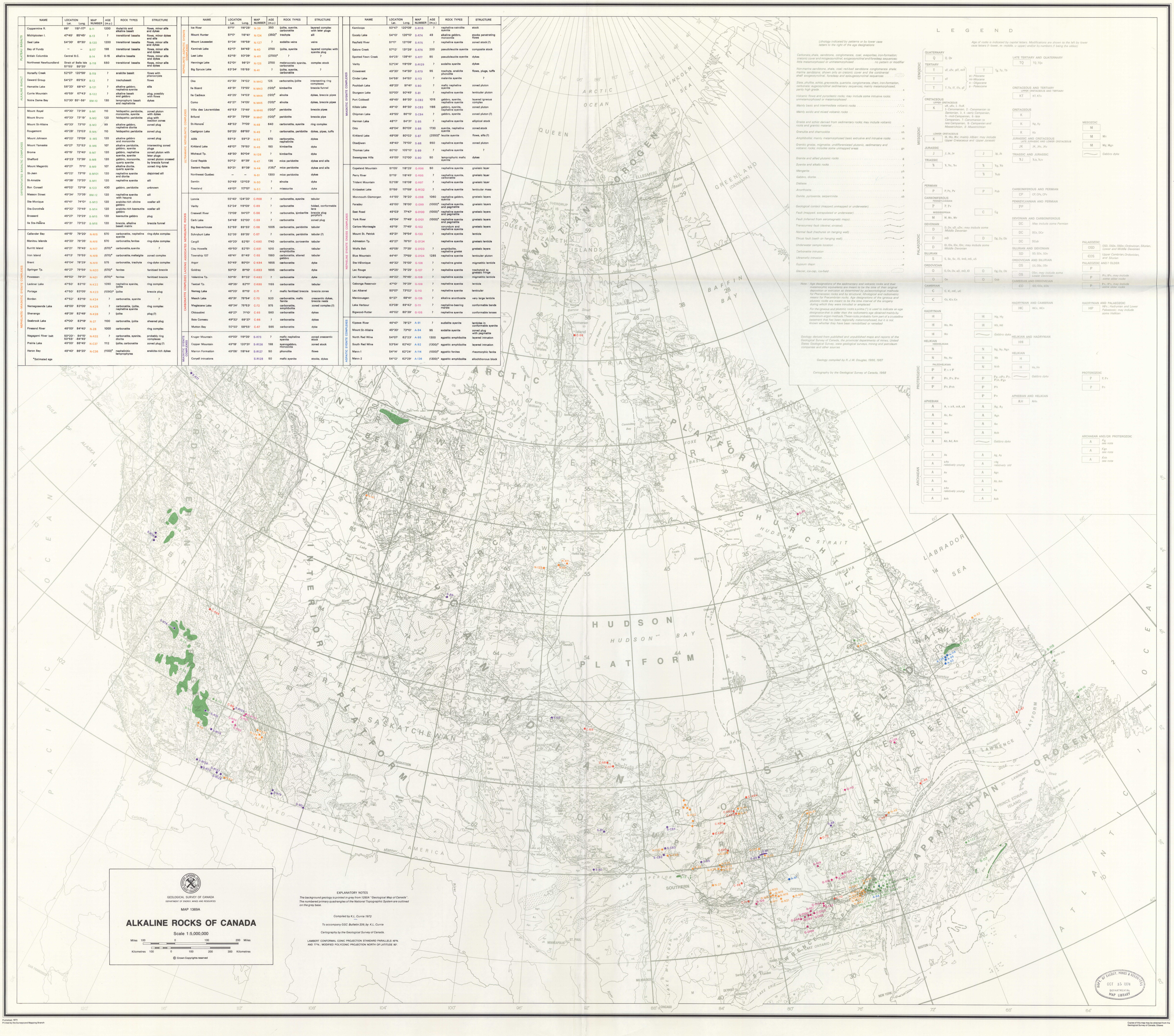
Group	NAME	Lat.	Long.	MAP NUMBER	AGE (m.y.)	ROCK TYPES	STRUCTURE
PLATEAU BASALTS	Coppermine R.	68°	115°-117°	B-11	1200	tholeiitic and alkaline basalt	flows, minor sills and dykes
	Michipicoten I.	47°45′	85°45′	B-13	?	transitional basalts	flows, minor dykes and sills
	Seal Lake	54°30′	61°30′	B-120	1200	transitional basalts	flows, minor sills and dykes
	Bay of Fundy	—	—	B-117	198	transitional basalts	flows, minor sills and dykes
	British Columbia	Central B.C.		B-14	0-15	alkaline basalts	flows, minor sills and dykes
	Northwest Newfoundland	Strait of Belle Isle 51°55′	55°20′	B-118	550	transitional basalts	flows, minor sills and dykes
ALKALINE BASALT	Horsefly Creek	52°07′	120°56′	B-119	?	analcite basalt	flows with phenocrysts
	Seward Group	54°27′	65°53′	B-12	?	trachybasalt	flows
	Hematite Lake	56°33′	68°47′	B-121	?	alkaline gabbro, nepheline syenite	sills
	Currie Mountain	45°59′	67°43′	B-122	?	alkaline basalt and gabbro	plug, possibly with flows
	Notre Dame Bay	52°30′	55°-56°	BM-10	130	lamprophyric basalt and nephelinite	dykes
DIFFERENTIATED BASALTIC COMPLEXES	Mount Royal	45°30′	73°36′	B-M1	110	feldspathic peridotite, monzonite, syenite	zoned pluton with dykes
	Mount Bruno	45°33′	73°19′	B-M2	120	feldspathic peridotite	plug with reaction zones
	Mount St-Hilaire	45°33′	73°10′	B-M3	99	alkaline gabbro, nepheline diorite	zoned plug
	Rougemont	45°28′	73°03′	B-M4	110	feldspathic peridotite	zoned plug
	Mount Johnson	45°22′	73°09′	B-M5	120	alkaline gabbro and monzonite	zoned plug
	Mount Yamaska	45°27′	72°52′	B-M6	107	alkaline peridotite, gabbro, syenite	intersecting zoned plugs
	Brome	45°15′	72°40′	B-M7	120	gabbro, nepheline syenite, syenite	zoned pluton with later plugs
	Shefford	45°23′	72°36′	B-M8	120	gabbro, monzonite, quartz syenite	zoned pluton crossed by breccia funnel
	Mount Megantic	45°27′	71°11′	B-M9	107	alkaline diorite, quartz syenite	zoned ring dyke
