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Map 2022A Accompanying notes

Diabase dyke swarms and related units in Canada and adjacent regions

K.L. Buchan and R.E. Ernst



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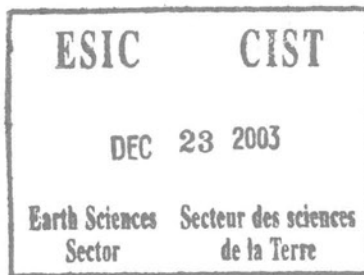


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**DIABASE DYKE SWARMS AND
RELATED UNITS IN CANADA AND
ADJACENT REGIONS**

K.L. Buchan and R.E. Ernst

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Cover illustration

Oblique aerial view of 1.27 Ga Mackenzie dykes in northern Canada. These dykes cut siliciclastic sedimentary rocks of the Recluse group in the Tree River fold belt, Wopmay Orogen. The dykes are 30 to 50 m wide and are exposed as ridges because of differential erosion. Photograph courtesy of R. Hildebrand.

DIABASE DYKE SWARMS AND RELATED UNITS IN CANADA AND ADJACENT REGIONS

TABLE

EXPLANATORY NOTES

No.: Dyke swarm number.

SWARM NAME: A dyke swarm is a set of dykes (emplaced as subvertical sheets) of similar age that typically display a simple linear, fanning, or arcuate geometry. Nevertheless, especially in areas where there are few details concerning ages, a single name has been employed for dykes having more than one trend or age. Swarm names assigned herein or in Ernst et al. (1996) and Ernst and Buchan (2001) are underlined. An asterisk before the swarm name indicates that it is a subset of a broader dyke event. Alternate names for the swarm are in round brackets, (). Obsolete names for the swarm are in square brackets, []. Abbreviations are used to indicate sheeted dykes (sd) and feeder dykes (fd). In addition, abbreviations identify dyke swarms that are highly deformed (de) and at intermediate to high metamorphic grade (me). The numbers (>1), (≥ 1), and (2) indicate respectively that more than one swarm, possibly more than one swarm, or two swarms are referred to by a single swarm name. In general, swarms in the list are broadly basaltic in composition, have mainly diabasic texture, and include metamorphosed equivalents. Several swarms of alkaline lamprophyre that are volatile-enriched equivalents of alkali basaltic rocks (e.g. Rock, 1991, p. 11–12, 122) have been included and labelled as alkaline lamprophyre. Some swarms of nonbasaltic composition are labelled: gabbronorite, norite, and gabbro-diorite. In swarms in which some dykes have compositions other than basalt, a plus sign (+) precedes the additional composition. The word 'mafic' is used for dyke swarms that are known to be mafic, but have not been confirmed as basaltic in composition.

LAT and LONG: Localities of small swarms and representative localities within large swarms are given in terms of latitude (LAT) and longitude (LONG) to assist the reader in locating the swarms on the map.

REGION: The general location of each dyke swarm is indicated (AB = Alberta; AK = Alaska; BC = British Columbia; GR = Kalaallit Nunaat (Greenland); LB = Labrador; MB = Manitoba; NB = New Brunswick; NF = Newfoundland; NS = Nova Scotia; NT = Northwest Territories; NU = Nunavut; ON = Ontario; QC = Quebec; SK = Saskatchewan; U-NC = north-central conterminous United States; U-NE = northeastern conterminous United States; U-NW = northwestern conterminous United States; YT = Yukon Territory).

TREND: Dominant trends are indicated (N = north; S = south; E = east; W = west). The term 'fan' indicates that the dykes radiate from a common focus. A 'variable' trend may reflect the presence of more than one swarm. A dash indicates that information on trend is unavailable. In general, trends are quoted from N to SSE (in a clockwise sense). Exceptions include swarms whose trends extend beyond this range (e.g. NE-NW), and fanning swarms that open in directions outside this range (e.g. a swarm fanning from WNW to SSW).

KEY REFERENCE(S): One or more references are provided that are thought to best describe the swarm. Additional referencing can be found in the catalogues of Ernst et al. (1996) and Ernst and Buchan (2001). In a number of cases, the swarm distribution was derived, in whole or in part, from tracing of aeromagnetic maps provided by the Geophysical Data Centre of the Geological Survey of Canada.

AGE: Swarms are listed in approximate chronological order (oldest to youngest), except for very poorly dated swarms, which are compiled alphabetically at the end of the table, and swarms #1 and #85, for which new age information was obtained after the map was compiled. The letter 'T' indicates a standard geological interval with age range assigned on the basis of the Geological Time Chart of Okulitch (2002). Otherwise, ages (in Ma) are established by geological correlation (G), such as crosscutting relationships, by paleomagnetic correlation (M), or by isotopic dating (U = U-Pb; P = Pb-Pb; K = K-Ar, A = Ar-Ar; R = Rb-Sr; S = Sm-Nd; b = baddeleyite; z = zircon). In general, U-Pb ages are the best constrained and are thought, in most cases, to represent the age of dyke emplacement. Age determinations by other methods are commonly less well constrained and may represent age of emplacement or age of metamorphic overprinting. Other abbreviations indicate dykes (d), sills (s), volcanic rocks (v), and intrusions (i). A question mark indicates that the age or age correlation is uncertain.

RELATED UNIT(S): Related igneous units include volcanic rocks (v), sills (s), intrusions (i), other dyke swarms (d), and ophiolite complexes (o) that are linked to a dyke swarm entry because of a feeder relationship or identical age and geographic proximity. Note that in the case of sills and dykes, some may be significantly younger than the named related unit that they intrude. A question mark indicates uncertainty in the correlation. Only related units whose names are followed by a label (e.g. #2, #40A) are shown on the map. Labels that include a letter (e.g. #40A) do not refer to dyke swarms and hence do not appear in the column 'No.'. Obsolete related unit names are in square brackets, [].

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
ARCHEAN									
1	Ameralik (me; de) (>1) (+norite)	64.09	51.57	GR	variable	Chadwick, 1981	Uz 3512 ± 7 (norite)	Nutman et al., 2001	(?) Malene (d) (#2)
2	Malene (me; de) (>1)	64.00	51.50	GR	-	Chadwick, 1981	T ≥ 2500	-	(?) Ameralik (d) (#1)
3	Tinissaq (me; de)	63.56	51.08	GR	-	Chadwick and Coe, 1983	T ≥ 2500	-	(?) Ameralik (d) (#1); (?) Neriunaq (d) (#4)
4	Neriunaq (Intra-Nûk) (me; de)	63.63	50.90	GR	-	Chadwick and Coe, 1983	T ≥ 2500; >#5	-	-
5	Qâqatsiaq (Intra-Nûk) (me; de)	63.73	50.85	GR	-	Chadwick and Coe, 1983	T ≥ 2500; <#4	-	-
6	Sarqarigssup Nunâ (me; de)	62.71	50.32	GR	-	Friend, 1976	T ≥ 2500	-	-
7	Ruston Lake (me)	49.14	89.78	ON	ENE	Sutcliffe and Smith, 1988	T ≥ 2500	-	-
8	Badour Lake (mafic) (me; de)	49.83	89.64	ON	variable	Cortis et al., 1988, p. 29–31	T ≥ 2500	-	(s, v)
9	Funger Lake (me)	50.52	89.10	ON	NNE	Sutcliffe, 1986	T ≥ 2500	Sutcliffe, 1986	-
10	Steep Rock Lake (mafic) (de in part) (>1)	48.90	91.40	ON	-	Wilks and Nisbet, 1988, p. 373, 382	T ≥ 2500	-	-
11	Lake of the Woods (me; de)	49.50	94.00	ON	-	Johns, 1987, p. 20, 53–58; Berger, 1991, p. 16–17	T ≥ 2500	-	-
12	Bell River Complex	49.80	77.63	QC	-	Hamigan and MacLean, 1976	T ≥ 2500	-	Bell River Complex
13	Sagdliata Nunâ Metabasite (me; de)	62.65	49.57	GR	-	Dawes, 1970, p. 21–26	T (?) ≥ 2500	-	-
14	Last Lake	62.18	93.68	NU	E	Park and Ralsler, 1992, p. 28	T (?) ≥ 2500	-	-
15	Saglek (me; de)	58.50	62.75	LB	-	Collerson and Bridgwater, 1979, p. 208–211	G 3620–3240	Bridgwater and Schiotte, 1991, p. 155	-
16	Tarssartôq (me; de) (>1)	65.16	50.00	GR	E, N	Nutman, 1986	U 3482–3462	White et al., 2000	-
17	Hopedale (me; de)	55.50	59.85	LB	-	Ermanovics, 1993, p. 39	G 3100–2840	Ermanovics, 1993	-
18	Woman-Confederation Assemblages (de) (>1)	51.15 50.96	92.83 91.10	ON	E	Rogers, 2002; Stott et al., 1987	G 2975–2699	N. Rogers, pers. comm., 2001	Woman assemblage (v); Confederation assemblage (v)
19	Patterson Lake - Swarm 1 (de)	62.88	113.05	NT	-	Bleeker et al., 1999	Uz 2734 ± 2	Bleeker et al., 1999	(?) Chan Formation (d) (#24); (?) Chan Formation (v)
20	Post-Yasinski Group	53.15	76.75	QC	-	Goutier et al., 1999, p. 27	G ca. 2732–2716	Goutier et al., 1999, p. 12, 27	-
21	Ege Bay (me)	69.50	76.00	NU	N	Morgan, 1979	Uz 2717+16/–13	Bethune and Scammell, 1997, map sheet 3	-
22	Post-Duncan Intrusions	53.35	76.75	QC	-	Goutier et al., 1999, p. 27	G ca. 2716–2699	Goutier et al., 1999, p. 12, 27	-

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
23	Stillwater Complex (+norite)	45.39	110.00	U-NW	-	Premo et al., 1990	Uz 2713–2703	Premo et al., 1990	Stillwater Complex (#23A)
24	Chan Formation (me)	62.62	114.32	NT	SSE	MacLachlan and Helmstaedt, 1995	>2712	MacLachlan and Helmstaedt, 1995, p. 618	Chan Formation (v); (?) Patterson Lake - Swarm 1 (d) (#19)
25	Rowan Lake, dyke (mafic)	51.07	94.11	ON	-	Corfu and Andrews, 1987, p. 1316	Uz \geq 2705 \pm 8	Corfu and Andrews, 1987, p. 1316–1317	-
26	Step 'nduck (sd; me)	62.95	112.25	NT	SE	Lambert et al., 1992	ca. 2700	Lambert et al., 1992	-
27	Eastern Lac Seul (mafic) (me; de)	50.30	91.90	ON	N	Breaks, 1991, p. 261	G >2692	Breaks, 1991, p. 261	-
28	Ely Greenstone	47.87	92.00	U-NC	-	Schulz, 1980, p. 226	R 2690 \pm 80	Jahn and Murthy, 1975	Upper Ely Greenstone Member (s, v)
29	Patterson Lake - Swarm 2	62.88	113.05	NT	N-NE	Bleeker et al., 1999	Uz 2687 \pm 1	Bleeker et al., 1999	-
30	Patterson Lake - Swarm 3	62.88	113.05	NT	N-NW	Bleeker et al., 1999	G 2684–2661	Bleeker et al., 1999	-
31	Owl Creek Mountains	43.45	108.20	U-NW	ESE	Kirkwood, 2000	Ub 2679 \pm 4	Kirkwood, 2000	-
32	Newton Lake Formation	47.95	91.75	U-NC	-	Schulz, 1980, p. 233	R 2650 \pm 110	Jahn and Murthy, 1975	(?) Newton Lake Formation (s, v)
33	Post-Kam Group (me)	62.62	114.32	NT	N-NE	MacLachlan and Helmstaedt, 1995; Henderson and Brown, 1966, p. 41–44; Henderson and Brown, 1967, unit 8	(?) 2642–2620	MacLachlan and Helmstaedt, 1995, p. 618	-
34	Dumbell Island (me; de) (>1)	56.65	61.28	LB	-	Ryan, 1995	in part Uz 2559 +10/-8	Connelly and Ryan, 1996	-
35	Ptarmigan	58.00	71.30	QC	NNE	Buchan et al., 1998	Uzb 2505 \pm 2	Buchan et al., 1998	-
PALEOPROTEROZOIC									
36	Ilorleeraq (me; de)	70.08	50.08	GR	SE	Garde and Steinfeldt, 1999	T 2500–1600	-	-
37	Wellington Inlier	69.77	107.00	NU	SE	Rainbird and LeCheminant, 2002	T 2500–1600; (?) ca. 1700	J.E. French in Rainbird and LeCheminant, 2002	(?) Hadley Bay (d) (#106)
38	Kistigan Lake (Molson)	54.00	92.50	ON, MB	NNE	Osmani, 1991; Scoates and Macek, 1978; Fahrig and West, 1986	T 2500–1600; (?) = #98 (U ca. 1880)	-	(?) Molson (d) (#98)
39	Lac Niquit	60.75	77.30	QC	N	Togola, 1992, p. 20	T 2500–1600	-	(?) Povungnituk Group (v)
40	Sutton Inlier	54.42	84.75	ON	N–NW	Bostock, 1971	T 2500–1600	-	(?) Sutton Inlier (s) (#40A)
41	Mirond Lake (de)	55.16 55.82	102.87 104.38	SK	-	Ashton et al., 1999, p. 190; Chiarenzelli et al., 1998	Uz 2488 \pm 12	Ashton et al., 1999, p. 198, 204	-

