



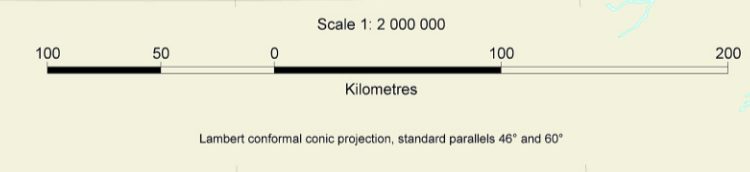
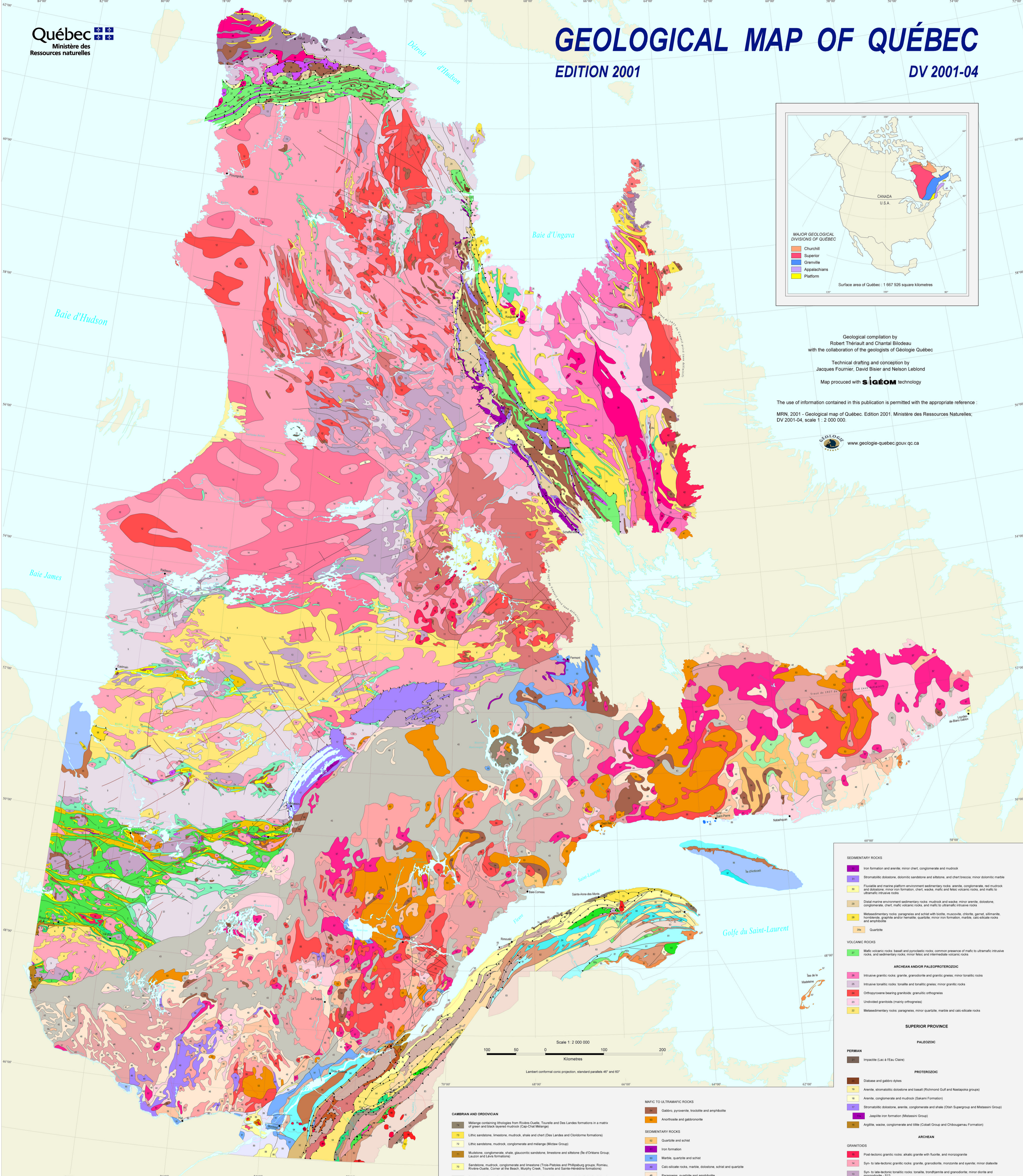
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MRN, 2001 - Geological map of Québec, Edition 2001, Ministère des Ressources Naturelles,
DV 2001-04, scale 1 : 2 000 000.

