BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

RECORD

Record 1985/12

CHEMICAL ANALYSES OF ROCKS FROM EAST ANTARCTICA : PART 2

by

J.W. Sheraton

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CONTENTS

INTRODUCTION

This Record lists chemical analyses of rock samples from Antarctica included in an earlier Record (1981/14), as well as much new data. The analysed rocks comprise medium to high-grade metamorphics and a variety of felsic and mafic igneous rocks, mostly of Precambrian age but including some Phanerozoic intrusives and extrusives. The majority were collected between 1972 and 1982 by BMR geologists taking part in regional geological investigations in the western part of Australian Antarctic Territory (45° - 80°E), although data from other areas, particularly North Victoria Land, are also included. Further details of these studies are given in the cited references.

Analytical methods

SiO_2, TiO_2, Al_2O_3, Fe_2O_3 (total), MnO, MgO, CaO, Na_2O, K_2O, P_2O_5, Ba, Rb, Sr, Pb, Th, U, Zr, Nb, Y, La, Ce, Sn, V, and Ga were determined in the BMR laboratories, using Philips PW-1210 or PW-1450 automatic X-ray spectrometers. Major elements (excluding Na_2O) were measured on fusion discs using the technique of Norrish & Hutton (1969); Na_2O analyses were carried out on pressed powder pellets. Analyses of trace elements were also made on powder pellets, with either direct measurement on the mass absorption coefficient or its estimation from Compton scattered tube lines (Norrish & Chappell, 1977). Empirical interfering element corrections were made where necessary. Detection limits (Table 1) were calculated at the 95 percent confidence level for detection of peak above background, using the relation given by Jenkins & de Vries (1967), although in practice detection limits will be slightly higher than this, particularly in cases where there are significant inter-element interferences.

Table 1. Detection limits (in percent for major oxides and ppm for trace elements)

SiO_2	0.02
TiO_2	0.004
Al_2O_3	0.03
Fe_2O_3	0.01
MnO	0.005
MgO	0.11
CaO	0.006
Na_2O	0.11
K_2O	0.002
P_2O_5	0.006
Ba	3
Rb	1
Sr	1
Pb	1
Th	1
U	0.5
Zr	1
Nb	1
Y	1
La	2
Ce	3
Sn	1
V	1
Cr	3
Ni	2
Cu	2
Zn	2
Ga	1

$$\text{Detection limit} = \frac{3c}{(Rp-Rb)} \sqrt{\frac{Rb}{t}},$$

where Rp = Peak count rate (counts/sec),

Rb = Background count rate (counts/sec),

t = Background counting time (secs),

c = Concentration of element

Cr, Ni, Cu, Zn, and some Na_2O determinations were made by atomic absorption spectrophotometry in the BMR laboratories. H_2O^+, H_2O^-, CO_2 (gravimetric), and ferrous iron (volumetric) were determined either by the Australian Mineral Development Laboratories, Adelaide, or at BMR.

Precision and accuracy

Precision of the X-ray fluorescence technique is generally good. The effects of all but very short-term drift in machine conditions were practically eliminated by ratioing each measurement to a reference standard. Each determination was carried out in duplicate (using the same sample), and, in cases where significant differences occurred between duplicates, the determination was repeated. Replicate sample precision was checked by running duplicate samples, and was found to be within acceptable limits ($\pm$ 1% for fusion discs, and generally better for powder pellets).

Accuracy was assessed by analysing international rock standards. Comparisons of XRF and AA results with recommended values for two standard rocks (CRPG granite GH and USGS andesite AGV1) are given in Table 2. For most major elements, agreement between recommended and XRF results is good (i.e., within $\pm$ 3 percent). For Na_2O and most trace elements (except near the detection limit), accuracy is of the order of $\pm$ 5-10 percent.

Table 2. Comparison of standard rock analyses. Recommended values from Abbey (1983). Values in brackets are magnitudes only.

	GH Recommended	BMR	AGVI Recommended	BMR
SiO_2	75.85	75.93	59.61	59.27
TiO_2	0.08	0.08	1.06	1.09
Al_2O_3	12.51	12.59	17.19	17.15
$^{+}Fe_2O_3$	1.34	1.37	6.81	6.86
MnO	0.05	0.05	0.10	0.10
MgO	0.03	0.13	1.52	1.61
CaO	0.69	0.71	4.94	4.98
Na_2O	3.85	3.59	4.32	4.10
K_2O	4.76	4.75	2.92	2.91
P_2O_5	0.01	0.01	0.51	0.50
TOTAL	99.17	99.21	98.98	98.57
Ba	22	19	1200	1210
Rb	390	386	67	67
Sr	10	10	660	658
Pb	45	40	33	35
Th	(90)	76	6.4	7
U	(18)	16	1.95	1.9
Zr	150	152	230	236
Nb	(85)	90	(16)	14
Y	70	80	19	19
La	(25)	17	36	43
Ce	(50)	47	71	71
Sn	(10)	11	3.6	5
V	(5)	< 1	125	119
Cr	6	< 4	10	13
Ni	3	2	15	13
Cu	14	15	59	56
Zn	85	88	86	81
Ga	23	23	21	19

$^{+}$Total Fe as Fe_2O_3

Notes on analytical data

Analyses are listed firstly on the basis of the major area of East Antarctica from which the rocks were collected, then by approximate age, and finally by rock type. Each analysis has a number of headings, as follows:

1. BMR registered sample number.

2. Area: Enderby and Kemp Lands
   Mawson Coast (MacRobertson Land)
   NPCM - Northern Prince Charles Mountains (MacRobertson Land)
   SPCM - Southern Prince Charles Mountains (MacRobertson Land)
   Vestfold Hills (Princess Elizabeth Land)
   Prydz Bay Coast (Princess Elizabeth Land)
   Wilhelm II Land
   Bunger Hills
   North Victoria Land

3. Locality

4. Rock type: For each area and major chronological unit, analyses are listed in the following order:
   felsic gneisses
   mafic rocks (granulites, amphibolites, and anorthosites)
   ultramafic rocks
   metasediments (quartzites, pelites, etc.)
   granitic intrusives
   mafic intrusives and extrusives.

Owing to limitations of space, the following abbreviations are used:

Alk.,	Alkali	gran,	granite
Amphibol.,	Amphibolitised	granod,	granodiorite
Calc-sil.,	Calc-silicate	K,	K-rich
Ch,	Charnockite	tonal,	tonalite
gn,	gneiss	trond,	trondhjemite
bi,	biotite	ol,	olivine
cd,	cordierite	op,	orthopyroxene
ch,	chlorite	os,	osumilite
cp,	clinopyroxene	phl,	phlogopite
ctd,	chloritoid	pl,	plagioclase
gt,	garnet	px,	pyroxene
hb,	hornblende	qz,	quartz
kf	alkali feldspar	sa,	sapphirine
ky,	kyanite	si,	sillimanite
mp,	mesoperthite	sp,	spinel
mus,	muscovite	st,	staurolite

5. Additional data: I, II and III refer to the three main groups of Proterozoic tholeiite dykes from Enderby Land and the Vestfold Hills, as defined by Sheraton & Black (ref. 9) and Collerson & Sheraton (ref. 17). D and Un refer to the depleted and undepleted felsic orthogneiss suites respectively, of Sheraton & Black (ref. 6); the Op gneiss and Gt gneiss classifications are also those used by these authors.

6. Age: Only generalised ages are given, e.g., Archaean, Proterozoic, etc.

7. Bibliographic references are given below.

8. Analytical data for major oxides are given in weight percent; those for trace elements in parts per million. Where no FeO figure is given, Fe_2O_3 is total Fe as Fe_2O_3; where no H_2O^- figure is given, H_2O^+ is total water.

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REFERENCES

Numbers refer to the Bibliographic Reference numbers in the analytical tables. Un-numbered references are those cited in this text.

1. TINGEY, R.J, ENGLAND, R.N., & SHERATON, J.W., 1981 - Geological work in Antarctica, 1973 - the southern Prince Charles Mountains. Bureau of Mineral Resources, Australia, Record 1981/43 (unpublished).

2. TINGEY, R.J., 1982 - The geological evolution of the Prince Charles Mountains - an Antarctic Archaean cratonic block. In CRADDOCK, C. (editor), Antarctic geoscience. University of Wisconsin Press, Madison, 455-464.

3. SHERATON, J.W., 1980 - Geochemistry of Precambrian metapelites from East Antarctica: secular and metamorphic variations. BMR Journal of Australian Geology and Geophysics, 5, 279-288.

4. ELLIS, D.J., SHERATON, J.W., ENGLAND, R.N., & DALLWITZ, W.B., 1980 - Osumilite-sapphrine-quartz granulites from Enderby Land, Antarctica - mineral assemblages and reactions. Contributions to Mineralogy and Petrology, 72, 123-143.

5. SHERATON, J.W., OFFE, L.A., TINGEY, R.J., & ELLIS, D.J., 1980 - Enderby Land, Antarctica - an unusual Precambrian high-grade metamorphic terrain. Journal of the Geological Society of Australia, 27, 1-18.

5. SHERATON, J.W., TINGEY, R.J., BLACK, L.P., OFFE, L.A., & ELLIS, D.J., in press - The geology of a Precambrian high-grade metamorphic terrain - Enderby Land and western Kemp Land, Antarctica. Bureau of Mineral Resources, Australia, Bulletin.

6. SHERATON, J.W., & BLACK, L.P., 1983 - Geochemistry of Precambrian gneisses: relevance for the evolution of the East Antarctic Shield. Lithos, 16, 273-296.

7. SHERATON, J.W., & CUNDARI, A., 1980 - Leucitites from Gaussberg, Antarctica. Contributions to Mineralogy and Petrology, 71, 417-427.

8. SHERATON, J.W., & ENGLAND, R.N., 1980 - Highly potassic mafic dykes from Antarctica. Journal of the Geological Society of Australia, 27, 129-135.

9. SHERATON, J.W., & BLACK, L.P., 1981 - Geochemistry and geochronology of Proterozoic tholeiite dykes of East Antarctica: evidence for mantle metasomatism. Contributions to Mineralogy and Petrology, 78, 305-317.

10. SHERATON, J.W., 1982 - Origin of charnockitic rocks of MacRobertson Land. In CRADDOCK, C. (editor), Antarctic geoscience. University of Wisconsin Press, Madison, 489-497.

11. WALKER, K.R., & MOND, A., 1971 - Mica lamprophyre (alnöite) from Radok Lake, Prince Charles Mountains, Antarctica. Bureau of Mineral Resources, Australia, Record 1971/108 (unpublished).

12. SEGNIT, E.R., 1957 - Sapphirine-bearing rocks from MacRobertson Land, Antarctica. Mineralogical Magazine, 31, 690-697.

13. SHERATON, J.W., 1984 - Chemical changes associated with high-grade metamorphism of mafic rocks in the East Antarctic Shield. Chemical Geology, 47, 135-157.

14. SHERATON, J.W., 1983 - Geochemistry of mafic igneous rocks of the northern Price Charles Mountains, Antarctica. Journal of the Geological Society of Australia, 30, 295-304.

15. SHERATON, J.W., & COLLERSON, K.D., 1983 - Archaean and Proterozoic geological relationships in the Vestfold Hills-Prydz Bay area, Antarctica. BMR Journal of Australian Geology and Geophysics, 8, 119-128.

16. SHERATON, J.W., & COLLERSON, K.D., 1984 - Geochemical evolution of Archaean granulite-facies gneisses of the Vestfold Block and comparisons with other Archaean gneiss complexes in the East Antarctic Shield. Contributions to Mineralogy and Petrology, 87, 51-64.

17. COLLERSON, K.D., & SHERATON, J.W., in prep. - Proterozoic dyke emplacement in Gondwanaland: age and geochemical characteristics of a mafic dyke swarm in the Archaean Vestfold Block, Antarctica.

18. SHERATON, J.W., BLACK, L.P., & McCULLOCH, M.T., 1984 - Regional geochemical characteristics of high-grade metamorphics of the Prydz Bay area: the extent of Proterozoic reworking of Archaean continental crust in East Antarctica. Precambrian Research, 26, 169-198.

19. SHERATON, J.W., ELLIS, D.J., & KUEHNER, S.M., 1984 - Rare-earth element geochemistry of Archaean gneisses and evolution of the East Antarctic Shield. BMR Journal of Australian Geology and Geophysics, 9.

20. PLUMMER, C.C., BABCOCK, R.S., SHERATON, J.W., ADAMS, C.J.D., & OLIVER, R.L., 1983 - Geology of the Daniels Range, Northern Victoria Land, Antarctica: a preliminary report. In OLIVER, R.L., JAMES, P.R., & JAGO, J.B. (editors), Antarctic earth science. Australian Academy of Science, Canberra, 113-117.

20. BABCOCK, R.S., PLUMMER, C.C., SHERATON, J.W., & ADAMS, C.J., in press- Geology of the Daniels Range, North Victoria Land, Antarctica. American Geophysical Union.

21. SHERATON, J.W., ENGLAND, R.N., & ELLIS, D.J., 1982 - Metasomatic zoning in sapphirine-bearing granulites from Antarctica. BMR Journal of Australian Geology and Geophysics, 7, 269-273.

22. BLACK, L.P., SHERATON, J.W., & McCULLOCH, M.T., in prep. - Late Archaean granites of the Napier Complex, Enderby Land, Antarctica: a comparison of Rb-Sr, Sm-Nd, and U-Pb zircon isotopic systematics in a complex terrain.

23. SANDIFORD, M., & WILSON, C.J.L., in prep. - The origin of Archaean gneisses in the Fyfe Hills region, Enderby Land; field occurrence, petrography and geochemistry.

ABBEY, S., 1983 - Studies in "standard samples" of silicate rocks and minerals, 1968-1982. Geological Survey of Canada Paper 83-15.

JENKINS, R., & De VRIES, J.L., 1967 - Practical X-ray spectrometry. Philips, Eindhoven.

NORRISH, K., & CHAPPEL, B., 1977 - X-ray fluorescence spectrometry. In ZUSSMAN, J. (editor), Physical methods in determinative mineralogy. Academic Press, London & New York, 201-272.

NORRISH, K., & HUTTON, J.T., 1969 - An accurate X-ray spectrographic method for the analysis of a wide range of geological samples. Geochimica et Cosmochimica Acta, 33, 431-453.

ANALYTICAL DATA

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	76283022	76283033	76283203	77283428	77283914	77283959	77283974	77284114	77284323	77284327
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Douglas	Mount Douglas	Mount Ryder	Mt Riiser-Larsen	Tonagh Island	Debenham Peak	Mount Bennett	Mount Arthur	Mount Brockelsby	Francis Peaks
Rock type	Bi-op-qz-pl gneiss	Op-qz-pl gneiss	Op-kf-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss
Additional Data	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6,19	5,6,19	5,6	5,6	5,6	5,6,19	5,6	5,6
SiO_2	64.30	63.50	70.80	73.30	63.50	71.10	67.50	64.20	66.60	69.80
TiO_2	0.49	0.65	0.43	0.35	0.62	0.39	0.29	0.60	0.71	0.39
Al_2O_3	12.62	14.29	14.76	13.94	16.64	15.26	16.24	15.28	15.55	15.33
Fe_2O_3	1.18	2.19	1.18	0.90	0.99	0.71	1.44	1.94	3.10	2.18
FeO	6.30	5.84	1.67	1.88	4.67	1.73	2.17	3.37	2.24	0.95
MnO	0.12	0.10	0.03	0.04	0.07	0.04	0.05	0.07	0.08	0.03
MgO	6.66	4.11	0.84	1.04	2.63	1.11	2.13	2.63	1.01	1.14
CaO	4.18	2.97	3.72	3.82	5.67	4.32	3.08	5.05	4.06	3.52
Na_2O	2.60	4.26	4.53	4.08	3.61	4.08	6.16	4.30	4.31	4.35
K_2O	0.80	1.35	1.52	0.98	1.05	0.76	0.55	1.30	1.24	1.81
P_2O_5	0.16	0.03	0.07	0.08	0.32	0.08	0.02	0.17	0.18	0.17
H_2O+				0.25	0.17	0.16	0.38	0.26	0.16	0.30
H_2O-				0.09	0.11	0.11	0.07	0.14	0.07	0.08
CO_2										
Rest	0.30	0.23	0.17	0.16	0.23	0.16	0.32	0.21	0.10	0.17
TOTAL	99.71	99.52	99.72	100.91	100.28	100.01	100.40	99.52	99.41	100.22
Ba	836	494	713	674	864	641	1860	741	386	656
Rb	52	38	15	4	3	1	1	14	6	40
Sr	317	370	292	295	549	458	435	386	147	252
Pb	10	17	9	9	11	8	18	10	11	16
Th	12	25	4	<1	<1	<1	1	1	11	13
U	2	1	<1	<1	<1	<1	<1	<1	1	<1
Zr	122	187	196	144	95	105	217	153	88	182
Nb	6	8	7	2	3	2	1	4	5	5
Y	19	14	2	3	13	6	2	15	24	11
La	26	45	59	18	32	21	22	25	19	43
Ce	47	75	80	21	56	26	30	38	37	70
Nd										
Sn	<1	<1	1	<1	1	1	<1	3	<1	<1
V	101	98	12	46	86	34	41	72	20	29
Cr	604	231	13	20	60	9	7	100	5	14
Ni	99	93	5	19	25	13	23	25	12	8
Cu	15	27	6	6	14	5	5	9	14	3
Zn	68	82	33	32	71	32	76	68	57	42
Ga	15	18	15	14	19	18	19	19	17	17

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77284374	77284617	77284620	77284658	77284696	77284700	77284803	77284826	77284858	77284580
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Kemp Land	Enderby Land
Locality	Zubchatyy Ice Shelf	Dick Peaks	Mount Dyke	Geoffrey Hills	Mount Henry	Gromov Ntks	Seaton Glacier	Mount Pardoe	Wallis Ntks	Francis Peaks
Rock type	Op-qz-pl gneiss	Px-kf-qz-pl gneiss	Op-qz-pl gneiss	Cp-op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Cp-op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss
Additional Data	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal	D tonal
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6,19	5,6	5,6	5,6,19	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	67.20	70.70	69.60	65.80	70.80	68.10	72.50	60.20	71.40	75.60
TiO_2	0.47	0.44	0.37	0.40	0.44	0.69	0.35	0.79	0.36	0.24
Al_2O_3	15.06	13.72	15.40	14.88	15.11	14.37	15.18	16.23	15.22	13.40
Fe_2O_3	1.88	2.49	0.96	1.45	1.79	1.78	0.86	3.68	0.89	1.18
FeO	3.35	1.76	1.74	2.68	1.03	3.64	1.10	3.67	1.17	1.24
MnO	0.08	0.04	0.04	0.06	0.03	0.07	0.02	0.09	0.02	0.03
MgO	1.99	1.10	1.02	2.89	0.86	1.88	0.51	3.45	1.01	0.47
CaO	4.14	3.63	3.59	5.48	2.70	4.32	3.82	6.71	4.47	3.61
Na_2O	4.31	3.47	4.75	4.02	5.12	3.87	4.42	3.75	4.25	4.04
K_2O	0.76	1.63	1.31	0.86	2.14	0.49	1.10	0.79	0.62	0.56
P_2O_5	0.08	0.10	0.09	0.14	0.16	0.14	0.03	0.31	0.10	0.03
H_2O+	0.25	0.34	0.30	0.29	0.33	0.17	0.31	0.25	0.42	0.13
H_2O-	0.06	0.06	0.03	0.09	0.01	0.03	0.05	0.08	0.08	0.06
CO_2										
Rest	0.14	0.21	0.17	0.20	0.20	0.15	0.15	0.20	0.15	0.09
TOTAL	99.77	99.69	99.37	99.24	100.72	99.70	100.40	100.20	100.16	100.68
Ba	456	1020	748	680	784	425	429	696	243	256
Rb	2	27	9	6	36	<1	7	5	3	2
Sr	349	358	376	412	501	310	364	418	509	270
Pb	5	12	7	8	15	3	6	9	3	4
Th	<1	3	<1	12	1	<1	1	<1	<1	1
U	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zr	64	147	100	97	137	171	257	153	328	89
Nb	3	2	2	3	3	5	4	5	3	4
Y	9	11	3	13	6	12	3	21	4	8
La	12	37	18	37	28	26	19	35	16	24
Ce	18	51	23	56	48	37	26	61	24	44
Nd										
Sn	<1	<1	<1	<1	<1	<1	1	1	<1	<1
V	64	48	32	72	29	60	14	27	11	15
Cr	47	14	15	91	18	48	12	80	5	8
Ni	18	8	14	54	13	26	5	60	13	2
Cu	24	6	7	21	5	10	5	30	11	3
Zn	66	40	45	42	45	62	30	62	28	27
Ga	18	14	18	16	18	17	18	19	17	13

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77284583	78285003B	78285007F	76283023	76283057	76283069	76283099	76283222	76283246	77283424
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Francis Peaks	Mount Tod	Mount Sones	Mount Douglas	Mount Pardoe	Mount Hurley	Mount Selwood	Mount Smethurst	Mount McGhee	Mt Riiser-Larsen
Rock type	Op-qz-pl gneiss	Op-qz-mp gneiss	Op-qz-pl gneiss	Op-qz-kf-pl gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Bi-qz-mp gneiss	Op-qz-mp gneiss
Additional Data	D tonal	?D tonal	D tonal	D granod	D granod	D granod	D granod	D granod	D granod	D granod
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6,19	5,6,19	5,6	5,6	5,6	5,6,19	5,6
SiO_2	72.40	60.80	66.90	68.40	72.70	66.20	71.80	70.40	72.40	70.50
TiO_2	0.41	0.85	0.42	0.33	0.27	0.51	0.32	0.35	0.10	0.27
Al_2O_3	14.46	14.95	16.90	15.79	14.19	15.02	14.13	14.70	14.31	15.17
Fe_2O_3	1.39	1.87	0.55	1.41	1.05	0.66	0.91	0.96	0.39	0.85
FeO	1.80	4.76	2.48	2.07	1.21	4.65	2.23	2.10	1.12	1.56
MnO	0.04	0.10	0.02	0.07	0.03	0.06	0.05	0.06	0.03	0.04
MgO	0.83	3.72	0.88	1.38	0.42	2.39	1.36	0.92	0.38	1.01
CaO	3.36	7.61	3.81	2.95	2.30	2.58	2.68	3.02	2.27	3.28
Na_2O	4.37	3.92	5.18	4.31	4.34	4.22	3.67	4.28	5.23	3.85
K_2O	1.40	1.11	1.95	2.84	3.12	2.37	2.60	2.66	2.42	2.80
P_2O_5	0.10	0.15	0.13	0.13	0.03	0.06	0.05	0.06	0.03	0.10
H_2O+	0.19									0.36
H_2O-	0.06									0.04
CO_2										
Rest	0.18	0.17	0.18	0.33	0.19	0.23	0.26	0.14	0.15	0.20
TOTAL	100.99	100.01	99.40	100.01	99.85	98.95	100.06	99.65	98.83	100.03
Ba	937	565	659	1610	1060	905	1250	557	898	1190
Rb	11	8	31	47	60	51	54	41	43	26
Sr	199	154	323	727	177	338	426	223	289	283
Pb	10	9	11	25	23	26	22	11	10	15
Th	1	7	3	9	20	10	7	6	<1	<1
U	<1	1	1	<1	1	1	<1	<1	<1	<1
Zr	166	121	183	145	122	139	134	105	21	45
Nb	3	7	8	3	8	8	3	7	<1	<1
Y	10	29	5	9	10	11	12	8	2	3
La	39	35	61	33	42	45	35	26	11	27
Ce	56	55	90	52	63	74	61	40	14	31
Nd		26	29							
Sn	<1			<1	<1	<1	<1	<1	<1	<1
V	33	155	20	36	11	76	42	18	6	30
Cr	9	46	7	33	5	106	60	32	8	24
Ni	5	38	9	15	3	38	32	9	6	14
Cu	14	46	6	5	3	26	24	6	3	6
Zn	36	59	39	47	39	59	33	39	20	30
Ga	14	16	17	18	16	18	15	17	15	15

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77283439	77284305	77284335	77284378	77284064	76283001	76283215	76283248	77283981	77284313
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Graham Peak	Mount Biscoe	Mount Letten	Zubchatyy Ice Shelf	Johnston Peak	Mount King	Mount Denham	Burch Peaks	Mount Bennett	Mount Oldfield
Rock type	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Bi-op-qz-pl gneiss	Op-qz-mp gneiss	Bi-qz-kf gneiss	Op-qz-mp gneiss	Op-qz-kf gneiss	Op-qz-mp gneiss
Additional Data	D granod	D granod	D granod	D granod	D granod	D granite	D granite	D granite	D granite	D granite
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	1,5,19	5,6	5,6	5,6	5,6,19
SiO_2	74.80	69.10	69.90	67.40	64.40	71.70	75.40	73.00	78.50	76.20
TiO_2	0.11	0.35	0.31	0.44	0.53	0.26	0.06	0.33	0.20	0.15
Al_2O_3	13.72	15.85	13.50	15.29	16.77	14.48	13.28	13.72	10.37	12.40
Fe_2O_3	0.76	1.42	2.00	1.28	0.46	0.73	0.29	0.88	0.96	0.64
FeO	0.51	1.81	1.82	2.72	3.17	1.30	0.47	1.09	1.03	0.94
MnO	0.01	0.04	0.05	0.04	0.06	0.03	0.02	0.04	0.02	0.03
MgO	0.49	0.89	2.39	1.77	3.22	0.91	0.12	0.36	0.90	0.62
CaO	2.37	3.06	2.56	2.97	5.67	2.67	1.25	1.53	0.78	1.82
Na_2O	4.09	4.69	3.67	3.61	3.09	3.04	2.37	3.25	2.78	3.22
K_2O	3.02	2.95	3.00	3.17	2.44	4.24	6.55	5.42	4.27	3.57
P_2O_5	0.02	0.16	0.03	0.02	0.13	0.02	0.01	0.02	0.01	0.03
H_2O+	0.21	0.23	0.17	0.45	0.25				0.48	0.29
H_2O-	0.08	0.13	0.03	0.08	0.04				0.09	0.07
CO_2										
Rest	0.26	0.16	0.23	0.38	0.26	0.24	0.34	0.44	0.15	0.20
TOTAL	100.45	100.84	99.66	99.62	100.49	99.62	100.16	100.08	100.54	100.18
Ba	1840	639	1120	1900	991	1170	2470	2840	559	1150
Rb	25	49	67	55	76	67	273	109	110	59
Sr	264	171	258	474	333	274	130	204	73	181
Pb	13	27	26	34	7	24	33	38	41	19
Th	2	7	19	6	2	18	2	43	23	<1
U	<1	<1	1	2	2	<1	<1	1	7	<1
Zr	21	192	102	346	135	107	29	126	108	153
Nb	<1	3	3	5	3	3	1	6	5	1
Y	<1	9	2	7	6	4	5	7	8	1
La	19	28	39	47	13	138	36	167	23	34
Ce	16	38	49	65	22	165	36	210	28	41
Nd										
Sn	<1	1	<1	<1	<1	<1	<1	1	1	<1
V	15	31	34	73	77	9	4	12	28	19
Cr	9	11	87	83	240	42	13	7	156	7
Ni	13	14	26	64	102	28	5	3	47	9
Cu	4	7	14	15	3	8	4	7	2	28
Zn	15	45	47	41	65	25	7	22	34	21
Ga	12	19	17	16	17	15	12	17	12	12

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77284324	77284708	77284710	80285046B	78285005D	80285040I	76283074	76283273	77283985	77284622
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Brockelsby	Budd Peak	McLeod Ntks	Cape Batterbee	Ntk 945	Fyfe Hills	Mount Codrington	Mount Jewell	Grimsley Peaks	Mount Dyke
Rock type	Op-qz-kf gneiss	Op-qz-mp gneiss	Op-qz-kf gneiss	Bi-qz-mp gneiss	Op-qz-mp gneiss	Op-pl-qz-kf gneiss	Op-qz-pl gneiss	Cp-op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss
Additional Data	D granite	D granite	D granite	D granite	D granite	D granite	Un tonal	Un tonal	Un tonal	Un tonal
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6,19	5,6	5,6,19	5,6
SiO_2	74.00	74.00	75.50	73.30	73.70	74.90	63.70	59.20	64.70	64.20
TiO_2	0.17	0.18	0.20	0.29	0.18	0.16	1.05	1.22	0.74	0.91
Al_2O_3	14.07	14.06	13.09	13.74	13.81	13.57	12.78	12.39	15.14	15.30
Fe_2O_3	1.05	0.85	0.96	0.69	0.76	0.39	2.90	1.23	2.28	3.83
FeO	0.55	0.85	0.60	0.84	1.10	0.92	8.01	10.37	4.73	2.80
MnO	0.03	0.02	0.03	0.02	0.02	0.01	0.16	0.13	0.11	0.07
MgO	0.41	0.33	0.41	0.43	0.17	0.38	2.46	3.25	2.37	1.67
CaO	1.93	2.00	1.62	1.40	1.56	2.47	4.52	5.93	4.87	4.44
Na_2O	4.01	3.91	2.70	3.76	3.39	2.61	2.23	4.58	3.70	4.26
K_2O	4.07	4.03	5.55	4.78	5.17	4.63	1.32	0.87	0.81	0.88
P_2O_5	0.04	0.03	0.04	0.05	0.04	0.03	0.14	0.20	0.28	0.27
H_2O+	0.21	0.17	0.18						0.22	0.31
H_2O-	0.10	0.09	0.07						0.07	0.08
CO_2										
Rest	0.15	0.16	0.32	0.18	0.22	0.19	0.30	0.16	0.19	0.20
TOTAL	100.79	100.68	101.27	99.48	100.12	100.26	99.57	99.53	100.21	99.22
Ba	644	780	2190	736	1063	1063	1240	418	530	628
Rb	148	52	100	82	154	76	33	4	8	8
Sr	119	183	125	247	145	128	128	145	134	258
Pb	31	18	22	26	46	17	14	2	19	7
Th	29	8	20	22	43	5	21	2	39	11
U	4	<1	<1	1	2	1	1	<1	4	<1
Zr	100	120	126	174	132	87	337	215	253	270
Nb	4	4	1	12	3	2	17	11	18	10
Y	5	<1	2	1	5	6	39	36	57	40
La	33	46	49	77	76	43	74	54	43	56
Ce	49	58	63	114	115	54	119	87	84	95
Nd					34	14				
Sn	<1	<1	<1	<1			2	1	2	<1
V	10	6	23	2	9	9	195	123	96	71
Cr	17	7	7	<3	7	44	8	5	66	21
Ni	6	10	8	15	2	9	16	9	20	20
Cu	3	3	7	7	5	5	9	19	9	23
Zn	24	22	15	30	26	15	150	72	85	78
Ga	15	15	11	19	16	15	19	19	20	19

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77284498	76283227	76283253	76283274	77283980	77284360	77284397	76283006	76283018	76283075
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Enderby Land	Enderby Land
Locality	McLeod Ntks	Mount Paish	Mount Cordwell	Mount Jewell	Mount Bennett	Ward Rocks	Aker Peaks	Seavers Ridge	Seavers Ridge	Mount Codrington
Rock type	Op-qz-pl gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-pl gneiss	Op-qz-mp gneiss	Cp-op-qz-mp gneiss	Op-qz-kf gneiss
Additional Data	?Un tonal	Un trond	Un trond	Un trond	Un trond	Un trond	Un trond	Un granite	Un granite	Un granite
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6,19	5,6,19	5,6	5,6	5,6,19	5,6	5,6
SiO_2	65.30	76.60	71.40	71.90	75.10	70.90	77.80	66.40	65.70	74.40
TiO_2	1.39	0.47	0.81	0.61	0.56	0.92	0.13	1.28	1.30	0.32
Al_2O_3	14.45	10.63	11.02	11.14	11.35	11.51	11.96	12.92	12.88	10.70
Fe_2O_3	2.02	1.15	2.20	1.10	2.44	1.95	0.58	2.70	2.63	0.90
FeO	4.72	2.29	4.80	4.43	2.28	3.58	0.87	4.18	4.29	3.20
MnO	0.04	0.04	0.10	0.04	0.06	0.06	0.01	0.13	0.15	0.03
MgO	2.02	1.25	1.25	1.69	0.56	2.13	1.00	1.16	1.08	1.45
CaO	4.07	1.29	2.37	2.37	2.27	2.54	1.76	3.35	3.39	0.19
Na_2O	3.56	4.47	3.19	4.09	3.64	3.64	4.96	3.07	2.98	1.71
K_2O	2.01	1.75	2.66	2.06	1.99	1.78	1.05	4.26	4.18	6.10
P_2O_5	0.23	0.02	0.08	0.08	0.15	0.16	0.01	0.39	0.42	0.02
H_2O+	0.23				0.23	0.24	0.24			
H_2O-	0.11				0.01	0.06	0.12			
CO_2										
Rest	0.65	0.25	0.23	0.23	0.18	0.19	0.13	0.44	0.47	0.52
TOTAL	100.80	100.21	100.11	99.74	100.82	99.66	100.62	100.28	99.47	99.54
Ba	4230	970	1060	1060	740	718	204	2480	2730	2960
Rb	16	15	28	9	46	31	6	74	73	175
Sr	233	106	142	134	176	104	128	174	178	68
Pb	9	7	9	9	17	11	6	19	19	42
Th	10	22	<1	16	18	21	9	<1	<1	60
U	1	2	1	<1	2	3	1	<1	<1	4
Zr	533	560	371	386	234	304	419	529	507	745
Nb	21	27	13	14	9	15	4	22	22	28
Y	12	54	18	25	46	62	45	41	44	20
La	148	94	41	64	44	54	65	88	102	97
Ce	179	151	56	98	72	88	115	144	161	153
Nd										
Sn	<1	1	<1	<1	1	2	<1	<1	<1	1
V	59	<1	29	11	4	60	<1	51	52	2
Cr	10	9	7	13	4	10	4	9	10	15
Ni	42	6	64	26	10	14	20	7	9	<2
Cu	10	4	14	8	7	5	2	18	20	5
Zn	60	21	88	33	58	45	8	57	71	87
Ga	15	15	15	17	17	15	22	16	17	16

Napier Complex Pyroxene-Quartz-Feldspar Gneisses

Sample Number	76283084	76283085	76283094	76283228	77284304	77284667	77284669	77284670	77284675	78285004
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enddrby Land
Locality	Proclam-ation Is.	Proclam-ation Is.	Mount King	Mount Paish	Wordie Ntk	Proclam-ation Is.	Proclam-ation Is.	Proclam-ation Is.	Proclam-ation Is.	Grimsley Peaks
Rock type	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss	Op-qz-mp gneiss	Op-qz-mp gneiss	Op-qz-pl-kf gneiss	Hb-op-qz-kf gneiss	Op-qz-kf gneiss	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss	Op-pl-qz-kf gneiss
Additional Data	Un granite	Un granite	Un granite	Un granite	Un granite	Un granite	Un granite	Un granite	Un granite	Un granite
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6,22	5,6,22	5,6	5,6,19	5,6	5,6,22	5,6,22	5,6,22	5,6,22	5,6
SiO_2	68.00	68.00	69.10	75.30	69.10	74.30	74.70	71.60	66.60	74.60
TiO_2	0.96	0.78	0.97	0.44	0.74	0.35	0.37	0.90	1.11	0.20
Al_2O_3	12.46	13.59	12.93	10.55	14.09	12.06	11.89	11.46	13.08	13.56
Fe_2O_3	2.21	1.79	1.67	1.61	1.26	1.24	1.38	2.49	2.03	0.92
FeO	4.32	4.19	3.26	2.55	3.03	1.46	1.26	3.39	5.24	0.77
MnO	0.09	0.08	0.10	0.04	0.04	0.02	0.02	0.07	0.09	0.01
MgO	1.00	1.17	0.64	0.77	0.90	0.35	0.41	0.96	1.22	0.21
CaO	2.51	3.08	2.40	1.19	2.24	1.42	1.44	2.14	3.28	1.64
Na_2O	2.91	3.29	2.95	3.03	2.46	2.79	3.01	2.71	2.87	3.24
K_2O	5.25	3.74	5.25	3.50	5.62	5.03	5.03	4.29	3.89	5.02
P_2O_5	0.20	0.17	0.25	0.02	0.22	0.06	0.06	0.17	0.26	0.04
H_2O+					0.33	0.38	0.26	0.26	0.39	
H_2O-					0.07	0.10	0.12	0.13	0.11	
CO_2										
Rest	0.35	0.32	0.41	0.25	0.47	0.15	0.15	0.22	0.31	0.16
TOTAL	100.26	100.20	99.93	99.25	100.57	99.71	100.10	100.79	100.48	100.37
Ba	1810	1690	2410	984	2290	511	525	782	1470	720
Rb	112	82	101	40	149	167	149	104	86	165
Sr	130	84	128	77	160	60	44	54	86	86
Pb	8	9	20	10	31	13	14	10	8	35
Th	1	1	<1	17	67	5	5	1	<1	21
U	<1	<1	<1	2	<1	<1	<1	<1	<1	2
Zr	420	403	537	619	575	191	257	439	439	93
Nb	30	23	16	16	11	10	11	28	29	3
Y	76	54	25	21	8	51	45	64	77	23
La	52	41	41	73	244	49	43	40	60	47
Ce	103	83	62	113	359	83	73	82	113	71
Nd										21
Sn	1	1	<1	1	<1	<1	1	1	1	
V	35	38	24	<1	28	16	16	38	50	11
Cr	44	56	19	6	17	16	14	32	47	<3
Ni	18	24	6	<2	9	8	8	13	21	3
Cu	12	19	10	6	10	24	14	15	17	4
Zn	44	62	47	73	38	28	21	58	78	23
Ga	17	21	15	16	18	17	16	16	19	14

Napier Complex Biotite- and Pyroxene-Quartz-Feldspar Gneisses

Sample Number	77283406	77283407	77284117	77284610	77284615	77283999	77284301	77284074	77284538
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Marsland	Mount Marsland	Mount George	Mount Humble	Mount Humble	Mount Codrington	Mount Codrington	Mount Giddings	Mount Bergin
Rock type	Op-qz-mp gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Cp-op-qz-pl gneiss	Cp-op-qz-mp gneiss	Bi-qz-kf-pl gneiss	Bi-qz-mp-gneiss	Bi-qz-mp gneiss	Bi-qz-pl gneiss
Additional Data	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5	5	5	5	5	5	5	5	5
SiO_2	76.00	74.30	54.50	58.50	58.40	71.70	76.40	74.20	70.20
TiO_2	0.53	0.73	0.97	0.57	0.66	0.51	0.22	0.16	0.42
Al_2O_3	10.92	9.90	18.82	18.05	14.49	13.45	12.43	13.83	15.40
Fe_2O_3	0.41	0.69	3.24	2.33	2.98	0.89	0.71	0.68	1.34
FeO	1.22	1.48	4.91	3.40	3.93	2.53	0.98	0.93	1.97
MnO	0.02	0.02	0.10	0.10	0.10	0.04	0.02	0.03	0.04
MgO	3.39	5.48	3.37	3.58	4.00	0.83	0.25	0.36	1.11
CaO	1.21	1.78	6.83	5.22	5.57	2.96	1.31	1.70	3.63
Na_2O	5.05	3.90	4.72	5.27	4.03	3.58	3.15	3.72	4.90
K_2O	1.01	0.79	0.82	2.59	3.43	2.49	4.68	4.19	0.97
P_2O_5	0.02	0.02	0.28	0.43	0.52	0.13	0.02	0.04	0.13
H_2O+	0.28	0.33	0.26	0.34	0.48	0.17	0.18	0.30	0.44
H_2O-	0.02	0.02	0.09	0.11	0.06	0.07	0.03	0.02	0.06
CO_2									
Rest	0.12	0.15	0.18	0.49	0.56	0.16	0.19	0.15	0.14
TOTAL	100.20	99.59	99.09	100.98	99.21	99.51	100.57	100.31	100.75
Ba	171	240	374	1970	2430	648	942	788	504
Rb	12	12	3	17	52	67	141	97	9
Sr	82	70	557	1560	1480	103	59	115	320
Pb	2	9	6	29	30	18	26	25	8
Th	5	2	<1	<1	1	18	54	20	3
U	<1	<1	<1	<1	<1	2	4	2	<1
Zr	412	568	37	191	156	196	139	111	157
Nb	24	24	5	2	3	8	7	1	4
Y	34	38	14	12	21	20	25	2	3
La	20	47	24	43	55	42	69	34	23
Ce	35	72	41	67	94	68	105	48	37
Nd									
Sn	<1	<1	1	<1	1	<1	1	<1	<1
V	27	18	126	65	102	37	9	14	37
Cr	32	7	80	102	134	10	5	7	11
Ni	36	19	36	39	45	8	2	<2	6
Cu	3	5	17	7	10	36	26	3	5
Zn	13	29	90	69	82	46	27	26	50
Ga	11	12	24	20	18	15	12	15	17

Napier Complex Garnet-Quartz-Feldspar Gneisses

Sample Number	76283029	76283064	76283070	76283088	76283096	76283202	76283211	76283229	76283234	76283272
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Douglas	Mount Pardoe	Mount Hurley	Proclam-ation Is.	Mount Selwood	Mount Ryder	Mount Denham	Mount Paish	Mount Torckler	Mount Stadler
Rock type	Gt-qz-pl-kf gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-pl-kf gneiss	Op-gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-kf gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6,19	5,6	5,6	5,6	5,6	5,6,19	5,6	5,6	5,6,19
SiO_2	66.90	74.30	73.70	72.70	70.00	74.50	74.50	74.20	73.90	76.20
TiO_2	0.55	0.09	0.05	0.30	0.43	0.07	0.10	0.04	0.17	0.44
Al_2O_3	15.15	13.30	13.87	13.04	14.03	13.57	13.40	13.87	13.57	10.98
Fe_2O_3	1.70	1.16	1.08	1.11	2.21	0.97	0.87	0.27	0.46	2.23
FeO	3.38	0.67	0.40	2.37	2.52	0.91	0.67	0.79	1.38	2.80
MnO	0.09	0.04	0.05	0.05	0.08	0.07	0.04	0.02	0.03	0.09
MgO	1.74	0.17	0.42	1.47	1.81	0.65	0.22	0.12	0.32	0.18
CaO	2.84	1.33	1.02	1.48	2.93	1.36	1.05	0.88	1.12	1.71
Na_2O	3.75	3.71	3.33	2.30	3.50	3.40	3.77	3.99	3.94	2.15
K_2O	2.32	4.56	5.71	4.41	1.93	4.62	5.27	5.68	4.84	3.23
P_2O_5	0.04	<0.01	0.08	0.03	0.05	0.03	0.02	0.03	0.04	0.01
H_2O+										
H_2O-										
CO_2										
Rest	0.26	0.23	0.27	0.26	0.21	0.22	0.13	0.12	0.16	0.25
TOTAL	98.72	99.55	99.98	99.52	99.70	100.37	100.04	100.01	99.93	100.27
Ba	927	1410	1840	1220	769	1220	613	496	624	1360
Rb	45	120	129	145	30	156	191	205	263	65
Sr	529	101	265	78	371	147	61	65	54	76
Pb	20	36	39	47	17	43	45	39	35	27
Th	6	46	<1	54	3	33	6	4	31	3
U	<1	4	<1	3	<1	2	<1	<1	3	1
Zr	214	82	18	292	141	85	65	55	118	334
Nb	7	2	<1	12	4	3	1	<1	11	4
Y	42	42	24	68	17	37	19	11	24	63
La	24	39	38	82	37	42	48	46	56	55
Ce	36	56	43	143	64	77	74	71	103	68
Nd										
Sn	<1	<1	<1	1	<1	3	1	2	2	1
V	57	2	3	14	64	4	2	<1	4	<1
Cr	94	3	10	20	114	17	9	6	8	<3
Ni	42	<2	2	10	34	12	9	3	2	4
Cu	20	3	3	10	23	32	3	2	2	6
Zn	34	25	3	21	42	10	5	8	13	56
Ga	15	14	11	16	15	12	14	15	17	17