	St-Jean	45°22′	73°15′	B-M101	120	nepheline syenite and diorite	disjointed sill
	St-Amable	45°38′	73°20′	B-M11	120	nepheline syenite	sill
	Bon Conseil	46°02′	72°19′	B-123	430	gabbro, peridotite	unknown
	Masson Street	45°34′	73°35′	BM-12	120	nepheline syenite with hauyne	sill
	Ste-Monique	45°41′	74°01′	B-M13	120	analcite-rich olivine gabbro	ocellar sill
	Ste-Dorothée	45°32′	73°46′	B-M14	120	analcite-rich kaersutite gabbro	ocellar sill
	Brossard	45°27′	73°29′	B-M15	120	kaersutite gabbro	plug
	Ile Ste-Hélène	45°31′	73°32′	B-M16	120	breccia, alkaline basalt matrix	breccia funnel
NEPHELINITE – MIASKITIC SYENITE COMPLEXES	Callander Bay	46°15′	79°20′	N-N15	570	carbonatite, nepheline syenite	ring-dyke complex
	Manitou Islands	46°20′	79°35′	N-N16	570	carbonatite, fenites	ring-dyke complex
	Burritt Island	46°21′	79°45′	N-N17	(570)*	carbonatite, syenite	?
	Iron Island	46°13′	79°55′	N-N18	(570)*	carbonatite, melteigite	zoned complex
	Brent	46°04′	78°29′	N-N19	575	carbonatite, trachyte	ring-dyke complex
	Springer Tp.	46°27′	79°56′	N-N20	(570)*	fenites	fenitized breccia
	Powassan	46°02′	79°21′	N-N21	(570)*	fenites	fenitized breccia
	Lackner Lake	47°50′	83°15′	N-K22	1090	nepheline syenite, ijolite	ring complex
	Portage	47°50′	83°05′	N-K23	(1090)*	ijolite	breccia plug
	Borden	47°52′	83°15′	N-K24	?	carbonatite, syenite	?
	Nemegosenda Lake	48°00′	83°05′	N-K25	?	carbonatite, ijolite, nepheline syenite	ring complex
	Shenango	48°26′	82°48′	N-K26	?	ijolite	plug (?)
	Seabrook Lake	47°00′	83°18′	N-27	1100	carbonatite, ijolite	sheared plug
	Firesand River	48°00′	84°40′	N-28	1000	carbonatite	ring complex
	Nagagami River belt	50°20′- 50°55′	84°15′ -84°45′	N-R32	?	carbonatite, syenite, diorite	probably ring complexes
	Prairie Lake	49°00′	86°45′	N-C37	1112	ijolite, carbonatite	zoned plug (?)
	Heron Bay	48°40′	86°20′	N-C36	(1100)*	nephelinitic lamprophyres	analcite-rich dykes

