

Appendix: British Columbia Geological Survey publications and peer-reviewed journal papers authored by BCGS staff and released in 2018

All BCGS publications are available for download, free of charge, from <https://www2.gov.bc.ca/gov/content/industry/mineral-exploration-mining/british-columbia-geological-survey/publications>

To receive notification of our latest releases email
Geological.Survey@gov.bc.ca



Papers

Paper 2018-1

Geological fieldwork 2017, a summary of field activities and current research, 234 p.

Hickin, A.S., Jones, L.D., and Clarke, G., 2018. British Columbia Geological Survey annual program review 2017-2018. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 1-13.

Nelson, J., Waldron, J., van Straaten, B., Zagorevski, A., and Rees, C., 2018. Revised stratigraphy of the Hazelton Group in the Iskut River region, northwestern British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 15-38.

van Straaten, B.I., and Bichmaier, S., 2018. Late Early to Middle Jurassic Hazelton Group volcanism and its tectonic setting, McBride River area, northwest British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 39-66.

Ootes, L., Castonguay, S., Friedman, R., Devine, F., and Simmonds, R., 2018. Testing the relationship between the Llewellyn fault, Tally-Ho shear zone, and gold mineralization in northwest British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 67-81.

Mihalynuk, M.G., Zagorevski, A., Milidragovic, D., Tsekhmistrenko, M., Friedman, R.M., Joyce, N., Camacho, A., and Golding, M., 2018. Geologic and geochronologic update of the Turtle Lake area, NTS 104M/16, northwest British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 83-128.

Milidragovic, D., Grundy, R., and Schiarizza, P., 2018. Geology of the Decar area north of Trembleur Lake, NTS 93K/14. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 129-142.

Schiarizza, P., 2018. Geology of the Spanish Lake area, south-central British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 143-156.

Hora, Z.D., Stein, H., Žák, K., and Dobeš, P., 2018. Eaglet property, southeastern British Columbia: Re-Os geochronology, sulphur isotopes, and thermobarometry. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 157-166.

Rukhlov, A.S., Mao, M., and Rippon, C., 2018. Rapid identification of sand-size mineral grains using portable XRF: A new method for indicator mineral surveys. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 167-182.

Cui, Y., Zhao, S., Fortin, G., Meredith-Jones, S., and Jones, L.D., 2018. Development of MapPlace 2 geospatial web service to disseminate geoscience in British Columbia. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 183-195.

Cui, Y., Hickin, A.S., Schiarizza, P., Miller, D., Nixon, G.T., Nelson, J.L., and Ferri, F., 2018. Methods to update the digital geology of British Columbia and synopses of recently integrated mapping programs. In: Geological Fieldwork 2017, British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 197-215.

Rowins, S.M., Miller, D.R., and Cui, Y., 2018. Estimating the thickness of drift using a 3D depth-to-bedrock GOCAD model in the Ootsa Lake porphyry Cu-Mo-Au district of west-central British Columbia In: Geological Fieldwork 2017, Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Paper 2018-1, pp. 217-227.

Geoscience Maps

GM 2018-1

Plouffe, A., and Ferbey, T., 2018. Surficial geology of the Highland Valley Copper mine area (parts of NTS 092I/06, 7, 10 and 11), British Columbia, 1:50,000 scale.

Open Files

OF 2018-1

Clarke, G., Northcote, B., Katay, F., and DeGrace, J.R., 2018. Operating mines and selected exploration projects in British Columbia, 2017.

OF 2018-2

Nixon, G.T., Geology of the Tulameen Alaskan-type ultramafic-mafic intrusion, British Columbia, scale 1:20,000.

OF 2018-3

van Straaten, B.I., and S.J. Bichlmaier, S.J., 2018. Preliminary geology of the McBride River area, scale 1:50,000.