Napier Complex Garnet-Quartz-Feldspar Gneisses

Sample Number	76283283	77283417	77283435	77283913	77283944	77283965	77284306	77284832	77284842	77283963
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Jewell	Mt Riiser-Larsen	Mount Soucek	Tonagh Island	Mount Pardoe	Mount Charles	Mount Biscoe	Mount Trail	McIntyre Island	Debenham Peak
Rock type	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-mp gneiss	Bi-gt-qz-mp gneiss	Gt-qz-mp gneiss	Gt-qz-kf gneiss	Gt-qz-mp gneiss	Op-gt-qz-mp gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	75.20	74.90	73.80	74.50	74.90	73.30	76.10	75.00	75.10	73.90
TiO_2	0.02	0.04	0.06	0.13	0.15	0.31	0.02	0.11	0.06	0.84
Al_2O_3	13.13	13.09	13.58	13.49	13.61	12.05	13.70	13.39	13.58	11.20
Fe_2O_3	0.27	1.59	0.66	0.97	1.27	3.10	0.17	1.18	0.27	1.59
FeO	0.95	1.02	1.02	0.38	1.28	2.01	0.40	0.86	0.67	3.07
MnO	0.07	0.05	0.01	0.05	0.04	0.05	0.01	0.03	0.03	0.04
MgO	0.19	0.64	0.60	0.41	0.65	2.20	0.09	0.16	0.24	0.95
CaO	1.09	1.42	1.63	1.48	2.05	1.20	1.77	1.05	1.27	1.79
Na_2O	3.42	2.20	3.72	3.42	3.46	2.27	3.49	3.05	2.99	2.88
K_2O	5.14	5.09	3.53	4.49	2.87	2.75	4.29	5.55	5.66	3.16
P_2O_5	0.03	0.03	0.04	0.01	0.03	0.04	0.06	0.02	0.03	0.27
H_2O+		0.43	0.17	0.11	0.10	0.25	0.18	0.20	0.21	0.19
H_2O-		0.12	0.06	0.09	0.01	0.10	0.01	0.03	0.02	0.11
CO_2										
Rest	0.11	0.18	0.15	0.28	0.13	0.20	0.19	0.13	0.15	0.25
TOTAL	99.62	100.80	99.03	99.81	100.55	99.83	100.48	100.76	100.28	100.24
Ba	540	1040	736	1850	361	428	1140	539	818	987
Rb	167	145	77	111	89	87	82	165	153	51
Sr	60	109	177	196	80	62	204	73	96	69
Pb	44	49	59	66	31	41	50	45	45	9
Th	2	3	15	15	36	45	3	16	18	13
U	<1	<1	7	<1	2	5	3	1	<1	<1
Zr	27	106	77	64	204	266	85	113	64	527
Nb	<1	<1	1	2	1	22	<1	<1	<1	23
Y	22	46	13	22	35	114	19	4	13	88
La	17	28	32	45	68	84	17	61	32	68
Ce	28	41	52	72	112	134	24	85	49	114
Nd										
Sn	<1	<1	<1	1	1	<1	<1	<1	<1	1
V	<1	3	15	10	8	50	2	1	4	20
Cr	13	6	24	9	6	177	5	4	6	9
Ni	<2	2	5	5	3	11	2	2	5	6
Cu	4	3	10	3	3	6	2	3	3	4
Zn	4	8	12	13	15	27	2	12	7	25
Ga	9	12	13	13	15	17	14	12	13	17

Napier Complex Garnet-Quartz-Feldspar Gneisses

Sample Number	77284320	77284337	77284627	77284850	78285030	80285034D
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Brockelsby	Gage Ridge	Mount Hardy	Latham Peak	Mount George	Mount Hardy
Rock type	Gt-qz-pl-kf gneiss	Op-gt-qz-mp gneiss	Op-gt-qz-mp gneiss	Op-gt-qz-kf gneiss	Gt-qz-mp gneiss	Gt-op-qz-mp gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	72.80	70.50	71.40	74.50	71.50	72.90
TiO_2	0.48	0.49	0.46	0.10	0.29	0.46
Al_2O_3	11.41	13.45	13.41	12.93	14.64	12.50
Fe_2O_3	0.87	2.74	1.32	0.86	1.07	0.48
FeO	4.42	2.00	3.40	0.75	1.50	4.25
MnO	0.09	0.09	0.06	0.02	0.02	0.05
MgO	0.71	1.86	1.89	0.39	0.58	1.91
CaO	1.65	2.32	2.60	1.03	3.41	1.89
Na_2O	2.24	2.63	3.11	2.70	5.09	3.04
K_2O	4.79	3.38	1.85	6.02	1.05	2.51
P_2O_5	0.07	0.02	0.05	0.03	0.08	0.03
H_2O+	0.56	0.24	0.37	0.22		
H_2O-	0.07	0.13	0.02	0.02		
CO_2						
Rest	0.24	0.19	0.17	0.14	0.11	0.19
TOTAL	100.40	100.04	100.11	99.71	99.34	100.21
Ba	1280	539	500	615	380	688
Rb	119	120	39	206	7	53
Sr	76	85	248	68	256	205
Pb	27	31	19	58	4	20
Th	16	16	5	8	2	3
U	2	1	<1	1	1	1
Zr	268	214	123	66	123	141
Nb	10	13	4	1	2	4
Y	34	40	18	23	5	17
La	55	69	32	56	24	39
Ce	80	114	53	83	37	56
Nd					12	22
Sn	<1	<1	<1	1		
V	4	42	82	5	22	81
Cr	6	136	92	7	<3	80
Ni	11	43	44	4	7	48
Cu	3	13	23	3	6	25
Zn	80	33	55	14	41	59
Ga	15	16	16	13	15	14

Napier Complex Mafic Granulites

Sample Number	77283438	77283454	77283456	77283921	77283922	77283975	77283987	77284308	77284309	77284697
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Peacock Ridge	Ntk ENE of 945	Ntk ENE of 945	Tonagh Island	Tonagh Island	Mount Bennett	Grimsley Peaks	Mount Biscoe	Mount Biscoe	Mount Henry
Rock type	Op-cp-pl granulite	Op-cp-pl granulite	Op-pl granulite	Cp-op-pl granulite	Gt-op-pl granulite	Cp-op-pl granulite	Cp-op-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Cp-op-pl granulite
Additional Data								Metagabbro	Metagabbro	
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13
SiO_2	52.30	59.40	51.30	51.60	52.50	50.00	52.20	53.20	51.10	51.30
TiO_2	0.51	1.39	0.89	0.97	1.69	0.97	0.86	0.49	1.11	0.63
Al_2O_3	15.04	13.61	13.94	13.34	14.46	14.60	14.82	16.06	18.13	14.04
Fe_2O_3	2.35	1.01	1.95	2.18	3.23	2.90	1.33	1.15	1.91	2.54
FeO	7.93	6.10	13.67	10.56	12.50	11.34	10.16	6.82	7.81	7.91
MnO	0.22	0.10	0.18	0.19	0.24	0.23	0.20	0.14	0.14	0.18
MgO	9.19	5.17	9.37	8.64	7.46	8.64	7.28	7.61	4.99	7.98
CaO	9.23	10.27	5.89	9.37	4.42	9.03	9.66	10.22	9.65	11.96
Na_2O	2.70	2.46	1.82	2.25	2.93	1.79	3.13	3.09	3.17	2.66
K_2O	0.30	0.33	0.21	0.41	0.36	0.09	0.31	0.31	0.45	0.21
P_2O_5	0.05	0.21	0.08	0.12	0.14	0.09	0.09	0.10	0.32	0.07
H_2O+	0.22	0.22	0.62	0.30	0.24	0.28	0.10	0.27	0.37	0.20
H_2O-	0.07	0.03	0.13	0.12	0.12	0.04	0.05	0.05	0.02	0.03
CO_2										
Rest	0.16	0.16	0.19	0.23	0.21	0.24	0.16	0.14	0.16	0.13
TOTAL	100.27	100.46	100.24	100.28	100.50	100.24	100.35	99.65	99.33	99.84
Ba	59	130	71	71	71	374	190	72	141	63
Rb	8	1	2	4	4	1	2	3	7	<1
Sr	82	151	66	97	69	213	207	230	302	107
Pb	5	5	4	3	5	16	5	5	3	1
Th	<1	<1	2	2	2	2	1	1	1	<1
U	<1	<1	<1	<1	2	1	1	<1	<1	<1
Zr	23	63	47	45	81	64	55	15	89	39
Nb	5	7	4	4	4	2	3	13	8	3
Y	18	56	18	24	30	22	25	51	24	19
La	5	25	19	11	9	5	12	10	15	9
Ce	3	58	26	11	15	8	15	18	26	14
Nd										
Sn	1	3	<1	1	<1	2	2	1	4	1
V	215	327	296	312	614	252	211	118	197	200
Cr	445	97	375	620	162	241	203	187	74	241
Ni	110	95	179	224	192	101	82	145	63	108
Cu	9	7	109	37	10	10	17	92	132	38
Zn	99	84	84	101	107	441	124	72	88	70
Ga	16	20	22	18	19	22	17	18	21	14

Napier Complex Mafic Granulites

Sample Number	76283019	76283060	76283076	76283206	76283224	76283239	76283261	76283275	77284280	77284353
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Seavers Ridge	Mount Pardoe	Mount Codrington	Mount Ryder	Mount Smethurst	Mount Torckler	Ntk 945	Mount Jewell	Hydrographer Is.	Wyers Ice Shelf
Rock type	Cp-op-pl granulite	Cp-op-pl granulite	Cp-op-pl granulite	Cp-op-pl granulite	Cp-op-pl granulite	Op-cp-pl granulite	Op-cp-pl granulite	Cp-op-pl granulite	Gt-cp-pl granulite	Gt-cp granulite
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13
SiO_2	51.10	48.00	49.80	50.70	49.70	48.20	49.40	50.30	43.10	44.00
TiO_2	1.83	1.29	1.03	1.09	1.47	0.64	0.66	0.77	0.27	0.52
Al_2O_3	13.42	14.97	14.43	12.07	14.56	15.64	11.56	14.62	14.54	12.80
Fe_2O_3	3.89	3.91	1.84	4.95	1.58	4.60	3.20	1.58	1.68	3.04
FeO	10.89	9.23	9.85	10.75	10.76	7.17	8.84	10.01	19.50	9.80
MnO	0.23	0.22	0.18	0.29	0.24	0.19	0.31	0.20	0.34	0.57
MgO	3.96	7.88	7.43	10.28	7.75	9.05	9.08	7.57	7.45	11.83
CaO	8.31	10.75	10.12	6.18	9.67	12.01	14.12	11.17	10.63	15.76
Na_2O	3.75	2.59	2.46	1.86	2.88	1.77	1.96	2.63	0.97	0.45
K_2O	1.08	0.27	0.62	0.69	0.29	0.05	0.30	0.32	0.09	0.03
P_2O_5	0.26	0.10	0.18	0.17	0.17	0.06	0.02	0.06	0.24	0.03
H_2O+									0.17	0.25
H_2O-									0.06	0.05
CO_2										
Rest	0.19	0.14	0.17	0.26	0.18	0.16	0.30	0.14	0.14	0.09
TOTAL	98.91	99.35	98.11	99.29	99.25	99.54	99.75	99.37	99.18	99.22
Ba	182	66	164	330	100	35	56	78	56	48
Rb	7	2	18	21	3	<1	<1	4	2	1
Sr	151	215	129	285	134	115	109	95	23	14
Pb	6	2	9	4	3	1	1	3	1	1
Th	<1	<1	1	2	1	<1	<1	1	4	4
U	1	<1	1	<1	<1	<1	<1	1	2	1
Zr	242	75	86	127	116	68	46	53	92	117
Nb	20	4	6	10	10	2	1	2	1	5
Y	55	19	33	21	30	17	14	19	160	56
La	84	5	19	19	17	7	7	5	29	24
Ce	147	14	42	40	38	20	14	14	67	52
Nd										
Sn	1	3	7	3	2	1	2	1	2	15
V	110	271	236	182	224	169	140	199	314	41
Cr	71	76	173	531	395	375	1240	262	88	180
Ni	152	86	133	186	77	191	307	133	35	35
Cu	55	15	59	34	41	30	140	40	15	3
Zn	134	89	72	123	99	61	65	76	95	64
Ga	20	20	16	18	19	17	11	17	15	14

Napier Complex Mafic Granulites

Sample Number	77284816	77284817	77284510	77283413	77283701	77283920	77284322	77283692	77284629	77284628
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Gromov Ntks	Gromov Ntks	Fyfe Hills	Mount Marsland	Howard Hills	Tonagh Island	Mount Brockelsby	Bunt Is.	Mount Hardy	Mount Hardy
Rock type	Op-gt-cp granulite	Hb-gt-px granulite	Gt-px-pl granulite	Cp-ol-op granulite	Cp-op granulite	Cp-ol-op granulite	Cp-ol-op granulite	Leuco-norite	Leuco-gabbro	Anortho-site
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5	5	5
SiO_2	44.00	41.30	47.90	47.30	52.40	46.90	44.10	47.40	50.00	50.80
TiO_2	1.26	1.54	1.12	0.19	0.25	0.12	0.51	0.04	1.03	0.43
Al_2O_3	13.60	13.47	14.10	3.58	3.66	4.76	5.14	26.85	19.55	25.10
Fe_2O_3	2.56	5.89	2.94	3.16	3.42	2.04	4.01	0.72	3.62	2.62
FeO	14.40	13.60	11.63	6.13	11.22	6.68	10.81	3.00	5.59	2.68
MnO	0.30	0.24	0.29	0.16	0.18	0.16	0.23	0.10	0.13	0.06
MgO	9.37	9.84	7.66	34.50	26.90	31.90	29.00	6.51	5.74	2.54
CaO	12.82	12.20	11.23	3.95	0.70	5.28	4.44	13.74	11.37	11.81
Na_2O	0.65	1.33	2.31	0.16	0.04	0.32	0.16	1.19	2.79	3.15
K_2O	0.04	0.40	0.05	0.02	0.02	0.20	0.11	0.12	0.15	0.58
P_2O_5	0.32	0.17	0.16	0.01		0.01	0.05	0.01	0.19	0.02
H_2O+	0.25	0.51	0.37	0.54	0.16	0.48	0.75	0.15	0.18	0.26
H_2O-	0.08	0.03	0.07	0.04	0.09	0.08	0.10	0.03	0.08	0.06
CO_2										
Rest	0.12	0.16	0.13	0.66	0.66	0.69	0.96	0.04	0.14	0.25
TOTAL	99.77	100.68	99.96	100.40	99.70	99.62	100.37	99.90	100.56	100.36
Ba	23	46	22	16	26	42	59	68	56	186
Rb	<1	<1	1	<1	1	5	3	4	<1	8
Sr	46	32	112	16	2	23	58	52	206	215
Pb	<1	<1	<1	<1	<1	<1	<1	3	4	11
Th	<1	1	1	<1	<1	<1	4	1	<1	<1
U	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
Zr	108	164	77	10	28	12	52	6	124	26
Nb	6	9	3	<1	<1	2	3	1	5	1
Y	37	42	31	6	28	5	11	3	29	14
La	12	18	6	<2	2	3	9	7	9	7
Ce	18	41	11	<3	<3	<3	<3	10	17	10
Nd										
Sn	3	1	<1	<1	<1	<1	12	1	3	1
V	267	423	239	96	115	87	128	38	202	166
Cr	56	68	158	2900	3670	3230	4590	28	123	969
Ni	74	76	91	1670	576	1470	1730	53	84	63
Cu	29	17	58	22	8	2	128	3	44	16
Zn	134	129	111	24	133	17	34	24	66	36
Ga	19	20	17	4	13	4	7	13	22	22

Napier Complex Ultramafic Granulites

Sample Number	R25664	R25839A
Area	Enderby Land	Enderby Land
Locality	McIntyre Island	Hydrographer Is.
Rock type	Peridotite gneiss	Pyroxenite gneiss
Additional Data		
Age	Archaean	Archaean
Bibliog. ref.	23	23
SiO_2	40.75	51.22
TiO_2	1.07	0.26
Al_2O_3	4.70	2.06
Fe_2O_3	18.47	13.59
FeO		
MnO	0.18	<0.01
MgO	27.02	18.77
CaO	3.69	12.17
Na_2O	0.44	0.51
K_2O	1.33	0.21
P_2O_5	0.27	0.03
H_2O+		
H_2O-		
CO_2		
Rest	0.77	0.35
TOTAL	98.69	99.16
Ba	103	61
Rb	56	12
Sr	29	58
Pb		
Th		
U		
Zr	150	35
Nb		
Y		15
La		
Ce	86	49
Nd	41	32
Sn		
V	154	7
Cr	4589	2129
Ni		
Cu		
Zn	137	80
Ga		

Napier Complex Metasediments

Sample Number	77283997	77284158A	77284158B	77284215	77284493	76283265	76283350A	76283350B	76283355	76283362
Area	Enderby Land	Kemp Land	Kemp Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Maines	Wallis Ntks	Wallis Ntks	Mount Codrington	Thorp Ridges	Ntk 945	Ntk 945	Ntk 945	Ntk 945	Ntk 945
Rock type	Op-cd pelite	Si-cd-gt pelite	Cd-gt-si pelite	Op-cd pelite	Bi-gt-cd pelite	Sp-gt pelite	Sa-gt-os pelite	Gt-os pelite	Bi-gt-op-os pelite	Si-gt-sa-os pelite
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	3,5	3,5	3,5	3,5	3,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5
SiO_2	76.10	55.10	69.30	71.10	73.00	32.00	47.50	68.80	49.90	67.10
TiO_2	1.19	1.64	0.82	0.97	0.15	0.88	1.26	0.68	0.62	0.74
Al_2O_3	11.17	23.44	18.52	10.65	12.39	38.70	31.70	17.22	14.97	20.80
Fe_2O_3	0.39	1.53	1.11	0.59	0.65	6.44	2.21	0.80	1.67	1.06
FeO	2.75	6.20	2.70	5.60	2.30	9.90	5.95	4.48	12.50	2.26
MnO	0.05	0.10	0.04	0.02	0.03	0.19	0.06	0.06	0.29	0.04
MgO	5.97	5.42	2.00	4.79	2.24	6.93	9.21	5.77	17.40	5.84
CaO	0.37	1.75	2.00	0.73	0.58	0.46	0.02	0.02	0.23	<1.00
Na_2O	0.31	1.15	1.30	2.49	1.80	0.39	0.12	0.11	0.03	0.12
K_2O	0.98	0.74	0.94	1.63	4.96	2.16	1.10	1.04	0.72	1.02
P_2O_5	0.20	0.01	0.01	0.05	0.01	<0.01	0.01	0.01	0.01	<0.01
H_2O+	0.68	0.59	0.49	0.46	0.37	0.87	0.65	0.77	0.52	0.54
H_2O-	0.06	0.19	0.21	0.04	0.14	0.03	0.03	0.07	0.10	0.09
CO_2						0.06	0.05	0.04	0.06	0.06
Rest	0.15	0.21	0.14	0.21	0.11	0.53	0.32	0.17	0.45	0.19
TOTAL	100.37	98.07	99.58	99.33	98.73	99.53	100.19	100.04	99.47	98.85
Ba	276	206	205	782	417	426	84	80	38	76
Rb	33	41	29	23	141	25	52	60	53	42
Sr	3	68	89	57	33	94	10	12	5	11
Pb	2	13	17	9	26	8	<1	<1	1	2
Th	20	14	8	28	22	1	2	1	2	4
U	3	3	2	4	2	<1	<1	<1	<1	1
Zr	471	210	188	418	97	77	435	327	99	340
Nb	20	22	14	17	8	8	85	35	8	17
Y	77	49	36	71	17	63	52	34	18	18
La	36	47	48	79	39	5	4	2	5	10
Ce	65	80	82	124	65	<3	7	<3	<3	18
Nd										
Sn	3	<1	<1	1	<1	<1	<1	<1	<1	<1
V	95	284	140	53	7	438	243	114	211	98
Cr	<3	236	87	3	4	1620	1020	463	2020	495
Ni	5	45	31	3	7	706	183	70	466	151
Cu	3	42	35	3	3	88	6	4	4	8
Zn	36	132	33	9	20	146	25	19	189	18
Ga	20	28	24	16	18	67	47	21	24	26

Napier Complex Metasediments

Sample Number	76283364	76283368A	77283450	77284249	77284347	77284348	77284633	77283971	77283469	77283946
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Ntk 945	Ntk 945	Ntk ENE of 945	Mount Dungey	Gage Ridge	Gage Ridge	Mount Hardy	Mount Charles	Mount Sones	Priestley Peak
Rock type	Gt-op pelite	Sa-gt-os pelite	Sp-gt pelite	Sa-bi-op-os pelite	Sa-gt-os pelite	Gt-os-si pelite	Op-sa-cd pelite	Gt-si-op pelite	Gt-si pelite	Gt-si pelite
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,5	3,5	3,5
SiO_2	45.40	50.60	56.20	73.40	88.00	71.40	68.20	73.20	62.80	62.60
TiO_2	1.23	1.24	1.01	0.72	0.46	0.35	0.94	0.55	0.80	1.05
Al_2O_3	23.30	28.00	23.30	11.42	7.19	15.10	13.09	13.41	21.81	23.66
Fe_2O_3	1.44	2.40	1.22	0.12	0.39	0.46	1.08	0.61	0.44	0.74
FeO	9.80	5.95	3.33	1.75	1.50	5.45	5.55	2.97	6.02	5.73
MnO	0.25	0.07	0.05	0.01	0.02	0.08	0.03	0.01	0.05	0.05
MgO	9.56	8.63	2.18	4.55	2.45	3.86	10.57	5.42	4.21	2.89
CaO	5.30	0.05	2.77	0.70	0.04	0.11	0.06	0.39	0.40	0.33
Na_2O	2.09	0.10	4.80	2.34	0.05	0.22	0.07	0.78	0.82	0.44
K_2O	0.53	0.90	4.74	2.20	0.30	1.68	0.01	2.76	2.53	1.74
P_2O_5	0.13	<0.01	0.06	0.02	0.07	0.04	0.02	0.03	0.02	0.02
H_2O+	0.67		0.25	0.62	0.34	0.26	0.63	0.42	0.31	0.34
H_2O-	0.03		0.07	0.13	0.12	0.14	0.12	0.05	0.06	0.13
CO_2	0.06		0.02	0.03	0.01	0.02	0.03	0.01		
Rest	0.28	0.29	0.24	0.28	0.14	0.14	0.04	0.11	0.30	0.27
TOTAL	100.07	98.22	100.24	98.29	101.08	99.31	100.44	100.72	100.57	99.99
Ba	98	57	1170	1880	62	291	8	344	721	490
Rb	13	39	82	51	14	43	<1	89	72	49
Sr	111	10	123	37	3	19	1	14	51	110
Pb	11	1	48	1	1	3	<1	7	7	11
Th	22	2	9	<1	12	<1	13	38	4	4
U	3	<1	2	<1	2	1	1	2	<1	2
Zr	267	512	230	355	671	299	171	201	221	244
Nb	17	40	17	7	11	6	19	7	19	16
Y	60	50	30	1	29	35	21	41	45	20
La	71	<2	59	4	29	6	23	46	36	41
Ce	122	4	95	4	52	7	38	72	40	59
Nd										
Sn	<1	<1	3	4	<1	1	<1	4	<1	<1
V	198	177							152	188
Cr	862	908	112	10	134	171	4	6	706	596
Ni	57	168	19	36	38	81	3	17	122	64
Cu	5	4	3	2	3	27	3	<2	43	67
Zn	45	21	13	22	7	24	14	39	29	36
Ga	23	44							26	31

Napier Complex Metasediments

Sample Number	77284125	79285058	82285081	77284338	77284340	77284343A	77284343B	R31169	8020.159	R31136
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Brusilov Ntks	Mount Bartlett	Gage Ridge	Gage Ridge	Gage Ridge	Gage Ridge	Gage Ridge	Fyfe Hills	Khmara Bay	Fyfe Hills
Rock type	Os pelite	Sa-op-os pelite	Gt-si-sp pelite	Sa-op granulite	Sa-phl granulite	Cd-sa-op granulite	Cd-sa-op granulite	Sa-op granulite	Calc-sil. gneiss	Calc-sil. gneiss
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	3,4,5	3,4,5	3,5	5,21	5,21	5,21	5,21	23	23	23
SiO_2	77.00	58.40	77.70	37.00	36.20	39.40	36.40	40.67	53.33	46.89
TiO_2	0.05	0.65	0.01	0.73	0.12	0.27	0.46	0.39	0.29	1.01
Al_2O_3	13.38	20.50	13.33	32.20	26.70	31.20	31.70	23.14	10.43	12.76
Fe_2O_3	0.39	1.22	<0.05	0.21	1.04	0.19	2.06	3.74	7.26	12.52
FeO	1.24	3.35	0.61	0.36	0.79	0.47	4.70			
MnO	0.01	0.08	0.02	0.01	0.03	0.02	0.12	<0.01	0.04	0.95
MgO	3.53	11.09	0.06	27.90	24.60	25.50	20.20	28.43	4.36	5.23
CaO	0.24	0.22	0.67	0.13	0.06	0.07	0.78	1.62	18.35	19.78
Na_2O	0.91	1.79	3.98	0.09	0.27	0.15	0.92	0.15	0.94	1.39
K_2O	2.61	3.01	4.44	0.68	6.80	0.64	0.16	0.63	0.60	0.18
P_2O_5	0.03	0.05	0.07	0.04	0.03	0.02	0.03	0.13	0.03	0.16
H_2O+	0.40	0.23		0.54	1.18	0.68	0.50			
H_2O-	0.09	0.05		0.02	0.09	0.07	0.09			
CO_2										
Rest	0.09	0.29	0.04	0.17	0.16	0.09	0.13	0.26	0.15	0.16
TOTAL	99.97	100.93	100.88	100.08	98.07	98.77	98.25	99.15	95.78	101.03
Ba	434	1160	110	27	507	10	133	18	610	136
Rb	88	89	105	35	530	49	5	38	17	9
Sr	21	60	16	5	13	2	29	59	58	271
Pb	10	9	18	26	7	9	15			
Th	7	20	<1	240	23	84	101			
U	<1	<1	1	8	1	3	3			
Zr	82	563	25	732	103	250	281	479	30	125
Nb	1	15	<1	44	10	11	26		11	
Y	6	5	4	10	38	5	14	105	7	30
La	15	134	14	38	22	47	73			
Ce	23	208	19	73	37	82	127	897	40	116
Nd			5					301	15	39
Sn	1	2		1	4	1	1			
V	2	22	<1	50	32	32	61	131	40	200
Cr	5	12	<3	7	4	6	14	15	174	199
Ni	<2	8	4	22	45	21	31		116	
Cu	3	5	3	7	4	41	12		27	
Zn	23	108	10	3	13	5	49	20	70	85
Ga	18	23	16	9	11	8	19		18	

Napier Complex Metasediments

Sample Number	8020.122	8020.31	8020.292
Area	Enderby Land	Enderby Land	Enderby land
Locality	Fyfe Hills	Khmara Bay	Khmara Bay
Rock type	Mn-Ba meta ironstone	Meta-ironstone	Meta-ironstone
Additional Data			
Age	Archaean	Archaean	Archaean
Bibliog. ref.	23	23	23
SiO_2	32.02	42.45	53.51
TiO_2	0.76	0.34	0.02
Al_2O_3	6.91	0.61	0.15
Fe_2O_3	31.54	49.15	43.77
FeO			
MnO	16.87	0.07	0.09
MgO	3.13	1.94	2.28
CaO	9.10	1.26	0.61
Na_2O	0.27	0.15	0.10
K_2O	0.03	0.01	0.01
P_2O_5	0.09	0.04	0.11
H_2O+			
H_2O-			
CO_2			
Rest	0.45	0.22	0.01
TOTAL	101.17	96.24	100.66
Ba	2564	10	11
Rb	30	20	14
Sr	71	31	14
Pb			
Th			
U			
Zr	51	19	7
Nb			
Y	39	14	9
La			
Ce	89	4	<3
Nd	47	1	<1
Sn			
V	172	13	<1
Cr	249	<3	<3
Ni	148	3	<2
Cu	78		
Zn	90	1607	34
Ga	40	12	6

Napier Complex Granitic Intrusives

Sample Number	77284527	77284286	77284284	77284376	77283978	77284574	77284575	77284106	77284108	80285032
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Wilkinson Peaks	Wilkinson Peaks	Wilkinson Peaks	Zubchatyy Ice Shelf	Mount Bennett	Armstrong Peak	Armstrong Peak	Simmers Peaks	Simmers Peaks	Simmers Peaks
Rock type	Op tonal gneiss	Gt-op tonalite	Op-pl xenolith	Op granite	Gt granite	Bi-op granite	Bi granite	Bi granite	Bi granite	Bi granite
Map Sheet										
Age	Archaean	Archaean	Archaean	Archaean	?Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6,22	5,6,22	5,6,22	5,6,22	5,6,22
SiO_2	57.40	63.70	50.00	73.20	76.20	66.20	71.20	68.60	69.70	69.30
TiO_2	0.26	0.71	0.84	0.14	0.01	0.74	0.63	0.77	0.65	0.67
Al_2O_3	18.34	12.97	18.77	14.16	13.20	15.86	13.68	13.52	14.01	13.49
Fe_2O_3	1.02	5.24	3.35	0.79	0.18	1.33	0.81	1.47	1.13	1.14
FeO	6.36	5.90	7.52	0.60	0.35	3.33	2.65	3.23	2.76	2.86
MnO	0.08	0.16	0.10	0.01	0.03	0.05	0.02	0.04	0.04	0.03
MgO	5.62	4.94	6.75	0.28	0.10	1.06	0.60	0.70	0.70	0.77
CaO	7.68	3.73	7.88	1.40	0.54	2.05	1.48	1.81	1.70	1.68
Na_2O	2.33	1.48	2.36	3.55	4.36	3.12	2.76	2.58	2.67	2.59
K_2O	0.45	0.61	0.59	5.35	4.65	6.28	6.00	5.45	5.67	5.50
P_2O_5	0.42		0.61	0.03	0.03	0.12	0.20	0.32	0.29	0.27
H_2O+	0.40	0.76	0.83	0.29	0.12	0.36	0.52	0.66	0.74	0.48
H_2O-	0.05	0.09	0.02	0.07	0.07	0.06	0.05	0.04	0.10	0.04
CO_2										0.24
Rest	0.14	0.21	0.18	0.19	0.08	0.43	0.29	0.33	0.33	0.30
TOTAL	100.55	100.50	99.80	100.06	99.92	100.99	100.89	99.52	100.49	99.36
Ba	209	359	275	960	250	1470	764	912	960	828
Rb	3	12	7	156	188	141	218	259	239	233
Sr	256	109	260	151	39	162	83	124	122	116
Pb	11	5	13	64	63	56	50	48	43	43
Th	4	<1	<1	46	7	228	120	110	138	111
U	<1	1	<1	4	4	5	6	3	2	3
Zr	4	101	8	115	36	538	512	566	504	535
Nb	4	8	9	1	<1	22	21	43	38	35
Y	42	43	27	<1	29	25	28	43	38	36
La	34	11	35	40	12	302	181	168	202	168
Ce	61	6	61	56	21	536	329	295	358	292
Nd										
Sn	<1	1	1	<1	1	<1	<1	<1	2	<1
V	110	180	220	8	1	25	19	28	25	19
Cr	140	382	222	4	4	9	6	11	11	12
Ni	44	162	66	2	12	3	2	7	6	5
Cu	24	102	21	2	2	7	8	15	11	10
Zn	96	61	116	22	5	53	48	60	51	55
Ga	22	13	26	16	15	21	17	19	19	22

Napier Complex Granitic Intrusives

Sample Number	77283796	82285033	77284684	77284685	77284686	77284756	77284687	77284754
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Bride	Mount Bride	Felton Head	Felton Head	Felton Head	Waratah Island	Felton Head	Waratah Island
Rock type	Bi granite	Bi-gt granite	Gt-op granod	Gt-hb-op granod	Gt-hb-bi granod	Cp-hb-op granod	Bi granite	Bi granite
Additional Data								
Age	Archaean	Archaean	?Protero	?Protero	?Protero	?Protero	?Protero	?Protero
Bibliog. ref.	5,6,22	5,6,22	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	72.60	73.00	56.50	55.40	57.20	60.00	77.50	70.00
TiO_2	0.27	0.01	1.92	2.04	1.88	1.89	0.63	0.16
Al_2O_3	13.70	13.69	14.78	14.26	14.04	13.58	11.30	13.95
Fe_2O_3	0.32	0.26	2.95	3.09	3.92	3.09	0.60	0.51
FeO	1.33	2.34	7.76	8.09	6.56	6.87	0.87	1.10
MnO	0.01	0.03	0.13	0.15	0.12	0.12	0.02	0.02
MgO	0.74	0.23	1.75	1.88	1.75	1.77	0.17	1.80
CaO	1.56	1.40	6.28	6.52	5.54	5.39	0.64	0.87
Na_2O	2.21	2.62	2.82	2.73	2.30	3.16	1.91	1.87
K_2O	5.96	5.39	2.89	2.66	3.15	2.67	6.15	7.96
P_2O_5	0.11	0.07	1.18	1.30	1.18	0.80	0.07	0.04
H_2O+	0.84	0.49	0.35	0.34	0.90	0.50	0.28	1.18
H_2O-	0.08	0.04	0.01	0.09	0.11	0.05	0.07	0.02
CO_2		0.27						
Rest	0.24	0.16	0.46	0.47	0.44	0.46	0.43	0.15
TOTAL	99.97	100.00	99.78	99.02	99.09	100.35	100.64	99.63
Ba	988	648	1880	1820	1660	1340	3040	423
Rb	133	109	67	61	70	60	138	216
Sr	150	148	418	409	361	327	332	212
Pb	66	60	20	18	19	19	24	26
Th	70	29	2	5	4	9	<1	16
U	4	3	<1	1	1	2	1	3
Zr	246	117	666	748	692	998	136	159
Nb	6	<1	41	51	46	65	16	13
Y	21	86	68	78	73	70	1	11
La	96	50	142	158	145	200	16	48
Ce	164	85	263	289	260	374	17	71
Nd		31						
Sn	<1		2	<1	1	<1	<1	1
V	21	4	69	71	77	74	16	6
Cr	11	3	13	14	14	15	5	6
Ni	8	2	9	11	9	7	2	5
Cu	4	3	19	32	19	19	4	2
Zn	16	7	129	135	136	126	21	25
Ga	12	12	21	21	20	20	11	16

Napier Complex Mafic Intrusives

Sample Number	76283244	73283250	76283259	76283276	77283924	77283927	77284363	77284827	77284828	77283504
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount McGhee	Burch Peaks	Ntk 945	Mount Jewell	Tonagh Island	Tonagh Island	Mount Renouard	Mount Pardoe	Mount Pardoe	Mount McLennan
Rock type	Pyroxenite dyke	Pyroxenite dyke	Pyroxenite dyke	Pyroxenite dyke	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5	5	5	5	5,9	5,9	5,9	5,9	5,9	5,9
SiO_2	48.40	51.70	48.90	50.90	52.00	52.00	50.40	50.10	50.80	51.70
TiO_2	1.12	0.50	1.05	0.54	1.35	1.26	1.32	2.02	0.93	1.14
Al_2O_3	4.78	4.37	5.97	2.94	13.07	13.31	13.46	12.82	13.53	14.08
Fe_2O_3	5.19	2.05	3.31	4.41	4.42	4.68	3.19	8.67	2.67	3.30
FeO	11.80	11.53	14.14	11.33	9.74	9.04	10.05	7.92	9.21	9.87
MnO	0.25	0.25	0.32	0.28	0.22	0.21	0.22	0.25	0.20	0.20
MgO	16.74	16.09	16.01	20.13	5.23	5.96	6.17	5.10	7.54	6.08
CaO	7.84	10.05	8.08	7.58	9.40	10.05	10.46	9.65	11.83	10.11
Na_2O	0.51	0.96	0.48	0.61	2.80	2.58	2.41	2.65	2.24	2.49
K_2O	1.46	0.71	0.12	0.39	0.67	0.68	0.60	0.75	0.40	0.67
P_2O_5	0.05	0.02	0.11	0.01	0.25	0.21	0.12	0.23	0.11	0.13
H_2O+					0.67	0.34	0.31	0.18	0.30	0.19
H_2O-					0.03	0.03	0.08	0.04	0.05	0.07
CO_2										
Rest	0.53	0.49	0.52	0.44	0.26	0.17	0.17	0.19	0.15	0.18
TOTAL	98.67	98.72	99.01	99.56	100.11	100.52	98.96	100.57	99.96	100.21
Ba	556	342	183	165	318	277	219	292	165	164
Rb	43	18	4	15	13	14	17	21	11	23
Sr	607	225	146	113	237	233	228	207	186	105
Pb	3	7	2	1	673	3	2	4	1	5
Th	<1	3	<1	<1	1	<1	1	2	1	5
U	1	1	<1	<1	<1	<1	<1	<1	<1	2
Zr	74	78	74	62	113	96	85	139	60	100
Nb	8	2	13	5	5	5	3	5	1	5
Y	15	13	62	27	34	28	25	37	21	29
La	22	25	17	17	19	16	16	16	9	15
Ce	53	48	39	52	35	28	26	32	16	26
Nd										
Sn	3	2	2	2	70	<1	<1	<1	<1	<1
V	134	120	123	80	294	292	312	303	250	308
Cr	1300	1850	2120	1510	20	25	57	69	84	137
Ni	989	741	816	1025	27	28	54	41	51	95
Cu	97	4	11	83	58	81	109	64	111	132
Zn	118	91	121	96	102	104	94	115	81	97
Ga	6	7	12	6	19	18	19	19	16	17

Napier Complex Mafic Intrusives

Sample Number	77284099	77284589	ANT3431	ANT4948	ANT4963	8055.12a	R16320	77284155	77284699	77284134
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Enderby Land
Locality	Mount Stansfield	Ward Rocks	Mt Riiser-Larsen	Ward Rock	Hydrographer Is.	Khmara Bay	Bowl Is Area	Bird Ridge	Mount Henry	Brusilov Ntks
Rock type	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	High-Mg ol tholeiite	High-Mg ol tholeiite	High-Mg qz tholeiite
Additional Data										
Age	?Archaean	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5	5,9	5	5	5	23	23	5,9	5,9	5,9
SiO_2	49.60	53.00	49.40	55.90	53.40	53.51	50.49	53.80	51.40	55.00
TiO_2	1.60	1.07	2.07	1.38	0.75	0.64	1.67	1.02	0.52	0.55
Al_2O_3	9.13	14.19	12.43	13.29	14.16	13.85	12.69	9.69	8.86	11.91
Fe_2O_3	3.43	2.81	5.32	3.68	2.05	11.08	16.70	2.06	2.15	1.60
FeO	10.60	10.28	9.75	9.27	8.31			10.28	8.27	8.19
MnO	0.21	0.23	0.21	0.20	0.17	0.21	0.21	0.18	0.18	0.17
MgO	13.59	6.36	5.44	4.43	6.06	6.87	4.91	8.82	17.93	10.64
CaO	8.40	10.14	9.31	8.08	10.31	10.62	8.85	9.43	7.25	7.78
Na_2O	1.83	2.83	3.25	2.48	3.12	1.94	2.97	3.03	1.34	1.57
K_2O	1.19	0.70	0.64	0.74	0.66	0.60	0.89	1.25	0.54	1.01
P_2O_5	0.18	0.17	0.67	0.25	0.09	0.23	0.09	0.17	0.07	0.09
H_2O+	0.34	0.40	0.63	0.79	0.51			0.39	0.37	0.55
H_2O-	0.04	0.04						0.02	0.08	0.11
CO_2			<0.05	0.14	<0.05					
Rest	0.42	0.15	0.22	0.18	0.15	0.17	0.18	0.33	0.51	0.27
TOTAL	100.56	102.37	99.29	100.81	99.69	99.72	99.65	100.47	99.47	99.44
Ba	460	232	327	385	181	163	317	483	234	249
Rb	40	14	23	13	21	21	27	46	20	47
Sr	223	231	135	203	163	156	221	401	162	100
Pb	4	4	5	6	5			6	2	9
Th	7	3	2	3	3			4	2	7
U	1	<1	1	1	1			2	<1	1
Zr	155	73	215	183	77	68	113	94	55	88
Nb	9	4	10	11	3			5	2	4
Y	24	25	48	37	16	12	23	15	11	18
La	24	13	20	24	13			17	9	19
Ce	40	23	49	48	28	78	<3	32	15	26
Nd			30	26	11	43	<1			
Sn	<1	<1						1	<1	<1
V	230	245	336	276	223	228	413	226	181	183
Cr	1220	20	101	9	155	203	24	747	2220	876
Ni	418	19	79	17	66			178	628	189
Cu	100	74	106	19	25	26	70	132	42	62
Zn	89	94	120	104	72	98	92	84	60	68
Ga	13	17	19	21	16	15	22	15	10	14

Napier Complex Mafic Intrusives

Sample Number	77284162	77284318	77284625	77284758	76283105	76283258	76283277	ANT3889	ANT3899	ANT4969
Area	Kemp Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Wallis Ntks	Mount Charles	Mount Hardy	Rayner Glacier	Rippon Depot	Mount Stadler	Mount Jewell	Dick Peaks	Dick Peaks	3km W of Fyfe Hills
Rock type	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite	High-Mg qz tholeiite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5	5	5
SiO_2	56.40	55.60	55.20	55.00	54.50	55.70	54.40	53.20	53.90	60.40
TiO_2	1.40	1.29	0.55	0.62	1.33	0.75	1.34	0.84	0.88	0.59
Al_2O_3	12.72	10.52	12.26	14.09	12.27	13.08	12.48	13.94	14.23	12.46
Fe_2O_3	1.11	3.19	2.27	1.74	3.21	1.20	1.69	3.78	2.32	1.76
FeO	11.10	9.20	7.53	7.90	8.91	9.32	10.69	7.46	8.76	9.18
MnO	0.17	0.17	0.17	0.17	0.14	0.17	0.20	0.18	0.18	0.13
MgO	6.06	7.59	10.58	7.60	5.94	7.36	5.89	5.84	5.87	4.94
CaO	9.37	8.67	7.92	8.68	9.14	8.06	9.00	9.97	9.96	5.25
Na_2O	0.46	0.71	1.61	1.69	2.93	1.94	2.45	1.85	1.84	2.03
K_2O	1.21	1.38	1.01	1.14	1.13	1.39	1.27	0.90	1.01	2.60
P_2O_5	0.16	0.17	0.08	0.09	0.15	0.10	0.14	0.11	0.10	0.09
H_2O+	0.20	0.37	0.50	0.46	0.16			0.48	0.71	0.48
H_2O-	0.11	0.06	0.08	0.08	0.12					
CO_2								0.91	0.07	0.07
Rest	0.22	0.27	0.27	0.20	0.18	0.22	0.24	0.16	0.17	0.19
TOTAL	100.69	99.19	100.03	99.46	100.11	99.29	99.79	99.62	100.00	100.17
Ba	299	379	258	237	319	311	310	248	256	497
Rb	55	54	47	57	52	66	55	24	39	88
Sr	207	236	106	109	205	116	206	106	110	101
Pb	10	9	9	13	11	13	12	11	10	17
Th	10	7	7	8	8	10	9	8	7	4
U	3	2	2	3	2	2	3	2	2	1
Zr	164	158	87	93	159	115	159	109	109	80
Nb	8	8	5	5	10	7	9	7	6	4
Y	24	24	16	17	29	20	24	23	23	12
La	23	27	18	18	26	14	21	21	23	21
Ce	45	46	31	30	44	37	49	40	43	37
Nd								17	18	14
Sn	2	<1	2	2	4	2	3			
V	233	192	187	197		189	220	265	265	141
Cr	301	552	818	462	329	446	308	38	38	259
Ni	134	178	190	139	111	142	127	95	99	66
Cu	21	13	62	20	15	30	158	49	110	64
Zn	86	93	68	70	87	75	81	75	78	55
Ga	20	16	14	15		18	20	18	18	15