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SEDIMENTARY ROCKS	
1	Iron formation and arenite, minor chert, conglomerate and mudrock
2	Stromatolitic dolostone, dolomitic sandstone and siltstone, and chert breccia, minor dolomitic marble
3	Fluvial and marine platform environment sedimentary rocks: arenite, conglomerate, red mudrock and dolostone, minor iron formation, chert, waste, mafic and felsic volcanic rocks, and mafic to ultramafic intrusive rocks
4	Datal marine environment sedimentary rocks: mudrock and waste; minor arenite, dolostone, conglomerate, chert, mafic volcanic rocks, and mafic to ultramafic intrusive rocks
5	Metasedimentary rocks: paragneiss and schist with biotite, muscovite, chlorite, garnet, sillimanite, hornblende, quartzite and/or hornfels, quartzite, minor iron formation, marble, calc-silicate rocks and amphibolite
6	Quartzite
VOLCANIC ROCKS	
7	Mafic volcanic rocks: basalt and pyroclastic rocks, common presence of mafic to ultramafic intrusive rocks, and sedimentary rocks, minor felsic and intermediate volcanic rocks
ARCHEAN AND/OR PALEOPROTEROZOIC	
8	Intrusive granitic rocks: granite, granodiorite and granitic gneiss, minor tonalitic rocks
9	Intrusive tonalitic rocks: tonalite and tonalitic gneiss, minor granitic rocks
10	Orthopyroxene bearing granitoids: granulitic orthogneiss
11	Undivided granitoids (mainly orthogneiss)
12	Metasedimentary rocks: paragneiss, minor quartzite, marble and calc-silicate rocks
SUPERIOR PROVINCE	
PALEOZOIC	
PERMIAN	
13	Impacts (Lac à Fleau Complex)
PROTEROZOIC	
14	Diorite and gabbro dykes
15	Arenite, stromatolitic dolostone and basalt (Richmond Gulf and Nastepoka groups)
16	Arenite, conglomerate and mudrock (Sakani Formation)
17	Stromatolitic dolostone, arenite, conglomerate and shale (Oton Supergroup and Missisquoi Group)
18	Jaspilite iron formation (Mataasani Group)
19	Amphibole, waste, conglomerate and siltite (Cobalt Group and Chibougamau Formation)
ARCHEAN	
GRANITOIDS	
20	Post-tectonic granitic rocks: alkalic granite with fluorite and monzonite
21	Syn- to late-tectonic granitic rocks: granite, granodiorite, monzonite and syenite, minor diorite
22	Syn- to late-tectonic tonalitic rocks: tonalite, trondhjemite and granodiorite, minor diorite and monzonite, S13
23	Syn- to late-tectonic orthopyroxene bearing granitoids, orthogneiss, orthogneiss, orthogneiss and orthogneiss, minor orthopyroxene bearing diorite, metasedimentary rocks and mafic to ultramafic intrusions
24	Syn- to late-tectonic dioritic granitoids, diorite with biotite, orthopyroxene, clinopyroxene, hornblende, garnet, cordierite, sillimanite and/or andalusite, containing <math>< 50\%</math> xenoliths of paragneiss and/or mafic gneiss
25	Syn- to late-tectonic undivided granitoids
26	Pre- to syn-tectonic granitoids: tonalitic and trondhjemite gneisses, undivided gneiss, minor diorite
MAFIC TO ULTRAMAFIC INTRUSIONS	
27	Stromatolite complexes: anorthosite, gabbro and pyroxenite
28	Mafic intrusive rocks: gabbro, gabbroite, diorite, and carbonate complex; minor intrusive and extrusive ultramafic rocks
29	Ultramafic intrusive rocks: pyroxenite, peridotite, hornblende, serpentinite, and ultramafic and mafic sills
SEDIMENTARY ROCKS	
30	Sedimentary rocks: waste, mudrock, conglomerate and iron formation
31	Iron formation
32	Metasedimentary rocks: paragneiss and schist with biotite, garnet, orthopyroxene, sillimanite, hornblende, cordierite, staurolite and/or kyanite, iron formation, marble, and white anatectic granite associated with the metasedimentary rocks, common presence of intrusive and volcanic rocks
VOLCANIC ROCKS	
33	Felsic volcanic rocks: rhyolite, rhyodolite, dacite, pyroclastic rocks, and felsic porphyry intrusions, minor intermediate to mafic volcanic rocks and sedimentary rocks
34	Mafic and intermediate volcanic rocks: basalt, andesite and pyroclastic rocks, minor amphibolite, felsic and ultramafic rocks, mafic intrusions and sedimentary rocks
35	Amphibolite, metabasalt and mafic gneiss
