CDR

ASSEMBLAGE/SUITE: **Road River - Richardson**

Cambrian to Devonian

CDR black graptolitic shale, limestone and minor chert with mappable subdivisions (1) through (5) in Richardson Mtns.; correlations with Selwyn Mtns. include: lower (2) with COR, upper (2) with OSR1, (4) with OSR2 and (5) with lower DME2 (Road River)

Middle Cambrian

CDR1 calcareous black shale and limestone (CDR0 of Norris)

Upper Cambrian to Lower Silurian

CDR2 lower: pale yellow to grey weathering, thin- to medium-bedded, shaly limestone with minor shale interbeds; minor chert and intraclast conglomerate; upper: black chert, graptolitic shale, silicified limestone and minor intraclast conglomerate (CDR1 of Norris)

CDR3 sharpstone breccia, heterogeneous, commonly with limestone and chert clasts; turbiditic (CDR2 of Norris)

Middle and Upper Silurian

CDR4 interstratified, yellowish to orange weathering argillite and yellowish to grey weathering shaly limestone and dolomite; minor black, calcareous shale, intraclast conglomerate and breccia (CDR3 of Norris)

Upper Silurian to lower Middle Devonian

CDR5 graptolitic, black shale and shaly limestone; minor limestone, intraclast conglomerates and breccia (CDR4 of Norris)

Cambrian to Devonian

CDR6 black and grey chert, locally bioturbated; black and blue-black, siliceous, graptolitic shale; minor limestone; includes conformably to unconformably overlying early Devonian black silty shale, sandstone and chert-quartzite pebble conglomerate

uDI
ASSEMBLAGE/SUITE: **Imperial**
Upper Devonian

uDI rusty-weathering dark grey shale and siltstone generally in lower part of succession overlain by dark grey fine grained lithic sandstone and siltstone; siltstone and sandstone commonly as sharp-based graded beds (Imperial)

uDPF
ASSEMBLAGE/SUITE: **Ford Lake**
Upper Devonian to Permian

uDPF generally fine to coarse grained clastic succession equivalent to Canol, Imperial and(?) Tuttle assemblages (1) or including these and younger formations undivided (2) and (3)

Upper Devonian and Carboniferous

uDPF1 dark grey to black, silty pyritic shale and siltstone with subordinate sandstone, conglomerate and silty limestone (Ford Lake Shale)

uDPF2 shale, siltstone, limestone, sandstone, conglomerate, chert undivided (Canol, Ford Lake, Hart River, and Ettrain undivided)

Carboniferous and Permian

uDPF3 shale, siltstone, limestone, sandstone, conglomerate, chert undivided (Ford Lake, Hart River, Ettrain, and Jungle Creek undivided)

uDC
ASSEMBLAGE/SUITE: **Canol**
Upper Devonian

uDC dark grey to black non-calcareous, soft to very hard shale with scattered, orange-weathering, carbonate nodules and minor chert (Canol and minor Hare Indian)

lmCS
ASSEMBLAGE/SUITE: **Slats Creek**
Lower and Middle Cambrian

lmCS siltstone, sandstone and shale (1) and partly(?) correlative clastic rocks (2)

lmCS1 rusty brown weathering, turbiditic, quartz sandstone with minor shale and siltstone; pale red weathering siltstone, sandstone, quartzite pebble and cobble conglomerate and limestone; maroon with green argillite with minor quartzite and limestone (Slats Creek)

Lower Cambrian

lmCS2 grey, green and red argillite with laminated quartzite and siltstone; light brown quartzite at base; locally with grey-green chloritic shale and siltstone interbeds; trace fossil "Oldhamia" trilobites and archaeocyatha in basal conglomerate unit (Adams Argillite)

lCl

ASSEMBLAGE/SUITE: **lltyd**

Lower Cambrian

lCl limestone assemblage (1) (2), (3); also includes carbonate strata of uncertain Proterozoic to Cambrian age (4)

lCl1 fine crystalline, dark grey limestone; light grey, medium crystalline biohermal dolomite (lltyd)

Lower Cambrian (to Lower Ordovician?)

lCl2 fine-grained, yellow brown limestone, limy conglomerate-breccia; locally chert and chalcedony replacements; uncommon archaeocyathid and trilobite fossils (Hillard)

