Table DR1. SIMS zircon U-Pb geochronological results from Geological Survey of Canada-Ottawa

Samples 09VL48, 09VLB37, 09VL28, and 09VL27:

Analyzed at the Geological Survey of Canada-Ottawa using the analytical protocols of Stern (1997) and Stern and Amelin (1997).

References

Stern, R.A., 1997, The GSC Sensitive High Resolution Ion Microprobe (SHRIMP): analytical techniques of zircon U-Th-Pb age determinations and performance evaluation: Geological Survey of Canada, Current Research 1997-F, p. 1-31.

Stern, R.A., and Amelin, Y., 2003, Assessment of errors in SIMS zircon U-Pb geochronology using a natural standard and NIST SRM 610 glass: Chemical Geology, v. 197, p. 111-146, doi: 10.1016/S0009-254(02)00320-0.

Barnard Gla	cier plu	uton (3	06.6 ±	4.3 Ma;	sample (9VL4	B - 07V	460102E	E 6780	403N N	IAD 8	3)									204-corre	cted	207-с	orrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		<u>207*</u> Pb		^{206*} Pb		Corr	^{207*} Pb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
10078-53.1ª	549	1566	2.95	5	2.4E-2	5	41.50	0.387	2.2	54.8	2.3	0.4029	0.7	0.079	52	0.0107	3.9	0.08	0.0538	51	68.5	3	67.9	2
10078-39.1a	529	538	1.05	19	1.4E-2	12	24.43	0.115	6.0	18.4	2.3	0.2331	1.9	0.109	182	0.0411	4.6	0.03	0.0192	182	260	12	269	6
10078-38.1	1780	954	0.55	68	2.8E-3	10	4.77	0.152	3.3	21.3	2.3	0.0852	1.0	0.275	10	0.0447	2.3	0.24	0.0447	10	282	6	284	6
10078-24.1ª	1435	848	0.61	55	6.1E-3	7	10.61	0.138	2.9	20.0	2.3	0.1309	0.9	0.248	18	0.0447	2.4	0.13	0.0402	18	282	7	286	6
10078-2.1	531	133	0.26	21	4.7E-3	20	8.16	-0.003	10.2	19.9	2.7	0.0938	2.5	0.144	71	0.0461	3.2	0.05	0.0226	71	291	9	301	8
10078-15.1	625	186	0.31	25	4.7E-3	18	8.06	0.015	9.0	19.9	2.3	0.0926	2.3	0.142	63	0.0463	2.8	0.04	0.0222	63	292	8	302	7
10078-16.1	651	207	0.33	26	1.9E-3	26	3.33	0.078	9.9	20.5	2.3	0.0739	2.6	0.297	17	0.0472	2.5	0.14	0.0456	17	297	7	300	7
10078-54.1	656	242	0.38	27	1.7E-3	29	2.95	0.100	9.2	20.5	2.3	0.0753	4.1	0.329	16	0.0475	2.5	0.15	0.0504	16	299	7	300	7
10078-35.1	516	149	0.30	21	4.9E-3	20	8.50	-0.016	15.2	19.3	2.3	0.0973	2.5	0.152	72	0.0475	3.0	0.04	0.0232	72	299	9	309	7
10078-52.1	620	235	0.39	25	7.8E-4	39	1.36	0.126	8.9	20.7	2.3	0.0601	2.6	0.319	10	0.0476	2.4	0.23	0.0487	10	300	7	301	7
10078-14.1	512	128	0.26	21	2.7E-3	27	4.75	0.091	9.8	20.0	2.3	0.0906	2.6	0.332	23	0.0477	2.7	0.12	0.0505	23	301	8	301	7
10078-59.1	533	195	0.38	22	2.3E-3	25	3.94	0.106	8.4	20.1	2.4	0.0722	2.5	0.253	24	0.0478	2.6	0.11	0.0384	24	301	8	306	7
10078-4.1	469	131	0.29	19	2.4E-3	43	4.12	0.105	10.5	20.1	2.3	0.0757	3.0	0.267	39	0.0478	3.0	0.08	0.0406	39	301	9	305	7
10078-20.1	543	151	0.29	22	1.9E-3	29	3.36	0.090	10.2	20.1	2.5	0.0855	2.5	0.380	16	0.0480	2.7	0.17	0.0573	15	303	8	301	7
10078-42.1	669	180	0.28	28	2.9E-3	26	5.00	0.126	8.8	19.6	2.3	0.0918	2.5	0.331	24	0.0485	2.7	0.11	0.0496	23	305	8	306	7
10078-72.1	619	196	0.33	26	2.0E-3	30	3.41	0.062	10.5	19.9	2.3	0.0712	2.6	0.282	22	0.0485	2.5	0.12	0.0421	22	305	8	309	7
10078-1.1	928	395	0.44	39	5.6E-4	44	0.98	0.133	7.3	20.4	2.3	0.0659	2.0	0.386	7	0.0485	2.4	0.33	0.0577	7	305	7	303	7
10078-10.1	1020	485	0.49	43	7.8E-4	32	1.35	0.173	5.6	20.3	2.3	0.0638	1.8	0.351	8	0.0486	2.3	0.30	0.0525	7	306	7	306	7
10078-7.1	653	274	0.43	27	1.1E-3	31	1.88	0.133	7.5	20.1	2.3	0.0710	2.1	0.371	10	0.0487	2.4	0.25	0.0552	9	307	7	306	7
10078-8.1	1772	889	0.52	74	3.7E-4	31	0.64	0.160	4.5	20.4	2.3	0.0567	1.4	0.344	4	0.0488	2.3	0.53	0.0512	4	307	7	307	7
10078-46.1	910	446	0.51	38	6.3E-4	20	1.09	0.179	6.4	20.2	2.3	0.0684	2.0	0.399	5	0.0489	2.3	0.51	0.0593	4	307	7	305	7
10078-75.1	833	279	0.35	35	1.6E-3	24	2.83	0.106	7.2	19.9	2.3	0.0687	2.0	0.302	14	0.0489	2.4	0.17	0.0447	14	308	7	311	7
10078-33.1	1447	797	0.57	61	4.9E-4	30	0.85	0.185	4.2	20.2	2.3	0.0590	2.2	0.350	5	0.0490	2.3	0.42	0.0518	5	309	7	309	7
10078-43.1	715	191	0.28	30	1.3E-3	34	2.23	0.036	13.4	19.9	2.3	0.0607	2.9	0.282	17	0.0490	2.4	0.15	0.0417	17	309	7	312	7
10078-17.1	635	229	0.37	27	1.5E-3	29	2.53	0.109	8.3	19.9	2.3	0.0727	2.2	0.347	13	0.0490	2.4	0.19	0.0514	13	309	7	309	7
10078-34.1	498	196	0.41	21	3.1E-3	25	5.35	0.026	11.5	19.3	2.3	0.0778	2.8	0.214	39	0.0491	2.7	0.07	0.0316	39	309	8	317	7

