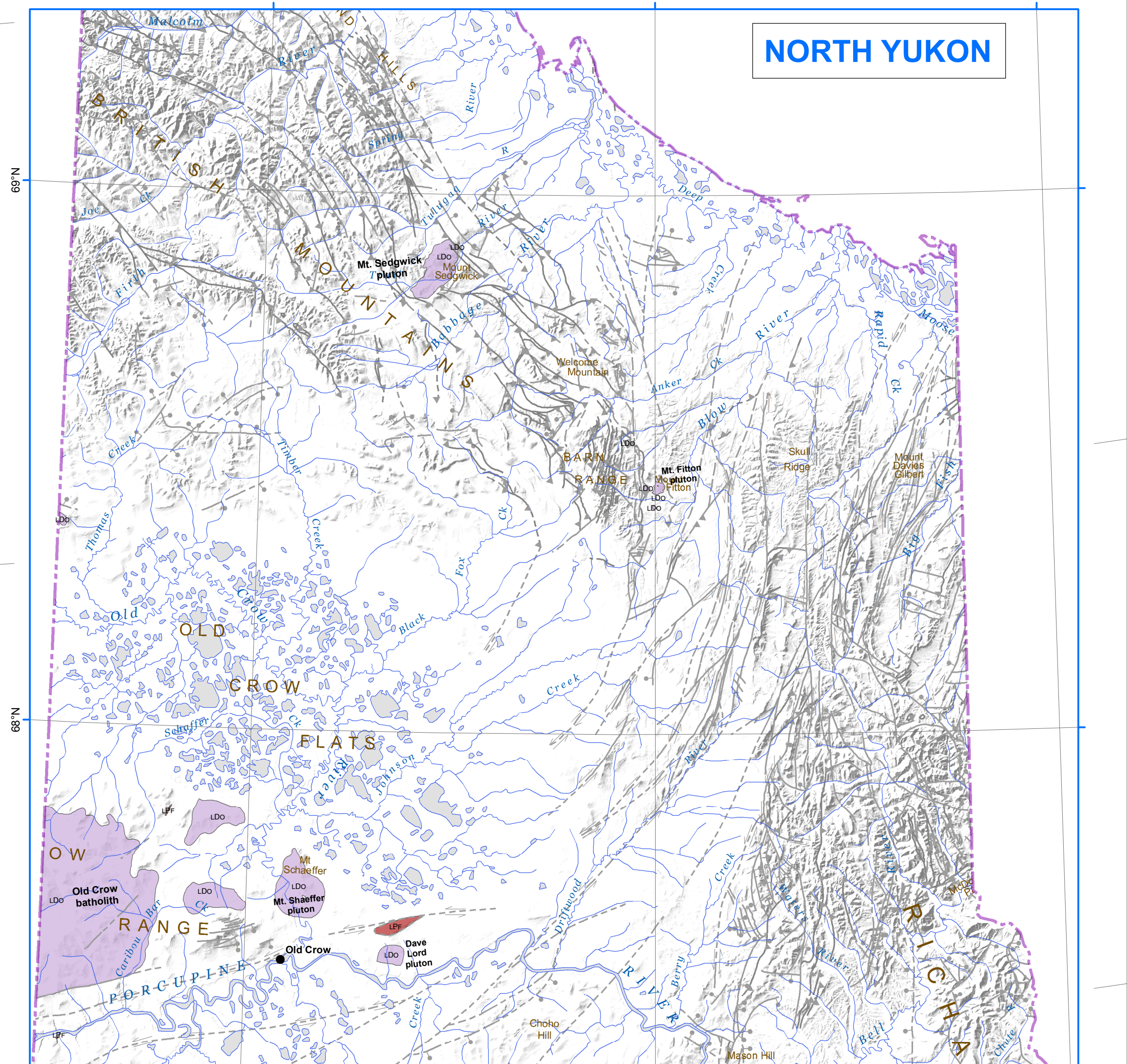
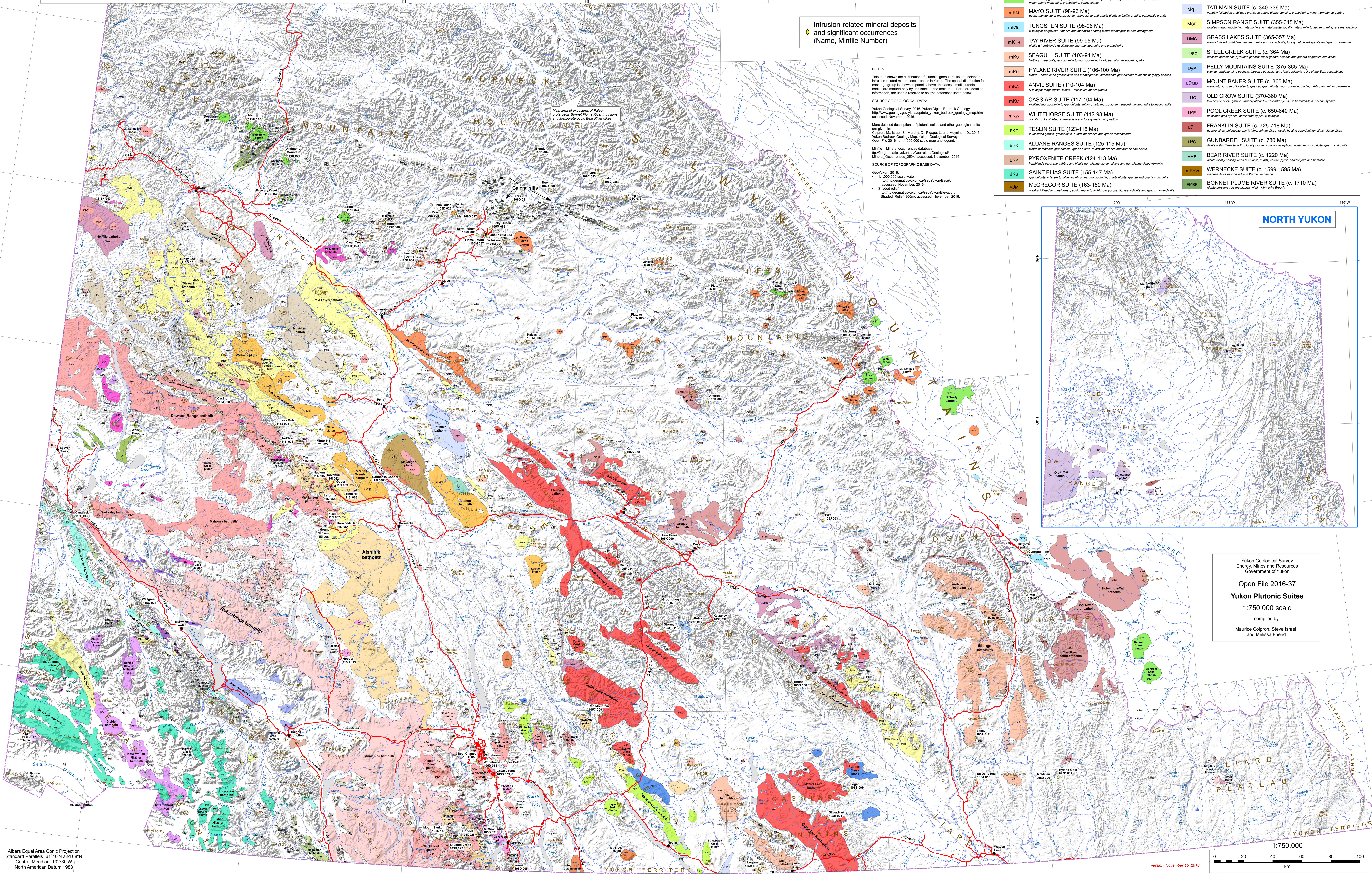


PLUTONIC SUITES	
MW	WRANGLE SUITE (16-6 Ma) hornblende and/or biotite granodiorite to porphyritic granodiorite, diorite and pyroxene gabbro & subvolcanic rocks
OT	TKOPE SUITE (34-23 Ma) biotite and hornblende granites, quartz monzonites, quartz diorites and gabbro-diorites
EBR	BLACK RIVER SUITE (49-47 Ma) peraluminous, K-feldspar-free biotite to biotite-muscovite monzonite to augite-gabbro
ES	SEWARD SUITE (52-41 Ma) iron to weakly alkalic, biotite-hornblende biotite and granodiorite; rarer granites and quartz diorite
EH	HAYDEN LAKE SUITE (48-45 Ma) hornblende & biotite diorite to quartz diorite; rare gabbro; garnet common as 1-10mm oysters
ET	TING SUITE (56-50 Ma) urbilite system; apatitic volcanic breccia with inclusions of quartz, volcanic rocks and sandstone
PR	RUBY RANGE SUITE (64-57 Ma) granodiorite, quartz monzonite, quartz diorite and biotite porphyries; locally pyroxene; biotite porphyry to granodiorite gabbro
LKq	UNDIVIDED GRANITIODS IN COAST MOUNTAINS granite rocks of intermediate composition and probably related plutonoids
Mp	UNDIVIDED MESOZOIC GRANITIODS poorly described granite rocks of uncertain age including diorite, quartz monzonite and monzonite
LKM	MCQUESTEN SUITE (67-64 Ma) locally porphyritic and K-feldspar megacrystic biotite-muscovite granite and quartz monzonite
LKP	PROSPECTOR MTN SUITE (72-68 Ma) quartz monzonite, granite, quartz monzonite and granodiorite to quartz diorite; rare gabbro-diorite; quartz-feldspar porphyry, granite
LKC	CASINO SUITE (79-74 Ma) hornblende-biotite biotite-muscovite granite, quartz diorite and quartz-feldspar porphyry
LKR	RANCHERIA SUITE (82-77 Ma) biotite-muscovite biotite-gabbro, biotite granodiorite, biotite monzonite
mKt	TOMBSTONE SUITE (94-90 Ma) dominated by granite, quartz, quartz monzonite, chlorite-quartz diorite, paucobiotite; minor quartz monzonite, granodiorite, quartz diorite
mKa	MAYO SUITE (98-93 Ma) quartz monzonite or monzonite, granodiorite and quartz diorite to biotite granite, porphyritic granite
