

OPEN FILE 3781
EGS 1999-04
GEOLOGY
NORTHERN ANGIKUNI LAKE AREA
NUNAVUT
Scale 1:50 000 - Échelle 1:50 000
Geology by L.B. Aspler, J.R. Charetzki, 1996, 1997, 1998; L.B. Cousens, and K.B. Powell, 1997
Geological compilation by L.B. Aspler, 1998
Co-ordinated through the auspices of the NATMAP Western Churchill Project
Digital cartography by R.L. Allen, Geoscience Information Division
Geoscience Information Division
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada
Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division
The proximity of the North Magnetic Pole causes the magnetic compass to be erratic in this area
Magnetic declination 1999, 7° 33' E, decreasing 11.6' annually

LEGEND
MESOPROTEROZOIC
MACKENZIE DIABASE
Paleoproterozoic
DUBAWNT SUPERGROUP, BAKER LAKE GROUP
Archean
TECTONITES
INTRUSIVE ROCKS AND ALLIED GNEISSES
HENK GROUP
Geological boundary (dashed, approximate)
Fault (dashed, approximate)
Axial trace (dotted, syncline)
Outcrop
Bedding
Gneiss (paleo- to lower Archean, strike and dip [unclear])
Foliation in plutonic rocks, unspaced generation, strike and dip [unclear]
Foliation in supracrustal rocks, unspaced generation, strike and dip [unclear]
Mylonite foliation, strike and dip [unclear]
Shear sense indicator
Stretching direction (arrows and plunging)
Gossan (with sample site number)
Age