Napier Complex Mafic Intrusives

Sample Number	77283713	77283845	77283940	77283941	77284362	77284387	77284695	77284009	77284065	77284079
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Howard Hills	Mount Charles	Mount Pardoe	Mount Pardoe	Mount McGhee	Zubchatyy Ice Shelf	Mount Henry	Bunt Island	Johnston Peak	Pythagoras Peak
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Additional Data	Group I	Group I	Group I	Group I	Group I	Group I	Group I	Group I	Group I	Group I
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9
SiO_2	50.00	50.20	49.40	49.70	50.30	49.60	50.20	49.80	49.50	50.00
TiO_2	2.53	2.48	2.60	2.68	2.19	2.49	2.49	2.43	2.41	2.19
Al_2O_3	13.68	13.72	13.61	13.71	15.06	13.56	13.44	13.47	13.67	14.47
Fe_2O_3	4.64	4.32	4.60	4.24	4.51	3.49	5.42	3.80	3.13	2.82
FeO	8.99	9.33	9.29	9.85	7.90	10.50	8.29	9.78	9.68	10.96
MnO	0.19	0.19	0.18	0.19	0.17	0.19	0.19	0.20	0.20	0.20
MgO	5.81	5.79	5.66	5.06	5.40	5.84	5.71	5.82	6.13	5.91
CaO	9.83	9.88	9.91	9.57	10.35	9.90	9.74	9.76	9.79	9.82
Na_2O	2.31	2.40	2.20	2.48	2.24	2.18	2.45	2.34	2.27	2.79
K_2O	0.80	0.82	0.81	0.91	0.76	0.74	0.85	0.86	0.75	0.81
P_2O_5	0.32	0.30	0.31	0.35	0.28	0.29	0.32	0.31	0.28	0.26
H_2O+	0.87	0.66	0.82	0.75	0.63	0.86	0.66	0.62	1.06	0.44
H_2O-	0.10	0.06	0.06	0.02	0.08	0.16	0.06	0.02	0.07	0.04
CO_2										
Rest	0.23	0.24	0.23	0.24	0.22	0.24	0.24	0.23	0.22	0.21
TOTAL	100.30	100.39	99.68	99.75	100.09	100.04	100.06	99.44	99.16	100.92
Ba	310	320	324	350	313	291	347	318	240	290
Rb	23	24	24	26	21	21	25	22	20	20
Sr	409	408	416	417	450	377	416	398	354	330
Pb	4	2	3	4	3	4	3	2	3	3
Th	3	2	2	3	3	2	4	3	3	4
U	<1	<1	<1	<1	<1	1	<1	<1	2	<1
Zr	173	178	160	186	149	173	172	160	154	141
Nb	15	16	14	17	13	14	15	15	14	12
Y	27	27	27	29	23	28	28	28	28	27
La	22	27	20	31	19	24	25	25	20	22
Ce	42	52	46	55	40	48	52	48	42	43
Nd										
Sn	3	<1	2	1	<1	<1	<1	1	<1	<1
V	337	341	383	372	284	363	328	346	342	289
Cr	74	75	69	38	79	82	69	66	83	109
Ni	65	74	51	59	58	85	68	56	84	59
Cu	99	98	65	109	55	126	100	96	122	77
Zn	101	112	100	113	94	112	111	105	129	112
Ga	20	19	19	20	20	19	20	18	16	17

Napier Complex Mafic Intrusives

Sample Number	77284541	76283010	76283242	ANT3631	ANT3839	ANT4905	77283961	77284373	ANT4933	ANT4953
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Bergin	Seavers Ridge	Mount McGhee	Harvey Ntks	Mount Charles	Seavers Ridge	Debenham Peak	Zubchatyy Ice Shelf	Gromov Ntks	Edward Island
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite
Additional Data	Group I	Group I	Group I	Group I	Group I	Group I	Group II	Group II	Group II	Group II
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5,9	5,9	5	5	5	5,9	5,9	5	5
SiO_2	50.30	51.50	49.70	51.60	50.10	50.00	48.50	48.20	48.40	49.70
TiO_2	2.52	2.66	2.81	2.00	2.54	2.46	1.44	1.78	1.37	0.93
Al_2O_3	13.98	13.55	13.95	14.20	13.69	13.53	13.98	13.35	14.58	14.51
Fe_2O_3	6.56	6.12	4.95	2.61	4.37	3.01	2.82	3.53	2.84	2.36
FeO	7.70	8.45	9.65	10.27	9.33	10.13	10.31	9.89	9.90	8.94
MnO	0.20	0.24	0.22	0.18	0.18	0.19	0.21	0.22	0.20	0.19
MgO	5.97	3.85	4.58	5.55	5.35	5.23	6.98	6.93	7.13	7.65
CaO	9.85	8.16	9.09	9.55	9.54	9.41	11.46	11.28	12.14	12.70
Na_2O	2.27	2.48	2.47	2.36	2.30	2.40	2.33	2.43	2.22	1.90
K_2O	0.79	1.28	0.99	0.62	0.83	1.02	0.18	0.24	0.19	0.34
P_2O_5	0.30	0.61	0.35	0.21	0.31	0.32	0.11	0.18	0.11	0.06
H_2O+	0.41			0.90	1.13	0.98	0.58	0.37	0.95	0.67
H_2O-	0.08						0.09	0.04		
CO_2				0.11	<0.05	1.43			<0.05	0.14
Rest	0.24	0.26	0.25	0.23	0.24	0.25	0.17	0.17	0.16	0.18
TOTAL	101.17	99.16	99.01	100.39	99.86	100.36	99.16	98.61	100.14	100.27
Ba	337	530	413	309	332	474	74	88	38	138
Rb	20	35	28	16	22	24	4	5	4	8
Sr	379	459	424	298	377	367	167	186	134	157
Pb	2	5	4	4	3	6	1	1	2	2
Th	3	4	4	3	3	2	1	2	<1	1
U	<1	1	1	1	<1	<1	<1	<1	<1	1
Zr	164	287	204	154	192	194	72	108	80	55
Nb	14	28	19	14	20	19	3	7	2	2
Y	29	41	29	23	26	26	22	28	26	19
La	25	43	29	22	26	27	7	9	3	4
Ce	51	91	68	46	56	59	13	20	16	17
Nd				25	31	32			10	8
Sn	<1	2	2				1	1		
V	390	241	339	322	369	348	329	294	364	300
Cr	69	23	43	95	58	62	120	166	168	264
Ni	73	24	48	56	54	61	100	79	70	86
Cu	119	50	80	193	79	72	182	124	102	118
Zn	101	126	116	99	97	104	91	98	85	70
Ga	17	21	22	22	21	19	18	18	20	18

Napier Complex Mafic Intrusives

Sample Number	77283947	77283957B	77284104	77284113	77284310	77284624	77284659	77284757	77284859	77284590
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land
Locality	Priestley Peak	Priestley Peak	Mount Bride	Mount Arthur	Mount Biscoe	Mount Dyke	Geoffrey Hills	Waratah Island	Wallis Ntks	Ward Rocks
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Additional Data	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9
SiO_2	49.90	49.90	47.80	49.70	49.10	49.80	51.90	51.30	48.70	50.10
TiO_2	1.39	1.61	2.17	1.19	1.69	1.30	1.18	0.75	1.42	1.63
Al_2O_3	13.70	13.50	12.30	14.19	13.34	13.81	13.64	12.89	13.51	13.30
Fe_2O_3	3.23	6.02	2.99	4.45	3.32	4.15	2.85	2.77	5.31	2.96
FeO	9.68	8.00	13.22	7.89	9.68	9.16	10.66	11.69	8.42	11.15
MnO	0.21	0.23	0.24	0.21	0.21	0.22	0.21	0.23	0.23	0.22
MgO	6.97	6.35	5.80	6.74	6.53	6.70	6.06	6.40	6.23	6.93
CaO	11.30	10.90	10.29	11.90	10.65	11.45	10.28	10.54	11.19	10.54
Na_2O	2.46	2.41	2.13	2.32	2.39	2.48	2.52	2.47	2.97	2.27
K_2O	0.41	0.59	0.42	0.33	0.43	0.35	0.56	0.36	0.29	0.43
P_2O_5	0.13	0.16	0.23	0.09	0.19	0.13	0.12	0.08	0.12	0.16
H_2O+	0.45	0.42	1.04	0.49	0.97	0.32	0.57	0.45	0.39	0.39
H_2O-	0.12	0.03	0.06	0.15	0.08	0.01	0.04	0.06	0.02	0.07
CO_2										
Rest	0.16	0.18	0.19	0.16	0.19	0.16	0.17	0.15	0.16	0.19
TOTAL	100.11	100.30	98.88	99.81	98.77	100.04	100.76	100.14	98.96	100.34
Ba	107	158	106	70	202	82	231	139	82	154
Rb	16	18	13	14	12	14	15	11	11	9
Sr	134	125	136	120	230	119	143	79	142	209
Pb	1	3	6	<1	3	2	5	4	2	2
Th	1	1	2	2	1	1	2	3	1	2
U	<1	<1	1	<1	1	<1	<1	1	<1	<1
Zr	92	110	135	75	101	85	88	55	84	101
Nb	2	4	5	1	5	2	5	1	2	7
Y	31	36	45	28	30	31	29	29	30	26
La	8	9	10	7	12	7	15	11	5	12
Ce	16	19	22	11	19	14	21	15	9	23
Nd										
Sn	1	1	1	<1	<1	1	1	<1	1	<1
V	366	395	340	313	286	338	264	278	386	321
Cr	78	58	217	152	184	113	59	101	72	154
Ni	59	60	66	72	73	58	71	69	53	81
Cu	139	186	80	158	102	171	150	136	81	157
Zn	82	104	153	81	99	82	98	109	92	104
Ga	17	17	19	16	18	17	17	16	16	17

Napier Complex Mafic Intrusives

Sample Number	80285046A	ANT3851	ANT3883	ANT3887	ANT66	77283415	77284317	77284835	77284591	78285051
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Cape Batterbee	Mount Maines	Mount Dyke	Ntk W of Mt Dyke	Newman Ntks	Mount Marsland	Mount Oldfield	Mount Trail	Howard Hills	Beaver Island
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite
Additional Data	Group II	Group II	Group II	Group II	Group II					
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5	5	5	5	5,9	5,9	5,9	5,9	5,9
SiO_2	51.30	50.80	49.60	50.00	49.60	47.20	44.80	47.50	45.60	46.20
TiO_2	1.01	1.41	2.15	1.35	2.14	2.19	3.31	2.28	3.29	2.94
Al_2O_3	12.16	12.45	12.82	14.06	12.41	14.65	15.13	14.66	15.20	14.19
Fe_2O_3	3.30	3.20	2.35	4.10	3.01	2.77	4.79	4.57	3.97	5.07
FeO	13.90	13.26	13.19	9.18	13.39	11.83	10.13	10.41	11.12	11.94
MnO	0.22	0.23	0.23	0.22	0.23	0.20	0.22	0.19	0.22	0.26
MgO	4.88	4.83	5.60	6.57	5.61	6.42	5.93	6.30	5.61	5.31
CaO	9.72	9.66	10.00	11.49	10.11	9.44	8.78	9.43	8.70	8.36
Na_2O	2.51	2.26	2.18	2.15	2.20	2.66	2.84	2.61	2.70	2.46
K_2O	0.34	0.24	0.40	0.36	0.36	0.98	1.66	1.05	1.83	1.48
P_2O_5	0.11	0.13	0.23	0.10	0.22	0.33	1.01	0.34	1.04	0.36
H_2O+		1.11	0.81	0.46	0.71	0.38	0.59	0.18	0.64	0.63
H_2O-						0.09	0.11	0.09	0.02	0.04
CO_2		<0.05	0.44	0.11	<0.05					
Rest	0.14	0.17	0.19	0.17	0.18	0.23	0.33	0.24	0.32	0.25
TOTAL	99.59	99.70	100.19	100.32	100.12	99.37	99.63	99.85	100.26	99.49
Ba	140	91	132	80	121	571	1330	615	1330	661
Rb	10	7	8	13	9	25	39	27	39	43
Sr	59	72	132	111	120	240	480	240	430	237
Pb	3	3	4	2	3	7	2	7	4	7
Th	4	2	2	2	2	7	4	6	6	8
U	1	1	1	1	1	<1	1	1	<1	1
Zr	65	96	166	86	140	162	130	177	139	202
Nb	2	3	9	3	8	12	27	13	31	24
Y	32	40	41	28	39	34	28	36	29	49
La	13	4	12	6	10	30	40	30	39	43
Ce	13	15	30	19	28	54	69	49	73	68
Nd		11	19	10	18					
Sn						<1	<1	<1	<1	<1
V	277	399	329	359	364	203	247	229	252	285
Cr	76	44	114	121	118	130	90	118	65	41
Ni	60	51	75	56	56	118	52	116	31	51
Cu	111	179	144	171	91	46	36	46	37	57
Zn	136	123	124	76	119	118	110	115	100	139
Ga	17	18	19	20	20	21	19	20	17	20

Napier Complex Mafic Intrusives

Sample Number	76283012	ANT3440	ANT3837	77283430	77283917	77283977	77284619	77284707	76283030	ANT3856
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Seavers Ridge	Seavers Ridge	Debenham Peak	Mt Riiser-Larsen	Tonagh Island	Mount Bennett	Dick Peaks	Mount Berrigan	Mount Douglas	Mount Oldfield
Rock type	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,9	5	5	5,9	5,9	5,9	5,9	5,9	5,9	5
SiO_2	46.40	46.60	49.10	49.40	50.10	52.80	53.70	49.30	52.50	48.80
TiO_2	3.10	3.00	1.42	2.16	1.67	1.52	0.82	2.66	1.21	2.83
Al_2O_3	14.31	14.24	14.30	12.57	14.02	12.92	14.00	13.17	13.95	12.27
Fe_2O_3	4.68	3.38	1.66	5.61	3.57	5.45	1.74	2.66	3.42	5.00
FeO	12.70	13.58	11.19	10.43	9.15	9.75	9.26	11.61	9.34	12.01
MnO	0.28	0.26	0.21	0.24	0.18	0.21	0.18	0.22	0.21	0.22
MgO	4.85	5.18	7.35	5.27	6.28	4.55	6.07	6.37	5.63	4.67
CaO	8.28	8.33	12.10	9.65	10.37	8.59	10.19	10.30	9.49	8.78
Na_2O	2.75	2.56	1.93	2.74	2.12	2.55	1.82	2.40	2.83	2.61
K_2O	1.53	1.52	0.11	0.80	0.65	1.17	0.96	0.56	0.84	1.00
P_2O_5	0.35	0.36	0.07	0.72	0.20	0.24	0.11	0.27	0.13	0.47
H_2O+		0.79	0.54	0.31	0.40	0.39	0.22	1.00		0.73
H_2O-				0.07	0.08	0.13	0.03	0.05		
CO_2		0.33	<0.05							0.07
Rest	0.27	0.27	0.16	0.21	0.21	0.23	0.17	0.23	0.17	0.26
TOTAL	99.50	100.40	100.09	100.18	99.00	100.50	99.27	100.80	99.72	99.72
Ba	845	750	46	321	286	478	272	139	376	390
Rb	48	45	1	30	18	33	44	12	18	33
Sr	245	230	152	147	360	250	117	277	187	144
Pb	7	7	1	3	3	6	8	<1	5	5
Th	7	7	<1	1	1	4	7	2	4	3
U	1	1	<1	1	<1	<1	2	1	<1	1
Zr	212	234	39	200	107	124	101	170	121	196
Nb	27	32	3	8	7	5	6	13	5	12
Y	47	49	16	55	22	33	24	32	25	50
La	41	45	<2	20	20	19	26	17	18	18
Ce	78	83	9	40	36	36	38	41	37	47
Nd		38	5							27
Sn	3			1	<1	2	1	1	1	
V	279	295	357	332	294	412	255	375	232	564
Cr	30	41	169	88	78	41	43	180	39	37
Ni	31	58	94	60	76	61	98	75	48	50
Cu	43	55	120	117	134	68	110	201	63	133
Zn	120	134	81	137	94	116	78	110	87	142
Ga	22	23	20	18	18	18	16	20	18	21

Napier Complex Mafic Intrusives

Sample Number	ANT4908	77283949C	77283949D	77283950	77283951A	8055.450	8055.479
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Seavers Ridge	Priestley Peak	Priestley Peak	Priestley Peak	Priestley Peak	Khmara Bay	Khmara Bay
Rock type	Quartz tholeiite	Alk. mela-syenite	Alk. mela-syenite	Alk. mela-syenite	Alk. mela-syenite	Qz alkali syenite	Alkali granite
Additional Data							
Age	Protero	Ordovician	Ordovician	Ordovician	Ordovician	Ordovician	Ordovician
Bibliog. ref.	5	5,8	5,8	5,8	5,8	23	23
SiO_2	58.30	52.60	49.60	50.40	52.00	58.60	67.25
TiO_2	1.96	3.40	3.27	3.52	2.85	1.04	0.90
Al_2O_3	13.37	8.67	9.10	8.95	8.74	9.36	10.00
Fe_2O_3	2.74	2.03	2.45	1.97	3.19	8.18	6.98
FeO	7.28	4.12	4.06	4.63	3.39		
MnO	0.17	0.09	0.08	0.10	0.11	0.09	0.09
MgO	3.31	7.43	8.77	8.55	7.29	2.89	1.21
CaO	6.53	4.97	5.32	5.47	4.54	3.50	1.73
Na_2O	2.50	0.73	0.89	0.85	1.90	0.80	0.31
K_2O	2.56	8.32	9.83	8.49	8.34	9.84	8.33
P_2O_5	0.38	3.05	3.28	3.32	2.76	1.85	0.68
H_2O+	0.62	0.77	0.84	0.86	0.88		
H_2O-		0.05	0.06	0.02	0.04		
CO_2	0.18	0.16	0.02	0.02	0.06		
Rest	0.37	2.48	1.87	1.96	2.24	1.67	0.85
TOTAL	100.27	98.87	99.44	99.11	98.33	97.82	98.33
Ba	1605	15100	9700	10100	13600	11340	4870
Rb	45	252	314	284	186	214	166
Sr	284	2910	2950	2950	2350	1472	489
Pb	11	24	58	28	83		
Th	1	7	48	21	10		
U	1	7	6	10	8		
Zr	423	1770	1420	1780	1690	976	1334
Nb	21	59	43	63	49		
Y	32	32	36	39	29	85	79
La	55	172	138	173	153		
Ce	95	294	268	335	273		
Nd	46						
Sn		<1	1	1	<1		
V	206	168	143	152	170	90	50
Cr	39	274	348	362	249	71	24
Ni	38	243	298	300	220	54	39
Cu	46	7	80	27	94	67	20
Zn	81	82	86	85	78	125	106
Ga	19	13	15	15	12	27	17

Rayner Complex Felsic Gneisses

Sample Number	76283038	77283476	77283493	77283498	77283499	77283500	77284192	77284691	77284811	77283554
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Enderby Land	Kemp Land	Enderby Land
Locality	Molodezhnaya	Mount Robinson	Papanin Ntks	Ward Ntks	Ward Ntks	Dismal Mts	Kitchenside Gl.	Forefinger Point	Georges Island	Mount Underwood
Rock type	Cp-op-qz-pl gneiss	Op-qz-pl gneiss	Op-qz-pl gneiss	Hb-op-qz-pl gneiss	Hb-op-qz-pl gneiss	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss	Bi-qz-kf-pl gneiss	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss
Additional Data	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	63.80	66.30	66.40	63.70	57.00	67.30	68.10	65.70	74.40	66.40
TiO_2	0.64	0.56	0.38	0.51	0.66	0.77	0.77	1.20	0.24	0.54
Al_2O_3	15.49	15.28	17.38	16.24	18.35	14.57	14.36	14.45	13.77	16.11
Fe_2O_3	2.28	1.65	1.99	2.68	3.17	1.81	2.63	3.35	1.21	0.72
FeO	3.28	3.53	1.71	2.25	3.52	2.91	2.53	2.52	0.88	2.54
MnO	0.12	0.18	0.04	0.10	0.12	0.07	0.04	0.06	0.02	0.17
MgO	3.14	1.91	0.96	2.85	3.76	0.80	1.07	1.58	0.43	1.66
CaO	5.65	4.59	5.05	6.07	8.01	3.33	3.37	3.02	2.23	3.40
Na_2O	3.31	3.76	3.77	3.72	4.02	2.81	2.73	3.77	3.03	3.52
K_2O	1.89	1.34	1.36	0.74	0.51	4.52	4.01	2.32	4.62	4.58
P_2O_5	0.11	0.14	0.02	0.13	0.20	0.31	0.18	0.33	0.06	0.12
H_2O+		0.25	0.20	0.34	0.31	0.31	0.34	0.49	0.14	0.30
H_2O-		0.10	0.13	0.10	0.09	0.08	0.02	0.07	0.06	0.06
CO_2										
Rest	0.23	0.19	0.19	0.21	0.22	0.24	0.24	0.31	0.23	0.19
TOTAL	99.94	99.78	99.58	99.64	99.94	99.83	100.39	99.17	101.32	100.31
Ba	1060	769	458	643	478	1020	1130	1260	1420	915
Rb	39	9	17	5	1	141	104	149	101	92
Sr	418	344	580	695	918	181	156	296	121	247
Pb	19	4	10	4	1	28	13	31	27	9
Th	<1	<1	<1	<1	1	2	5	6	9	1
U	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
Zr	76	141	245	91	45	356	249	384	142	131
Nb	4	1	1	6	2	14	7	13	<1	8
Y	12	14	2	17	10	28	13	19	3	13
La	10	11	37	9	7	48	76	55	45	23
Ce	20	18	55	18	13	87	99	94	57	46
Nd										
Sn	1	<1	<1	1	1	<1	1	1	<1	<1
V	98	79	32	87	126	32	52	98	17	19
Cr	84	33	6	41	56	7	17	28	6	8
Ni	24	12	12	25	27	3	8	15	8	3
Cu	15	27	7	15	10	12	12	46	3	4
Zn	49	67	40	65	68	66	59	70	34	71
Ga	17	16	22	18	19	21	19	18	14	14

Rayner Complex Felsic Gneisses

Sample Number	77283564	77283576	77283586	77284577	76283043	76283044	76283050	77283558	77283491	77283494
Area	Enderby Land	Kemp Land	Kemp Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Mount Denholm	Mount Channon	Turbulence Bluffs	Wattle Island	Molodezhnaya	Molodezhnaya	Molodezhnaya	Mount Flett	Krasnaya Ntk	Ward Ntks
Rock type	Bi-op-qz-pl gneiss	Bi-op-qz-pl gneiss	Hb-op-qz-pl gneiss	Op-qz-kf gneiss	Bi-hb-qz-pl gneiss	Bi-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss	Bi-hb-qz-pl-kf gn	Gt-pl-qz-kf gneiss	Gt-qz-kf-pl gneiss
Additional Data	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	59.10	59.70	69.70	75.20	57.40	71.20	66.60	61.70	73.60	71.90
TiO_2	0.84	1.12	0.42	0.18	0.76	0.19	0.58	1.24	0.22	0.56
Al_2O_3	16.40	13.73	15.93	14.13	16.31	14.81	16.12	14.87	14.01	13.98
Fe_2O_3	1.62	1.12	1.81	1.11	3.85	1.70	1.68	2.89	0.79	1.37
FeO	6.34	9.32	2.08	0.52	4.95	1.07	1.74	4.05	0.80	2.15
MnO	0.14	0.20	0.04	0.02	0.20	0.04	0.04	0.08	0.03	0.13
MgO	4.40	5.80	1.08	0.25	4.19	0.45	1.31	2.31	0.55	1.64
CaO	5.81	5.55	4.71	1.43	6.90	1.35	2.84	4.42	1.25	4.16
Na_2O	3.54	1.70	4.77	3.82	3.33	3.13	3.50	2.40	2.88	1.11
K_2O	0.84	0.71	0.21	5.50	1.51	5.97	5.12	4.82	5.88	2.70
P_2O_5	0.24	0.20	0.12	0.04	0.17	0.11	0.50	0.42	0.09	0.07
H_2O+	0.54	0.27	0.32	0.17				0.41	0.28	0.66
H_2O-	0.07	0.05	0.11	0.12				0.05	0.07	0.12
CO_2										
Rest	0.24	0.18	0.15	0.18	0.19	0.20	0.52	0.37	0.20	0.18
TOTAL	100.12	99.65	101.45	102.67	99.76	100.22	100.55	100.03	100.65	100.73
Ba	374	378	176	910	531	584	2690	1280	708	835
Rb	5	17	1	110	131	266	148	159	216	56
Sr	834	149	651	108	353	156	1196	220	310	213
Pb	4	7	3	32	16	36	31	19	52	6
Th	2	2	1	30	3	93	4	10	37	1
U	<1	<1	<1	<1	<1	2	<1	2	4	<1
Zr	96	104	176	156	51	276	64	622	105	125
Nb	5	6	2	4	19	5	5	26	7	4
Y	24	11	4	4	24	10	17	66	6	37
La	16	15	11	57	17	82	77	106	50	15
Ce	31	25	19	85	36	142	132	235	80	27
Nd										
Sn	<1	<1	<1	<1	7	2	1	<1	1	<1
V	191	221	43	5	150	8	40	99	16	33
Cr	119	197	14	5	58	<3	4	36	14	62
Ni	28	74	5	<2	14	2	7	14	5	30
Cu	32	14	8	5	12	5	8	26	30	28
Zn	78	109	45	31	83	37	52	67	19	53
Ga	15	16	16	15	21	22	16	15	16	13

Rayner Complex Felsic Gneisses

Sample Number	77283495	77284372	77284636	77284692	77284806	77283475	77283492	77284371	77283582	65280131
Area	Enderby Land	Enderby Land	Kemp Land	Enderby Land	Kemp Land	Enderby Land	Enderby Land	Enderby Land	Kemp Land	Kemp Land
Locality	Ward Ntks	Sandercock Ntks	Maruff Peaks	Forefinger Point	Georges Island	Mount Robinson	Papanin Ntks	Sandercock Ntks	Turbulence Bluffs	Abrupt Point
Rock type	Gt-qz-kf-pl gneiss	Gt-qz-pl-kf gneiss	Gt-qz-pl-kf gneiss	Gt-qz-mp gneiss	Gt-bi-qz-pl gneiss	Op-qz-pl-kf gneiss	Op-gt-qz-pl gneiss	Gt-qz-pl-kf gneiss	Gt-op-qz-pl gneiss	Gt-cp-qz-pl gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5
SiO_2	70.60	76.50	59.60	74.00	70.40	68.50	65.40	68.90	66.70	57.40
TiO_2	0.54	0.24	0.49	0.01	0.21	0.60	0.70	0.62	0.59	1.40
Al_2O_3	13.79	11.84	19.16	14.28	16.65	14.11	16.63	14.17	16.24	13.85
Fe_2O_3	0.97	0.84	1.97	0.54	0.55	1.60	3.06	1.60	1.47	5.85
FeO	2.51	0.83	2.74	0.22	1.04	3.10	2.35	2.30	2.55	7.90
MnO	0.11	0.03	0.09	0.05	0.02	0.18	0.09	0.06	0.06	0.24
MgO	1.71	0.24	1.28	0.13	0.54	1.19	1.38	0.67	1.44	0.97
CaO	4.06	0.89	3.44	1.14	4.34	2.49	4.65	2.14	5.17	5.22
Na_2O	2.90	2.67	3.05	4.43	4.47	2.65	3.76	2.65	4.64	3.94
K_2O	2.61	5.26	5.85	4.75	1.08	4.87	1.63	5.28	0.40	2.35
P_2O_5	0.07	0.05	0.08	0.02	0.03	0.18	0.19	0.17	0.18	0.40
H_2O+	0.49	0.22	0.60	0.20	0.36	0.32	0.35	0.43	0.39	0.26
H_2O-	0.14	0.06	0.09	0.02	0.05	0.07	0.11	0.01	0.08	0.09
CO_2										
Rest	0.19	0.12	0.24	0.07	0.08	0.25	0.18	0.19	0.14	0.31
TOTAL	100.69	99.79	98.68	99.86	99.82	100.11	100.48	99.19	100.05	100.18
Ba	697	204	1020	164	206	1400	489	623	219	1681
Rb	50	384	222	201	25	58	41	212	4	41
Sr	166	45	228	50	196	260	336	115	526	158
Pb	13	37	44	66	18	10	9	36	5	14
Th	3	30	18	1	<1	1	1	21	2	4
U	<1	2	<1	1	<1	<1	<1	<1	<1	2
Zr	323	127	157	47	25	153	249	255	177	226
Nb	18	8	6	<1	3	4	7	9	5	20
Y	21	27	23	20	1	22	42	32	5	67
La	23	26	44	10	26	12	48	42	19	50
Ce	41	54	72	16	36	23	81	77	31	84
Nd										
Sn	1	4	<1	<1	1	<1	<1	1	<1	<1
V	41	9	51	1	21	44	49	40	39	20
Cr	34	8	30	3	6	13	7	23	17	16
Ni	9	5	9	2	9	10	11	9	9	7
Cu	41	3	5	2	10	36	26	10	16	21
Zn	54	28	57	4	24	97	39	28	48	205
Ga	16	16	22	21	19	17	19	19	16	22

Rayner Complex Mafic Granulites

Sample Number	77283471	77283484	65280209	65280213	65280220	65280221	65280224	75830004	75830008	75830012
Area	Enderby Land	Enderby Land	Kemp Land	Kemp Land	Kemp Land	Kemp Land	Kemp Land	Kemp Land	Kemp Land	Kemp Land
Locality	Mount Robinson	Mount Robinson	Robert Glacier	Rayner Peak	Else Ntks	Else Ntks	Turbulence Bluffs	Rayner Peak	Rayner Peak	Rayner Peak
Rock type	Gt-cp-pl granulite	Hb-px-pl granulite	Gt-cp-pl granulite	Gt-px-pl granulite Metadyke	Gt-px-pl granulite	Gt-cp-pl granulite	Hb-px-pl granulite	Gt-px-pl granulite	Gt-cp granulite	Gt-cp-pl granulite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13
SiO_2	48.10	51.30	46.00	50.90	53.10	48.00	50.20	49.40	34.70	49.30
TiO_2	2.19	1.08	1.73	0.90	0.60	0.56	0.90	0.77	6.18	1.97
Al_2O_3	13.48	16.36	13.53	13.40	14.91	13.58	10.94	13.74	12.43	13.08
Fe_2O_3	3.50	2.70	2.57	1.91	1.61	2.59	3.18	1.42	2.40	2.83
FeO	11.06	6.06	13.10	10.90	8.20	10.20	10.00	9.40	20.60	14.20
MnO	0.21	0.13	0.30	0.21	0.21	0.23	0.26	0.22	0.33	0.25
MgO	6.45	7.61	6.95	6.94	7.21	9.69	8.39	9.19	7.34	6.00
CaO	10.70	9.81	11.27	10.62	10.53	13.15	11.41	12.12	11.95	10.65
Na_2O	2.90	3.50	2.25	2.64	2.90	1.26	2.58	2.39	0.39	1.27
K_2O	0.28	0.57	1.00	0.38	0.19	0.08	0.27	0.44	0.10	0.15
P_2O_5	0.22	0.17	0.21	0.07	0.08	0.03	0.09	0.07	2.99	0.23
H_2O+	0.13	0.67	0.75	0.28	0.19	0.26	0.71	0.46	0.27	0.20
H_2O-	0.03	0.10	0.06	0.08	0.05	0.07	0.07	0.07	0.07	0.08
CO_2										
Rest	0.18	0.19	0.17	0.14	0.15	0.11	0.21	0.15	0.20	0.15
TOTAL	99.43	100.25	99.89	99.37	99.93	99.81	99.21	99.84	99.95	100.36
Ba	80	250	161	102	143	37	110	55	183	58
Rb	1	1	14	3	<1	2	1	5	8	2
Sr	329	355	157	141	159	52	132	80	58	52
Pb	1	2	6	7	4	<1	1	2	2	<1
Th	<1	1	1	1	1	<1	<1	1	1	6
U	<1	<1	2	<1	<1	<1	<1	1	2	2
Zr	108	85	84	38	54	38	56	41	210	143
Nb	7	27	16	2	3	1	5	5	43	10
Y	23	20	31	23	19	20	31	21	80	48
La	9	11	14	11	9	2	14	5	85	25
Ce	24	22	25	15	10	<1	27	1	158	38
Nd										
Sn	1	<1	1	<1	1	1	2	1	1	<1
V	356	199	408	285	176	247	257	263	368	308
Cr	95	286	72	157	215	97	551	344	89	91
Ni	65	73	33	64	119	78	136	129	22	55
Cu	61	11	58	42	63	89	51	5	15	91
Zn	124	89	113	86	112	85	131	71	117	114
Ga	23	17	18	16	15	12	13	15	13	16

Rayner Complex Mafic Granulites

Sample Number	75830019	77283581	77284647	77284813	75830271	77283755
Area	Kemp Land	Kemp Land	Enderby Land	Kemp Land	Kemp Land	Enderby Land
Locality	Rayner Peak	Turbulence Bluffs	Forefinger Point	Georges Island	Jensen Island	Amphith. Lakes
Rock type	Gt-cp-pl granulite	Gt-px-pl granulite	Op-hb-cp granulite	Px-hb-pl granulite	Hb-px-pl granulite	Anortho-site
Additional Data		Metadyke		Metadyke	Metadyke	
Age	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5,13	5,13	5,13	5,13	5,13	5
SiO_2	44.80	49.20	47.00	48.70	56.60	51.40
TiO_2	2.23	1.00	1.44	1.35	0.88	0.03
Al_2O_3	12.27	13.25	7.32	13.45	12.98	30.00
Fe_2O_3	2.45	2.05	6.04	3.41	1.02	0.17
FeO	15.90	9.78	10.74	10.30	10.72	0.34
MnO	0.28	0.22	0.21	0.23	0.17	0.01
MgO	6.82	7.73	14.17	7.10	4.08	0.37
CaO	11.40	12.35	11.24	11.77	8.12	14.34
Na_2O	1.40	2.82	1.11	2.02	3.43	2.59
K_2O	0.36	0.23	1.08	0.24	0.74	0.46
P_2O_5	0.23	0.08	0.27	0.10	0.13	0.01
H_2O+	0.43	0.58	0.64	1.31	0.37	0.17
H_2O-	0.06	0.05	0.14	0.05		0.03
CO_2					0.50	
Rest	0.16	0.13	0.46	0.17	0.15	0.04
TOTAL	98.79	99.47	101.86	100.20	99.89	99.96
Ba	45	31	491	48	341	87
Rb	3	6	50	8	8	5
Sr	110	100	198	119	125	153
Pb	2	<1	<1	1	2	6
Th	<1	2	<1	1	1	<1
U	<1	<1	<1	<1	<1	<1
Zr	129	49	111	67	110	1
Nb	6	1	8	2	9	1
Y	49	23	20	29	28	3
La	10	4	24	3	21	11
Ce	15	9	42	6	31	15
Nd					15	
Sn	1	<1	3	<1		<1
V	403	322	260	414	196	3
Cr	104	142	1435	85	39	3
Ni	76	56	452	71	43	4
Cu	15	48	109	224	88	9
Zn	127	79	136	93	97	10
Ga	19	14	14	17	13	15

Rayner Complex Metasediments

Sample Number	77284648	77284651	77284653	77284654	77284655
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Forefinger Point	Forefinger Point	Forefinger Point	Forefinger Point	Forefinger Point
Rock type	Si-op-bi-cd pelite	Si-op-bi-cd pelite	Sa-op-bi-cd pelite	Bi-si-cd-op pelite	Gt-op-bi-cd pelite
Additional Data					
Age	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	5	5	5	5	5
SiO_2	62.80	65.40	45.00	48.70	41.20
TiO_2	0.34	1.14	1.38	1.99	2.31
Al_2O_3	19.18	14.91	23.04	20.81	21.91
Fe_2O_3	0.78	1.68	1.88	0.87	3.07
FeO	2.95	2.70	5.15	6.40	7.65
MnO	0.09	0.04	0.05	0.06	0.15
MgO	7.32	9.15	17.20	15.43	15.32
CaO	0.09	0.39	0.47	0.62	0.67
Na_2O	1.38	1.26	0.52	1.56	0.50
K_2O	3.08	0.83	3.24	1.97	4.62
P_2O_5	0.02	0.06	0.21	0.12	0.20
H_2O+	0.76	0.53	1.44	0.81	1.75
H_2O-	0.10	0.08	0.06	0.08	0.06
CO_2					
Rest	0.14	0.15	0.26	0.26	0.37
TOTAL	99.03	98.32	99.90	99.68	99.78
Ba	272	108	193	150	741
Rb	173	38	241	131	358
Sr	36	19	32	28	41
Pb	15	5	7	8	8
Th	51	73	89	113	93
U	2	12	16	23	9
Zr	270	405	635	677	806
Nb	22	36	29	55	64
Y	7	33	40	50	30
La	51	118	191	177	128
Ce	74	196	321	301	216
Nd					
Sn	<1	1	3	2	4
V	42	63	98	166	210
Cr	12	20	35	30	38
Ni	10	19	34	32	52
Cu	3	3	3	4	3
Zn	52	20	44	34	83
Ga	34	16	26	28	26

Rayner Complex Granitic Intrusives

Sample Number	77284367	77284603	77284680	77284366	77284368	77284601	77284602	77284678	77284679	76283040
Area	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land	Enderby Land
Locality	Sandercock Ntks	Mount Sibiryakov	Vechernyy Hill	Sandercock Ntks	Sandercock Ntks	Mount Sibiryakov	Mount Sibiryakov	Vechernyy Hill	Vechernyy Hill	Molodez-hnaya
Rock type	Hb-op granod	Hb-bi granod	Hb-bi granod gn	Op-hb granite	Hb-cp-op granite	Bi granite gneiss	Bi-gt granite	Gt-hb granite gn	Hb-bi granite gn	Bi granite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Cambrian
Bibliog. ref.	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
SiO_2	55.60	54.00	53.50	62.80	55.70	71.60	73.20	64.60	64.30	72.80
TiO_2	0.89	2.19	1.90	1.10	1.62	0.22	0.29	1.34	1.44	0.21
Al_2O_3	21.19	15.60	15.55	15.51	16.82	15.13	13.81	13.57	13.65	13.52
Fe_2O_3	2.05	4.54	4.01	2.50	4.38	1.07	0.81	2.86	2.70	1.40
FeO	3.96	5.31	6.98	3.74	4.74	0.92	1.06	3.95	4.50	0.94
MnO	0.11	0.13	0.17	0.11	0.15	0.02	0.03	0.11	0.13	0.03
MgO	1.69	3.95	4.30	1.93	2.31	0.37	0.42	1.22	1.43	0.38
CaO	6.40	6.55	7.29	4.20	5.27	1.27	1.31	3.79	3.66	0.99
Na_2O	4.06	2.63	2.12	3.05	3.17	3.63	2.49	1.82	2.21	2.68
K_2O	2.44	2.55	1.91	4.32	3.92	5.41	6.05	4.83	4.52	6.01
P_2O_5	0.36	1.24	0.46	0.32	0.53	0.07	0.09	0.34	0.40	0.05
H_2O+	0.73	0.74	0.82	0.67	0.46	0.49	0.28	0.41	0.53	
H_2O-	0.06	0.08	0.11	0.05	0.07	0.04	0.07	0.09	0.12	
CO_2										
Rest	0.31	0.46	0.44	0.30	0.41	0.23	0.22	0.33	0.31	0.49
TOTAL	99.85	99.97	99.56	100.60	99.55	100.47	100.13	99.26	99.90	99.50
Ba	1310	1500	972	1160	1810	881	924	1320	1180	3530
Rb	51	84	61	159	92	200	212	214	212	223
Sr	603	1060	384	361	451	142	189	260	218	382
Pb	21	19	1300	29	22	59	50	22	23	38
Th	<1	8	1	3	2	77	47	15	30	6
U	<1	1	<1	<1	1	3	3	<1	<1	<1
Zr	266	207	183	324	543	230	208	350	330	80
Nb	9	27	12	14	18	11	7	19	24	2
Y	22	24	36	37	41	6	8	52	56	7
La	37	125	47	48	69	91	44	96	104	18
Ce	65	230	99	130	128	137	77	196	193	24
Nd										
Sn	<1	3	123	2	<1	3	1	3	4	<1
V	47	173	182	74	92	11	18	76	83	18
Cr	39	83	72	37	27	8	8	10	12	<3
Ni	11	36	50	13	11	4	6	6	7	3
Cu	9	57	43	14	16	4	6	16	17	5
Zn	81	118	109	79	104	37	18	86	98	24
Ga	29	21	24	21	24	21	14	18	20	14

Rayner Complex Granitic Intrusives

Sample Number	76283052
Area	Enderby Land
Locality	Molodez-hnaya
Rock type	Bi granite
Additional Data	
Age	Cambrian
Bibliog. ref.	5,6

SiO_2	72.30
TiO_2	0.18
Al_2O_3	14.30
Fe_2O_3	1.73
FeO	0.83
MnO	0.02
MgO	0.31
CaO	1.20
Na_2O	3.24
K_2O	5.79
P_2O_5	0.05
H_2O+	
H_2O-	
CO_2	
Rest	0.22
TOTAL	100.17

Ba	535
Rb	274
Sr	128
Pb	37
Th	145
U	4
Zr	255
Nb	6
Y	11
La	144
Ce	252
Nd	
Sn	3
V	6
Cr	3
Ni	2
Cu	11
Zn	16
Ga	22

