STANDARDS FOR GEOLOGICAL TIME

TIME: EON	TIME: ERA	TIME: PERIOD	TIME-STRATIGRAPHIC: SERIES	TIME-STRATIGRAPHIC: STAGE	TIME-ROCK *M.Y.
PHANEROZOIC	CENOZOIC	QUATERNARY		RECENT	
				PLEISTOCENE	1.5-2
		TERTIARY	NEOGENE	PLIOCENE	7
				MIOCENE	26
			PALEOGENE	OLIGOCENE	37-38
				EOCENE	53-54
				PALEOCENE	65
	MESOZOIC	CRETACEOUS	UPPER	MAESTRICHTIAN (SENONIAN)	70
				CAMPANIAN	76
				SANTONIAN	82
				CONIACIAN	88
				TURONIAN	94
				CENOMANIAN	100
			LOWER	ALBIAN	106
				APTIAN	112
				BARREMIAN (NEOCOMIAN)	118
				HAUTERIVIAN	124
				VALANGINIAN	130
				BERRIASIAN	136
		JURASSIC	UPPER	UPPER TITHONIAN / UPPER VOLGIAN	141
				PORTLANDIAN / LOWER VOLGIAN	146
				KIMMERIDGIAN	151
				OXFORDIAN	157
			MIDDLE	CALLOVIAN	162
				BATHONIAN	167
				BAJOCIAN	172
			LOWER	TOARCIAN	178
				PLIENSBACHIAN	183
				SINEMURIAN	188
				HETTANGIAN	190-195
		TRIASSIC	UPPER	RHAETIAN	
				NORIAN	
				KARNIAN	(205)
			MIDDLE	LADINIAN	
				ANISIAN	(215)
			LOWER	SPATHIAN	
				SMITHIAN	
				DIENERIAN	
				GRIESBACHIAN	225
	PALEOZOIC	PERMIAN	U	OCHOAN / DZHULFIAN	230
				GUADALUPIAN / KAZANIAN	240
			LOWER	LEONARDIAN / ARTINSKIAN	265-268
				WOLFCAMPIAN / SAKMARIAN, ASSELIAN	280
		PENNSYLVANIAN	U	VIRGILIAN / ORENBURGIAN, STEPHANIAN	290-295
				MISSOURIAN / GZHELIAN	
			M	DESMOINESIAN / MOSCOVIAN, WEST-PHALIAN	
				ATOKAN	310-315
			L	MORROWAN / BASHKIRIAN, NAMURIAN, U CARBONIFEROUS	
		MISSISSIPPIAN	U	CHESTERAN	325
			LOWER	MERAMECIAN / VISEAN, L CARBONIFEROUS	
				OSAGIAN	335-340
				KINDERHOOKIAN / TOURNAISIAN	345
		DEVONIAN	UPPER	CONEWANGOAN / CASSADAGAN / FAMENNIAN	353
				CHEMUNGIAN / FRASNIAN	
				FINGERLAKESIAN	359
			MIDDLE	ERIAN: GIVETIAN	
				ERIAN: EIFELIAN	370
			LOWER	ULSTERIAN / EMSIAN	374
				SIEGENIAN	390
				HELDERBERGIAN / GEDINNIAN	395
		SILURIAN		CAYUGAN	
				PRIDOLIAN ~~LUDLOVIAN~~	
				LUDLOVIAN	
				NIAGARAN: WENLOCKIAN	
				NIAGARAN: LLANDOVERIAN	
				ALEXANDRIAN	430-440
		ORDOVICIAN	UPPER	CINCINNATIAN: RICHMONDIAN / ASHGILLIAN	
				MAYSVILLIAN	
				EDENIAN	
			MIDDLE	MOHAWKIAN: BARNEVELD / CARADOCIAN	
				WILDERNESS	
				PORTERFIELD	445
				CHAZYAN: ASHBY / LLANDEILIAN	
				MARMOR / LLANVIRNIAN	
				WHITEROCK	
			L	CANADIAN: ARENIGIAN	500±
				TREMADOCIAN	
		CAMBRIAN	UPPER	TREMPEALEAUAN	
				FRANCONIAN	
				DRESBACHIAN	515
			MIDDLE	ALBERTAN	540
			LOWER	WAUCOBAN	570
PROTEROZOIC	HADRYNIAN				
	HELIKIAN	NEOHELIKIAN		GRENVILLIAN	955
		PALEOHELIKIAN		ELSONIAN	1370
	APHEBIAN			HUDSONIAN	1735
	ARCHEAN			KENORAN	2480