Barnard Glacier pluton (306.6 ± 4.3 Ma; sample 09VL48 - 07V 460102E 6780403N NAD 83)

																					204-corre	cted	207-c	corrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	207* Pb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
10078-40.1	506	164	0.33	21	1.1E-3	38	1.90	0.129	8.9	20.0	2.3	0.0682	3.5	0.353	13	0.0491	2.4	0.19	0.0522	13	309	7	309	7
10078-9.1	699	177	0.26	30	7.9E-4	16	1.36	0.099	10.9	20.0	2.3	0.0679	2.7	0.383	5	0.0492	2.3	0.45	0.0564	5	310	7	308	7
10078-27.1	472	175	0.38	20	1.0E-3	24	1.75	0.161	8.1	20.0	2.3	0.0682	2.5	0.363	8	0.0492	2.3	0.30	0.0535	8	310	7	309	7
10078-65.1	753	209	0.29	32	1.2E-3	30	2.12	0.101	8.8	19.6	2.3	0.0703	2.3	0.362	11	0.0500	2.4	0.21	0.0524	11	315	7	315	7
10078-6.1	1018	353	0.36	44	3.5E-4	42	0.61	0.153	6.9	19.8	2.3	0.0674	2.0	0.430	5	0.0501	2.3	0.50	0.0623	4	315	7	312	7
10078-70.1	605	169	0.29	26	4.6E-4	61	0.80	0.142	9.9	19.5	2.3	0.0838	5.1	0.541	8	0.0508	2.4	0.30	0.0772	8	319	7	310	7
10078-48.1	934	385	0.43	42	1.6E-3	21	2.76	0.109	6.6	18.8	2.3	0.0639	1.9	0.287	13	0.0518	2.4	0.18	0.0403	13	325	7	330	7
10078-56.1	605	172	0.29	27	3.1E-3	25	5.29	0.004	13.0	18.3	2.3	0.0733	3.0	0.196	46	0.0518	2.7	0.06	0.0274	46	326	9	335	8
10078-61.1	604	179	0.31	28	5.1E-4	25	0.89	0.116	14.5	18.7	2.3	0.0667	3.3	0.434	5	0.0531	2.4	0.43	0.0593	5	333	8	331	8
10078-67.1 ^a	694	261	0.39	32	1.3E-2	21	23.31	-0.370	16.5	14.4	2.6	0.1112	4.2	0.935	9	0.0534	6.8	0.76	0.1270	6	335	22	406	10
10078-26.1	1484	690	0.48	70	1.3E-3	22	2.29	0.130	5.8	17.8	2.3	0.0677	1.7	0.366	10	0.0549	2.3	0.24	0.0483	9	345	8	347	8
10078-82.1ª	1222	646	0.55	60	2.2E-2	8	37.63	0.039	4.3	10.8	3.8	0.3522	1.3	0.196	180	0.0575	6.3	0.03	0.0247	180	360	22	373	14
10078-64.1 ^{a,c}	3049	3839	1.30	155	1.4E-2	19	23.98	0.033	8.7	12.9	2.4	0.2268	3.0	0.130	335	0.0591	6.5	0.02	0.0160	335	370	23	386	10
10078-45.1ª	916	333	0.38	47	7.1E-3	21	12.29	0.000	10.5	14.6	2.4	0.1146	2.9	0.044	506	0.0603	3.8	0.01	0.0053	506	377	14	399	9
10078-76.1ª	1109	434	0.40	65	6.6E-3	24	11.44	-0.037	13.7	13.1	2.6	0.1088	4.9	0.067	392	0.0678	4.1	0.01	0.0072	392	423	17	446	12
Maximat IDEE0	14400																			*bold a	ges used to calc	ulate weighte	d average/rep	orted age

Mount IP558, K100 spot size, primary intensity ~5nA

bold ages used to calculate weighted average report

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number. Multiple analyses in an individual spot are labelled as x-y.z.z

Uncertainties reported at 1s and are calculated by using SQUID 2.23.08.10.21, rev. 21 Oct 2008

f206²⁰⁴ refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method; common Pb composition used is the surface blank (4/6: 0.05770; 7/6: 0.89500; 8/6: 2.13840)

* refers to radiogenic Pb (corrected for common Pb)

Calibration standard 6266; U = 910 ppm; Age = 559 Ma; 206Pb/238U = 0.09059

Error in ²⁰⁶Pb/²³⁸U calibration 2.24% (included)

Standard Error in Standard calibration was 0.53% (not included in above errors but required when comparing data from different mounts).