Archaean Felsic Gneisses

Sample Number	73281297	73281709	73281710	73281917	73281918	73281924	73282110	73281238	73281413	73281933
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Blake Ntks	Keyser Ridge	Keyser Ridge	Mount Twigg	Mount Twigg	Mount Twigg	Mawson Esc. A	Cumpston Massif	Mawson Esc. B	Cumpston Massif
Rock type	Mus-bi-qz-pl gneiss	Bi-qz-kf-pl gneiss	Bi-qz-pl-kf gneiss	Bi-qz-kf-pl gneiss	Bi-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss	Hb-qz-kf-pl gneiss	Bi-qż-pl-kf gneiss	Hb-qz-pl-kf gneiss
Additional Data	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	75.50	73.20	71.60	73.70	72.00	63.80	78.10	68.50	78.50	77.60
TiO_2	0.05	0.11	0.60	0.22	0.17	0.22	0.06	0.30	0.15	0.28
Al_2O_3	14.57	14.44	13.34	14.61	15.16	14.45	12.06	15.93	11.68	11.21
Fe_2O_3	<0.05	0.14	1.33	0.31	0.20	0.96	0.31	0.97	0.39	0.69
FeO	0.50	0.80	2.35	1.15	1.30	4.60	0.55	1.75	1.05	2.05
MnO	<0.01	0.04	0.06	0.03	0.01	0.09	0.01	0.04	0.02	0.06
MgO	0.09	0.32	0.71	0.44	0.30	0.83	<0.10	0.71	0.06	0.08
CaO	2.23	1.40	1.89	1.43	1.22	3.76	0.25	3.17	0.63	0.70
Na_2O	5.10	5.85	3.65	4.20	3.95	3.20	4.35	5.85	3.15	4.45
K_2O	1.39	2.60	4.17	3.98	5.23	6.27	4.21	1.39	4.89	2.98
P_2O_5	0.03	0.07	0.19	0.09	0.06	0.39	0.01	0.09	0.03	0.06
H_2O+	0.28	0.18	0.50	0.18	0.46	0.40	0.20	0.46	0.26	0.20
H_2O-										
CO_2										
Rest	0.12	0.10	0.25	0.15	0.18	0.52	0.06	0.20	0.13	0.24
TOTAL	99.80	99.25	100.64	100.49	100.24	99.49	100.07	99.36	100.94	100.60
Ba	523	256	680	415	739	3120	99	547	285	1242
Rb	54	112	174	118	196	159	114	28	218	47
Sr	246	222	210	278	200	768	18	835	37	39
Pb	27	25	25	20	58	15	12	4	21	3
Th	13	8	32	16	49	9	19	4	20	6
U	4	1	7	<1	7	2	2	1	4	2
Zr	68	71	340	159	91	12	82	131	182	464
Nb	5	12	24	11	7	3	3	4	13	11
Y	3	8	50	18	7	30	34	9	67	49
La	3	15	154	37	32	85	26	10	53	27
Ce	47	29	269	70	64	190	54	25	104	55
Nd										
Sn										
V	3	5	39	12	9	47	<1	20	2	2
Cr	<3	5	12	11	7	11	<3	<3	4	<3
Ni	7	2	9	5	3	5	<2	3	2	2
Cu	16	7	8	3	3	1	3	<2	4	3
Zn	6	30	60	28	25	57	11	42	67	54
Ga	17	20	19	17	19	20	18	20	21	18

Archaean Felsic Gneisses

Sample Number	73281934	73282113	73282120	74282541	74282542	74282549	73281411	73281484	73281485	74282551
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Cumpston Massif	Mawson Esc. A	Mawson Esc. A	Mawson Esc. A	Mawson Esc. A	Mawson Esc. A	Mawson Esc. B	Mawson Esc. D	Mawson Esc. D	Mawson Esc. A
Rock type	Hb-qz-kf-pl gneiss	Hb-qz-kf-pl gneiss	Hb-qz-pl-kf gneiss	Hb-qz-kf-pl gneiss	Bi-qz-kf-pl gneiss	Bi-qz-pl-kf gneiss	Bi-qz-kf-pl gneiss	Bi-hb-kf-pl gneiss	Qz-hb-kf-pl gneiss	Bi-hb-kf-pl gneiss
Additional Data	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss	Hb gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	75.00	69.80	74.90	70.10	77.20	76.30	71.60	62.00	53.20	64.00
TiO_2	0.47	0.61	0.35	0.45	0.27	0.26	0.32	0.68	1.38	0.16
Al_2O_3	11.35	11.56	11.23	13.15	11.43	10.80	14.99	17.64	14.38	18.47
Fe_2O_3	0.94	2.00	1.58	1.60	<0.05	1.43	1.15	2.05	3.14	0.96
FeO	3.20	5.50	2.30	4.45	1.74	1.70	1.20	2.35	8.20	2.00
MnO	0.06	0.11	0.05	0.09	0.02	0.02	0.02	0.10	0.22	0.05
MgO	0.20	1.13	0.26	0.79	0.64	0.12	0.92	0.67	3.80	0.28
CaO	1.50	1.94	1.18	2.09	0.50	0.26	2.66	2.31	6.78	0.99
Na_2O	4.55	3.35	3.75	4.20	4.35	3.10	4.85	7.60	4.75	8.00
K_2O	2.38	2.26	3.58	2.57	2.82	4.73	1.83	3.63	2.04	4.06
P_2O_5	0.07	0.12	0.11	0.13	0.05	0.02	0.10	0.16	0.20	0.01
H_2O+	0.30	0.68	0.42	0.60	0.26	0.30	0.50	0.62	1.50	0.38
H_2O-										
CO_2										
Rest	0.26	0.17	0.19	0.16	0.17	0.19	0.13	0.32	0.32	0.19
TOTAL	100.28	99.23	99.90	100.38	99.40	99.23	100.27	100.13	99.91	99.55
Ba	1197	535	589	613	557	481	308	1149	579	456
Rb	42	90	75	96	53	134	52	111	64	76
Sr	103	124	59	138	62	20	318	124	110	62
Pb	7	13	12	16	7	9	19	18	19	8
Th	10	11	9	8	11	17	6	18	21	14
U	3	2	2	2	1	4	<1	3	4	2
Zr	440	288	432	210	405	522	145	583	523	488
Nb	20	15	20	15	14	23	4	59	52	9
Y	66	67	73	46	55	104	4	96	91	90
La	50	39	51	27	66	76	23	162	59	74
Ce	96	80	106	60	131	125	40	252	149	177
Nd										
Sn							1			
V	11	<1	12	<1	9	<1	26	24	169	6
Cr	4	3	4	5	5	<3	20	8	101	5
Ni	2	2	4	2	5	2	15	5	52	4
Cu	<2	19	6	11	8	8	3	<2	<2	19
Zn	70	64	64	85	24	43	59	61	515	51
Ga	19	18	19	19	16	20	17	15	18	31

Archaean Granitic Intrusives

Sample Number	72280758	72280796	73281015	73281048A	73281076	73281378	73281383	73281421	73281633	73281926
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Stinear	Mount Stinear	Mount Bloomfield	Mount McCauley	Mount Rymill	Mount Stinear	Mount Stinear	Mawson Esc. C	Mount Stinear	Cumpston Massif
Rock type	Bi-hb gran gneiss	Hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi-hb gran gneiss	Bi granite gneiss
Additional Data	Hb granite	Hb granite	Hb granite	Hb granite	Hb granite	Hb granite	Hb granite	Hb granite	Hb granite	
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	1,2,6	1,2,6	1,2,6,19	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	71.10	76.60	72.10	71.00	71.60	70.90	70.70	71.80	69.30	78.60
TiO_2	0.82	0.34	0.76	0.78	0.79	0.70	0.78	0.73	0.94	0.21
Al_2O_3	12.22	11.23	12.22	12.34	12.29	12.02	12.16	11.93	12.39	11.21
Fe_2O_3	1.06	0.88	1.09	1.41	1.30	1.68	1.25	1.34	1.64	0.28
FeO	3.60	1.45	3.50	3.70	3.45	2.95	3.40	2.95	3.90	1.25
MnO	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.11	0.03
MgO	0.58	0.33	0.57	0.72	0.56	0.62	0.62	0.57	0.92	0.32
CaO	2.52	1.14	2.31	2.29	2.10	2.06	2.16	2.07	2.73	1.20
Na_2O	3.10	2.10	2.75	2.40	2.70	2.65	2.90	2.95	2.95	4.80
K_2O	4.12	6.11	4.47	4.62	4.71	4.56	4.43	4.44	4.09	1.01
P_2O_5	0.22	0.04	0.21	0.22	0.19	0.20	0.22	0.21	0.28	0.05
H_2O+	0.62	0.24	0.56	0.46	0.70	0.46	0.76	0.40	0.50	0.20
H_2O-										
CO_2										
Rest	0.26	0.21	0.25	0.27	0.30	0.27	0.27	0.31	0.37	0.18
TOTAL	100.29	100.74	100.86	100.28	100.76	99.14	99.72	99.77	100.12	99.34
Ba	705	682	766	720	833	688	771	837	994	388
Rb	151	168	144	220	187	162	160	174	168	34
Sr	84	40	103	68	72	67	80	70	98	196
Pb	13	16	18	27	27	27	26	25	21	12
Th	25	16	25	35	29	35	33	31	31	18
U	2	3	3	5	3	6	3	6	5	3
Zr	570	482	516	535	680	626	526	745	946	417
Nb	60	26	60	61	69	66	58	68	68	23
Y	85	100	81	89	91	100	82	102	116	86
La	112	25	73	112	86	101	130	109	131	86
Ce	192	109	151	213	215	209	232	207	243	159
Nd										
Sn	5	8								
V	28	2	28	27	22	19	28	18	26	3
Cr	10	<3	11	12	11	6	8	8	10	<3
Ni	7	14	6	6	6	6	6	4	6	4
Cu	8	<2	20	9	12	9	8	16	43	10
Zn	53	68	53	71	73	68	69	69	66	27
Ga	16	16	16	16	16	17	16	17	18	17

Archaean Granitic Intrusives

Sample Number	73281541	73281542	73281543	R11371	73281285	73281551	73281624	73281723	73281730	73281852A
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Bayliss	Mount Bayliss	Mount Bayliss	Mount Bayliss	Mount Ruker	Mount Ruker	Mount Ruker	Mount Ruker	Mount Ruker	Mount Ruker
Rock type	Bi granite gneiss	Hb-bi granite gn	Bi granite gneiss	Bi granite gneiss	Bi granite	Bi granite	Bi granite	Bi granite	Bi granite	Bi granite
Additional Data										
Age	Archaean	Archaean	Archaean	?Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	69.70	69.60	69.50	76.30	75.70	73.70	75.60	72.00	75.10	71.40
TiO_2	0.68	0.68	0.55	0.21	0.14	0.21	0.05	0.16	0.14	0.29
Al_2O_3	13.33	13.49	13.59	11.46	13.13	13.43	13.04	14.16	13.41	13.99
Fe_2O_3	1.31	1.16	1.52	1.23	0.13	0.71	0.20	0.46	0.45	0.74
FeO	3.00	3.15	2.30	2.00	1.20	1.25	1.30	1.35	0.90	1.65
MnO	0.07	0.07	0.05	0.06	0.02	0.02	0.01	0.05	0.03	0.03
MgO	1.07	1.14	0.95	0.07	0.18	0.33	0.03	0.23	0.20	0.36
CaO	2.43	2.92	2.04	0.90	0.86	1.30	0.77	0.96	1.01	1.84
Na_2O	3.35	3.40	3.40	3.00	3.45	3.60	4.00	3.45	3.35	3.60
K_2O	3.93	3.24	4.26	4.40	4.96	4.43	4.38	5.47	5.08	4.59
P_2O_5	0.23	0.20	0.17	0.04	0.04	0.06	0.02	0.06	0.07	0.08
H_2O+	0.76	0.60	0.70	0.38	0.44	0.50	1.30	0.58	0.48	0.50
H_2O-										
CO_2										
Rest	0.25	0.26	0.23	0.18	0.14	0.15	0.11	0.18	0.15	0.14
TOTAL	100.11	99.91	99.26	100.23	100.39	99.69	100.81	99.11	100.37	99.21
Ba	696	749	726	249	458	321	341	595	528	451
Rb	188	176	166	240	185	166	234	256	239	144
Sr	256	229	177	47	76	92	67	118	104	126
Pb	27	43	13	21	16	63	23	32	25	18
Th	18	25	19	34	41	44	29	43	36	14
U	4	4	4	5	4	11	11	4	7	2
Zr	378	362	321	267	152	157	97	197	147	180
Nb	29	26	27	37	19	16	14	17	11	9
Y	69	67	63	127	19	19	13	25	36	30
La	62	79	70	119	48	46	10	75	47	41
Ce	134	162	135	238	93	88	23	137	89	106
Nd										
Sn				8	1	2	1	2	1	1
V	50	52	40	2	6	7	<1	7	6	15
Cr	27	26	21	4	<3	4	2	3	3	5
Ni	19	19	14	3	4	20	<2	3	2	4
Cu	18	19	11	<2	3	134	4	2	<2	<2
Zn	68	67	42	46	22	21	17	26	10	39
Ga	18	19	18	19	17	18	23	19	17	18

Archaean Granitic Intrusives

Sample Number	73281314
Area	SPCM
Locality	Mount Rymill
Rock type	Bi granite
Additional Data	
Age	Archaean
Bibliog. ref.	1,2,6
SiO_2	75.70
TiO_2	0.11
Al_2O_3	13.37
Fe_2O_3	0.35
FeO	1.15
MnO	0.03
MgO	0.24
CaO	0.51
Na_2O	4.20
K_2O	4.42
P_2O_5	0.02
H_2O+	0.22
H_2O-	
CO_2	
Rest	0.15
TOTAL	100.47
Ba	312
Rb	304
Sr	49
Pb	44
Th	50
U	11
Zr	141
Nb	36
Y	93
La	46
Ce	86
Nd	
Sn	10
V	2
Cr	3
Ni	3
Cu	<2
Zn	40
Ga	23

Late Archaean - Middle Proterozoic Mafic Rocks

Sample Number	73281034	73281046	73281222A	73281252	73281300E	73281310	73281475	73281914	73281921	73281904
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Mather	Mount Menzies	Mount Borland	Mount Menzies	Blake Ntks	Mount Rymill	Cumpston Massif	Mount Twigg	Mount Twigg	Mount Newton
Rock type	Amphib-olite	Amphib-olite	Amphib-olite	Amphib-olite	Amphib-olite	Amphib-olite	Bi Amphib-olite	Gt Amphib-olite	Amphib-olite	Hb-px-pl granulite
Additional Data										
Age	?Protero	?Protero	?Protero	?Protero	?Protero	?Protero	?Protero	?Protero	?Protero	?Archaean
Bibliog. ref.	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13
SiO_2	55.00	52.90	50.20	54.70	47.70	50.70	45.20	50.00	49.60	55.40
TiO_2	0.49	0.26	1.89	0.11	3.67	3.31	4.36	2.58	3.03	0.74
Al_2O_3	14.81	14.82	13.45	15.59	13.55	12.52	14.96	13.39	12.13	12.01
Fe_2O_3	2.17	1.82	2.88	0.98	2.37	3.20	2.02	4.30	2.62	1.59
FeO	7.30	6.15	10.60	5.75	12.30	13.10	12.20	11.10	13.40	9.55
MnO	0.11	0.16	0.22	0.15	0.19	0.29	0.20	0.22	0.23	0.21
MgO	5.47	8.84	6.42	7.46	6.45	4.59	5.53	5.07	5.48	6.07
CaO	9.88	12.06	10.29	11.32	9.74	9.43	7.86	9.43	9.70	11.45
Na_2O	2.30	1.65	2.45	1.90	2.35	1.15	2.95	1.05	2.05	1.20
K_2O	0.62	0.28	0.62	0.29	0.54	0.27	1.13	0.56	0.62	0.93
P_2O_5	0.08	0.07	0.18	0.03	0.44	0.57	1.11	0.25	0.29	0.16
H_2O+	3.60	2.70	0.92	1.40	0.56	1.10	2.75	0.80	0.74	0.72
H_2O-										
CO_2										
Rest	0.14	0.17	0.20	0.11	0.23	0.20	0.25	0.20	0.23	0.13
TOTAL	101.97	101.88	100.32	99.79	100.09	100.43	100.52	98.95	100.12	100.16
Ba	151	53	63	42	117	<3	475	23	77	176
Rb	21	5	16	8	13	1	59	9	14	39
Sr	181	132	221	126	484	111	363	99	226	57
Pb	5	5	2	2	6	7	14	3	3	8
Th	2	1	<1	1	2	10	2	2	2	3
U	<1	<1	1	<1	5	3	1	2	6	1
Zr	68	33	123	31	162	414	353	157	181	110
Nb	3	1	11	1	11	21	15	7	9	6
Y	17	10	28	18	26	86	53	38	37	26
La	6	3	12	7	9	35	32	13	10	21
Ce	19	8	30	19	21	81	80	35	35	51
Nd										
Sn										
V	182	164	321	115	365	292	125	416	438	227
Cr	112	510	177	205	166	85	123	94	115	60
Ni	115	177	96	164	102	59	52	62	77	70
Cu	25	34	228	2	51	13	20	279	189	8
Zn	91	60	120	55	137	161	168	150	152	97
Ga	14	12	18	14	20	20	22	22	24	15

Late Archaean - Middle Proterozoic Metasediments

Sample Number	72280774	73281042	73281118	73281206	73281274	73281689	72280713B	72280713F	72280750A	72280754
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Stinear	Mount Menzies	Seavers Ntk	Mount Bird	Keyser Ridge	Mount Stinear	Mount Menzies	Mount Menzies	Mount Stinear	Mount Stinear
Rock type	Gt-bi-st-ch pelite	Gt-bi-mus pelite	Gt-bi-ky-st pelite	Ctd-gt-si-ch pelite	Ctd-gt-bi-st pelite	Bi-ky-st-ch pelite	Ctd-ch-mus quartzite	Ky quartzite	Mus quartzite	Ky quartzite
Additional Data										
Age	Archaean	Archaean	Archaean	?Archaean	?Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Bibliog. ref.	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3
SiO_2	58.40	61.00	67.80	52.20	53.40	66.90	80.80	94.20	89.10	96.80
TiO_2	0.79	0.85	0.75	0.86	0.85	0.70	0.40	0.17	0.30	0.11
Al_2O_3	18.43	18.18	17.77	26.06	26.47	17.03	10.43	4.62	7.68	3.15
Fe_2O_3	5.19	2.85	1.62	2.36	5.77	1.78	0.60	<0.05	<0.05	<0.05
FeO	8.30	5.35	3.85	9.15	6.50	3.55	3.25	0.16	0.20	0.16
MnO	0.11	0.19	0.12	0.10	0.09	0.04	0.07	<0.01	<0.01	<0.01
MgO	3.87	2.39	2.44	1.45	1.18	4.60	0.84	<0.10	<0.10	<0.10
CaO	0.29	0.93	0.60	0.21	0.27	0.44	<0.01	<0.01	<0.01	<0.01
Na_2O	0.17	0.37	0.70	0.88	0.37	1.15	0.10	0.04	0.30	0.05
K_2O	2.70	4.45	2.46	2.80	2.18	2.43	1.04	0.10	1.92	0.15
P_2O_5	0.16	0.14	0.11	0.18	0.11	0.03	0.02	0.01	0.01	0.02
H_2O+	1.45	2.10	1.60	4.20	2.48	1.45	1.75	0.18	1.00	0.28
H_2O-										
CO_2										
Rest	0.27	0.26	0.26	0.21	0.19	0.32	0.15	0.07	0.10	0.04
TOTAL	100.13	99.06	100.08	100.66	99.86	100.42	99.44	99.38	100.44	100.59
Ba	369	615	347	420	428	399	138	34	205	33
Rb	114	156	105	190	134	96	41	5	52	10
Sr	22	50	153	104	57	92	36	9	59	12
Pb	3	28	7	15	10	2	24	17	9	2
Th	7	14	9	29	35	5	11	10	8	5
U	2	3	2	6	4	2	4	2	1	1
Zr	148	269	192	213	174	177	168	137	171	55
Nb	10	19	14	18	18	7	9	5	8	3
Y	33	48	44	39	25	18	20	9	14	6
La	38	20	58	18	<2	14	28	22	19	15
Ce	58	52	61	100	86	33	51	40	41	27
Nd										
Sn	2						2	1	1	<1
V	192	203	143	172	155	146	63	11	41	11
Cr	682	264	424	153	189	937	369	203	167	97
Ni	232	111	153	61	60	346	32	25	7	<2
Cu	7	40	101	3	4	29	4	10	<2	2
Zn	64	118	119	79	71	57	141	8	<2	3
Ga	21	26	23	31	35	18	13	6	10	4

Late Archaean - Middle Proterozoic Metasediments

Sample Number	72280756	73281257	73281309	73281312B	73281513	73281515	73281603	73281715	73281716	73281717
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Stinear	Mount Menzies	Mount Rymill	Mount Rymill	Mount Mather	Mount Mather	Mount Stinear	Mount Ruker	Mount Ruker	Mount Ruker
Rock type	Quartzite	Ky-ch quartzite	Quartzite	Quartzite	Ky-st-mus quartzite	Ky-st quartzite	Ky-mus quartzite	Banded ironstone	Banded ironstone	Banded ironstone
Additional Data										
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Protero	Protero	Protero
Bibliog. ref.	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2	1,2	1,2
SiO_2	98.30	98.00	99.50	96.80	92.20	97.30	94.90	53.20	61.40	29.80
TiO_2	0.02	0.04	0.01	0.06	0.24	0.11	0.05	0.01	0.01	<0.01
Al_2O_3	0.86	0.99	0.14	2.60	6.58	3.00	3.68	0.91	0.30	0.28
Fe_2O_3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	42.90	36.10	65.60
FeO	0.05	0.36	0.11	0.06	0.04	0.02	0.03			
MnO	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.22	0.09
MgO	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.52	0.91	2.08
CaO	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.44	0.88	0.26
Na_2O	0.09	0.10	0.03	0.13	0.05	0.07	0.22			
K_2O	0.14	<0.01	<0.01	0.64	<0.01	<0.01	0.57	0.27	0.31	0.36
P_2O_5	<0.01	0.02	0.01	0.01	0.03	0.01	0.01	0.16	0.24	<0.01
H_2O+	0.14	0.34	0.14	0.54	0.24	0.14	0.46			
H_2O-										
CO_2										
Rest	0.03	0.03	0.01	0.07	0.09	0.04	0.03			
TOTAL	99.45	99.92	99.77	100.74	99.29	100.51	99.78	100.47	100.37	98.45
Ba	20	21	19	86	14	13	41			
Rb	7	3	1	30	1	1	35			
Sr	9	9	1	14	4	2	17			
Pb	1	1	1	4	1	<1	1	<1	<1	<1
Th	<1	3	1	<1	11	2	1			
U	<1	1	<1	1	3	<1	<1			
Zr	57	54	16	111	337	144	72			
Nb	<1	1	1	2	7	2	1			
Y	4	5	1	4	13	6	6			
La	5	6	<2	<2	23	4	13			
Ce	12	19	6	14	45	13	28			
Nd										
Sn	<1									
V	1	2	<1	5	12	8	1			
Cr	88	83	20	220	155	109	11			
Ni	2	3	5	3	1	<2	<2			
Cu	<2	7	2	4	7	6	5	3	13	4
Zn	11	3	<2	<2	4	<2	<2	7	10	11
Ga	1	1	1	3	8	4	4			

Late Archaean - Middle Proterozoic Metasediments

Sample Number	73281718	73281719	73281999
Area	SPCM	SPCM	SPCM
Locality	Mount Ruker	Mount Ruker	Mount Ruker
Rock type	Banded ironstone	Banded ironstone	Banded ironstone
Additional Data			
Age	Protero	Protero	Protero
Bibliog. ref.	1,2	1,2	1,2
SiO_2	52.70	44.30	32.60
TiO_2	<0.01	0.06	0.08
Al_2O_3	0.45	1.25	2.12
Fe_2O_3	43.50	52.00	60.10
FeO			
MnO	0.15	0.20	0.09
MgO	1.15	2.28	1.49
CaO	0.24	2.15	0.10
Na_2O			
K_2O	0.13	0.77	0.78
P_2O_5	0.04	0.18	0.05
H_2O+			
H_2O-			
CO_2			
Rest			0.03
TOTAL	98.35	103.19	97.44
Ba			
Rb			
Sr			
Pb	<1	<1	10
Th			
U			
Zr			
Nb			
Y			
La			
Ce			
Nd			
Sn			
V			
Cr			
Ni			
Cu	6	5	239
Zn	25	9	22
Ga			

Late Proterozoic Felsic Gneisses

Sample Number	73281022	73281137	73281324	73281333	73281376	73281557	73281584	73281071	73281752	73281787
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	NPCM	NPCM
Locality	Clemence Massif	Shaw Massif	Clemence Massif	Dalton Hills	Mount Johns	Mawson Esc. K	Barkell Platform	Mount Izabelle	Mount Gardner	Mount Wishart
Rock type	Bi-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss	Bi-qz-kf-pl gneiss	Bi-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss	Bi-qz-kf-pl gneiss	Bi-qz-pl-kf gneiss	Hb-op-qz-pl gneiss	Op-qz-pl-kf gneiss	Op-qz-pl gneiss
Additional Data	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Bi gneiss	Op gneiss	Op gneiss	Op gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	70.30	71.30	69.10	71.10	73.20	68.50	70.70	65.40	72.80	70.30
TiO_2	0.50	0.40	0.42	0.37	0.38	0.57	0.37	0.61	0.20	0.23
Al_2O_3	14.64	13.78	15.24	14.74	13.29	14.70	15.26	15.72	14.28	13.57
Fe_2O_3	1.19	0.50	1.22	0.65	1.05	0.87	0.39	1.44	0.68	0.40
FeO	1.80	2.15	1.80	2.05	1.15	3.40	1.50	3.75	0.95	4.65
MnO	0.05	0.05	0.07	0.06	0.04	0.04	0.01	0.10	0.03	0.09
MgO	0.78	0.56	1.25	0.54	0.54	1.10	0.66	1.55	0.61	1.30
CaO	2.18	1.78	3.63	1.77	1.40	2.71	2.40	4.45	2.09	3.76
Na_2O	3.80	3.00	3.90	3.60	3.00	3.40	3.60	3.00	3.40	3.65
K_2O	3.76	4.44	2.00	4.50	5.17	3.49	4.06	2.98	4.30	1.11
P_2O_5	0.19	0.11	0.12	0.12	0.12	0.21	0.10	0.11	0.10	0.06
H_2O+	0.36	0.58	0.76	0.64	0.20	0.58	0.36	0.36	0.36	0.26
H_2O-										
CO_2										
Rest	0.30	0.22	0.20	0.23	0.23	0.19	0.28	0.23	0.23	0.10
TOTAL	99.85	98.87	99.71	100.37	99.77	99.76	99.69	99.70	100.03	99.48
Ba	1341	820	690	840	906	642	1394	959	1329	269
Rb	203	190	53	249	166	141	104	96	113	11
Sr	355	210	473	194	211	193	283	334	250	131
Pb	37	29	14	39	35	20	25	18	35	14
Th	27	45	6	24	24	38	64	6	24	3
U	5	3	<1	7	2	2	3	1	1	1
Zr	244	240	135	242	240	253	255	171	120	85
Nb	17	10	4	17	12	14	3	6	1	3
Y	27	26	12	34	22	14	3	26	4	15
La	74	14	22	45	73	49	63	22	27	23
Ce	113	148	44	82	131	91	103	49	45	40
Nd										
Sn										
V	31	23	48	21	17	32	18	62	19	63
Cr	12	9	9	7	7	18	5	45	9	26
Ni	5	3	5	2	3	9	3	8	4	4
Cu	7	5	19	9	4	11	2	<2	5	7
Zn	54	62	114	72	46	54	29	91	17	51
Ga	20	18	16	22	18	17	19	17	13	16

Late Proterozoic Felsic Gneisses

Sample Number	73281790	73281792	73281802	72280953A	73281995	73282019	73282022	73281805	73282000B	73282004
Area	NPCM	NPCM	NPCM	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Mount Wishart	Mount Wishart	Mount Willing	Scullin Monolith	Mount Twintop	Murray Monolith	Scullin Monolith	Patterson Island	Murray Monolith	Murray Monolith
Rock type	Op-qz-pl-kf gneiss	Op-qz-kf-pl gneiss	Op-qz-pl gneiss	Op-qz-pl-kf gneiss	Op-qz-pl gneiss	Op-qz-kf-pl gneiss	Op-qz-kf-pl gneiss	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss	Op-qz-pl-kf gneiss
Additional Data	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss	Op gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,6	1,2,6	1,2,6	6	6	6	6	6	6	6
SiO_2	73.90	69.70	69.00	73.10	73.90	66.70	64.30	64.50	67.70	67.70
TiO_2	0.32	0.39	0.50	0.48	0.68	0.88	1.59	1.01	0.69	0.70
Al_2O_3	11.81	13.01	15.53	12.71	12.34	15.02	14.57	14.96	14.59	14.75
Fe_2O_3	0.80	0.58	1.77	0.85	1.55	1.09	1.77	1.40	1.18	1.80
FeO	2.60	4.90	1.80	2.15	1.50	4.45	6.35	5.25	3.65	2.45
MnO	0.20	0.49	0.09	0.04	0.05	0.10	0.10	0.09	0.11	0.08
MgO	1.26	1.92	1.01	0.40	2.00	2.20	1.77	2.90	1.89	1.76
CaO	1.61	3.85	4.50	1.35	1.80	4.81	4.38	3.94	2.96	2.80
Na_2O	2.20	3.10	4.05	2.35	4.05	2.45	3.30	1.50	2.20	2.15
K_2O	4.77	1.13	0.58	5.93	1.65	2.77	2.02	3.82	4.29	4.82
P_2O_5	0.06	0.14	0.10	0.08	0.09	0.19	0.35	0.24	0.23	0.23
H_2O+	0.44	0.46	0.36	0.38	0.18	0.26	0.30	0.34	0.20	0.34
H_2O-										
CO_2										
Rest	0.27	0.16	0.19	0.25	0.13	0.15	0.21	0.36	0.26	0.27
TOTAL	100.24	99.83	99.48	100.07	99.92	101.07	101.01	100.31	99.95	99.85
Ba	1603	548	723	377	274	350	341	1399	913	1040
Rb	198	36	8	438	21	202	188	149	247	270
Sr	137	184	517	61	113	105	83	249	218	235
Pb	41	23	12	57	12	17	27	32	49	53
Th	19	3	2	154	31	3	38	47	36	29
U	1	1	<1	8	2	<1	2	1	2	2
Zr	47	85	154	454	295	130	310	371	244	221
Nb	4	5	3	8	11	7	28	15	15	12
Y	13	19	7	32	33	24	62	34	30	20
La	29	20	24	162	55	15	89	84	46	39
Ce	51	44	41	267	100	34	171	161	93	80
Nd										
Sn										
V	24	52	26	8	34	80	106	105	60	68
Cr	66	90	5	3	16	74	19	137	101	101
Ni	20	39	4	3	11	19	10	38	24	22
Cu	11	32	6	<2	5	15	16	23	18	13
Zn	56	74	45	35	16	63	113	82	64	57
Ga	12	13	16	19	13	23	29	19	19	19

Late Proterozoic Felsic Gneisses

Sample Number	72280971	73281020	73281086	73281112	73281142	73281145	73281146	73281328	73281331	73281334
Area	Mawson Coast	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mawson Rock	Clemence Massif	Mount Johns	Mount Cresswell	Shaw Massif	Shaw Massif	Shaw Massif	Clemence Massif	Clemence Massif	Dalton Hills
Rock type	Op-qz-pl-kf gneiss	Bi-gt-qz-pl gneiss	Bi-gt-qz-pl gneiss	Bi-gt-qz-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-pl-kf gneiss	Gt-qz-kf-pl gneiss	Gt-qz-pl-kf gneiss	Gt-qz-pl-kf gneiss	Bi-qz-pl-kf gneiss
Additional Data	Op gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	66.60	67.00	71.50	76.90	69.40	74.50	74.50	71.10	67.10	75.40
TiO_2	0.66	0.75	0.53	0.42	0.46	0.23	0.57	0.23	1.07	0.14
Al_2O_3	14.65	15.50	13.84	11.08	14.92	13.52	12.96	13.09	14.33	13.40
Fe_2O_3	0.95	1.41	1.26	0.69	0.52	0.18	1.07	0.92	1.08	0.32
FeO	4.70	4.95	3.05	3.05	2.60	1.60	3.05	5.00	4.80	0.80
MnO	0.08	0.19	0.17	0.05	0.06	0.02	0.05	0.09	0.09	0.02
MgO	2.69	1.29	1.04	0.98	1.20	0.26	1.18	0.73	0.98	0.21
CaO	2.71	3.83	2.55	2.61	2.51	0.96	1.18	0.52	2.86	1.14
Na_2O	2.55	2.65	3.25	2.40	3.65	2.95	1.70	1.55	2.70	3.10
K_2O	4.69	1.71	2.51	0.91	2.92	5.52	1.83	5.49	3.74	5.23
P_2O_5	0.06	0.20	0.11	0.10	0.11	0.14	0.04	0.06	0.44	0.04
H_2O+	0.36	0.44	0.66	0.52	0.64	0.44	1.15	0.54	0.80	0.46
H_2O-										
CO_2										
Rest	0.26	0.18	0.25	0.12	0.19	0.18	0.19	0.44	0.34	0.18
TOTAL	100.96	100.10	100.72	99.83	99.18	100.50	99.47	99.76	100.33	100.44
Ba	445	394	1142	207	713	520	528	2374	1397	721
Rb	330	120	80	45	119	334	99	167	163	243
Sr	81	206	260	180	244	137	173	138	302	143
Pb	44	22	22	19	24	47	21	49	22	52
Th	113	9	19	11	17	54	17	32	37	28
U	6	3	2	3	2	7	3	2	3	22
Zr	387	324	256	137	179	127	194	568	388	133
Nb	11	14	7	7	12	16	8	3	20	8
Y	29	68	27	15	20	38	25	80	55	16
La	166	23	31	16	26	37	26	88	92	32
Ce	264	52	75	34	54	82	52	157	183	73
Nd										
Sn										
V	57	31	37	60	43	8	82	17	46	6
Cr	64	10	13	100	41	7	116	3	15	2
Ni	28	9	9	25	16	2	39	4	4	<2
Cu	<2	31	13	9	<2	<2	18	3	4	2
Zn	84	104	68	34	62	59	72	36	108	33
Ga	24	21	18	14	18	20	15	11	20	18

Late Proterozoic Felsic Gneisses

Sample Number	73281365	73281372	73281675	73282137	73282138	73281768	73281769	73281881	73281887	73281889
Area	SPCM	SPCM	SPCM	SPCM	SPCM	NPCM	NPCM	NPCM	NPCM	NPCM
Locality	Mawson Esc. K	Mount Johns	Mawson Esc. M	Mawson Esc. G	Mawson Esc. G	Mt Becher-vaise	Mount Stalker	Corry Massif	Carter Peak	Mt Becher-vaise
Rock type	Gt-qz-pl-kf gneiss	Gt-bi-qz-kf gneiss	Gt-qz-kf-pl gneiss	Bi-gt-qz-pl gneiss	Gt-bi-qz-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-pl gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6
SiO_2	66.20	61.90	60.80	63.40	65.10	77.10	63.30	75.20	74.90	68.50
TiO_2	0.82	0.93	0.75	1.01	0.85	0.73	0.78	0.02	0.88	1.22
Al_2O_3	15.01	16.69	15.78	15.06	14.63	10.20	17.23	14.87	11.04	12.95
Fe_2O_3	0.93	0.96	5.41	1.30	1.12	0.90	1.43	<0.05	1.70	3.12
FeO	4.00	4.95	8.35	6.75	6.15	3.75	3.75	0.20	5.15	5.05
MnO	0.04	0.03	0.16	0.09	0.07	0.12	0.08	0.02	0.11	0.10
MgO	2.22	1.89	2.90	1.82	1.46	1.39	2.60	0.07	2.40	2.73
CaO	0.92	0.14	2.69	3.47	3.08	1.53	3.79	2.18	1.51	1.52
Na_2O	1.90	2.10	1.95	2.75	3.20	1.70	2.80	4.15	1.45	1.80
K_2O	6.92	9.58	0.70	2.26	2.51	1.54	3.40	2.13	0.71	1.94
P_2O_5	0.22	0.04	0.10	0.35	0.30	0.11	0.25	0.04	0.08	0.10
H_2O+	0.70	0.82	0.48	0.86	0.72	0.28	0.26	0.60	0.20	0.64
H_2O-										
CO_2										
Rest	0.33	0.22	0.17	0.29	0.22	0.20	0.25	0.05	0.18	0.23
TOTAL	100.21	100.25	100.24	99.41	99.41	99.55	99.92	99.48	100.31	99.90
Ba	1470	558	58	1140	766	569	936	187	376	422
Rb	167	356	54	118	118	92	191	47	26	155
Sr	258	38	230	295	247	144	270	104	165	106
Pb	55	42	9	19	19	23	26	48	1	16
Th	60	18	14	12	15	29	<1	<1	15	18
U	4	27	3	2	2	3	<1	<1	2	3
Zr	307	234	191	263	239	273	111	12	210	231
Nb	22	14	17	16	17	10	11	<1	6	16
Y	61	16	68	27	22	34	15	5	28	29
La	74	30	46	56	59	39	18	15	28	29
Ce	142	61	88	103	105	74	37	27	54	61
Nd										
Sn										
V	50	92	135	77	56	79	104	<1	134	233
Cr	27	141	143	66	47	117	91	<3	178	172
Ni	22	40	71	34	20	41	46	<2	39	90
Cu	<2	<2	44	22	20	6	41	7	15	11
Zn	76	78	105	97	78	59	100	3	79	140
Ga	22	22	17	19	18	12	25	16	12	22

Late Proterozoic Felsic Gneisses

Sample Number	73281888	73281895	73282033	73282037	73282039	73282040	73282049	73282094	73282190	73282199
Area	NPCM	NPCM	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Carter Peak	Mount Stalker	Scullin Monolith	Campbell Head	Campbell Head	Campbell Head	Taylor Rookery	Mount Rivett	Forbes Glacier	Ntk W of Mt Coates
Rock type	Bi-gt-pl-kf-qz gn	Bi-gt-kf qz-pl gn	Gt-qz-pl-kf gneiss	Gt-qz-kf gneiss	Gt-qz-pl gneiss	Gt-qz-pl gneiss	Gt-qz-kf-pl gneiss	Op-gt-qz-pl gneiss	Gt-qz-pl gneiss	Gt-qz-pl-kf gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2	1,2	6	6	6	6	6	6	6	6
SiO_2	70.10	67.60	73.70	73.80	64.90	67.20	67.20	70.70	79.40	75.50
TiO_2	0.93	0.81	0.03	0.06	0.82	0.99	0.78	1.06	0.58	0.23
Al_2O_3	12.94	14.90	13.95	13.30	16.60	13.39	16.10	11.32	9.32	12.42
Fe_2O_3	0.31	0.30	0.05	0.45	1.14	2.93	1.21	1.91	1.81	0.30
FeO	6.21	5.15	0.50	1.60	4.20	5.50	3.80	5.65	2.60	1.65
MnO	0.10	0.10	0.04	0.05	0.09	0.19	0.07	0.22	0.30	0.04
MgO	2.62	2.23	0.13	0.41	2.54	3.08	1.62	3.78	1.41	0.46
CaO	1.60	3.28	0.81	0.86	4.82	2.36	3.67	2.90	2.95	0.70
Na_2O	1.71	2.41	2.10	1.60	2.20	1.95	3.30	0.75	0.65	1.85
K_2O	2.31	1.71	7.75	6.41	1.59	1.57	1.53	0.42	0.62	5.85
P_2O_5	0.07	0.10	0.06	0.05	0.16	0.10	0.06	0.12	0.14	0.06
H_2O+	0.68	1.46	0.04	0.48	0.68	0.44	0.58	0.38	0.36	0.28
H_2O-										
CO_2	0.22	<0.05								
Rest	0.27	0.20	0.10	0.24	0.23	0.17	0.20	0.15	0.18	0.12
TOTAL	100.07	100.20	99.26	99.31	99.97	99.87	100.12	99.36	100.32	99.46
Ba	968	472	192	1323	725	277	294	154	672	358
Rb	86	91	405	216	128	110	86	56	38	263
Sr	243	211	43	234	393	71	377	59	192	49
Pb	18	14	79	69	20	14	31	4	10	26
Th	16	7	23	19	15	14	44	9	14	27
U	1	1	3	2	3	2	2	2	2	1
Zr	200	266	29	112	142	168	192	193	220	121
Nb	9	11	<1	<1	10	11	12	8	8	8
Y	31	39	40	16	17	30	25	23	29	39
La	36	36	19	25	27	22	60	18	25	33
Ce	66	65	34	48	56	49	119	39	55	66
Nd	27	25								
Sn										
V	150	103	<1	8	132	180	97	164	59	9
Cr	173	109	<3	10	39	147	30	164	76	4
Ni	34	36	<2	7	29	63	16	82	14	2
Cu	5	13	2	7	13	<2	89	56	15	11
Zn	66	65	<2	14	88	103	90	90	50	22
Ga	15	19	15	10	23	19	22	12	10	18

49

Late Proterozoic Felsic Gneisses

Sample Number	72280919	72280922	72280923	72280945A	72280945B	72280957	72280967	73281957	73281961	73281964
Area	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Cape Bruce	Scullin Monolith	Cape Bruce	Forbes Glacier	Forbes Glacier	Scullin Monolith	Mawson Rock	Mount Henderson	Mount Henderson	Painted Peak
Rock type	Gt-qz-kf-pl gneiss	Gt-qz-pl-kf gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf-pl gneiss	Gt-qz-kf gneiss	Qz-op-gt-pl gneiss	Gt-qz-pl-kf gneiss	Gt-qz-kf-pl gneiss	Op-gt-qz-pl gneiss
Additional Data	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss	Gt gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	6	6	6	6	6	6		6	6	6
SiO_2	63.00	76.40	80.30	67.40	67.70	71.00	47.70	66.10	71.70	67.70
TiO_2	1.36	0.25	0.03	0.83	0.82	0.58	1.20	0.58	0.90	0.75
Al_2O_3	16.91	12.13	11.20	15.97	15.91	12.65	18.27	15.80	13.39	12.73
Fe_2O_3	0.99	0.44	0.07	1.80	4.09	1.94	4.28	1.57	1.02	2.51
FeO	4.25	1.30	0.95	2.50	0.50	2.50	11.20	3.05	3.55	4.50
MnO	0.04	0.02	0.03	0.06	0.05	0.05	0.21	0.08	0.15	0.64
MgO	2.04	0.34	0.21	1.66	1.70	0.74	9.87	1.43	1.28	4.53
CaO	3.93	1.06	2.41	3.57	3.57	1.15	2.46	0.77	4.04	3.99
Na_2O	3.05	2.10	3.05	3.75	2.70	1.90	1.55	1.45	1.95	0.52
K_2O	2.83	5.52	0.83	1.88	1.92	6.75	2.03	8.50	1.18	1.89
P_2O_5	0.50	0.07	0.05	0.14	0.12	0.63	0.03	0.06	0.12	0.58
H_2O+	0.60	0.38	0.30	0.58	0.34	0.18	0.34	0.30	0.42	0.48
H_2O-										
CO_2										
Rest	0.50	0.12	0.15	0.21	0.24	0.21	0.28	0.31	0.19	0.20
TOTAL	100.00	100.13	99.58	100.35	99.66	100.28	99.42	100.00	99.89	101.02
Ba	1649	306	96	412	1443	258	733	1516	329	660
Rb	155	308	14	118	215	717	154	341	51	75
Sr	877	56	216	244	295	31	77	227	160	168
Pb	31	55	23	23	41	46	13	54	11	9
Th	65	22	25	52	<1	40	2	5	4	3
U	3	2	2	4	<1	7	<1	<1	2	<1
Zr	505	131	582	272	50	246	138	123	496	165
Nb	20	6	<1	14	<1	23	11	8	15	9
Y	17	24	11	17	8	107	16	34	54	35
La	153	26	51	90	9	37	66	40	39	37
Ce	270	52	98	165	16	88	106	56	70	88
Nd										
Sn										
V	113	11	4	100	4	21	195	76	93	84
Cr	62	6	9	37	<3	11	226	57	33	88
Ni	21	5	6	25	2	8	139	23	19	77
Cu	65	<2	5	44	7	11	<2	7	15	4
Zn	120	33	8	63	3	107	264	41	37	111
Ga	25	16	12	21	13	19	34	21	18	17