OROGENIES: EUREKAN OROGENY; ELLESMERIAN OROGENY

SVERDRUP BASIN

FRANKLINIAN GEOSYNCLINE — NORTHERN ELLESMERE FOLD BELT — FRANKLINIAN GEOSYNCL. — EUREKA SOUND FOLD BELT

RENS FIORD UPLIFT AND NE-FLANK — MILNE-M'CLINTOCK FOLD COMPLEX

AXEL HEIBERG MOUNTAINS — GRANTLAND MOUNTAINS — EUREKA UPLANDS

AXEL HEIBERG ISLAND — ELLESMERE ISLAND

1	2	3	4	5	6	7	8	9
South of Bunde Fiord	Northwestern and north-central Axel Heiberg I.	North and east of Rens Fiord	Kleybolte Peninsula	Emma Fiord	Phillips Inlet	M'Clintock Inlet	Central Hare Fiord – Blue Mountains	Head of Hare Fiord
alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift (737)	alluvium; local raised marine deposits; Arctic Islands drift	alluvium; local raised marine deposits; Arctic Islands drift
	(734) sand, clay							
Faulting, Folding	Faulting, Folding; uplift?	Faulting, Folding	Faulting, Folding	Faulting, Folding	Faulting, Folding	Faulting, Folding	Faulting, folding	Faulting, Folding
						OPEN FILE 174 OCT 1973 GEOLOGICAL SURVEY OTTAWA		
	(738½) vb; vb; Sh, ss; vb						CHRISTOPHER sh; (734½) 0.5+	
	(734½) 2.0+; ISACHSEN ss, cg; vb; (735½) 1.0+; vb						(738½) vb 0.5; ISACHSEN ss, cg; (735½) 0.5	
	DEER BAY sh, slt						DEER BAY sh, slt	
	(734½) (unnamed); AWINGAK ss (735½) 0.4; sh, slt						(734½) 0.9; AWINGAK ss, slt, sh (735½) 1.0; (734½) UPPER SAVIK sh 0.4	
	SAVIK sh, slt; (734½) 2.0; 4.0					LOWER SAVIK	(735½) JAEGER ss 0.15; (734½) sh 0.05; (735½) BORDEN ISLAND ss 0.28	
	HEIBERG ss, slt, sh; (735½) 2.0; BLACK MOUNTAIN: sh 0.2, slt 0.1, sh, ss 1.0; sh, slt; (734½) 0.3						HEIBERG ss, slt, sh; (735½) 4.0; BLACK MOUNTAIN: (734½) sh 0.4, (734½) slt 0.3, (734½) sh 3.0, (734½) slt 0.5, (734½) sh 1.0	
	BLIND FIORD slt, sh, cg (734½) 1.0	BLIND FIORD (734½) slt, sh					BLIND FIORD slt, sh, ss (734½) 1.7-3.0	
							(740½) DEGERBØLS ls, cht 0.6	(735½) TROLD FIORD ss, slt, ls, cht 0.39
		(734½) VAN HAVEN slt, ss, cht, ls 0.7; (738½) ESAYOO vd 0.13	(734½) VAN HAVEN slt, sh, cht 0.36+				(734½) VAN HAVEN cht, slt, ss, sh 1.34	(738½) ESAYOO vd 0.24
		NANSEN ls (740½) 4.0+	NANSEN ls, cht, dol	NANSEN	NANSEN		HARE FIORD	NANSEN ls, anh, slt
		OTTO FIORD (743) anh 0.05±	(740½) 4.0; AUDHILD vd, Pyro 1.84 (738½)	(740½)	(740½)	younger rocks of late Paleozoic age present, but stratigraphic sections not available	(734½) ls, slt, sh, cht 2.48	
		BORUP FIORD (736) ss, cg 0.4±	BORUP FIORD (736) ss, cg, slt 1.24	BORUP FIORD (736) dol, cg, ss 0.33	BORUP FIORD (736) ss, cg, slt		(743) OTTO FIORD anh 1.0	(740½) 7.78; BORUP FIORD (736) ss 1.29
		EMMA FIORD (734½) slt, sh, ss, cg, c 0.4±	EMMA FIORD (734½) slt, sh, ss, cg, c 1.14					
	uplift	uplift	uplift	uplift	uplift	uplift		uplift
	uplift?	uplift?	uplift?	uplift?	uplift?	uplift?		uplift?
		(360± 25 m.y.) (745) qd	(745) di					
	Folding, faulting?	Folding, faulting?	Folding, faulting?	Folding, faulting?	Folding, regional metamorphism, faulting? (745) qm	Folding, faulting?		Folding, faulting?
		SVARTEVAEG (735) ss, slt, va, vb, vx, cg, bx 10.5+; STALLWORTHY ss, slt, cg, bx (736) 120±	rifting? (738) b (742) vb			rifting? (742) vb (738) b (742) g		
		Faulting, (?) Folding		738½	740½ ls, dol	(735) ss, ls, slt 0.27+		
		LANDS LOKK sl, ss, va, cg, bx (734½) 3.0+		LANDS LOKK: (734½) va, ls 10+; sl, ss, cg 5.0+; sl, ss, pyro (734½) 3.0+	vx, va, vb, ss (738½)	(740½) NARVIN ls, ss 0.6+; (735) ss, sh 0.4+		
			IMINA ss, slt, sl	IMINA ss, slt, sl	IMINA ss, slt, sl, sch	IMINA ss, slt, sl, cg		
			(735)	(735)		(735) 0.76+		
						CHALK LENS: (734½) sl, ph; (740½) ls, dol		
						CHALK LENS: (734½) sh, ls 1.32; CLIFFS: ls, dol, ss, slt (740½) 1.87+; TACONITE RIVER ss, slt, cg, ls (736) 0.75+; AYLES dol, ls (740½) 1.0+	TACONITE RIVER ss, slt, cg, ls (736) 0.75+; AYLES	
						M'CLINTOCK va, vx, pyro, ls (738½) 43+		
						CAPE DISCOVERY: (736) ss, cg, sl, dol, va 1.5; (734½) slt, ls 1.05; (740½) ls, dol, anh 0.3+; (736) ss, cg, ls, dol, va, vx 0-0.22		
		REENS FIORD (738½) vb, vx, ls 1.4; (734½) sl, ss; (740½) dol, ls 1.0+; (HAZEN) (743) ch, sl, phy				uplift; Folding, metamorphism; va, vx, cht, ls; sl, phy; (738½) 1.0+		
		GRANT LAND ss, sl, phy; (736)				Pre-Ordovician rocks probably present in metamorphic complex but ages of original sediments and metamorphism uncertain		GRANT LAND ss, sl, phy, cg; (736) 3.58+

Meso-zoic and Cenozoic composite section 2 — See

See Paleozoic sections

Explanation: number in brackets, e.g. (736) denotes "Eagle Verithin" colored pencil number

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