^aDenotes an analysis exlcuded from the age calculation based on common 206 Pb > 5.0%

^bDenotes an analysis exlcuded from the age calculation based on suspected post-crystallization Pb loss

^cDenotes an analysis exlcuded from the age calculation based on U concentration >2000ppm

Chitina Glac	ier plu	ton (30	1.2 ± 2	.6 Ma; s	ample 09	VLB3	7 - 07V	502752	E 6766	6176N N	NAD 8	3)												
																					204-corre	cted	207-с	orrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	<u>208*</u> Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	207* Pb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
9966-8.2 ^b	361	217	0.62	14	3.9E-4	22	0.722	0.189	3.9	21.83	1.7	0.057	1.05	0.3	3.2	0.045	1.7	0.53	0.052	2.74	287	5	287	5
9966-14.1 ^b	560	398	0.73	22	1.0E-4	35	0.192	0.234	2.6	21.79	1.7	0.054	0.88	0.3	2.2	0.046	1.7	0.78	0.053	1.36	289	5	288	5
9966-4.1 ^b	463	399	0.89	18	1.9E-4	28	0.365	0.273	2.6	21.57	1.7	0.055	0.94	0.3	2.5	0.046	1.7	0.68	0.053	1.81	291	5	291	5
9966-41.1 ^b	216	116	0.55	8.6	4.6E-4	29	0.79	0.162	4.6	21.4	0.78	0.0582	1.48	0.33	4.2	0.046	0.81	0.2	0.0515	4.2	292	2	292	2

Page 2/7

Chitina Glacier pluton (301.2 ± 2.6 Ma; sample 09VLB37 - 07V 502752E 6766176N NAD 83)

																					204-corre	ected	207-с	orrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	^{208*} Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		<u>²06*</u> Pb		Corr	^{207*} Pb		206 Pb	±	206 Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
9966-8.1 ^b	346	255	0.76	13.8	2.6E-5	748	0.04	0.223	3.7	21.6	0.78	0.0537	1.36	0.34	5.6	0.046	0.85	0.2	0.0533	5.5	292	2	292	2
9966-26.1 ^b	508	261	0.53	20.4	2.8E-4	29	0.48	0.180	3.0	21.3	0.73	0.0532	1.41	0.32	2.9	0.047	0.74	0.3	0.0492	2.8	294	2	295	2
9966-62.1 ^b	351	272	0.80	14.1	4.0E-4	27	0.70	0.248	3.1	21.3	0.74	0.0546	1.22	0.31	3.7	0.047	0.76	0.2	0.0487	3.6	294	2	295	2
9966-7.1	277	169	0.63	11	4.0E-4	26	0.746	0.197	4.5	21.20	1.7	0.055	1.26	0.3	3.9	0.047	1.7	0.45	0.049	3.44	295	5	296	5
9966-10.1	243	135	0.57	10	1.7E-4	41	0.327	0.189	4.5	21.28	1.7	0.055	1.31	0.3	3.0	0.047	1.7	0.58	0.053	2.42	295	5	295	5
9966-56.1	101	44	0.45	4.1	6.7E-4	31	1.17	0.140	7.4	21.1	0.92	0.0602	2.24	0.33	6.8	0.047	0.99	0.1	0.0504	6.7	296	3	296	3
9966-13.1	527	461	0.90	21	2.3E-4	24	0.432	0.287	2.4	21.17	1.7	0.054	0.87	0.3	2.5	0.047	1.7	0.67	0.050	1.85	296	5	297	5
9966-65.1	178	90	0.52	7.2	6.1E-4	35	1.05	0.155	5.1	21.0	0.79	0.0562	1.64	0.31	7.0	0.047	0.87	0.1	0.0473	6.9	297	3	298	2
9966-12.1	148	83	0.58	6.0	6.0E-4	36	1.05	0.165	6.3	20.9	0.81	0.0548	2.13	0.30	7.5	0.047	0.89	0.1	0.0459	7.5	298	3	300	2
9966-3.1	793	948	1.23	32	1.2E-4	27	0.221	0.379	1.6	21.11	1.7	0.055	0.71	0.3	2.0	0.047	1.7	0.83	0.053	1.14	298	5	297	5
9966-2.1	422	306	0.75	17.1	2.2E-4	43	0.38	0.225	3.0	21.1	0.73	0.0542	1.12	0.33	3.0	0.047	0.75	0.2	0.0510	3.0	298	2	298	2
9966-5.1	593	609	1.06	24	2.3E-4	31	0.428	0.342	2.2	21.03	1.7	0.056	0.87	0.3	2.8	0.047	1.7	0.61	0.053	2.18	298	5	298	5
9966-59.1	363	266	0.76	14.8	9.2E-5	61	0.16	0.253	3.4	21.1	0.75	0.0541	1.36	0.34	2.2	0.047	0.75	0.3	0.0528	2.1	298	2	298	2