No.	SWARM NAME	LAT (*N)	LONG (*W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
42	Matachewan [Hearst] (≥ 1)	48.50	82.50	QC, ON	NW–NNE (fan)	Bates and Halls, 1991; Phinney and Halls, 2001; Chagnon, 1968, p. 75–76 and accompanying map 1643; Ontario Geological Survey, 1991	Ub 2473 +16/–9; Ubz 2446 \pm 3	Heaman, 1997	Dollyberry (v) (#42A); Elise Mountain and Copper Cliff (v) (#42B); Thessalon (v) (#42C); East Bull Lake (i) (#42D); Streich dyke and other gabbronorite dykes (Vogel et al., 1998)
43	Mistassini	52.50	73.50	QC	NW–NNW (fan)	Fahrig et al., 1986	U ca. 2470	Heaman, 1994	-
44	Kaminak (me in part)	62.30	95.00	NU	N–NE	Christie et al., 1975	U ca. 2450	Heaman, 1994	-
45	Du Chef (me; de)	49.50	74.00	QC	NE	Ciesielski and Madore, 1989	U 2408 \pm 3	Krogh, 1994	-
46	Ntshuku	56.00	64.70	QC	-	Girard, 1990	= #46B (Uz ca. 2332)	S. Bowring <i>in</i> Girard, 1990	Ntshuku Complex (v) (#46A); Pallatin Complex (s) (#46B)
47	Kikkertavak (me and de toward Makkovik Province) (≥ 1)	55.00	61.00	LB	NE–NW	Ermanovics, 1993, p. 58–63 and accompanying maps 1667A–1669A	Ub 2235 \pm 2	Cadman et al., 1993	-
48	Malley [Contwoyto]	64.00	109.50	NT, NU	NE	Frith, 1987, p. 36	U ca. 2230	LeCheminant and van Breemen, 1994	-
49	Ungava (entries 50–52)	-	-	-	WNW–SSW (fan)	Buchan et al., 1998	ca. 2230–2210	Buchan et al., 1998	#50A
50	*Senneterre [Preissac, Abitibi]	48.50	77.25	QC	NNE	Buchan et al., 1993	U 2216 +8/–4	J.K. Mortensen <i>in</i> Buchan et al., 1996a	Nipissing Diabase (s) (#50A)
51	*Maguire	58.00	73.00	QC	E	Buchan et al., 1998	Ub 2229 +35/–20	Buchan et al., 1998	-
52	*Klotz [New Quebec]	60.30	73.00	QC	ESE	Buchan et al., 1998	Uzb 2210 \pm 1	Buchan et al., 1998	-
53	Early E–W (AD1, Iggavik, Kuanitic)	61.53	48.50	GR	E–ESE	Bridgwater et al., 1976, p. 69	>#54; T 2500–1600	-	-
54	MD1 and BN1 (BN1 = norite) (AD2, Iggavik, Kuanitic, High Mg-1)	65.00	51.00	GR	NNE–NNW	Bridgwater et al., 1995; Hall and Hughes, 1987	Uz 2214 \pm 10; >#55; <#53	Nutman et al., 1995	-
55	MD2 and BN2 (BN2 = norite) (AD3, Iggavik, Kuanitic, High Mg-2)	65.30	51.50	GR	ENE–NE	Bridgwater et al., 1976; Hall and Hughes, 1987	2200–1900; >#56; <#54	-	(?) Kangamiut NNE (d) (#80)
56	MD3 (AD4, Iggavik, Kuanitic)	63.30	50.50	GR	SE–E	Bridgwater et al., 1976; Hall and Hughes, 1987	2200–1900; <#55	-	-
57	MacKay ('X')	64.00	110.00	NT, NU	ENE–E	Fahrig and West, 1986	U ca. 2210	LeCheminant and van Breemen, 1994	-
58	Indin NW	64.00	115.00	NT	SE	Henderson, 1985; Pehrsson and Kerswill, 1997a	ca. 2200	Fahrig and West, 1986	-
59	Indin NE	64.00	115.00	NT	NE	Henderson, 1985; Pehrsson and Kerswill, 1997b	ca. 2200	Fahrig and West, 1986	-
60	Dogrib	63.00	113.00	NT	ENE	McGlynn and Irving, 1975	Ub 2190	LeCheminant et al., 1997	-

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
61	Tulemalu-MacQuoid (me and de in northeast)	62.60	98.00	NU	ESE-ENE	Fahrig et al., 1984; Tella et al., 2001	Ub 2190	LeCheminant et al., 1997	-
62	Easter Island, dyke (Simpson Island)	61.75	112.80	NT	ENE	Irving et al., 1984	K 2170	Leech et al., 1963, p. 61	-
63	Payne River	60.50	71.50	QC	SE	Madore and Larbi, 2000	U ca. 2170-2160	S. Pehrsson, pers. comm., 2000	-
64	Biscotasing [Preissac, Abitibi]	48.00	81.30	ON, QC	NE	Buchan et al., 1993; H.C. Halls, pers. comm., 2002	Ubz 2167 ± 2	Buchan et al., 1993	-
65	Wind River Range	42.80	109.20	U-NW	NE	Spall, 1971; Snyder et al., 1989	2165-1880	Spall, 1971; Harlan et al., 2000	-
66	Avayalik (me in part; de in west) (>1)	60.00	64.30	LB	E-N	Wardle et al., 1992; Van Kranendonk et al., 1993	Ub 2142 ± 2; Uz 1834 +7/-3	Connelly, 2001; Scott, 1995	-
67	Napaktok (Hebron, Domes) (me in part; de in west) (>1)	58.60	63.00	LB	E-SE	Morgan, 1975; Ermanovics et al., 1989	G <2134 ± 3; K 2480	Hamilton et al., 1998, p. 25-26; Wanless et al., 1974, p. 56	(?) Tikkigatsiak (d) (#68)
68	Tikkigatsiak	57.24	61.85	LB	ENE	Hamilton et al., 1998	Uzb 2121 ± 1.5	Hamilton et al., 1998	-
69	Marathon (≥1)	49.50	87.00	ON	N	Buchan et al., 1996a	Ub 2121 +14/-7; 2101 ± 2	Buchan et al., 1996a; Hamilton et al., 2002	-
70	Griffin (fd)	60.83	98.50	NU	NE	Aspler et al., 2002	= #70A (Ub 2111 ± 1)	Heaman and LeCheminant, 1993	Griffin Gabbro [Hurwitz Gabbro] (s) (#70A)
71	Snowy Pass	41.25	107.00	U-NW	-	Houston et al., 1993, p. 141, 155	= Snowy Pass (i) (Uz 2092 ± 9)	Premo and Van Schmus, 1989	Snowy Pass (s, i)
72	Cauchon Lake [Molson]	55.50	96.50	MB	NE-ENE	Halls and Heaman, 2000	Ubz 2091 ± 2; Uz 2072 ± 3	Halls and Heaman, 2000; Heaman and Corkery, 1996	-
73	Fort Frances (Kenora-Kabetogama)	47.30	95.00	ON, U-NC, MB	SE	Halls, 1986; aeromagnetic interpretation herein using Chandler, 1991	Ubz 2076 +5/-4	Buchan et al., 1996a; Wirth et al., 1995	-
74	Lac Esprit N	53.50	77.50	QC	S	Goutier et al., 1999; Ernst et al., 1998	Ub 2069 ± 1	Hamilton et al., 2001	-
75	Lac Esprit NW	53.50	77.50	QC	SE	Goutier et al., 1999; Ernst et al., 1998	M ca. 2069	Ernst et al., 1998	-
76	Minnesota River [Franklin]	44.53	94.88	U-NC	ESE	Cavanaugh, 1983	Uz 2067 ± 1	M.D. Schmitz, pers. comm., 2001	(?) Fort Frances (d) (#73)
77	Kapuskasing (≥1)	48.10	82.80	ON	ENE	Halls and Palmer, 1990	A ca. 2050	Lee et al., 1990	-
78	Igluualiksuk (me)	57.04	62.10	LB	SE	Hamilton et al., 1998	Ub ca. 2045 ± 3	Hamilton et al., 1998	-
79	Kangâmiut E (norite) (>1)	66.30	51.00	GR	E	Escher et al., 1975; Bridgwater et al., 1995	some dykes >#80; A 1981 ± 26	Willigers et al., 1999	(?) BN2 (d) (see #55)
80	Kangâmiut NNE (me; de in north) (>1)	65.80	52.50	GR	NNE-NE	Escher et al., 1975; Allaart, 1982	some dykes <#79; Uz ca. 2040; A 2528-2021	Nutman et al., 1999; Willigers et al., 1999	-