GeoFiles

GF 2018-1

Rukhlov, A.S., Mao, M., Spence, J., Creaser, R.A., Czech, E., and Gabites, J., 2018. Mineral chemistry and isotopic systematics of carbonatites and related rocks from the Blue River area. (Poster)

GF 2018-2

Nixon, G.T., Manor, M.J., and Scoates, J.S., 2018. Cu-PGE sulphide mineralization in the Tulameen Alaskan-type intrusion: Analogue for Cu-PGE reefs in layered intrusions? (Poster)

GF 2018-3

Mihalynuk, M.G., Friedman, R.M., Joyce, N., Camacho, A., and Zagorevski, A., 2018. Geochronologic data from samples collected in the Turtle Lake area, NTS 104M/16, northwest British Columbia.

GF 2018-4

Lett, R.E., 2018. Compilation of geochemical data between Lillooet and French Bar Creek, south-central British Columbia, 42 p.

GF 2018-5

Lett, R.E., 2018. Regional moss mat-sediment geochemical survey in the Porcher Island, Grenville Channel, and Dundas Island area, central British Columbia coast, 32 p.

GF 2018-6

Rukhlov, A.S., Chudy, T.C., Arnold, H., and Miller, D., 2018. Field trip guidebook to the Upper Fir carbonatite-hosted Ta-Nb deposit, Blue River area, east-central British Columbia, 67 p.

GF 2018-7

Lett, R.E., 2018. Digital data release for a multimedia geochemical survey in the McLeod Lake map area (NTS 093J/5, 6, 12), central British Columbia, 2 p.

GF 2018-8

Ferbey, T., Plouffe, A., and Hickin, A.S., 2018. Geochemistry and mineralogy of subsurface till samples recovered from diamond drill hole R17-01, Rateria property (porphyry Cu±Mo), south-central British Columbia, 15 p.

Information Circulars

IC 2018-1

Clarke, G., Northcote, B., Katay, F., and DeGrace, J.R., 2018. Provincial overview of exploration and mining in British Columbia, 2016. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey Information Circular 2018-1, 139 p.

Clarke, G., Northcote, B., Katay, F., and DeGrace, J.R., 2018. Exploration and mining in British Columbia, 2017: A summary. In: Provincial Overview of Exploration and Mining in British Columbia, 2017. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey, Information Circular 2018-1, pp. 1-33.

Northcote, B., 2018. Exploration and mining in the South Central Region, British Columbia. In: Provincial Overview of Exploration and Mining in British Columbia, 2017. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey, Information Circular 2018-1, pp. 85-103.

Northcote, B., 2018. Exploration and mining in the Southwest Region, British Columbia. In: Provincial Overview of Exploration and Mining in British Columbia, 2017. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey, Information Circular 2018-1, pp. 105-119.

Clarke, G., 2018. Exploration and mining in the Northwest Region, British Columbia. In: Provincial Overview of Exploration and Mining in British Columbia, 2017. British Columbia Ministry of Energy, Mines and Petroleum Resources, British Columbia Geological Survey, Information Circular 2018-1, pp. 121-139.

IC 2018-2

British Columbia Geological Survey, 2018. British Columbia coal industry overview 2017, 14 p.

IC 2018-3

Saanich Inlet, southern Vancouver Island, geology of an Aspiring Global Geopark, 8 p. (Brochure)

IC 2018-4

British Columbia bedrock geology. (Flyer)

IC 2018-5

The Golden Triangle of northwestern British Columbia, 8 p. (Brochure)

IC2018-6

The East Kootenay coalfields. (Poster)

IC2018-7

The Peace River coalfields. (Poster)

IC2018-8

British Columbia Geological Survey, 20 p. (Brochure)

IC2018-9

Online databases at the British Columbia Geological Survey, 16 p. (Brochure)

IC2018-10

Mineral Development Office, 4 p. (Brochure)

IC2018-11

Low-carbon energy technologies and metals mining in British Columbia, 8 p. (Brochure)

Peer-reviewed journal publications

Acosta-Góngora, P., Gleeson, S.A., Samson, I.M., Corriveau, L., Ootes, L., Jackson, S.E., and Taylor, B.E., 2018, Origin of sulfur and crustal recycling of copper in polymetallic (Cu-Au-Co-Bi-U±Ag) iron-oxide-dominated systems in the Great Bear Magmatic Zone, NWT, Canada. *Mineralium Deposita*, 53, 353-376.