9966-60.1	278	113	0.42	11.3	1.0E-4	50	0.18	0.131	4.5	21.1	0.89	0.0546	1.28	0.35	2.1	0.047	0.90	0.4	0.0531	1.9	298	3	298	3
9966-23.1	209	135	0.66	8.6	3.4E-4	53	0.60	0.222	4.8	20.9	0.78	0.0535	1.83	0.32	6.0	0.048	0.84	0.1	0.0484	5.9	300	2	301	2
9966-11.1	76	33	0.45	3.1	9.2E-4	53	1.59	0.143	7.6	20.6	1.03	0.0609	2.39	0.31	15.8	0.048	1.34	0.1	0.0475	15.7	301	4	302	3
9966-57.1	224	121	0.56	9.2	-5.3E-5	325	-0.09	0.183	4.5	21.0	0.76	0.0555	1.48	0.37	4.7	0.048	0.81	0.2	0.0563	4.7	301	2	299	2
9966-28.1	248	155	0.65	10.2	4.5E-4	30	0.78	0.199	3.9	20.7	0.75	0.0549	1.42	0.32	4.5	0.048	0.79	0.2	0.0483	4.4	301	2	303	2
9966-42.1	260	138	0.55	10.7	7.6E-5	53	0.13	0.185	4.7	20.9	0.77	0.0531	1.62	0.34	2.1	0.048	0.77	0.4	0.0520	2.0	301	2	301	2
9966-58.1	444	285	0.66	18.3	2.0E-4	39	0.35	0.210	3.0	20.8	0.73	0.0539	1.10	0.34	2.7	0.048	0.74	0.3	0.0510	2.6	301	2	302	2
9966-70.1	435	384	0.91	17.9	7.9E-5	27	0.14	0.298	2.3	20.8	0.73	0.0541	0.98	0.35	1.4	0.048	0.73	0.5	0.0529	1.2	302	2	302	2
9966-1.1	129	57	0.46	5.3	1.4E-4	82	0.24	0.134	6.6	20.8	0.79	0.0576	1.87	0.37	3.6	0.048	0.81	0.2	0.0556	3.6	302	2	301	2
9966-53.1	1082	606	0.58	44.7	3.0E-5	127	0.05	0.183	2.0	20.8	0.71	0.0531	0.68	0.35	1.4	0.048	0.72	0.5	0.0526	1.3	303	2	302	2
9966-27.1	943	410	0.45	39.0	2.1E-5	54	0.04	0.140	2.7	20.8	0.72	0.0523	0.80	0.35	1.1	0.048	0.72	0.6	0.0520	0.9	303	2	303	2
9966-55.1	462	325	0.73	19.1	-2.0E-5	298	-0.03	0.236	3.1	20.8	0.74	0.0528	1.21	0.35	2.1	0.048	0.74	0.3	0.0530	2.0	303	2	303	2
9966-36.1	150	83	0.57	6.2	-4.9E-4	66	-0.85	0.194	6.7	20.9	0.81	0.0544	2.20	0.41	7.8	0.048	0.98	0.1	0.0615	7.8	303	3	300	2
9966-7.1	230	101	0.45	9.5	3.2E-4	42	0.56	0.140	4.7	20.6	0.86	0.0545	1.44	0.33	4.4	0.048	0.89	0.2	0.0498	4.3	304	3	305	3
9966-39.1	175	99	0.59	7.3	1.7E-5	98	0.03	0.210	4.8	20.6	0.77	0.0572	1.69	0.38	1.9	0.048	0.77	0.4	0.0570	1.8	305	2	304	2
9966-3.1	782	359	0.47	32.6	2.8E-5	42	0.05	0.157	2.7	20.6	0.74	0.0533	0.85	0.35	1.2	0.049	0.74	0.6	0.0529	0.9	305	2	305	2
9966-22.1	835	400	0.49	34.8	1.2E-4	25	0.21	0.159	2.8	20.6	0.74	0.0542	0.88	0.35	1.5	0.049	0.74	0.5	0.0524	1.2	305	2	305	2
9966-64.1	59	24	0.42	2.5	-4.8E-5	1582	-0.08	0.136	11.5	20.5	1.07	0.0603	3.09	0.41	18.2	0.049	1.69	0.1	0.0610	18.1	307	5	304	3
9966-21.1	496	359	0.75	20.9	1.6E-4	32	0.27	0.232	2.5	20.3	0.75	0.0541	0.97	0.35	1.9	0.049	0.75	0.4	0.0518	1.7	309	2	309	2
9966-13.1	254	136	0.55	10.7	3.2E-4	46	0.56	0.187	4.2	20.2	0.76	0.0548	1.47	0.34	4.7	0.049	0.80	0.2	0.0501	4.6	309	2	310	2
9966-61.1	177	65	0.38	7.5	1.7E-4	35	0.29	0.120	6.4	20.3	0.84	0.0545	2.42	0.35	3.1	0.049	0.84	0.3	0.0521	3.0	309	3	310	3
9966-24.1	116	53	0.47	4.9	4.7E-4	50	0.81	0.133	6.5	20.0	0.80	0.0529	2.00	0.31	8.0	0.050	0.90	0.1	0.0460	7.9	312	3	314	2
9966-8.1ª	156	45	0.30	7	3.0E-3	18	5.695	0.008	292.9	18.90	1.7	0.061	3.45	0.1	62.5	0.050	2.0	0.03	0.014	62	314	6	329	6
9966-33.1°	2973	1431	0.50	128.5	3.4E-5	18	0.06	0.157	1.5	19.9	0.71	0.0529	0.46	0.36	0.9	0.050	0.71	0.8	0.0524	0.5	317	2	317	2

