

# Geological Map of Western Mount Meager Volcanic Complex



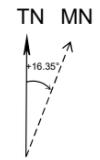
British Columbia

Scale 1:70,000



Kilometers

Universal Transverse Mercator Projection  
Zone 10U  
North American Datum 1983



Limit of Mapping

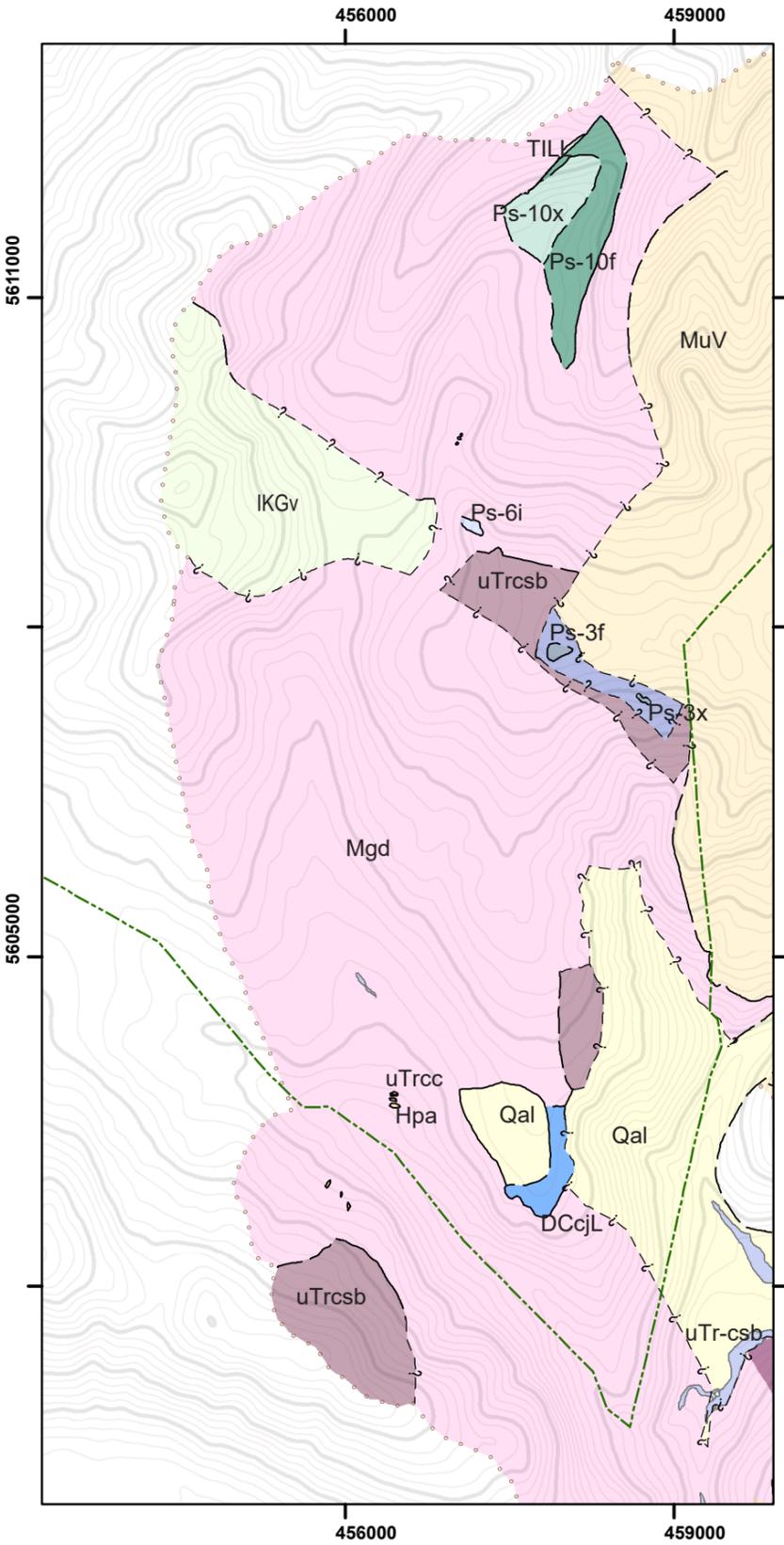
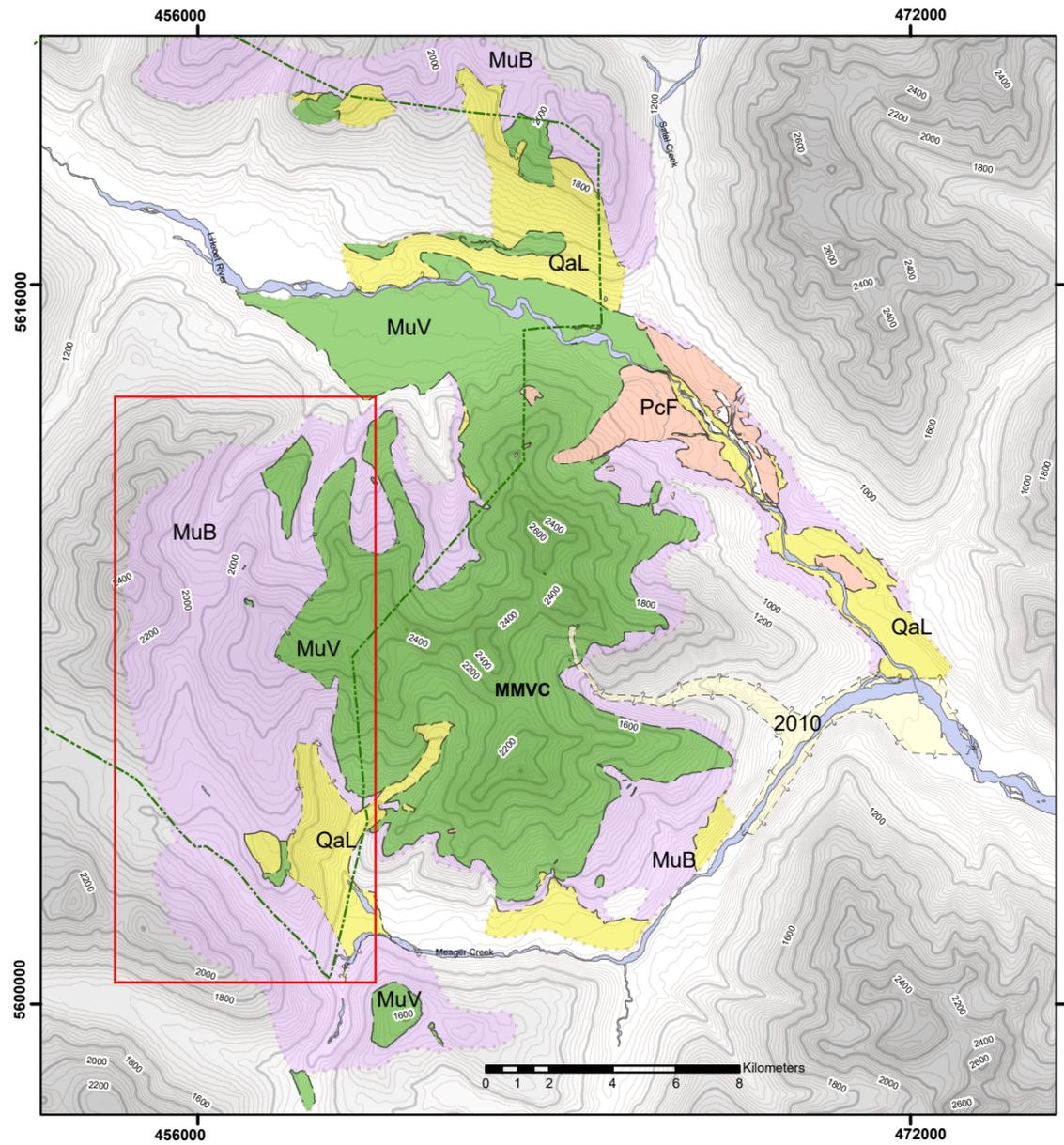
Contacts: *Observed*, *Approximate*, *Inferred*

