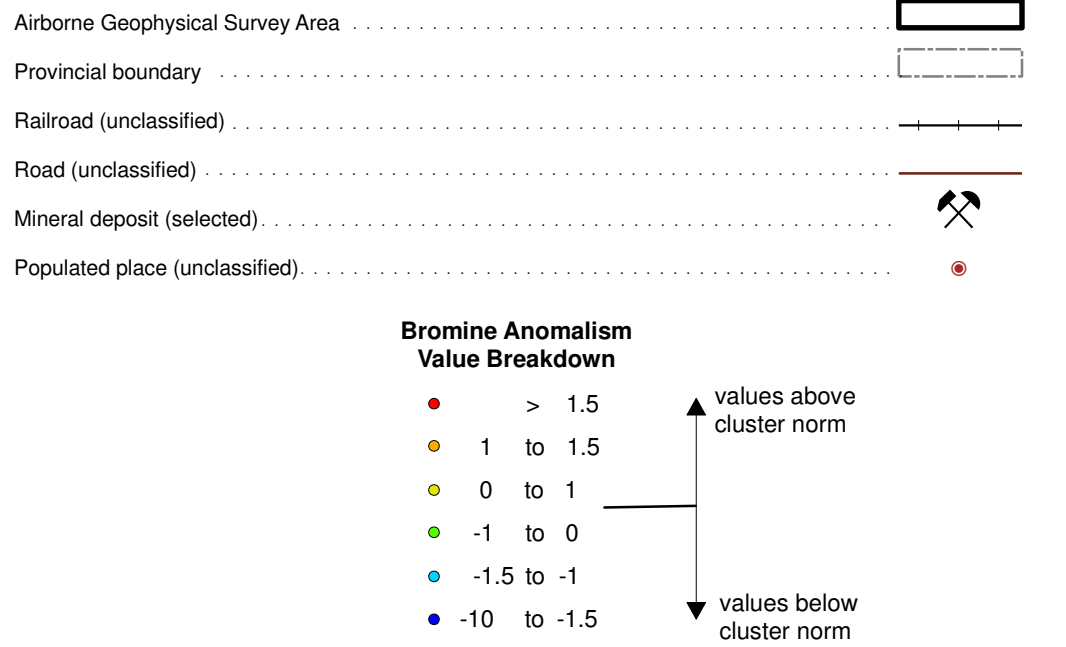
National Topographic System Index

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Survey Location Map



Legend



QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalism

The levelled and imputed element grids (Barnett and Williams, 2009) were intersected by the sample locations and the values assigned to the sample point. Note, missing element values have been imputed.

The SiRoSOM procedure assigns each sample to a best-matching cluster (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 SOM-derived BMU "vectors" were analyzed using K-means to produce 20 classes. 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 in which a sample's BMU belongs. It should be cautioned that the normalization by K-means cluster mean may make intrinsically small numbers meaningless; specifically, 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.

Data Analysis

Fraser, S.J., and Hodgkinson, J.H., (2009): An Investigation Using SiroSOM for the Analysis of QUEST Stream-Sediment and Lake-Sediment Geochemical Data. September 2009, Geoscience BC, Report 2009-14: CSIRO Exploration and Mining Report 2009/983. 64 p.

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.

Original Data:

Jackaman, W. (2008): Regional Stream Sediment and Water Geochemical Data, Pine Pass, British Columbia (NTS 930); Geoscience BC, Report 2008-7

Jackaman, W. (2008): Regional Lake Sediment and Water Geochemical Data, Northern Fraser Basin, Central British Columbia (parts of NTS 93G, H, J, K, N & O); Geoscience BC, Report 2008-5

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Lett, R.E.W. and Blumel, B. (2006): Re-analysis of regional geochemical survey stream sediment samples from the McLeod Lake area (NTS map sheet 093J); BC Ministry of Energy, Mines and Petroleum Resources, Geofile 2006-09, 220 p.

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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

Acknowledgments

Numerical analysis by CSIRO, Australia - www.csiro.au

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MAP 2009-14-09

GEOCHEMISTRY - CSIRO SOM ANALYSIS
Cluster Normalized Bremsium Anomalies

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

1 : 500,000

Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983
Magnetic declination 0000, 40/200'E, decreasing 10.0' annually. Readings are from

September 16, 2009

Citation:
Geoscience BC (2009): QUEST Project - Geochemistry - CSIRO SOM Analysis:
Climate Normalized Baseline Ammonium - Coquitlam BC, May 2009, 14 pp.

Cluster Normalized Bromine Anomalism, Geoscience BC, InMap 2009-14-09, scale 1 : 500 000.