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Title of article Rb-Sr geochronology and evolution of the Grenville Province
in northwestern Quebec, Canada

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Appendix

Table 1. Rb-Sr isotopic data.

<u>Rock unit</u>	<u>Sample</u>	$\frac{87}{86} \frac{\text{Rb}}{\text{Sr}}$	$\frac{87}{86} \frac{\text{Sr}}{\text{Sr}}^*$
A. Quartzofeldspathic gneiss	71-13	0.307	0.7143
	71-14	0.482	0.7214
	71-15	0.281	0.7140
	71-16	0.023	0.7030
	71-19	0.039	0.7037
	72-1	0.904	0.7388
	B. Quartzofeldspathic gneiss	71-21	0.361
71-22		0.190	0.7099
71-23		0.034	0.7036
71-24		0.312	0.7138
71-25		0.298	0.7136
71-26		0.063	0.7049
72-2		0.238	0.7113
72-4		0.457	0.7189
72-5		0.075	0.7055
C. Quartzofeldspathic gneiss	71-30	0.331	0.7145
	71-33	0.463	0.7199
	71-34	0.548	0.7212
	71-39	0.368	0.7155
	71-40	0.438	0.7189
	71-44	0.042	0.7053
	71-45	0.417	0.7190

...continued

Appendix
Table 1 (cont.)

<u>Rock Unit</u>	<u>Sample</u>	$\frac{87}{\text{Rb}}/\frac{86}{\text{Sr}}$	$\frac{87}{\text{Sr}}/\frac{86}{\text{Sr}}^*$
C. continued	71-46	0.429	0.7174
	71-47	0.534	0.7219
	71-48	0.469	0.7195
	72-9	0.401	0.7181
	72-8	0.513	0.7232
D. "Syenite"	See Doig, 1975		
E. Quartzofeldspathic gneiss	72-14	0.470	0.7209
	72-19	0.562	0.7255
	72-22	0.364	0.7215
	72-25	0.598	0.7274
	72-26	0.208	0.7213
	72-29	0.495	0.7212
	72-30	0.330	0.7272
F. Granite	71-76	0.994	0.7473
	71-77	0.769	0.7391
	71-78	0.462	0.7190
	71-79	1.031	0.7469
	71-80	0.727	0.7412
	71-81	1.041	0.7474
G. Quartzofeldspathic gneiss	72-44	0.181	0.7095
	72-45	0.240	0.7116
	72-46	0.199	0.7116

... cont.

Appendix
Table 1 (cont.)

<u>Rock Unit</u>	<u>Sample</u>	$\frac{87}{86}\frac{\text{Rb}}{\text{Sr}}$	$\frac{87}{86}\frac{\text{Sr}}{\text{Sr}}^*$
G. Quartzofeldspathic gneiss (cont.)	72-47	0.227	0.7104
	72-48	0.075	0.7073
	72-49	0.170	0.7080
	72-50	0.109	0.7069
H. Granitic gneiss	73-41	1.039	0.7340
	73-42	1.206	0.7341
	73-43	0.843	0.7289
	73-45	0.626	0.7219
	73-47	1.373	0.7454
	73-48	1.749	0.7525
I. Quartz ^o _^ feldspathic gneiss	73-28	0.296	0.7149
	73-32	0.113	0.7080
	73-33	0.161	0.7103
	73-40	1.062	0.7490
J. Apebian meta- sedimentary rocks	73-61A	0.309	0.7117
	73-61B	0.070	0.7058
	73-62	0.176	0.7087
	73-63	0.116	0.7065
	73-64	0.579	0.7174
K. Charnockite	71-92	7.066	0.8760
	71-93	5.961	0.8687

... continued

Appendix

Table 1 (cont.)

<u>Rock Unit</u>	<u>Sample</u>	<u>$^{87}\text{Rb}/^{86}\text{Sr}$</u>	<u>$^{87}\text{Sr}/^{86}\text{Sr}^*$</u>
K. Charnockite	72-35	7.184	0.8887
(cont.)	72-36	9.573	0.9382
	72-37	7.252	0.8893
	72-38	8.205	0.9078
L. Granite	73-49	2.910	0.7767
	73-50	22.56	1.1003
	73-52	4.779	0.8026
M. Charnockite	73-54	0.427	0.7141
	73-55	1.366	0.7297
	73-57	1.506	0.7317
	73-58	1.723	0.7350
	73-59	1.245	0.7288

* Normalized to $^{86}\text{Sr}/^{88}\text{Sr} = 0.1194$

Appendix Table 2.

Representative chemical analyses.

<u>OXIDE</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
SiO ₂	60.20	69.08	65.46	69.51	72.44	70.91	59.52	72.16
TiO ₂	0.77	0.44	0.36	0.37	0.51	0.65	0.85	0.79
Al ₂ O ₃	18.78	15.66	17.45	16.86	14.55	12.95	17.99	12.28
Fe ₂ O ₃	7.25	2.51	3.14	1.91	1.75	6.82	8.91	4.00
MgO	3.49	1.25	2.05	0.50	0.36	0.10	0.50	0.00
CaO	2.85	3.47	3.63	1.15	0.96	0.54	2.52	0.81
Na ₂ O	4.21	6.32	6.49	4.56	4.25	3.50	4.24	4.79
K ₂ O	2.39	1.20	1.26	5.04	5.18	4.55	5.40	5.13
P ₂ O ₅	0.10	0.06	0.15	0.10	0.00	0.00	0.07	0.04

Notes:

The analyses were obtained using X-ray fluorescence methods, and were normalized to a total of 100%.

1- Average of two analyses of mesocratic thickly layered gneiss, isochron locations B and C (Fig. 2).

2- Leucocratic quartzofeldspathic gneiss, one km. south of location F. Single analysis.

3- Tonalite, four km. south of location E.

4- Granite layer, location F. Six samples were pooled before analysis.

continued -----

Appendix Table 2.

(continued)

- 5- Microcline-rich quartzofeldspathic gneiss, location H.
Single sample.
- 6- Granite layer at location L. Four samples pooled
before analysis.
- 7- Charnockite from location M. Four samples pooled
before analysis.
- 8- Charnockite from location K. Two samples pooled
before analysis.