

LEGEND

QUATERNARY
Q QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel

LAYERED ROCKS
SILURIAN TO DEVONIAN (?)
SDc BOUVETTE FORMATION (?): dolostone and limestone - North of Kathleen Lakes fault
Kathleen Lakes fault
ORDOVICIAN TO DEVONIAN (?)
ODR ROAD RIVER GROUP (?): black shale and chert, minor limestone, well bedded; thicker and more extensive limestone mapped separately as ODRc; occurs mainly between the Kathleen Lakes and Dawson faults; minor black shale and chert interbedded with carbonate north of Kathleen Lakes fault are possibly equivalent
ODRc carbonate debris flows: fossiliferous packstone and grainstone; common black chert pebble; variably dolomitized

Dawson thrust

INTRUSIVE ROCKS
PALEOZOIC (CAMBRIAN?)
Pum listwaenite, serpentinite; minor gabbro and pyroxenite
Pg pyroxenite, gabbro

LAYERED ROCKS
CAMBRIAN - ORDOVICIAN (?)
COvc volcanic conglomerate, cobble to boulder
COv basalt

LAYERED ROCKS
MISSISSIPPIAN
MT TSICHU GROUP: sandstone, shale; minor chert
unconformity
UPPER DEVONIAN TO LOWER MISSISSIPPIAN
DMEp EARN GROUP, PREVOST FORMATION: black shale with laminated white siltstone, coarsening and grading upward to sandstone-shale couplets
MIDDLE TO UPPER DEVONIAN
DEpl EARN GROUP, PROTRAIT LAKE FORMATION: black shale, grey, black and grey-green chert; black shale occurring in one siver within the Dawson thrust zone is also assigned to this unit, but could also be part of the Road River Group (?)
DEplc limestone
unconformity
NEOPROTEROZOIC (EDIACARAN) TO LOWER CAMBRIAN
PChn HYLAND GROUP, NARCHILLA FORMATION: maroon, green, grey shale, siltstone, black, gritty sandstone; locally, green and white sandstone. Note: maroon shale typical of the Narchilla Formation also occurs locally below or within dolomitic limestone of the Algae Formation
NEOPROTEROZOIC (EDIACARAN)
Phtc HYLAND GROUP, ALGAE FORMATION: light grey to buff weathering dolomitic limestone and dolostone; dark grey limestone; commonly graded and cross-bedded; locally, intra-clast ruststone and floatstone (flat-pebble conglomerate)
Phy HYLAND GROUP, YUSEZYU FORMATION: brownish-grey sandstone and grit (pebbly sandstone), calcareous near top of formation; grey, olive green, and rare maroon shale and siltstone

SYMBOLS

geologic contacts (defined, approximate, inferred, covered).....

fault: movement not known (approximate, inferred, covered).....

thrust fault (defined, approximate, inferred, covered).....

normal fault (inferred).....

limit of outcrop (approximate).....

anticline (upright, overturned).....

syncline (upright, overturned).....

bedding (S₁ inclined, upright, overturned).....

pressure-solution cleavage (S₁).....

spaced cleavage (S₁).....

intersection lineation (S₁, S₂) (vergence: m, s, z).....

fold axis (vergence: m, z).....

field station.....

directional view of photograph.....

apparent dip of bedding in cross section.....

apparent dip of cleavage in cross section.....

Mineral Occurrences

Number	Name	Status	Commodity	Deposit type
106C 073	• Craig (Crag)	deposit	Pb, Zn, Ag	replacement
106C 081	• Tell	anomaly	Zn, As	sedex?
106C 098	• Tanner	drilled prospect	barite	sedex