No.	SWARM NAME	LAT (*N)	LONG (*W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
81	Hearne [McKinley Point]	62.20	112.40	NT	ENE	Henderson, 1985	Ub 2038 ± 3	Pehrsson et al., 1993	-
82	Lac de Gras	64.50	110.20	NT, NU	N–NNE	LeCheminant, 1994	U 2030–2023	LeCheminant and van Breemen, 1994	-
83	<u>Richmond Gulf</u>	56.20	76.20	QC	E, NNE	Chandler, 1988, p. 26–27, Fig. 1	G ≤ 2025	Chandler and Parrish, 1989	-
84	Kennedy [Cherry Creek] (+peridotite) (me and de in part)	42.20	105.50	U-NW	NE–ENE	Cox et al., 2000	Uz 2011 ± 1 (diabase); 2005 ± 7 (peridotite)	Cox et al., 2000	-
85	Pickle Crow	51.50	90.10	ON	SSE	Osmani, 1991, p. 665; Buchan et al., 2003	A ca. 1880	Buchan et al., 2003	(?) Molson (d) (#98)
86	Beechey (Bathurst)	66.50	107.00	NU	SSE	Frith, 1982	ca. 2000	Fahrig and West, 1986	-
87	<u>Granite Falls</u>	44.83	95.57	U-NC	NE	Hanson and Himmelberg, 1967	ca. 2000	Hanson and Himmelberg, 1967; Horan et al., 1987	-
88	Minto	57.30	75.00	QC	ESE	Buchan et al., 1998	Uzb 1998 ± 1	Buchan et al., 1998	-
89	Watts Group (sd)	61.83	74.08	QC	-	Scott et al., 1989	= Watts Group metagabbro (see #89A) (Uz 1998 ± 1)	Parrish, 1989	Watts Group (s, v) (#89A) of Purtuniqu ophiolite
90	<u>Post-Thompson Lake Formation</u>	55.23	66.12	QC	-	Laurent, 1995, p. 6	= Chance Lake-Retty Lake (s) (P 1930 ± 49)	Rohon et al., 1993	Chance Lake-Retty Lake (Montagnais) (s); Willbob Formation (v)
91	<u>Post-DTG Suite</u>	60.20	64.50	LB	-	Van Kranendonk et al., 1993, p. 330	≤ DTQ Suite (ca. 1910)	Van Kranendonk et al., 1993	-
92	Inukjuak	58.50	77.50	QC	SE	Legault et al., 1994	ca. 1900	Legault et al., 1994	Eskimo Formation (v), Persillon Formation (v), and Nastapoka Group (v) (#92A)
93	Wabigoon	49.67	91.75	ON	ESE	Osmani, 1991	ca. 1900	Fahrig and West, 1986	-
94	Chipman (me; de)	59.45	105.10	SK	-	Hanmer, 1997	ca. 1895	Flowers et al., 2002	-
95	Ear Falls	50.80	93.40	ON	SE	Osmani, 1991, p. 665	M (?) 1900–1700	Osmani, 1991, p. 665	-
96	Fishtrap Lake	64.93	118.52	NT	N	Reichenbach, 1991	ca. 1898	Reichenbach, 1991	Fishtrap Lake (s; sheet-like intrusions); Bloom Basalt
97	Smallwood Lake	65.60	118.00	NT	N	Hildebrand, 1984, p. 34	ca. 1900–1700	-	-
98	Molson	55.00	97.50	MB	NNE–NE	Halls and Heaman, 2000; Scoates and Macek, 1978	Uz 1884 ± 2 – 1877 +7/-4	Heaman et al., 1986; Halls and Heaman, 2000	Fox River (s) (#98A); (?) Pickle Crow (d) (#85); (?) Kistigan Lake (d) (#38); Setting Lake (s), Thompson Pit (d) (M. Hamilton, pers. comm., 2002)
99	Echo Lake Pluton (de) (2)	54.87	100.97	MB	-	Whalen, 1993	ca. 1860–1826	Whalen et al., 1999, p. 230–231	-
100	Kazan-Thirty Mile (me and de in part)	62.25 63.60	99.80 96.60	NU	NNE–E	Eade, 1986; Cattroll, 1978	G >ca. 1832	LeCheminant et al., 1979, p. 321	-

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
101	Sparrow	61.30	110.00	SK, AB, NT	SE-ESE	McGlynn et al., 1974; Fahrig and West, 1986	U 1827 ± 4	Bostock and van Breemen, 1992	-
102	<u>Wanetlo Lake</u> (+lamprophyre)	48.26	90.78	ON, U-NC	SSE	Harris, 1968, p. 18	K 1800	Goldich et al., 1961	-
103	North Channel	46.40	83.50	ON	E-ESE	Fahrig and West, 1986	ca. 1800	Fahrig and West, 1986	-
104	<u>Niakok</u>	57.40	61.67	LB	SSE	Ermanovics and Van Kranendonk, 1995	Ub ca. 1775	M. Hamilton, pers. comm., 2001	-
105	McRae Lake	64.00	98.54	NU	NNE	LeCheminant et al., 1980	Ub ca. 1750	LeCheminant, 1992	-
106	Hadley Bay	72.00	108.20	NU	E	LeCheminant et al., 1996, p. 9	Ub ca. 1747	L.M. Heaman <i>in</i> LeCheminant et al., 1996	-
107	Cleaver	65.60	118.20	NT	ESE	Hildebrand, 1984	G 1783-1663; >#114	Wynne et al., 1995; Kotzer et al., 1992, p. 1484	-
108	Otish (fd)	52.35	71.10	QC	variable	Chown and Archambault, 1987	K 1718-1591; S 1710 ± 30	Stevens et al., 1982; C. Brooks <i>in</i> Ruhlmann et al., 1986	Otish (s) (#108A)
109	Dease	67.50	119.00	NT, NU	SE	Fahrig and West, 1986; Ross and Kerans, 1989	<Narakay (v) (Uz 1663 ± 8)	Bowring and Ross, 1985	-
110	<u>Little Grady Island</u>	53.80	56.43	LB	E	Murthy et al., 1989b	G (?) ca. 1650	Murthy et al., 1989b	-
111	Melville Bugt	73.00	55.00	GR	SE	Nielsen, 1990	R 1645 ± 35	Kalsbeek and Taylor, 1986	-
MESOPROTEROZOIC									
112	PP (Plagioclase-Phyric, PD, MD3b)	61.75	48.60	GR	ESE	Berthelsen and Henriksen, 1975, p. 104; Higgins, 1990, p. 19	K 1630-1350	Bridgwater et al., 1976, p. 72	-
113	North West River	53.50	60.60	LB	ENE	Wardle and Ryan, 1996	G 1622-1010	Wardle et al., 1990	Mealy (d) (#144); (?) Naskaupi (s) (#144A)
114	Western Channel Diabase	66.40	117.70	NT	NNE	Irving et al., 1972; Hildebrand, 1982	T 1600-1000; <#107 (G 1783- 1663)	Kotzer et al., 1992, p. 1484	Western Channel Diabase (s; sheet-like intrusions)
115	<u>Aitkin County</u>	46.40	93.20	U-NC	SE	Minnesota Geological Survey, 1981	T 1600-1000	Minnesota Geological Survey, 1981	-
116	Uranium City (Beaverfodge)	59.60	109.00	SK	E	Hale, 1954; Evans, 1995	K 1490 ± 100	Fraser et al., 1970; Wanless et al., 1965, p. 72-73	Martin Formation (s)
117	Tobacco Root - Group A	45.39	112.00	U-NW	ESE	S. Harlan, pers. comm., 1994; Wooden et al., 1978	Uz ca. 1460	Chamberlain and Frost, 1995	Moyie (Purcell) (s) (#117A); Purcell (v) (#117B)
118	<u>Granite Mountains</u>	42.60	107.50	U-NW	NE	Snyder et al., 1989	Uz ca. 1460	Chamberlain and Frost, 1995	-
119	Shabogamo	52.30	66.00	LB	-	Gower et al., 1990, p. 491	= #119A (Uz 1459 +23/-22)	Connelly and Heaman, 1993	Shabogamo Gabbro (s) (#119A); Michael Gabbro (sheet-like intrusions) (#120A); Indian Harbour (d) (#120)

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120	Indian Harbour	54.45	57.22	LB	E	Murthy and Deutsch, 1972	= #120A (Uz 1426 ± 6)	Schärer et al., 1986, p. 442	Michael Gabbro (sheet-like intrusions) (#120A); Shabogamo Gabbro (s) (#119A)
121	Hart River	64.40	134.40	YT	variable	Abbott, 1997, p. 52–53	= #121A (U 1380)	M.L. Bevier <i>in</i> Abbott, 1997	Hart River (s) (#121A); Hart River (v)
122	Nipisso (gabbro-norite)	50.78	65.46	QC	ESE	Chevé et al., 1999, p. 31–32	G 1371–1030	Gobeil et al., 1999, p. 45	-
123	Lac Volant (gabbro-norite)	50.78	65.73	QC	NE–N	Perreault et al., 1996; Gobeil et al., 1999, p. 22, 38, 53	Uz 1351 ± 6	N. Machado <i>in</i> Gobeil et al., 1999, p. 38	-
124	Korok	58.22	64.74	QC	SSE	Fahrig, 1986	ca. 1350	Fahrig, 1986	Korok (sheet-like intrusions)
125	Queensborough (mafic)	44.57	77.40	ON	-	Smith and Harris, 1996	1350–1270	Easton, 1992	Queensborough (o) (#125A)
126	Nukasusutok (me; de)	56.36	61.23	LB	-	Cadman et al., 1999	Uz 1328–1316	Cadman et al., 1999	(?) Nain Plutonic Suite (i)
127	Lac Arthur	51.10	62.35	QC	E	Martignole et al., 1992a	ca. 1300	Martignole et al., 1992a, 1994	-
128	Schefferville	54.80	66.80	QC	N	Fahrig, 1976	ca. 1300	Fahrig, 1976	-
129	Gardar (entries 130–135)	-	-	-	-	-	ca. 1300–1150	-	Eriksfjord Formation (v) (#129A)
130	*Gardar Southeast Greenland	62.00	42.30	GR	E	Allaart, 1975	1300–1150	-	-
131	*Gardar Big Feldspar (BFD)	61.40	48.04	GR	E–NE	Berthelsen and Hendriksen, 1975, p. 126–127	G >#132 (ca. 1280)	-	-
132	*Gardar BD0	60.81	46.51	GR	E–ESE	Upton and Emeleus, 1987, p. 454–455	ca. 1280	Heaman and Upton <i>in</i> Cadman et al., 1993	Nain-LP (d) (#138) (Buchan et al., 1996b)
133	*Gardar BD1, BD2, BD3 (>1)	61.40	48.50	GR	ENE–NE	Upton and Emeleus, 1987, p. 454–455	ca. 1280–1150	Blaxland et al., 1978	(?) Harp (d) (#139)
134	*Gardar Giant Dykes of Tugtutôq	60.83	46.31	GR	ENE	Upton and Thomas, 1980; Upton et al., 1985	Ub 1163 ± 2	Buchan et al., 2001	-
135	*Gardar Giant Dykes of Isortoq	61.00	47.25	GR	ENE	Bridgwater and Coe, 1970	(?) ca. 1163	-	-
136	Belmont Domain (de) (>1)	44.90	77.70	ON	-	Smith and Holm, 1990	1300–1100	Smith and Holm, 1990	-
137	Nain-HP	56.25	61.40	LB	N	Wiebe, 1985	G >#138; R 1276 ± 23; Ub >1293	Carlson et al., 1993; Hamilton, pers. comm., 2002	-
138	Nain-LP	56.50	61.50	LB	E	Wiebe, 1985	Ub 1280–1277	Buchan et al., 1996b	Gardar BD0 (d) (#132)
139	Harp [Shapio]	55.00	61.50	LB, QC	NE	Gower et al., 1990; Meyers and Emslie, 1977	Ubz 1273 ± 1	Cadman et al., 1993	(?) Gardar BD1, BD2, BD3 (d) (#133)
140	Bear River	64.85	134.00	YT	variable	Schwab and Thorkelson, 2001	Ub ca. 1270	J.K. Mortensen <i>in</i> Schwab and Thorkelson, 2001	(?) Mackenzie (d) (#142)
141	Nutak	57.52	61.75	LB	variable	Ermanovics and Van Kranendonk, 1995	U ca. 1268	C. Roddick <i>in</i> Cadman et al., 1993, p. 1499	-

