

Mount Meager Volcanic Complex Undivided Geology and Basement Contact Map

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GIS files

The digital shapefiles *Undiv_Polygons_attributed.shp* and *Undiv_unit_contacts_confidence.shp* are products of combining geological maps files from a few sources, namely:

1. Open File 603: *of_603_MapUnits.shp* AND *of_603_Contacts.shp*
2. Yuliana Proenza Meng Project: *MMVC_MapUnits_OF503_NAD83.shp*

As well as visual inspection of GSC published maps:

1. Open file 482: Geology of Pemberton Map Area (92J) – Woodsworth, G, 1977
2. Open file 5533: Geology, Pebble Creek Formation– Stewart et. al., 2008

Undiv_Polygons_attributed.shp reflect the prior mapping of MMVC bedrock lithologies as well as my personal mapping done over the summers of 2019-2020. The unit polygons have been attributed a “Join_Unit” as one of: Basement (undivided metasedimentary rocks and coastal plutonics), Volcanic (undivided rhyolites to basalts erupted in the Pleistocene), Pebble Creek (eruptive deposits from the 2360 BP eruption), Alluvium (undivided Quaternary sediments), or Landslide (deposits from the 2010 landslide event).

Undiv_unit_contacts_confidence.shp reflect the confidence of unit contacts from prior mapping files listed above and from my own personal investigation of unit contacts throughout the MMVC. Unit contacts are attributed a ‘Confidence’ of either: Known, Approximate, Inferred, or Limit of Map.

A full list of references used in the generation of this map are found below:

- Read, P., 1979, Meager Creek Geothermal Area: , p. 1 Sheet, doi:10.4095/129507.
- Read, P., 1990, Mt Meager Complex, Garibaldi Belt, Southwestern BC.: Geoscience Canada, v. 17, p. 167–170.
- Roberti, G., Ward, B., van Wyk de Vries, B., Friele, P., Perotti, L., Clague, J.J., and Giardino, M., 2018, Precursory slope distress prior to the 2010 Mount Meager landslide, British Columbia: Landslides, v. 15, p. 637–647, doi:10.1007/s10346-017-0901-0.
- Stewart, M.L., Russell, J.K., and Hickson, C.J., 2008, Geology, Pebble Creek formation, British Columbia: Geological Survey of Canada, Open File 5533, scale 1:10,000. p. 1 sheet.
- Wilson, A.M., and Russell, J.K., 2018, Quaternary glaciovolcanism in the Canadian Cascade volcanic arc—Paleoenvironmental implications: Field Volcanology: A Tribute to the Distinguished Career of Don Swanson. Geological Society of America, v. 538, doi:10.1130/2018.2538(06).

Woodsworth, G., 1977, Geology of Pemberton (92J) Map Area: Geological Survey of Canada, p. 1 sheet.