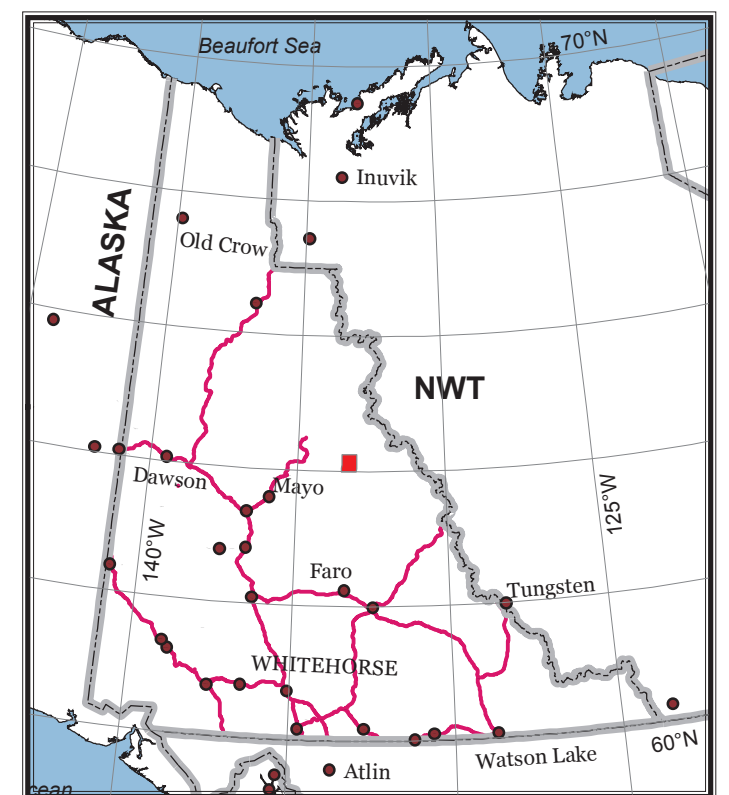
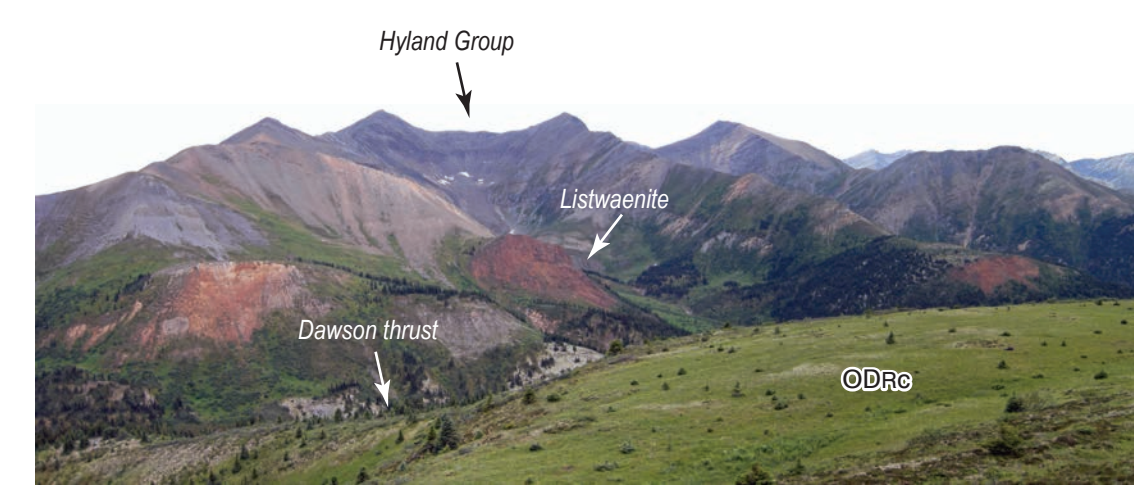
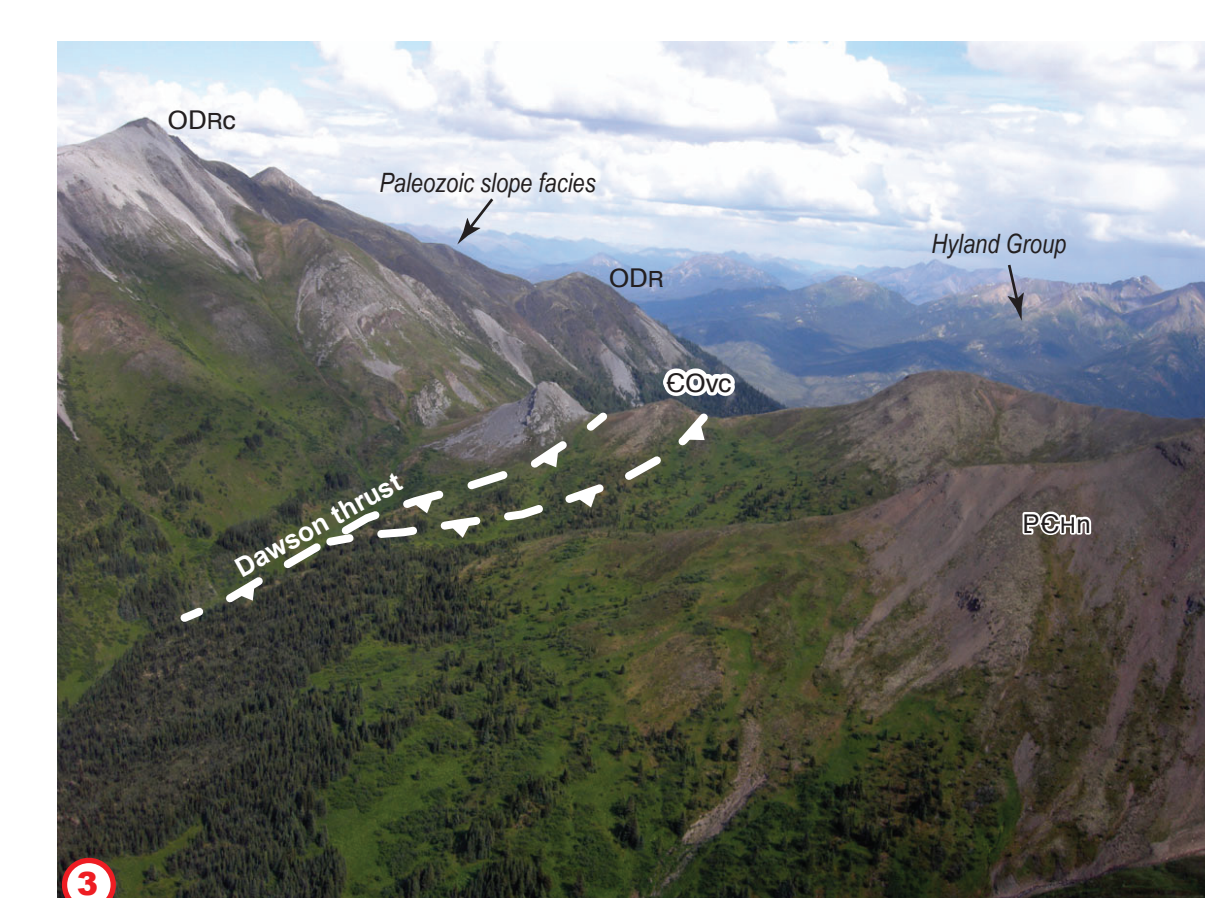
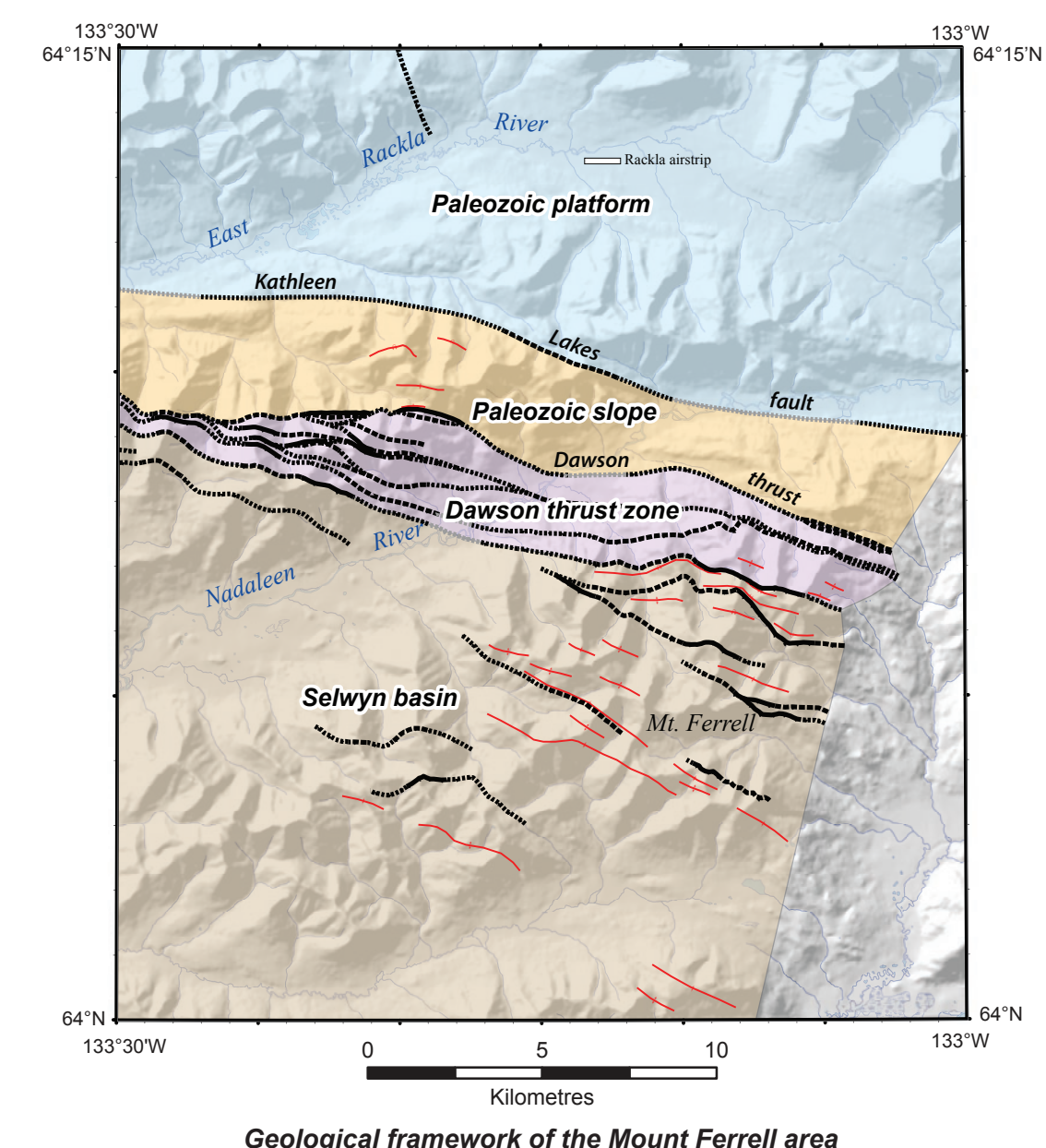
NOTE
Only limited observations were made north of the East Rackla River in 2011. The geology shown here for this part of the map is mainly compiled from the reconnaissance mapping of Blusson (1974).