Lower Cambrian

lCl3 massive, light grey limestone, locally dolomitic; in places oolitic or contains dark grey chert; includes secondary silicification and chalcedony vugs (Funnel Creek)

Lower Cambrian and(?) older

lCl4 light grey, medium bedded dolostone; massive, pale grey limestone

TrS
ASSEMBLAGE/SUITE: **Shublik**
Triassic

TrS commonly bioturbated calcareous shale, siltstone and sandstone; silty bioclastic limestone; local hummocky cross stratification (Shublik)

JKH
ASSEMBLAGE/SUITE: **Husky**
Jurassic and Lower Cretaceous

JKH shale and siltstone (1) and (3) and laterally equivalent coarser grained siltstone and sandstone (2) and (4) and undivided clastic strata (5) deposited on a marine shelf (equivalent to lower part of "Parsons continental margin clastics" tectonic assem. of Wheeler and McFeely (1991))

JKH1 dark grey siltstone and shale (Kingak (upper), may include Porcupine River and Husky and Bug Creek Gp.)

JKH2 siltstone and light grey fine to very fine grained sandstone; marine and nonmarine (Porcupine River)

JKH3 dark grey shale, siltstone and ironstone; marine (Husky)

JKH4 light grey glauconitic conglomeratic sandstone, shale and siltstone; marine (North Branch)

JKH5 shale, siltstone, sandstone; minor conglomerate; limonitic nodules; marine and nonmarine (undivided Jurassic and Lower Cretaceous clastics)

IKM
ASSEMBLAGE/SUITE: **Mount Goodenough**
Lower Cretaceous

IKM shale, siltstone, and sandstone (1) to (6) comprising alternating fine and coarse clastic units (equivalent to upper part of "Parsons continental margin clastics" tectonic assem. of Wheeler and McFeely (1991))

IKM1 dominated by fine grained quartz arenite with hummocky cross-stratification, swaley bedding, plane lamination, ripple lamination and bioturbation; members and interbeds of shale; marine inner shelf to upper shoreface (Martin Creek ; may include McGuire)

IKM2 shale with thin beds of siltstone and very fine grained argillaceous bioturbated sandstone; ironstone concretions in lower beds; marine (McGuire)

IKM3 shale, siltstone, sandstone and coal; marine and non-marine

IKM4 basal interbedded sandstone, siltstone, shale and locally conglomerate, with bioturbation, lamination and cross-stratification; upper beds are bioturbated dark grey shale, interbedded with thin siltstone and silty sandstone; marine (Mount Goodenough)

IKM5 dark grey to black argillite, siltstone and sandstone; turbiditic (Biederman Argillite)

IKM6 interbedded units of sandstone and shale; hummocky cross stratification and plane lamination; marine (Rat River)

KS
ASSEMBLAGE/SUITE: **Sharp Mountain**
Lower Cretaceous

KS fine and coarse clastic assemblage, mostly marine (1) to (7) deposited in foredeep of Cordilleran orogen (equivalent to "Blairmore foredeep clastic wedge" tectonic assem. of Wheeler and McFeely (1991))

KS1 basal interbedded siltstone and silty shale with concretionary horizons overlain by interbedded glauconitic fine grained sandstone, siltstone and shale; marine (Martin House)

KS2 thin bedded dark grey to brown or black shale and interbeds of siltstone; concretions and clay (bentonite?) beds; locally basal beds are silty or sandy to conglomeratic; marine (Arctic Red)

KS3 massive sandstone and pebble conglomerate; rare ripple cross-lamination in sandstone; shale-dominant units with thin beds of siltstone and very fine grained sandstone; local mud-supported conglomerate; marine sediment gravity flow deposits (Sharp Mountain Conglomerate)

KS4 sandstone, conglomerate and shale; flyschoid

KS5 concretionary dark grey and rusty weathering shale, gypsiferous in part; greenish grey sandstone, siltstone and shale (Fort St. John Gp. including Garbutt, Scatter, Sikanni, Sully, and Lepine)

KS6 dark grey weathering massive to poorly bedded chert sandstone and chert pebble conglomerate; fluvial(?) (Big Timber)

KS7 basal member of shale with thin interbeds of sandstone and pebbly sandstone; upper member of generally massive sandstone and conglomerate with normal and some inverse grading; conglomerate clasts to boulder size; marine sediment gravity flow deposits (Kathul Greywacke)