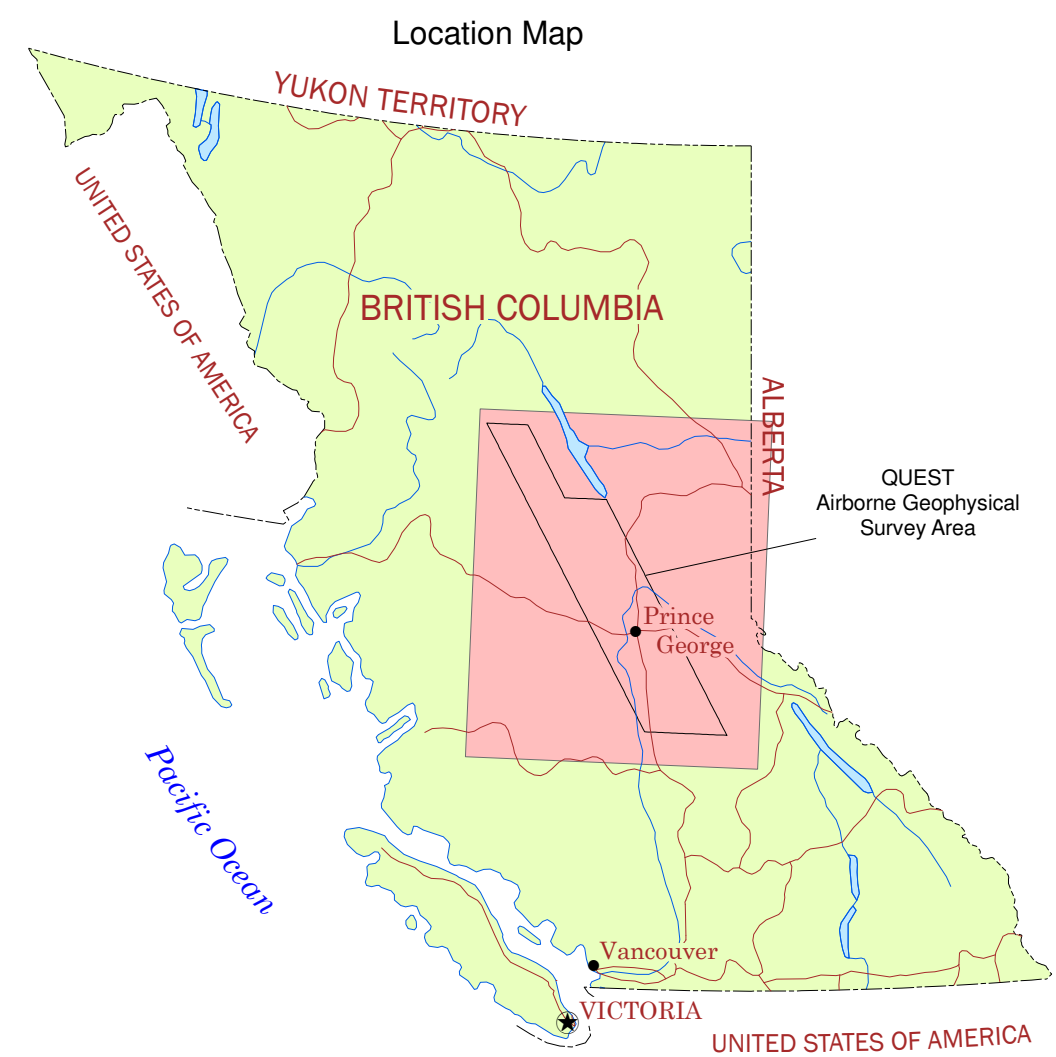
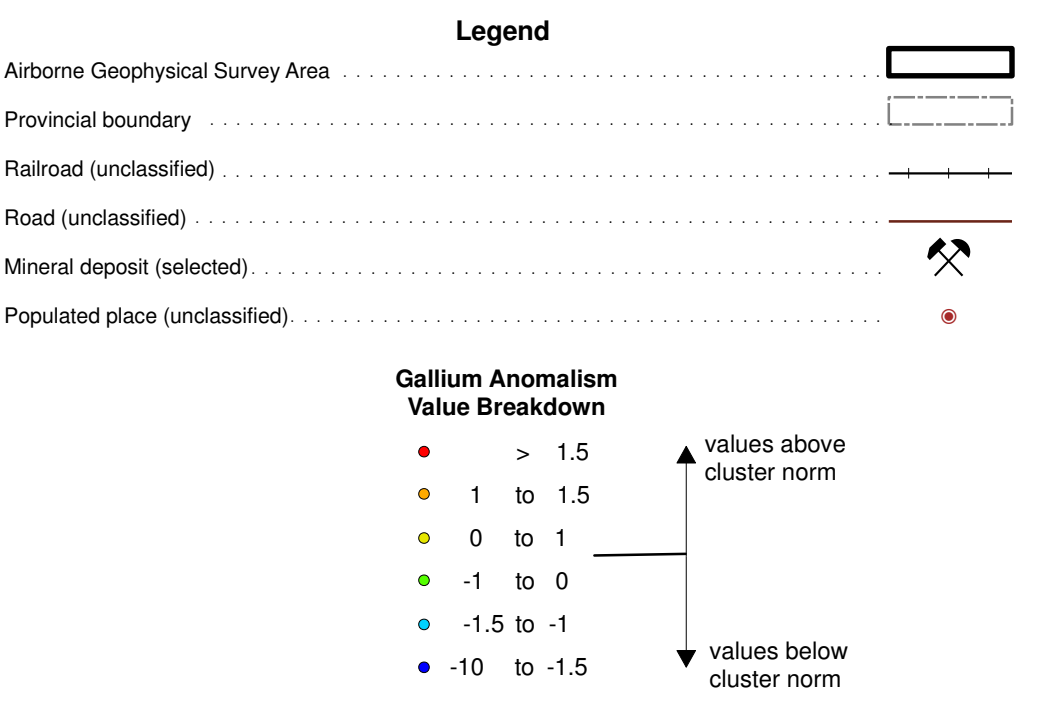
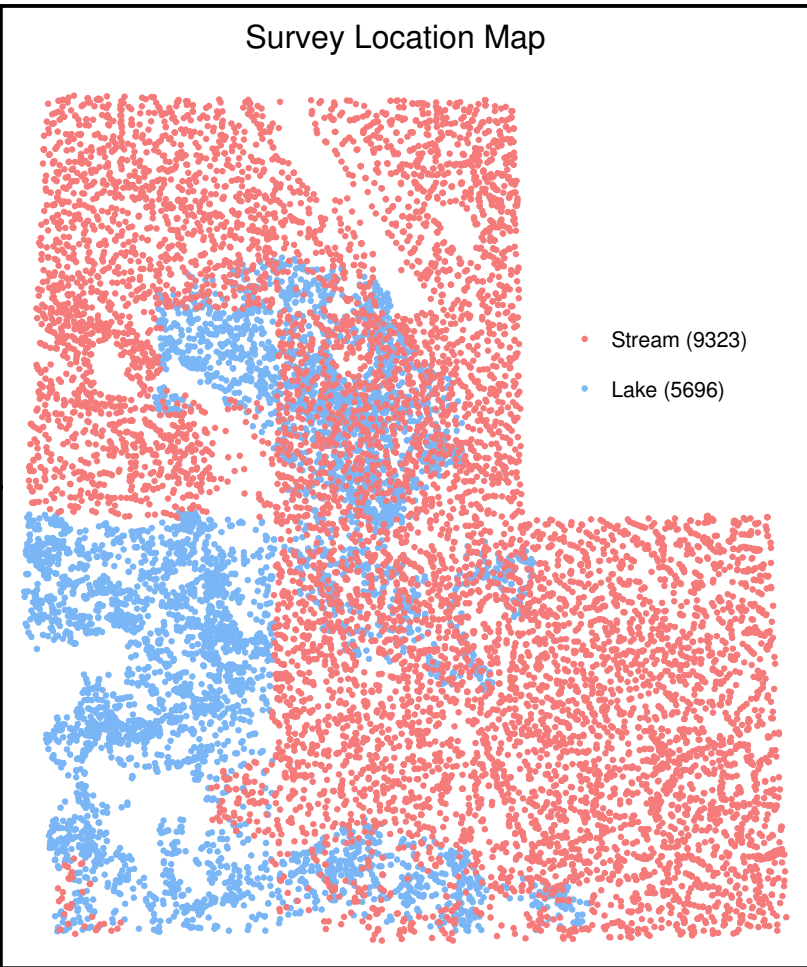