Eyster, A., Ferri, F., Schmitz, M.D., and Macdonald, F.A., 2018. One diamictite and two rifts: Stratigraphy and geochronology of the Gataga Mountain of northern British Columbia. *American Journal of Science*, 318, 167-207.

McMechan, M., Currie, L., Richards, B., Ferri, F., Matthews, W., and Sullivan, P., 2018. Zircon provenance of the Carboniferous Mattson delta complex, western Laurentian margin, Canada: record of a Greenland-sourced pancontinental river system. *Canadian Journal of Earth Science*, 55, 1129-1138.

Milidragovic, D., Zagorevski, A., Weis, D., Joyce, N., and Chapman, J.B., 2018. Picrite “intelligence” from the Middle-Late Triassic Stikine arc: Composition of mantle wedge asthenosphere. *Lithos*, 308-309, 446-461.
<https://doi.org/10.1016/j.lithos.2018.03.014>.

Simandl, G.J., and Paradis, S., 2018. Carbonatites: Related ore deposits, resources, footprint, and exploration methods. *Applied Earth Science, Transactions of the Institutions of Mining and Metallurgy*, 127, 123-152.
<https://www.tandfonline.com/doi/full/10.1080/25726838.2018.1516935>.

Simandl, G.J., Akam, C., Yakimoski, M., Richardson, D., Teucher, A., Cui, Y., Paradis, S., McPhail, S., and Ferri, F., 2018. Elements in oil and gas field related produced waters, British Columbia, Canada. *CIM Journal*, 9, 195-214.
<https://doi.org/10.15834/cimj.2018.19>.

Simandl, G.J., Burt, R.O., Trueman, D.L., and Paradis, S., 2018. Tantalum and niobium: Deposits, resources, exploration methods, and market – primer for geoscientists. *Geoscience Canada*, 45, 85-96.
<https://doi.org/10.12789/geocanj.2018.45.135>.

Verbaas, J., Thorkelson, D.J., Crowley, J., Davis, W.J., Foster, D.A., Gibson, H.D., Marshall, D., and Milidragovic, D., 2018. A sedimentary overlap assemblage links Australia to northwestern Laurentia at 1.6 Ga. *Precambrian Research*, 305, 19-39.
<https://doi.org/10.1016/j.precamres.2017.10.001>.

Verbaas, J., Thorkelson, D.J., Milidragovic, D., Crowley, J.L., Foster, D., Daniel Gibson, H., and Marshall, D., 2018. Rifting of western Laurentia at 1.38 Ga: The Hart River sills of Yukon, Canada. *Lithos*, 316-317, 243-260.
<https://doi.org/10.1016/j.lithos.2018.06.018>.

Contributions to partner publications

McMechan, M.E., Ferri, F., and Matthews, W., 2018. Triassic formations in Liard Basin, northeastern British Columbia: sample descriptions, and detrital zircon U-Pb geochronology, methodology, results, and data tables. Geological Survey of Canada, Open File 8370, 14 p.

Paná, D.I., Rukhlov, A.S., Heaman, L.M., and Hamilton, M., 2018. Geochronology of selected igneous rocks in the Alberta Rocky Mountains, with an overview of the age constraints on the host formations. Alberta Energy Regulator, Alberta Geological Survey, Open File Report 2018-03, 60 p.
https://www.ags.aer.ca/publications/OFR_2018_03.html.

Paradis, S., and Simandl, G.J., 2018. Are there genetic links between carbonate-hosted barite-zinc-lead sulphide deposits and magnesite mineralization in southeast British Columbia? In: Rogers, N. (Ed.), Targeted Geoscience Initiative -2017, Report of Activities, Geological Survey of Canada, Open File 8358, pp. 217-227.