*Estimated age

Group	NAME	Lat.	Long.	MAP NUMBER	AGE (m.y.)	ROCK TYPES	STRUCTURE
NEPHELINITE–AGPAITIC SYENITE COMPLEXES	Ice River	51°11′	116°25′	N-39	350	ijolite, syenite, carbonatite	layered complex with later plugs
	Mount Hunter	51°17′	116°41′	N-124	(350)*	trachyte	sill
	Mount Laussedat	51°34′	116°56′	N-127	?	sodalite veins	veins
	Kaminak Lake	62°17′	94°45′	N-40	2700	ijolite, syenite	layered complex with syenite plug
	Last Lake	62°15′	93°39′	N-411	(2700)*	?	?
	Henninga Lake	62°01′	96°21′	N-125	2700	melanocratic syenite, carbonatite	complex stock
	Big Spruce Lake	63°34′	115°55′	N-41	?	ijolite, syenite, carbonatite	?
ULTRAMAFIC NEPHELINITIC COMPLEXES	Oka	45°30′	74°02′	N-M42	125	carbonatite, ijolite	intersecting ring complexes
	Ile Bizard	45°31′	73°55′	N-M43	(120)*	kimberlite	breccia funnel
	Ile Cadieux	45°25′	74°03′	N-M44	(120)*	alnoite	dykes, breccia pipes
	Como	45°27′	74°05′	N-M45	(120)*	alnoite	dykes, breccia pipes
	Ville des Laurentides	45°53′	73°46′	N-M46	(120)*	peridotite	breccia pipes
	Brilund	45°31′	73°59′	N-M47	(120)*	peridotite	breccia pipe
	St-Honoré	48°32′	71°05′	N-48	640	carbonatite, syenite	ring complex
	Castignon Lake	56°25′	68°50′	N-49	?	carbonatite, peridotite	dykes, pipes, tuffs
	Aillik	55°13′	59°13′	N-52	570	carbonatite, nephelinite	dykes
	Kirkland Lake	48°07′	79°50′	N-45	150	kimberlite	dyke
	Michaud Tp.	48°30′	80°04′	N-126	?	kimberlite	dyke
	Coral Rapids	50°12′	81°38′	N-47	135	mica peridotite	dykes and sills
	Sextant Rapids	50°21′	81°38′	N-44	(135)*	mica peridotite	dykes and sills
	Northwest Quebec	—	—	N-51	1300	mica peridotite	dykes
	Semlin	50°45′	121°03′	N-50	?	alnoite	dyke
	Rossland	49°07′	117°51′	N-53	?	missourite	dyke
CARBONATITE COMPLEXES LACKING ASSOCIATED NEPHELINITIC ROCKS	Lonnie	55°40′	124°30′	C-R68	?	carbonatite, syenite	tabular
	Verity	52°24′	119°09′	C-69	?	carbonatite	folded, conformable lens
	Creswell River	73°08′	94°07′	C-56	?	carbonatite, kimberlite	breccia plug porphyry
	Carb Lake	54°48′	92°00′	C-59	?	carbonatite	zoned plug
	Big Beaverhouse	52°55′	89°55′	C-58	1005	carbonatite, peridotite	tabular
	Schryburt Lake	52°35′	89°35′	C-57	?	carbonatite, peridotite	tabular (?)
	Cargill	49°20′	82°51′	C-K60	1740	carbonatite, pyroxenite	tabular
	Clay Howells	49°50′	82°51′	C-K61	1010	carbonatite, amphibolite	tabular
	Township 107	46°41′	81°45′	C-55	1560	carbonatite, altered gabbro	tabular
	Argor	50°45′	80°01′	C-K64	1655	carbonatite	dyke
	Goldray	50°13′	81°10′	C-K63	1695	carbonatite	dyke
	Valentine Tp.	50°15′	81°32′	C-K62	?	carbonatite	dyke
	Teetzel Tp.	48°35′	82°11′	C-K65	1155	carbonatite	tabular
	Nemag Lake	46°20′	81°15′	C-71	?	mafic fenitized breccia	breccia zones
	Meach Lake	45°31′	75°54′	C-70	920	carbonatite, mafic fenite	crescentic dykes, breccia nests
	Megiscane Lake	48°34′	75°53′	C-72	975	carbonatite, amphibolite	zoned complex (?)
	Chicoutimi	48°27′	71°10′	C-65	560	carbonatite	dykes
	Baie Comeau	49°32′	68°37′	C-66	?	carbonatite	dykes
	Mutton Bay	50°50′	58°55′	C-67	565	carbonatite	dyke
MIASKITIC SYENITE COMPLEXES	Kruger Mountain	49°00′	119°35′	S-R73	?	mafic nepheline syenite	zoned crescentic stock
	Copper Mountain	49°18′	120°31′	S-R126	198	syenogabbro, monzonite	zoned stock
	Marron Formation	49°06′	118°44′	S-R127	50	phonolite	flows
	Coryell intrusions			S-R128	50	mafic syenite	stocks, dykes