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National Topographic System Index

18M SPENCER RIVER	08E CANNADONCH RIVER	09E WHELE RIVER	09M SEATTLE RIVER	09H CHICAGO RIVER
18A LAKE	08C MCCONNELL RIVER	09C MCCONNELL RIVER	09B MCCONNELL RIVER	09D MCCONNELL RIVER
18P RIVER	08W MCCONNELL RIVER	09W MCCONNELL RIVER	09D MCCONNELL RIVER	09P MCCONNELL RIVER
02E TIVANCA	02S JANZEN PASS	02H MCCONNELL PASS	02M MCCONNELL PASS	02H MCCONNELL PASS
10H DOUGLAS LAKE	02E WHELE LAKE	02C MCCONNELL LAKE	02B MCCONNELL LAKE	02D MCCONNELL LAKE
10A DOUGLAS LAKE	02W MCCONNELL LAKE	02W MCCONNELL LAKE	02D MCCONNELL LAKE	02P MCCONNELL LAKE
10P DOUGLAS LAKE	02W MCCONNELL LAKE	02W MCCONNELL LAKE	02D MCCONNELL LAKE	02P MCCONNELL LAKE
02E TIVANCA	02S JANZEN PASS	02H MCCONNELL PASS	02M MCCONNELL PASS	02H MCCONNELL PASS
10H DOUGLAS LAKE	02E WHELE LAKE	02C MCCONNELL LAKE	02B MCCONNELL LAKE	02D MCCONNELL LAKE
10A DOUGLAS LAKE	02W MCCONNELL LAKE	02W MCCONNELL LAKE	02D MCCONNELL LAKE	02P MCCONNELL LAKE
10P DOUGLAS LAKE	02W MCCONNELL LAKE	02W MCCONNELL LAKE	02D MCCONNELL LAKE	02P MCCONNELL LAKE



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 "vector" was analysed 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 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 2009/063. 64 p.

Geochronology Data

Latent 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 930). Geoscience BC, Report 2008-7.

Jackman, W. (2008). Regional Lake Sediment and Water Geochemical Data, Northern Fraser Basin, Central British Columbia (parts of NTS 93C, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 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