

CORRELATION CHART OF UPPERMOST JURASSIC AND CRETACEOUS FORMATIONS OF NORTHWESTERN CANADA

SERIES	STANDARD STAGES	FOSSIL ZONES OF THE WESTERN INTERIOR OF CANADA (Jelezky, 1960)	EASTERN FLANK OF RICHARDSON MOUNTAINS BETWEEN DONNA RIVER AND STONY CREEK (This report)	VITREKWA RIVER (This report)	LOWER PEEL RIVER BETWEEN VITREKWA AND ROAD RIVERS (this report)	PORCUPINE RIVER BETWEEN EAST PORCUPINE AND DRIFTWOOD RIVERS, YUKON (This report)	ARCTIC COAST BETWEEN MACKENZIE RIVER AND DARNLEY BAY AREA (MacKay, unpublished, and this report)	MACKENZIE AND UPPER PEEL RIVERS (composite section; mainly after Hume, 1954)	SVERDRUP BASIN, QUEEN ELIZABETH ARCHIPELAGO (composite section after Heywood, 1957, Fortier, 1957 and unpublished information)	NORTHERN ALASKA (Gryc et al., 1951; Inlay and Reeside, 1954)	
UPPER CRETACEOUS	LOWER CAMPANIAN	Scaphites hippocrepis	Unknown, probably present locally, at least in part				Unknown	Unknown		Sentinel Hill member 1,100'-2,340'±	
		Scaphites (Desmoscapites) spp.									
	SANTONIAN	Inoceramus of the I. cardisoides - lobatus - strenuipis species group	Zone H					Grey sandstones and siltstones. Thickness unknown	Unknown		?
		Inoceramus cordiformis	Scaphites (Cioscapites) montanensis								
	CONIACIAN	Inoceramus involutus (=I. umbonatus) and variants (in middle part) and Scaphites ventricosus s. str. (throughout)									
		Scaphites preventricosus and Inoceramus deformis									
	TURONIAN	Inoceramus lamarchi and Prionocyclus s. lato	Ostrea lugubris and (?) Actinocamax manitobensis	Bluish weathering shale member				Upper Cretaceous sandstone division 4,000'± (est.)		East Fork formation Grey shales 780'-850'	Kanguk formation and unnamed equivalent rocks 1,000'±
		Prionocyclus (Collignonicyclus) woollgari s. lato		500'-550' (est.)	Unknown	Unknown; probably absent	Mostly coarse, quartzose, pepper and salt coloured sandstone				
		Watinoceras and Inoceramus labiatus	Watinoceras reesidei and Inoceramus labiatus	Orange weathering shale member							
		Baculites (Sciponoceras) cf. gracile and Prionocyclus (Collignonicyclus) n. sp.		60'-65'±						Little Bear formation Sandstones and shales with coal 620'-780'	
	CENOMANIAN	Dunveganoceras cf. hagei	Dunveganoceras cf. parvum	Dark grey shale member 350'-400' (est.)				Unknown, probably present, at least in part		Slater River formation Dark grey to black shales; some siltstones and sandstones 200'-2,150'	
		Dunveganoceras albertense	Dunveganoceras cf. conditium								
Inoceramus dunveganensis		Inoceramus rutherfordi									
Acanthoceras athabascense											
LOWER CRETACEOUS	ALBIAN	Neogastropilites mclearnii	Overlap and erosional gap increasing northward				Contact not seen	Erosional gap assumed	Absent locally?	Hassel formation 1,800'±	
		Neogastropilites americanus									
		Neogastropilites cornutus									
		Neogastropilites selwini									
	APTIAN	"Placentoceras" liardense	Gastropilites zone	Albian shale-siltstone division 315'-7800'±				Dark grey, siliceous shale; buff sandstone members in upper part; 1,200'-1,400'	Erosional contact?	Shale division	Age of upper beds uncertain
		Lemuroceras or Beudanticeras affine	Lemuroceras mcconnelli								
		Lemuroceras irenense	Lemuroceras cf. indicum								
		Cleoniceras cf. subbaylei	Sonneratia cf. kitchini								
	BARREMIAN	unknown	Zone E	Overlap and erosional gap increasing northward			Albian shale - siltstone division 800'-1,000'±	Albian shale - siltstone division 800'-1,000'±	Grey sandstones and siltstones (base not seen) 100'±	Grey shales and siltstones 1,000'±	Sandstone division 50'-600'± (may be Upper Jurassic?)
		Aucellina caucasicca and var. Aucellina apicatis and var. Aucellina cf. remondi	Crioceras (Hoplocrioceras) n. sp. aff. laeviusculum and Acrotretus pseudopanderi								
		Crioceras cf. latum	Shasticrioceras? sp. ind.								
		Zone B									
HAUTERIVIAN	Simbirskites (Simbirskites) cf. kleini	Zone A	Overlap and erosional gap increasing southward				Upper sandstone division 410'-900'±	Upper sandstone division 550'-600' (est)	Erosional gap assumed	Shales and sandstones. Thickness unknown	
	Marine rocks unknown, probably absent	Upper member 500'± (est.)									
	Buchia crassa and Buchia n. sp. aff. crassa	Middle member 1,500'± (est.)									
	Polyptychites (Polyptychites) cf. keyserlingi and Buchia cf. keyserlingi	Lower member 1,000'-1,200'									
VALANGINIAN	Polyptychites (Euryptychites) n. sp. aff. P. globulosus and Polyptychites anabarensis?	White sandstone member 150' - 170'	Overlap and erosional gap				Upper shale-siltstone division 3,000'±	Upper shale-siltstone division 3,000'±	Erosional interval	Isachsen sandstone 3,000'±	
	Craspedites (Tollia) cf. payeri and Buchia volgensis	Lower member 1,000'-1,200'									
	Buchia okensis and Craspedites (Subcraspedites) cf. suprasubditus	Upper member 1,000'-1,200'									
	Upper member 130' - 140'	Lower member (Upper part) 50' (approx.)									
BERIASIAN	Buchia fischeri and Buchia trigonoides	Lower member (Lower part) 580' - 610'	Overlap and erosional gap				Upper sandstone division 500'-540'±	Upper sandstone division 500'-540'±	Unknown, Probably absent	Lowermost beds with Buchia crassa, B. cf. bulloides etc.	
	Buchia piochii	580' - 610'									
UPPER JURASSIC	UPPER TITHONIAN	Buchia mosquensis	Rocks like those of lower member								
			460' - 470'								