Group	NAME	Lat.	Long.	MAP NUMBER	AGE (m.y.)	ROCK TYPES	STRUCTURE
MIASKITIC SYENITE COMPLEXES	Kamloops	50°47′	120°08′	S-R115	?	nepheline-natrolite syenite	stock
	Goosly Lake	54°10′	126°10′	S-R74	49	alkaline gabbro, monzonite	stocks penetrating flows
	Rayfield River	51°17′	121°06′	S-R75	?	nepheline syenite	zoned stock (?)
	Galore Creek	57°12′	131°26′	S-R76	200	pseudoleucite syenite	composite stock
	Spotted Fawn Creek	64°25′	138°41′	S-R77	85	pseudoleucite syenite	dykes
	Verity	52°24′	119°09′	S-R129	?	sodalite syenite	dykes
	Crowsnest	49°30′	114°30′	S-R79	95	trachyte, analcite phonolite	flows, plugs, tuffs
	Cinder Lake	54°56′	94°50′	S-113	?	melanite syenite	?
	Poohbah Lake	48°20′	91°41′	S-80	?	mafic nepheline syenite	zoned pluton
	Sturgeon Lake	50°00′	90°45′	S-81	?	nepheline syenite	lenticular pluton
	Port Coldwell	48°45′	86°30′	S-C82	1015	gabbro, syenite, nepheline syenite	layered igneous complex
	Killala Lake	49°10′	86°30′	S-C83	1185	gabbro, syenite, nepheline syenite	zoned pluton
	Chipman Lake	49°55′	86°15′	S-C84	?	gabbro, syenite	zoned pluton (?)
	Herman Lake	48°17′	84°31′	S-85	?	nepheline syenite	elliptical stock
	Otto	48°04′	80°09′	S-86	1730	syenite, nepheline syenite	zoned stock
	Kirkland Lake	48°08′	80°02′	S-87	(2550)*	leucite syenite	flows, sills (?)
	Obedjiwan	48°40′	75°00′	S-88	950	nepheline syenite	zoned pluton
	Thomas Lake	60°10′	105°10′	S-89	?	nepheline syenite	?
	Sweetgrass Hills	49°00′	112°00′	S-90	50	lamprophyric mafic syenite	dykes
NEPHELINE SYENITE GNEISS COMPLEXES	Copeland Mountain	51°05′	118°25′	G-R96	50	nepheline syenite	gneissic layer
	Perry River	51°15′	118°45′	G-R95	?	nepheline syenite, carbonatite	gneissic layer
	Trident Mountain	52°08′	118°08′	G-R97	?	nepheline syenite	gneissic layer
	Kinbasket Lake	51°56′	117°58′	G-R132	?	nepheline syenite	lenticular mass
	Monmouth-Glamorgan	44°55′	78°20′	G-098	1060	nepheline gabbro, syenite	gneissic layers
	Faraday	45°00′	78°00′	G-099	(1000)*	nepheline syenite, and pegmatite	gneissic layers
	East Road	45°03′	77°47′	G-0100	(1000)*	nepheline syenite and pegmatite	gneissic layers
	York River	45°04′	77°45′	G-0101	(1000)*	nepheline syenite and pegmatite	gneissic layers
