

This map shows the location of the QUEST Airborne Geophysical Survey Area within British Columbia, Canada. The survey area is highlighted in pink and is situated in the southeastern part of the province, near the border with the United States of America. Key geographical features labeled include the Yukon Territory to the north, the United States of America to the west and south, and the Pacific Ocean to the southwest. The city of Vancouver is marked on the coast, and the town of Prince George is located within the survey area. The map also shows the borders of Alberta to the east and the United States of America to the south.

[illegible]

Provincial boundary .....  
 Railroad (unclassified) .....  
 Road (unclassified) .....  
 Mineral deposit (selected) .....  
 Populated place (unclassified) .....

**Chromium 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 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 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 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.

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**Geochemistry Data**

Levelled Data

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Original Data

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Jackaman, W. (2007): Regional drainage sediment and water geochemical data, South Nechako Basin and Cariboo Basin, central British Columbia (parts of NTS 92N, O, P, 93A, B); Geoscience BC, Report 2007-8, 332 p.

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**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.

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Geoscience BC is an industry-led, industry-focused not for profit society that works to attract mineral and oil and gas investment to British Columbia through collection and marketing of geoscience data.

EOCHEMISTRY - CSIRO SOM ANALYSIS  
Cluster Normalized Chromium Anomaly

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

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