Upper Lillooet Provincial Park Boundary

## Inset Map Legend

Meager Undivided Geology

- 2010 Landslide (2010)
- QaL Alluvium (Quaternary)
- PcF Pebble Cree Fm. (2360 B.P)
- MuV MMVC Undivided Volcanics (Pleistocene)
- MuB MMVC Undivided Basement (Triassic to Tertiary)
- Western MMVC Map Area



## Quaternary Deposits

- Qal Undivided Sediment (Quaternary) - Alluvium, colluvium, landslide
- TILL<sup>R</sup> TILL

## MMVC Volcanics

- MuV Mount Meager Volcanic complex Undivided Volcanics

### Mosaic Assemblage (Ps-10f and 10x)

- Ps-10f **Basalt** - Dark grey, olivine, plagioclase, and pyroxene porphyritic lava, moderately to highly vesicular
- Ps-10x **Basalt** - Dark grey, olivine and plagioclase porphyritic breccia, bombs, and tuff, moderately to highly vesicular
- Ps-6i **Andesite** - Light grey, plagioclase and hornblende porphyritic intrusion

### Pylon Assemblage (Ps-3f and Ps-3x)

- Ps-3f **Andesite** - Plagioclase and pyroxene porphyritic lava
- Ps-3x **Andesite** - Plagioclase and pyroxene porphyritic breccia and ash
- DCcjL **Dacite (Age Unknown)** - Coherent, plagioclase, augite, and hornblende porphyritic lava, light grey, minorly vesicular dacite, columnar jointed

## Basement (Intrusive and Metasedimentary)

- IKGv **Massive Breccia** - Aphanitic grey-green flows, tuff, and breccia with granitic detritus
- Mgd **Granodiorite** - Coarse to medium grained, biotite and hornblende rich
- Hpa **Hornblende Pyroxene Amphibolite** - Medium grained, plagioclase rich
- uTr-csb **Quartz Biotite Schist** - Coarse grained, quartz and biotite rich
- uTrcsb **Quartz Biotite Gneiss** - Coarse grained, quartz and biotite rich
- uTrcc **White Marble**

## References

Harris, M., Muhammad, M., Williams Jones, G., and Russell, J.K., 2020, Bedrock Mapping for Mount Meager Geothermal Research Initiative, Garibaldi Geothermal Energy Project, Mount Meager 2019 - Field Report: Geoscience BC, 2, 1-29.

Read, P.B., 1977, Meager Creek Volcanic Complex, southwestern British Columbia: Geological Survey of Canada, 77-1A, 277-281, doi:10.4095/102701.

Read, P.B., 1979, Geology of Meager Creek Geothermal Area, British Columbia: Geological Survey of Canada Open-File 603, 1 sheet, doi:10.4095/129507.

Read, P., 1990, Mt Meager Complex, Garibaldi Belt, Southwestern BC.: Geoscience Canada, 17, 167-170.

Roberti, G., 2019, Mount Meager, a glaciated volcano in a changing cryospheres (Doctoral Dissertation). British Columbia, Canada: Simon Fraser University.

Stewart, M.L., Russell, J.K., and Hickson, C.J., 2008, Geology, Pebble Creek formation, British Columbia: Geological Survey of Canada, Open File 5533, 1 sheet, doi:10.4095/225582.

Woodsworth, G., 1977, Geology of Pemberton (92J) Map Area: Geological Survey of Canada, p. 1 sheet, doi:10.4095/129282.

Wilson, A.M., 2019, Glaciovolcanism in the Garibaldi volcanic belt (Doctoral dissertation). British Columbia, Canada: University of British Columbia.

GIS Open Files:  
603: Geology, Meager Creek Geothermal Area, British Columbia  
Freshwater Atlas Rivers: Published by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development - GeoBCLI-censed under Open Government Licence - British Columbia

## Recommended citation:

Harris, M., Muhammad, M., Russell, J.K., and Williams Jones, G. 2020: Geological Map of Western Mount Meager Volcanic Complex, British Columbia, scale 1:70,000. Unpublished