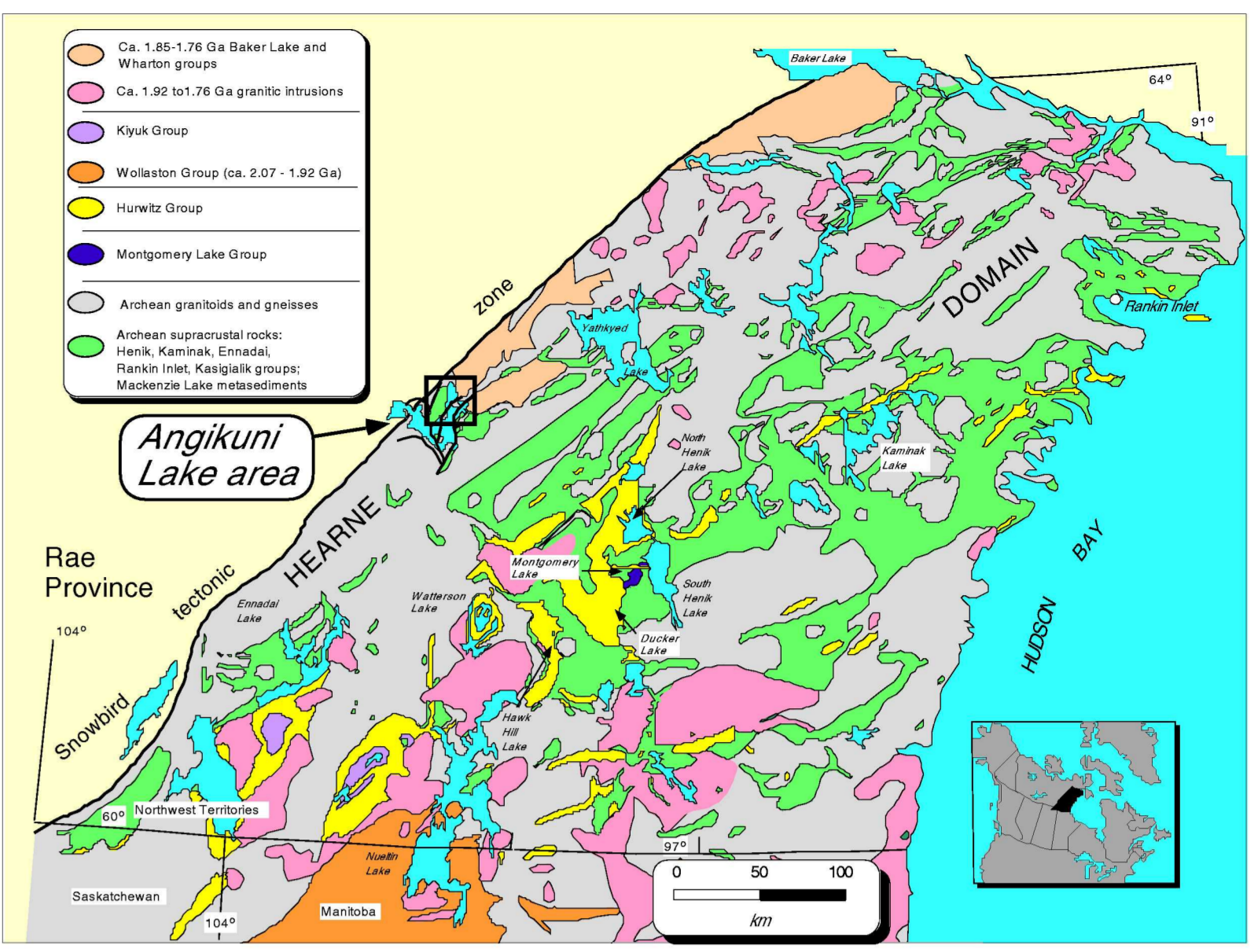


Figure 1. Simplified geology of Heame Domain and location of study area

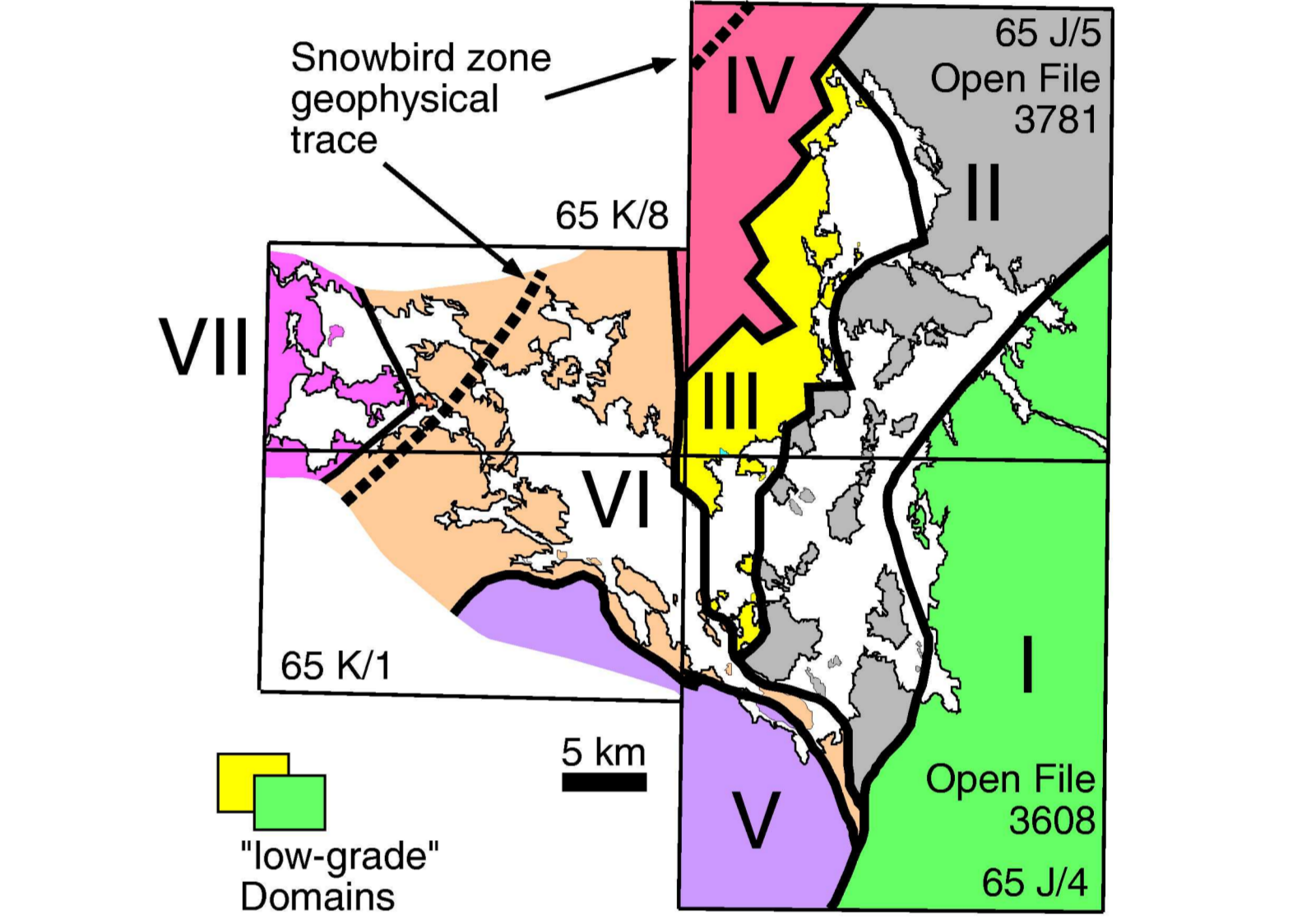


Figure 2. Archean lithostructural domains, Angikuni Lake

Table 1. Geochemistry of grab samples from gossans. ICP-MS by Acme Analytical Laboratories Ltd., Vancouver

Site	Easting/Northing	Sample	Lithology	Au	Ag	Pt	Pd	Cu	Pb	Zn	Ni	Cr	V	Mn	Fe	Mn	Co	As	Hg	W	Mg	Sb	U
				ppb	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	0.01 %	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	483450/892555	97-25-23	subhedral veins	< 2	0.3	1	1	1	3	1	1	1	1	1	1.93	27	2	5	< 1	2	0.04	< 3	< 8
2	483500/892550	97-25-24	in Christopher Island	< 2	< 0.3				8	12	3	8	12	7	2	< 1	4	0.04	< 3	< 8			
3	483500/892485	97-25-27	Formation arkose	< 2	< 0.3				6	4	6	14	5	2	1.92	62	3	< 2	2	0.01	< 3	< 8	
4	448700/890615	96-43-31	pyritic quartz	14	0.4	2	1	195	19	43	898	496	155	4	22.55	1116	40	259	2	4	0.79	< 5	
