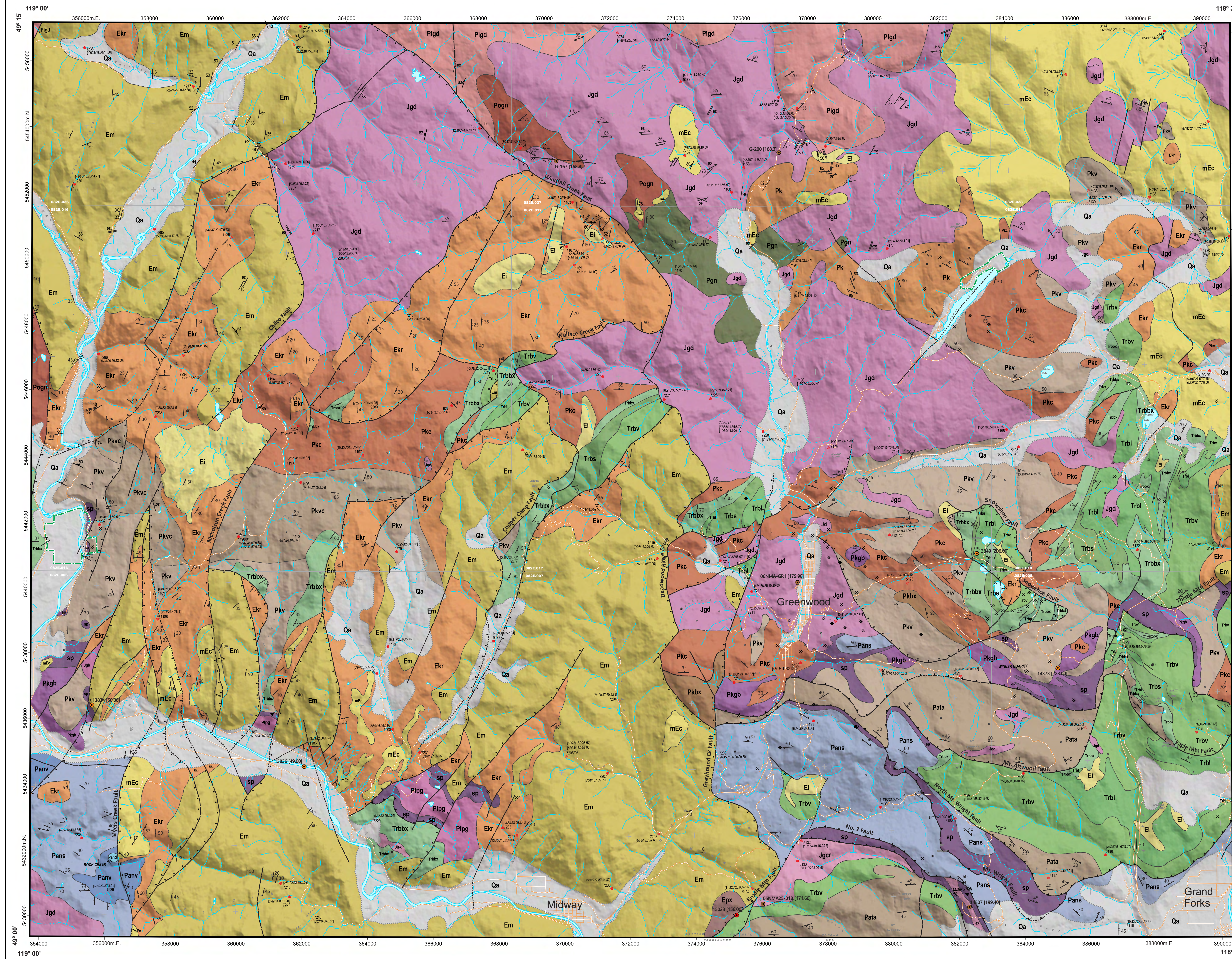


Geology and Compilation by Trygve Höy
Cartography by Wayne Jackaman

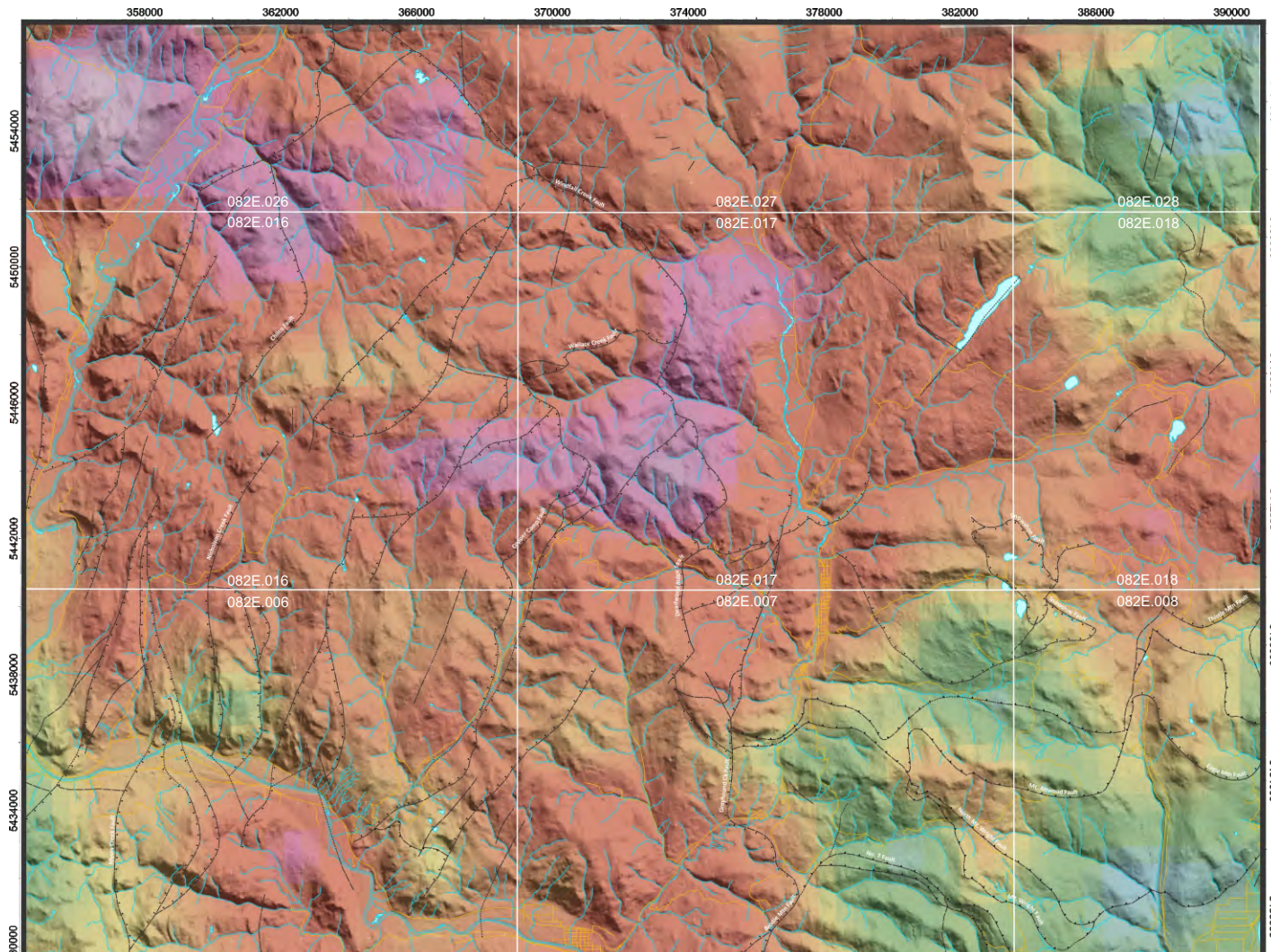
LEGEND

- CENOZOIC**
- QUATERNARY**
- Qa Unconsolidated sediments
- TERTIARY**
- Eocene**
- mEc Conyell intrusions: alkalic intrusive rocks; syenite, monzonite
 - Ei Eocene intrusions: syenite, pulaskite, monzonite, diorite (may include mEc)
- Pentiction Group**
- Em Marron Formation: trachyte, alkali basalt, tuff; minor shale or slate
 - Ekr Kettle River Formation: sandstone, conglomerate, feldspathic grit; minor shale, tuff
 - Exp Chert, phyllite, greenstone breccia (possibly fault breccia or part of Ekr)
- Paleocene (Cretaceous?)**
- Pigd Granodiorite, massive, leucocratic; "white granite", locally porphyritic
 - Ppgr Granite, locally porphyritic granite; magmatic K-spar granite
- MESOZOIC**
- Jurassic**
- Jgd Granodiorite, granite, minor diorite; locally porphyritic
 - Jd Diorite
 - Jgb Gabbro
 - Jgcr Gidon Creek porphyry: quartz-feldspar porphyry
 - Jjex Lexington porphyry: feldspar porphyry, quartz diorite
 - Ppgr Orthogneiss: grey biotite-feldspar-quartz gneiss, diorite to granodiorite composition
- Triassic**
- Brooklyn Formation**