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142	Mackenzie	66.00	111.00	ON, MB, SK, NT, NU	S-ESE (fan)	Fahrig and West, 1986; Fahrig, 1987; Baragar et al., 1996	Ub 1267 ± 2	LeCheminant and Heaman, 1989	Muskox (i) (#142A); Coppermine (v) (#142B); Ekalulia (v) (#142C); Christie Bay (s) (#142D); Nauyat (v) (#142E); Hansen (v) (#142F); Tremblay (s) (#142G); Goding Bay (s) (#142H)
143	'305'	65.00	110.00	NT, NU	SE	Kjarsgaard and Wyllie, 1993; LeCheminant, 1994	M ca. 1250	K.L. Buchan <i>in</i> LeCheminant, 1994	-
144	Mealy [Lake Melville]	53.40	59.00	LB	ENE	Emslie et al., 1984	Ub 1250 ± 2	Hamilton and Emslie, 1997	(?) Naskaupi (s) (#144A); North West River (d) (#113)
145	Lac Le Doré (Suite mafique de Lillian) (me)	51.40	61.50	QC	E, NE	Trzcienski and Verpaelst, 1998; Verpaelst et al., 1997; Madore et al., 1997; air photo interpretation herein	G < Olomane Suite (U 1240)	Indares and Martignole, 1993	Lillian Mafic Suite (s)
146	Sudbury (me and de southeast of Grenville Front)	47.00	81.50	QC, ON	SE	Palmer et al., 1977; Ketchum and Davidson, 1998	Ub 1238 ± 4; Ub 1235 +7/-3	Krogh et al., 1987; Dudas et al., 1994	-
147	Davy	50.90	62.90	QC	-	Martignole et al., 1992b	= #147A (Uzb 1177 +5/-4)	Martignole et al., 1994, p. 302-304	Davy Group (s) (#147A)
148	Parry Island (de)	45.20	80.15	ON	-	Wodicka et al., 1996; Ketchum and Davidson, 1998	Ubz ca. 1170-1150	Ketchum and Davidson, 1998; Wodicka et al., 1996	-
149	Kingston	44.40	76.25	U-NE, ON	SSE	Wynne-Edwards, 1962	Ub ca. 1160	S.J. Pehrsson and S. Kamo <i>in</i> Easton and Davidson, 1994, p. 74	-
150	Saguenay - Amphibolite II (de)	48.42	70.75	QC	-	Dimroth et al., 1981; Roy et al., 1986	G > #151A (U 1157)	Woussen et al., 1986; Higgins and van Breemen, 1992	-
151	Saguenay - Amphibolite III (me)	48.40	71.15	QC	SSW, SE	Dimroth et al., 1981; Roy et al., 1986	(?) = #151A (U ca. 1157-1142)	Woussen et al., 1986; Higgins and van Breemen, 1992	(?) Lac-Saint-Jean Anorthosite (#151A)
152	Ruisseau Larouche	49.05	72.20	QC	variable	Berrangé, 1959, p. 7	G (?) = #151A (U 1157-1142)	Berrangé, 1959, p. 7; Higgins and van Breemen, 1992	(?) Lac-Saint-Jean Anorthosite (#151A)
153	Rivière Mistassibi (>1)	49.21	72.12	QC	variable	Berrangé, 1959, p. 9	G ≤ #151A (U 1157-1142)	Berrangé, 1959, p. 9; Higgins and van Breemen, 1992	-
154	Le Tourniquet (gabbro- diorite)	48.52	71.47	QC	NNE	Jooste, 1958, p. 19-25	G ≤ #151A (U 1157-1142)	Jooste, 1958, p. 20; Higgins and van Breemen, 1992	-
155	Abitibi	48.00	82.00	QC, ON	NE-ESE (fan)	Ernst and Buchan, 1993	Ub 1141 ± 1	Krogh et al., 1987	McKellar Harbour lamprophyre (d) (Platt et al., 1983; Queen et al., 1996)

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156	Eye Dashwa	49.00	92.10	ON	ESE	Osmani, 1991	K ca. 1140	Hunt and Roddick, 1987	-
157	Keweenawan (entries 158-170)	-	-	-	-	-	1108-1085	Paces and Miller, 1993	Logan (s) (#157A); Duluth Complex (#157B); Mamainse Point (v) (#157C); North Shore (v) (#157D); Osler (v) (#157E); Michipicoten (v) (#157F); Cape Gargantua (v) (#157G); Portage Lake (v) (#157H); Chengwatana (v) (#157I); Mellen Complex (#157J); Powder Mill (v) (#157K); Coldwell Complex (#157L)
158	*Carlton County	46.60	92.60	U-NC	NNE	Green et al., 1987	1200-1100	Green et al., 1987	-
159	*Baraga (Marquette)	46.60	88.30	U-NC	E-ENE	Sims, 1992	G 1107-1098	Green et al., 1987	-
160	*Central Wisconsin	45.00	90.00	U-NC	ENE	Green et al., 1987; King, 1990	ca. 1100	Green et al., 1987	-
161	*Mellen Gogebic	46.00	91.00	U-NC	ENE	Green et al., 1987; King, 1990	ca. 1100	Green et al., 1987	-
162	*Thunder Bay (Pigeon River)	48.30	89.00	ON, U-NC	NE-ENE	Green et al., 1987	ca. 1100	Green et al., 1987	-
163	*Arrow River	48.20	89.66	ON	SE	Smith and Sutcliffe, 1989	G ca. 1100; <#162	Smith and Sutcliffe, 1989	-
164	*Ely-Moose Lake	47.83	91.67	U-NC	ENE	Green et al., 1987	ca. 1100	Green et al., 1987	-
165	*Pukaskwa [Gargantua]	48.10	85.90	ON	SE	C.J. Hale in Halls and Pesonen, 1982	G ca. 1100; K ca. 1050	York and Halls, 1969	-
166	*Copper Island	48.80	87.45	ON	E	Giguere, 1973	Keweenawan	Giguere, 1973	-
167	*Upson	46.43	90.46	U-NC	NNE	Tabet and Mangham, 1978, p. 4	Keweenawan	Tabet and Mangham, 1978, p. 4	-
168	*Duluth	46.79	92.14	U-NC	variable	Green et al., 1987	Keweenawan	Green et al., 1987	-
169	*Grand Portage	47.90	89.80	U-NC	variable	Green et al., 1987	Keweenawan	Green et al., 1987	-
170	*Gunflint Lake	48.07	91.00	U-NC	E	Hanson and Malhotra, 1971	K 1100-920	Hanson and Malhotra, 1971	-
171	Aillik	55.20	59.20	LB	ENE	Malpas et al., 1986	ca. 1100	Fahrig and Larochelle, 1972	-
NEOPROTEROZOIC									
172	Random Island	48.10	53.90	NF	N	Hayes and Rose, 1949	T 1000-544	Jenness, 1963	-
173	Proterozoic Rift-Related Tholeiitic (PRT) (me)	41.40 40.80 40.00 40.10	73.90 75.00 75.50 75.80	U-NE	NE-ENE	Goldberg and Butler, 1990; Ratcliffe, 1987	T 1000-544	-	-
174	Post-Jeffers Formation (fd; de)	45.45	64.27	NS	NE	Pe-Piper and Piper, 1987, p. 45	T 1000-544	Pe-Piper and Piper, 1987	(s)

No.	SWARM NAME	LAT (*N)	LONG (*W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
175	Black Bay (me)	51.78	56.25	LB	variable	Gower et al., 1994, p. 359–360; Bostock, 1983	K 931 ± 32	Wanless et al., 1974, p. 60	-
176	Minden (me)	44.81	78.78	ON	NNE–NNW	Easton, 1992, p. 864–865	K ≤ 902 ± 12 (trachyandesite)	Easton and Roddick, 1988	-
177	Gunbarrel (entries 178–181)	-	-	-	N–SE (fan)	Park et al., 1995b	ca. 779	LeCheminant and Heaman, 1994	#179A, B; #181A, B
178	*Hottah (sheet-like intrusions)	65.00	117.50	NT	NE	Park et al., 1995a	Ub 779 ± 2	LeCheminant and Heaman, 1994	-
179	*Mackenzie Mountains	65.20	129.00	YT, NT	N	Park et al., 1995b	= #179A (Ub 779 ± 2)	LeCheminant and Heaman, 1994	Mackenzie Mountains (s) (#179A); Mackenzie Mountains (v) (#179B)
180	*MacDonald	58.30	125.00	BC	NNW–NNE	Taylor, 1971	Ub 779 ± 2	LeCheminant and Heaman, 1994	-
181	*Tobacco Root - Group B	45.68	112.00	U-NW	ESE	Harlan et al., 1997; Wooden et al., 1978	A 780–770	Harlan et al., 1997	Wolf Creek (s) (#181A); Huckleberry and Irene (v) (#181B)
182	Mount Harper Complex (fd)	64.66	139.97	YT	SSE	Thompson et al., 1992, unit PHVIs	= Mount Harper Complex (v) (Uz 751 +26/-18)	Roots and Parrish, 1988	Mount Harper Complex (s, v)
183	Blair River Inlier (me)	47.00	60.70	NS	-	Barr et al., 2000	T 723–544	Barr et al., 2000	-
184	Franklin-Thule (entries 185–188)	-	-	-	SE–NE (fan)	-	ca. 723	-	#185A–E, #186A; (?) Damley Bay-Lasard River (d) (#382); (?) Brock Inlier (s) (#382A); (?) Bebensee Lake (d) (#369)
185	*Franklin [Borden]	70.00	75.00	NT, NU	SE–NE (fan)	Fahrig and West, 1986; Fahrig, 1987; Pehrsson and Buchan, 1999	Ubz 723 +4/-2	Heaman et al., 1992; Pehrsson and Buchan, 1999	Victoria Island (s) (#185A); Natkusiak (v) (#185B); Coronation (s) (#185C); Dybbol (s) (#185D); Banks Island (s) (#185E)
186	*Thule	77.00	70.00	GR	ESE	Dawes, 1991	K ca. 730–640	Dawes and Rex, 1986	Steensby Land (s) (#186A) (Dawes, 1991)
187	*Aston	73.50	95.00	NU	NE	Stewart, 1987	M ca. 723	Jones and Fahrig, 1978	-
188	*Strathcona Sound	73.00	83.50	NU	S–SSE	Fahrig and West, 1986	M ca. 723	Christie and Fahrig, 1983	-
189	Port au Saumon	47.76	69.95	QC	NE	Rondot, 1979; La Flèche et al., 1993	K ca. 700	Rondot, 1979	-
190	Post-Harbour Main Group	47.46 47.72	53.21 52.82	NF	-	Nixon and Papezik, 1979, p. 172; Seguin et al., 1982	≤ Harbour Main Group (Uz 631–586)	Nixon and Papezik, 1979, p. 172; Krogh et al., 1988	-
191	Georgeville Group (me)	45.63 45.84 45.47	62.10 62.01 62.18	NS	-	Murphy et al., 1991, p. 11, 14, 17	(?) = Georgeville Group (ca. 618–610)	Murphy et al., 1991, p. 7	(?) Georgeville Group (v)

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192	Long Range [Trunmore Bay]	50.50 53.50	56.50 57.00	NF, LB	NE–NNE	Kamo et al., 1989; Colman-Sadd et al., 1990	Uzb 615 ± 2	Kamo et al., 1989	(?) Saint-Augustin (d) (#258) (Kamo and Gower, 1994, Fig. 1); (?) Lighthouse Cove (v) (Bostock, 1983, p. 35, 39)
193	Grenville-Adirondack (entries 194–196)	-	-	-	WNW–SSW (fan)	Davidson, 1995, p. 16–17; Kumarapeli, 1993	ca. 590	-	Tibbit Hill (v)
194	* Grenville	46.00	77.00	QC, ON	ESE	St. Seymour and Kumarapeli, 1995; Fahrig and West, 1986	Ubz 590 +2/–1	Kamo et al., 1995	-
195	* Adirondack	44.00	74.00	U-NE	SSW–W	Coish and Sinton, 1992; St. Seymour and Kumarapeli, 1995	A 588–542	Isachsen et al., 1988	-
196	* Rideau	44.40	75.90	U-NE, ON	NE	Wynne-Edwards, 1963	ca. 575	Fahrig and West, 1986	-
197	Clarence Head	76.70	78.00	NU	N	Frisch, 1984	K 580 ± 36	Frisch, 1988	-
198	Lac Pommeroy	47.10	78.70	QC	SE	Fahrig and West, 1986	ca. 575	Fahrig and West, 1986	-
199	Chateau Bay	51.98	55.87	LB	E	Gower et al., 1994, p. 364; Bostock, 1983	K 569 ± 22	Wanless et al., 1974, p. 60	(?) Lighthouse Cove (v) (Gower et al., 1994, p. 364)
200	Post-Whittle Hill Sandstone	47.72	58.06	NF	-	Dubé et al., 1995, p. 425–428; Valverde-Vaquero, 1997, Table 3.3, p. 245	Uz 566 +2/–7	Dubé et al., 1995, p. 425–428	Sandbank Point metagabbro
201	Côte-Nord (>1)	50.00	66.90	QC	NNE–ENE	Faessler, 1942, p. 17–19, map 503	G in part <Sept-Îles Anorthosite (Uz 565 ± 4)	Faessler, 1942, map 503; Higgins and van Breemen, 1998	-
202	Skinner Cove (fd) (+trachyte)	49.52	58.08	NF	-	McCausland and Hodych, 1998	Uz 550 +3/–2	McCausland et al., 1997	Skinner Cove (v)
PHANEROZOIC									
203	Thetford Mines-Orford (+sd) (>1)	46.00 45.80 45.25	71.23 71.60 72.28	QC	-	St-Julien, 1987, p. 43; Gauthier, 1988; Laurent, 1977; Huot et al., 2002	T 544–443	-	Thetford Mines and Orford (o) (#203A)
204	Lushs Bight (sd)	49.55	55.68	NF	variable	Kean et al., 1995; Strong, 1972	T 544–443	Kean, 1981	Lushs Bight Group (v)
205	Point Rouse (sd)	50.00	56.10	NF	variable	Kidd et al., 1978	T 544–443	Kean, 1981	Point Rouse (o)
206	Sleepy Cove	49.65	54.78	NF	-	Williams and Payne, 1975	T 544–443	Kean, 1981	Sleepy Cove Group (v)
207	Old Cabin	63.60	130.80	YT	-	Cecile, 1998	T 544–418	-	Old Cabin Formation (s, v) (#207A)
208	Loughlins Hill	47.00	55.50	NF	-	O'Brien et al., 1977, p. 12	T 544–253	-	(?) Loughlins Hill gabbro
209	Slate Creek Subterranean	67.02	153.70	AK	-	Nelson and Grybeck, 1980	T ≤ 544	-	(s)
210	Mont Albert	48.95	66.25	QC	E	Beaudin, 1980	T ≤ 544	-	-
211	Post-Money Point Group (de)	47.03	60.39	NS	E–NE	MacDonald and Smith, 1980, p. 11	T ≤ 544	-	-

