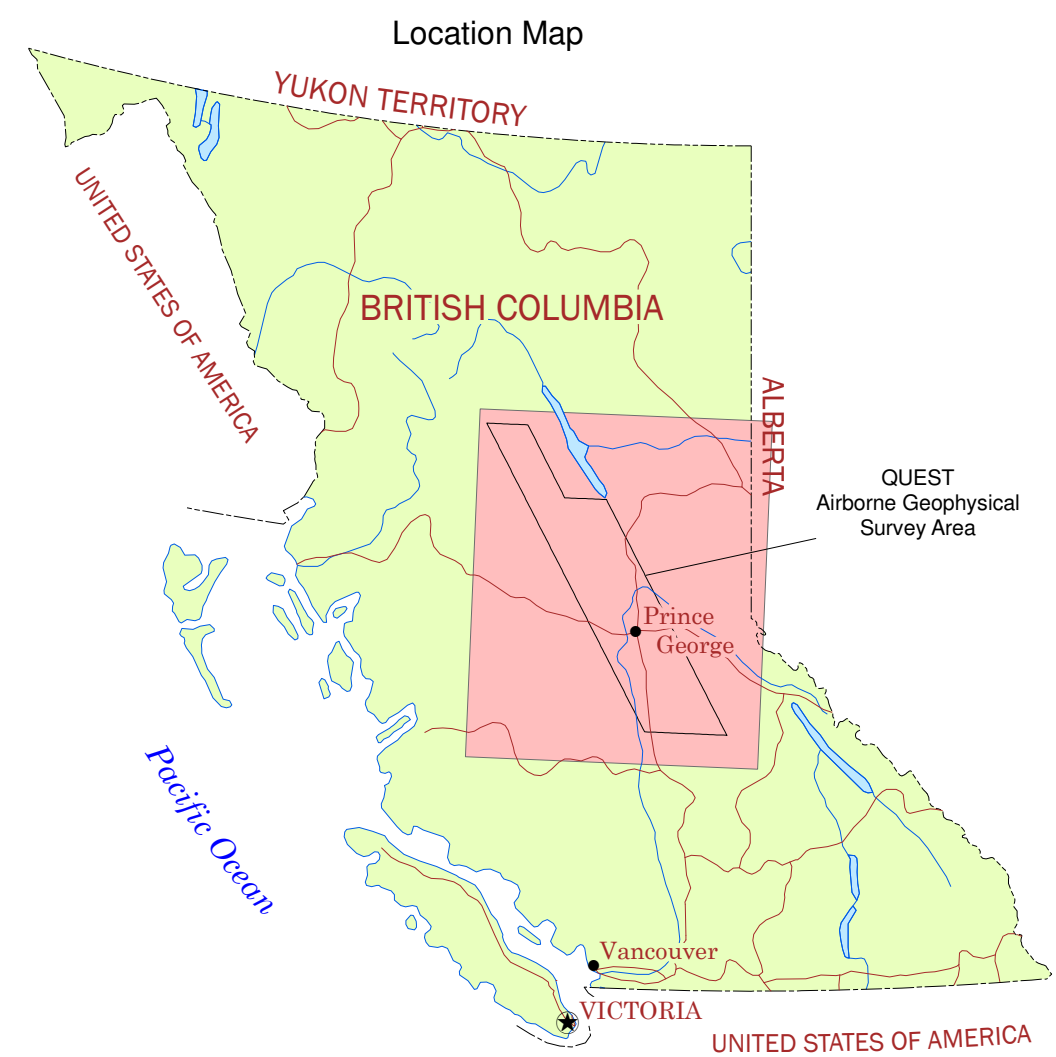
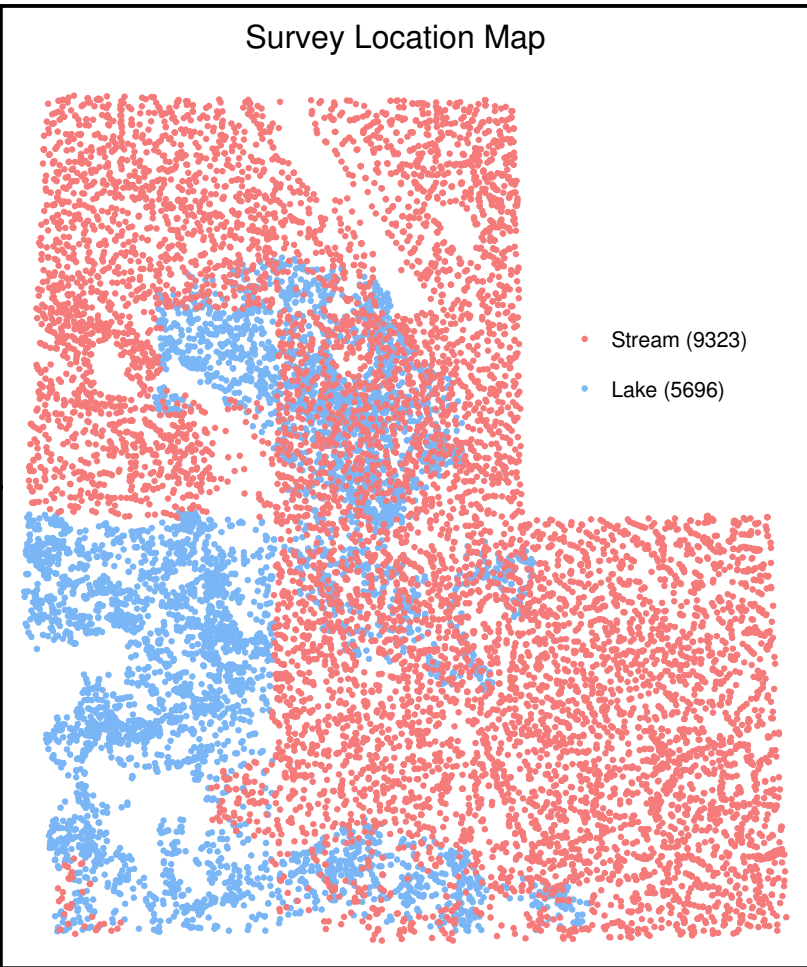