Late Proterozoic Mafic Rocks

Sample Number	73281105	73281110	73281264	73281303	73281501	73281685	73281867	73282147	73281564
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Cresswell	Mount Cresswell	Mount McCauley	Shaw Massif	Mount McCauley	Mount Johns	Mawson Esc.L	Mawson Esc.I	Mawson Esc.K
Rock type	Amphib-olite	Gt Amphib-olite	Amphib-olite	Cp Amphib-olite	Gt Amphib-olite	Amphib-olite	Cp Amphib-olite	Amphib-olite	Hb-op-pl granulite
Additional Data									
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13
SiO_2	51.60	50.30	48.50	47.80	51.10	50.50	50.70	50.30	45.20
TiO_2	1.62	0.98	1.81	0.23	3.26	1.26	0.93	1.85	2.67
Al_2O_3	13.08	14.49	13.68	15.49	12.63	17.25	13.57	14.52	13.80
Fe_2O_3	2.50	1.40	3.01	2.21	2.18	2.88	3.55	1.80	2.67
FeO	9.00	10.40	12.10	6.95	12.50	8.20	10.60	13.10	13.90
MnO	0.18	0.20	0.22	0.18	0.23	0.23	0.24	0.22	0.25
MgO	7.28	7.53	5.45	10.44	5.38	4.68	6.92	5.13	7.65
CaO	10.28	11.44	9.48	14.72	8.86	8.80	10.35	8.04	10.27
Na_2O	2.25	0.92	2.40	0.96	1.35	4.30	2.30	3.85	2.30
K_2O	0.62	0.30	1.51	0.35	0.21	1.35	0.57	0.56	0.80
P_2O_5	0.16	0.10	0.21	0.03	0.69	0.29	0.09	0.14	0.21
H_2O+	1.40	1.10	1.05	0.92	0.90	0.76	0.66	0.92	0.56
H_2O-									
CO_2									
Rest	0.20	0.16	0.21	0.09	0.18	0.19	0.15	0.17	0.23
TOTAL	100.17	99.32	99.63	100.37	99.47	100.69	100.63	100.60	100.51
Ba	121	9	198	40	<3	280	30	81	51
Rb	19	3	69	4	2	29	7	3	5
Sr	251	151	114	105	116	514	61	121	144
Pb	3	4	9	5	5	22	1	5	4
Th	1	1	<1	<1	4	2	1	<1	<1
U	2	1	1	<1	2	3	3	<1	<1
Zr	106	56	70	4	327	90	55	132	126
Nb	6	2	5	<1	16	4	3	8	14
Y	23	21	32	6	59	26	22	49	41
La	9	<2	4	<2	<2	17	7	11	10
Ce	20	11	15	5	22	34	18	36	36
Nd									
Sn									
V	354	291	322	204	334	232	264	268	452
Cr	255	318	147	79	137	46	233	178	177
Ni	127	122	78	81	48	18	114	106	113
Cu	21	6	283	<2	12	31	96	28	270
Zn	93	98	143	82	145	127	81	138	160
Ga	18	17	18	12	22	21	18	20	26

Late Proterozoic Mafic Rocks

Sample Number	73281570	73281580	73281661	73281662	73281667	73281671	73281682	73281861	73282141	73281755
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	NPCM
Locality	Mawson Esc.K	Mawson Esc.K	Mawson Esc.M	Mawson Esc.M	Mawson Esc.M	Mawson Esc.M	Mawson Esc.M	Mawson Esc.M	Mawson Esc.G	Mount Gardner
Rock type	Hb-px-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Hb-op-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Hb-op-pl granulite	Cp-op-pl granulite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13
SiO_2	50.20	46.80	46.70	47.30	47.20	48.10	52.10	57.80	51.20	63.70
TiO_2	1.56	2.00	1.55	1.59	2.09	3.09	0.72	0.49	1.66	0.40
Al_2O_3	14.65	13.47	13.48	13.74	14.35	12.88	14.24	11.61	16.62	11.15
Fe_2O_3	1.31	1.29	3.94	4.29	3.02	2.76	1.33	1.76	2.79	1.93
FeO	12.40	12.70	10.50	10.40	12.40	18.10	8.95	8.15	10.50	6.50
MnO	0.22	0.22	0.24	0.24	0.23	0.29	0.19	0.40	0.16	0.19
MgO	6.72	7.62	7.05	6.78	7.13	5.69	7.23	9.19	3.71	7.23
CaO	9.80	12.02	11.55	11.28	9.39	6.35	9.91	8.59	5.94	5.56
Na_2O	2.45	0.70	2.80	2.85	2.55	2.30	3.20	0.80	3.05	2.70
K_2O	0.42	0.41	1.13	1.10	0.68	0.26	0.61	1.08	1.88	0.40
P_2O_5	0.15	0.20	0.17	0.16	0.19	0.19	0.09	0.11	0.40	0.13
H_2O+	0.48	1.05	0.94	0.68	0.58	0.58	0.68	0.50	1.20	0.42
H_2O-										
CO_2										
Rest	0.17	0.19	0.17	0.16	0.20	0.13	0.16	0.42	0.21	0.19
TOTAL	100.53	98.67	100.22	100.57	100.01	100.72	99.41	100.90	99.32	100.50
Ba	57	59	92	66	37	50	69	69	174	199
Rb	8	27	8	6	3	1	9	77	92	4
Sr	127	245	157	149	152	241	82	34	237	261
Pb	9	3	6	8	5	2	9	5	17	6
Th	<1	1	<1	<1	<1	3	1	2	1	<1
U	<1	<1	<1	1	<1	1	2	1	2	<1
Zr	46	107	82	80	104	152	74	48	249	39
Nb	8	5	4	4	8	6	4	3	18	1
Y	24	33	31	31	32	23	25	16	18	11
La	8	5	3	3	5	2	8	4	31	7
Ce	24	27	16	17	27	8	23	13	64	15
Nd										
Sn										
V	353	381	384	374	368	162	263	214	205	165
Cr	108	172	102	95	230	13	234	1146	132	506
Ni	78	130	84	82	125	6	134	375	63	98
Cu	189	<2	76	73	134	<2	47	<2	79	31
Zn	129	134	123	113	137	263	109	1092	209	76
Ga	22	21	18	18	24	26	16	18	24	11

Late Proterozoic Mafic Rocks

Sample Number	73281763	73281786	73281801	73281875	73281882	73281996	73282016	73282025	73282044	73282074
Area	NPCM	NPCM	NPCM	NPCM	NPCM	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Crohn Massif	Mount Wishart	Mount Willing	Mount Gardner	Corry Massif	Mount Twintop	Murray Monolith	Scullin Monolith	Campbell Head	Neil Peak
Rock type	Hb-px-pl granulite	Hb-px-pl granulite	Op-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Hb-px-pl granulite	Cp-op-pl granulite	Hb-op-pl granulite	Cp-op-pl granulite	Cp-op-pl granulite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,13	1,2,13	1,2,13	1,2,13	1,2,13	13	13	13	13	13
SiO_2	51.60	50.00	45.30	47.80	47.20	47.30	51.50	48.30	45.30	53.20
TiO_2	0.26	0.59	2.85	0.55	2.31	0.99	1.22	1.26	2.83	1.29
Al_2O_3	8.77	15.34	16.22	16.27	13.27	14.49	15.95	17.38	14.03	13.13
Fe_2O_3	3.16	1.14	6.72	5.59	2.97	5.44	2.17	1.95	1.12	0.75
FeO	10.50	8.40	11.70	6.40	13.20	8.25	8.65	7.80	16.70	8.90
MnO	0.29	0.19	0.34	0.20	0.27	0.23	0.18	0.15	0.25	0.19
MgO	12.72	8.84	3.48	8.40	7.51	8.55	7.57	9.88	7.29	9.34
CaO	9.11	11.07	7.72	11.13	10.26	10.37	8.95	9.45	11.88	9.62
Na_2O	1.70	2.40	3.25	2.25	1.85	2.40	2.35	1.95	0.67	0.29
K_2O	0.34	1.86	0.41	0.27	0.10	0.64	1.09	0.66		1.73
P_2O_5	0.15	0.18	1.35	0.17	0.24	0.09	0.13	0.20	0.05	0.40
H_2O+	0.52	0.42	0.34	0.22	0.30	0.28	0.30	0.54	0.30	0.56
H_2O-										
CO_2										
Rest	0.28	0.30	0.16	0.17	0.20	0.17	0.18	0.16	0.24	0.59
TOTAL	99.40	100.73	99.84	99.42	99.68	99.20	100.24	99.68	100.66	99.99
Ba	143	1190	288	311	20	40	268	175	<3	2500
Rb	2	58	4	4	1	6	64	44	<1	264
Sr	167	237	566	338	233	64	176	241	116	266
Pb	6	19	5	9	1	4	11	6	3	9
Th	<1	4	2	1	<1	1	8	9	<1	60
U	<1	2	<1	<1	<1	<1	2	2	<1	8
Zr	25	21	33	17	122	50	86	131	34	314
Nb	2	2	7	1	9	1	4	5	3	16
Y	8	13	39	17	29	22	28	30	17	28
La	15	4	27	6	7	3	17	13	<2	60
Ce	36	17	69	20	25	12	35	39	11	128
Nd										
Sn										
V	246	263	59	286	437	291	168	152	1012	283
Cr	968	357	15	33	129	365	202	63	14	608
Ni	182	79	5	68	140	207	112	179	63	87
Cu	49	<2	25	50	100	<2	43	53	56	50
Zn	113	71	160	86	139	106	99	75	124	120
Ga	11	15	21	14	19	16	21	19	22	18

Late Proterozoic Mafic Rocks

Sample Number	73282204	72280955	73282160	73282165
Area	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Ntk W of Mt. Coates	Forbes Glacier	Mawson Rock	Mawson Rock
Rock type	Hb-px-pl granulite	Hb-px-pl granulite	Mafic xenolith	Mafic xenolith
Additional Data				
Age	Protero	Protero	Protero	Protero
Bibliog. ref.	13	13	10	10
SiO_2	47.10	48.50	45.80	51.70
TiO_2	1.58	3.10	1.40	1.26
Al_2O_3	14.34	13.95	15.85	15.51
Fe_2O_3	1.27	1.10	2.02	1.84
FeO	9.80	13.40	13.50	12.70
MnO	0.21	0.23	0.28	0.27
MgO	10.53	5.29	9.36	7.57
CaO	9.98	8.78	9.51	6.62
Na_2O	1.80	3.20	1.00	1.70
K_2O	1.97	1.37	0.48	0.67
P_2O_5	0.56	0.36	0.13	0.11
H_2O+	0.48	0.30	0.32	0.36
H_2O-				
CO_2				
Rest	0.50	0.23	0.26	0.21
TOTAL	100.12	99.81	99.91	100.52
Ba	1839	462	477	249
Rb	176	85	53	13
Sr	263	182	98	85
Pb	3	13	4	8
Th	8	8	2	2
U	1	2	2	1
Zr	319	254	100	110
Nb	15	11	3	6
Y	37	63	35	35
La	44	30	16	29
Ce	111	66	38	59
Nd				
Sn				
V	309	266	364	309
Cr	565	131	376	356
Ni	97	51	155	57
Cu	77	49	18	26
Zn	120	61	154	132
Ga	20	25	22	21

Late Proterozoic Metasediments

Sample Number	73281347	73281511	73281652	73281742	73281776	73281892	73281767	73281773	73281778	73281781
Area	SPCM	SPCM	SPCM	SPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM
Locality	Mount McCauley	Mount McCauley	Mawson Esc. F	Blake Ntks	Moore Pyramid	Mt. Becher-vaise	Mt Becher-vaise	Bond Ridge	Moore Pyramid	Moore Pyramid
Rock type	Bi-si-cd-st pelite	Bi-si-mus pelite	Gt-bi-si-cd pelite	Gt-bi-ky-st pelite	Gt-bi-si-cd pelite	Gt-bi-si-cd pelite	Gt-si-bi-cd pelite	Gt-bi-cd pelite	Gt-bi-cd pelite	Gt-bi-cd pelite
Additional Data										
Age	Protero	Protero	Protero	?Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2	1,2	1,2	1,2
SiO_2	59.10	45.40	49.90	50.60	69.40	68.70		67.80	59.30	65.40
TiO_2	0.98	1.06	0.89	1.30	0.98	0.89		0.75	1.32	1.44
Al_2O_3	24.91	27.09	23.21	19.53	13.73	14.65		14.38	16.55	14.11
Fe_2O_3	0.92	1.49	2.21	7.97	2.42	1.65		0.66	0.73	0.72
FeO	4.40	7.00	9.20	10.80	4.60	4.25		4.84	9.64	8.19
MnO	0.06	0.12	0.15	0.14	0.15	0.07		0.09	0.15	0.12
MgO	3.82	5.54	2.67	2.88	2.95	1.74		1.80	3.14	2.76
CaO	0.30	0.21	0.72	2.45	1.03	0.68		1.53	1.65	1.90
Na_2O	0.80	1.00	2.15	0.14	1.05	1.65		2.37	1.80	1.66
K_2O	2.24	7.81	6.60	2.14	3.06	4.19		3.55	3.87	2.24
P_2O_5	0.11	0.06	0.06	0.03	0.10	0.10		0.09	0.12	0.07
H_2O+	1.70	3.10	1.15	1.05	0.36	0.78	0.89	1.58	1.17	0.97
H_2O-										
CO_2							0.07	0.18	<0.05	0.11
Rest	0.30	0.48	0.33	0.26	0.25	0.25	0.37	0.26	0.36	0.29
TOTAL	99.64	100.36	99.24	99.29	100.08	99.60	1.33	99.88	99.75	99.98
Ba	422	1038	537	428	861	657	1019	902	1486	648
Rb	92	499	425	136	140	259	224	136	148	100
Sr	156	44	148	17	149	115	92	212	207	164
Pb	9	15	47	6	25	36	29	33	30	19
Th	8	10	14	10	14	28	42	26	24	48
U	3	4	3	2	2	5	5	3	2	3
Zr	158	244	139	189	177	276	218	210	202	259
Nb	13	19	10	13	9	17	20	11	15	16
Y	32	39	33	12	26	40	57	34	53	37
La	23	<2	23	22	22	35	77	41	46	80
Ce	49	60	53	52	43	71	146	82	91	152
Nd							58	33	40	63
Sn										
V	217	235	222	243	170	118	300	109	247	271
Cr	648	1066	374	371	142	158	176	110	167	156
Ni	185	178	365	110	59	81	118	34	46	52
Cu	49	35	10	<2	3	8	172	16	10	31
Zn	107	148	161	324	117	104	134	81	104	100
Ga	33	36	30	28	19	23	35	17	21	19

Late Proterozoic Metasediments

Sample Number	73281782	72280898	72280924	72280947	72280963	72280965	72280969	72280973	73281973	73281979
Area	NPCM	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Moore Pyramid	Low Tongue	Taylor Glacier	Forbes Glacier	Mawson Rock	Mawson Rock	Mawson Rock	Mawson Rock	Lucas Ntk	Lucas Ntk
Rock type	Gt-si-bi-cd pelite	Gt-bi-si-cd pelite	Gt-bi-si-cd pelite	Gt-bi-si pelite	Gt-bi-op-cd pelite	Gt-bi-op-cd pelite	Gt-bi-cd pelite	Gt-bi-si-cd pelite	Gt-bi-si pelite	Gt-bi-si-cd pelite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2	3	3	3	3	3	3	3	3	3
SiO_2	69.00	66.40	79.40	72.60	45.70	45.00	49.70	44.30	63.40	62.50
TiO_2	0.93	1.25	0.83	0.10	0.88	1.38	0.90	0.87	1.10	1.22
Al_2O_3	13.54	19.18	10.49	15.11	22.29	19.17	20.66	26.83	17.78	17.67
Fe_2O_3	0.33	1.72	1.91	0.37	2.55	5.22	4.59	2.03	4.16	4.10
FeO	6.54	6.05	3.50	0.90	8.80	12.60	10.50	6.75	4.45	5.90
MnO	0.14	0.07	0.05	0.03	0.15	0.20	0.16	0.17	0.13	0.13
MgO	2.91	1.89	1.45	0.36	9.82	11.20	9.02	10.60	2.39	3.00
CaO	1.30	0.17	0.16	1.18	1.51	0.72	0.31	0.36	0.92	0.80
Na_2O	1.15	0.22	0.29	3.40	1.30	0.23	0.19	0.50	0.66	0.54
K_2O	2.44	2.60	1.90	5.01	4.27	2.22	2.23	4.93	3.73	3.03
P_2O_5	0.06	0.05	0.03	0.22	0.28	0.02	0.01	0.23	0.08	0.07
H_2O+	0.94	0.62	0.60	0.46	0.80	0.38	0.58	0.80	0.44	0.62
H_2O-										
CO_2	0.15									
Rest	0.22	0.21	0.17	0.12	0.32	0.29	0.24	0.25	0.26	0.24
TOTAL	99.65	100.43	100.78	99.86	98.67	98.63	99.09	98.62	99.50	99.82
Ba	607	479	388	486	914	739	586	543	885	650
Rb	113	128	106	198	381	179	180	321	158	132
Sr	127	42	67	109	77	16	12	17	123	82
Pb	18	19	13	30	16	4	6	9	23	17
Th	20	17	14	10	47	1	2	45	22	27
U	2	2	1	3	10	1	<1	9	1	<1
Zr	181	327	271	69	348	189	105	388	202	220
Nb	10	18	10	7	17	12	9	24	9	10
Y	34	38	19	31	66	43	13	56	34	28
La	39	22	20	17	85	9	2	86	31	36
Ce	77	50	42	35	170	21	5	184	64	75
Nd	31									
Sn										
V	163	182	101	7	117	238	237	88	140	167
Cr	141	129	150	3	36	280	265	26	134	157
Ni	49	12	51	3	59	164	119	25	69	85
Cu	5	<2	2	2	<2	<2	<2	<2	43	36
Zn	96	106	78	17	280	312	232	203	104	159
Ga	19	30	15	14	32	40	45	31	25	29

Late Proterozoic Metasediments

Sample Number	73282065	73282178	73282183	73282196	73282051	73282052	73282053	73282055B	73282059	73282060
Area	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Mount Twintop	Forbes Glacier	Forbes Glacier	Low Tongue	Mawson Rock	Mawson Rock	Mawson Rock	Mawson Rock	Mawson Rock	Mawson Rock
Rock type	Gt-bi-si-cd pelite	Bi-si-cd pelite	Gt-bi-si-cd pelite	Gt-bi-si-cd pelite	Sp-sa-op granulite	Sp-sa-op granulite	Cd-sa-phl granulite	Sa-phl granulite	Op-sa-phl granulite	Sa-phl-op granulite
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	3	3	3	3	12,21	12,21	12,21	12,21	12,21	12,21
SiO_2	58.00	54.10	52.50	65.90	40.40	37.30	46.80	37.70	38.40	38.70
TiO_2	1.07	1.48	1.42	1.10	0.12	0.14	0.97	0.33	0.16	0.29
Al_2O_3	19.07	21.23	21.37	18.81	24.40	27.62	18.15	23.47	22.52	21.75
Fe_2O_3	4.35	5.54	4.60	1.89	0.54	0.90	0.10	0.71	1.41	2.41
FeO	6.60	6.40	7.50	5.15	0.65	0.55	0.70	1.00	1.90	4.90
MnO	0.16	0.16	0.28	0.06	0.04	0.05	0.03	0.03	0.06	0.14
MgO	3.99	3.84	3.42	1.71	33.50	32.00	25.50	25.10	25.70	21.50
CaO	0.61	1.73	0.42	0.15	0.04	0.12	0.12	0.04	0.07	0.90
Na_2O	1.25	0.94	0.66	0.28	0.10	0.11	0.59	0.69	0.55	0.62
K_2O	4.53	2.97	5.89	3.47	0.58	0.68	4.70	7.45	6.57	5.73
P_2O_5	0.09	0.09	0.15	0.07	<0.01	<0.01	0.01	0.04	0.02	0.02
H_2O+	0.40	1.20	0.62	0.70	0.42	0.44	1.10	1.06	1.03	1.13
H_2O-					0.07	0.08		0.12	0.09	0.08
CO_2										
Rest	0.31	0.28	0.43	0.23	0.04	0.05	0.18	0.12	0.08	0.10
TOTAL	100.43	99.96	99.26	99.52	100.89	100.03	98.95	97.86	98.56	98.27
Ba	1340	758	2011	718	16	15	43	36	34	35
Rb	138	146	230	161	61	64	375	530	373	297
Sr	111	109	131	57	1	3	7	6	11	20
Pb	24	20	35	27	1	1	7	6	7	8
Th	2	29	31	26	6	17	5	2	14	30
U	<1	2	2	2	2	2	4	2	<1	1
Zr	207	279	258	259	132	129	765	297	127	119
Nb	12	15	13	15	13	13	147	31	27	24
Y	79	19	43	27	7	21	21	13	11	14
La	23	47	46	32	<2	2	<2	<2	<2	4
Ce	36	94	90	66	4	11	9	3	<3	10
Nd										
Sn										
V	135	196	221	159	13	20	22	19	19	29
Cr	137	199	201	126	5	4	8	5	6	8
Ni	63	79	79	40	6	6	5	7	16	18
Cu	3	3	10	<2	<2	<2	<2	<2	<2	<2
Zn	153	180	134	98	36	62	8	40	50	199
Ga	35	32	31	28	5	8	2	9	7	11

Late Proterozoic Metasediments

Sample Number	73282061	73282188
Area	Mawson Coast	Mawson Coast
Locality	Mawson Rock	Forbes Glacier
Rock type	Sp-sa-phl granulite	Op-cp-qz-pl gneiss
Additional Data		Calc-sil.
Age	Protero	Protero
Bibliog. ref.	12,21	6
SiO_2	37.20	56.00
TiO_2	0.15	0.68
Al_2O_3	21.00	19.44
Fe_2O_3	1.71	1.96
FeO	2.00	3.60
MnO	0.07	0.50
MgO	24.60	2.97
CaO	0.02	13.62
Na_2O	0.55	0.35
K_2O	8.26	<0.01
P_2O_5	0.03	0.16
H_2O+	1.07	0.44
H_2O-	0.07	
CO_2		
Rest	0.09	0.15
TOTAL	96.82	99.86
Ba	7	33
Rb	350	1
Sr	6	222
Pb	10	8
Th	51	17
U	3	3
Zr	136	124
Nb	23	15
Y	13	35
La	<2	35
Ce	<3	72
Nd		
Sn		
V	11	87
Cr	6	76
Ni	11	52
Cu	<2	225
Zn	92	81
Ga	4	25

Late Proterozoic Granitic Intrusives

Sample Number	71280038	71280239	73281647	73281597	71280028	65280257	71280230	65280256	71280228	73281648
Area	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM
Locality	Fisher Massif	Fisher Massif	Fisher Massif	Fisher Massif	Fisher Massif	Mount Willing	Mount Willing	Mount Willing	Mount Willing	Mount Collins
Rock type	Hb-bi tonalite	Hb tonalite	Bi tonalite	Bi granite	Bi granite	Hb-bi granod	Bi granod dyke	Bi granite	Bi granite dyke	Hb-cp monzonite
Additional Data	xenolith	xenolith								
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
SiO_2	60.40	65.60	65.30	69.20	68.30	62.90	66.90	72.60	75.80	58.60
TiO_2	1.14	0.65	0.40	0.49	0.37	0.97	0.74	0.37	0.15	0.80
Al_2O_3	16.33	14.18	16.41	14.56	14.96	15.53	14.56	13.87	12.43	16.71
Fe_2O_3	2.82	1.68	1.93	1.12	2.45	2.46	2.29	1.16	0.69	3.89
FeO	3.66	2.86	2.30	2.00	1.31	4.18	2.59	0.98	0.95	4.58
MnO	0.14	0.06	0.09	0.08	0.03	0.14	0.10	0.05	0.03	0.21
MgO	2.07	2.97	1.68	0.93	0.10	2.10	1.46	0.45	0.35	0.21
CaO	4.59	6.31	4.61	2.71	0.89	4.14	2.98	1.77	1.16	3.35
Na_2O	4.29	3.73	3.65	3.60	2.90	3.33	3.23	3.45	2.67	4.61
K_2O	1.99	0.22	2.04	3.89	7.20	2.24	3.44	4.11	4.99	5.20
P_2O_5	0.45	0.10	0.16	0.15	0.02	0.30	0.22	0.05	0.01	0.21
H_2O+	1.54	0.96	1.05	0.76	0.62	0.98	1.02	0.65	0.37	0.47
H_2O-										
CO_2	0.08	0.07			0.11	0.07	<0.05	<0.05	<0.05	0.22
Rest	0.18	0.11	0.21	0.25	0.29	0.26	0.29	0.26	0.13	0.56
TOTAL	99.68	99.50	99.83	99.74	99.55	99.60	99.77	99.72	99.68	99.62
Ba	287	126	641	1120	693	1025	1480	1560	575	2468
Rb	114	2	83	179	92	60	90	77	99	47
Sr	360	225	630	331	106	336	300	177	144	242
Pb	8	2	13	10	25	21	18	29	33	11
Th	7	3	6	16	35	6	8	10	9	<1
U	3	1	2	2	2	2	1	1	1	1
Zr	195	115	105	186	729	232	253	185	99	1600
Nb	17	6	4	10	4	11	9	6	3	15
Y	36	22	12	25	18	33	34	13	9	28
La	20	9	7	23	101	43	2	42	8	22
Ce	58	26	25	51	431	80	27	69	33	64
Nd	30	14			71	38	16	26	8	39
Sn	2	3	<1	2	<1	2	1	<1	1	<1
V	125	161	85	45	<1	108	69	23	11	2
Cr	<3	60	17	8	<3	36	21	<3	6	<3
Ni	<2	17	9	4	4	15	9	<2	5	<2
Cu	53	3	36	73	4	22	8	10	6	13
Zn	82	25	57	41	45	80	62	29	30	94
Ga	19	14	16	15	19	20	16	15	15	23

Late Proterozoic Granitic Intrusives

Sample Number	69280162	71280003	70280043	70280254	70280292	73282164	72280701B	72280977	73281808	73281809
Area	NPCM	NPCM	NPCM	NPCM	NPCM	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Branstetter Rocks	Crohn Massif	Loewe Massif	Loewe Massif	Amery Peaks	Mawson Rock	Mawson Rock	Mawson Rock	Macey Island	Macey Island
Rock type	Hb-op granod	Op-hb-bi granite	Bi granite	Bi-op granite	Op granite	Op-qz-pl xenolith	Op granod	Op granod	Op granod	Op granod
Additional Data	JenningsCh						Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2	1,2	1,2	1,2	1,2	10	6,10	6,10	6,10	6,10
SiO_2	62.10	66.20	66.10	70.50	68.70	57.60	61.20	61.60	66.90	63.20
TiO_2	1.56	0.72	0.89	0.56	0.62	2.37	1.68	1.89	0.56	0.74
Al_2O_3	14.93	14.70	14.85	13.86	14.46	15.54	14.92	14.68	15.15	15.45
Fe_2O_3	1.35	1.76	1.83	1.01	1.23	0.81	1.30	1.06	0.65	1.01
FeO	6.19	2.79	2.39	2.07	1.99	10.10	7.95	7.35	4.20	6.35
MnO	0.13	0.06	0.06	0.06	0.05	0.23	0.23	0.19	0.10	0.16
MgO	1.14	1.34	1.11	0.60	0.72	2.99	2.78	2.55	2.08	3.69
CaO	5.02	3.84	2.42	1.75	2.32	6.73	5.61	5.20	4.84	5.96
Na_2O	2.48	2.99	2.89	2.71	3.10	2.20	2.20	2.10	2.45	2.25
K_2O	3.24	3.66	5.71	5.58	4.75	1.03	1.78	2.62	2.56	1.05
P_2O_5	0.49	0.24	0.38	0.04	0.11	0.54	0.32	0.41	0.16	0.16
H_2O+	0.56	0.85	0.80	0.34	0.83	0.34	0.24	0.24	0.20	0.24
H_2O-										
CO_2	0.11	0.26	0.11	0.07	0.26					
Rest	0.45	0.33	0.42	0.32	0.33	0.31	0.25	0.23	0.19	0.18
TOTAL	99.75	99.74	99.96	99.47	99.47	100.79	100.46	100.12	100.04	100.44
Ba	1670	1619	1757	1538	1506	1286	927	804	753	405
Rb	99	107	245	186	139	22	47	75	90	64
Sr	304	323	461	287	188	208	175	166	228	195
Pb	32	23	46	49	50	15	15	16	14	10
Th	7	10	39	15	41	9	2	4	6	10
U	1	1	3	2	1	1	1	<1	<1	1
Zr	876	288	384	370	512	394	336	295	157	170
Nb	45	11	18	12	18	24	19	29	8	12
Y	37	29	35	11	19	49	41	38	15	35
La	101	69	123	47	62	74	64	65	31	32
Ce	195	128	213	64	104	156	128	132	62	76
Nd	92	51	80	21	37					
Sn	<1	<1	1	<1	<1		<1			
V	53	70	55	19	31	127	96	89	64	124
Cr	6	9	15	4	7	25	34	28	47	142
Ni	2	4	4	4	3	10	10	10	10	18
Cu	20	12	12	6	4	40	23	23	8	<2
Zn	135	50	69	57	59	111	97	92	53	83
Ga	23	18	20	19	19	23	22	22	19	19

Late Proterozoic Granitic Intrusives

Sample Number	73282153	72280701A	73281969	73281971	73281988	73281992	73282151	73282157	73282161	73282210
Area	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Mawson Rock	Mawson Rock	N. David Range	N. David Range	Filson Ntk	Poulton Peak	Mawson Rock	Mawson Rock	Mawson Rock	Evans Island
Rock type	Op granod	Op granite	Op granite	Op granite	Op granite	Op granite	Op granite	Op granite	Op granite	Op granite
Additional Data	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10
SiO_2	61.70	63.40	60.90	60.30	70.80	63.30	63.70	59.70	65.30	66.00
TiO_2	1.63	1.59	1.98	2.07	0.63	1.03	1.47	1.92	1.48	0.91
Al_2O_3	14.73	14.65	14.22	13.82	14.11	15.85	14.82	15.24	14.44	14.97
Fe_2O_3	0.91	1.17	1.65	1.66	1.19	1.19	0.71	0.99	0.79	0.98
FeO	8.05	6.15	7.10	7.65	1.70	4.60	5.90	7.85	5.80	2.95
MnO	0.22	0.16	0.20	0.22	0.04	0.09	0.15	0.19	0.14	0.05
MgO	2.63	2.16	2.44	2.50	0.93	2.23	1.95	3.70	1.91	1.10
CaO	5.46	4.51	4.94	4.96	2.76	4.52	4.40	4.95	4.32	2.63
Na_2O	2.20	2.10	1.85	1.80	2.05	2.30	2.10	2.05	2.00	1.85
K_2O	1.88	3.51	3.60	3.58	5.31	3.56	3.98	3.13	3.84	6.82
P_2O_5	0.34	0.39	0.48	0.52	0.14	0.27	0.39	0.51	0.39	0.36
H_2O+	0.42	0.14	0.68	0.44	0.36	0.58	0.42	0.40	0.30	0.40
H_2O-										
CO_2										
Rest	0.25	0.28	0.30	0.30	0.23	0.27	0.28	0.28	0.27	0.37
TOTAL	100.42	100.21	100.34	99.82	100.25	99.79	100.27	100.91	100.98	99.39
Ba	908	1100	1124	1140	879	1100	1225	947	1121	1181
Rb	49	127	112	114	190	139	131	96	123	240
Sr	171	161	171	169	184	185	171	159	164	225
Pb	16	21	16	17	19	19	21	16	22	47
Th	3	3	3	4	41	4	3	5	1	133
U	<1	1	1	1	2	2	<1	1	<1	3
Zr	344	376	473	460	293	250	317	458	375	502
Nb	19	26	29	28	10	15	22	28	22	14
Y	40	39	46	46	12	17	34	38	34	23
La	62	67	59	65	62	69	61	66	58	213
Ce	119	133	129	135	119	129	117	136	111	416
Nd										
Sn		<1								
V	95	76	92	93	43	93	71	98	75	52
Cr	34	30	31	26	25	49	28	41	27	15
Ni	10	8	10	9	8	20	8	9	9	10
Cu	27	17	17	17	5	23	15	22	16	13
Zn	97	81	99	95	30	66	72	102	73	41
Ga	22	21	21	21	16	21	21	22	21	17

Late Proterozoic Granitic Intrusives

Sample Number	73282212	73282214	77284860	77284863	77284864	77284865	77284867	77284868
Area	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast	Mawson Coast
Locality	Evans Island	Evans Island	Evans Island	Evans Island	Stinear Island	Evans Island	Stinear Island	Lee Island
Rock type	Op granite dyke	Op granite	Op granite	Gt-op granite	Op granite	Op granite	Op granite	Op granite
Additional Data	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch	Mawson Ch
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10
SiO_2	66.30	63.40	64.50	70.80	66.30	66.40	60.60	63.20
TiO_2	1.05	0.86	1.12	0.78	0.83	0.96	2.00	1.49
Al_2O_3	13.57	16.05	14.89	13.58	14.44	15.03	14.71	14.10
Fe_2O_3	1.08	1.06	1.46	1.06	0.71	1.20	2.03	1.31
FeO	4.95	4.25	4.00	1.88	3.26	3.24	6.70	5.81
MnO	0.11	0.09	0.08	0.05	0.07	0.06	0.21	0.16
MgO	2.59	2.52	2.21	0.86	1.46	1.61	2.55	2.37
CaO	3.71	3.52	3.75	2.15	2.95	3.36	5.52	4.58
Na_2O	2.05	2.10	2.08	1.61	2.28	2.09	1.84	1.88
K_2O	3.40	5.59	4.38	6.36	5.40	5.19	3.28	3.97
P_2O_5	0.37	0.32	0.31	0.24	0.28	0.29	0.48	0.37
H_2O+	0.40	0.36	0.29	0.51	0.33	0.38	0.21	0.21
H_2O-			0.07	0.12	0.10	0.13	0.09	0.11
CO_2								
Rest	0.27	0.35	0.22	0.25	0.24	0.27	0.29	0.27
TOTAL	99.85	100.47	99.36	100.25	98.65	100.21	100.51	99.83
Ba	685	1518	728	823	815	946	1280	1190
Rb	131	246	161	265	260	220	101	132
Sr	146	231	179	120	163	172	198	176
Pb	27	27	30	41	32	31	15	20
Th	68	28	5	73	35	41	3	2
U	1	2	<1	<1	1	<1	<1	<1
Zr	383	239	260	319	289	325	326	287
Nb	15	12	17	14	18	16	21	17
Y	31	24	15	30	14	15	33	28
La	114	89	39	101	75	91	61	54
Ce	223	167	69	183	139	164	120	101
Nd								
Sn			1	<1	<1	<1	<1	<1
V	98	95	91	32	55	65	86	76
Cr	101	97	52	17	32	37	45	57
Ni	29	24	23	9	11	12	10	16
Cu	35	20	15	11	6	12	22	17
Zn	91	62	65	32	51	59	98	81
Ga	21	20	19	16	19	19	21	20

Mafic Igneous Rocks

Sample Number	72280856	73281748	73281927	72280762	72280766	73281077	73281098	73281279	73281281	73281313
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mount Ruker	Mount Newton	Cumpston Massif	Mount Stinear	Mount Stinear	Mount Rymill	Mount Scherger	Mount Ruker	Mount Ruker	Mount Rymill
Rock type	Quartz tholeiite	Quartz tholeiite	Metasomat. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite
Additional Data	Group II	Group II								
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13
SiO_2	49.00	47.70	51.30	50.60	49.50	47.30	49.10	48.80	48.40	50.80
TiO_2	1.94	3.20	2.37	2.41	3.15	0.35	1.32	1.09	1.02	1.10
Al_2O_3	13.30	12.64	11.20	12.92	11.92	15.12	14.17	16.31	15.07	13.66
Fe_2O_3	1.58	3.65	3.13	3.17	2.65	1.15	2.42	1.32	1.06	2.48
FeO	12.20	13.80	9.35	11.50	14.10	8.10	11.00	9.50	11.40	10.30
MnO	0.22	0.25	0.20	0.23	0.29	0.15	0.18	0.17	0.21	0.21
MgO	5.86	5.19	4.66	5.34	4.65	14.39	6.53	6.18	8.64	6.73
CaO	10.83	9.85	9.03	7.57	9.00	10.30	10.06	12.45	10.61	10.60
Na_2O	2.30	2.40	1.55	2.50	2.30	1.15	2.90	2.20	1.95	2.10
K_2O	0.36	0.34	5.21	1.51	0.68	0.16	1.59	0.17	0.29	0.49
P_2O_5	0.19	0.28	0.41	0.23	0.48	0.05	0.14	0.06	0.09	0.10
H_2O+	1.40	0.60	0.80	1.60	0.94	2.15	0.76	1.50	1.40	1.10
H_2O-				0.07						
CO_2			0.55	0.08						
Rest	0.19	0.25	0.27	0.22	0.22	0.23	0.19	0.17	0.14	0.16
TOTAL	99.37	100.15	100.03	99.95	99.88	100.60	100.36	99.92	100.28	99.83
Ba	81	109	660	89	176	15	85	39	23	45
Rb	8	10	140	62	16	7	97	6	12	34
Sr	182	180	183	122	104	76	93	105	96	134
Pb	2	10	16	11	4	1	3	1	<1	7
Th	1	1	8	4	7	<1	2	1	1	1
U	1	<1	4	2	3	<1	<1	<1	<1	<1
Zr	111	186	271	169	300	29	82	62	49	59
Nb	6	9	18	10	17	1	4	2	2	3
Y	29	44	79	35	62	9	29	21	21	21
La	6	12	31	11	5	2	2	3	2	2
Ce	18	35	67	25	19	6	14	9	5	9
Nd										
Sn				2	3					
V	342	439	242	437	344	122	337	293	264	280
Cr	97	70	99	111	101	741	276	373	155	154
Ni	68	74	65	96	62	554	102	78	202	108
Cu	239	452	<2	186	194	30	38	45	44	141
Zn	114	154	182	148	137	72	127	100	77	115
Ga	21	25	21	20	21	11	18	17	16	15

Mafic Igneous Rocks

Sample Number	73281402	73281419	73281425	73281620B	73281642	73281929	73282106	73281650	71280031	71280240
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	NPCM	NPCM	NPCM
Locality	Mawson Esc. B	Machin Ntk	Mawson Esc. C	Mount Ruker	Mount Stinear	Cumpston Massif	Mawson Esc. A	Mount Willing	Fisher Massif	Fisher Massif
Rock type	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Metagabbro	Metagabbro	Metabasalt
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Bibliog. ref.	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2,9,13	1,2	1,2	1,2
SiO_2	50.10	49.80	51.50	51.70	49.20	49.90	48.00	56.40	56.10	55.60
TiO_2	1.10	2.00	1.72	0.73	2.32	1.02	1.58	0.68	0.86	0.99
Al_2O_3	14.16	12.88	13.74	14.15	14.93	14.79	15.06	15.74	16.76	17.15
Fe_2O_3	1.91	2.00	2.39	0.89	1.98	1.99	4.96	1.98	3.29	2.98
FeO	9.50	12.80	12.40	8.90	10.10	8.95	11.30	5.65	4.77	5.56
MnO	0.19	0.24	0.20	0.19	0.17	0.20	0.22	0.14	0.15	0.15
MgO	7.65	5.95	4.03	7.72	5.40	8.03	4.63	5.12	3.66	3.41
CaO	11.80	10.58	8.94	11.34	10.98	12.33	10.24	8.23	7.56	7.46
Na_2O	1.95	2.05	2.05	2.60	3.00	1.65	2.45	2.90	3.07	3.72
K_2O	0.21	0.44	0.98	0.04	0.27	0.38	0.46	1.44	1.37	1.08
P_2O_5	0.10	0.19	0.22	0.08	0.26	0.13	0.02	0.29	0.26	0.29
H_2O+	0.88	0.88	1.10	1.58	0.88	0.76	0.88	1.00	1.74	1.24
H_2O-				0.06						
CO_2									0.16	0.07
Rest	0.18	0.22	0.23	0.10	0.20	0.15	0.20	0.23	0.23	0.19
TOTAL	99.73	100.03	99.50	100.08	99.69	100.28	100.00	99.80	99.98	99.89
Ba	74	68	266	16	33	41	65	522	495	291
Rb	7	8	28	2	2	4	11	47	38	19
Sr	175	137	168	126	367	151	193	522	611	434
Pb	6	6	2	<1	7	3	6	8	11	5
Th	<1	1	6	<1	1	<1	<1	5	4	2
U	<1	<1	3	<1	<1	<1	<1	1	2	<1
Zr	65	118	166	40	150	56	38	79	82	88
Nb	3	5	8	1	9	3	1	4	5	4
Y	20	40	38	17	31	19	13	18	17	15
La	5	2	22	2	5	3	<2	14	13	15
Ce	11	19	53	6	22	11	10	36	31	32
Nd									18	18
Sn										
V	307	481	338	275	380	294	684	218	225	314
Cr	217	89	73	25	64	172	16	112	34	14
Ni	110	59	77	64	88	116	27	33	11	7
Cu	139	316	224	27	158	69	89	57	137	82
Zn	112	146	169	88	98	90	119	78	79	78
Ga	16	20	19	16	21	15	18	16	18	19

Mafic Igneous Rocks

Sample Number	71280242	65280258	71280229	73281646	71280247	71280394	71280396	71280362	70280296	73282068
Area	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	NPCM	Mawson Coast
Locality	Fisher Massif	Mount Willing	Mount Willing	Fisher Massif	Mount Collins	Mount Collins	Mount Collins	Mount Meredith	Amery Peaks	Neill Peak
Rock type	Metabasalt	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Amphibol. tholeiite	Tholeiitic basalt	Tholeiitic basalt
Additional Data										
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero		
Bibliog. ref.	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2,14	1,2,14
SiO_2	57.30	50.40	48.20	45.80	45.00	47.00	47.20	50.40	45.70	47.30
TiO_2	1.17	1.24	2.91	2.51	4.25	2.70	3.08	1.80	2.29	1.30
Al_2O_3	16.01	17.06	13.72	16.28	13.17	13.56	14.02	15.51	13.75	13.32
Fe_2O_3	3.10	2.67	4.82	5.13	2.45	2.08	3.51	1.35	3.20	2.22
FeO	5.74	7.20	10.15	8.27	11.12	10.50	9.57	11.33	7.55	7.94
MnO	0.15	0.18	0.24	0.21	0.18	0.17	0.15	0.19	0.36	0.14
MgO	3.67	5.73	5.11	6.29	6.86	6.96	6.29	6.96	7.80	9.20
CaO	7.19	8.91	9.33	9.08	9.89	9.38	9.25	9.25	7.60	9.15
Na_2O	3.90	3.13	2.86	2.97	2.94	3.07	3.14	0.46	1.69	2.22
K_2O	0.60	0.79	0.72	0.68	0.80	0.60	0.69	0.84	1.63	1.05
P_2O_5	0.20	0.25	0.33	0.52	0.45	0.27	0.32	0.22	0.45	0.18
H_2O+	1.43	1.59	1.44	1.97	1.59	1.64	2.01	2.17	4.94	2.28
H_2O-										
CO_2	<0.05	0.18	<0.05	<0.05	0.92	2.67	0.70	<0.05	2.45	3.95
Rest	0.15	0.20	0.22	0.22	0.26	0.22	0.23	0.21	0.30	0.24
TOTAL	100.56	99.53	100.00	99.88	99.88	100.82	100.16	100.64	99.71	100.49
Ba	287	462	270	326	314	264	290	502	671	395
Rb	10	16	15	11	18	14	18	62	32	29
Sr	258	456	338	427	458	376	385	158	460	297
Pb	2	9	4	6	2	2	1	6	4	2
Th	1	2	2	1	2	2	2	4	4	2
U	<1	1	1	1	<1	<1	1	1	1	1
Zr	118	49	176	198	250	135	158	134	172	91
Nb	6	5	11	11	58	28	33	8	41	20
Y	23	19	34	32	29	22	26	47	21	15
La	8	16	11	15	14	11	18	20	36	15
Ce	25	36	30	40	40	29	34	42	61	32
Nd	14	18	22	26	29	18	23	26	32	15
Sn										
V	240	229	472	289	247	208	226	239	199	171
Cr	8	50	35	55	206	196	144	182	238	281
Ni	13	41	18	47	114	157	127	35	175	262
Cu	43	70	34	35	66	73	73	10	56	84
Zn	80	72	109	98	119	112	128	114	102	77
Ga	19	20	24	22	22	20	22	21	15	17