Mount IP545 (K120 spot size, primary intensity ~11nA), Mount IP550 (K100 spot size, primary intensity ~12nA)

*bold ages used to calculate weighted average/reported age

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number. Multiple analyses in an individual spot are labelled as x-y.z.z. Uncertainties reported at 1s and are calculated by using SQUID 2.23.08.10.21, rev. 21 Oct 2008 f206²⁰⁴ refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method;

Common Pb composition used is the surface blank (4/6: 0.05770; 7/6: 0.89500; 8/6: 2.13840)

* refers to radiogenic Pb (corrected for common Pb)

Calibration standard 6266; U = 910 ppm; Age = 559 Ma; 206Pb/238U = 0.09059

Error in ²⁰⁶Pb/²³⁸U calibration 1.63% for IP mount 545, calibration 2 and 0.70% for IP mount 550, calibration 1 (included)

Standard Error in Standard calibration was 0.29% for IP mount 545, calibration 2 and 0.16% for IP mount 550

Calibration 1 (not included in above errors but required when comparing data from different mounts).

<code>aDenotes</code> an analysis exlcuded from the age calculation based on common $^{206}\mathrm{Pb}$ > 2.0%

^bDenotes an analysis exlcuded from the age calculation based on suspected post-crystallization Pb loss

^cDenotes an analysis exlcuded from the age calculation based on U concentration >2000 ppm

Donjek Glacier batholith diorite (285.7 ± 2.4 Ma; sample 09VL28 - 07V 571043E 6773718N NAD 83)

				(,						•••••		-,								204-corre	cted	207-с	orrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	207* Pb		206 Pb	±	206 Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
10154-96.1ª	77	16	0.22	3	2.7E-3	36	4.658	-0.023	23.3	22.9	1.5	0.061	4.74	0.12	76.8	0.042	2.3	0.0	0.020	76.8	263	6	272	4
10154-11.1 ^b	74	27	0.38	3	8.8E-4	31	1.518	0.078	21.3	23.2	1.5	0.060	5.16	0.28	11.1	0.042	1.6	0.1	0.047	11.0	268	4	269	4
10154-32.1ª	100	40	0.41	4	1.4E-3	51	2.348	0.083	15.8	22.6	1.7	0.059	4.12	0.23	27.2	0.043	2.1	0.1	0.039	27.2	273	6	277	5
10154-9.1 [♭]	187	92	0.51	7	9.2E-4	19	1.598	0.106	12.4	22.7	1.2	0.056	3.19	0.25	7.7	0.043	1.3	0.2	0.042	7.6	274	3	277	3
10154-35.1ª	108	32	0.30	4	1.7E-3	16	2.860	0.076	15.1	22.3	1.3	0.065	3.77	0.24	12.1	0.044	1.4	0.1	0.040	12.0	275	4	278	4
10154-100.1 ¹	292	111	0.39	11	7.2E-4	38	1.252	0.117	8.5	22.6	1.3	0.055	2.46	0.27	9.8	0.044	1.4	0.1	0.045	9.7	276	4	278	4
10154-102.1 ¹	131	68	0.54	5	5.8E-4	34	1.002	0.188	10.7	22.6	2.0	0.059	3.59	0.30	7.5	0.044	2.0	0.3	0.050	7.2	276	5	276	5
10154-14.1 ^b	302	116	0.40	11	1.1E-4	73	0.187	0.113	9.4	22.8	1.2	0.056	2.44	0.33	3.5	0.044	1.2	0.3	0.054	3.3	276	3	276	3
10154-80.1 ^ª	43	12	0.29	2	1.4E-3	39	2.466	0.019	25.0	22.2	1.7	0.071	5.83	0.30	18.8	0.044	2.0	0.1	0.050	18.7	277	5	277	5
10154-90.1ª	86	25	0.31	3	1.3E-3	23	2.280	0.056	19.2	22.2	1.4	0.063	4.36	0.27	12.3	0.044	1.5	0.1	0.044	12.2	278	4	280	4
10154-65.1 ^b	126	46	0.38	5	2.8E-4	691	0.481	0.154	12.9	22.6	1.3	0.060	3.77	0.34	50.2	0.044	3.6	0.1	0.056	50.1	278	10	276	4
10154-23.1 ^b	323	106	0.34	12		100	0.000	0.112	9.5	22.7	1.4	0.057	2.38	0.34	2.7	0.044	1.4	0.5	0.057	2.4	278	4	276	4
10154-59.1 ^b	250	144	0.60	9	-3.5E-4	47	-0.607	0.237	7.7	22.8	1.2	0.056	2.80	0.37	4.8	0.044	1.2	0.3	0.061	4.6	279	3	276	3
10154-85.1	129	64	0.51	5	5.6E-4	33	0.974	0.150	11.9	22.4	2.1	0.057	3.67	0.29	7.5	0.044	2.1	0.3	0.048	7.2	279	6	280	6
10154-57.1	311	164	0.54	12	5.6E-4	33	0.971	0.160	7.7	22.4	1.5	0.054	2.51	0.28	6.8	0.044	1.5	0.2	0.046	6.6	279	4	281	4
10154-52.1	560	353	0.65	21	1.4E-4	30	0.234	0.211	5.1	22.5	1.3	0.051	1.86	0.30	2.6	0.044	1.3	0.5	0.049	2.3	280	4	280	4
10154-73.1	176	54	0.32	7	7.6E-4	39	1.311	0.098	12.2	22.2	1.2	0.054	3.33	0.26	11.3	0.044	1.3	0.1	0.043	11.2	280	4	283	3
10154-103.1	503	146	0.30	19	2.9E-4	20	0.499	0.088	7.9	22.4	1.2	0.053	1.93	0.30	3.0	0.044	1.2	0.4	0.049	2.7	280	3	281	3
10154-67.1	648	513	0.82	25	-2.0E-4	6	-0.349	0.256	5.0	22.4	1.4	0.055	1.93	0.35	2.3	0.045	1.4	0.6	0.057	1.9	282	4	280	4
10154-5.1	346	236	0.71	13	6.6E-4	33	1.148	0.220	6.3	22.1	1.1	0.055	2.35	0.28	7.9	0.045	1.2	0.2	0.045	7.8	282	3	284	3
10154-94.2	331	62	0.19	13	2.4E-4	27	0.421	0.053	12.5	22.3	1.1	0.053	2.41	0.30	3.4	0.045	1.1	0.3	0.049	3.2	282	3	283	3
10154-110.1	438	271	0.64	17	-1.3E-4	68	-0.217	0.210	6.0	22.4	1.4	0.054	2.09	0.35	3.3	0.045	1.4	0.4	0.056	3.0	282	4	281	4
10154-76.1	526	245	0.48	20	-3.1E-4	43	-0.544	0.149	6.7	22.4	1.2	0.054	1.94	0.36	4.0	0.045	1.2	0.3	0.058	3.8	283	3	281	3
10154-104.1	231 409	122	0.05	9	5.5E-4	85 26	0.943	0.178	0.2	22.0	1.4	0.057	2.13	0.31	14.3	0.045	1.0	0.1	0.050	14.2	283 204	4	204 204	4
10154-94.1	408 420	214	0.09	10	1.9⊑-4	20 100	0.330	0.211	5.9 6.0	22.2 22.2	1.1	0.054	2.14	0.32	2.9	0.045	1.1	0.4	0.051	2.1	284 294	ა ი	204 202	3 2
10104-04.1	430	200	0.04	17		100	0.000	0.211	0.0	22.2	1.1	0.054	2.12	0.34	2.4	0.043	1.1	0.5	0.054	∠.1	204	3	203	3

Donjek Glacier batholith diorite (285.7 ± 2.4 Ma; sample 09VL28 - 07V 571043E 6773718N NAD 83)