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212	<u>Post-Kelvin Lake Formation</u>	45.82	60.40	NS	variable	Smith, 1978, p. 14, Fig. 1	T ≤ 544–509	Smith, 1978, p. 14	-
213	<u>Clifton</u>	48.17	53.72	NF	-	Jenness, 1963	T ≤ 544–489	Jenness, 1963	-
214	<u>Devils Cove</u>	50.02	56.03	NF	SSE	Kidd et al., 1978, p. 794	T ≤ 544–489	Kidd et al., 1978	-
215	<u>Post-Knights Brook Formation</u>	47.53	65.83	NB	-	van Staal and Rogers, 2000, sheet 5	T ≤ 544–489	-	-
216	<u>Arbuckle Brook Formation</u> (fd; me)	45.78	62.08	NS	-	Murphy et al., 1991, p. 50–54	= Arbuckle Brook Formation (v) (T 544–509)	Murphy et al., 1991, p. 51	Arbuckle Brook Formation (v)
217	<u>Burwell</u>	59.50	64.50	LB, QC	E–ENE	Van Kranendonk and Wardle, 1995; Wardle et al., 1994	K 524 ± 78	Taylor, 1979	-
218	<u>Post-Hyland Group</u>	64.50	139.00	YT	-	Abbott, 1997, p. 54	= #218A (Ub 518 ± 3)	J.K. Mortensen <i>in</i> Abbott, 1997	Post-Hyland Group (s) (#218A)
219	<u>Little Port</u> (sd)	49.45	58.15	NF	variable	Jenner et al., 1991	Uz 505 +3/-2	Jenner et al., 1991	Little Port Complex
220	<u>Saint-Fabien</u>	48.30	68.90	QC	-	La Flèche et al., 1993	T ≤ 499–489	La Flèche et al., 1993	-
221	<u>Uinta Mountains</u>	40.80	110.20	U-NW	ESE	Snyder et al., 1989	K 496 ± 26	Ritzma, 1980	-
222	<u>Pipestone Pond</u>	48.43	56.10	NF	-	Swinden and Collins, 1982, p. 194	Uz 494 ± 2	Dunning and Krogh, 1985	Pipestone Pond (o)
223	<u>Menzie Creek</u> (fd; me)	62.20	133.00	YT	-	Pigage, 1990	T ≥ 489–470	Abbott, 1997, p. 54	Menzie Creek Formation (v, s) (#223A)
224	<u>Moretons Harbour</u> (sd)	49.58	54.80	NF	variable	Williams and Payne, 1975	T 489–470	Williams and Payne, 1975	Moretons Harbour Group (v)
225	<u>Woodstock</u> (Lower Tetagouche)	46.15	67.50	NB	variable	David et al., 1991	T 489–450	-	-
226	<u>South Lake</u> (sd)	49.35	55.49	NF	variable	Lorenz and Fountain, 1982	T 489–443; U >486	MacLachlan and Dunning, 1998a	South Lake (i)
227	<u>Armstrong Brook</u>	47.53	66.51	NB	-	van Staal and Rogers, 2000, sheet 3 and notes	T 489–443	-	(?) Armstrong Brook (v) of Sormany Formation
228	<u>Glover Island</u> (sd)	48.67	57.88	NF	N	Knapp et al., 1979, p. 322	T 489–443	-	Glover Lake (o)
229	<u>Coal Brook</u>	47.92	58.92	NF	-	Brown, 1976	T (?) 489–443	-	(?) Long Range (o)
230	<u>Marmot Formation</u>	64.17	130.33	NT	-	Cecile, 1982, p. 15	T 489–418	Cecile, 1982, p. 15–17	Marmot Formation (s, v)
231	<u>Rivière Port-Daniel</u>	48.27	65.00	QC	SE	Bédard, 1986a, p. 3	T 489–418	Seguin <i>in</i> Bédard, 1986b, p. 1	-
232	<u>Placentia Bay</u>	46.90	54.20	NF	ESE	Greenough, 1984	T 489–360	Greenough, 1984	-
233	<u>Post-Bears Brook Formation</u> (me)	45.56	62.30	NS	-	Maehl, 1961, p. 89	T ≤ 489–443	Murphy et al., 1991, p. 64	-
234	<u>Restigouche County</u>	47.71	66.72	NB	variable	St. Peter, 1977, p. 35–42, and plates 75–49, 75–50; Potter, 1965	T ≤ 489–443	-	-
235	<u>Canada Bay</u>	50.72	56.12	NF	-	Betz, 1939, p. 23	T ≤ 489–443	Betz, 1939, p. 23	-

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236	<u>Hare Bay</u>	51.20	55.80	NF	ENE	Cooper, 1937	≤ Table Head Formation (T 489–443)	Williams and Smyth, 1983, p. 129	-
237	<u>Sunday Cove</u> (mafic)	49.53	55.83	NF	variable	Bostock, 1988	T ≤ 489–443	Bostock, 1988	-
238	<u>Duder Lake</u>	49.35	54.65	NF	NNE	Patrick, 1956	T ≤ 489–443	Patrick, 1956	-
239	<u>Lac Massawippi</u> (+diorite) (≥1)	45.18 45.40	72.08 71.93	QC	NE	de Römer, 1980, p. 54; St-Julien, 1963	T ≤ 489–443	-	(s)
240	<u>Northwest Miramichi River</u> (mafic)	47.20	66.10	NB	E–SSE	Wilson, 1993	T ≤ 489–418	Wilson, 1993, 1996	-
241	<u>Post-Nahant Gabbro</u>	42.42	70.91	U-NE	SE	Kaye, 1965; Ross, 1990	< Nahant Gabbro (ca. 490)	Ross, 1990, p. 143	-
242	<u>Coy Pond</u>	48.41	55.66	NF	-	Colman-Sadd, 1981, p. 41	Uz ca. 489	Dunning and Krogh, 1985	Coy Pond (o)
243	<u>Betts Cove</u> (sd)	49.82	55.80	NF	variable	Bédard et al., 1999	Uz 489 +3/-2	Dunning and Krogh, 1985	Betts Cove (o); Nippers Cove (o)
244	<u>Post-South Lake Igneous Complex</u>	49.29	55.50	NF	variable	Lorenz and Fountain, 1982	<486	MacLachlan and Dunning, 1998a	-
245	<u>Bay of Islands</u> (sd)	49.33 49.00	58.08 58.33	NF	variable	Jenner et al., 1991	Uzb 484 ± 5	Jenner et al., 1991	Bay of Islands (o) (#245A)
246	<u>Annieopsquotch</u> (sd)	48.28	57.62	NF	-	Dunning and Krogh, 1985; van Berkel and Currie, 1986	Uz ca. 480	Dunning and Krogh, 1985	Annieopsquotch (o) and related ophiolite complexes
247	<u>Hall Hill</u> ((?)sd)	49.43	56.07	NF	NNE	Swinden, 1987, p. 383–385; Bostock, 1988, p. 10	= Mansfield Cove Complex (i) (Uz 479 ± 3)	Dunning et al., 1987	Hall Hill (i); Mansfield Cove (i)
248	<u>Post-Victoria Lake Group</u> (≥1)	48.55	56.80	NF	-	Kean and Jayasinghe, 1980, p. 20	T <470–450	-	-
249	<u>Rivière Pozer</u> (+diorite)	46.12	70.70	QC	-	MacKay, 1921, p. 44; Cousineau, 1990, p. 59, 68	≥Magog Group (T 470–443)	Cousineau, 1990, p. 68	(?) Magog Group (s) (#249A)
250	<u>Port aux Basques-Grand Bay</u> (me)	47.57	59.03	NF	-	Valverde-Vaquero et al., 2000; Schofield et al., 1998, p. 326–327	474–472	Valverde-Vaquero et al., 2000, p. 1704–1705	-
251	<u>Herring Neck</u> (sd)	49.62	54.65	NF	variable	Williams and Payne, 1975	A 473–440	Williams et al., 1976	Herring Neck Group (v)
252	<u>Wild Bight Group</u>	49.40	55.44	NF	-	MacLachlan and Dunning, 1998b	Uzb ca. 472	MacLachlan and Dunning, 1998b	younger part of Wild Bight Group (s, v)
253	<u>Forty Mile Brook</u>	47.43	65.70	NB	-	Rogers et al., 1997, p. 115	= Forty Mile Brook (v) (U 468–465)	Rogers et al., 1997, Fig. 1	Forty Mile Brook (v) of Flat Landing Brook Formation
254	<u>Grandys Brook</u> (me)	47.70	58.80	NF	-	Valverde-Vaquero et al., 2000, p. 1696	465–410	Valverde-Vaquero et al., 2000, p. 1705	-
255	<u>Devereaux Formation</u> (sd)	47.83	65.74	NB	-	van Staal and Fyffe, 1995	Uz 464 ± 1	Sullivan et al., 1990	Devereaux (o)

