STANDARDS FOR GEOLOGICAL TIME

TIME			TIME-STRATIGRAPHIC			TIME-ROCK *M.Y.
EON	ERA	PERIOD	SERIES		STAGE	
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	SENONIAN	MAESTRICHTIAN	70
					CAMPANIAN	76
					SANTONIAN	82
					CONIACIAN	88
					TURONIAN	94
					CENOMANIAN	100
			LOWER		ALBIAN	106
					APTIAN	112
				NEOCOMIAN	BARREMIAN	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		
				ATOKAN	MOSCOVIAN / WESTPHALIAN	
			L	MORROWAN	BASHKIRIAN	310-315
					NAMURIAN	U CARBONIFEROUS
		MISSISSIPPIAN	U	CHESTERAN		325
			LOWER	MERAMECIAN	VISEAN	
				OSAGIAN		335-340
				KINDERHOOKIAN	TOURNAISIAN	L CARBONIFEROUS 345
		DEVONIAN	UPPER	CONEWANGOAN		
				CASSADAGAN	FAMENNIAN	353
				CHEMUNGIAN	FRASNIAN	
				FINGERLAKESIAN		359
			MIDDLE	ERIAN	GIVETIAN	
					EIFELIAN	370
			LOWER	ULSTERIAN	EMSIAN	374
					SIEGENIAN	390
				HELDERBERGIAN	GEDINNIAN	395
		SILURIAN		CAYUGAN		
				NIAGARAN	LUDLOVIAN	
					WENLOCKIAN	
					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