mKtu	TUNGSTEN SUITE (98-96 Ma) K-feldspar porphyry; diorite and monzonite-bearing biotite monzonite and augite-gabbro
mKtr	TAY RIVER SUITE (99-95 Ma) biotite & hornblende biotite-muscovite granite and granodiorite
mKS	SEAGULL SUITE (103-94 Ma) biotite & muscovite augite-gabbro to monzonite; biotite granodiorite, biotite monzonite
mKh	HYLAND RIVER SUITE (106-100 Ma) biotite & hornblende granodiorite and monzonite; subordinate granodiorite to dioritic porphyry phases
mKa	ANVIL SUITE (110-104 Ma) K-feldspar megacrystic, biotite & muscovite monzonite
mKc	CASSIAR SUITE (117-104 Ma) calcic monzonite to granodiorite; minor quartz monzonite; reduced monzonite to augite-gabbro
mKw	WHITEHORSE SUITE (112-98 Ma) granite rock of basic, intermediate and weakly acidic composition
EKT	TESLIN SUITE (123-115 Ma) biotite monzonite, quartz diorite, quartz monzonite and quartz monodiorite
EKK	KLUANE RANGES SUITE (125-115 Ma) biotite hornblende granodiorite, quartz diorite, quartz monzonite and hornblende diorite
EKP	PYROXENITE CREEK (124-113 Ma) granodiorite to biotite monzonite; biotite quartz monzonite, quartz diorite, granite and quartz monzonite
JKS	SAINT ELIAS SUITE (155-147 Ma) hornblende pyroxene gabbro and coarse hornblende diorite; diorite and hornblende chlorite-quartz
MJm	MCGREGOR SUITE (163-160 Ma) weakly alkalic to unalkalic; augite-gabbro to K-feldspar porphyritic, granodiorite and quartz monzonite
MJB	BRYDE SUITE (c. 172-168 Ma) monzonite to granite; monzonite; quartz monzonite; hornblende; granite to granodiorite; rare pyroxene gabbro; weakly muscovite biotite granite; strongly undeveloped augite phase
EJL	LONG LAKE SUITE (192-178 Ma) granodiorite, biotite monzonite & granite, strongly undeveloped pyroxene and albite phases
LEJm	MINTO SUITE (c. 204-194 Ma) mostly intermediate to basic granitoid rocks but locally grading to syenite or hornblende gabbro
LSD	DOGHEAD SUITE (c. 205 Ma) biotite monzonite
LTD	MOUNT BEATON SUITE (c. 217 Ma) unfoliated hornblende diorite to hornblende-biotite quartz diorite; locally abundant gabbro
