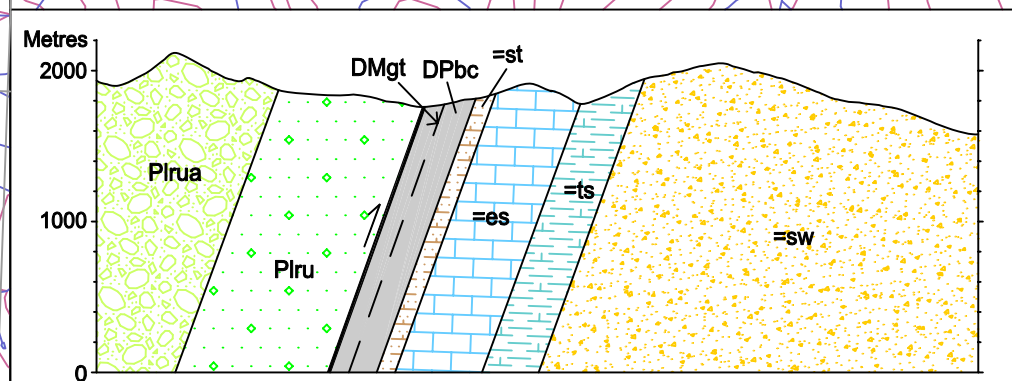
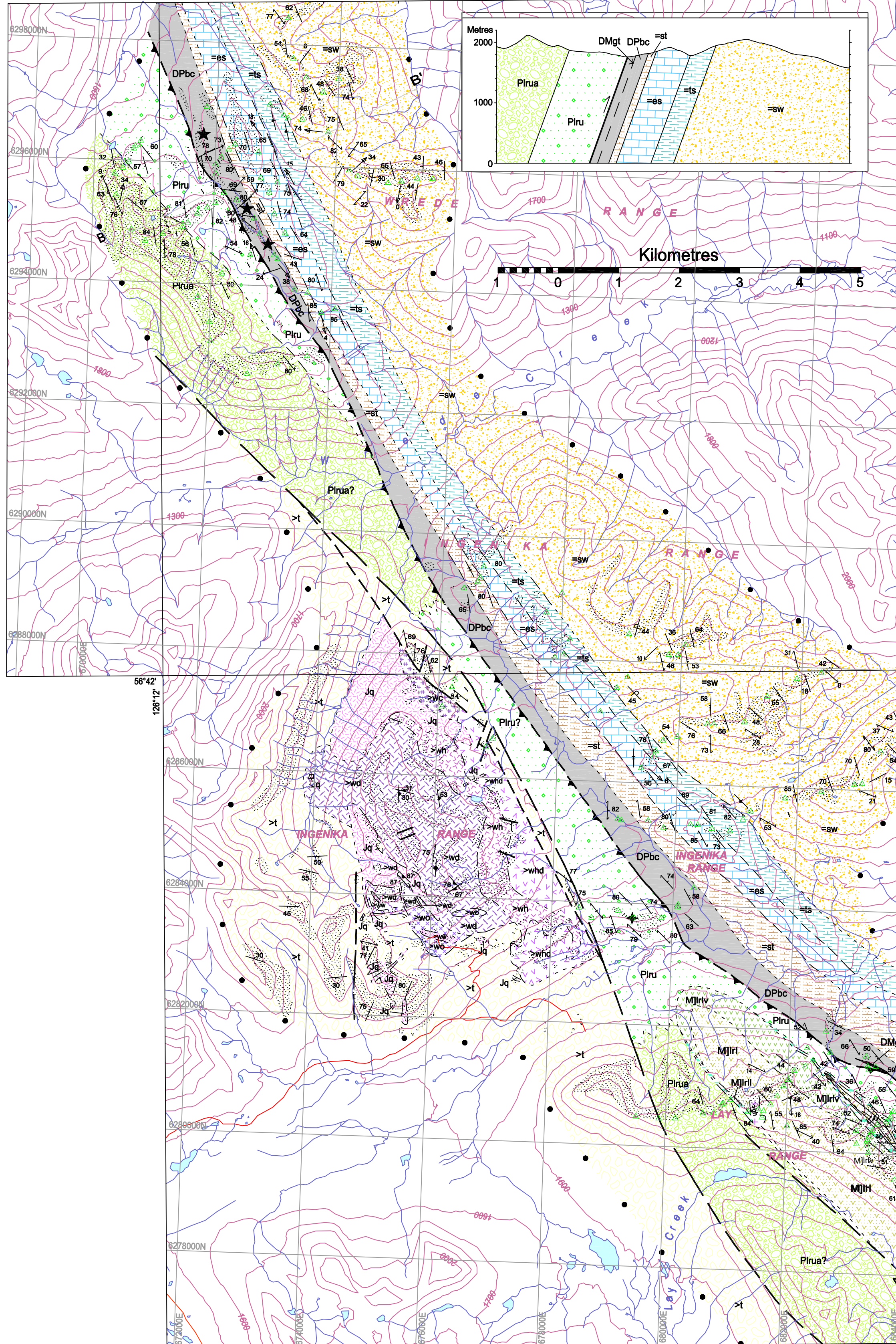




Preliminary Geology between Lay and Wrede Ranges,  
North-Central British Columbia  
(NTS 94C/12; 94D9 and 16)  
by Filippo Ferri  
1 : 50 000



- MIDDLE JURASSIC**  
Jq Buff-white weathering, white to pale grey, medium grained, argillaceous hornblende-bearing quartz monzonite/monzonitic quartz diorite/diorite
- LATE TRIASSIC**  
**Wrede Complex**  
>wd Pale grey to black weathering, fine to coarse grained hornblende diorite or gabbro/clinopyroxene-hornblende diorite or gabbro plagioclase  
>wh Medium brown weathering, coarse grained hornblende clinopyroxenite  
>wc Dark to medium grey-green weathering, medium to coarse grained undifferentiated clinopyroxenite, includes hornblende clinopyroxenite, olivine clinopyroxenite and olivine-hornblende clinopyroxenite  
>wo Medium to pale grey-green weathering, medium to coarse grained olivine clinopyroxenite  
>ww Dark to medium brown weathering predominantly medium grained or medium to coarse grained wehrlite  
>whd Pale buff-orange weathering, dark grey to black, fine to medium grained dunite  
>gh Rusty weathering, grey-green, biotite-bearing gabbro and grey to orange weathering coarsely crystalline hornblende
- Takla Group**  
>t Pale to medium grey-green weathering, dark grey-green augite-feldspar bearing volcanic breccia, tuffs and flows
- MIDDLE PENNSYLVANIAN? TO PERMIAN**  
**Lay Range Assemblage**  
**Upper Mafic Tuff Division**  
Plrua Grey-green or maroon weathering, pale to dark green and maroon, feldspar-pyroxene lapilli tuffs volcanic breccia, flows and lesser crystal tuffs. Rare grey limestone  
Plru Pale greenish grey to green weathering, green to grey green thin to thickly bedded and well laminated tuff. Locally dark green aphanitic basalt with associated lapilli tuff and volcanic breccia. -Flare rusty weathering, quartz-bearing tuff to sericite schist  
Mjlril Grey to buff weathering grey limestone. Massive to platy, locally bioclastic with interlayers of beige to pale grey chert. Locally contains maroon and green siltstone or tuffaceous horizons. Tan to buff weathering, white to cream recrystallized massive dolomite  
Mjlriv Grey-brown weathering, dark green, aphanitic basalt, lesser volcanic breccia and tuff. Locally aphanitic. Pale to green, medium to coarsely crystalline gabbro to quartz monzonite, locally foliated  
Mjlril Thick to massively bedded, beige to brown weathering, tan to greenish brown calcareous sandstone, very fine to granule conglomerate. Interlayered with black argillite, green tuffaceous siltstone, thin bedded white to grey chert and brown to orange weathering grey platy limestone
