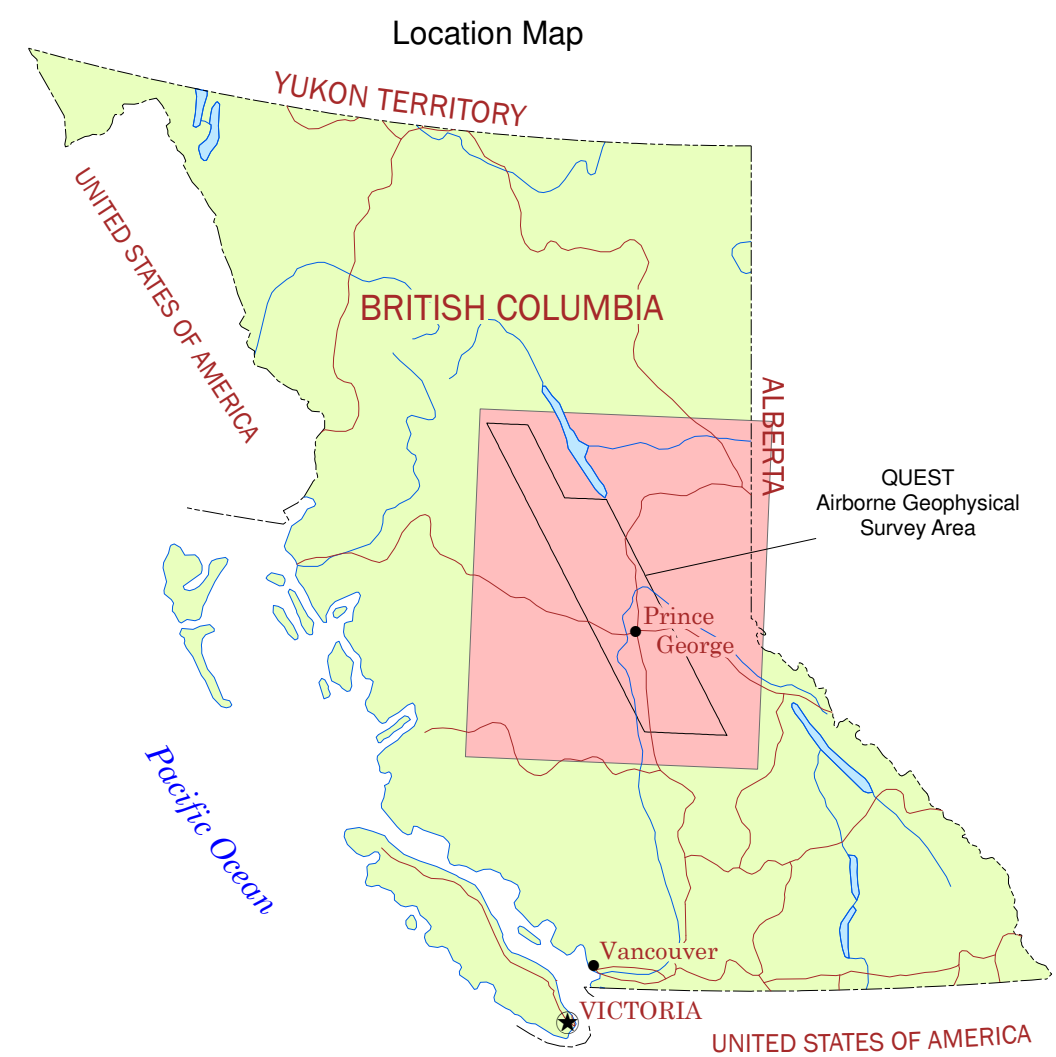
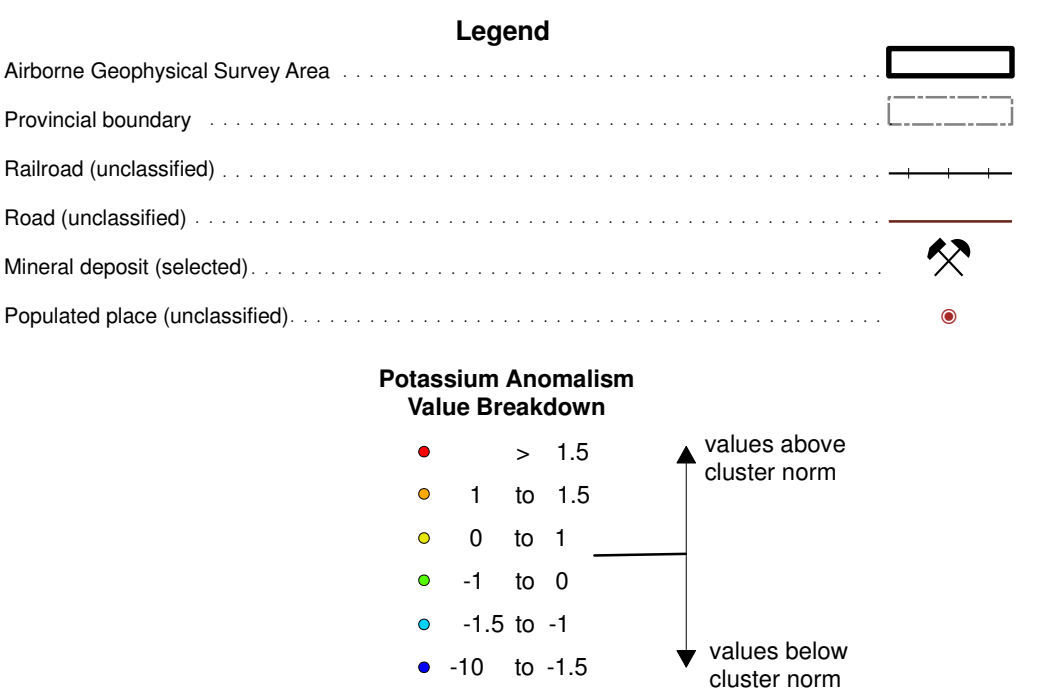


Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an "as is" basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering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



National Topographic System Index

82M SPENCER RIVER	82E DUNDAS RIVER	82F WILEY RIVER	82G BUTCH RIVER	82H SEATTLE RIVER	82I CHICAGO RIVER
83A LAKE	83B MCCONNELL RIVER	83C MCCONNELL RIVER	83D MCCONNELL RIVER	83E MCCONNELL RIVER	83F MCCONNELL RIVER
83G MCCONNELL RIVER	83H MCCONNELL RIVER	83I MCCONNELL RIVER	83J MCCONNELL RIVER	83K MCCONNELL RIVER	83L MCCONNELL RIVER
83M MCCONNELL RIVER	83N MCCONNELL RIVER	83O MCCONNELL RIVER	83P MCCONNELL RIVER	83Q MCCONNELL RIVER	83R MCCONNELL RIVER
83S MCCONNELL RIVER	83T MCCONNELL RIVER	83U MCCONNELL RIVER	83V MCCONNELL RIVER	83W MCCONNELL RIVER	83X MCCONNELL RIVER
83Y MCCONNELL RIVER	83Z MCCONNELL RIVER	84A MCCONNELL RIVER	84B MCCONNELL RIVER	84C MCCONNELL RIVER	84D MCCONNELL RIVER
84E MCCONNELL RIVER	84F MCCONNELL RIVER	84G MCCONNELL RIVER	84H MCCONNELL RIVER	84I MCCONNELL RIVER	84J MCCONNELL RIVER
84K MCCONNELL RIVER	84L MCCONNELL RIVER	84M MCCONNELL RIVER	84N MCCONNELL RIVER	84O MCCONNELL RIVER	84P MCCONNELL RIVER
84Q MCCONNELL RIVER	84R MCCONNELL RIVER	84S MCCONNELL RIVER	84T MCCONNELL RIVER	84U MCCONNELL RIVER	84V MCCONNELL RIVER
84W MCCONNELL RIVER	84X MCCONNELL RIVER	84Y MCCONNELL RIVER	84Z MCCONNELL RIVER	85A MCCONNELL RIVER	85B MCCONNELL RIVER
85C MCCONNELL RIVER	85D MCCONNELL RIVER	85E MCCONNELL RIVER	85F MCCONNELL RIVER	85G MCCONNELL RIVER	85H MCCONNELL RIVER
85I MCCONNELL RIVER	85J MCCONNELL RIVER	85K MCCONNELL RIVER	85L MCCONNELL RIVER	85M MCCONNELL RIVER	85N MCCONNELL RIVER
85O MCCONNELL RIVER	85P MCCONNELL RIVER	85Q MCCONNELL RIVER	85R MCCONNELL RIVER	85S MCCONNELL RIVER	85T MCCONNELL RIVER
85U MCCONNELL RIVER	85V MCCONNELL RIVER	85W MCCONNELL RIVER	85X MCCONNELL RIVER	85Y MCCONNELL RIVER	85Z MCCONNELL RIVER



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 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 SOM-derived BMU "vectors" were analysed 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 numbers anomalous. 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., (2006) 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, 14 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

Jackman, W. (2008). Regional Stream Sediment and Water Geochemical Data, Pine Pass, British Columbia (NTS 820). Geoscience BC, Report 2008-7.

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Let, R.E.W. and Blumel, B. (2006). Re-analysis of regional geochemical survey stream sediment samples from the McLeod Lake area (NTS map sheet 653J). BC Ministry of Energy, Mines and Petroleum Resources, Geofiles 2006-09, 220 p.

Jackman, W. (2006). Regional drainage sediment and water geochemical data, Anahim Lake and Nechako River, central British Columbia (NTS 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990). Geoscience BC, Report 2006-4, 483 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, Geofiles 2005-1.

Data Sources

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

Acknowledgments

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MAP 2009-14-21
GEOCHEMISTRY - CSIRO SOM ANALYSIS
Cluster-Normalized Potassium Anomalism
QUEST PROJECT
1:250 000 NTS SHEETS 83A,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
0 5 10 15 20 25 30 35 40 45 50 kms
Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983
Mean magnetic declination 2009: 10°18' E, decreasing 1.6° annually. Readings vary from 17°42' E in the southeast corner to 20°14' E in the northwest corner of the map.
September 16, 2009
Citation:
Geoscience BC (2009). QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster-Normalized Potassium Anomalism. Geoscience BC, Map 2009-14-21, scales 1:500,000.