LTDs	STIKINE SUITE (c. 216-206 Ma) biotite gabbro; hornblende; hornblende granite to granodiorite; foliated hornblende quartz diorite to diorite
LTK	KLUANE ULTRAMAFIC SUITE (c. 232-228 Ma) mafic to ultramafic ultrabasic rocks including biotite gabbro, augite gabbro, pyroxene gabbro and granitoid sills
TKS	SNAG CREEK SUITE (232-226 Ma) hornblende diorite and gabbro sills; massive chlorite and locally sericitized granitoid sills
TKd	GALENA SUITE (240-230 Ma) hornblende diorite and gabbro sills; massive chlorite and locally sericitized granitoid sills
TKsd	JOE MOUNTAIN SUITE (c. 240 Ma) coarse-grained biotite-gabbro; hornblende gabbro and diorite
TKSd	CACHE CREEK SUITE (c. 245 Ma) strongly foliated unfoliated granite to quartz diorite; coarse-grained, coarse-grained, argillite
PS	SULPHUR CREEK SUITE (264-252 Ma) variably foliated augite granite, megacrystic; homogeneous granite; granodiorite and quartz monzonite
CP	ICEFIELD RANGES SUITE (308-285 Ma) quartz monzonite-quartz diorite-diorite, vein-intersected by augite-gabbro and quartz syenite
PKK	KELLY SUITE (335-310 Ma) strongly foliated; equigranular hornblende & biotite tonalite; hornblende diorite to granodiorite
MQT	TATLAIN SUITE (c. 340-336 Ma) strongly foliated unfoliated granite to quartz diorite; minor hornblende gabbro
MSR	SIMPSON RANGE SUITE (355-345 Ma) foliated metagabbro, metabasite and metagabbro; locally unfoliated augite granite; rare metagabbro
DMG	GRASS LAKES SUITE (365-357 Ma) mainly biotite; K-feldspar augite granite and granodiorite; locally unfoliated granite and quartz monzonite
LDSC	STEEL CREEK SUITE (c. 364 Ma) massive hornblende-pyroxene gabbro, minor gabbro-diorite and gabbro-pyroxene intrusion
DYP	PELLY MOUNTAINS SUITE (375-365 Ma) syenite, gabbro to mafic; massive equivalents to basic volcanic rocks of the Eum suture zone
LDMB	MOUNT BAKER SUITE (c. 365 Ma) metagabbro, metabasite and metagabbro; quartz monzonite, monzonite, quartz monzonite, gabbro and minor pyroxene
LDO	OLD CROW SUITE (370-360 Ma) augite-biotite granite, variably altered; leucocratic biotite to hornblende metagabbro
LPp	POOL CREEK SUITE (c. 650-640 Ma) unfoliated pink granite; dominated by pink K-feldspar