	10	11	12	13	14	15	16	17
	SVERDRUP BASIN							
	FRANKLINIAN GEOSYNCLINE						FRANKLINIAN GEOSYNCLINE	
	EUREKA SOUND FOLD BELT					CENTRAL ELLESMERE FOLD BELT		
				TANQUARY STRUCTURAL HIGH		HAZEN PLATEAU DIVISION	VICTORIA AND ALBERT MOUNTAINS DIVISION	
	EUREKA UPLANDS		GRANTLAND MOUNTAINS			HAZEN PLATEAU	VICTORIA AND ALBERT MNTNS	
	ELLESMERE ISLAND							
	Cañon Fiord, near East Cape	Near confluence of Tanquary and Greeley Fiords	Between head of Tanquary Fiord and Ekblaw Lake	Southeastern Yelverton Pass	Northwestern Yelverton Pass	North of Lake Hazen	Northeastern Hazen Plateau	Judge Daly Promontory, south and southeast of Elk Bay
RECENT		alluvium (737) local raised marine deposits Arctic Islands drift	alluvium (737) local raised marine deposits Arctic Islands drift	alluvium (737) Arctic Islands drift	alluvium (737) Arctic Islands drift	alluvium (737) Arctic Islands drift	alluvium (737) local raised marine deposits Arctic Islands drift	alluvium (737) local raised marine deposits Arctic Islands drift
PLEISTOCENE–PALEOCENE	Faulting, folding	Faulting, folding	Faulting, folding; uplift ?	Faulting, folding; uplift ?	Faulting, folding; uplift ?	thrust faulting, minor folding; EUREKA SOUND ss, sh, c	(736) sand, clay, gravel; EUREKA SOUND ss, sh, c	Faulting, folding; uplift ?
MAESTRICHTIAN–CONIACIAN						(736) 0.5+	(736)	
TURONIAN–CENOMANIAN		OPEN FILE 174 Oct 1973 GEOLOGICAL SURVEY OTTAWA				HASSEL ss, slt, sh; (735½) 0.37+		
ALBIAN–BERRIASIAN	Triassic, Bjorne, Schei Point, and Heiberg formations and Jurassic strata present but stratigraphic sections not available		(733½) Vb; ISACHSEN ss (735½) 0.5	ISACHSEN ss (735½)	ISACHSEN ss (735½)	CHRISTOPHER sh, slt, ls, ss; (734½) 2.11; ss, sh, c		
UPPER TITHONIAN–PORTLANDIAN			sh, slt, ss; (734½) 1.5	sh, slt, ss; (734½) 1.05	sh, slt, ss; (734½) 1.15	(735½) 0.88		
KIMMERIDGIAN–HETTANGIAN			HEIBERG (735½) ss, slt, sh 2.80; (735½) SCHEI POINT ss 0.08	HEIBERG (735½) ss, slt, sh 2.12; uplift ?	HEIBERG (735½) ss, slt, sh 2.20; (735½) SCHEI POINT ss 0.08	HEIBERG (735½) ss, cg, c 1.71; "SCHEI POINT" slt, sh, ss, ls; (734½) 0.46		
RHAETIAN–GRIESBACHIAN		BJORNE ss, cg (735½)	BJORNE ss, slt, sh (735½) 0.12-0.3			BJORNE ss, slt, sh, cg, c (735½) 2.35		
OCHOAN–GUADALUPIAN	(735½) TROLD FIORD ss, cg 0.55				(740½) TROLD FIORD ls, ss 0.2			
LEONARDIAN	(735½) ASSISTANCE ss 0.57; (735½) SABINE BAY ss 0.64		(735½) SABINE BAY ss 0-0.6					
WOLFCAMPIAN–ASSELIAN	TANQUARY (740½) ls, ss, slt 2.18; (743) MOUNT BAYLEY anh 0.15	TANQUARY (740½) ls, ss, slt 0.7; (743) MOUNT BAYLEY anh 0.5	BELCHER CHANNEL ls, ss		NANSEN ls, ss, cg	BELCHER CHANNEL ls, ss		
VIRGILIAN–MISSOURIAN	ANTOINETTE ls, ss, sh, cht (740½) 2.65	ANTOINETTE (740½) ls, ss, slt, anh 1.55	(740½) 0.5			(740½)		
DESMOINESIAN–MORROWAN		CANYON FIORD ss, ls, cg, slt (736) 1.26	CANYON FIORD (736) ss, ls, bx, cg 0.5		(740½) 2.2+; BORUP FIORD (736) ss, slt, sh, cg 15			
CHESTERAN–KINDERHOOKIAN		uplift	uplift	uplift	uplift		uplift	uplift; folding, faulting
CONEWANGOAN–CASSADAGAN								
CHEMUNGIAN–FINGERLAKESIAN		Folding, faulting ?	Folding, faulting ?	Folding, faulting ?	Folding, faulting ?		Folding, faulting ?	
ERIAN								
ULSTERIAN–HELDERBERGIAN								
CAYUGAN–NIAGARAN					(740½) MARVIN ls			
ALEXANDRIAN		IMINA ss, slt, sl; (735)				IMINA ss, slt, sl		IMINA ss, slt, sl, cg
UPPER ORDOVICIAN						(735); HAZEN sl, cht, slt, ls, bx; 7A 1.3±	(735); CAPE PHILLIPS sh, slt, ls (734½); (740½) IRENE BAY ls 0.68; (740½) THUMB MOUNTAIN ls 1.80; BAY FIORD ls (740½) 1.46; COMMANDER BAY	
MIDDLE ORDOVICIAN								
LOWER ORDOVICIAN							(740½) ELEANOR RIVER ls 0.78; (740½) COPES BAY ls, dol, slt 2.83	
CAMBRIAN			GRANT LAND ss, sl, phy, cg, cht; (736)	GRANT LAND ss, sl, phy, cg; (736)		GRANT LAND ½ sl, phy	PARRISH GLACIER ls, dol, slt, sh; (740½) 1.5+ ~ 2.13	
							(740½) SCORESBY BAY dol, cg, bx, ls 2.55 ~ 2.83; (724½) KANE BASIN phy, slt, ss, ls; (726) RAWLINGS BAY ss, slt, sh, phy 1.78 ~ 2.23; (724½) RITTER BAY phy, ss 1.4; (724½) ARCHER FIORD ss 0.3	0.82 ~ 1.31
							ELLA BAY (740½) dol, cg, ls 2.05	
							KENNEDY CHANNEL phy, ss, dol, ls (734½) 3.65+	

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

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