	Carlow-Monteagle	45°15′	77°45′	G-102		corundum and nepheline syenite	gneissic layers
	Mount St. Patrick	45°21′	76°54′	G-133	?	nepheline syenite	lenticle
	Admaston Tp.	45°27′	76°51′	G-0134		nepheline syenite	gneissic lenticle
	Wolfe Belt	45°05′	77°35′	G-0103	?	amphibolite, nepheline gneiss	gneissic layers
	Blue Mountain	44°41′	77°55′	G-0104	1285	nepheline syenite	lenticular pluton
	Ste-Véronique	46°32′	75°00′	G-106	?	nepheline gneiss	migmatitic lenticle
	Lac Rouge	46°25′	75°25′	G-107	?	nepheline syenite	trachytoid to gneissic fringe
	Lac Kensington	46°22′	75°45′	G-108	?	nepheline syenite	migmatitic lenticle
	Cabonga Reservoir	47°10′	76°29′	G-109	?	nepheline syenite	lenticle
	Lac Albanel	50°07′	73°02′	G-110	?	nepheline syenite	lenticular
	Manicouagan	51°27′	68°41′	G-135	?	alkaline anorthosite	very large lenticle
	Lake Harbour	63°08′	69°42′	G-111	?	nepheline-bearing marble	conformable bands
	Bigwood-Rutter	46°02′	80°39′	G-105	?	nepheline syenite	conformable lenses
AGPAITIC SYENITE COMPLEXES	Kipawa River	46°47′	78°27′	A-91	?	eudialite syenite	lenticles in conformable syenite
	Mount St-Hilaire	45°30′	73°10′	A-94	95	sodalite syenite	zoned plug with pegmatite
	North Red Wine	54°07′	62°23′	A-95	1300	agpaitic amphibolite	layered intrusion
	South Red Wine	53°54′	62°42′	A-92	(1300)*	agpaitic amphibolite	layered intrusion
	Mann-1	54°14′	62°24′	A-114	(1000)*	agpaitic fenites	rheomorphic fenite
	Mann-2	54°12′	62°29′	A-136	(1300)*	agpaitic amphibolite	allochthonous block



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1369A

ALKALINE ROCKS OF CANADA

Scale 1:5,000,000

Miles 100 0 100 200 Miles

Kilometres 100 0 100 200 300 Kilometres

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EXPLANATORY NOTES

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Compiled by K.L. Currie 1972

To accompany GSC Bulletin 239, by K.L. Currie

Cartography by the Geological Survey of Canada.

LAMBERT CONFORMAL CONIC PROJECTION STANDARD PARALLELS 49°N. AND 77°N.; MODIFIED POLYCONIC PROJECTION NORTH OF LATITUDE 80°.

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