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256	Boucher Brook Formation ((?)fd; me)	47.22 47.47	66.51 65.89	NB	-	Gower, 1997, p. 59–60; Sullivan and van Staal, 1996	Uz 459 ± 3	Sullivan and van Staal, 1996	(?) Boucher Brook Formation (v)
257	Cortlandt-Beemerville (alkaline lamprophyre, +rhyodacite)	41.20	74.00	U-NE	NE, SE	Ratcliffe, 1981	T 450–443	Ratcliffe, 1981, p. 330–331	-
258	Saint-Augustin	51.30	58.60	QC	N	Lavergne, 1986	R ca. 450	Davies, 1968	(?) Long Range (d) (#192) (Kamo and Gower, 1994, Fig. 1)
259	Castine Formation ((?)fd)	44.23	68.80	U-NE	-	Pinette and Osberg, 1989, p. 96	T 443–394	-	(?) Castine Formation (v)
260	Mont Alexandre	48.50	65.50	QC	ENE	Lachambre and Brisebois, 1995a	T 443–360	Brisebois et al., 1991	McKay (s); McKay Lake-Mont Alexandre (v) (#260A) (Bédard, 1986b)
261	Murdochville	48.95	65.50	QC	E	Doyon and Berger, 1997, p. 16–18	T 443–360	Doyon and Berger, 1997	-
262	Rivière Stewart	48.15	66.20	QC	-	Bédard, 1986a, p. 8, 24, 1986b, p. 1179	T 443–360	-	-
263	Runnymede	48.20	67.17	QC	E–ESE	Doyon and Berger, 1997, p. 7, 22	T 443–360	Doyon and Berger, 1997	-
264	New Carlisle	48.08	65.53	QC	N–NNE	Lachambre and Brisebois, 1995b	T 443–300	Brisebois et al., 1991	-
265	Mary Ann Lake	49.12	55.88	NF	variable	Hayes, 1951; Dickson, 1999, p. 336	T ≤ 443–418	-	-
266	Kingston Terrane ((?)sd; me)	45.25	66.25	NB	variable	Nance and Dallmeyer, 1993; Barr et al., 1999	ca. 435–410	Barr et al., 1999	-
267	Trinity (sd)	41.10	122.33	U-NW	-	Brouxel and Lapierre, 1988	Uz 431–398	Metcalf and Wallin, 2000	Trinity (o) (#267A)
268	Post-Western Head Granite (mafic) (>1)	47.68	58.14	NF	-	Valverde-Vaquero, 1997, p. 52, 62–66	431–420	Valverde-Vaquero, 1997	-
269	Harbour le Cou Group (me; de)	47.60	58.78	NF	-	Schofield et al., 1998, p. 326–327	T ≥ 424–418	Schofield et al., 1998, p. 327	-
270	Post-Ramea Complex	47.50	57.43	NF	variable	Dickson et al., 1996, p. 55, 124–126, unit SRd	T <443–418	Dickson et al., 1996	-
271	Ruisseau Brandy	48.80	66.00	QC	S–SSE	Lachambre and Brisebois, 1990	T 418–394	Brisebois et al., 1991	(s)
272	Pleasant Bay ((?)fd)	44.55	67.70	U-NE	SSE	Wiebe, 1993, p. 468–469	T 418–360	-	Pleasant Bay (i) (#272A)
273	English Harbour West	47.55	55.60	NF	variable	Widmer, 1952; Colman-Sadd et al., 1979, unit 33	T 418–300	Widmer, 1952; Colman- Sadd et al., 1979	-
274	Plaster Rock (mafic)	47.00	67.50	NB	NE	Wilson, 1989	T 418–300	Wilson, 1989	-
275	Jacquet River	47.80	66.00	NB	N–NNE	Walker et al., 1993	T ≤ 418–360	Walker et al., 1993	-
276	Lower Fennell Formation	51.30	120.00	BC	-	Schiarizza and Preto, 1987, p. 33–38; Schiarizza, 1995	T ≤ 418–360	-	Lower Fennell Formation (s) (#276A); Upper Fennell Formation (v) (#276B)

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277	<u>Austin Brook</u>	47.43	65.91	NB	SSE	van Staal and Rogers, 2000, sheet 8	T ≤ 418–360	-	-
278	<u>Madawaska County</u>	47.58	68.13	NB	variable	St. Peter, 1977, p. 35–42 and plates 75-166, 75-167	T ≤ 418–360	-	-
279	<u>Rivière Madeleine</u>	48.80	66.40	QC	SSE–SE	Whalen, 1987	G < 390	Whalen and Roddick, 1987	-
280	<u>Post-Gunn Lake Pluton</u>	45.42	62.19	NS	-	Murphy et al., 1991, p. 107	≤ Gunn Lake (i) (T 383–360)	Murphy et al., 1991, p. 107	-
281	<u>Post-North River Pluton</u>	45.46	64.09	NS	variable	Pe-Piper, 1991	≤ North River (i) (T 383–360)	Pe-Piper, 1991	-
282	<u>Post-François Granite</u>	47.53	56.87	NF	SE	Dickson et al., 1996, p. 74, 124–126, unit Dd	≤ François Granite (Uz 378 ± 2)	Dickson et al., 1996, p. 74; Kerr et al., 1993	-
283	<u>Bonavista Bay</u> (Deadman's Bay)	49.10	53.80	NF	N	Murthy, 1983	A 370 ± 10	Jayasinghe, 1978	-
284	<u>Squally Point NE</u>	45.43	64.92	NS	NE	Piper et al., 1996	T < 418–360	Piper et al., 1993	-
285	<u>Squally Point N</u>	45.43	64.92	NS	N	Piper et al., 1993	T < 418–360	Piper et al., 1993	-
286	<u>Northern Hants County</u>	45.01	63.90	NS	-	Pe-Piper and Piper, 1998	≤ Horton Group (T 360–314)	Pe-Piper and Piper, 1998	-
287	<u>Cap au Diable</u>	47.28	61.68	QC	-	Brisebois, 1981	T 360–300	-	Cap au Diable Formation (v)
288	<u>Queenston</u>	45.68	66.11	NB	-	Pe-Piper and Piper, 1998, p. 207	T 360–300	Pe-Piper and Piper, 1998, p. 207	-
289	<u>Wentworth Station</u>	45.60	63.57	NS	N	Donohoe and Wallace, 1982	T ≤ 360–300	Donohoe and Wallace, 1982	-
290	<u>Mud Island</u>	43.47	65.98	NS	NNE	Rogers, 1988, p. 13	T ≤ 360–300	Rogers, 1988, p. 13	-
291	<u>Manawagonish Cove</u>	45.20	66.16	NB	-	Alcock, 1938, p. 29, 35	T ≤ 360–300	-	-
292	<u>Nahlin</u> (de)	58.90	132.10	BC	SE	Monger, 1977, p. 60–61	T ≤ 360–300	-	-
293	<u>Sylvester Group</u> (me)	59.50	130.00	BC	-	Wolf, 1965, p. 9–10	T (?) ≤ 360–300	-	-
294	<u>Rockport</u> (Rockport Headland)	42.66	70.60	U-NE	SE–S	Ross, 1986	K 351 ± 13	Weston Geophysical, 1977	-
295	<u>Sandwich Bay</u>	53.60	57.40	LB	ESE	Murthy et al., 1989a	K 327 ± 13	Murthy et al., 1989a	-
296	<u>Gaspé</u>	48.80	64.40	QC	ESE–ENE	Seguin, 1987	K ca. 310	Wanless et al., 1973, p. 72–74	-
297	<u>Canyon Mountain</u> (sd)	44.30	118.85	U-NW	E	Thayer, 1977; Nicolas, 1989	Uz 278	Walker and Mattinson, 1980	Canyon Mountain (o)
298	<u>Shulaps</u> (de)	51.00	122.50	BC	-	Calon et al., 1990	T 300–65	-	Shulaps (o) (#298A)
299	<u>Pinchi Fault</u>	54.50	124.20	BC	-	Tardy et al., 2001, p. 516, 523	T ≤ 300	-	-
300	<u>Kutcho</u>	58.09	127.60	BC	-	Childe and Thompson, 1997	G ≤ Kutcho Assemblage (v) (U 242 ± 1)	Childe and Thompson, 1997	(s)

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301	Coastal New England (CNE)	43.00	70.80	U-NE	NE	Swanson, 1992	K 237–212	Bellini et al., 1982	Coastal New England plutons (#301A)
302	Wrangellia (entries 303–304)	-	-	-	-	-	ca. 232–217	-	#303A, #304A, B
303	*Maple Creek	61.35 61.64 62.15	139.35 141.50 142.42	AK, YT	-	Mortensen and Hulbert, 1992; Nokleberg et al., 1994 and references therein	= Maple Creek (s) (Uz 232 ± 1)	Mortensen and Hulbert, 1992	Maple Creek (s); Nikolai Greenstone (v) (#303A)
304	*Mount Hall	49.33	124.78	BC	-	Massey et al., 1991	Uz 222–217	Isachsen et al., 1985	Mount Hall (s); Karmutsen (v) (#304A)
305	Plymouth (Wedgeport Pluton) (+lamprophyre)	43.78	66.00	NS	-	Pe-Piper and Reynolds, 2000	A ca. 231–222 (lamprophyre); A ca. 209–203 (diabase)	Pe-Piper and Reynolds, 2000	(?) Coastal New England (d) (#301); (?) Central Atlantic Magmatic Province (d) (#307)
306	Ramparts Group	67.70	143.50	AK	-	Dover, 1994; Reiser et al., 1965, p. C69	K 205 ± 6	Brosgé et al., 1969	Ramparts Group (s, v) (#306A)
307	Central Atlantic Magmatic Province (CAMP, Eastern North America, ENA)	41.30 43.90 47.16	73.00 65.00 53.00	NF, NS, NB, U-NE, QC	ENE–N (part of fan)	Greenough and Hodych, 1990; Puffer and Ragland, 1992; Hames et al., 2003	U, A ca. 202–199	Dunning and Hodych, 1990; Hames et al., 2000; Dunn et al., 1998	North Mountain Basalt (#307A); Grand Manan (v) (#307B); (v, s) (#307C)
308	Oksa Creek (excludes felsite)	57.40	131.56	BC	N–NE	Brown et al., 1996, p. 65–67	G 200–50	Brown et al., 1996	-
309	<u>Mauneluk Section</u>	66.95	155.90	AK	-	Pallister et al., 1989	T ≤ 253–200 and T ≤ 200–145	Pallister et al., 1989	-
310	White Mountain Magma Series (WMMS)	43.90	71.70	U-NE	NE	McHone, 1996	T 200–178	McHone, 1996	White Mountain Magma Series (i) (#310A)
311	<u>Saunders Creek</u>	57.30	127.00	BC	SE	Diakow et al., 1993	T 200–157	Map <i>in</i> Diakow et al., 1993	-
312	Fidalgo Island	48.50	122.60	U-NW	-	Brown, 1977	T 200–145	Brown, 1977	Fidalgo Island (o)
313	Notre Dame Bay (alkaline lamprophyre)	49.45	55.40	NF	NE; local fan	Strong and Harris, 1974	T 200–65	Strong and Harris, 1974	Budgells Harbour gabbro (i)
314	<u>Sechart Peninsula</u> (>1)	49.67	123.83	BC	variable	LeRoy, 1908; Bacon, 1957, p. 33	T ≤ 200–145	-	-
315	<u>Puyalon</u> (Anticosti Island)	49.79	63.21	QC	SE	Bédard, 1992; Petryk, 1981	K 178 ± 8	Wanless and Stevens, 1971	-
316	Western Brooks Range (Siniktanneyak Mountain ((?)sd), Ipnavik River)	68.35 68.50 68.00	158.50 157.50 161.50	AK	NE	Roeder and Mull, 1978; Mayfield et al., 1988, p. 160–162; Saltus et al., 2001	Uz 170 ± 3 and T 360–145	Moore et al., 1993; Saltus et al., 2001	Siniktanneyak Mountain (o); Ipnavik (s)
317	<u>Peak No. 7</u>	63.90	158.40	AK	-	Patton et al., 1994, p. 675	K 151 ± 5	Patton et al., 1994, p. 676	-