- Trbv Greenstone, fragmental; microdiorite
 - Trbl Limestone, calcareous sandstone and conglomerate; minor skarn
 - Trbs Tuffaceous sandstone, light green, siltstone, hornfels
 - Trba Siltstone, argillite, dark grey to black
 - Trbbx Chert breccia; minor tuff, tuffaceous sandstone, conglomerate
- PALEOZOIC**
- Late Devonian to Early Permian**
- Atwood Formation**
- Pata Argillite, siltstone; minor limestone and mafic volcanic rocks
- Knob Hill Complex**
- Pkbg Greenwood gabbro "Old Diorite"; gabbro, gabbroic pegmatite, diabase
 - Pk Undifferentiated Knob Hill Complex
 - Pkc Chert, metachert, chert breccia, argillite; minor greenstone and limestone
 - Pkvc Transition zone between Pk and Pkv
 - Pkv Greenstone, pillow lava, breccia; minor limestone, chert and argillite
 - Pkxb Chert breccia and conglomerate
 - sp Serpentine, ultramafic rocks, listwanite
- Anarchoist Schist (age unknown)**
- Pans Metasediments: quartzite (metachert), quartz-chlorite schist, quartz-sericite schist, argillite; minor greenstone, barite
 - Panv Metavolcanics: massive to schistose greenstone, breccia, chlorite schist; minor quartzite and metasediments
 - Pand "Mighty White Dolomite"; white dolomite; minor skarn and chlorite dikes
