



To accompany GSC Paper 67-27, Part II by J. Wm. Kerr

ORDOVICIAN					FRANKLINIAN MIOGEOSYNCLINE										CENTRAL STABLE REGION				
					NORTHWESTERN (COMPOSITE)			CENTRAL (COMPOSITE)			SOUTHEASTERN (COMPOSITE)			BACHE PEN. — E. IRENE BAY (Troelsen, Christie, Kerr)					
					FORMATION (AND GROUP)	LITHOLOGY	THICKNESS (FEET)	FORMATION (AND GROUP)	LITHOLOGY	THICKNESS (FEET)	FORMATION (AND GROUP)	LITHOLOGY	THICKNESS (FEET)	FORMATION	LITHOLOGY	THICKNESS (FEET)			
SILURIAN					LLANDOVERIAN		Cape Rawson Group Facies change Cape Phillips	Siltstone, sandstone, conglomerate		Cape Phillips Facies change Allen Bay		Allen Bay		Allen Bay	Dolomite, minor limestone, bluff-forming		<div></div>	<div>?</div>	<div></div>
UPPER	CINCINNATIAN	RICHMONDIAN		ASHGILLIAN	Irene Bay	Limestone, shaly interlayers, dark grey, cherty, sparse fossils		675—?	Irene Bay		Limestone, shaly, weathers greenish; recessive, fossiliferous		140—1050		Irene Bay	Limestone, shaly, weathers greenish; recessive, fossiliferous			
		MAYSVILLIAN				Thumb Mountain	Limestone, dark grey, bluff-forming,	?—1800		Thumb Mountain	Limestone, partly dolomite, dark grey-brown, thick-bedded, slightly rusty; weathers medium grey, bluff-forming	850—2300	Thumb Mountain	Limestone, partly dolomite, dark grey-brown, thick-bedded, slightly rusty; weathers medium grey, bluff-forming		1100—1650			
		MOHAWKIAN	EDENIAN		CARADOCIAN		Bay Fiord	Limestone, shaly and sandy, dark grey to light grey; recessive	1450—2000 +		Bay Fiord	Limestone, silty and sandy, and shaly, dolomite in southern sections, anhydrite common, recessive		780—1800	Bay Fiord	Limestone, thin-bedded, silty, sandy and shaly, lower part commonly anhydritic, recessive			
	BARNEVELD		LLANDEILLIAN																
	WILDERNESS																		
	PORTERFIELD																		
	ASHBY			LLANVIRNIAN															
	MARMOR																		
	WHITEROCK																		
	LOWER	CANADIAN	ARENIGIAN		Eleanor River	Limestone, shaly and silty, thick-bedded, bluff-forming	?—775	Eleanor River	Limestone, medium grey, buff-weathering, thick-bedded, bluff-forming,	775—2000 +	Eleanor River	Limestone, medium grey, buff-weathering, thick-bedded, resistant bluff	700—2600	Eleanor River	Limestone, dolomite, bioclastic limestone, intraformational conglomerate	500 +			
Disconformity Erosion or non-deposition			Baumann Fiord	C gypsum-anhydrite, white B limestone, resistant A gypsum-anhydrite, white		0—2560	Baumann Fiord		C gypsum-anhydrite, white B limestone, resistant A gypsum-anhydrite, white	100—970		Baumann Fiord	C gypsum-anhydrite B limestone, A gypsum-anhydrite		650				
TREMADOCIAN				Copes Bay	Limestone, shaly and sandy, sandy dolomite, no gypsum	2825		Copes Bay	Limestone shaly and silty, minor gypsum, flat-pebble conglomerate, mud cracks, ripple marks,	2350 +	Copes Bay		Limestone, silty and shaly, often gypsiferous, flat-pebble conglomerate common	1800—4800	Map-unit 6 Cape Clay Cass Fiord	Limestone, quartz sand-stone, recessive limestone, thin-bedded, anhydrite nodules, bluff Limestone, thin-bedded, flat-pebble conglomerate, shaly; recessive	220—250 1000—1600		
CAMBRIAN					UPPER				Disconformity Erosion or non-deposition										

Table I. Correlation of Ordovician rock units of central and eastern Ellesmere Island. The equivalence of North American and European time units as shown on the left is after Fisher (1962), Whittington and Williams (1964), and is that used by Norford et al. (in press).

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