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318	<u>Lovers Leap</u>	41.38	122.63	U-NW	-	Brouxel et al., 1989	K 149 ± 6	Brouxel et al., 1989	(?) Klamath Mountains ultramafic-mafic complexes
319	<u>Kanuti Area</u>	65.80	152.00	AK	-	Loney and Himmelberg, 1989	K 149–138	Patton et al., 1994, p. 675	-
320	<u>Scatarie Ridge</u>	45.99	59.16	NS	-	Jansa et al., 1993	T 145–99	Jansa et al., 1993	Orpheus Half-Graben (v)
321	<u>Surprise Fiord</u>	78.00	91.00	NU	E	Thorsteinsson, 1970	T 145–65	Embry and Osadetz, 1988	-
322	<u>Trap</u> (TD, Coast Parallel)	61.00	48.00	GR	SE	Nielsen, 1987; Berthelsen and Henriksen, 1975	A 139–133	Larsen et al., 1999	-
323	<u>New England–Québec</u> (NEQ, Monteregean) (alkaline lamprophyre)	45.00	72.00	U-NE, QC	SE–NE	Faure et al., 1996; McHone, 1984; Bédard et al., 1988	R 138–109	Bédard et al., 1988, p 2042	Monteregean Hills (i) of Quebec and associated plutons of New England (#323A)
324	<u>Axelgold</u>	56.10	126.10	BC	SE	Irvine, 1975	K, R ca. 125	Armstrong et al., 1985	Axelgold Gabbro (i)
325	<u>Queen Elizabeth Islands</u> [Lightfoot River]	91.00	92.00	NU	SW–SSE (fan)	Embry and Osadetz, 1988; Williamson, 1988; Balkwill and Fox, 1982; Thorsteinsson and Trettin, 1972	T 145–65; A ca. 95; K ca. 120	Embry and Osadetz, 1988; Balkwill and Haimila, 1978; Tarduno et al., 1998	Queen Elizabeth Islands (s) (#325A); Queen Elizabeth Islands (v) (#325B); Alpha Ridge (v)
326	<u>Kigluak Mountains</u>	64.90	165.80	AK	-	Amato and Wright, 2000	A 83 ± 1	Amato and Wright, 2000	-
327	<u>Yukon River</u>	64.25	139.65	YT	-	Mortensen, 1988a	T 65–23	Mortensen, 1988b, p. 77	-
328	<u>Siletz River</u> (fd)	44.88	123.83	U-NW	-	Snavely et al., 1976b	T 65–37	Burchfiel et al., 1992, p. 455	Siletz River (v) (#328A)
329	<u>Queen Charlotte Islands</u> (>1)	52.50	131.57	BC	NNE–NNW	Souther and Jessop, 1991; Irving et al., 1992	T 65–1.8	J.C. Roddick <i>in</i> Souther and Jessop, 1991, p. 471	(?) Masset Formation (v) (#329A)
330	<u>Rennell Sound</u>	53.40	132.60	BC	NE	Souther and Jessop, 1991	T 65–1.8	Souther and Jessop, 1991	-
331	<u>Wrangell</u>	61.80	140.94	YT	-	Souther and Stanciu, 1975	T 65–1.8	-	Wrangell Lavas (#331A)
332	<u>Adams Lake</u>	51.20	119.70	BC	N	Schiarizza and Preto, 1987, p. 48–49	T (?) 65–1.8	Schiarizza and Preto, 1987, p. 49	-
333	<u>McConnell Creek</u>	56.20	126.70	BC	-	Lord, 1948, p. 43–45	T ≤ 65	Lord, 1948, p. 45	McConnell Creek Volcanic Province
334	<u>West Greenland Tertiary Volcanic Province</u>	70.00	54.00	GR	SE–S	Clarke and Pedersen, 1976, p. 378–379; Pedersen, 1977	= #334A (A 61–52)	Storey et al., 1998	West Greenland Tertiary Volcanic Province (#334A); Cape Searle (d, v) (#335, #335A)
335	<u>Cape Searle</u>	67.13	62.50	NU	SE	Clarke and Upton, 1971	(?) = #335A (K 58 ± 2)	E. Farrar <i>in</i> Clarke and Upton, 1971, p. 250	(?) Cape Dyer (v) (#335A); West Greenland Tertiary Volcanic Province (v, d) (#334A, #334)
336	<u>Resurrection Peninsula</u> (sd)	59.95	149.23	AK	-	Bol et al., 1992	Uz 57 ± 1	Nelson et al., 1989	Resurrection Peninsula (o)

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337	Sukkertoppen (alkaline lamprophyre)	65.39	52.42	GR	ESE	Larsen et al., 1999	A 55 ± 1	Larsen et al., 1999	(?) West Greenland Tertiary Volcanic Province (v, d) (#334A, #334)
338	Coryell (mafic)	49.25	118.00	BC	-	Wingate and Irving, 1994	T 55–49	Wingate and Irving, 1994	(?) Coryell Intrusive Suite
339	Metchosin (sd)	48.40	123.70	BC	variable	Muller, 1977	T 55–34	Muller, 1977	Metchosin Igneous Complex (s, v) (#339A); Crescent Formation (v) (#339B)
340	Siuslaw River (>1)	44.20	123.70	U-NW	E	Snavely et al., 1976a; Walker and MacLeod, 1991; Luedke, 1998	T 55–23	Snavely et al., 1976a	-
341	Orca (sd)	60.40	147.70	AK	-	Plafker et al., 1994	>51	Plafker et al., 1994	Orca Group (v) (#341A)
342	White Pass	59.63	135.17	BC, AK	-	Harris et al., 1998	K 51 ± 3	Harris et al., 1998	-
343	Endako-Silver Queen (+andesite)	54.04 54.10	125.11 126.30	BC	-	Lowe et al., 2001; Leitch et al., 1992	A, K 50 ± 2	Grainger et al., 2001; Leitch et al., 1992	Ootsa Lake Group (v); Endako Group (v)
344	Nelchina	62.00	147.80	AK	ESE	Grantz, 1960; Silberman and Grantz, 1984	K 46 ± 3	Silberman and Grantz, 1984	(s, v)
345	Skeena River	54.30	129.20	BC	S–SE	Hutchison, 1982, Fig. 96; Kretz, 1955	K 41 ± 6	Hutchison, 1982, p. 47	-
346	Katalla	60.30	144.00	AK	-	Plafker et al., 1994, p. 431	T 29–23	-	Poul Creek Formation (v)
347	Level Mountain	58.52	131.33	BC	-	Hamilton and Scarfe, 1977	T ≤ 23	-	Level Mountain (v) (#347A)
348	Behm Canal (Tertiary 'Lamprophyre' Province) (alkaline lamprophyre)	55.30	130.50	BC, AK	NE	Smith, 1973; Alldrick, 1993, p. 34; Hutchison, 1982	T (?) 23–5	Alldrick, 1993, p. 34	-
349	Columbia Intermontane Region (entries 350–356)	-	-	-	-	-	mainly 17–14	-	Columbia River Basalt Group (#349A); Oregon Plateau (v) (#349B); Western Cascades (v) (#349C); Depoe Bay (v); Cape Foulweather (v)
350	*Chief Joseph	46.00	117.50	U-NW	N–NNW (fan)	Tolan et al., 1989	17–14	-	-
351	*Monument (Monument Valley)	44.50	119.50	U-NW	SE	Tolan et al., 1989	16.5–14.5	-	-
352	*Cascade Range	44.70	122.30	U-NW	SE	Walker and MacLeod, 1991	17–10	-	-
353	*Necanium River	45.90	123.70	U-NW	NE, SE	Walker and MacLeod, 1991	T ≤ 23–5	-	-
354	*Depoe-Foulweather	44.80	124.05	U-NW	N	Snavely et al., 1973, 1976b	T 16–11	Snavely et al., 1976b	-
355	*Steens Mountain	42.60	118.60	U-NW	NNE	Walker and MacLeod, 1991	ca. 15	-	-
356	*Nevada Rift	39.90	116.35	U-NW	SSE	Zoback et al., 1994	17–14	Zoback et al., 1994	-
357	Snake River Plain	43.30	113.50	U-NW	SE	Parsons et al., 1998	14–0	Parsons et al., 1998	eastern Snake River Plain (v) (#357A); western Snake River Plain (#357B)

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
358	Cheslatta Lake Suite	53.60	125.15	BC	-	Anderson et al., 2001	T 16–11	M.E. Villeneuve and N.C. Grainger <i>in</i> Anderson et al., 2001	Cheslatta Lake Suite (v)
359	Selwyn Inlet	52.86	131.83	BC	E	Souther and Jessop, 1991	K 13 ± 6	J.C. Roddick <i>in</i> Irving et al., 1992	-
360	Bella Bella-Gale Passage	52.20	128.25	BC	SSE, SSW	Souther and Yorath, 1991	K 12.5 ± 2.7	Wanless et al., 1970	-
361	Kuys	57.30	131.10	BC	E	Brown et al., 1996, p. 67	T ≤ 11–5	Brown et al., 1996	-
362	North Rift	52.76	125.36	BC	SE	Souther, 1984	K 6–5	Souther, 1984	North Rift Basalt of the Ilgachuz Range volcano (#362A)
363	<u>Pillow Ridge-Ice Peak</u> (fd)	57.76	130.67	BC	variable	Souther, 1992, p. 152–172 and accompanying map 1623A	= Pillow Ridge Formation (v) and Ice Peak Formation (v) (3–1)	Souther et al., 1984	Pillow Ridge Formation and Ice Peak Formation of Mount Edziza volcanic complex (#363A)
364	<u>Wells Gray-Clearwater</u>	51.80	120.10	BC	-	Hickson and Metcalf, 1995	T ≤ 1.8	Hickson and Metcalf, 1995	(?) Clearwater (v) (#364A)
VERY POORLY DATED SWARMS									
365	<u>Ataa Sund</u>	69.60	50.90	GR	ESE	Garde, 1994	-	-	-
366	<u>Baie Cachée</u>	49.87	74.33	QC	SE	Graham, 1956	T ≥ 1600	-	-
367	<u>Baie de Brador</u> (Dykes IIIa) (me)	51.50	57.60	QC	-	Lavergne, 1986, p. 26	T 2500–544	-	-
368	<u>Beartooth Mountains</u> (>1)	45.20	110.20	U-NW	variable	Snyder et al., 1989; Prinz, 1964	-	-	-
369	<u>Bebensee Lake</u> [Hottah]	67.50	118.50	NT, NU	N–NNE	Fahrig and West, 1986; Ross and Kerans, 1989	T 1600–544	-	(?) Mackenzie (d) (#142); (?) Franklin-Thule (d) (#184); (?) Gunbarrel (d; sheet-like intrusions) (#177)
370	<u>Bighorn Mountains</u> (≥1)	44.50	107.20	U-NW	variable	Snyder et al., 1989	ca. 2800–2200	Snyder et al., 1989	-
371	<u>Blindman Lake</u> (de)	55.90	104.25	SK	NE	Thomas, 1984	T ≥ 544	-	-
372	<u>Bull Island</u>	47.77	53.80	NF	ESE	McCartney, 1958	-	-	-
373	<u>Cabonga</u> [Grenville]	47.05	77.08	QC	E	Fahrig and West, 1986	-	-	(?) Grenville (d) (#194)
374	<u>Caldwell</u>	46.45	70.50	QC	-	Cousineau, 1990, p. 17; Ganiépy, 1978	T 1000–489	-	(?) Caldwell Group (v) (#374A)
375	<u>Caledonian Highlands</u> (me) (>1)	45.60	65.20	NB	-	Barr and White, 1999, p. 35, 37	T ≤ 1000–544	-	-
376	<u>Campobello Island</u> (de in part) (>1)	44.85	66.95	NB	-	McLeod and Rast, 1988	T 1000–418	-	-
377	<u>Cape Breton Highlands</u> (>1)	46.35	60.80	NS	variable	Home, 1995, p. 32, 38; Ham, 1997, p. 17–18, Fig. 4	-	-	-