LPf	FRANKLIN SUITE (c. 725-718 Ma) gabbro diorite; porphyritic pyroxene amphibole diorite; locally hosting abundant xenoliths; diorite dikes
LPg	GUNBARREL SUITE (c. 780 Ma) massive alkalic basaltic flow; locally diorite to pyroxene syenite; hosts veins of vesicle, quartz and pyrite
MEB	BEAR RIVER SUITE (c. 1220 Ma) diorite locally hosting veins of quartz, biotite, chlorite, zircon, chlorite and hematite
m2gn	WERNECKE SUITE (c. 1599-1595 Ma) diorite sills associated with Wernecke Breccia
EPBp	BONNET PLUME RIVER SUITE (c. 1710 Ma) diorite preserved as megacrysts within Wernecke Breccia

Intrusion-related mineral deposits and significant occurrences (Name, Minfile Number)

NOTES
This map shows the distribution of plutonic igneous rocks and selected intrusion-related mineral occurrences in Yukon. The spatial distribution for each age group is shown in panels above. In places, small plutonic bodies are marked only by unit labels on the main map. For more detailed information, the user is referred to source databases listed below.
SOURCE OF GEOLOGICAL DATA:
Yukon Geological Survey, 2016. Yukon Digital Bedrock Geology
http://www.geology.yukon.ca/geopdata_yukon_bedrock_geology_map.html, accessed: November, 2016.
More detailed descriptions of plutonic suites and other geological units are given in:
Colpron, M., Israel, S., Murphy, D., Pigeau, L. and Mounihan, D., 2016. Yukon Bedrock Geology Map. Yukon Geological Survey, Open File 2016-37, 1:1,000,000 scale map and legend.
Minfile - Mineral Occurrences Database:
http://geomatics.yukon.ca/GeoYukon/Minfile/Minfile_Mineral_Occurrences_250k/, accessed: November, 2016.
SOURCE OF TOPOGRAPHIC BASE DATA:
GeoYukon, 2016.
• 1:1,000,000 scale water -
<http://ftp.geomatics.yukon.ca/GeoYukon/Water/>, accessed: November, 2016.
• Shaded relief -
http://ftp.geomatics.yukon.ca/GeoYukon/Shaded/Shaded_Relief_300m/, accessed: November, 2016.



Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon
Open File 2016-37
Yukon Plutonic Suites
1:750,000 scale
compiled by
Maurice Colpron, Steve Israel
and Melissa Friend