- Age Unknown**
- Pgn Paragneiss, sericite-quartz schist, gneiss, quartzite; minor marble and mafic metavolcanics (probably part of Anarchoist Schist or Knob Hill Complex)

- SYMBOLS**
- CONTACT OF ALLUVIUM
 - FAULT: DEFINED, APPROXIMATE
 - FAULT: DEFINED, APPROXIMATE, ASSUMED
 - NORMAL FAULT: DEFINED, APPROXIMATE, ASSUMED
 - THRUST FAULT: DEFINED, APPROXIMATE, ASSUMED
 - FAULT: MINOR
 - BEDDING, LAYERING / TOPS UNKNOWN
 - FOLIATION, CLEAVAGE
 - JOINT
 - VEIN
 - DYKE
 - MINIFILE OCCURRENCE (PRODUCER/PAST PRODUCER)
 - MINIFILE OCCURRENCE (PROSPECT/SHOWING)
 - AGE DATES (Ma)
 - KIA/AGE DATES (Ma)
 - U-Pb AGE DATES (Ma)
 - RGS STRAT SITE (ID NUMBER & ALIQUOT/CLIP)
 - PROVINCIAL HIGHWAY/ROAD
 - PARK BOUNDARY
- BASE MAP INFORMATION**
- NORTH AMERICAN DATUM 1983
UTM ZONE 11
TRANSVERSE MERCATOR PROJECTION
- APPROXIMATE MEAN DECLINATION 2016
FOR CENTRE OF MAP RECT. 15° 17' E
ANNUAL CHANGE DECREASING 8 P.
- National Topographic Data Base (NTDB)
URL: <http://www.geogov.gc.ca>
Natural Resources Canada
Centre for Topographic Information
Canadian Digital Elevation Data (CDED)
URL: <http://www.geobase.ca>
Base Mapping and Geomatics Services,
B.C. Government



