

LEGEND

Age (numerical limits in Ma)			STRATIFIED ROCKS (including metamorphosed extensions of units)	IGNEOUS ROCKS (including metamorphosed extensions of units)	METAMORPHIC ROCKS	
EON	ERA	SUB-ERA				
PROTEROZOIC	PHANEROZOIC	Tertiary [T]	Impact breccia and melt sheets [Mistastin Lake crater; 39 Ma Ar-Ar age, northern SECP]			
		Neoproterozoic-Cambrian [Nc]	Sandstone and nodular limestone; local basalt at base of sequence [Labrador Gp; Strait of Belle Isle area, southeastern GP]			
		545	Arkose and conglomerate [Double Mer Fm., Lake Melville rift system, northeastern GP] (dots indicate inferred extent under Quaternary cover)			
	MESOPROTEROZOIC [M]	NEO-PROTEROZOIC [N]	900		Grenville Province Late- to post-tectonic granite and syenite plutons [1080 to 956 Ma, southern GP] M ₂ gs? - Inferred post-tectonic granitoid plutons [areas of southern GP mapped only at reconnaissance level] Monzonite to granite [Pinware terrane, southeastern GP] Syenite to granite [Pinware terrane, southeastern GP] Granitoid rocks [1133 to 1123 Ma] Anorthosite and other, locally layered, mafic rocks Gabbroic plutons	
			1200	Grenville, Southeastern Churchill and Nain provinces Siltstone, shale and quartzite, minor dolomite Subaerial basalt flows Arkose, grading south into quartzite Peralkaline felsic volcanic rocks [e.g., Letitia Lake Gp., 1327 Ma, northern GP; Flowers River Igneous Suite, ca. 1291 Ma, northern NP]	Grenville, Southeastern Churchill and Nain provinces Gabbro sills [e.g., Seal Lake Gp., 1250 to 1224 Ma, north-central GP] Granite plutons [e.g., Upper North River pluton, ca. 1296 Ma, GP] Peralkaline granite and syenite intrusions, locally with ring structure [Strange Lake intrusion, 1240 Ma, SECP; Flowers River Igneous suite, ca. 1290 Ma, NP; Red Wine Intrusive Suite, ca. 1337 Ma, north-central GP] Alkaline syenite and metamorphic equivalent rocks [Red Wine Intrusive Suite, north-central GP] Granitoid rocks, including rapakivi varieties [1351 to 1292 Ma] Anorthositic rocks [1331 to 1305 Ma] Intermediate rocks, chiefly ferrodiorite [1333 to 1301 Ma] Layered intrusions of troctolite, gabbro, norite and anorthosite [1322 to 1305 Ma]	
		1350	Grenville and Southeastern Churchill provinces Arkose, quartzite and minor conglomerate [Sims Fm., northwestern GP, southern SECP]	Grenville and Southeastern Churchill provinces Olivine gabbro and metamorphic equivalents, including coronitic varieties [Shabogamo and Michael gabbros, ca. 1460 to 1425 Ma, northern GP; southwestern SECP] Granitoid rocks [1500 to 1420 Ma] Anorthosite and other, locally layered, mafic rocks Layered gabbro - anorthosite - ultramafite intrusions [e.g., Kyanan Lake intrusion] Quartz diorite [Rigolet quartz diorite, 1489 Ma, eastern GP]		
		PALEO- AND/OR MESOPROTEROZOIC [P-M]	1600	Grenville Province Metasedimentary and felsic volcanic rocks [1650 to 1450 Ma, Pinware terrane, southeastern GP]	Grenville Province K-feldspar-megacrystic granitoid plutons Syenite, monzonite and diorite Granite, syenite, monzonite, diorite and derived gneiss [1650 to 1450 Ma]; P-Mgs? - rocks of inferred similar age and composition in areas mapped only at reconnaissance level [southeastern GP] Gabbro and derived amphibolite [southwestern GP]	Grenville Province Gneisses of possible mixed composition and age [area of southern GP mapped only at reconnaissance level]
			1600	Grenville Province Rhyolitic to andesitic volcanic rocks including ash-flow tuff and agglomerate [e.g., Bruce River and Blueberry Lake gps., ca. 1650 Ma] Volcaniclastic sandstone, arkose and conglomerate [e.g., Bruce River and Blueberry Lake gps.]	