																					204-corre	ected	207-c	orrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		^{206*} Pb		Corr	<u>²07*</u> Рb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
10154-96.2	1887	1186	0.65	73	9.3E-5	135	0.161	0.192	2.8	22.1	1.0	0.053	0.98	0.32	3.8	0.045	1.0	0.3	0.052	3.7	284	3	284	3
10154-112.1	169	89	0.55	7		100	0.000	0.163	10.6	22.2	1.2	0.059	3.10	0.37	3.3	0.045	1.2	0.4	0.059	3.1	285	3	282	3
10154-98.1	474	206	0.45	18	1.6E-5	1469	0.028	0.146	6.7	22.1	1.1	0.056	1.97	0.35	6.7	0.045	1.2	0.2	0.056	6.6	285	3	284	3
10154-74.1	770	295	0.40	30		100	0.000	0.113	6.1	22.1	1.1	0.053	1.59	0.33	1.9	0.045	1.1	0.6	0.053	1.6	285	3	285	3
10154-20.1	353	225	0.66	14	-9.7E-5	220	-0.167	0.215	6.3	22.1	1.1	0.054	2.25	0.34	6.1	0.045	1.2	0.2	0.055	6.0	285	3	284	3
10154-17.2	847	352	0.43	33	-2.1E-4	52	-0.372	0.147	5.2	22.2	1.1	0.051	1.54	0.34	3.5	0.045	1.1	0.3	0.054	3.3	286	3	285	3
10154-22.1	239	76	0.33	9	-9.6E-5	461	-0.166	0.115	11.0	22.1	1.2	0.054	4.50	0.34	12.5	0.045	1.4	0.1	0.055	12.4	286	4	285	3
10154-82.1	982	309	0.32	38	1.1E-4	21	0.190	0.109	4.5	22.0	1.0	0.051	1.84	0.31	2.3	0.045	1.1	0.5	0.050	2.0	286	3	287	3
10154-56.1	605	420	0.72	24	5.8E-5	52	0.101	0.232	4.6	21.9	1.1	0.052	1.76	0.32	2.3	0.046	1.1	0.5	0.052	2.0	287	3	287	3
10154-95.2	767	255	0.34	30		100	0.000	0.115	6.0	22.0	1.1	0.051	1.63	0.32	1.9	0.046	1.1	0.5	0.051	1.6	287	3	287	3
10154-108.1	109	55	0.52	4		100	0.000	0.141	14.9	21.9	1.3	0.057	4.14	0.36	4.3	0.046	1.3	0.3	0.057	4.1	288	4	286	4
10154-68.1	605	379	0.65	24	4.2E-4	36	0.718	0.195	5.0	21.7	1.1	0.052	2.78	0.29	5.8	0.046	1.1	0.2	0.046	5.7	288	3	290	3
10154-109.1	1143	499	0.45	45	7.1E-5	133	0.123	0.133	4.4	21.8	1.1	0.053	1.27	0.33	3.1	0.046	1.1	0.4	0.052	2.9	289	3	289	3
10154-87.1	1748	1076	0.64	69	6.5E-5	49	0.112	0.194	3.0	21.8	1.1	0.052	1.04	0.32	1.8	0.046	1.1	0.6	0.051	1.4	289	3	289	3
10154-55.1	2023	1251	0.64	80	3.8E-5	28	0.066	0.208	2.7	21.8	1.0	0.053	0.98	0.33	1.5	0.046	1.0	0.7	0.053	1.0	290	3	289	3
10154-106.1	1331	692	0.54	53	5.6E-5	32	0.097	0.156	3.8	21.7	1.0	0.052	1.21	0.32	1.7	0.046	1.0	0.6	0.051	1.3	290	3	291	3
10154-91.2	1601	684	0.44	63	5.2E-5	75	0.089	0.133	3.8	21.7	1.0	0.052	1.09	0.33	1.9	0.046	1.0	0.5	0.051	1.6	291	3	291	3
10154-111.1	314	83	0.27	12	4.2E-4	21	0.720	0.066	11.5	21.5	1.3	0.055	2.49	0.31	4.0	0.046	1.3	0.3	0.049	3.8	291	4	292	4
10154-61.1	203	57	0.29	8	5.3E-4	49	0.910	0.064	14.4	21.5	1.2	0.053	3.22	0.29	9.4	0.046	1.3	0.1	0.045	9.3	291	4	293	4
10154-99.1	218	40	0.19	9		100	0.000	0.076	13.9	21.7	1.2	0.059	2.81	0.37	3.1	0.046	1.2	0.4	0.059	2.8	291	3	289	3
10154-91.1ª	85	25	0.30	3	1.3E-3	190	2.200	0.107	20.5	21.1	1.6	0.065	4.94	0.29	79.5	0.046	4.6	0.1	0.046	79.3	292	13	294	5
10154-95.1	2171	1500	0.71	86	3.2E-5	78	0.055	0.224	2.1	21.6	1.0	0.052	0.79	0.33	1.5	0.046	1.0	0.7	0.052	1.1	292	3	292	3
10154-12.1	2281	1596	0.72	91	3.6E-5	33	0.063	0.220	2.5	21.6	1.1	0.051	0.92	0.32	1.5	0.046	1.1	0.7	0.051	1.0	292	3	292	3
10154-49.1	73	23	0.32	3	-1.6E-3	47	-2.735	0.166	22.7	22.1	1.4	0.061	4.28	0.53	12.7	0.046	1.9	0.1	0.084	12.6	292	5	282	4
10154-63.1	1810	843	0.48	72	7.4E-5	25	0.128	0.149	3.5	21.5	1.0	0.053	1.07	0.33	1.6	0.046	1.0	0.6	0.052	1.2	293	3	293	3
10154-17.1ª	305	56	0.19	12	1.5E-3	25	2.570	0.028	9.7	21.0	1.2	0.069	1.91	0.30	12.4	0.047	1.4	0.1	0.047	12.4	293	4	295	4
10154-15.1°	3056	2191	0.74	123	2.4E-5	30	0.041	0.240	2.0	21.4	1.1	0.052	0.77	0.34	1.3	0.047	1.1	0.8	0.052	0.8	295	3	295	3
10154-82.2 ^c	3255	2383	0.76	133	4.4E-5	30	0.075	0.236	1.9	20.9	1.0	0.052	0.75	0.33	1.3	0.048	1.0	0.8	0.051	0.8	300	3	301	3
																				*hold or		ulata waiaht	ad average/rea	orted are

Mount IP562, K100 spot size, primary intensity ~2nA

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number. Multiple analyses in an individual spot are labelled as x-y.z.z.