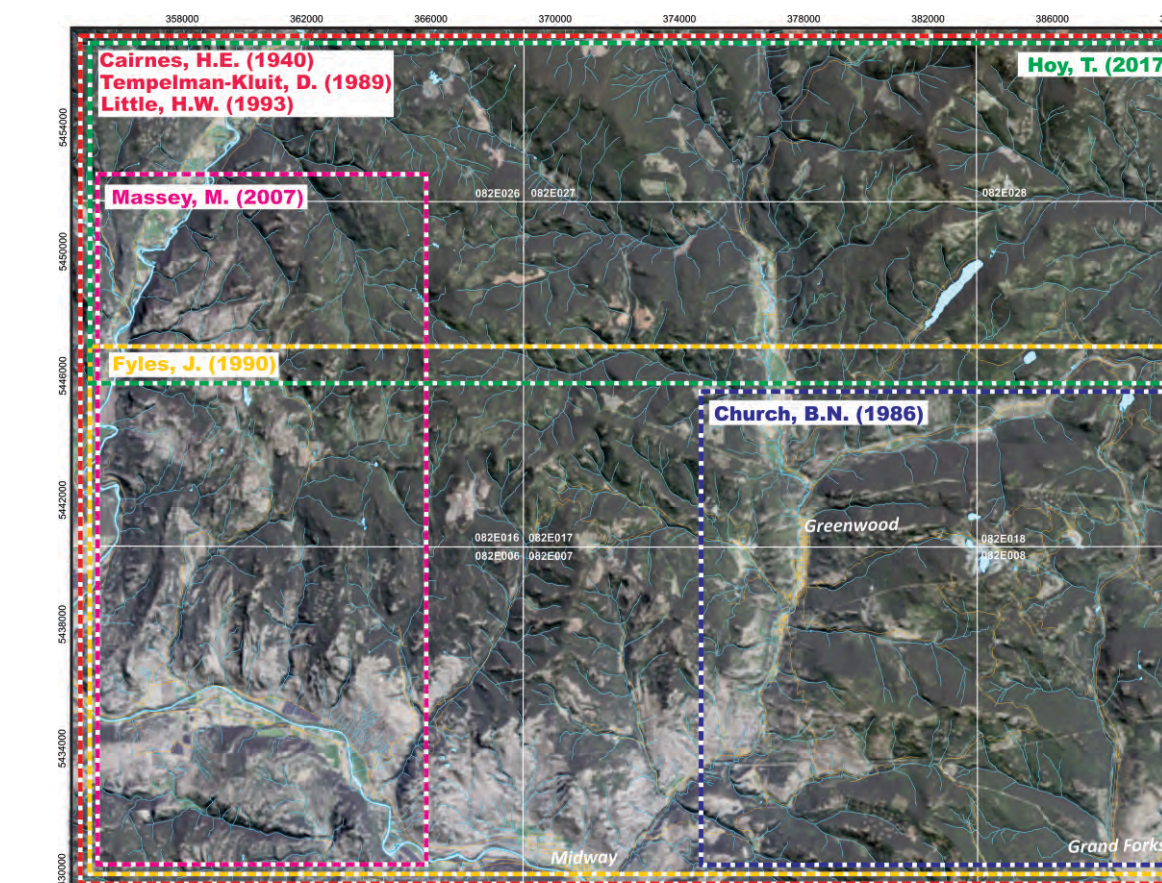
AEROMAGNETIC DATA - NTS 082E/02



SOURCES OF DATA

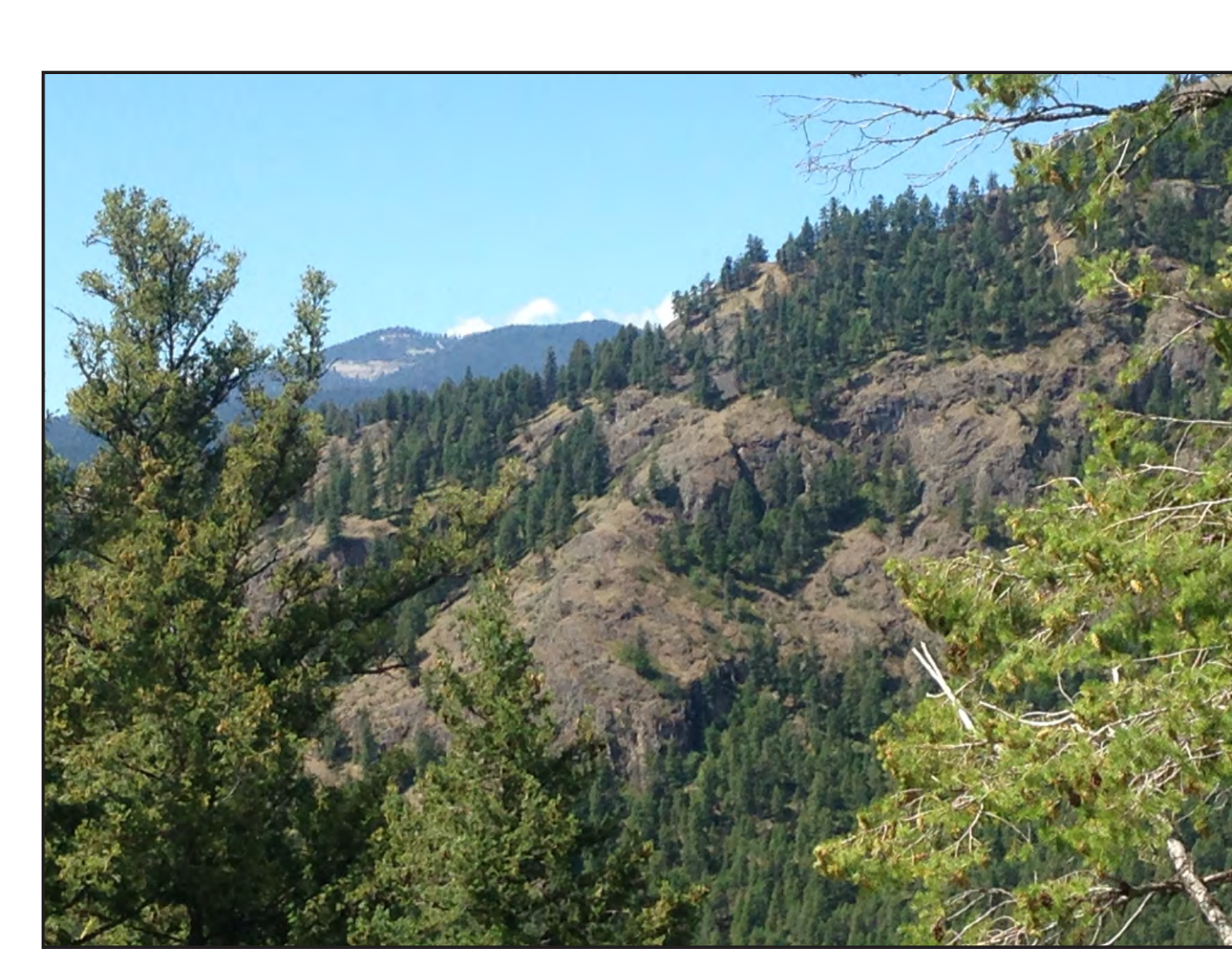
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View south across the Kettle River from the slopes above Midway. Eocene Marron Formation volcanics are in the foreground, and the Buckhorn Mountain gold skarn mine in Washington State is visible in the far hills.