Grenville, Nain and Makkovik provinces Granite, quartz monzonite, granodiorite, syenite and minor quartz diorite [e.g., ca. 1650 Ma; Trans-Labrador batholith and coeval rocks in GP and MP] Granitoid rocks [1645 to 1626 Ma; including some ca. 1780 to 1720 Ma rocks] Anorthosite and other, locally layered, mafic components [1645 to 1625 Ma] Mafic intrusive suites (gabbro-norite, lesser diorite), some metamorphosed at amphibolite to granulite facies [e.g., Adavik Intrusive Suite, 1649 Ma, MP; White Bear Arm and Ossok Mountain suites, ca. 1650 to 1623 Ma, GP] Layered gabbro, troctolite and anorthosite, generally recrystallized [Bridges intrusion, 1667 Ma Sm-Nd age, central NP] Quartz diorite to granodiorite plutons K-feldspar megacrystic granite and other granitoid plutons High-level, locally fluorite-bearing granites [1776 to 1719 Ma, northeastern NP and MP]	Grenville Province Granitic orthogneiss, commonly migmatitic, locally includes pre-Labradorian ca. 1780 to 1720 Ma rocks in the Mealy Mountains terrane; P ₂ gn? - inferred granitic orthogneiss Granodioritic orthogneiss [lesser quartz diorite and granitic orthogneiss], commonly migmatitic; P ₂ gn1? - inferred granodioritic orthogneiss (s.l.); may include Mesoproterozoic rocks Mafic gneiss, probably of supracrustal origin, mainly at granulite facies [e.g., Beaver gneiss] Pelitic, migmatitic metasedimentary gneiss and minor psammitic gneiss at amphibolite to granulite facies [e.g., Disappointment Lake gneiss, central GP] Dolomitic marble and calc-silicate rock
	PALEOPROTEROZOIC [P]	LATE PALEOPROTEROZOIC [P ₃]	1800	Southeastern Churchill, Makkovik, Nain and Grenville provinces Basalt, andesite, dacite and conglomerate [Ingrid Gp., ca. 1900 Ma, eastern SECP] Rhyolite, ash-flow tuff, breccia and hypabyssal rhyolite intrusions; volcaniclastic siltstone and sandstone; minor basalt [e.g., Upper Allik Gp., ca. 1860 to 1807 Ma, MP] Basaltic flows, breccias and pyroclastic rocks of predominantly subaerial origin [Mugford Gp., ca. 1950 Ma, northern NP] Pillow basalt, basaltic pyroclastic rocks; minor siltstone and greywacke [Doublet Gp., western SECP; Petscapiskau Gp., central SECP] Schistose amphibolite derived from mafic volcanic rocks [Moran Lake and Lower Allik gps., MP] Arkosic siltstone and sandstone, locally dolomitic [Knob Lake Gp., western SECP] st - Siltstone - shale - greywacke sequences of deep water, turbiditic origin [Upper Knob Lake Gp., western SECP]; sts - Schistose equivalent rocks [Upper Knob Lake Gp., western GP] Alkaline basalt flows, pyroclastic rocks and local peralkaline felsic volcanic rocks; minor ultramafic rocks [Knob Lake Gp., 1877 Ma, western SECP] i - Cherty ironstone and underlying quartzite [Knob Lake Gp., western SECP] is - Schistose to gneissic equivalent rocks [Knob Lake Gp., western GP] d - Dolomite and chert breccia [Knob Lake Gp., western SECP] dm - Equivalent dolomitic marble [Knob Lake Gp., western SECP] Massive to pillowed basalt flows [Knob Lake Gp., ca. 2142 Ma, western SECP] sh - Shale and sandstone of shallow- to deep-water origin [Lower Knob Lake Gp., western SECP; Ramah, Mugford and Snyder gps., northern SECP and NP; Moran Lake Gp., MP] ss - Equivalent pelitic schist [Lower Knob Lake Gp., GP; Petscapiskau Gp., central SECP; Lake Harbour Gp., northern SECP; lower Allik Gp., MP] Arkose and conglomerate [Knob Lake Gp., western SECP]	Southeastern Churchill, Makkovik and Nain provinces Tonalite, granodiorite and lesser granite [1910 to 1885 Ma, northern SECP; Island Harbour Bay Plutonic Suite, ca. 1905 Ma, MP] Granite and granodiorite [1840 to 1795 Ma, central SECP and MP] Orthopyroxene-bearing tonalite to granite plutons [Kilinek suite, 1909 to 1830 Ma, northern SECP; De Pas batholith, 1830 to 1810 Ma, central SECP] Ultramafic sills [Petty Redolite, western SECP] Gabbro and leucogabbro sills [e.g., Wakuach Gabbro, ca. 1884 to 1874 Ma, western SECP; MP]	Southeastern Churchill and Makkovik provinces Granitic gneiss [northern SECP] Tonalite, granodiorite and monzogranite gneiss; minor amphibolite, calc-silicate and felsic (metavolcanic?) gneiss [Cape Harrison Metamorphic Suite, MP] Mafic gneisses of mixed intrusive and extrusive origin [SECP] Mixture of granitic to tonalitic metaplutonic rocks, supracrustal gneiss and tonalitic gneiss, at granulite facies [Lac Lomier complex, ca. 1840 to 1830 Ma, northern SECP] Migmatitic, quartz - feldspar - garnet - sillimanite - biotite - graphite metasedimentary gneiss, mainly mylonitic [Tasiyuq gneiss, 1940 to 1895 Ma detrital ages, northern SECP] Pelitic metasedimentary gneiss, minor marble and calc-silicate rock [northern SECP]