Uncertainties reported at 1s and are calculated by using SQUID 2.23.08.10.21, rev. 21 Oct 2008

f206²⁰⁴ refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method; common Pb composition used is the surface blank (4/6: 0.05770; 7/6: 0.89500; 8/6: 2.13840)

* refers to radiogenic Pb (corrected for common Pb)

Calibration standard 6266; U = 910 ppm; Age = 559 Ma; 206Pb/238U = 0.09059

Error in ²⁰⁶Pb/²³⁸U calibration 1.00% (included)

Standard Error in Standard calibration was 0.22% (not included in above errors but required when comparing data from different mounts).

^aDenotes an analysis exlcuded from the age calculation based on common ²⁰⁶Pb > 2.0%

^bDenotes an analysis exlcuded from the age calculation based on suspected post-crystallization Pb loss

^cDenotes an analysis exlcuded from the age calculation based on U concentration >2000 ppm

Donjek Glac	ier batl	nolith	granod	iorite (2	86 ± 2.9	Ma; sa	mple 0	9VL27 -	07V 57	71040E	6773	700N NA	D 83))										
																					204-corre	ected	207-0	corrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	^{207*} Pb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
9963-27.1	289	151	0.539	10.9	8.4E-4	26	1.46	0.176	6.0	22.4	1.1	0.0661	2.7	0.327	7.1	0.0441	1.2	0.16	0.0538	7.0	278	3	277	3.1
9963-23.1ª	141	57	0.422	5.4	1.8E-3	19	3.04	0.102	11.8	21.8	1.4	0.0685	2.0	0.261	12.6	0.0444	1.5	0.12	0.0426	12.5	280	4	283	3.9
9963-2.1	652	159	0.253	24.9	3.4E-4	22	0.59	0.077	3.5	22.3	1.3	0.0562	1.0	0.314	2.7	0.0445	1.3	0.47	0.0512	2.4	281	4	281	3.5
9963-8.1	313	132	0.435	12.0	1.0E-3	24	1.80	0.121	6.5	22.1	1.2	0.0646	2.6	0.303	8.3	0.0445	1.2	0.15	0.0494	8.2	281	3	282	3.3
9963-38.2 ^ª	79	14	0.181	3.0	5.0E-3	24	8.58	0.131	9.3	20.5	1.3	0.1150	3.9	0.257	46.8	0.0446	2.6	0.05	0.0417	46.7	281	7	285	4.0
9963-11.1	2267	427	0.195	87.2	7.1E-5	36	0.12	0.060	2.4	22.3	1.3	0.0530	0.6	0.321	1.6	0.0448	1.3	0.80	0.0520	0.9	282	3	282	3.5
9963-10.1	3750	1033	0.285	144.4	3.3E-5	41	0.06	0.090	1.5	22.3	1.3	0.0531	0.4	0.325	1.4	0.0448	1.3	0.91	0.0527	0.6	283	3	282	3.5
9963-69.1	651	129	0.205	25.1	6.8E-4	17	1.18	0.053	5.5	22.0	1.0	0.0604	1.6	0.312	4.1	0.0448	1.1	0.26	0.0504	4.0	283	3	283	2.9
9963-33.1	231	72	0.321	8.9	7.3E-4	29	1.26	0.095	5.1	22.0	1.3	0.0628	1.6	0.323	6.3	0.0449	1.4	0.21	0.0522	6.2	283	4	283	3.7
9963-74.1	339	125	0.380	13.1	8.5E-4	18	1.48	0.111	3.9	21.9	1.3	0.0610	1.3	0.300	5.3	0.0449	1.3	0.25	0.0485	5.1	283	4	284	3.6
9963-19.2	225	168	0.775	8.7	5.8E-4	66	1.00	0.254	5.8	22.0	1.1	0.0683	3.0	0.371	10.1	0.0449	1.3	0.13	0.0599	10.0	283	4	280	3.2
9963-19.1ª	754	141	0.193	29.1	4.9E-3	9	8.42	0.061	2.5	20.4	1.9	0.1182	0.8	0.290	16.1	0.0449	2.1	0.13	0.0468	15.9	283	6	285	5.4
9963-54.1	548	130	0.244	21.1	9.1E-4	20	1.58	0.061	6.3	21.9	1.1	0.0636	2.0	0.311	6.1	0.0449	1.1	0.18	0.0502	6.0	283	3	284	3.0
9963-13.1	2492	463	0.192	96.6	2.2E-4	12	0.37	0.058	2.0	22.1	1.3	0.0538	0.5	0.315	1.5	0.0451	1.3	0.81	0.0506	0.9	285	3	285	3.5
9963-9.1	423	128	0.313	16.4	9.6E-4	17	1.66	0.103	4.7	21.7	1.0	0.0614	2.5	0.295	6.2	0.0453	1.1	0.17	0.0473	6.1	285	3	287	3.0
9963-38.1	1457	805	0.571	56.7	1.3E-4	58	0.23	0.192	2.3	22.0	1.0	0.0564	0.7	0.340	2.4	0.0453	1.0	0.43	0.0545	2.2	286	3	285	2.9
9963-31.1	397	87	0.226	15.5	6.6E-4	41	1.15	0.076	6.0	21.8	1.0	0.0635	2.0	0.337	7.9	0.0453	1.2	0.15	0.0539	7.9	286	3	285	3.0