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
378	<u>Central Minnesota</u> (>1)	45.60	95.00	U-NC	ESE	Boerboom et al., 1995; aeromagnetic interpretation herein using Chandler, 1991	G < ca. 1800	T.J. Boerboom, pers. comm., 1998	-
379	<u>Central Zone</u> (amphibolite) (me; de) (2)	54.70	64.50	LB	-	James and Mahoney, 1994, p. 377	T ≥ 1600	-	-
380	<u>Cobham-North Spirit</u> ('North-Striking')	52.50 52.90	93.50 94.50	ON	N	Osmani, 1991, p. 671; Stone, 1989, Fig. 5.2	-	-	-
381	<u>Crowfoot</u> , dyke	51.67	116.43	AB	ENE	Price and Mountjoy, 1978	T (?) 1000–544	-	-
382	<u>Darnley Bay- Lasard</u> <u>River</u>	69.25	124.00	NT	SSE	Aeromagnetic interpretation herein using unpublished aeromagnetic map provided by Darnley Bay Resources Ltd.; Park, 1981; Jones et al., 1992, Fig. 5	T (?) 1000–544; K ca. 705	Wanless et al., 1965, p. 48	(?) Brock Inlier (s) (#382A); (?) Franklin-Thule (d) (#184)
383	<u>Empey Lake</u>	49.22	89.91	ON	N–NNE	Sutcliffe and Smith, 1988; Ontario Geological Survey, 2000	T 2500–544	-	-
384	<u>Fair Haven</u>	47.52	53.92	NF	ESE	McCartney, 1967, p. 95	-	-	-
385	<u>Fifteenmile Group</u>	64.80	139.40	YT	variable	Thompson et al., 1992	T 1600–544	-	(s)
386	<u>Flintdale</u>	51.60	84.50	ON	NNE	Aeromagnetic interpretation herein using maps from Geophysical Data Centre of Geological Survey of Canada	-	-	-
387	<u>Northern Madison</u> <u>Range</u>	45.41	111.50	U-NW	variable	Snyder et al., 1989	-	-	-
388	<u>Goat River</u>	53.33	120.90	BC	ESE	Ferguson, 1996	T (?) 1000–544	-	-
389	<u>Gravelly Range</u>	44.95	111.70	U-NW	-	Houston et al., 1993, p. 128	T ≥ 1600	-	-
390	<u>Great Village River</u>	45.52	63.50	NS	E	Donohoe and Wallace, 1982	T ≤ 1000–544	Donohoe and Wallace, 1982	-
391	<u>Grey River Enclave</u> (me; de)	47.58	57.12	NF	-	Dickson et al., 1996, p. 11–15	T ≤ 1000–544	Dickson et al., 1996	-
392	<u>Grimsthorpe Domain</u> (me) (>1)	44.85	77.25	ON	ENE–NE	Easton and Ford, 1994, p. 68–69, 93	T (?) 1600–544	-	-
393	<u>Gunisao Lake</u> (me)	53.60	96.20	MB	ESE	Ermanovics, 1973, p. 9 and accompanying map 5-1972	-	-	-
394	<u>Halfway Hills</u>	64.60	96.40	NU	NE	Zaleski et al., 2001; Taylor, 1985	-	-	-
395	<u>Hartville Uplift</u>	42.58	104.48	U-NW	N	Snyder et al., 1989	T ≥ 1600	-	-
396	<u>Hermitage Peninsula</u>	47.53	55.87	NF	variable	Colman-Sadd et al., 1979, unit 25	T ≤ 1000–544	Colman-Sadd et al., 1979	-

No.	SWARM NAME	LAT (°N)	LONG (°W)	REGION	TREND	KEY REFERENCE(S)	AGE (Ma)	AGE REFERENCE(S)	RELATED UNIT(S)
397	<u>Highland Mountains</u> (>1)	45.64	112.50	U-NW	E, SE	Johnson and Swapp, 1989; Hartan et al., 1996	T 1600–544	-	-
398	<u>Hood River</u>	67.00	109.10	NU	E	Henderson et al., 1991; Bostock et al., 1963	-	-	-
399	<u>Kangerluarsuk</u> (me; de)	69.70	50.25	GR	SSE	Escher et al., 1999, p. 175–176	T ≥ 1600	-	-
400	<u>Kekertaluk</u>	68.17 67.15	66.50 65.10	NU	NE–N	Jackson, 1998, 2002	-	-	-
401	<u>Kingarjuit</u> (mafic) (de)	64.66	96.24	NU	-	Zaleski et al., 2001	T ≥ 1600; < ca. 2870	E. Zaleski, pers. comm., 2001	(?) Kingarjuit (v) (E. Zaleski, pers. comm., 2001)
402	<u>Lac à l'Eau Claire</u>	56.25	74.40	QC	variable	Rondot et al., 1993	≥ meteorite impact (T 360–300)	-	-
403	<u>Lac des Piliers</u>	48.56	69.64	QC	N	Rondot, 1986	-	-	-
404	<u>Lac des Vents</u>	49.50	74.84	QC	SSE	Ministère des Ressources naturelles du Québec, 1995	-	-	-
405	<u>Lac Dufresne</u>	51.35	65.75	QC	-	Blais, 1960, p. 28–38	-	-	(?) Waco Igneous Complex (s)
406	<u>Lac Manitou</u> (>1)	50.80	65.26	QC	-	Chevé et al., 1999, p. 32	-	-	-
407	<u>La Poile River</u> (me; de)	47.87	58.20	NF	NE	Chorlton, 1980	-	-	-
408	<u>Lower Tindir</u> (+andesite)	65.30	141.00	AK, YT	-	Young, 1982	T (?) 1000–544	-	Lower Tindir Group (s)
409	<u>Madison Range</u>	44.90	111.44	U-NW	-	Snyder et al., 1989	-	-	-
410	<u>Manicouagan</u>	51.60	67.90	QC	E	Kish, 1968	-	-	-
411	<u>Manuels</u>	47.52	52.96	NF	-	Mills et al., 1999, p. 269	T ≥ 723–544	-	-
412	<u>McDonald Lake</u> (me)	46.40	90.00	U-NC	NE	Schmidt, 1976	> Keweenawan	Schmidt, 1976	-
413	<u>Medicine Bow Mountains</u>	41.50	106.25	U-NW	-	Houston et al., 1993, p. 140–141	T 2500–544	-	Medicine Bow Mountains (s)
414	<u>Nevis Lake Block</u> (mafic) (de)	59.65	107.66	SK	-	Harper, 1983, p. 7–8	-	-	-
415	<u>Nigârfivik</u>	76.25	68.90	GR	NNE	Dawes, 1991	T 2500–1000; K 1667 ± 50, 1313 ± 39	Dawes and Rex, 1986	-
416	<u>Oka</u>	45.52	74.10	QC	NE	Maurice, 1957	-	-	-
417	<u>Oldman River</u> (excludes minette lamprophyre)	59.60	107.30	SK	NE	Blake, 1955, p. 32	T 2500–544	-	-
418	<u>Petitot</u>	62.00 59.20	118.50 120.50	AB, BC, NT	SE	G. Ross, pers. comm., 2000; aeromagnetic interpretation herein using maps from Geophysical Data Centre of Geological Survey of Canada	-	-	-
419	<u>Petit Rigolet</u> (Dykes I and Dykes II) (me; de)	51.20	58.50	QC	-	Lavergne, 1986, p. 23–26	T 2500–544	-	-

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420	<u>Point au Gaul</u>	46.85	55.75	NF	-	O'Brien et al., 1977, p. 5	T ≤ 1000–544	-	-
421	<u>Pointe Raudot</u>	61.00	72.00	QC	NE	Gordon et al., 1981; Buchan et al., 1998	-	-	-
422	<u>Post-Burin Group</u> (≥1)	46.96	55.34	NF	-	Strong et al., 1978, p. 28–29, 33	T 1000–253	-	Marystown Group (v); Mortiers Group (v)
423	<u>Post-De Pas Batholith</u> (mafic) (≥1)	54.50	64.90	LB	NNE, ENE	James and Mahoney, 1994, p. 378	T ≤ 2500–1600	-	-
424	<u>Post-Grey River Enclave</u>	47.61	57.00	NF	-	Dickson et al., 1996, p. 74, 124–126, unit Ddp	T ≤ 1000–544	-	-
425	<u>Post-Jeffers Brook Pluton</u> (2)	45.47	64.30	NS	N, SE	Pe-Piper and Piper, 1987, p. 45	T 723–418	Pe-Piper and Piper, 1987, p. 45	-
426	<u>Post-Red Bay Intrusion</u> (mafic)	51.77	56.42	LB	-	Gower et al., 1994, p. 358	<Red Bay Intrusion (T 2500–1000)	-	-
427	<u>Post-Seignelay Anorthosite</u>	51.70	68.95	QC	-	Indares et al., 2000, p. 328	≤ Seignelay Anorthosite (1692 ± 85)	Indares et al., 2000, p. 328	-
428	<u>Post-Steel Mountain Anorthosite</u> (me)	48.50	58.18	NF	SW–SE	van Berkel and Knight, 1988	T 1600–253	van Berkel and Knight, 1988	(?) Long Range (d) (#192)
429	<u>Powell Lake</u>	46.39	87.45	U-NC	N–NNE	Gair and Thaden, 1968	(?) > Keweenawan	Gair and Thaden, 1968	-
430	<u>Réservoir Dozois</u>	47.60	77.27	QC	NE	Chagnon, 1965	-	-	-
431	<u>Rivière du Gué</u>	56.50	72.00	QC	E	Stevenson et al., 1969	-	-	-
432	<u>Rivière Koksoak</u>	58.15	68.35	QC	N	Gélinas, 1960	-	-	-
433	<u>Rivière Ouareau</u>	46.25	73.97	QC	SE–S	Côté, 1960, p. 21–22	-	-	-
434	<u>Rivière Saint-Jean</u>	50.30	64.20	QC	-	Sharma and Franconi, 1975, p. 43	-	-	-
435	<u>Rivière Saint-Maurice</u> (≥1)	46.86	72.65	QC	variable	Rondot, 1958; Béland, 1961, p. 30	<#439	-	-
436	<u>Ruby Range</u>	45.20	112.30	U-NW	SE	Snyder et al., 1989	-	-	-
437	<u>Saint Cloud</u> (Kanabec) (≥1)	45.80	93.75	U-NC	ENE	Southwick et al., 1988; Boerboom et al., 1995	ca. 1800–1100	Holm and Lux, 1997	-
438	<u>Saint John Region</u>	45.28	66.10	NB	-	Alcock, 1938, p. 10, 25–29	T ≤ 1000–544	-	-
439	<u>Shawinigan</u> (de) (≥1)	47.10 46.55	72.50 72.90	QC	-	Béland, 1961, p. 30; Hébert and Nadeau, 1995, p. 7	> #435	-	-
440	<u>Southeast Minnesota</u>	43.70	92.00	U-NC	ENE	Aeromagnetic interpretation herein using Chandler, 1991	-	-	-
441	<u>Southwest Minnesota</u>	43.60	95.50	U-NC	ENE	Aeromagnetic interpretation herein using Chandler, 1991	-	-	-
442	<u>Sugarloaf Mountain</u> (≥1)	46.60	87.46	U-NC	E–NE	Gair and Thaden, 1968	(?) > Keweenawan	Gair and Thaden, 1968	-

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443	Themines	51.70	68.50	QC	N-NE	Indares et al., 2000	≤ 1300	Indares et al., 2000, p. 329	-
444	Three Valley (fd; me; de)	50.93	118.47	BC	-	Jones, 1959, p. 31, 62	-	-	Three Valley (s)
445	Tree River	67.10	113.00	NT, NU	NE	Craig et al., 1960; aeromagnetic interpretation herein using maps from Geophysical Data Centre of Geological Survey of Canada	-	-	-
446	Tulk's Pond (me)	48.60	58.08	NF	N-NE	Knapp et al., 1979, p. 319, 322; Currie and van Berkel, 1992, p. 3	T 1000-489	-	(?) Long Range (d) (#192)
447	Twin Lakes	56.25	103.83	SK	-	Harper, 1984, p. 12	-	-	-
448	Upper Red Lake	48.30	95.50	U-NC	E	Aeromagnetic interpretation herein using Chandler, 1991	-	-	-
449	Vernon	50.25	119.50	BC	-	Jones, 1959, p. 53	-	-	-
450	Weasel Pond	48.52	58.50	NF	NNE	Heyl and Ronan, 1954, p. 46, Fig. 12	T 1000-360	-	(?) Long Range (d) (#192)
451	Western Belcher Islands	55.96	80.14	NT	-	Dimroth et al., 1970, p. 108; Jackson, 1960	T 1600-544; K 881 ± 80	Wanless et al., 1967, p. 69-70	-
452	Whitefin Lake	49.03	89.32	ON	SSE	Kaye, 1966	T 2500-544	-	-
453	Woolsey Creek	51.50	117.50	BC	-	Wheeler, 1963, p. 18	-	-	-

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