DUBAWNT GROUP
MARTELL SYENITE (?): massive pyroxene - amphibole - biotite syenite

GEOLOGICAL SURVEY OF CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

HE		
ARCHEAN APHEBIAN	7	Layered to nebulitic gneiss and migmatite, containing sheets and dykes of granite, aplite, and pegmatite; largely biotite leucogneiss and pink granitic gneiss; may be in part equivalent to As, Af, 3, and 5; 7a, pink orthogneiss; gneissic granite and adamellite; may be largely derived from 3 and/or 5; 7b, pink porphyroblastic granitic gneiss and blastomylonites, distinguished from 7a by distinctive aeromagnetic character
	6	Layered to irregularly layered gneiss, predominantly hornblendic; alternating layers of grey amphibole-feldspar and grey biotite-quartz-feldspar gneiss in places; locally cut by dykes of granite and aplite; may in part be equivalent to Av, Am, 1, and 2; 6a, massive dark grey amphibolites, hornblendites, and metagabbro
	Aa	HURWITZ GROUP (Ad to Aa do not occur on this map) AMETO FORMATION: grey, green, and varicoloured mudstone, siltstone, slate, argillite, and greywacke, locally tuffaceous, minor greenstones; includes gabbro sill
	Ak	KINGA FORMATION: white, pink, and grey orthoquartzites, minor impure quartzite, oligomictic conglomerate and grit
	Ар	PADLEI FORMATION: grey, polymictic conglomerate and bouldery to pebbly mudstone; minor rythmically layered mudstone, siltstone, argillite and slate
	Am	MONTGOMERY LAKE SEDIMENTS Impure, grey and green, pyrite, quartz arenites, grit, siltstone, and oligomictic conglomerate; minor basal polymictic conglomerate and greywacke
	Ad	Porphyritic (plagioclase) diabase and metadiabase, post Kenoran and pre-Hurwitz; relation with Am and A'q unclear; Ad', metadiabase and metagabbro dykes; south of 62° 25'N may be equivalent to Ad, many north of this may be substantially younger
	5	Massive, equigranular, pink granite; locally grades into migmatites with A's and A'q; may be Kenoran and/or Hudsonian in age; younger than 3
	A'q	MACKENZIE LAKE METASEDIMENTS Metamorphosed arkose, granite- and quartz-pebble conglomerate, impure quartzite; pink and grey schist and gneiss; relation to Hurwitz Group and Montgomery Lake sediments not known; A'qn, layered quartzofeldspathic gneiss and pink granitic gneiss; nebulitic granite gneiss; migmatite formed from A'q and 5
	3	Chiefly massive, homogeneous pink, porphyritic (microcline) biotite adamellite; minor pink granite, granodiorite, and pegmatite; younger than 2; 3a, pink, medium-grained, nonporphyritic adamellite; 3b, chiefly massive, pink granodiorite; minor quartz diorite; 3' and 3b', orthogneiss derived from 3 and 3b in Hudsonian Orogeny; locally cut by granitic dykes (3a, 3b, 3b' do not occur on this map)
	2	Chiefly massive, grey hornblende tonalite; minor leucodiorite and grey biotite-hornblende granodiorite; minor agmatite with Av and 1; younger than 1; 2', fine-grained, recrystallized tonalite or granodiorite; orthogneiss derived from 2 in Hudsonian Orogeny; locally cut by granite and aplite dykes
	1	Chiefly grey hornblende diorite or leucogabbro; minor tonalite and agmatite with Av; 1', fine- to medium-grained biotite-hornblende diorite orthogneiss; derived from 1 in Hudsonian Orogeny; locally cut by granitic dykes
	As	KAMINAK GROUP Greywacke and slate, in part graded; minor tuff, and/or tuffaceous greywacke, volcanic pebble conglomerate, argillite and iron-formation; locally contains felsic volcanics; As', biotite schist and leucogneiss derived from As in the Hudsonian Orogeny; locally contains garnet, andalusite, cordierite, and sillimanite; Asn, grey and pink leucogneiss and schist, lit-par-lit granitic migmatites (A's + 5); grades into As' to which it may in part be equivalent (As does not occur on this map)
	Av	Undifferentiated volcanic rocks, largely pillowed volcanics and agglomerates; includes mafic and felsic flows (Am + Af); Avs, undivided volcanic and sedimentary rocks; Av', intercalated amphibolitic and quartzo-feldspathic schist; Avn, layered mafic schist and gneiss with layers of quartzofeldspathic gneiss; minor metagabbro and metavolcanics with relict structures
	Af	Felsic tuff, agglomerate, flow breccia; includes associated quartz and quartz-feldspar porphyry intrusions (Af does not occur on this map)
	Am	Massive or pillowed basaltic and andesitic greenstones; includes associated mafic intrusions; Amg, undivided mafic flows and gabbroic sills; Am', predominantly amphibolitic greenstones, amphibole schist and gneiss; minor metagabbro and quartzofeldspathic schist; Amn, amphibole gneiss, in places intercalated with quartzofeldspathic gneiss; minor metagabbro (Amn does not occur on this map)
` `	- 18:	and the
		overed area
	Geolog	ical boundary (gradational)
	Beddin	g, tops known (inclined, overturned, dip unknown)
	Foliation, cleavage, schistosity (inclined, vertical)	
	mei	on defined by mineral orientation in ssic rocks, commonly called gneissic tion (inclined, vertical)
	Compo	sitional layering, metamorphic layering, monly called gneissic layering lined, vertical, dip unknown)
	Minera	l lineation (inclined)
	(mir	on, foliation-layering intersection or foldaxes)
	•	defined, approximate, assumed)
		pyrite, gossan
		iron-formation
		pyrrhotite
		Geology by R. T. Bell, 1968

To accompany Paper 70-61 by R. T. Bell

This preliminary edition may be subject to revision and correction

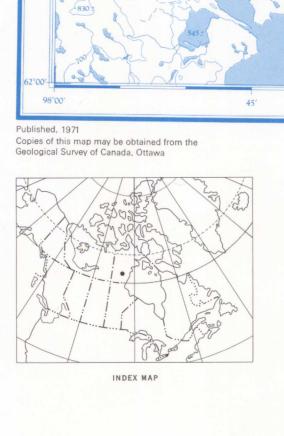
Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment, R.C.E. in 1966

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Magnetic declination 1970 varies from 5°00' easterly at centre of east edge to 7°45' easterly at centre of west edge. Mean annual change increasing 5.4' annually



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Elevations in feet above mean sea-level 6/2 Cogy 55 C This map has been produced from a scanned version of the original map Reproduction par numérisation d'une carte sur papier