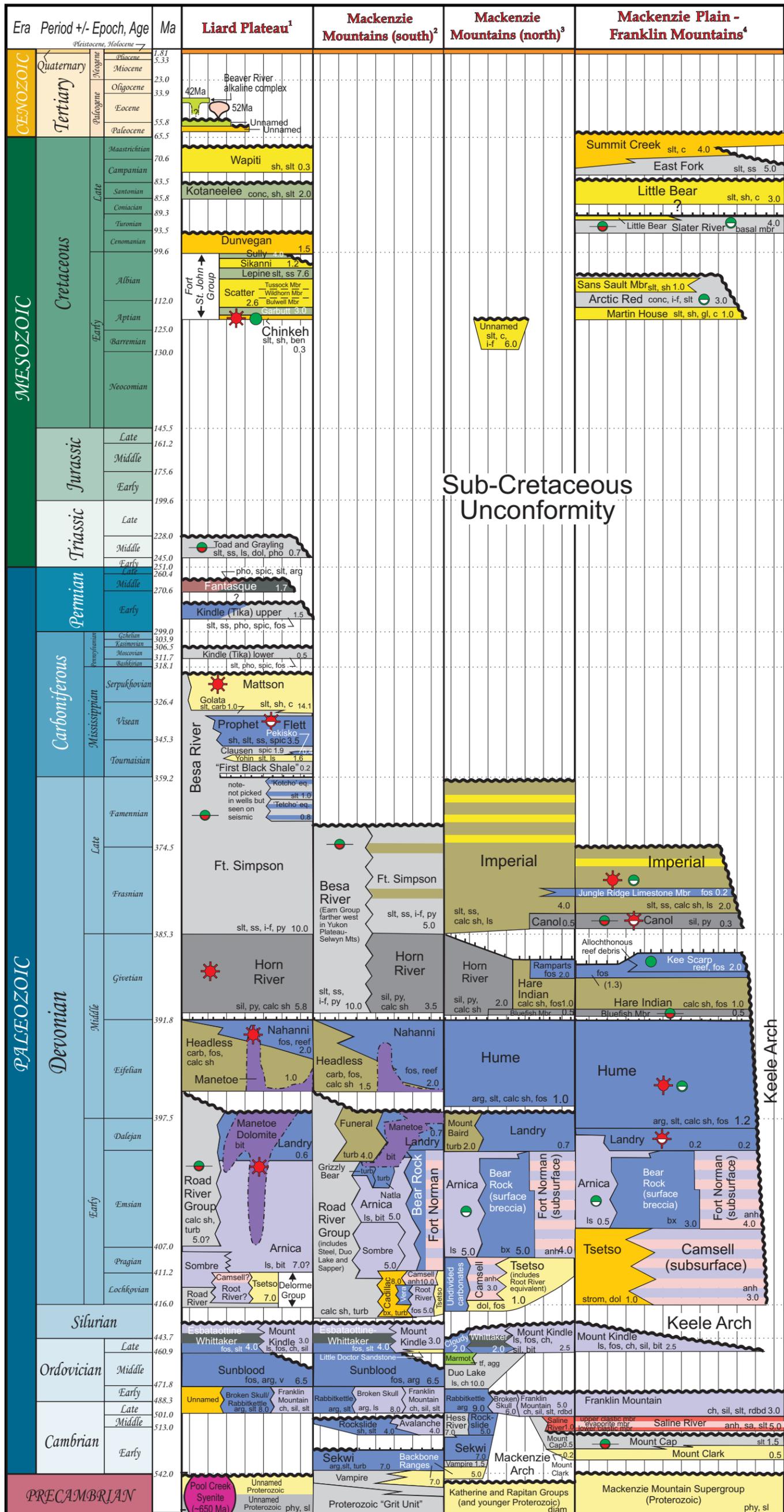


Table of Formations - Mackenzie Arc



Time scale ages after Gradstein et al., 2004. Geological Survey of Canada (GSC) Miscellaneous Report 86. Error ranges are not shown; Time scale is not linear.

