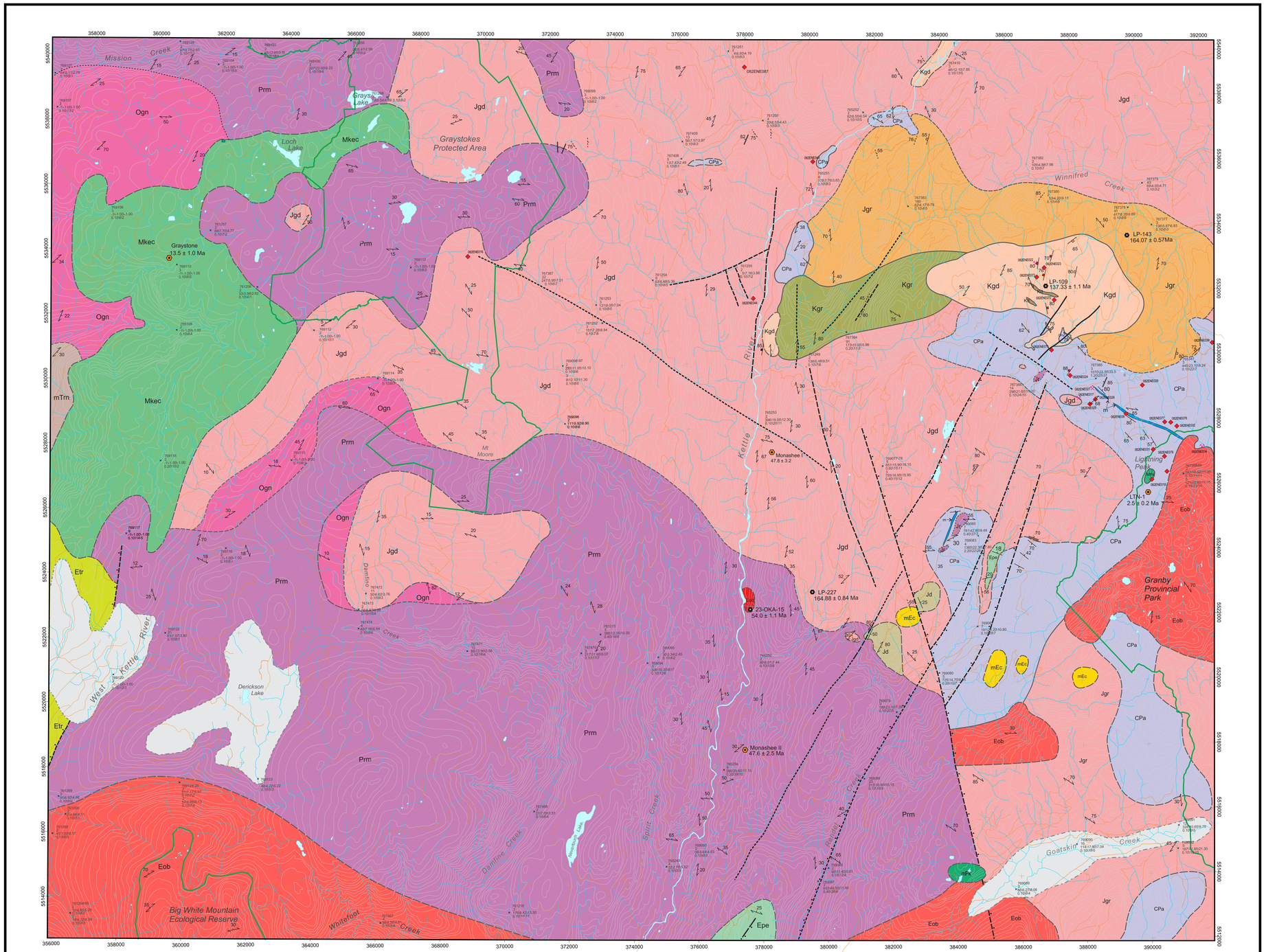
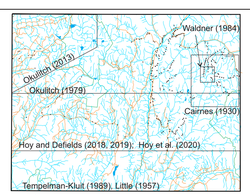



Winnifred Creek road

MAP SOURCES

rivers, creeks
roads
traverse and station localities (2018, 2019)

6 km



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AGE DATES

SAMPLE	UTME	UTMN	UNIT	HOST	DESCRIPTION	AGE Ma(± error)	SYSTEM	LAB	REFERENCE
LP-109	389688	5533746	Kgd	Lightning Peak stock	granodiorite	137.33 ± 1.1	U-Pb zr	UBC	Höy et al. (2019)
LP-143	389688	5533746	Jgd	Nelson plutonic complex	granodiorite	164.07 ± 0.6	U-Pb zr	UBC	Höy et al. (2019)
LP-227	379632	5522947	Jgd	Nelson plutonic complex	granite	164.88 ± 0.8	U-Pb zr	UBC	Höy et al. (2019)
23-OKA-10	391131	5549518	Jgd	Spruce Grove pluton	granite	172.5 ± 1.1	U-Pb zr	CSU	Cecil (2024)
23-OKA-15	377583	5522832	Eob	Okanagan batholith	"granite"	54.0 ± 1.1	U-Pb zr	CSU	Cecil (2024)
LTN-1	390111	5526214	MPk	Kallis Formation	Olivine basalt	2.5 ± 0.2	K/Ar wr	UBC	Mathews (1988)
Graystoke	359697	5533816	Mkec	King Edward Formation	plateau basalt	13.5 ± 1.0	K/Ar wr	UBC	Mathews (1988)
Monashee II	376981	5517784	Eob?	Okanagan complex	"augen" granite, foliated	47.6 ± 2.5	K/Ar bi	GSC	Wanless et al. (1979)
Monashee I	378389	5527021	Eob?	Nelson plutonic complex	granitoid gneiss	47.8 ± 3.2	K/Ar bi	GSC	Wanless et al. (1979)