AGE DATES: Greenwood map sheet (082E/02) and immediately adjacent areas.

Sample Number	Map Sheet	UTME	UTMN	Rock Type	Map Unit	Name	Collector (Reference)	Dated By	Method/Mineral	Age (Ma)	Epoch
19824	082E/02	357159	543203	volcanic with	Em	Marron Fm.	Mathews (1964)	U of Ala	K/Ar	50.14	Eocene
13856	082E/02	362174	543434	porphyry sill	Em	Marron Fm.	Mathews (1964)	U of Ala	K/Ar	49.24	Eocene
15053	082E/02	375228	542926	pyroxenite	Sappho	Nixon & Archibald (2007)	Queen's Univ.	APR	U-Pb	156.13	Mid Jur
14507	082E/02	382299	542918	qtz-Rsp porphyry	Jjex	Lexington	Dostal et al. (2011)	UBC	U-Pb	198.41 ± 1.4	Early Jur
13849	082E/02	382771	544059	microdiorite	Trb	Brooklyn Fm?	Church (1986)	UBC	K/Ar	206.16	Triassic
14373	082E/02	385156	543882	clinopyroxenite	Jgd	Greenwood gabbro	Church (1986)	UBC	K/Ar	223.16	Triassic
082NA-G-1	082E/02	377288	543906	granodiorite	Jgd	Greenwood stock	Massey et al. (2010)	J. Gables, UBC	U-Pb	179.8 ± 3.8	Mid Jur
G-167	082E/02	370296	545283	gneiss	Jgd		T. Hoy (2018)	R. Friedman, UBC	U-Pb	162.8 ± 1.2	Mid Jur
G-200	082E/02	370113	545282	granodiorite	Jgd/Pgn		T. Hoy (2018)	R. Friedman, UBC	U-Pb	168.3 ± 1.2	Mid Jur
052NA25-018	082E/02	376036	542899	qtz-Rsp porphyry	Jjex	Gidon Cr porphyry	Massey et al. (2010)	J. Gables, UBC	U-Pb	171.6 ± 2.3	Mid Jur
AM-67	082E/02	361478	545170	andesite	Em	Marron Fm.	T. Hoy (2018)	J. Gables, UBC	Ar-Ar	59.2 ± 0.8	Paleocene
082NA22-12A	082E/03	382916	544624	granodiorite	Pgn		Massey et al. (2010)	J. Gables, UBC	U-Pb	187.7 ± 1.1	Early Jur
082NA05-01-02	082E/03	382934	543124	granodiorite	Jgd		Massey et al. (2010)	J. Gables, UBC	U-Pb	157.0 ± 1.2	Mid Jur