¹ Dixon, J., 1999. GSC Bulletin 536; Dixon, J., 1997. Bull. CPG, Vol. 45, No. 2; Morrow, D.W., 2001. pers. comm.; Morrow, D.W. et al., 1990. GSC Bulletin 400; Morrow, D.W. and Cook, D.G., 1987. GSC Memoir 412; National Energy Board (NEB), 1996. A natural gas resource assessment of southeast Yukon and Northwest Territories, Canada; Richards, B.C. et al., 1993. GSC Geology of Canada No. 5, Carboniferous, Sub-chapter 4E also GSA, The Geology of North America, v. D-1.

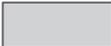
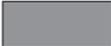
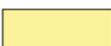
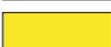
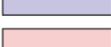
² Dixon, J., 1999. GSC Bulletin 536; Meijer Drees, N.C., 1993. GSC Bulletin 393; Janicki, E., 2002. pers. comm.; Morrow, D.W., 2001. pers. comm.; Richards, B.C. et al., 1993. GSC Geology of Canada No. 5, Carboniferous, Sub-chapter 4E also GSA, The Geology of North America, v. D-1; Gabrielse, H. et al., 1973. GSC Memoir 366; Gordley, S.P. and Anderson, R.G., 1993. GSC Memoir 428.

³ Dixon, J., 1999. GSC Bulletin 536; Janicki, E., 2002. pers. comm.; Meijer Drees, N.C., 1993. GSC Bulletin 393; Morrow, D.W., 2001. pers. comm.; Morrow, D.W., 1991. GSC Bulletin 413; Pugh, D.C., 1983. GSC Memoir 401; Attkin, J.D. et al., 1973. GSC Paper 73-9; Gordley, S.P. and Anderson, R.G., 1993. GSC Memoir 428.

⁴ Dixon, J., 1999. GSC Bulletin 536; Dixon, J. and Stasiuk, L.D., 1998. Bull. Canadian Petroleum Geology, Vol. 46, No. 3; Meijer Drees, N.C., 1993. GSC Bulletin 393; Morrow, D.W., 1991. GSC Bulletin 413; Pugh, D.C., 1983. GSC Memoir 401; Sweet, A.R. et al., 1989. GSC Current Research, Part G, Paper 89-1G.

Figure 15. (Morrow, Jones and Dixon)

Lithologies

	Shale (gray, craton-derived)
	Shale (black, organic-rich, siliceous)
	Shale, siltstone (green to buff, craton-derived)
	Chert (shallow water)
	Chert (deep water)
	Red beds (silty, argillaceous carbonates and siltstones)
	Sandstone (craton-derived)
	Sandstone, siltstone (foredeep)
	Shale (foredeep)
	Conglomerate, sandstone and/or orange silty carbonates
	Conglomeratic mudstone, diamictite, glacial drift, rift clastics
	Limestone
	Dolostone
	Salt/anhydrite (evaporite)
	Quartz monzonite, granodiorite, granite
	Syenite, nephelinite, basanite
	Metamorphic (schist, paragneiss)
	Volcanogenic clastics
	Tholeiitic volcanics
	Alkaline volcanics
	Gabbro, diabase, diorite
	Dolomite (diagenetic)
	Sand/gravel

Contacts

Conformable	
Unconformity/ Nonconformity	
Disconformity/ Condensed Section	
Depositional hiatus/no record	

Other Conventions

Thickness (hundreds of metres) - 9.8
Nonmarine - ||

Hydrocarbons

	Gas discovery
	Gas show
	Oil discovery
	Oil show
	Source rock

Lithologic Abbreviations

ss - sandstone	ch - chert	ben - bentonite
slt - siltstone	calc sh - calcareous shale	strom - stromatolitic
sh - shale	lig - lignite	turb - turbidites
mdst - mudstone	c - coal	bx - breccia
cg - conglomerate	bit - bitumen	conc - concretionary
diam - diamictite	i-f - iron formation	fos - fossiliferous
rdbd - red beds	sil - siliceous	sl - slate
carb - carbonate	gyps - gypsum	phy - phyllite
ls - limestone	gl - glauconite	qte - quartzite
dol - dolostone	pho - phosphate	gn - gneiss
anh - anhydrite	py - pyrite	v - volcanics
sa - salt	reef- reefal	tf - tuff
arg - argillite, argillaceous	spic - spicules	agg - agglomerate

Figure 15. (Morrow, Jones and Dixon)