Mafic Igneous Rocks

Sample Number	71280126	70280131	73281897	69280217	69280225	71280007	73282035	69280151	IR15	IR20
Area	NPCM	Mawson Coast	NPCM	NPCM	NPCM	NPCM	Mawson Coast	NPCM	NPCM	NPCM
Locality	Taylor Platform	Mount Rivett	Mount Stalker	New Year Nunatak	Fox Ridge	Mount Kirkby	Scullin Monolith	Jetty Peninsula	Jetty Peninsula	Jetty Peninsula
Rock type	Calc-alk basalt	Calk-alk. basalt	Altered basalt	Olivine basalt	Alkali ol basalt	Alkali ol basalt	Alkali ol basalt	Trachy-basalt	Trachy-basalt	Trachy-basalt
Additional Data										
Age	Permian				Cambrian	?Cambrian				
Bibliog. ref.	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14	1,2,14
SiO_2	53.10	53.90	42.70	48.30	44.90	48.80	46.40	53.70	53.30	45.90
TiO_2	1.64	2.05	1.51	2.45	2.32	1.64	2.09	1.21	1.27	2.34
Al_2O_3	15.15	16.40	12.45	13.87	14.09	14.84	14.74	17.66	17.37	15.62
Fe_2O_3	2.04	1.38	3.38	2.60	3.45	2.07	2.05	2.25	3.02	5.11
FeO	6.70	7.03	7.40	6.68	6.35	6.55	7.45	7.00	6.26	8.26
MnO	0.12	0.18	0.16	0.13	0.16	0.14	0.16	0.20	0.18	0.25
MgO	4.57	2.48	12.46	6.65	7.40	7.21	6.92	1.84	1.35	3.85
CaO	7.43	5.54	8.34	8.26	9.64	7.31	8.22	3.68	3.64	6.89
Na_2O	3.50	2.59	1.26	2.99	2.99	3.22	3.26	4.12	4.54	4.70
K_2O	1.62	3.28	1.14	2.67	3.56	3.88	2.68	5.36	5.45	2.35
P_2O_5	0.43	0.50	0.29	0.83	0.78	0.51	0.50	0.67	0.71	1.17
H_2O+	0.51	2.66	4.56	3.04	2.80	2.35	3.30	1.59	1.77	2.01
H_2O-	0.26		0.48		0.29	0.24		0.06		
CO_2	3.22	2.20	3.51	0.60	1.98	1.98	1.26	0.48	0.31	1.03
Rest	0.28	0.33	0.25	0.38	0.44	0.36	0.39	0.36	0.38	0.52
TOTAL	100.57	100.52	99.89	99.45	101.15	101.10	99.42	100.18	99.55	100.00
Ba	907	1344	529	1378	1232	1144	1504	1302	1404	1331
Rb	44	82	42	33	126	131	74	120	122	85
Sr	535	601	385	740	1022	660	611	673	686	1539
Pb	5	11	4	2	4	6	3	14	14	8
Th	4	13	4	6	8	8	5	14	14	17
U	1	2	1	2	2	1	1	2	2	4
Zr	158	218	113	240	238	228	180	345	352	479
Nb	27	49	23	62	87	57	66	100	121	142
Y	20	24	17	20	26	23	20	34	35	39
La	31	61	19	55	60	48	42	91	93	115
Ce	59	100	36	89	114	83	71	151	155	182
Nd		46		46			33	47	61	70
Sn	<1				1	1				
V	113	85	175	138	153	124	138	7	4	94
Cr	116	14		91	218	179	187	<3	<3	25
Ni	86	11	488	84	149	132	111	4	<2	18
Cu	20	16	66	32	45	31	41	14	14	17
Zn	119	86	78	92	81	92	60	93	94	107
Ga	20	15	14	17	15	17	19	17	21	19

Mafic Igneous Rocks

Sample Number	R11370	73281545	69280152	69280334	71280140	73281594
Area	SPCM	SPCM	NPCM	NPCM	NPCM	NPCM
Locality	Mount Bayliss	Mount Bayliss	Radok Lake	Radok Lake	Manning Massif	Manning Massif
Rock type	Alk. mela-syenite	Alk. mela-syenite	Alnoite sill	Alnoite sill	Tristanite lava	Leucite tristanite lava
Additional Data						
Age	Silurian	Silurian	Cretaceous	Cretaceous	Eocene	Eocene
Bibliog. ref.	1,2,8	1,2,8	1,2,11	1,2,11	1,2,14	1,2,14
SiO_2	50.30	52.90	36.00	36.20	51.40	51.10
TiO_2	5.43	4.45	2.20	2.20	1.21	1.17
Al_2O_3	8.90	8.92	9.45	9.50	16.74	16.86
Fe_2O_3	2.72	2.64	2.95	2.20	2.48	2.70
FeO	6.00	5.30	7.65	8.35	3.25	3.25
MnO	0.11	0.11	0.18	0.20	0.10	0.09
MgO	5.56	5.95	14.50	14.70	3.88	4.00
CaO	5.06	4.00	16.10	15.60	4.26	4.11
Na_2O	1.75	2.05	1.95	1.78	4.67	5.75
K_2O	8.90	9.35	2.85	2.75	6.75	5.59
P_2O_5	1.85	1.75	0.84	0.69	1.61	1.42
H_2O+	1.06	0.89	3.35	4.10	2.06	2.79
H_2O-	0.29	0.31	0.32	0.51	1.04	1.01
CO_2	1.45	0.25	1.40	1.20	0.08	<0.05
Rest	0.64	0.67	0.56	0.64	0.59	0.60
TOTAL	100.02	99.54	100.30	100.62	100.12	100.39
Ba	1320	412	2150	2400	1394	1420
Rb	149	210	128	123	132	130
Sr	1259	1779	935	1047	1153	1208
Pb	19	28	5	7	38	36
Th	19	14	12	15	37	36
U	2	2	2	3	5	4
Zr	1242	1582	201	243	1161	1118
Nb	102	145	98	140	155	162
Y	37	32	17	23	27	26
La	156	162	34	47	151	156
Ce	270	276	82	105	242	243
Nd						
Sn	5	7			4	3
V	133	94	183	221	45	48
Cr	180	215	308	444	60	68
Ni	128	131	286	292	61	66
Cu	34	43	61	66	27	30
Zn	116	140	80	89	83	90
Ga	22	20			26	23

Cambrian Granitic Intrusives

Sample Number	73282122	73282124	73282126	73282131	72280846	73281039A	73281039B	73281094	73281322	73281337
Area	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM	SPCM
Locality	Mawson Esc. G	Mawson Esc. G	Mawson Esc. G	Mawson Esc. G	Mount Dummett	Mount Mather	Mount Mather	Mount Scherger	Mount Johns	Mount McCauley
Rock type	Bi granite	Bi-mus granite	Bi-mus granite	Bi granite	Bi-mus granite	Bi granite	Bi granite	Bi-mus granite	Bi-gt granite	Bi-mus granite
Additional Data										
Age	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	?Cambrian	Cambrian
Bibliog. ref.	1,2,6	1,2,6	1,2,6	1,2,6	1,2	1,2	1,2	1,2	1,2	1,2
SiO_2	74.80	73.60	76.00	75.00	75.70	72.50	73.10	76.10	76.20	74.10
TiO_2	0.14	0.27	0.08	0.06	0.02	0.28	0.17	0.17	0.02	0.06
Al_2O_3	13.56	14.25	13.17	13.56	14.23	15.62	14.80	14.92	14.03	15.27
Fe_2O_3	0.14	0.11	0.15	0.17	0.03	0.24	0.16	0.82	0.20	0.28
FeO	1.45	2.10	0.95	0.60	0.25	1.15	0.75	0.50	0.45	0.85
MnO	0.05	0.03	0.03	0.01	0.01	0.01	0.02	0.02	0.05	0.02
MgO	0.12	0.37	0.09	0.02	0.09	0.49	0.28	0.05	0.12	0.13
CaO	0.98	1.27	0.49	0.84	0.67	2.47	1.46	1.49	1.08	0.79
Na_2O	3.25	3.25	3.55	3.40	4.90	4.75	4.65	5.15	3.70	3.80
K_2O	4.93	4.88	4.52	5.49	3.63	2.50	3.56	0.94	4.74	4.38
P_2O_5	0.05	0.09	0.04	0.05	0.19	0.03	0.03	0.10	0.02	0.10
H_2O+	0.44	0.50	0.50	0.34	0.40	0.22	1.10	0.50	0.22	0.74
H_2O-										
CO_2										
Rest	0.15	0.22	0.13	0.11	0.05	0.15	0.14	0.10	0.13	0.07
TOTAL	100.06	100.94	99.70	99.65	100.17	100.41	100.22	100.86	100.96	100.59
Ba	318	803	185	172	32	394	523	151	720	63
Rb	402	337	372	345	216	56	66	47	98	245
Sr	58	105	32	50	26	449	287	183	106	54
Pb	53	50	56	72	71	21	22	67	77	65
Th	45	43	36	17	3	6	9	40	3	4
U	13	10	26	23	3	1	1	8	1	6
Zr	137	226	103	91	16	176	100	167	41	22
Nb	50	41	60	21	14	6	5	9	<1	27
Y	47	43	63	81	15	2	4	13	18	24
La	27	50	19	6	<2	22	26	27	5	4
Ce	55	95	44	18	7	46	48	50	9	13
Nd										
Sn	12	7	10	10	1	<1	<1	6	1	9
V	4	13	2	<1	<1	15	9	6	1	<1
Cr	<3	7	<3	<3	<3	3	5	<3	<3	<3
Ni	3	5	2	2	<2	3	3	<2	<2	<2
Cu	<2	<2	<2	<2	4	2	4	<2	3	<2
Zn	42	46	22	16	27	31	20	12	3	44
Ga	22	21	25	25	21	17	17	22	15	30

Cambrian Granitic Intrusives

Sample Number	73281340	73281609	73281100
Area	SPCM	SPCM	SPCM
Locality	Mount McCauley	Mount Dummett	Mount Scherger
Rock type	Bi-gt-mus granite	Bi-mus granite	Bi-mus granite
Additional Data			
Age	Cambrian	Cambrian	Cambrian
Bibliog. ref.	1,2	1,2	1,2
SiO_2	74.60	73.90	73.70
TiO_2	0.01	0.10	0.05
Al_2O_3	14.58	15.16	14.78
Fe_2O_3	0.23	0.03	0.06
FeO	0.60	0.65	0.35
MnO	0.09	0.01	0.01
MgO	0.02	0.15	0.03
CaO	0.71	1.80	1.26
Na_2O	4.75	3.75	4.65
K_2O	3.83	2.90	4.36
P_2O_5	0.03	0.03	0.24
H_2O+	0.34	0.64	0.64
H_2O-			
CO_2			
Rest	0.06	0.37	0.14
TOTAL	99.85	99.49	100.27
Ba	16	1963	549
Rb	256	54	185
Sr	22	1005	126
Pb	76	43	74
Th	5	1	30
U	3	1	6
Zr	35	67	102
Nb	23	1	8
Y	26	3	24
La	<2	2	22
Ce	8	14	41
Nd			
Sn	6	<1	1
V	<1	9	1
Cr	<3	<3	<3
Ni	<2	8	<2
Cu	<2	2	<2
Zn	11	15	12
Ga	31	15	20

Archaean Tryne Metavolcanics

Sample number	81-304	81-306	81-307	81-308	81-311	81-393	81-394	81-395	81-396	81-351
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Tryne Crossing	Tryne Crossing	Tryne Crossing	Tryne Crossing	Tryne Crossing	NE Long Peninsula	NE Long Peninsula	NE Long Peninsula	NE Long Peninsula	NE Long Peninsula
Rock type	Hb-Px-Pl granulite	Hb-Px-Pl granulite	Hb-Px-Pl granulite	Px-Pl granulite	Px-Hb-Pl granulite	Hb-Px-Pl granulite	Px-Hb-Pl granulite	Hb-Px-Pl granulite	Hb-Px-Pl granulite	Bi-Hb-Px-Pl granul.
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv
Biblio. ref.	15,16	15,16	15,16	15,16	15,16	15,16	15,16	15,16	15,16	15,16
SiO_2	50.70	49.70	51.80	50.10	46.90	48.60	48.60	48.20	47.40	49.90
TiO_2	1.10	1.97	1.55	1.53	0.69	1.39	1.03	0.77	0.86	1.20
Al_2O_3	14.33	14.30	13.69	13.86	15.31	14.30	15.08	16.00	17.72	12.64
Fe_2O_3	1.76	2.67	1.77	2.96	2.36	2.10	2.29	1.73	1.71	2.45
FeO	7.71	8.60	8.86	9.60	8.53	10.60	9.65	9.57	8.37	9.30
MnO	0.21	0.23	0.23	0.23	0.18	0.20	0.20	0.24	0.20	0.17
MgO	6.00	4.65	5.36	5.33	9.84	7.11	7.47	7.89	6.90	8.97
CaO	12.65	12.35	10.26	10.63	11.48	10.75	10.79	11.68	12.65	9.00
Na_2O	3.49	3.79	4.12	3.87	2.12	2.91	2.82	2.24	2.20	2.74
K_2O	0.55	0.59	0.75	0.65	0.64	0.49	0.62	0.24	0.27	0.84
P_2O_5	0.10	0.23	0.18	0.17	0.07	0.15	0.10	0.08	0.09	0.52
H_2O+	0.46	0.29	0.39	0.34	0.31	0.45	0.63	0.47	0.53	0.85
H_2O-										
CO_2										
Rest	0.17	0.19	0.18	0.17	0.19	0.17	0.15	0.15	0.19	0.44
Total	99.23	99.56	99.14	99.44	98.62	99.22	99.43	99.26	99.09	99.02
Ba	126	109	138	110	85	52	62	42	50	1247
Li	9	7	8	7	5	7	7	7	6	4
Rb	11	5	5	7	11	4	7	2	2	9
Sr	118	166	133	119	134	127	128	160	172	451
Pb	1	6	4	4	3	2	2	<1	2	4
Th	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
U	0.5	1	<0.5	0.5	<0.5	0.5	1	<0.5	<0.5	1.5
Zr	63	120	103	95	36	81	66	40	42	240
Nb	2	7	5	6	1	5	3	1	1	10
Y	25	41	37	37	15	27	22	20	21	58
La	3	7	8	11	2	6	4	<2	2	60
Ce	12	19	28	24	7	14	10	8	7	136
Nd										
Sc	45	40	42	43	34	40	39	37	41	30
V	310	366	333	342	192	310	258	231	260	191
Cr	210	158	135	145	528	261	222	232	480	624
Ni	116	71	63	76	189	81	116	172	146	203
Cu	7	39	59	49	3	64	23	9	28	41
Zn	92	126	117	110	80	80	78	92	73	125
Ga	15	18	15	16	14	16	15	11	16	16
As	1.5	<0.5	0.5	<0.5	<0.5	1	1	<0.5	<0.5	0.5
Be	1	2	1	1	1	2	2	2	2	2

Archaean Tryne Metavolcanics

Sample number	81-356	81-309	81-310	81-325	81-326
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	NE Long Peninsula	Tryne Crossing	Tryne Crossing	Tryne Crossing	Tryne Crossing
Rock type	Bi-Hb-Px-Pl granul.	Bi-Qz-Px-Pl granul.	Bi-Qz-Px-Pl granul.	Tonalite gneiss	Tonalite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv	Tryne Mv
Biblio. ref.	15,16	15,16	15,16	15,16	15,16
SiO_2	51.10	58.30	58.70	63.50	63.20
TiO_2	1.04	0.72	0.82	0.63	0.62
Al_2O_3	12.10	15.05	15.23	15.01	14.97
Fe_2O_3	1.88	0.93	0.84	1.20	1.55
FeO	9.06	6.28	7.03	4.28	4.10
MnO	0.16	0.11	0.08	0.13	0.13
MgO	10.20	6.16	5.37	1.94	1.87
CaO	8.13	6.23	5.64	7.35	8.09
Na_2O	2.59	4.18	4.61	4.30	4.04
K_2O	1.16	1.16	0.82	0.70	0.59
P_2O_5	0.46	0.19	0.23	0.18	0.20
H_2O+	0.69	0.38	0.34	0.27	0.24
H_2O-					
CO_2					
Rest	0.50	0.18	0.17	0.13	0.13
Total	99.07	99.87	99.88	99.62	99.73
Ba	1600	234	136	171	210
Li	5	12	11	6	6
Rb	31	34	5	4	2
Sr	479	293	240	179	188
Pb	4	4	2	4	3
Th	2	1	<1	1	2
U	0.5	0.5	<0.5	0.5	0.5
Zr	198	126	153	214	242
Nb	9	5	7	8	7
Y	37	12	15	38	34
La	49	15	32	27	25
Ce	104	29	56	55	49
Nd					
Sc	26	17	18	20	16
V	169	105	117	78	70
Cr	808	268	210	44	43
Ni	292	151	124	35	24
Cu	27	4	2	29	16
Zn	113	76	44	68	64
Ga	16	17	17	18	16
As	1	0.5	<0.5	<0.5	<0.5
Be	2	2	2	2	2

Archaean Mossel Gneiss

Sample number	81-332	81-333	81-334	81-335	81-336	81-337	81-338	81-339	81-340	81-352
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	E of Tryne Crossing	NE Long Peninsula
Rock type	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	67.60	78.90	75.80	75.60	68.10	76.80	77.20	76.30	71.10	66.20
TiO_2	0.26	0.04	0.40	0.28	0.61	0.34	0.56	0.36	0.53	0.21
Al_2O_3	17.86	12.10	10.97	11.57	14.13	10.68	10.86	11.45	13.72	16.97
Fe_2O_3	1.70	0.79	2.62	1.87	1.57	2.22	1.91	2.14	1.93	1.95
FeO	0.51	0.24	1.76	1.35	3.12	1.58	1.63	1.61	2.25	2.05
MnO	0.01	0.01	0.04	0.03	0.06	0.04	0.03	0.04	0.05	0.05
MgO	0.75	0.32	0.22	0.26	2.16	0.63	0.36	0.39	0.96	1.37
CaO	4.67	3.09	2.77	3.08	4.08	2.60	3.00	2.90	3.80	5.26
Na_2O	3.86	3.13	3.40	3.59	3.71	3.71	3.39	3.72	3.91	4.38
K_2O	1.27	0.82	0.68	0.68	1.12	0.55	0.60	0.73	0.85	0.57
P_2O_5	0.09	0.01	0.06	0.05	0.17	0.05	0.07	0.07	0.13	0.11
H_2O+	0.34	0.38	0.36	0.36	0.74	0.32	0.38	0.37	0.52	0.49
H_2O-										
CO_2										
Rest	0.13	0.29	0.13	0.19	0.19	0.13	0.17	0.12	0.18	0.19
Total	99.05	100.12	99.21	98.91	99.76	99.65	100.16	100.20	99.93	99.80
Ba	557	2024	233	377	620	248	382	248	632	436
Li	8	6	6	7	9	9	8	7	7	9
Rb	6	78	3	3	11	5	3	4	6	3
Sr	424	313	213	263	276	221	362	223	292	804
Pb	7	15	4	9	8	5	5	6	9	10
Th	<1	<1	<1	26	1	1	<1	<1	3	<1
U	<0.5	<0.5	0.5	1	0.5	<0.5	<0.5	0.5	1	<0.5
Zr	75	50	475	270	256	435	479	364	265	48
Nb	1	<1	4	<1	9	2	4	2	6	<1
Y	1	<1	6	6	15	6	5	7	8	4
La	11	10	17	226	29	17	12	15	38	19
Ce	18	11	28	329	49	27	21	26	60	29
Nd										
Sc	4	<2	7	5	12	6	5	6	10	6
V	5	4	4	8	60	4	48	11	46	59
Cr	<3	<3	<3	<3	74	<3	<3	3	10	34
Ni	<2	<2	<2	<2	45	<2	2	<2	10	8
Cu	6	4	7	11	2	7	9	5	4	11
Zn	13	5	43	30	43	38	35	38	47	73
Ga	11	10	12	12	15	10	11	13	14	17
As	<0.5	<0.5	0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5
Be	1	1	1	1	2	1	1	2	2	2

Archaean Mossel Gneiss

Sample number	81-358	81285249	81-42C	81-250	81-251	81-252	81-253	81-254	81-255	81-256
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Rybnaya Bay	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake
Rock type	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	58.60	59.10	69.50	68.50	74.80	70.40	63.50	68.90	67.70	67.90
TiO_2	1.24	0.56	0.39	0.38	0.17	0.41	0.87	0.35	0.44	0.43
Al_2O_3	16.64	15.19	14.99	15.13	13.38	14.70	15.46	15.52	16.22	16.08
Fe_2O_3	2.32	2.27	1.22	0.79	1.17	1.39	1.79	0.87	0.83	0.94
FeO	5.37	5.31	2.40	2.50	1.22	2.32	4.57	2.19	2.45	2.61
MnO	0.09	0.11	0.06	0.04	0.02	0.04	0.08	0.04	0.04	0.04
MgO	3.15	4.81	1.35	1.40	0.64	1.19	2.24	1.14	1.06	1.38
CaO	5.16	8.05	3.85	3.89	2.96	3.90	5.19	4.05	4.71	4.29
Na_2O	4.76	3.90	5.17	5.26	4.97	5.03	4.86	5.29	5.23	5.40
K_2O	0.60	0.21	0.60	0.62	0.64	0.44	0.43	0.68	0.70	0.72
P_2O_5	0.31	0.10	0.10	0.10	0.04	0.11	0.31	0.09	0.10	0.10
H_2O+	0.32	0.32	0.32	0.30	0.33	0.37	0.45	0.35	0.43	0.35
H_2O-										
CO_2										
Rest	0.24	0.14	0.12	0.12	0.11	0.12	0.15	0.13	0.13	0.13
Total	98.80	100.07	100.07	99.03	100.45	100.42	99.90	99.60	100.04	100.37
Ba	669	147	303	363	278	225	222	384	320	318
Li	7	5	7	10	10	11	10	9	7	7
Rb	2	1	4	3	4	<1	1	5	5	5
Sr	544	289	283	307	291	321	305	310	310	332
Pb	9	<1	2	3	2	1	2	3	3	2
Th	<1	1	<1	2	5	<1	1	2	<1	1
U	0.5	<0.5	<0.5	<0.5	0.5	0.5	0.5	<0.5	0.5	<0.5
Zr	210	69	174	100	140	225	198	196	214	183
Nb	11	2	4	3	<1	3	13	3	4	4
Y	14	15	6	4	2	6	19	6	9	8
La	37	15	16	15	35	11	25	15	10	13
Ce	60	26	31	26	59	23	51	27	19	26
Nd		13								
Sc	11	24	9	8	5	8	15	7	8	9
V	126	146	39	42	8	30	73	28	31	45
Cr	48	128	16	18	3	13	21	8	6	16
Ni	30	61	7	8	2	5	17	2	4	8
Cu	47	24	12	10	56	13	70	10	14	6
Zn	68	85	48	43	23	46	78	44	42	49
Ga	20	15	18	19	14	19	20	17	19	21
As	0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	0.5
Be	2	1	1	1	1	1	2	1	2	2

Archaean Mossel Gneiss

Sample number	81-257	81-258	81-259	81-260	81-260Vein	81-294	81-331	81285185	81285189	81285196
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Crooked Lake	Lake Stinear	Lake Stinear	S. Tryne Fjord	Luncke Ridge	Zvezda Lake
Rock type	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	68.10	69.40	71.10	71.00	70.40	71.90	67.40	68.40	65.80	67.70
TiO_2	0.42	0.37	0.29	0.34	0.15	0.34	0.26	0.57	0.47	0.51
Al_2O_3	14.88	15.07	14.42	14.67	15.63	13.47	17.84	14.18	16.02	14.56
Fe_2O_3	1.11	1.09	1.04	1.40	0.67	1.25	0.67	0.30	0.46	0.57
FeO	2.78	2.26	1.81	1.42	1.15	1.69	1.39	4.28	3.47	3.80
MnO	0.05	0.04	0.03	0.02	0.01	0.04	0.01	0.07	0.07	0.05
MgO	1.44	1.14	0.97	1.04	1.09	1.00	0.75	2.50	2.76	2.51
CaO	3.99	3.88	3.42	3.69	4.21	2.73	4.64	4.38	5.30	4.39
Na_2O	5.08	5.19	5.17	4.75	4.98	4.58	5.19	3.59	3.58	3.35
K_2O	0.63	0.64	0.71	0.85	0.68	1.71	1.25	0.92	0.55	1.29
P_2O_5	0.10	0.11	0.07	0.09	0.08	0.08	0.10	0.17	0.33	0.03
H_2O+	0.36	0.34	0.28	0.54	0.55	0.32	0.28	0.37	0.40	0.41
H_2O-										
CO_2										
Rest	0.14	0.13	0.12	0.09	0.11	0.14	0.14	0.13	0.19	0.23
Total	99.08	99.66	99.43	99.90	99.71	99.25	99.92	99.86	99.40	99.40
Ba	359	355	326		306	532	320	273	184	884
Li	8	9	9	9	13	7	9	7	9	9
Rb	4	4	6	20	15	23	14	18	5	15
Sr	296	319	318	330	355	179	433	196	454	192
Pb	2	2	2	3	6	2	14	4	16	16
Th	1	<1	<1	1	5	<1	3	1	13	77
U	0.5	<0.5	<0.5	1	<0.5	<0.5	0.5	1	2	2
Zr	194	207	213	213	72	183	187	140	125	251
Nb	4	3	3	2	3	7	4	5	4	6
Y	7	5	5	3	12	22	9	10	11	10
La	17	16	11	18	20	35	26	25	39	94
Ce	34	31	18	31	38	66	44	38	68	137
Nd								17	31	45
Sc	9	8	6	6	10	8	7	8	9	7
V	38	29	18	25	15	25	16	78	89	46
Cr	22	11	3	7	3	6	9	62	261	26
Ni	9	4	<2	<2	<2	2	8	35	42	22
Cu	14	9	10	3	10	2	10	23	21	11
Zn	58	48	38	35	27	36	21	57	65	51
Ga	19	19	16	17	17	14	18	14	18	15
As	<0.5	<0.5	0.5	0.5	0.5	0.5	<0.5	0.5	16	<0.5
Be	1	1	1	2	2	2	2	2	3	1

Archaean Mossel Gneiss

Sample number	81285202	81285203	81285325	81285195	81285197	81-397
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Partizan Island	Partizan Island	Hawker Island	Zvezda Lake	Zvezda Lake	Tryne Crossing
Rock type	Tonalite gneiss	K tonalite gneiss	K tonalite gneiss	Granod. gneiss	Granite gneiss	Granite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn	Mossel Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	69.00	63.20	66.40	71.30	77.70	77.80
TiO_2	0.64	0.29	0.24	0.54	0.19	0.06
Al_2O_3	14.03	18.82	18.73	11.34	11.61	12.05
Fe_2O_3	0.61	0.71	0.23	1.10	0.64	0.24
FeO	3.82	2.20	1.10	4.42	0.75	0.36
MnO	0.08	0.05	0.01	0.08	0.02	0.01
MgO	1.89	1.59	0.78	2.54	0.50	0.48
CaO	4.96	4.92	4.26	2.67	1.44	2.07
Na_2O	3.43	5.26	5.43	2.35	3.55	3.25
K_2O	0.68	1.71	1.79	2.13	3.16	3.05
P_2O_5	0.17	0.10	0.03	0.09	0.03	0.01
H_2O+	0.23	0.30	0.27	0.80	0.36	0.19
H_2O-						
CO_2						
Rest	0.16	0.26	0.21	0.19	0.17	0.23
Total	99.70	99.41	99.48	99.55	100.12	99.80
Ba	341	1052	543	627	661	1592
Li	9	23	10	8	8	5
Rb	6	11	33	58	52	60
Sr	76	577	587	146	154	94
Pb	4	9	22	15	19	13
Th	<1	<1	18	20	18	7
U	0.5	0.5	0.5	1	2	0.5
Zr	207	97	261	163	149	101
Nb	8	2	3	12	4	<1
Y	15	4	4	28	20	<1
La	32	30	57	35	38	25
Ce	50	38	90	54	57	38
Nd	24	13	34	22	19	
Sc	10	6	3	9	2	3
V	55	27	30	84	12	4
Cr	119	96	23	99	66	<3
Ni	105	55	17	29	39	13
Cu	84	21	5	25	18	10
Zn	70	99	19	78	58	7
Ga	15	18	19	14	12	14
As	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Be	1	2	2	2	1	2

Archaean Chelnok Supracrustals

Sample number	81285200	81285201	81285241	81285242	81285243	81285260	81285324	81285363
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Club Lake	Club Lake	Chelnok Lake	Chelnok Lake	Chelnok Lake	Laternula Lake	Zolotov Island	Pintado Island
Rock type	Gt-Op-Kf-Qz-Pl gn	Bi-Op-Gt-Qz-Pl gn	Bi-Gt-Kf-Qz-Pl gn	Gt-Bi-Kf-Pl-Qz gn	Gt-Bi-Pl-Qz-Kf gn	Bi-Gt-Pl-Kf-Qz gn	Gt-Bi-Qz-Kf-Pl gn	Gt-Op-Kf-Pl-Qz gn
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	Chelnok S	Chelnok S	Chelnok S	Chelnok S	Chelnok S	Chelnok S	Chelnok S	Chelnok S
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	66.20	63.00	76.20	71.90	70.70	73.50	60.30	66.40
TiO_2	0.62	0.66	0.40	0.48	0.54	0.42	0.70	0.61
Al_2O_3	13.94	18.23	11.11	11.80	12.01	11.24	16.62	14.86
Fe_2O_3	0.68	0.44	0.41	0.70	0.76	0.14	0.54	0.55
FeO	5.17	4.12	3.25	5.13	4.73	4.80	5.09	4.30
MnO	0.09	0.09	0.05	0.06	0.06	0.05	0.08	0.06
MgO	3.05	2.04	1.36	1.64	2.44	2.07	3.10	2.36
CaO	3.27	4.59	2.04	1.91	0.95	2.15	3.93	3.42
Na_2O	3.96	4.64	3.16	2.66	2.11	2.67	3.02	3.18
K_2O	1.55	1.07	1.39	2.41	4.62	1.78	4.04	3.43
P_2O_5	0.21	0.10	0.06	0.08	0.04	0.07	0.27	0.24
H_2O+	0.32	0.26	0.41	0.63	0.66	0.49	0.63	0.51
H_2O-								
CO_2								
Rest	0.22	0.23	0.20	0.19	0.22	0.14	0.38	0.35
Total	99.28	99.47	100.04	99.59	99.84	99.52	98.70	100.27
Ba	600	266	407	679	775	393	1644	1179
Li	9	2	8	7	11	10	4	12
Rb	25	22	53	70	146	63	123	130
Sr	431	406	195	220	82	94	605	933
Pb	14	17	15	18	33	14	24	18
Th	13	17	22	31	25	17	12	12
U	2	2	2.5	4	3	1.5	2.5	2.5
Zr	194	192	154	159	172	129	191	151
Nb	6	9	9	12	11	8	9	8
Y	18	27	20	31	30	30	14	15
La	41	42	25	58	31	28	37	36
Ce	70	72	41	90	50	46	60	61
Nd	33	29	21	34	21	22	33	28
Sc	9	11	5	6	6	5	11	9
V	97	78	61	71	87	70	113	91
Cr	78	259	304	20	120	96	153	107
Ni	29	159	73	8	49	40	47	38
Cu	16	71	81	15	41	24	28	17
Zn	40	73	71	24	72	49	60	65
Ga	15	19	11	13	13	11	17	15
As	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1	<0.5
Be	2	1	1	1	1	1	3	3

Archaean Crooked Lake Gneiss

Sample number	81285371	81-343	81285173	81285261	81285311	81285167	81285174	81285247	81285250	81285314
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Murphy Rocks	Wyatt Earp Islands	Rybnaya Bay	Brookes Hut	Tryne Islands	Ace Lake	Long Peninsula	Crooked Lake	Lebed Lake	Lake Grace
Rock type	Gabbro gneiss	Diorite gneiss	Diorite gneiss	Diorite gneiss	Qz diorite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss	Tonalite gneiss
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	50.10	52.40	52.70	54.20	55.30	61.90	59.90	66.70	63.50	71.70
TiO_2	1.35	1.01	1.66	1.01	1.54	1.13	1.10	0.60	0.74	0.41
Al_2O_3	15.04	17.39	19.94	18.30	16.79	15.04	18.09	15.45	15.23	14.68
Fe_2O_3	2.41	3.62	1.76	1.41	2.24	3.70	1.49	2.16	2.26	1.03
FeO	9.65	5.01	5.31	7.21	6.48	4.32	3.94	2.57	3.52	1.48
MnO	0.16	0.10	0.09	0.10	0.06	<0.01	0.09	0.04	0.08	0.02
MgO	6.39	4.63	3.26	3.93	3.64	1.53	2.41	1.58	2.18	0.88
CaO	9.72	7.76	7.11	6.68	5.63	5.32	6.44	4.66	5.33	4.20
Na_2O	3.20	4.53	5.07	4.89	4.71	4.45	4.65	5.03	4.96	4.11
K_2O	0.78	1.23	0.65	0.97	1.04	0.88	1.03	0.45	0.80	0.65
P_2O_5	0.16	0.31	0.47	0.53	0.63	0.39	0.21	0.25	0.24	0.07
H_2O+	0.45	0.72	0.38	0.28	0.23	0.29	0.28	0.36	0.49	0.41
H_2O-										
CO_2										
Rest	0.18	0.26	0.22	0.29	0.27	0.24	0.15	0.20	0.20	0.18
Total	99.59	98.97	98.62	99.80	98.56	99.19	99.78	100.05	99.53	99.82
Ba	137	451	401	512	421	334	303	407	494	609
Li	8	9	8	8	6	7	8	6	6	12
Rb	4	19	3	6	6	4	8	1	3	4
Sr	160	762	791	1021	372	390	303	644	490	535
Pb	5	9	7	7	8	8	8	3	6	5
Th	1	<1	2	<1	3	3	3	3	2	1
U	<0.5	<0.5	<0.5	<0.5	1	1.5	0.5	<0.5	1	1
Zr	78	129	38	199	554	545	139	207	183	146
Nb	7	13	10	7	24	6	17	3	6	2
Y	37	66	10	32	31	25	25	13	23	4
La	17	61	37	54	95	45	31	47	42	13
Ce	33	138	60	98	173	83	57	84	74	18
Nd	22		30	57	89	45	27	36	36	6
Sc	34	27	9	14	11	9	11	7	14	4
V	279	147	121	129	114	178	78	68	90	34
Cr	185	50	51	68	34	12	28	10	21	10
Ni	101	37	44	32	24	7	29	11	18	7
Cu	40	17	19	22	33	19	6	13	23	7
Zn	103	94	82	97	105	86	62	60	76	32
Ga	17	20	21	20	21	18	18	16	17	15
As	0.5	<0.5	0.5	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Be	2	4	3	3	2	2	3	1	2	2

Archaean Crooked Lake Gneiss

Sample number	81285315	81-347	81285373	81-346	81285251	81285313	81-83B	81-344	81285175	81285262
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Lake Grace	Lake Grace	Wyatt Earp Islands	Walkabout Rocks	Lebed Lake	Wyatt Earp Islands	Wyatt Earp Islands	Wyatt Earp Islands	Long Peninsula	Camp Lake
Rock type	Tonalite gneiss	K Qz dior. gneiss	K Qz dior. gneiss	Qz monzod. gneiss	Qz monzod. gneiss	Qz monzod. gneiss	Granod. gneiss	Granod. gneiss	Granite gneiss A	Granite gneiss A
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	58.20	57.00	58.50	58.90	57.60	59.50	66.10	62.40	77.10	69.80
TiO_2	1.19	0.76	0.83	0.83	0.87	0.75	0.47	0.85	0.07	0.35
Al_2O_3	16.55	15.51	15.53	15.11	16.39	14.81	14.94	14.56	12.60	14.06
Fe_2O_3	2.30	3.45	2.61	2.61	1.92	2.36	2.30	2.45	0.47	1.23
FeO	5.17	4.52	4.42	4.46	4.42	4.26	1.82	3.32	0.38	1.32
MnO	0.08	0.12	0.10	0.09	0.08	0.08	0.06	0.07	<0.01	0.03
MgO	3.34	4.50	3.84	3.69	4.50	3.78	1.63	3.02	0.25	1.30
CaO	6.20	6.48	6.08	5.69	6.32	5.60	4.01	4.69	1.76	2.73
Na_2O	4.61	4.09	3.96	3.76	4.54	3.97	3.88	3.93	3.15	3.69
K_2O	0.62	1.49	1.70	2.06	1.88	2.37	2.73	1.94	3.91	4.13
P_2O_5	0.28	0.37	0.37	0.33	0.43	0.31	0.20	0.25	0.03	0.17
H_2O+	0.26	0.66	0.42	1.03	0.39	0.24	0.50	0.63	0.15	0.42
H_2O-										
CO_2										
Rest	0.21	0.34	0.30	0.33	0.30	0.33	0.35	0.28	0.24	0.33
Total	99.01	99.29	98.66	98.89	99.64	98.36	98.99	98.39	100.11	99.56
Ba	420	1109	827	1098	789	1172	1690	845	1530	1758
Li	8	8	12	10	11	8	9	14	5	7
Rb	2	21	46	49	37	58	76	70	77	56
Sr	630	764	823	750	856	704	765	653	250	633
Pb	5	10	10	10	8	12	12	12	13	14
Th	<1	1	1	2	1	2	5	3	6	1
U	<0.5	<0.5	1	<0.5	<0.5	1	0.5	<0.5	1	0.5
Zr	115	191	159	200	154	170	169	180	84	109
Nb	6	7	8	6	5	6	5	8	<1	3
Y	14	29	23	19	16	20	10	12	1	7
La	24	59	52	44	42	48	35	48	22	31
Ce	41	107	95	85	82	87	60	84	22	46
Nd	23		46		41	46			9	21
Sc	13	19	11	17	12	13	9	11	<2	2
V	123	127	105	121	115	104	54	100	5	32
Cr	70	136	96	126	137	115	38	104	4	27
Ni	42	52	43	40	61	46	13	40	5	13
Cu	13	25	17	23	20	23	6	20	14	12
Zn	86	90	90	76	55	75	44	67	12	30
Ga	20	19	18	16	17	16	16	15	11	13
As	0.5	0.5	<0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	<0.5
Be	2	3	3	2	2	2	2	2	2	1

Archaean Crooked Lake Gneiss

Sample number	81285192	81-297	81285163	81285194	81-298	81-301	81-302	81-303	81285205	81-299
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Lake Vereteno	Tryne Crossing	Long Fjord	Lake Vereteno	Tryne Crossing	Tryne Crossing	Tryne Crossing	Tryne Crossing	Partizan Island	Tryne Crossing
Rock type	Monzodior. gneiss	Monzonite gneiss	Monzonite gneiss	Monzonite gneiss	Qz monzon. gneiss	Qz monzon. gneiss	Qz monzon. gneiss	Qz monzon. gneiss	Qz monzon. gneiss	Granite gneiss B
Age	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean	Archaean
Additional data	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn	C Lake Gn
Biblio. ref.	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18	15,16,18
SiO_2	49.10	56.20	57.80	52.70	58.90	58.50	56.70	56.40	66.20	68.90
TiO_2	1.70	1.33	0.86	1.32	1.11	1.17	1.19	1.21	0.45	0.55
Al_2O_3	16.61	16.92	17.96	16.66	16.39	16.65	16.16	16.38	15.73	13.84
Fe_2O_3	2.92	1.99	2.52	3.72	2.73	2.35	2.40	2.60	0.82	2.32
FeO	6.73	6.17	3.90	4.85	4.48	4.82	5.82	5.78	2.65	1.68
MnO	0.12	0.11	0.07	0.09	0.10	0.10	0.11	0.12	0.04	0.03
MgO	5.37	2.75	1.98	3.83	1.99	2.01	3.06	3.00	1.25	0.84
CaO	7.70	4.45	3.63	5.50	4.04	4.02	5.05	4.92	2.55	1.56
Na_2O	3.49	4.50	4.87	4.15	4.35	4.50	4.06	3.86	3.68	3.30
K_2O	2.60	3.51	4.38	4.36	3.71	3.88	2.74	3.06	5.26	5.54
P_2O_5	1.25	0.68	0.54	1.05	0.61	0.59	0.68	0.72	0.26	0.25
H_2O+	0.76	0.40	0.52	0.65	0.59	0.48	0.71	0.78	0.35	0.42
H_2O-										
CO_2										
Rest	0.48	0.47	0.41	0.54	0.40	0.43	0.42	0.41	0.35	0.28
Total	98.83	99.48	99.44	99.42	99.40	99.50	99.10	99.24	99.59	99.51
Ba	1592	2197	1592	1803	1840	2000	1720	1703	1510	1202
Li	11	6	6	10	6	5	8	7	12	7
Rb	60	42	54	92	50	56	36	45	80	166
Sr	950	927	783	1174	800	813	936	916	540	212
Pb	8	11	17	15	13	11	7	8	16	18
Th	<1	<1	<1	3	<1	<1	<1	<1	21	27
U	0.5	0.5	1	1	<0.5	<0.5	<0.5	0.5	1.5	<0.5
Zr	179	295	412	504	205	245	239	235	258	303
Nb	18	16	8	14	15	18	12	13	4	10
Y	70	37	31	45	39	38	32	33	13	17
La	117	67	74	113	66	75	61	60	108	87
Ce	248	138	135	210	131	144	121	121	170	154
Nd	146		69	105					58	
Sc	22	15	9	11	13	13	14	15	3	6
V	187	86	72	112	77	72	117	116	27	22
Cr	117	11	44	82	9	10	48	41	43	50
Ni	60	2	16	39	2	2	24	20	29	16
Cu	52	27	23	35	17	20	20	19	6	6
Zn	120	89	82	105	79	79	85	83	29	39
Ga	21	16	18	17	17	16	15	15	15	14
As	0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
Be	3	2	2	3	2	2	2	2	1	2

Archaean Crooked Lake Gneiss

Sample number	81-300
Area	Vestfold Hills
Locality	Tryne Crossing
Rock type	Granite gneiss B
Age	Archaean
Additional data	C Lake Gn
Biblio. ref.	15,16,18
SiO_2	69.50
TiO_2	0.50
Al_2O_3	13.68
Fe_2O_3	2.19
FeO	1.57
MnO	0.03
MgO	0.81
CaO	1.56
Na_2O	3.15
K_2O	5.58
P_2O_5	0.23
H_2O+	0.40
H_2O-	
CO_2	
Rest	0.25
Total	99.45
Ba	1136
Li	7
Rb	160
Sr	203
Pb	19
Th	28
U	1
Zr	294
Nb	10
Y	14
La	73
Ce	133
Nd	
Sc	5
V	19
Cr	3
Ni	<2
Cu	5
Zn	34
Ga	13
As	<0.5
Be	1

