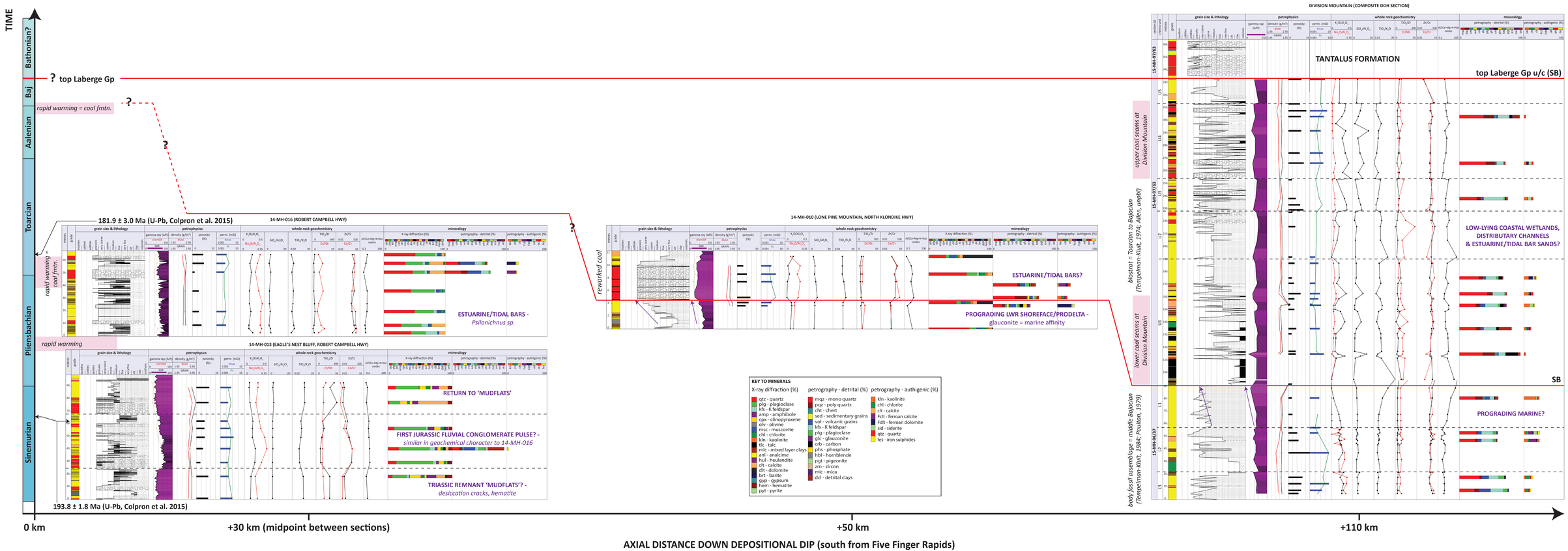
TIME
Bathonian?
Baj
Aalenian
Toarcian
Pliensbachian
Sinemurian
? top Laberge Gp
rapid warming = coal fmtn.
181.9 ± 3.0 Ma (U-Pb, Colpron et al. 2015)
14-MH-016 (ROBERT CAMPBELL HWY)
rapid warming coal fmtn.
ESTUARINE/TIDAL BARS - Psilonichnus sp.
rapid warming
14-MH-013 (EAGLE'S NEST BLUFF, ROBERT CAMPBELL HWY)
RETURN TO 'MUDFLATS'
FIRST JURASSIC FLUVIAL CONGLOMERATE PULSE? - similar in geochemical character to 14-MH-016
TRIASSIC REMNANT 'MUDFLATS'? - desiccation cracks, hematite
193.8 ± 1.8 Ma (U-Pb, Colpron et al. 2015)
14-MH-010 (LONE PINE MOUNTAIN, NORTH KLONDIKE HWY)
reworked coal
ESTUARINE/TIDAL BARS?
PROGRADING LWR SHOREFACE/PRODELTA - glauconite = marine affinity
KEY TO MINERALS
X-ray diffraction (%)
qtz - quartz
plg - plagioclase
kfs - K feldspar
amp - amphibole
cpx - clinopyroxene
olv - olivine
msc - muscovite
chl - chlorite
kln - kaolinite
tlc - talc
mlc - mixed layer clays
anl - analcime
hul - heulandite
clt - calcite
dlt - dolomite
brt - barite
gyp - gypsum
hem - hematite
pyt - pyrite
petrography - detrital (%)
mqz - mono quartz
pqz - poly quartz
cht - chert
sed - sedimentary grains
vol - volcanic grains
kfs - K feldspar
plg - plagioclase
glc - glauconite
crb - carbon
phs - phosphate
hbl - hornblende
pgt - pigeonite
zrn - zircon
mic - mica
dcl - detrital clays
petrography - authigenic (%)
kln - kaolinite
chl - chlorite
clt - calcite
Fclt - ferroan calcite
Fdlt - ferroan dolomite
sid - siderite
qtz - quartz
fes - iron sulphides
DIVISION MOUNTAIN (COMPOSITE DDH SECTION)
TANTALUS FORMATION
top Laberge Gp u/c (SB)
upper coal seams at Division Mountain
biostrat = Toarcian to Bajocian (Tempelman-Kluit, 1974; Allen, unpbl)
lower coal seams at Division Mountain
LOW-LYING COASTAL WETLANDS, DISTRIBUTARY CHANNELS & ESTUARINE/TIDAL BAR SANDS?
SB
body fossil assemblage = middle Bajocian (Tempelman-Kluit, 1984; Poulton, 1979)
PROGRADING MARINE?
0 km
+30 km (midpoint between sections)
+50 km
+110 km
AXIAL DISTANCE DOWN DEPOSITIONAL DIP (south from Five Finger Rapids)