SOURCES OF DATA

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Ministry of Mining and Critical Minerals
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Geology of the Lightning Peak map area (NTS 082E/15)

T.Höy and G.M. DeFields

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scale 1:50,000

0 1 2 3 4 5

kilometres

CENOZOIC

QUATERNARY

- Qa — alluvium

MIOCENE TO PLIOCENE

- MPk — KALLIS FORMATION: plateau basalt, black to dark green, fine grained, locally olivine phyric (ca. 7.3 - 2.9 Ma)

MIOCENE

- Mkec — KING EDWARD FORMATION: olivine basalt, black to dark green, locally columnar jointed (ca. 20.4 - 10.4 Ma)

EOCENE

PENTICTON GROUP

- Epe — tuff and alkalic metavolcanic rocks of the Marron Formation; dacitic tuff, grit and sandstone of the Kettle River Formation
- Etr — Trepanier rhyolite: flow-banded rhyolite, tuff

CORYELL PLUTONIC SUITE

- mEc — undifferentiated syenite and monzonite

OKANAGAN BATHOLITH

- Eob — granite; locally megacrystic porphyritic; massive to medium grained granite, quartz monzonite

MESOZOIC

CRETACEOUS

LIGHTNING PEAK INTRUSIONS

- Kgd — porphyritic granodiorite, granite (137.33 ± 1.1 Ma)
- Kd — pyroxenite, diorite; amphibolite (age unknown)
- Kgr — granite, quartz monzonite; locally K-spar porphyritic

JURASSIC

NELSON PLUTONIC SUITE

- Jgd — SPRUCE CREEK BATHOLITH: granodiorite, less commonly quartz diorite, minor diorite, granite; locally porphyritic (ca. 164-175 Ma)
- Jd — diorite, quartz diorite, minor granodiorite; locally foliated or gneissic granodiorite or diorite
- Jdp — hornblende-plagioclase diorite dike
- Jgr — porphyritic granite, monzonite

LOWER JURASSIC

ROSSLAND GROUP

- Jr — undifferentiated augite-phyric mafic volcanic rocks

UPPER TRIASSIC (?)

NICOLA GROUP

- mTrn — undifferentiated metasedimentary rocks; phyllite, slate, argillite, minor quartzite, argillaceous limestone, greenstone

PALEOZOIC

CARBONIFEROUS TO PERMIAN

ANARCHIST SCHIST

- CPa — undifferentiated metasedimentary and metavolcanic rocks; greenstone, marble, schist and argillite; m — marble

PRECAMBRIAN

PROTEROZOIC(?) TO PERMIAN

OKANAGAN GNEISS

- Ogn — orthogneiss, granodiorite commonly grading to gneiss; minor mylonite, paragneiss; (in part derived from either Okanagan batholith or Nelson intrusions)

PROTEROZOIC

MONASHEE GNEISS

- Prm — quartz-feldspar schist, hornblende schist, amphibolite; paragneiss, minor quartzite and marble; may include Okanagan gneiss

SYMBOLS

- CONTACT OF ALLUVIUM
- CONTACT: DEFINED, APPROXIMATE, INFERRED
- FAULT: DEFINED, APPROXIMATE, INFERRED
- NORMAL FAULT: DEFINED, APPROXIMATE, INFERRED
- BEDDING: INCLINED, VERTICAL
- FOLIATION: INCLINED, VERTICAL
- VEIN
- DIKE
- FAULT, SHEAR
- PROMINENT JOINT
- PAST PRODUCING MINE — MINFILE NO.
- MINERAL OCCURRENCE
- U-Pb AGE DATE (Ma) — SAMPLE [DATE]
- K/Ar AGE DATE (Ma) — SAMPLE [DATE]
- PROVINCIAL REGIONAL GEOCHEMICAL SILT SAMPLE SITE — SAMPLE [Au ppb by INA] [Ag ppb, Cu ppm, Pb ppm by ICP] [Ag ppb, Cu ppm, Pb ppm by AAS]
- ROAD
- STREAM, RIVER; LAKE
- PARK BOUNDARY

BASE MAP INFORMATION

NAD 1983 UTM ZONE 11
TRANSVERSE MERCATOR PROJECTION
APPROXIMATE MEAN DECLINATION 2021 FOR CENTRE OF MAP 082F/05
ANNUAL CHANGE 8.7'/YEAR WEST

National Topographic Data Base (NTDB)
URL http://www.geogratis.ca
Natural Resources Canada, Centre for Topographic Information

Canadian Digital Elevation Data (CDED)
URL http://www.geobase.ca
Base Mapping and Geomatic Services - B.C. Government

LOCATION MAP