5	448350/890685	96-43-37	pebble	8	< 0.3	3	5	192	21	34	565	274	82	5	17.59	414	90	383	< 1	3	0.48	< 2	
6	452000/890575	96-43-44	conglomerate	5	< 0.3	5	3	117	11	36	641	1088	116	2	20.04	553	79	55	< 1	< 2	0.58	< 2	
7	452450/890765	97-51-13	subhedral-carbonate altered mafic volcanic	< 2	1.5			180	46	5	1781	1166	< 3	< 1	1.92	676	194	151	< 1	< 2	0.33	< 3	
8	456600/890785	96-33-14a	subhides in quartz veins and lenses in mafic volcanic rocks	7	< 0.3			521	30	1014	477	89	14	4	13.03	366	82	9	< 1	< 2	1.69	4	
9	462500/890890	96-31-30b	Cu subhides in late quartz veins	46	3.2			12287	109	78	53	21	1	5	11.84	27	39	21	< 1	7	0.11	< 2	
10	463500/890470	96-29-3-b		< 2	18.3			54301	43	25	17	32	64	1	6.53	573	14	3	< 1	3	0.55	< 3	
11	471800/890215	97-56-27	subhides in iron formation	< 2	< 0.3			342	6	50	63	26	101	1	8.16	628	41	< 2	< 1	3	0.31	< 3	

81 80	81 70	81 60
81 80	81 80	81 80
81 81	81 81	81 81

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