- LATE DEVONIAN TO PERMIAN**  
**Big Creek Group**  
DPbc Dark grey, dark blue-grey to black slate and thin to moderately bedded argillite. Minor horizons of dark grey to black quartz-chert wackes, sandstones and lesser granule conglomerate. \* Locally contains thin horizons of light coloured quartz-feldspar-bearing felsic tuff and dark green basalt.  
DMgt \*Gilliland Tuff\*: Rusty to tan weathering, pale grey to dark grey or greenish grey, quartz-feldspar tuff to lapilli tuff. Sericite and locally contains pyrite and ankerite porphyroblasts. Minor argillite clasts. Locally contains tan to grey weathering, very fine to medium crystalline diorite or quartz diorite which can be associated with dark green basalt.
- LATE PROTEROZOIC**  
**Ingenika Group**  
Stelkuz Formation  
=st Rusty brown weathering, greenish grey slate, lesser thin to massively bedded cream impure quartzite and quartz sandstone and thinly bedded, grey limestone  
Espee Formation  
=es Grey to buff weathering, platy and blocky, finely recrystallized limestone and dolomitic limestone, grey calcareous siltstone. Cross-cutting zones of orange weathering, coarsely crystalline dolostone are locally present.  
Tsaydzil Formation  
=ts Thinly interlayered, grey to orange-brown weathering, grey to green-grey siltstone, calcareous siltstone and grey to orange weathering, grey limestone.  
Swannell Formation  
=sw Thickly bedded, grey-green to green, feldspar-bearing quartz sandstone to wacke, quartz sandstone, siltstone, siltstone, impure quartzite and rare grey limestone. Schistose in its lowest parts, locally containing biotite porphyroblasts.
- Geologic boundary** (approximate, assumed): - - - - -  
**Thrust Fault** (approximate, assumed): - - - - -  
**Fault, unknown displacement** (approximate, assumed): - - - - -  
**Fold axis, overturned** (anticline, syncline): - - - - -  
**Bedding** (top known-inclined, vertical overturned-inclined, vertical, unknown-inclined, vertical): .....  
**Foliation** (first, second generations inclined, vertical): .....  
**Chromite schlieren** (inclined, vertical): .....  
**Bedding cleavage intersection**: .....  
**Fold axial plane**: .....  
**Shear zone**: .....  
**Field station**: .....  
**Area of abundant exposure**: .....
- This map is NAD83 Universal Transverse Mercator.  
The region west of 126°W occurs within UTM Zone 9.  
The region east of 126°E occurs within UTM Zone 10.
- Geology of the Wrede Complex taken from Nixon et al. (1998).