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National Topographic System Index

18M SPENCER RIVER	08E CANNADOSH RIVER	09F WINE RIVER	09G WINE RIVER	09H SEATTLE RIVER	09I CHICAGO RIVER
18A LAKE	08C MCCONNELL RIVER	09C MCCONNELL RIVER	09B MCCONNELL RIVER	09A MCCONNELL RIVER	08D MCCONNELL RIVER
18P RIVER	08W MCCONNELL RIVER	09N MCCONNELL RIVER	09D MCCONNELL RIVER	09F MCCONNELL RIVER	09E MCCONNELL RIVER
02B TOWN	02C TOWN	02D TOWN	02E TOWN	02F TOWN	02G TOWN
10B TOWN	10C TOWN	10D TOWN	10E TOWN	10F TOWN	10G TOWN
10A TOWN	10B TOWN	10C TOWN	10D TOWN	10E TOWN	10F TOWN
10P TOWN	10W TOWN	10N TOWN	10D TOWN	10F TOWN	10E TOWN
02P TOWN	02W TOWN	02N TOWN	02D TOWN	02F TOWN	02E TOWN



Legend

- Altona Geophysical Survey Area
- Provincial boundary
- Railroad (unclassified)
- Road (unclassified)
- Mineral deposit (selected)
- Populated place (unclassified)

Sulphur Anomaly
Value Breakdown

- > 1.5
- 1 to 1.5
- 0 to 1
- 1 to 0
- 1.5 to -1
- < -1.5

values above
cluster norm

values below
cluster norm

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. Now, 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 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 2009/983, 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

Jackman, W. (2008). Regional Stream Sediment and Water Geochemical Data, Pine Pass, British Columbia (NTS 830). Geoscience BC, Report 2008-7.

Jackman, W. (2008). Regional Lake Sediment and Water Geochemical Data, Northern Fraser Basin, Central British Columbia (parts of NTS 830, 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, 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, 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