Vestfold Block Mafic Intrusives

Sample number	A336-47	A336-232	65280037	81285161	81285166	81285181	A336-168	65280007	81285172	81285231
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Davis	Heidemann Bay	Broad Peninsula	Long Fjord	Ace Lake	Tryne Fjord	Broad Peninsula	Tryne Fjord	Rybnaya Bay	Zvezda Lake
Rock type	High-Mg Ol tholeiite	High-Mg Ol tholeiite	High-Mg Ol tholeiite	High-Mg Ol tholeiite	High-Mg Ol tholeiite	High-Mg Ol tholeiite	High-Mg Qz tholeiite	High-Mg Qz tholeiite	High-Mg Qz tholeiite	High-Mg Qz tholeiite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data										
Biblio. ref.	15,17	15,17	9,15,17	15,17	15,17	15,17	15,17	9,15,17	15,17	15,17
SiO_2	47.80	49.80	51.60	49.70	52.90	50.70	55.40	55.70	52.00	53.90
TiO_2	0.36	0.73	0.54	1.62	0.76	1.69	1.06	0.67	0.51	0.73
Al_2O_3	5.00	13.00	10.59	11.00	8.68	11.58	10.70	11.07	11.59	14.92
Fe_2O_3	5.20	1.86	0.86	2.77	1.41	0.64	1.97	2.15	1.51	0.75
FeO	5.45	7.97	9.21	8.64	9.81	10.34	9.45	8.37	8.48	8.88
MnO	0.18	0.17	0.18	0.16	0.18	0.15	0.16	0.16	0.17	0.16
MgO	22.55	12.30	13.11	10.05	12.31	9.39	7.05	10.67	12.26	6.77
CaO	9.38	10.06	9.45	8.94	9.25	9.14	7.87	7.05	9.02	9.64
Na_2O	0.65	1.35	1.72	3.02	2.32	2.76	2.57	1.48	1.78	1.90
K_2O	0.48	0.39	0.45	0.93	0.79	0.94	1.38	1.14	0.66	0.95
P_2O_5	0.06	0.06	0.07	0.30	0.12	0.35	0.16	0.09	0.08	0.11
H_2O+			0.55	0.77	0.28	0.53		0.53	0.47	0.17
H_2O-			0.06					0.06		
CO_2										
Rest	0.49	0.33	0.33	0.35	0.34	0.31	0.29	0.30	0.29	0.13
Total	97.60	98.02	98.72	98.25	99.15	98.52	98.06	99.44	98.82	99.01
Ba	24	105	179	787	255	531	360	253	210	227
Li				7	6	5			4	7
Rb	26	15	16	23	27	25	49	56	17	41
Sr	14	97	151	448	225	473	237	111	93	112
Pb	1	1	2	12	4	4	9	11	3	7
Th	2	2	1	11	2	4	8	9	5	7
U	0.5	1	<0.5	1.5	1.5	1	2.5	3	1.5	2.5
Zr	28	58	47	117	70	119	155	106	70	91
Nb	1	3	2	27	3	18	8	6	2	4
Y	11	16	12	28	13	24	23	18	16	20
La	4	7	5	39	12	42	27	18	17	19
Ce	9	17	9	70	23	72	49	33	28	32
Nd				42	14	39			13	18
Sc				20	27	20			31	32
V	147	209	191	192	221	190	208	182	197	221
Cr	2580	1420	1280	406	1105	333	646	993	887	33
Ni	447	214	314	332	305	305	148	236	361	20
Cu	19	82	71	77	91	66	115	73	70	11
Zn	88	67	66	119	80	109	92	82	68	60
Ga	4	12	12	15	9	17	14	15	9	14
As	0.5	1	1	2.5	0.5	1.5	4	5	0.5	3
Be				3	1	2			1	2

Vestfold Block Mafic Intrusives

Sample number	81285326	81285361	81285367	81285374	81285368	A336-33	A336-147/B	A336-161	A336-164	A336-220A
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Hawker Island	Hawker Island	Kazak Island	Rybnaya Bay	Kazak Island	Davis	Davis	Heidemann Bay	Broad Peninsula	Ellis Fjord
Rock type	High-Mg Qz tholeiite	High-Mg Qz tholeiite	High-Mg Qz tholeiite	High-Mg Qz tholeiite	Ol Meta-tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data						Group I	Group I	Group I	Group I	Group I
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	56.20	56.20	56.70	52.50	46.00	49.70	50.60	51.60	50.30	51.10
TiO_2	0.77	0.71	0.78	0.52	1.84	2.76	2.75	1.39	2.71	2.66
Al_2O_3	12.93	11.92	12.92	11.88	9.72	12.50	12.60	14.10	12.70	12.20
Fe_2O_3	0.53	0.45	0.46	1.50	1.10	4.32	3.58	3.18	3.62	5.02
FeO	9.65	9.95	9.73	8.56	14.56	11.66	11.46	7.99	11.35	10.00
MnO	0.15	0.16	0.14	0.15	0.19	0.20	0.20	0.16	0.20	0.20
MgO	7.30	9.11	6.98	11.62	13.25	4.38	4.10	6.10	4.20	4.10
CaO	7.98	7.47	7.85	9.24	8.20	8.00	7.77	9.35	7.88	7.74
Na_2O	1.83	1.66	1.54	1.86	1.73	2.32	2.52	2.60	2.55	2.52
K_2O	1.38	1.27	1.44	0.66	0.70	1.38	1.49	0.79	1.42	1.38
P_2O_5	0.12	0.11	0.12	0.08	0.20	0.54	0.61	0.25	0.60	0.56
H_2O+	0.50	0.29	0.54	0.38	0.36					
H_2O-										
CO_2										
Rest	0.22	0.25	0.23	0.28	0.36	0.26	0.26	0.21	0.26	0.26
Total	99.56	99.55	99.43	99.23	98.21	98.02	97.94	97.72	97.79	97.74
Ba	278	273	315	207	140	632	625	381	634	621
Li	10	11	10	5	4					
Rb	64	59	66	17	22	33	33	12	33	31
Sr	113	108	120	98	206	300	302	360	309	301
Pb	11	11	11	4	3	5	6	6	7	7
Th	11	9	10	5	4	4	5	3	4	4
U	2	2	3	1	1	0.5	1.5	0.5	0.5	1
Zr	111	102	118	70	161	222	237	135	225	235
Nb	6	5	5	3	8	17	19	11	18	18
Y	19	19	20	16	26	39	43	24	42	43
La	21	23	22	19	20	35	40	21	40	37
Ce	36	34	42	28	34	68	79	40	73	73
Nd	16	19	21	12	25					
Sc	25	24	23	31	29					
V	214	219	220	200	349	420	394	281	393	393
Cr	380	548	372	819	591	21	19	103	21	21
Ni	129	190	138	373	709	30	30	58	31	30
Cu	61	74	64	71	131	28	24	36	29	26
Zn	72	77	80	73	111	127	137	103	137	134
Ga	15	15	15	11	16	18	18	16	17	17
As	6	5	6.5	0.5	0.5	1	0.5	0.5	<0.5	0.5
Be	2	2	2	1	1					

Vestfold Block Mafic Intrusives

Sample number	A336-220B	A336-231	A336-10C	A336-126	65280048	65280049	81285165	81285170	81285176	81285178
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Ellis Fjord	Heidemann Bay	Lake Dingle	Broad Peninsula		Ellis Fjord	Ace Lake	Rybnaya Bay	Long Peninsula	Long Peninsula
Rock type	Quartz tholeiite	Quartz tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Group I	Group I	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II
Biblio. ref.	15,17	15,17	15,17	15,17	9,15,17	9,15,17	15,17	15,17	15,17	15,17
SiO_2	51.10	52.00	47.70	48.00	47.50	48.00	49.30	49.10	49.50	49.50
TiO_2	2.55	1.46	1.28	1.47	1.64	1.54	1.51	1.56	1.77	1.64
Al_2O_3	12.10	13.40	17.30	15.50	14.27	14.56	14.00	13.13	13.49	13.65
Fe_2O_3	5.34	2.81	2.71	3.20	2.11	2.14	2.01	2.02	1.77	1.45
FeO	9.78	8.69	7.81	8.27	12.22	11.67	10.17	11.93	12.13	11.85
MnO	0.19	0.17	0.18	0.19	0.23	0.22	0.19	0.23	0.22	0.22
MgO	4.26	6.75	7.16	7.46	7.45	7.56	7.18	6.66	6.37	6.57
CaO	7.81	10.10	12.06	11.74	10.99	11.01	11.74	10.97	10.66	10.84
Na_2O	2.81	2.13	1.92	2.00	2.40	2.37	2.55	2.44	2.67	2.57
K_2O	1.38	0.63	0.31	0.33	0.23	0.22	0.32	0.33	0.47	0.42
P_2O_5	0.59	0.20	0.14	0.14	0.13	0.13	0.15	0.15	0.20	0.18
H_2O+					0.45	0.20	0.39	0.25	0.29	0.29
H_2O-					0.04	0.09				
CO_2										
Rest	0.26	0.19	0.17	0.18	0.16	0.16	0.19	0.17	0.17	0.17
Total	98.17	98.53	98.74	98.48	99.82	99.87	99.70	98.94	99.71	99.35
Ba	619	249	82	83	91	92	76	86	126	102
Li							5	5	4	4
Rb	33	14	10	10	5	4	7	8	14	13
Sr	304	266	171	166	135	137	169	143	155	153
Pb	5	2	1	2	1	2	<1	<1	1	1
Th	4	2	2	2	1	1	1	1	1	1
U	0.5	1	0.5	0.5	<0.5	0.5	<0.5	<0.5	1	0.5
Zr	222	115	76	85	72	67	85	81	105	95
Nb	18	10	4	5	4	3	4	4	4	4
Y	41	24	25	27	29	27	27	28	33	31
La	37	17	7	8	6	9	9	9	10	8
Ce	69	35	12	18	11	15	15	14	14	20
Nd							14	11	15	14
Sc							42	38	38	40
V	406	298	229	266	275	265	304	372	331	341
Cr	20	153	369	329	200	209	355	143	138	152
Ni	30	67	65	78	78	80	54	57	38	41
Cu	25	55	64	68	90	76	72	65	46	45
Zn	132	90	73	79	107	101	88	103	107	100
Ga	16	15	16	16	18	19	16	14	18	18
As	1	<0.5	0.5	0.5	1	1	0.5	0.5	1	0.5
Be							1	1	2	2

Vestfold Block Mafic Intrusives

Sample number	81285182	81285186	81285246	81285327	81285233	VH6	VH22	VH27	VH41	VH61
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Tryne Fjord	Luncke Ridge	Crooked Lake	Hawker Island	Zvezda Lake	Lake Dingle	Lake Stinear	Lake Stinear	Lake Dingle	Lookout Lake
Rock type	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite	Olivine tholeiite
Age	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II
Additional data										
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	46.60	50.00	47.60	49.50	46.50	48.10	47.10	49.90	48.30	47.40
TiO_2	2.65	1.88	1.19	2.11	1.20	1.45	1.72	1.65	1.51	1.70
Al_2O_3	13.21	14.20	16.59	13.24	16.02	16.27	15.00	14.23	15.91	15.28
Fe_2O_3	2.56	1.69	2.37	1.59	1.10	1.98	3.11	2.95	2.79	1.82
FeO	14.35	11.63	8.38	12.13	10.58	9.23	11.11	9.70	8.88	11.91
MnO	0.25	0.22	0.17	0.21	0.20	0.18	0.22	0.20	0.19	0.21
MgO	6.13	6.29	7.76	6.28	9.19	7.07	7.56	6.61	7.39	7.52
CaO	9.44	10.90	12.13	10.68	10.99	12.14	10.64	11.26	12.10	10.41
Na_2O	2.64	2.57	2.32	2.56	2.31	2.13	2.37	2.65	2.13	2.29
K_2O	0.63	0.50	0.21	0.54	0.26	0.31	0.29	0.47	0.31	0.33
P_2O_5	0.27	0.18	0.11	0.20	0.14	0.13	0.15	0.16	0.13	0.16
H_2O+	0.50	0.33	0.43	0.52	0.34	0.58	0.70	0.58	0.50	0.72
H_2O-										
CO_2						0.04	0.26	0.18	0.11	0.04
Rest	0.20	0.19	0.16	0.18	0.11	0.18	0.17	0.18	0.18	0.17
Total	99.43	100.58	99.42	99.74	98.94	99.79	100.40	100.72	100.43	99.96
Ba	172	110	48	109	72	87	101	127	96	109
Li	4	7	3	8	10					
Rb	21	19	6	17	5	10	7	15	10	10
Sr	126	147	152	146	202	162	145	154	161	149
Pb	4	1	<1	2	<1	3	2	4	3	3
Th	5	2	1	4	1	1	1	2	2	1
U	1.5	0.5	<0.5	1.5	0.5	0.5	<0.5	1	<0.5	<0.5
Zr	152	119	65	115	73	91	99	117	94	107
Nb	10	5	2	7	4	6	6	7	6	7
Y	46	36	23	37	22	25	29	29	25	31
La	21	13	4	15	6	5	6	10	6	7
Ce	40	23	9	15	10	21	20	26	21	22
Nd	28	18	7	16	13	12	14	16	13	14
Sc	44	41	33	47	30	35	39	41	35	39
V	376	346	246	391	163	264	294	315	266	285
Cr	114	154	223	153	99	302	150	174	305	173
Ni	49	56	121	29	28	72	76	50	75	69
Cu	58	97	100	41	13	75	85	89	69	83
Zn	136	100	74	101	36	78	99	91	82	101
Ga	18	17	14	18	15	19	20	19	20	20
As	1.5	1	0.5	1.5	1	1	1	1.5	2	1.5
Be	2	2	1	1	2	2	2	2	2	1

Vestfold Block Mafic Intrusives

Sample number	A336-5	A336-27	A336-50C	A336-52	A336-53	A336-76	A336-93	A336-106	A336-122	A336-128
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Lake Dingle	Davis	Davis	Davis	Davis	Lake Dingle	Lake Collerson	Broad Peninsula	Broad Peninsula	Broad Peninsula
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Age	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II
Additional data										
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	50.00	50.20	49.50	49.20	49.50	48.90	47.40	49.00	51.10	50.00
TiO_2	1.83	2.64	2.15	2.33	2.20	3.04	2.11	1.30	0.90	0.98
Al_2O_3	13.30	12.50	12.90	12.20	12.30	11.70	13.90	13.40	13.50	13.90
Fe_2O_3	3.37	4.39	3.62	4.29	4.91	3.95	3.81	5.09	2.74	4.04
FeO	10.52	11.52	11.24	11.82	10.68	13.54	10.87	8.99	9.98	8.47
MnO	0.23	0.24	0.24	0.26	0.26	0.28	0.23	0.22	0.21	0.20
MgO	6.30	4.66	5.95	5.82	5.40	5.09	6.56	6.51	6.76	7.68
CaO	10.26	8.58	9.84	10.02	9.66	9.31	9.70	10.46	10.40	11.35
Na_2O	2.24	2.05	2.25	2.14	2.33	1.89	2.21	2.15	2.22	1.98
K_2O	0.50	1.04	0.61	0.42	0.56	0.63	0.58	0.24	0.29	0.11
P_2O_5	0.21	0.35	0.22	0.25	0.31	0.34	0.23	0.13	0.13	0.06
H_2O+										
H_2O-										
CO_2										
Rest	0.18	0.21	0.18	0.19	0.19	0.21	0.18	0.17	0.15	0.15
Total	98.94	98.38	98.70	98.94	98.30	98.88	97.78	97.66	98.38	98.92
Ba	113	245	142	124	159	164	170	76	88	23
Li										
Rb	17	43	22	12	20	20	16	6	7	2
Sr	143	141	146	137	130	145	170	123	127	106
Pb	2	6	3	<1	3	3	3	<1	<1	<1
Th	2	6	2	2	4	4	3	1	2	<1
U	1	1.5	<0.5	1	0.5	1	1	<0.5	<0.5	0.5
Zr	126	217	140	138	167	203	149	55	67	49
Nb	6	13	7	8	9	12	9	3	3	2
Y	42	56	42	49	51	60	38	23	26	19
La	9	26	15	12	19	9	16	5	6	3
Ce	25	46	30	22	37	25	34	6	10	4
Nd										
Sc										
V	377	439	411	461	414	475	316	400	246	318
Cr	153	64	78	76	57	89	128	110	152	210
Ni	47	28	37	40	36	23	37	83	83	97
Cu	86	41	60	92	93	35	47	183	110	130
Zn	101	137	114	124	126	150	109	99	97	82
Ga	17	20	18	19	18	20	19	14	15	15
As	0.5	2	1.5	1.5	1	2	1	0.5	0.5	0.5
Be										

Vestfold Block Mafic Intrusives

Sample number	A336-138B	A336-147	A336-147B	A336-170	A336-188A	A336-188B	A336-188C	65280006	65280035	81285169
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Davis	Davis	Davis	Heidemann Bay	Ellis Fjord	Ellis Fjord	Ellis Fjord	Tryne Fjord	Long Fjord	Rybnaya Bay
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite
Age	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II	Protero Group II
Additional data										
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	9,15,17	9,15,17	15,17
SiO_2	49.50	50.70	50.00	47.30	48.20	48.20	48.20	49.90	48.70	49.40
TiO_2	2.13	0.61	0.78	1.20	2.50	2.69	2.69	1.45	1.45	2.35
Al_2O_3	12.90	14.80	15.20	16.00	11.80	12.10	12.50	13.28	14.31	12.94
Fe_2O_3	4.40	2.78	2.78	2.22	6.76	4.52	5.25	4.00	3.23	3.77
FeO	11.10	8.63	8.47	10.04	11.91	12.50	13.95	11.20	9.17	11.02
MnO	0.23	0.19	0.19	0.20	0.27	0.28	0.33	0.25	0.21	0.15
MgO	5.82	8.13	8.00	8.10	4.68	4.16	5.44	5.62	7.03	5.51
CaO	9.48	11.28	11.38	10.75	8.75	7.87	5.81	10.27	11.89	10.47
Na_2O	2.24	1.79	1.84	2.38	2.43	1.91	1.03	2.39	2.27	2.78
K_2O	0.73	0.14	0.14	0.13	0.60	0.59	0.30	0.25	0.21	0.48
P_2O_5	0.22	0.07	0.05	0.11	0.30	0.34	0.35	0.13	0.12	0.22
H_2O+								0.75	1.03	0.31
H_2O-								0.04	0.05	
CO_2										
Rest	0.20	0.17	0.17	0.14	0.20	0.22	0.22	0.17	0.17	0.20
Total	98.95	99.29	99.00	98.57	98.40	95.38	96.07	99.70	99.84	99.60
Ba	173	25	26	22	169	174	153	110	65	121
Li										4
Rb	31	3	3	1	21	18	9	3	7	16
Sr	157	95	96	157	133	198	146	114	150	169
Pb	4	<1	<1	<1	4	5	3	15	<1	2
Th	4	<1	1	<1	4	4	3	<1	<1	4
U	1	0.5	0.5	<0.5	0.5	0.5	1	<0.5	<0.5	1
Zr	159	42	42	63	170	190	196	86	77	148
Nb	10	2	1	1	9	11	11	3	3	9
Y	45	17	17	25	57	61	63	31	28	40
La	22	2	3	<2	16	18	23	5	6	19
Ce	39	4	6	4	33	36	41	9	11	28
Nd										23
Sc										43
V	410	274	267	198	450	500	546	355	294	400
Cr	138	423	431	261	27	21	26	108	264	105
Ni	52	111	112	95	28	28	32	60	73	53
Cu	64	105	104	69	101	112	111	143	114	124
Zn	112	83	81	83	148	159	163	175	87	107
Ga	19	14	14	17	18	20	21	17	19	16
As	2	0.5	<0.5	0.5	1	1	1	0.5	1	1
Be										2

Vestfold Block Mafic Intrusives

Sample number	81285177	81285187	81285254	81285264	81285369	VH3	VH103	VH111	VH135	81285257
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Long Peninsula	Luncke Ridge	Ellis Fjord	Camp Lake	Heidemann Bay	Lake Dingle	Barrier Island	Tryne Crossing	Club Lake	Laternula Lake
Rock type	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Meta-tholeiite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	48.50	50.40	49.80	50.00	49.40	49.80	50.40	49.70	49.30	49.80
TiO_2	2.82	2.17	1.73	1.77	2.33	2.20	1.39	1.94	2.13	2.37
Al_2O_3	12.53	12.60	14.06	14.75	12.53	13.10	14.23	13.37	12.89	12.73
Fe_2O_3	4.45	2.50	1.98	2.63	2.01	3.01	2.11	2.87	2.78	0.81
FeO	11.79	12.21	10.90	10.26	13.00	11.57	11.14	10.93	12.16	14.07
MnO	0.25	0.24	0.20	0.20	0.22	0.23	0.21	0.22	0.23	0.23
MgO	5.34	5.44	6.30	5.86	5.56	5.86	6.50	5.78	6.03	5.76
CaO	9.13	9.52	11.15	10.86	9.86	10.34	10.99	10.37	10.27	10.13
Na_2O	2.93	2.83	2.37	2.37	2.51	2.37	2.27	2.32	2.24	2.51
K_2O	0.62	0.71	0.48	0.54	0.64	0.53	0.16	0.58	0.46	0.62
P_2O_5	0.32	0.22	0.18	0.18	0.23	0.20	0.11	0.17	0.21	0.24
H_2O+	0.25	0.46	0.32	0.41	0.44	0.86	0.56	1.41	0.68	0.49
H_2O-										
CO_2						0.15	0.22	0.40	0.51	
Rest	0.21	0.18	0.17	0.16	0.20	0.20	0.17	0.18	0.20	0.20
Total	99.14	99.48	99.64	99.99	98.93	100.42	100.46	100.24	100.09	99.96
Ba	127	146	95	118	135	131	46	154	132	135
Li	6	6	7	5	8					12
Rb	24	28	17	21	24	19	3	22	14	28
Sr	154	143	164	169	138	140	107	160	128	138
Pb	3	3	2	2	4	4	<1	4	3	2
Th	4	4	3	2	3	2	<1	2	2	3
U	1.5	1	0.5	0.5	0.5	0.5	<0.5	<0.5	0.5	0.5
Zr	198	149	107	111	148	150	75	130	141	138
Nb	8	7	5	5	7	9	5	7	8	7
Y	56	43	31	31	44	40	25	33	40	43
La	16	15	12	11	15	11	3	12	10	13
Ce	33	29	18	22	27	31	15	30	31	27
Nd	27	22	16	16	26	19	10	17	18	23
Sc	42	41	42	40	48	46	41	40	44	48
V	414	395	335	328	447	396	360	361	386	443
Cr	49	37	115	97	75	116	138	99	168	116
Ni	50	28	36	26	45	47	78	34	39	41
Cu	103	69	68	45	55	92	118	59	97	63
Zn	129	116	95	94	124	113	97	101	113	110
Ga	18	18	15	17	17	22	18	22	22	18
As	1.5	1	1.5	1.5	1	2	1	2	2	2
Be	2	2	1	1	2	2	1	2	2	1

Vestfold Block Mafic Intrusives

Sample number	81285320	81285323	81285362	A336-167	VH34	A336-18	A336-138	VH8	VH51	81285358
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Laternula Lake	Zolotov Island	Hawker Island	Broad Peninsula	Deep Lake	Davis	Davis	Davis	Lake Dingle	Redfearn Island
Rock type	Meta-tholeiite	Meta-tholeiite	Meta-tholeiite	Olivine tholeiite	Olivine tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Quartz tholeiite	Olivine tholeiite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Group II	Group II	Group II	Group III	?Group III	Group III	Group III	Group III	Group III	
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	48.90	48.70	48.50	44.90	48.20	48.40	49.60	49.00	49.30	48.00
TiO_2	1.73	1.81	2.07	2.60	2.26	2.26	2.30	2.46	2.39	1.49
Al_2O_3	13.23	13.70	12.91	13.70	13.81	12.70	12.80	12.99	13.18	14.30
Fe_2O_3	1.13	1.12	1.20	3.20	2.67	3.96	4.80	3.09	3.59	3.06
FeO	12.36	11.97	13.55	13.46	12.65	10.93	10.54	11.80	11.46	8.82
MnO	0.22	0.21	0.23	0.24	0.24	0.24	0.24	0.23	0.23	0.17
MgO	6.99	6.99	6.05	6.69	6.32	6.02	5.41	5.82	5.58	10.14
CaO	11.84	11.24	10.95	9.16	10.03	9.87	9.29	10.19	9.72	10.94
Na_2O	2.39	2.26	2.77	2.24	2.36	2.22	2.27	2.31	2.31	1.96
K_2O	0.31	0.64	0.35	0.46	0.60	0.98	0.79	0.74	0.75	0.41
P_2O_5	0.17	0.19	0.19	0.36	0.25	0.32	0.26	0.32	0.24	0.15
H_2O+	0.47	0.50	0.24		0.69			0.60	0.86	0.50
H_2O-										
CO_2					0.26			0.22	0.18	
Rest	0.20	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.22	0.20
Total	99.94	99.52	99.20	97.20	100.54	98.10	98.50	99.98	100.01	100.14
Ba	74	109	82	188	194	246	186	247	191	66
Li	17	5	7							4
Rb	8	20	9	14	18	26	33	25	32	9
Sr	132	146	159	145	164	130	159	127	152	239
Pb	1	9	<1	3	4	4	4	5	5	<1
Th	1	1	2	2	3	3	4	3	5	1
U	<0.5	0.5	1.5	1	0.5	0.5	1.5	0.5	1	0.5
Zr	92	97	103	174	178	175	171	195	181	79
Nb	5	6	5	14	12	13	13	17	14	5
Y	34	33	35	49	39	54	48	50	44	18
La	8	9	13	19	19	22	20	23	20	8
Ce	16	15	19	42	44	49	37	51	49	14
Nd	15	20	16		25			28	26	16
Sc	50	47	47		43			42	44	33
V	343	349	397	324	352	341	427	345	442	267
Cr	303	202	98	98	123	132	91	131	126	336
Ni	59	70	52	72	40	38	45	45	50	205
Cu	109	92	109	64	64	53	57	56	69	45
Zn	97	97	117	146	114	119	110	125	117	85
Ga	17	17	20	20	22	17	18	21	21	14
As	<0.5	2	0.5	0.5	2	0.5	2	1.5	3	1
Be	1	2	1		2			2	2	1

Vestfold Block Mafic Intrusives

Sample number	81285360	A336-147A	VH14	81285160	A336-89	81285162	81285168	A336-154	VH110	VH121
Area	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills	Vestfold Hills
Locality	Hawker Island	Davis	Davis	Long Fjord	Lake Collerson	Long Fjord	Rybnaya Bay	Davis	Pioneer Crossing	Tryne Crossing
Rock type	Olivine tholeiite	Quartz tholeiite	Quartz tholeiite	Trachy-basalt	Alkali Ol basalt	Alkali Ol basalt	Alkali Ol basalt	Ankaramite	Ankaramite	Ankaramite
Age	Protero	Protero	Protero							
Additional data										
Biblio. ref.	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17	15,17
SiO_2	47.50	54.70	50.10	43.70	48.50	39.80	40.10	43.80	40.20	43.30
TiO_2	1.59	1.18	1.89	4.01	1.05	4.33	3.70	2.36	3.80	2.30
Al_2O_3	14.08	14.70	13.02	11.07	11.90	6.13	7.40	6.16	7.66	6.72
Fe_2O_3	0.98	2.45	3.24	4.39	3.06	4.96	3.31	3.35	4.36	3.78
FeO	10.85	7.80	11.26	8.88	6.13	8.92	10.54	9.49	10.47	9.28
MnO	0.18	0.15	0.20	0.16	0.14	0.17	0.17	0.17	0.18	0.17
MgO	9.74	6.00	5.72	7.13	10.79	16.57	14.73	18.78	13.21	17.39
CaO	10.95	7.35	9.74	7.79	9.05	8.48	9.02	8.88	10.20	8.99
Na_2O	2.01	2.91	2.33	3.14	2.42	1.39	1.93	1.54	1.00	1.71
K_2O	0.48	0.46	0.66	3.91	3.31	2.83	2.31	1.53	2.10	1.41
P_2O_5	0.15	0.27	0.24	1.30	0.73	0.54	0.46	0.46	0.42	0.50
H_2O+	0.40		0.60	0.96	1.20	1.49	1.45	1.40	1.90	1.71
H_2O-				0.14	0.19	0.11	0.13	<0.10		
CO_2			0.26	2.45	0.27	2.66	4.09	2.04	3.74	2.05
Rest	0.20	0.19	0.22	0.66	0.51	0.55	0.49	0.54	0.48	0.49
Total	99.11	98.16	99.48	99.69	99.25	98.93	99.83	100.50	99.72	99.80
Ba	80	153	333	1477	1344	1098	1066	871	1056	837
Li	4			12		6	2			
Rb	10	12	15	90	146	82	69	40	74	39
Sr	239	189	201	1763	917	710	647	607	576	649
Pb	<1	5	4	18	7	5	5	5	6	10
Th	<1	6	3	17	6	6	4	4	6	5
U	<0.5	1.5	0.5	3.5	1.5	1.5	1.5	1	1.5	1.5
Zr	83	186	141	591	182	284	253	211	220	191
Nb	5	15	9	93	12	56	62	37	76	46
Y	19	27	34	43	27	18	20	19	20	20
La	7	26	14	158	59	60	54	41	45	59
Ce	13	42	39	284	112	107	96	82	88	109
Nd	16		21	146		63	54		44	51
Sc	36		37	15		20	18		23	17
V	286	167	396	169	156	262	255	210	328	213
Cr	312	312	110	156	676	646	522	1110	549	679
Ni	187	127	57	166	262	667	485	676	394	700
Cu	53	49	84	51	84	73	72	70	122	80
Zn	86	103	113	143	107	110	115	110	115	107
Ga	16	16	19	21	13	12	15	12	19	17
As	0.5	1.5	2	1.5	0.5	2.5	1	0.5	1.5	3.5
Be	1		2	6		3	3		2	2

401

Late Proterozoic Felsic Gneisses

Sample number	81285103	81285115	81285119	81285120	81285124	81285125	81285127	81285131	81285133	81285143
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Filla Island	SE Rauer Group	Torckler Island	E Rauer Group	Hop Island	Hop Island	E of Hop Island	S of Hop Island	Torckler Island	NE Rauer Group
Rock type	Bi-Op-Qz-Pl gneiss	Ol-Op-Cp granite gn	Op-Kf-Qz-Pl gneiss	Op-Cp-Qz-Pl gneiss	Cp-Qz-Op-Pl gneiss	Op-Qz-Pl-Kf gneiss	Bi-Op-Qz-Pl gneiss	Op-Kf-Qz-Pl gneiss	Op granite gneiss	Hb-Pl-Qz-Kf gneiss
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op	Rauer Op
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	62.60	62.20	68.90	74.10	50.30	72.00	58.00	69.40	71.10	69.80
TiO_2	1.06	0.53	0.65	0.51	1.73	0.34	1.08	0.36	0.32	0.80
Al_2O_3	16.50	15.84	14.26	12.05	17.00	13.88	18.20	15.25	14.68	13.02
Fe_2O_3	0.78	2.59	0.61	1.06	0.18	0.67	0.84	0.96	0.57	2.00
FeO	4.66	4.83	2.81	1.21	11.06	1.25	5.59	1.65	1.80	2.28
MnO	0.12	0.17	0.05	0.05	0.18	0.03	0.08	0.05	0.03	0.08
MgO	2.57	0.36	1.38	0.54	5.04	0.87	2.76	1.16	0.81	0.68
CaO	5.18	3.34	3.19	1.49	8.90	2.17	5.77	3.13	2.84	1.73
Na_2O	4.08	4.02	3.49	3.56	1.70	2.03	3.78	3.38	4.11	3.65
K_2O	1.21	5.18	3.23	5.14	1.14	6.11	1.62	3.66	3.06	5.00
P_2O_5	0.40	0.12	0.16	0.10	0.96	0.15	0.25	0.09	0.08	0.15
H_2O+	0.54	0.44	0.44	0.48	0.31	0.35	0.64	0.42	0.29	0.34
H_2O-										
CO_2										
Rest	0.26	0.44	0.34	0.20	0.45	0.49	0.24	0.22	0.25	0.27
Total	99.96	100.06	99.51	100.49	98.95	100.34	98.85	99.73	99.94	99.80
Ba	905	1448	1750	746	1635	3128	674	884	1183	950
Li	22	12	12	4	9	14	16	24	14	5
Rb	29	172	86	140	39	192	83	104	82	125
Sr	506	189	462	86	776	373	493	460	401	80
Pb	7	27	12	7	9	39	8	23	14	12
Th	1	13	18	2	7	20	5	3	10	9
U	<0.5	1.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
Zr	153	1047	181	375	236	130	209	109	174	529
Nb	19	38	3	17	15	3	8	2	4	22
Y	28	97	8	45	38	4	12	3	4	63
La	28	106	50	43	122	68	43	34	34	70
Ce	58	197	71	72	215	108	73	48	48	121
Nd	34	101	24	38	101	43	30	18	17	59
Sc	17	4	6	3	35	3	17	5	2	5
V	90	3	54	12	255	45	113	39	19	20
Cr	53	4	27	6	32	15	46	22	11	15
Ni	26	2	13	6	8	5	14	8	4	7
Cu	19	10	34	11	19	5	20	5	4	18
Zn	97	154	40	23	131	32	93	50	47	71
Ga	22	29	14	13	21	12	24	19	18	15
As	<0.5	1	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Be	2	4	1	2	3	1	3	2	2	3

201

Late Proterozoic Felsic Gneisses

Sample number	81285275	81285389	81285391	81285392	81285395	81285104	81285110	81285112	81285114	81285118
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Bolingen Islands	Svarthausen Ntk	Svarthausen Ntk	Caroline Mikkelsen	Boyd Ntk	Filla Island	E of Filla Island	E of Filla Island	SE Rauer Group	Torckler Island
Rock type	Op-Bi-Qz-Pl gneiss	Hb-Cp-Op-Qz-Pl gn	Hb-Op-Kf-Qz-Pl gn	Hb-Op-Qz-Pl gneiss	Cp-Op-Qz-Pl gneiss	Gt-Pl-Qz-Kf gneiss	Gt-Kf-Qz-Pl gneiss	Gt-Bi-Qz-Pl-Kf gn	Op-Gt granite gn	Gt-Bi-Pl-Qz-Kf gn
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Prydz Op	Prydz Op	Prydz Op	Prydz Op	Prydz Op	Rauer Gt	Rauer Gt	Rauer Gt	Rauer Gt	Rauer Gt
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	62.50	62.80	67.60	65.90	62.50	74.20	72.30	74.00	65.90	72.40
TiO_2	0.78	0.70	0.50	0.64	0.58	0.13	0.34	0.37	0.35	0.36
Al_2O_3	16.44	15.59	14.31	15.15	15.05	13.61	14.42	12.69	15.89	13.37
Fe_2O_3	0.85	2.47	1.11	1.69	1.72	0.44	0.22	0.43	2.10	0.59
FeO	4.80	4.06	4.48	4.50	4.90	1.17	1.72	2.22	2.55	2.18
MnO	0.08	0.11	0.09	0.08	0.04	0.04	0.03	0.05	0.11	0.05
MgO	2.96	2.23	1.57	2.07	3.10	0.35	0.71	0.79	0.23	0.88
CaO	5.46	6.38	4.92	5.67	6.74	1.54	2.29	1.76	2.30	2.15
Na_2O	2.96	2.71	2.84	2.29	2.58	3.87	3.78	2.43	3.42	2.66
K_2O	1.51	1.47	2.22	1.57	2.04	4.13	3.26	4.72	5.82	4.31
P_2O_5	0.26	0.16	0.09	0.15	0.17	0.10	0.07	0.10	0.06	0.11
H_2O+	0.59	0.24	0.27	0.26	0.31	0.36	0.47	0.54	0.49	0.42
H_2O-										
CO_2										
Rest	0.24	0.18	0.17	0.23	0.21	0.16	0.17	0.15	0.37	0.16
Total	99.43	99.10	100.17	100.20	99.94	100.10	99.78	100.25	99.59	99.64
Ba	794	610	620	1008	699	800	675	605	1082	464
Li	12	11	12	7	14	13	16	15	14	17
Rb	83	36	58	42	62	79	76	164	173	211
Sr	431	323	195	372	303	161	231	89	134	91
Pb	8	10	17	6	12	25	41	24	27	35
Th	1	1	1	1	2	12	18	14	33	37
U	0.5	<0.5	0.5	<0.5	1	1	1	0.5	2.5	2
Zr	207	102	100	118	70	95	159	129	626	143
Nb	7	4	8	4	4	7	4	5	29	10
Y	8	18	32	21	20	12	7	24	104	17
La	29	19	22	26	20	18	31	23	200	48
Ce	47	34	45	47	38	32	50	46	360	84
Nd	21	20	26	28	25	16	18	20	170	33
Sc	14	20	21	24	20	2	2	3	2	4
V	117	116	90	104	129	8	18	31	1	34
Cr	69	12	12	22	105	6	5	12	<3	19
Ni	38	10	8	11	50	2	3	5	<2	5
Cu	3	24	6	11	51	4	4	9	6	5
Zn	65	65	79	69	70	36	25	32	109	47
Ga	17	13	14	14	14	15	13	12	29	14
As	0.5	<0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Be	3	2	3	3	3	2	1	1	4	2

Late Proterozoic Felsic Gneisses

Sample number	81285123	81285128	81285134	81285135	81285138	81285145	81285156	81285158	81285207	81285211
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Hop Island	E of Hop Island	Torckler Island	Torckler Island	S of Hop Island	Brattstrand Bluffs	Chaos Glacier	Chaos Glacier	Steinnes	Larsemann Hills NE
Rock type	Gt-Bi-Qz-Pl-Kf gn	Gt-Op-Bi-Qz-Pl gn	Bi-Gt granite gn	Bi-Gt-Pl-Qz-Kf gn	Bi-Gt-Kf-Qz-Pl gn	Bi-Gt-Pl-Qz-Kf gn	Gt-Pl-Kf-Qz gneiss	Bi-Op-Gt-Qz-Pl gn	Gt-Bi-Kf-Qz-Pl gn	Gt-Bi-Qz-Pl-Kf gn
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Rauer Gt	Rauer Gt	Rauer Gt	Rauer Gt	Rauer Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	70.20	58.70	71.70	73.60	58.40	73.50	71.20	54.00	73.60	71.70
TiO_2	0.76	0.96	0.43	0.35	1.34	0.23	0.52	1.31	0.18	0.43
Al_2O_3	14.90	18.97	13.63	12.96	18.56	13.00	14.46	19.20	13.81	13.46
Fe_2O_3	0.37	1.14	0.77	0.35	0.60	0.30	0.25	0.30	0.11	0.29
FeO	1.19	5.11	2.06	2.20	8.36	1.80	2.50	9.61	1.27	3.05
MnO	0.02	0.09	0.05	0.05	0.16	0.01	0.02	0.20	0.03	0.07
MgO	0.77	3.04	0.88	0.81	2.84	0.83	0.85	4.00	0.52	1.31
CaO	2.01	5.41	2.17	2.12	2.79	1.30	1.71	7.31	1.92	1.79
Na_2O	2.19	3.54	2.50	2.69	3.01	1.97	2.70	1.97	3.23	2.58
K_2O	6.34	2.03	4.96	3.81	3.24	5.42	4.98	0.90	4.28	4.08
P_2O_5	0.13	0.25	0.11	0.08	0.06	0.08	0.06	0.29	0.05	0.05
H_2O+	0.30	0.56	1.11	0.18	0.48	0.36	0.47	0.72	0.44	0.30
H_2O-										
CO_2										
Rest	0.43	0.26	0.19	0.21	0.31	0.23	0.26	0.21	0.19	0.18
Total	99.61	100.06	100.56	99.41	100.15	99.03	99.98	100.02	99.63	99.29
Ba	1578	775	770	1052	1011	980	890	534	512	444
Li	13	18	11	14	12	12	5	7	19	6
Rb	213	96	186	107	123	234	127	44	186	163
Sr	285	570	131	221	308	164	219	285	130	185
Pb	62	11	30	19	22	48	61	6	66	37
Th	186	8	15	6	12	23	88	1	24	5
U	3.5	<0.5	<0.5	0.5	1	2	2	0.5	1.5	0.5
Zr	475	147	161	154	308	178	299	176	136	121
Nb	7	9	8	3	20	2	7	12	5	8
Y	5	5	21	23	22	10	12	43	11	24
La	189	56	49	25	39	59	109	34	53	23
Ce	375	88	83	40	61	106	180	58	94	40
Nd	159	32	35	19	26	41	59	32	33	14
Sc	<2	14	4	3	17	2	2	35	2	5
V	41	107	34	25	194	31	31	184	15	64
Cr	10	75	11	11	122	22	8	34	139	205
Ni	20	12	3	4	30	11	6	34	37	56
Cu	21	14	5	3	23	9	9	20	16	4
Zn	32	100	37	24	81	33	40	99	80	53
Ga	14	25	14	13	22	10	18	21	16	15
As	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5	<0.5
Be	1	4	2	1	1	2	1	3	2	5

Late Proterozoic Felsic Gneisses

Sample number	81285223	81285229	81285269	81285272	81285276	81285291	81285295	81285298	81285300	81285302
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Larsemann Hills E	Larsemann Hills SE	Sostrene Islands	Bolingen Islands	Bolingen Islands	Larsemann Hills SW,	Larsemann Hills SW	Larsemann Hills W	Larsemann Hills W	Larsemann Hills W
Rock type	Gt-Bi-Kf-Pl-Qz gn	Gt-Bi-Qz-Kf-Pl gn	Gt-Pl-Qz-Kf gneiss	Gt-Pl-Kf-Qz gneiss	Gt-Kf-Qz-Pl gneiss	Bi-Gt-Qz-Kf-Pl gn	Gt-Bi-Pl-Qz-Kf gn	Gt-Bi granite gn	Bi-Gt-Pl-Qz-Kf gn	Bi-Gt-Qz-Pl-Kf gn
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	76.30	60.40	74.10	77.40	72.90	74.70	68.40	73.50	70.80	70.10
TiO_2	0.41	1.23	0.17	0.26	0.07	0.20	0.55	0.24	0.70	0.53
Al_2O_3	11.06	17.74	14.36	10.82	14.65	13.39	15.21	12.82	13.96	13.94
Fe_2O_3	1.00	1.44	0.29	0.22	0.16	0.10	0.27	0.78	0.89	0.44
FeO	1.98	4.93	1.15	1.36	2.87	2.63	4.16	1.98	3.41	3.21
MnO	0.03	0.06	0.02	0.01	0.07	0.06	0.04	0.03	0.14	0.04
MgO	1.14	3.43	0.25	0.52	0.67	0.57	0.90	0.45	0.99	1.03
CaO	1.48	4.10	2.67	0.37	2.92	2.62	1.01	1.22	1.69	1.82
Na_2O	2.42	2.03	3.13	2.03	3.28	3.26	2.17	2.33	2.61	2.37
K_2O	3.03	3.08	3.49	5.80	1.95	2.01	6.38	4.85	4.70	5.36
P_2O_5	0.07	0.34	0.15	0.04	0.05	0.05	0.09	0.09	0.19	0.21
H_2O+	0.20	0.70	0.30	0.48	0.42	0.31	0.60	0.50	0.28	0.49
H_2O-										
CO_2										
Rest	0.15	0.32	0.23	0.24	0.16	0.15	0.22	0.16	0.18	0.20
Total	99.27	99.80	100.31	99.55	100.17	100.05	100.00	98.95	100.54	99.74
Ba	249	1269	1252	1132	480	428	880	460	441	746
Li	8	9	12	9	7	10	10	11	19	13
Rb	179	222	84	209	53	59	305	232	221	249
Sr	84	221	289	95	235	247	88	67	63	118
Pb	6	29	32	43	30	26	21	38	22	22
Th	43	51	1	25	11	23	34	44	43	11
U	3.5	1.5	0.5	1.5	1	2	1	0.5	1.5	1
Zr	197	276	92	285	206	192	150	166	289	219
Nb	9	17	1	7	<1	3	7	1	9	14
Y	34	18	26	18	27	21	22	24	67	16
La	37	65	39	43	36	45	44	48	47	30
Ce	73	130	61	78	66	84	83	94	84	55
Nd	33	60	21	35	27	32	37	38	37	25
Sc	5	12	3	<2	7	6	5	6	11	4
V	47	176	13	7	13	14	57	17	49	37
Cr	87	13	3	<3	7	4	32	15	22	20
Ni	41	7	3	2	5	3	16	6	5	6
Cu	13	14	6	16	7	4	14	17	14	9
Zn	58	36	10	32	65	24	29	31	16	44
Ga	14	20	12	11	14	12	13	12	10	16
As	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	0.5
Be	3	2	1	1	1	1	1	2	2	2