REFERENCE
BLUSSON, S.L., 1974. Five geological maps of northern Selwyn Basin (Operation Stewart), Yukon Territory and District of Mackenzie, N.W.T. Geological Survey of Canada, Open File 205, 1:250 000.

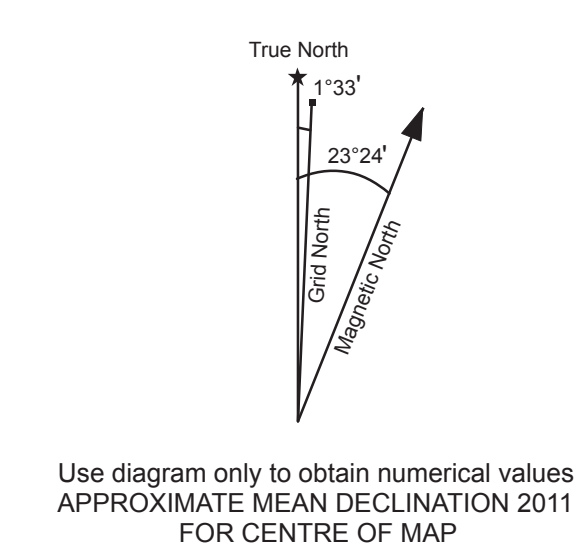
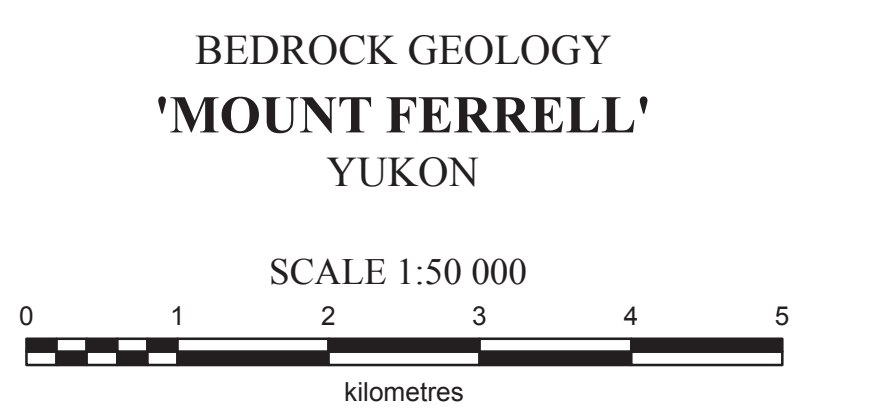
RECOMMENDED CITATION
COLPRON, M., 2012. Preliminary geological map of Mount Ferrell (106C/3), southern Nadaleen map area, Yukon. Yukon Geological Survey, Open File 2012-11, 1:50 000 scale.

Digital cartography and drafting by Maurice Colpron, Yukon Geological Survey. Luke Bickerton provided assistance in the field.
Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map may be obtained from Geoscience Information and Sales, Yukon Geological Survey, Energy, Mines and Resources, Yukon Government, P.O. Box 2703 (K-102), Whitehorse, Yukon, Y1A 2C6. Ph. 867-667-3201, Fx. 867-667-3198, Email: geosales@gov.yk.ca.
A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.



1:50 000 scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA
ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 8
CONTOUR INTERVAL 100 FEET Elevations in feet above Mean Sea Level



106C/5 RUSTY MOUNTAIN	106C/6 BONNET PLUME PASS	106C/7 GOZ CREEK
106C/4 MOUNT MERVYN	THIS MAP	106C/2 ORTELL LAKE
105N/13 PENAPE LAKE	105N/14 SEVEN MILE CANYON	105N/15 MOUNT ORTELL

Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2012-11
Preliminary geological map of Mount Ferrell (NTS 106C/3), southern Nadaleen map area, Yukon (1:50 000 scale)
by
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