			2100	Arkose and conglomerate [Knob Lake Gp., western SECP]	Southeastern Churchill Province Gabbro and derived gneiss [part of the granitic to gabbroic Pallatin intrusive suite; ca. 2300 Ma; central SECP]	
ARCHEAN AND/OR PALEOPROTEROZOIC [A-P]		2500		Southeastern Churchill Province Anorthosite, leucogabbro, leuconite and derived gneiss [e.g., Hutton anorthositic suite, northern SECP] Granite [central SECP]	Southeastern Churchill Province Granitic gneiss [northern SECP] Orthogneiss and associated migmatite of tonalite - granodiorite - granite composition [northern SECP] Mafic gneisses derived from gabbroic intrusions and metavolcanic rocks [northern SECP] Pelitic gneiss, minor marble and calc-silicate rock [northern SECP] Undifferentiated gneiss [parts of northern SECP mapped only at reconnaissance level]	
ARCHEAN [A]	UNDAINED ARCHEAN [U]	2500	Southeastern Churchill Province Mafic metavolcanic, metasedimentary and metagabbroic rocks [central SECP]	Southeastern Churchill and Makkovik provinces Anorthosite and leucogabbroic rocks [central SECP and MP]		
		NEOARCHEAN [AN]		Nain and Superior provinces Late- to post-tectonic charnockite plutons [Kammasuit granite, northern NP] Granitoid plutons and derived gneiss [Ashuanipi Complex, SP] Gabbroic plutons [Ashuanipi Complex, SP] Tonalite, quartz diorite and minor diorite [Ashuanipi Complex, SP]	Superior, Southeastern Churchill and Grenville provinces Tonalitic and other gneisses reworked under retrograde metamorphic conditions during Grenvillian orogenesis [rocks equivalent to the Ashuanipi Complex, western GP] Metatonalite and tonalite gneiss at granulite facies [Ashuanipi Complex, 2696 to 2669 Ma, SP] Granitic gneiss [central SECP] Diatexite of granodiorite - monzogranite composition; minor metasedimentary gneiss, tonalite and mafic gneiss; generally at granulite facies [Ashuanipi Complex, 2685 to 2650 Ma, SP] Metatonalite and tonalite gneiss [2682 to 2675 Ma, central SECP] Metasedimentary quartz - feldspar - biotite ± garnet gneiss; generally migmatitic and at granulite facies [ca. 2700- Ma detrital ages, SP; central SECP]	
	MESO-ARCHEAN [AM]	2800	Southern Nain and Makkovik provinces Mafic volcanic and volcanoclastic rocks, lesser sedimentary and felsic volcanic rocks, and mafic - ultramafic sills; at greenschist to amphibolite facies [Flowers Lake and Hunt River gps., ca. 3000 Ma; southern NP and equivalent rocks in northern MP]	Southern Nain Province (Hopedale block) Granodiorite, tonalite and minor granite [Kananiktok Intrusive Suite, ca. 2850 to 2830 Ma]	Southern Nain and Makkovik provinces Tonalitic and other gneisses reworked and retrograded during Makkovikian orogenesis [MP] Tonalitic to granodioritic migmatitic orthogneiss containing abundant mafic to ultramafic inclusions and relict mafic dykes [e.g., Maggo gneiss, ca. 3200 to 2800 Ma, southern NP] Mafic gneisses including rocks of intrusive and extrusive origin [southern NP]	
	EO- to PALEO-ARCHEAN [AP]	3200		Northern Nain Province (Saglek block) Anorthosite, leucogabbroic and minor ultramafic rocks, usually in deformed, layered suites	Northern Nain and Southeastern Churchill provinces Tonalitic and other gneisses reworked and retrograded during Paleoproterozoic orogenesis [northern SECP] Tonalitic to granodioritic migmatitic gneisses containing abundant mafic to ultramafic inclusions and relict mafic dykes [e.g., Ulvak gneiss, ca. 3800 to 3600 Ma], plus minor Mesoproterozoic rocks [northern NP] Mafic gneisses including rocks of intrusive and extrusive origin [northern NP] Pelitic metasedimentary gneiss, lesser marble, quartzite, ironstone and amphibolite-mafic granulite [e.g., Upenavik and Nullak suites, northern NP]	
4000						