Late Proterozoic Felsic Gneisses

Sample number	81285306	81285330	81285341	81285346	81285401	81285405	81285383	81285385	81285388
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Larsemann Hills N	Svenner Is SW	Svenner Is NE	Brattstrand Bluffs	Dodd Island	Stein Island	Strover Peak	NW of Car. Mikkelsen	NE of Car. Mikkelsen
Rock type	Bi-Gt-Kf-Qz-Pl gn	Gt-Bi-Qz-Pl gneiss	Bi-Gt-Pl-Qz-Kf gn	Si-Gt-Pl-Qz-Kf gn	Bi-Gt-Pl-Qz-Kf gn	Gt-Si-Pl-Kf-Qz gn	Bi-Gt-Pl-Qz-Kf gn	Bi-Gt-Pl-Qz-Kf gn	Bi-Gt-Kf-Pl-Qz gn
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt	Prydz Gt
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	64.40	64.40	68.60	73.60	72.60	74.60	72.70	73.60	72.90
TiO_2	1.03	0.92	0.72	0.10	0.25	0.02	0.33	0.66	0.34
Al_2O_3	14.79	16.51	14.73	14.28	14.46	14.91	14.10	12.13	13.65
Fe_2O_3	0.41	0.30	0.22	0.10	0.13	0.14	0.40	0.55	0.19
FeO	8.84	5.45	3.27	1.05	2.00	0.32	2.30	3.82	2.44
MnO	0.12	0.07	0.02	0.03	0.03	<0.01	0.05	0.04	0.05
MgO	2.61	2.09	0.95	0.40	0.66	<0.10	0.86	1.28	1.17
CaO	2.85	3.75	1.79	1.05	1.83	1.74	2.61	1.09	3.09
Na_2O	1.96	2.81	2.49	2.91	2.51	3.17	2.26	1.89	2.04
K_2O	1.84	2.45	5.30	5.26	5.43	5.20	3.92	4.46	3.20
P_2O_5	0.04	0.19	0.16	0.18	0.04	0.07	0.05	0.11	0.04
H_2O+	0.33	0.41	0.56	0.39	0.25	0.23	0.36	0.38	0.38
H_2O-									
CO_2									
Rest	0.26	0.23	0.44	0.14	0.25	0.16	0.21	0.18	0.24
Total	99.48	99.58	99.25	99.49	100.44	100.56	100.15	100.19	99.73
Ba	546	794	1960	625	1262	917	924	606	1230
Li	14	15	11	12	11	21	10	7	7
Rb	82	147	164	225	188	162	122	168	128
Sr	102	160	356	130	272	164	205	103	215
Pb	7	23	47	47	40	58	34	32	34
Th	47	29	101	2	18	<1	31	22	28
U	1	1	1	0.5	0.5	0.5	1	1	1
Zr	459	165	470	38	136	24	120	215	99
Nb	13	13	10	1	1	<1	3	11	8
Y	70	21	11	7	12	5	20	18	16
La	78	66	162	19	35	15	40	32	44
Ce	136	119	265	35	58	21	73	61	81
Nd	55	50	87	14	21	6	32	26	35
Sc	23	9	3	<2	4	<2	6	5	6
V	171	98	47	5	28	4	35	82	32
Cr	97	43	<3	<3	11	<3	18	42	18
Ni	36	13	<2	<2	2	<2	20	11	17
Cu	10	14	12	3	5	4	9	12	8
Zn	47	79	43	11	26	7	28	43	31
Ga	14	19	17	12	14	13	13	14	14
As	0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5
Be	1	2	1	2	3	2	1	1	1

Late Proterozoic Mafic Granulites

Sample number	81285107	81285116	81285140	81285141
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	N of Filla Island	SE Rauer Group	NE Rauer Group	NE Rauer Group
Rock type	Hb-Px-Pl granulite	Px-Hb-Pl granulite	Hb-Px-Pl granulite	Px-Hb-Pl granulite
Age	Protero	Protero	Protero	Protero
Additional data	Metadyke	Metadyke	Metadyke	Metadyke
Biblio. ref.	13,15,18	13,15,18	13,15,18	13,15,18
SiO_2	46.20	46.70	48.00	48.20
TiO_2	2.05	0.77	1.86	1.68
Al_2O_3	14.32	15.84	13.65	13.35
Fe_2O_3	2.37	1.37	1.79	2.10
FeO	11.93	10.34	11.63	11.71
MnO	0.23	0.18	0.22	0.23
MgO	7.27	8.14	6.54	6.70
CaO	11.27	11.36	11.19	11.22
Na_2O	1.98	2.42	2.50	2.90
K_2O	0.19	0.55	0.31	0.53
P_2O_5	0.21	0.07	0.19	0.16
H_2O+	0.86	0.66	0.82	0.75
H_2O-				
CO_2				
Rest	0.19	0.14	0.19	0.18
Total	99.07	98.54	98.89	99.71
Ba	23	54	47	65
Li	9	12	16	13
Rb	1	9	4	8
Sr	182	105	135	147
Pb	<1	6	2	14
Th	<1	2	1	1
U	<0.5	3	0.5	0.5
Zr	95	32	106	92
Nb	5	4	5	3
Y	34	22	38	32
La	5	16	7	7
Ce	15	25	12	12
Nd	14	13	14	14
Sc	44	39	48	48
V	340	219	391	368
Cr	218	199	167	149
Ni	108	100	69	55
Cu	117	48	138	115
Zn	103	104	101	113
Ga	19	13	15	16
As	0.5	<0.5	1.5	0.5
Be	1	1	1	1

Late Proterozoic Metasediments

Sample number	81285147	81285148	81285155	81285208	81285214	81285218	81285219	81285224	81285228	81285270
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Hovde Island	Hovde Island	Cowell Island	Steinnes	Larsemann Hills NE	Larsemann Hills NE	Larsemann Hills NE	Larsemann Hills E	Larsemann Hills SE	Bolingen Islands
Rock type	Sp-Si-Gt-Cd pelite	Si-Gt-Cd pelite	Sp-Si-Gt-Cd pelite	Si-Gt-Cd pelite	Bi-Cd pelite	Cd-Bi-Gt pelite	Bi-Si-Cd-Gt pelite	Sp-Cd pelite	Si-Gt-Cd pelite	Bi-Si-Gt pelite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data										
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	52.60	69.50	59.70	62.30	73.30	48.70	43.80	55.50	70.10	52.80
TiO_2	1.22	0.90	0.98	1.08	1.06	1.32	1.89	1.22	0.46	1.38
Al_2O_3	24.69	15.29	22.54	18.12	14.64	18.36	27.54	20.45	15.40	25.33
Fe_2O_3	1.41	1.17	1.08	1.45	0.49	1.30	0.40	5.20	0.77	0.79
FeO	12.07	5.31	7.09	8.00	1.37	13.89	17.48	4.60	3.03	11.43
MnO	0.14	0.11	0.11	0.19	0.01	0.07	0.27	0.06	0.06	0.13
MgO	3.66	1.89	1.70	2.36	0.76	8.28	3.81	2.04	0.97	2.80
CaO	0.25	0.53	0.54	0.70	2.51	1.41	0.57	0.67	0.71	0.61
Na_2O	0.45	0.88	1.54	1.08	3.77	0.90	0.53	1.73	1.52	0.76
K_2O	2.05	3.17	3.89	3.16	1.16	3.75	1.95	6.87	5.03	3.22
P_2O_5	0.03	0.04	0.07	0.05	0.03	0.05	0.03	0.07	0.07	0.10
H_2O+	0.77	0.79	0.61	0.90	0.61	0.85	0.57	0.78	0.76	0.53
H_2O-										
CO_2										
Rest	0.26	0.20	0.24	0.21	0.19	0.22	0.25	0.30	0.18	0.33
Total	99.60	99.78	100.09	99.60	99.90	99.10	99.09	99.49	99.06	100.21
Ba	615	608	874	673	133	461	476	1106	669	1057
Li	6	7	11	22	31	31	18	13	5	10
Rb	97	132	179	124	53	484	115	361	220	166
Sr	55	88	141	62	140	44	41	107	125	86
Pb	11	21	38	23	6	3	4	30	41	19
Th	23	13	23	22	4	<1	6	58	15	35
U	1	1	1.5	1.5	0.5	1	1	1	1	2
Zr	180	233	148	216	335	56	301	261	113	232
Nb	13	12	14	13	12	18	24	17	6	15
Y	63	31	40	43	3	93	80	22	19	65
La	61	42	54	56	15	3	13	72	31	85
Ce	103	66	96	96	27	<4	17	123	58	159
Nd	52	28	45	38	12	5	11	51	24	75
Sc	31	10	14	16	10	30	44	31	4	28
V	280	127	140	177	89	316	443	176	63	269
Cr	164	63	46	39	309	79	80	5	17	111
Ni	87	29	24	14	72	7	28	<2	7	78
Cu	5	3	11	6	4	3	4	3	20	6
Zn	79	42	51	13	108	11	44	30	41	108
Ga	30	17	27	22	15	34	41	28	17	35
As	0.5	0.5	0.5	1	0.5	0.5	<0.5	0.5	<0.5	<0.5
Be	4	1	1	2	4	3	2	2	1	1

Late Proterozoic Metasediments

Sample number	81285271	81285273	81285304	81285309	81285329	81285332	81285333	81285336	81285342	81285352
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Bolingen Islands	Bolingen Islands	Larsemann Hills W	Larsemann Hills SW,	Svenner Is SW	Svenner Is SW	Svenner Is C	Svenner Is C	Svenner Is NE	Brattstra-Bluffs
Rock type	Bi-Si-Gt pelite	Bi-Si-Cd-Gt pelite	Cd-Bi pelite	Sp-Si-Cd pelite	Bi-Gt-Si-Cd pelite	Sp-Gt-Si-Cd pelite	Bi-Cd pelite	Sp-Bi-Cd pelite	Sp-Cd pelite	Bi-Gt-Sp-Si pelite
Age	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero	Protero
Additional data										
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	74.70	45.80	56.40	55.10	67.60	51.10	69.50	67.70	67.10	65.10
TiO_2	0.65	1.94	1.20	1.24	0.69	1.17	1.21	0.78	1.01	0.89
Al_2O_3	11.75	24.41	19.08	23.14	18.27	26.27	13.35	14.76	15.14	18.03
Fe_2O_3	0.25	0.44	1.75	0.86	0.72	0.84	3.86	3.19	3.58	1.82
FeO	6.14	15.53	3.65	5.19	3.84	8.62	4.46	2.81	3.29	4.85
MnO	0.05	0.29	0.02	<0.01	0.05	0.11	0.06	0.05	0.05	0.10
MgO	1.58	3.80	4.61	2.56	1.11	2.86	3.12	1.58	2.07	1.56
CaO	0.78	2.18	1.92	1.91	0.54	1.85	0.22	1.73	1.22	0.67
Na_2O	0.96	2.19	3.77	3.96	1.97	2.34	0.45	2.05	1.67	1.75
K_2O	2.34	1.80	3.89	4.05	4.17	3.61	1.50	3.42	3.72	4.00
P_2O_5	0.03	0.07	0.10	0.12	0.17	0.18	0.31	0.12	0.13	0.06
H_2O+	0.60	1.19	1.71	0.56	0.61	0.56	0.76	0.73	0.48	0.51
H_2O-										
CO_2										
Rest	0.19	0.31	0.22	0.24	0.17	0.25	0.22	0.21	0.26	0.22
Total	100.02	99.95	98.32	98.93	99.91	99.76	99.02	99.13	99.72	99.56
Ba	584	918	295	642	406	552	568	799	1095	632
Li	12	10	45	13	14	15	12	12	10	14
Rb	115	61	328	205	202	183	66	146	131	221
Sr	60	122	135	187	87	119	70	193	189	103
Pb	23	19	6	11	40	31	7	27	23	40
Th	29	30	41	19	13	41	24	12	16	21
U	4	1	2	<0.5	2	5	1	1	1	1.5
Zr	234	248	119	137	158	267	374	140	209	211
Nb	10	16	20	10	12	19	10	5	7	12
Y	28	70	47	32	18	56	16	20	10	35
La	42	69	49	56	33	75	50	27	46	83
Ce	85	124	95	98	59	141	97	48	85	135
Nd	33	59	39	41	25	66	46	22	36	47
Sc	9	41	32	23	3	21	9	8	7	11
V	95	322	208	212	98	145	137	89	97	101
Cr	51	150	123	95	56	85	106	58	88	29
Ni	17	29	51	52	43	32	41	27	42	15
Cu	14	25	2	27	14	5	9	13	8	5
Zn	66	82	20	24	50	108	82	60	70	50
Ga	13	28	25	26	25	30	18	14	17	18
As	<0.5	1	<0.5	<0.5	0.5	1	1.5	0.5	0.5	<0.5
Be	1	2	2	2	5	5	6	2	3	1

Late Proterozoic Metasediments

Sample number	81285356
Area	Prydz Bay Coast
Locality	Brattstrand Bluffs
Rock type	Cd-Si-Gt pelite
Age	Protero
Additional data	
Biblio. ref.	15,18
SiO_2	60.70
TiO_2	1.04
Al_2O_3	21.07
Fe_2O_3	0.57
FeO	8.96
MnO	0.17
MgO	2.77
CaO	0.54
Na_2O	0.78
K_2O	2.54
P_2O_5	0.05
H_2O+	0.61
H_2O-	
CO_2	
Rest	0.22
Total	100.02
Ba	622
Li	8
Rb	115
Sr	72
Pb	20
Th	17
U	1
Zr	189
Nb	11
Y	47
La	44
Ce	69
Nd	33
Sc	18
V	224
Cr	86
Ni	20
Cu	5
Zn	58
Ga	30
As	0.5
Be	1

9/11

Late Proterozoic - Cambrian Granitic Intrusives

Sample number	81285150	81285151	81285347	81285375	81285376	81285378	81285380	81285381	81285397	81285399
Area	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast	Prydz Bay Coast
Locality	Amanda Rookery	Amanda Rookery	Brattstrand Bluffs	Landing Bluff	Landing Bluff	Sansom Island	Bosun Island	Sandefjord Bay NE	Vestknatten Ntk	Meknattane Ntks
Rock type	Bi-Gt granite	Gt-Bi granite	Gt-Bi granite	Bi granite	Hb-Bi granite	Hb-Bi granite	Bi granite	Hb-Bi granite	Bi granite	Ol-Bi-Hb granite
Age	?Protero	?Protero	?Protero	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian	Cambrian
Additional data										
Biblio. ref.	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18	15,18
SiO_2	69.00	69.60	70.50	69.50	68.60	65.70	70.70	68.80	70.40	75.90
TiO_2	0.74	0.56	0.56	0.83	0.85	1.23	0.50	0.68	0.69	0.25
Al_2O_3	14.45	14.51	14.65	13.05	13.73	14.40	13.41	14.10	13.10	11.77
Fe_2O_3	0.66	0.47	0.72	0.72	0.77	0.95	0.66	0.87	1.88	1.21
FeO	3.01	2.89	2.30	3.47	3.39	4.83	2.64	3.51	3.30	1.41
MnO	0.04	0.05	0.02	0.05	0.05	0.08	0.04	0.05	0.05	0.02
MgO	0.91	0.78	0.85	0.55	0.53	1.02	0.26	0.35	0.25	<0.10
CaO	1.87	1.43	1.70	2.24	2.29	3.01	1.85	2.25	2.33	1.14
Na_2O	2.60	2.72	2.69	2.11	2.08	2.00	2.08	2.11	1.81	2.00
K_2O	5.29	5.88	5.73	5.59	6.04	5.41	6.36	6.28	5.08	6.14
P_2O_5	0.29	0.14	0.16	0.24	0.30	0.40	0.16	0.22	0.27	0.04
H_2O+	0.35	0.42	0.32	0.84	0.70	0.59	0.79	0.49	0.84	0.51
H_2O-										
CO_2										
Rest	0.37	0.32	0.34	0.38	0.35	0.40	0.38	0.41	0.37	0.20
Total	99.58	99.77	100.54	99.57	99.68	100.02	99.83	100.12	100.37	100.59
Ba	998	856	891	924	901	1195	1606	1908	1103	268
Li	27	27	16	24	16	24	14	14	15	7
Rb	365	385	332	276	278	251	264	216	186	239
Sr	195	175	235	149	169	217	174	201	172	69
Pb	57	65	65	48	50	47	50	49	40	33
Th	154	141	160	154	111	90	68	32	84	87
U	4.5	5	2.5	4.5	2.5	2	1.5	1	2.5	2
Zr	464	354	332	420	436	471	347	473	461	253
Nb	20	15	6	20	19	26	14	19	28	16
Y	20	20	14	44	41	45	31	29	33	47
La	184	163	218	250	209	205	157	108	225	155
Ce	348	303	383	481	390	380	285	200	409	290
Nd	131	109	132	189	158	151	113	91	168	122
Sc	3	4	2	6	5	8	3	4	5	<2
V	40	31	29	30	32	54	14	23	11	4
Cr	9	9	12	10	10	14	<3	<3	<3	<3
Ni	2	<2	<2	5	5	7	4	2	<2	<2
Cu	5	4	3	7	7	10	11	17	16	9
Zn	48	42	53	89	87	119	65	90	129	52
Ga	22	22	23	19	20	20	19	21	22	18
As	<0.5	<0.5	<0.5	1.5	1	3	1.5	3.5	0.5	<0.5
Be	1	1	1	4	4	4	3	3	4	2

Alkaline Mafic Igneous Rocks

Sample Number	77284870A	77284870B	77284872	77284875	77284883	77284887	77284888	77284889	77284893A	77284893B
Area	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land	Wilhelm II Land
Locality	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg	Gaussberg
Rock type	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite	Olivine leucitite
Additional Data										
Age	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary	Quaternary
Bibliog. ref.	7	7	7	7	7	7	7	7	7	7
SiO_2	50.80	50.20	50.70	50.50	50.10	51.60	51.60	51.00	51.20	51.50
TiO_2	3.43	3.36	3.34	3.28	3.34	3.47	3.50	3.50	3.44	3.54
Al_2O_3	9.95	9.79	9.95	10.04	9.92	10.00	10.05	9.98	9.42	9.49
Fe_2O_3	2.47	2.40	2.32	2.77	3.12	2.33	2.12	2.48	2.54	2.31
FeO	3.76	3.85	3.84	3.39	3.14	3.84	4.00	3.83	3.86	4.12
MnO	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.09
MgO	8.09	7.92	8.34	8.19	8.21	7.53	7.50	7.81	8.19	7.95
CaO	4.78	4.72	4.76	4.84	4.91	4.48	4.50	4.81	4.35	4.38
Na_2O	1.78	1.64	1.70	1.53	1.17	2.19	1.85	1.55	1.53	1.65
K_2O	11.49	11.54	11.54	11.30	10.97	11.50	11.87	11.68	11.73	12.16
P_2O_5	1.46	1.46	1.44	1.46	1.46	1.49	1.48	1.50	1.48	1.53
H_2O+	1.24	1.03	1.09	1.13	2.72	0.84	0.65	1.14	1.17	0.92
H_2O-	0.07	0.07	0.06	0.03	0.04	0.05	0.03	0.04	0.06	0.07
CO_2	0.09	0.07	0.03	0.02	<0.01	0.13	0.02	0.04	0.03	0.02
Rest	1.20	1.19	1.20	1.23	1.25	1.20	1.18	1.17	1.23	1.22
TOTAL	100.70	99.33	100.40	99.80	100.43	100.73	100.43	100.62	100.32	100.95
Ba	5550	5440	5620	5850	5970	5640	5480	5380	5450	5340
Rb	309	305	311	311	313	315	316	307	336	330
Sr	1870	1890	1830	1860	1940	1740	1760	1840	1710	1720
Pb	36	37	36	35	36	37	38	35	42	66
Th	29	29	28	28	30	29	28	29	33	35
U	3	3	2	2	3	3	2	3	3	4
Zr	903	915	901	890	893	957	972	943	1350	1360
Nb	88	89	88	87	88	87	90	93	96	97
Y	19	19	18	18	18	19	19	18	18	19
La	214	207	211	213	215	212	206	204	211	211
Ce	348	334	339	341	338	335	331	321	343	343
Nd										
Sn	2	4	2	2	1	<1	2	2	2	7
V	112	108	110	108	107	107	104	107	100	101
Cr	308	333	311	324	338	303	272	315	287	284
Ni	223	231	234	243	234	231	249	226	240	223
Cu	29	31	27	28	26	32	29	28	31	31
Zn	77	93	83	73	72	89	74	75	80	78
Ga	18	17	18	18	18	18	17	17	18	18

811

Alkaline Mafic Igneous Rocks

Sample Number	77284894	77284730
Area	Wilhelm II Land	Bunger Hills
Locality	Gaussberg	
Rock type	Olivine leucitite	Trachy-basalt
Additional Data		
Age	Quaternary	
Bibliog. ref.	7	14
SiO_2	51.00	50.50
TiO_2	3.42	1.46
Al_2O_3	9.89	17.67
Fe_2O_3	2.15	2.59
FeO	3.94	4.79
MnO	0.08	0.13
MgO	7.76	4.04
CaO	4.37	6.14
Na_2O	1.53	3.06
K_2O	11.89	5.88
P_2O_5	1.50	1.15
H_2O+	0.96	0.39
H_2O-	0.08	0.03
CO_2	0.05	
Rest	1.15	1.02
TOTAL	99.77	98.85
Ba	5320	4660
Rb	313	213
Sr	1720	2060
Pb	37	104
Th	28	96
U	3	11
Zr	955	468
Nb	87	25
Y	18	30
La	204	259
Ce	334	433
Nd		
Sn	2	1
V	107	127
Cr	288	82
Ni	228	47
Cu	30	58
Zn	75	83
Ga	17	18

611

Metasedimentary Xenoliths

Sample number	82280115	82280225	82280004m	82280109	82280170	82280155	82280192	82280005	82280117A	82280146
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	White Spur	2km SE of Fisher Sp.	Thompson Spur	White Spur	5km S of Penseroso	Blown Away Bluff	3km N of Penseroso	Thompson Spur	Blown Away Bluff	Blown Away Bluff
Rock type	Bi schist xenolith	Bi schist xenolith	Bi gneiss xenolith	Bi schist xenolith	Bi schist xenolith	Bi schist xenolith	Breccia xenolith	Bi schist xenolith	Bi schist xenolith	Bi schist xenolith
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHg/c xen	GHg/a* xen	GHg/c* xen	GHg/c* xen	GHg/c* xen	GHg/c# xen	Ws/d xen	GHg/c* xen	GHg/c# xen	GHg/c* xen
Biblio. ref.	20	20	20	20	20	20	20	20	20	20
SiO_2	46.10	43.00	59.80	63.40	62.30	68.00	68.60	74.00	74.50	74.60
TiO_2	1.56	1.08	1.04	1.35	1.06	0.72	0.75	0.55	0.50	0.57
Al_2O_3	19.39	26.11	17.34	13.21	15.86	13.41	13.34	11.82	11.83	11.90
Fe_2O_3	4.02	2.30	0.60	0.57	0.45	0.60	1.14	0.29	0.16	0.32
FeO	7.77	8.60	6.59	7.27	5.21	4.95	4.77	3.26	3.36	2.94
MnO	0.18	0.33	0.17	0.10	0.05	0.09	0.11	0.04	0.05	0.09
MgO	4.65	4.67	3.58	3.25	3.39	2.67	2.54	1.76	1.68	1.69
CaO	10.11	1.53	1.42	1.42	1.97	2.98	1.71	2.52	2.61	3.27
Na_2O	2.74	1.36	1.66	1.16	1.40	1.57	1.38	2.61	2.06	1.72
K_2O	1.13	7.18	4.59	4.45	5.40	2.67	3.64	1.65	1.72	1.79
P_2O_5	0.62	0.16	0.08	0.40	0.19	0.19	0.12	0.18	0.19	0.16
H_2O+	1.44	2.87	2.06	1.71	1.31	1.83	1.50	1.22	1.09	0.82
H_2O-	0.12	0.06	0.13	0.11	0.04	0.21	0.16	0.25	0.07	0.15
CO_2										
Rest	0.17	0.30	0.21	0.37	0.41	0.18	0.23	0.16	0.12	0.17
Total	100.00	99.55	99.27	98.77	99.04	100.07	99.99	100.31	99.94	100.19
Ba	206	835	241	452	1231	369	869	309	125	339
Li	18	28	80	59	28	41	23	31	28	26
Rb	35	225	280	276	229	198	137	140	125	135
Sr	370	198	106	104	603	167	184	214	154	182
Pb	7	25	20	20	37	13	23	19	14	10
Th	2	30	23	52	28	20	15	16	11	15
U	<0.5	4	5	9.5	3.5	3	2	2.5	3	3
Zr	98	212	240	1074	524	197	205	246	222	250
Nb	10	25	29	28	22	17	22	11	11	24
Y	39	64	19	73	33	27	34	17	22	28
La	8	42	32	63	41	38	27	29	20	31
Ce	29	90	71	136	87	80	53	60	42	62
Nd	25	43	31	63	42	33	26	25	18	31
Sc	30	25	18	20	15	12	12	6	10	10
V	216	180	94	111	134	89	89	54	56	54
Cr		144	112	104	103		75			56
Ni	<2	46	24	36	41	31	24	19	18	19
Cu	18	11	5	<2	9	6	5	10	4	11
Zn	125	113	121	139	99	89	76	58	63	49
Sn	1	4	15	11	3	3	<1	<1	<1	2
Ga	22	40	27	20	19	19	15	16	15	12
As	0.5	1	<0.5	1.5	0.5	0.5	<0.5	0.5	<0.5	0.5
Be	2	5	5	1	1	4	2	4	1	4

021

Xenolithic and Layered Granitoids

Sample number	82280145	82280006m	82280389	82280222	82280189	82280172	82280223	82280110	82280114A	82280004f
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	N Allegro Valley	Thompson Spur	Thompson Spur E	2km SE of Fisher Sp.	3km NE of Penseroso	5km S of Penseroso	2km SE of Fisher Sp	White Spur	Blown Away Bluff	Thompson Spur
Rock type	Bi-rich restite	Bi-rich restite	Fruitcake tonalite	Fruitcake tonalite	Fruitcake granod.	Fruitcake granite	Fruitcake granite	Fruitcake granite	Fruitcake granite	Fruitcake K granite
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHg/c* res	GHg/c* res	GHg/c*	GHg/a*	GHg/a*	GHg/c*	GHg/a*	GHg/c*	GHg/c*	GHg/c*
Biblio. ref.	20	20	20	20	20	20	20	20	20	20
SiO_2	58.60	53.80	66.10	73.70	70.00	68.70	68.50	72.60	69.90	73.50
TiO_2	0.97	2.10	0.57	0.52	0.54	0.56	0.30	0.40	0.54	0.02
Al_2O_3	16.75	12.69	15.32	12.74	13.77	14.22	15.00	13.45	13.87	14.70
Fe_2O_3	1.01	1.18	0.37	0.76	0.23	0.54	0.37	0.38	0.49	0.02
FeO	7.90	11.62	3.99	2.46	4.12	4.12	4.01	2.32	3.46	0.07
MnO	0.17	0.18	0.07	0.05	0.06	0.06	0.06	0.04	0.06	0.02
MgO	4.15	6.21	2.03	1.42	2.11	1.99	2.43	1.19	1.93	0.10
CaO	0.74	0.47	3.48	2.65	2.49	1.63	1.17	1.22	1.65	0.38
Na_2O	0.76	0.07	3.66	2.55	2.23	2.04	1.39	1.43	1.68	1.50
K_2O	5.68	6.47	2.10	1.52	2.75	3.88	3.43	5.56	3.53	9.75
P_2O_5	0.19	0.32	0.59	0.05	0.09	0.13	0.12	0.19	0.17	0.15
H_2O+	1.89	2.38		0.73	1.16	1.70		1.12	1.59	0.29
H_2O-	0.22	0.10		0.09	0.16	0.20		0.13	0.16	0.07
CO_2										
Rest	0.22	0.35	0.12	0.13	0.16	0.22	0.16	0.20	0.18	0.19
Total	99.25	97.94	98.40	99.37	99.87	99.99	96.94	100.23	99.21	100.76
Ba	448	243	80	180	323	699	603	817	466	1173
Li	62	93	32	14	32	44	24	28	30	4
Rb	288	505	160	81	144	186	118	189	182	241
Sr	77	4	180	202	195	171	123	178	174	203
Pb	19	5	20	19	25	34	15	43	25	71
Th	20	40	11	11	14	20	15	7	13	1
U	7	7	3.5	1.5	3	4	3	2	2.5	<0.5
Zr	159	590	134	183	218	214	149	121	184	7
Nb	21	75	15	15	11	11	6	13	17	3
Y	106	29	38	6	17	22	30	11	21	<1
La	27	48	25	20	26	35	26	12	25	<2
Ce	66	108	56	39	55	72	54	27	52	<4
Nd	27	49	26	17	23	31	24	14	25	<2
Sc	23	35	10	9	10	9	4	8	10	<2
V	158	205	55	59	64	72	40	51	71	3
Cr		211		55				39	57	<3
Ni	50	67	24	17	26	22	14	16	22	2
Cu	8	3	7	3	6	10	6	3	11	<2
Zn	131	263	70	54	64	82	62	50	71	2
Sn	7	13	5	3	3	5	2	11	5	6
Ga	25	32	21	15	19	19	20	13	17	8
As	1.5	1	0.5	<0.5	<0.5	0.5	0.5	<0.5	1	<0.5
Be	6	1	2	2	5	5	5	2	3	1

121

Xenolithic and Layered Granitoids

Sample number	82280006f	82280112	82280128	82280117	82280111	82280113	82280118	82280127	82280129	82280150f
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	Thompson Spur	Blown Away Bluff	Head of Largo Val.	White Spur	Blown Away Bluff	Blown Away Bluff	White Spur	Head of Largo Val.	Head of Largo Val.	Blown Away Bluff
Rock type	Fruitcake K granite	Layered tonalite	Layered tonalite	Layered trondhjem.	Layered granite	Layered granite	Layered granite	Layered granite	Layered granite	Layered granite
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHg/c*	GHg/c#	GHg/c*#	GHg/b+c	GHg/c#	GHg/c#	GHg/b+c	GHg/c*#	GHg/c*#	GHg/c#
Biblio. ref.	20	20	20	20	20	20	20	20	20	20
SiO_2	65.00	64.20	66.60	77.50	70.80	65.90	73.00	69.50	71.10	71.90
TiO_2	0.15	0.64	0.77	0.07	0.37	0.71	0.11	0.30	0.54	0.11
Al_2O_3	17.22	16.86	15.41	13.24	14.71	15.34	15.05	15.28	13.63	14.36
Fe_2O_3	0.16	0.68	0.51	<0.10	0.32	0.43	<0.10	0.27	0.35	0.12
FeO	0.94	4.05	4.43	0.91	2.23	4.78	0.84	2.03	3.29	0.59
MnO	0.05	0.08	0.06	0.02	0.04	0.07	0.04	0.04	0.05	0.02
MgO	0.56	2.06	1.79	0.25	1.23	2.57	0.32	0.89	1.61	0.49
CaO	1.27	5.04	3.34	2.72	1.93	2.12	1.30	1.83	1.85	1.39
Na_2O	1.65	2.56	3.02	4.75	2.51	2.04	2.95	2.67	2.41	2.12
K_2O	11.55	2.05	2.16	0.64	4.77	4.28	5.37	6.00	3.91	6.12
P_2O_5	0.77	0.19	0.25	0.04	0.08	0.14	0.09	0.23	0.22	0.08
H_2O+	0.67				0.89			0.63	0.92	0.62
H_2O-	0.07				0.13			0.10	0.21	0.12
CO_2										
Rest	0.31	0.15	0.14	0.04	0.18	0.21	0.09	0.17	0.16	0.19
Total	100.37	98.56	98.48	100.18	100.19	98.59	99.16	99.94	100.25	98.23
Ba	1675	400	77	23	604	522	232	654	306	961
Li	12	42	43	17	32	37	27	26	34	12
Rb	299	84	171	34	185	245	185	223	213	173
Sr	267	280	158	106	193	179	104	183	140	218
Pb	102	10	22	28	40	29	69	48	30	54
Th	6	3	24	2	19	17	6	12	16	9
U	4	<0.5	7	1.5	3.5	2.5	3	4	4	2.5
Zr	82	155	217	61	148	290	53	128	217	68
Nb	12	7	15	3	9	17	3	7	11	8
Y	82	15	20	3	13	26	13	14	26	12
La	7	7	35	6	23	23	9	16	24	15
Ce	17	15	79	11	50	52	19	39	50	27
Nd	14	8	31	3	18	19	7	15	22	15
Sc	4	14	11	2	6	13	2	4	10	2
V	16	88	60	4	36	72	5	23	51	12
Cr	18									11
Ni	3	8	12	4	12	35	<2	5	21	4
Cu	2	4	18	6	5	4	3	5	4	<2
Zn	23	59	71	11	45	86	16	38	67	15
Sn	3	<1	6	2	5	8	4	10	6	6
Ga	14	17	24	16	16	21	15	16	17	12
As	<0.5	0.5	0.5	<0.5	0.5	0.5	<0.5	<0.5	0.5	<0.5
Be	1	1	2	3	1	2	6	1	<1	2

Xenolithic and Layered Granitoids

Sample number	82280150m	82280151	82280152	82280177	82280178
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	Blown Away Bluff	Blown Away Bluff	Blown Away Bluff	Penseroso Bluff	Penseroso Bluff
Rock type	Layered granite	Layered granite	Layered granite	Layered granite	Layered granite
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHg/c#	GHg/c#	GHg/c#	GHg/a*#	GHg/a*#
Biblio. ref.	20	20	20	20	20
SiO_2	65.90	73.20	70.40	72.60	75.60
TiO_2	0.68	0.09	0.32	0.17	0.08
Al_2O_3	15.90	14.87	14.96	14.63	13.09
Fe_2O_3	0.40	0.14	0.39	0.22	0.07
FeO	4.08	0.40	1.83	0.95	0.45
MnO	0.08	0.01	0.04	0.03	0.02
MgO	2.29	0.27	1.13	0.50	0.27
CaO	2.15	1.27	2.38	1.75	1.35
Na_2O	1.83	2.34	2.51	2.70	2.31
K_2O	4.67	6.77	3.82	5.13	5.63
P_2O_5	0.21	0.09	0.12	0.07	0.06
H_2O+	1.14	0.53	0.76	0.52	0.52
H_2O-	0.14	0.11	0.09	0.02	0.04
CO_2					
Rest	0.20	0.19	0.16	0.13	0.11
Total	99.67	100.28	98.91	99.42	99.60
Ba	528	942	519	334	337
Li	37	15	25	21	11
Rb	226	197	158	171	171
Sr	174	203	208	109	103
Pb	34	55	37	46	51
Th	14	8	6	27	14
U	3	3	2.5	3.5	1
Zr	190	68	171	127	102
Nb	19	13	14	13	9
Y	16	6	7	9	3
La	21	11	12	32	16
Ce	44	24	25	67	34
Nd	20	12	12	30	15
Sc	13	2	6	3	2
V	77	9	43	8	6
Cr	60	5	24	5	<3
Ni	12	<2	8	2	<2
Cu	<2	<2	2	<2	<2
Zn	75	10	38	20	10
Sn	9	9	9	5	3
Ga	20	13	16	15	12
As	<0.5	<0.5	<0.5	<0.5	<0.5
Be	3	1	2	3	2

Homogeneous Granitoids

Sample number	82280090	82280197	82280130	82280121	82280132	82280343	82280381	82280116A	82280119	82280136
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	Kleinschmidt Bluffs	Lee Ntk	White Spur SW	White Spur	White Spur	Thompson Spur	Schroeder Spur W	Blown Away Bluff	White Spur	N Allegro Valley
Rock type	Tonalite	Tonalite dyke	Granod.	Granite	Granite pophyry	Granite	Granite	Aplite dyke	Aplite dyke	Aplite dyke
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHd/g	GHg/c	GHg/b	GHg/c	GHg/b	GHg/a	GHg	GHg/c#	GHg/b+c	GHg/c*
Biblio. ref.	20	20	20	20	20	20	20	20	20	20
SiO_2	68.00	70.70	64.80	70.30	68.40	71.70	72.80	74.30	72.80	73.60
TiO_2	0.80	0.51	0.87	0.43	0.72	0.40	0.28	0.10	0.12	0.07
Al_2O_3	15.63	14.73	16.29	14.52	14.44	14.18	14.03	14.11	14.76	13.69
Fe_2O_3	0.39	0.17	0.48	0.41	0.40	0.23	0.27	0.11	0.09	<0.10
FeO	3.86	3.01	4.22	2.60	3.84	2.36	1.71	1.18	0.82	1.31
MnO	0.08	0.05	0.09	0.04	0.07	0.04	0.04	0.06	0.03	0.02
MgO	1.57	1.06	1.81	1.00	1.38	0.82	0.60	0.44	0.32	0.30
CaO	3.57	3.53	3.19	1.99	2.49	1.11	0.96	1.41	1.23	1.13
Na_2O	2.75	3.11	2.70	2.88	2.58	2.54	2.16	3.33	2.66	2.76
K_2O	2.00	1.51	3.54	4.26	4.01	5.30	5.55	3.92	6.36	6.30
P_2O_5	0.26	0.15	0.34	0.15	0.24	0.22	0.31	0.09	0.08	0.09
H_2O+	0.86	0.79	0.98	0.78	0.72		0.88	0.98	0.49	
H_2O-	0.08	0.11	0.13	0.08	0.18		0.07	0.12	0.05	
CO_2										
Rest	0.13	0.13	0.17	0.18	0.17	0.16	0.15	0.13	0.11	0.18
Total	99.98	99.56	99.61	99.62	99.64	99.06	99.81	100.28	99.92	99.45
Ba	128	205	417	477	350	288	218	551	309	880
Li	39	30	40	65	46	43	60	13	32	12
Rb	144	129	195	280	265	292	345	136	228	199
Sr	194	221	174	150	122	111	73	165	123	175
Pb	22	21	20	34	23	39	43	34	68	62
Th	15	11	13	21	20	40	34	9	8	10
U	4.5	1.5	4	6	3.5	5.5	10	4	2	2.5
Zr	190	194	167	172	226	182	193	76	68	86
Nb	10	12	11	13	18	14	13	7	5	2
Y	12	17	5	11	14	18	19	15	5	6
La	27	24	38	28	29	29	28	15	11	13
Ce	60	52	80	62	67	71	66	29	24	30
Nd	25	20	31	24	29	31	29	11	11	11
Sc	11	7	13	5	8	3	2	2	3	<2
V	53	43	63	30	49	19	12	4	5	8
Cr										
Ni	<2	4	<2	9	4	6	<2	<2	3	2
Cu	5	5	16	12	14	5	4	7	3	8
Zn	63	47	64	58	69	59	58	28	19	16
Sn	4	2	6	9	5	9	23	4	5	4
Ga	21	17	23	18	21	21	24	14	15	12
As	0.5	0.5	1	0.5	<0.5	1	<0.5	0.5	<0.5	0.5
Be	6	3	5	3	6	1	2	2	2	1

Homogeneous Granitoids

Sample number	82280245	82280287
Area	N Victoria Land	N Victoria Land
Locality	Mount Nero W	Mount Toogood
Rock type	Aplite dyke	Aplite dyke
Age	Camb-Ord	Camb-Ord
Additional data	Ws/g	Ws/d,g
Biblio. ref.	20	20
SiO_2	73.20	74.20
TiO_2	0.06	0.01
Al_2O_3	13.82	14.30
Fe_2O_3	0.07	0.23
FeO	0.72	0.82
MnO	0.02	0.16
MgO	0.31	0.11
CaO	0.92	0.37
Na_2O	1.87	4.58
K_2O	8.50	4.53
P_2O_5	0.24	0.19
H_2O+	0.37	
H_2O-	0.06	
CO_2		
Rest	0.12	0.05
Total	100.28	99.55
Ba	497	4
Li	10	19
Rb	214	339
Sr	96	4
Pb	84	22
Th	5	1
U	2.5	2
Zr	38	19
Nb	2	6
Y	25	<1
La	4	<2
Ce	12	5
Nd	5	<2
Sc	<2	<2
V	5	<1
Cr		
Ni	<2	2
Cu	3	4
Zn	12	8
Sn	<1	11
Ga	13	20
As	1	<0.5
Be	1	3

Amphibolite and Hornblende Tonalites

Sample number	82280233	82280282	82280289	82280383
Area	N Victoria Land	N Victoria Land	N Victoria Land	N Victoria Land
Locality	Penseroso Bluff W	Schroeder Spur E	Mount Toogood	Schroeder Spur W
Rock type	Amphibolite dyke	Hornblende tonalite	Hornblende tonal sill	Hornblende tonal dyke
Age	Camb-Ord	Camb-Ord	Camb-Ord	Camb-Ord
Additional data	GHg/a*#	GHg/c	Ws/d,g	GHg
Biblio. ref.	20	20	20	20
SiO_2	50.10	60.80	60.30	60.30
TiO_2	1.16	0.81	0.90	0.75
Al_2O_3	18.95	14.93	14.95	16.93
Fe_2O_3	2.06	1.04	1.31	1.14
FeO	7.16	5.48	5.30	5.24
MnO	0.15	0.12	0.11	0.11
MgO	4.52	4.33	3.66	2.75
CaO	8.70	6.11	5.91	6.35
Na_2O	2.82	2.66	2.66	2.84
K_2O	1.88	1.72	2.57	1.53
P_2O_5	0.44	0.27	0.21	0.20
H_2O+				
H_2O-				
CO_2				
Rest	0.19	0.26	0.21	0.16
Total	98.13	98.53	98.09	98.30
Ba	206	673	468	280
Li	26	17	38	62
Rb	93	128	107	86
Sr	504	537	377	256
Pb	9	23	18	13
Th	<1	20	14	8
U	2	4.5	3	2.5
Zr	148	171	159	127
Nb	6	11	9	8
Y	18	24	26	24
La	22	52	33	20
Ce	40	99	70	41
Nd	26	40	31	19
Sc	21	20	20	16
V	164	159	174	120
Cr				
Ni	12	18	9	2
Cu	56	14	11	20
Zn	110	73	71	69
Sn	3	2	2	1
Ga	19	17	18	16
As	<0.5	2	4.5	1
Be	1	3	2	1