36	Ultramafic volcanic rocks: komatiite, magnesian basalt and ultramafic rocks of indeterminate origin, minor mafic volcanic rocks and sedimentary rocks
SYMBOLS	
	Indeterminate fault
	Thrust fault (the upper/lower block is on the side with the triangle)
	Unconformity (the older rocks are on the side with the teeth)
	Geological contact
	Boundary of major geological divisions

LEGEND	
PLATFORM	
(St. Lawrence, Anticosti and James Bay Platforms)	
MESOZOIC	
CRETACEOUS	
1	Alkalic intrusive rocks and associated diatreme breccias, skarns (Montérégie Intrusive Suite)
PALEOZOIC	
LOWER DEVONIAN	
2	Sandstone and arkose (Sextant Formation)
SILURIAN	
3	Enonchite limestone (Anticosti Group)
4	Limestone, shale and sandstone (Anticosti Group); limestone, dolostone, chert, gypsum and arthyrilite (Rivière Esseau, Rivière Severn and Kérougan Formations)
UPPER ORDOVICIAN	
5	Red shale and green sandstone (Quebecan Group); limestone and shale (Joliff Group); limestone (Lakeside Group)
6	Limestone, shale and sandstone (Lorraine and Joliff groups)
MIDDLE ORDOVICIAN	
7	Shale (Uca Shale)
8	Shale, slate, dolostone, mudstone, dolomitic siltstone and calcareous mudstone (Sainte-Foisite Group)
9	Limestone and shale (Trenton Group); dolostone, limestone and sandstone (Black River Group); limestone, shale and sandstone (Chazy Group)
10	Limestone, sandstone, shale and siltstone (Mingan Formation)
LOWER ORDOVICIAN	
11	Dolostone and sandstone (Beakmarbon Group and Romaine Formation)
CAMBRIAN AND ORDOVICIAN	
12	Mélange containing lithologies from Rivière-Ouelle, Tourville and Des Landes formations in a matrix of green and black layered mudrock (Cap-Chat Mélange)
13	Lithic sandstone, limestone, mudrock, shale and chert (Des Landes and Clondione formations)
14	Lithic sandstone, mudrock, conglomerate and mélange (Mactac Group)
15	Mudstone, conglomerate, shale, glauconitic sandstone, limestone and siltstone (St. Jacques, Lauson and Lévis formations)
16	Sandstone, mudrock, conglomerate and limestone (Trois Plaines and Philébourg groups; Romieu, Rivière-Ouelle, Corner at the Beach, Murphy Creek, Tourville and Sainte-Hélène formations)
17	Blocks and shivers of sandstone, volcanic rocks, granite, gabbro and serpentinite (Saint-Daniel and Cheatham mélanges)
18	Peridotite (Mont Albert Complex), amphibolite (Diabla Amphibolite)
PRECAMBRIANT AND CAMBRIAN	
19	Quartzite, sandstone, mudrock, quartzite and slate (Roosam Group)
20	Amphibolite, mafic volcanic rocks, peridotite, pyroxenite, gabbro and serpentinite (Theford Mines and Adriaic igneous complexes)
21	Mudrock, green and red slate, sandstone, limestone and basalt (Saint-Roch, Silley, Shefford and Timiné groups; les-Aux-Coches and Saint-Bernard-sur-Mer formations)
22	Sandstone, conglomerate, slate, dolostone and phyllite (Dix-Hill and Cabwell groups); schist, red phyllite, green sandstone and green shale (Barnett Schist)
23	Basalt (Caldwell Group)
24	Metabasalt and metasedimentary rocks (sandstone, siltstone, conglomerate, and red and green mudrock) (Sheshokh and Mazarewan groups)
PROTEROZOIC	
25	Paragneiss (Chen Lakes Massif)
GRENVILLE PROVINCE	
MESOZOIC	
TRASSIC	
26	Impacts (Manicouagan Reservoir)
PALEOZOIC	
CAMBRIAN	
27	Syenite (Bare des Moutons Syenite)
PROTEROZOIC	
GRANITOIDS	
28	Granite (Rigaud Granite)
29	Nepheline syenite and associated alkaline intrusions
30	Granite and pegmatite
31	Syenite, monzonite, granodiorite and diorite
32	Orthopyroxene bearing granitoids: charnockite, mangerite, jolinite and hypersthene syenite
MAFIC TO ULTRAMAFIC INTRUSIONS	
33	Carbonatite and associated potassic ultramafic rocks
34	Mafic intrusive rocks: gabbro, diorite, gabbroite and anorthosite; common presence of ultramafic intrusive rocks, mafic volcanic rocks and sedimentary rocks
35	Ultramafic intrusive rocks: peridotite and pyroxenite; common presence of mafic intrusive and extrusive rocks, and sedimentary rocks
36	Amphibolite and undivided mafic gneiss, minor metabasalt

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