9963-49.1	539	148	0.283	21.0	1.9E-4	49	0.34	0.106	4.7	22.0	1.0	0.0579	1.7	0.344	3.3	0.0453	1.0	0.32	0.0551	3.1	286	3	285	2.9
9963-6.1	1277	607	0.491	49.7	2.6E-4	27	0.45	0.151	3.2	22.0	1.0	0.0566	1.4	0.330	2.7	0.0453	1.0	0.38	0.0528	2.5	286	3	285	2.9
9963-24.1	821	244	0.306	32.0	2.0E-4	60	0.35	0.105	3.6	22.0	1.0	0.0565	1.3	0.335	3.8	0.0454	1.0	0.28	0.0535	3.6	286	3	286	2.9
9963-57.1	1789	633	0.365	69.8	2.6E-4	22	0.45	0.106	3.6	21.9	1.0	0.0550	1.0	0.320	2.2	0.0454	1.0	0.46	0.0512	1.9	286	3	287	2.9
9963-16.1	2412	496	0.213	94.3	1.5E-4	19	0.26	0.069	2.8	21.9	1.3	0.0544	1.3	0.328	2.0	0.0455	1.3	0.63	0.0523	1.5	287	4	287	3.6
9963-61.1	1252	932	0.770	49.1	3.0E-4	27	0.51	0.244	2.1	21.8	1.0	0.0559	1.2	0.325	2.8	0.0456	1.0	0.37	0.0516	2.6	288	3	288	2.9
9963-25.1	1604	289	0.186	63.0	1.1E-4	39	0.19	0.057	2.7	21.8	1.3	0.0536	0.6	0.328	1.8	0.0457	1.3	0.68	0.0520	1.4	288	4	288	3.6
9963-56.1ª	63	22	0.364	2.5	4.0E-3	33	6.93	0.154	8.5	20.3	1.4	0.1218	2.2	0.405	32.2	0.0458	2.8	0.09	0.0642	32.1	289	8	285	4.0
9963-39.1	582	342	0.607	23.0	7.5E-4	19	1.31	0.215	3.2	21.5	1.0	0.0647	1.6	0.340	4.6	0.0459	1.1	0.23	0.0538	4.5	289	3	289	3.0
9963-29.1	2158	353	0.169	85.3	1.3E-4	20	0.23	0.052	2.4	21.7	1.3	0.0534	0.9	0.327	1.7	0.0460	1.3	0.73	0.0515	1.2	290	4	290	3.6
9963-12.1	2603	537	0.213	103.4	1.9E-4	12	0.33	0.067	1.8	21.5	1.3	0.0540	0.5	0.327	1.5	0.0463	1.3	0.83	0.0513	0.8	292	4	292	3.6
9963-52.1	1856	277	0.154	73.9	1.5E-4	19	0.26	0.049	2.6	21.5	1.3	0.0539	0.6	0.330	1.6	0.0463	1.3	0.78	0.0517	1.0	292	4	292	3.6
9963-59.1	2529	409	0.167	100.7	1.2E-4	22	0.21	0.053	2.2	21.5	1.3	0.0536	0.5	0.331	1.5	0.0464	1.3	0.81	0.0518	0.9	292	4	292	3.6
9963-70.1	1449	820	0.584	57.8	4.6E-4	14	0.80	0.190	2.0	21.4	1.0	0.0585	1.0	0.331	2.3	0.0464	1.0	0.43	0.0518	2.1	292	3	293	2.9
9963-17.1	2229	418	0.194	89.0	9.3E-5	19	0.16	0.064	2.2	21.5	1.3	0.0532	0.5	0.332	1.5	0.0465	1.3	0.86	0.0518	0.7	293	4	293	3.6
9963-7.2	2835	608	0.222	113.2	1.5E-4	20	0.25	0.073	3.1	21.5	1.0	0.0546	1.0	0.336	1.7	0.0465	1.0	0.61	0.0525	1.3	293	3	293	2.9
9963-50.1	1984	330	0.172	79.4	1.6E-4	16	0.27	0.049	2.5	21.4	1.3	0.0533	0.6	0.327	1.6	0.0466	1.3	0.80	0.0510	0.9	294	4	294	3.6
9963-36.1°	2281	430	0.195	92.3	8.6E-5	26	0.15	0.065	2.1	21.2	1.3	0.0534	0.5	0.339	1.5	0.0471	1.3	0.83	0.0522	0.8	297	4	297	3.7
9963-46.1°	3282	744	0.234	132.9	1.2E-4	16	0.20	0.074	1.6	21.2	1.3	0.0532	0.4	0.335	1.4	0.0471	1.3	0.88	0.0515	0.7	297	4	297	3.7
9963-42.1°	2150	341	0.164	87.8	1.3E-4	16	0.22	0.052	2.4	21.0	1.3	0.0545	0.5	0.345	1.5	0.0475	1.3	0.84	0.0527	0.8	299	4	299	3.7

Donjek Glacier batholith granodiorite (286 ± 2.9 Ma; sample 09VL27 - 07V 571040E 6773700N NAD 83)

																					204-corre	cted	207-с	orrected	
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	207* Pb		²⁰⁶ Pb	±	206 Pb	±	
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)	
9963-67.1°	3367	737	0.226	138.3	1.5E-4	13	0.27	0.070	1.6	20.9	1.3	0.0533	0.6	0.337	1.5	0.0478	1.3	0.83	0.0511	0.8	301	4	301	3.7	
9963-7.1ª	45	14	0.313	1.9	1.6E-3	25	2.84	0.190	10.3	19.9	1.3	0.1010	4.3	0.523	9.7	0.0488	1.5	0.16	0.0778	9.5	307	5	298	4.2	
9963-48.1°	11942	3591	0.311	562.2	4.9E-5	16	0.09	0.097	1.1	18.2	1.0	0.0522	0.4	0.389	1.1	0.0548	1.0	0.91	0.0515	0.5	344	3	345	3.4	
Mount ID529	K100 a	not ciza	nrima	av intonci	tv ~ 5nA															*bold ag	es used to calcu	late weighte	ed average/rep	orted age	_

Mount IP538, K100 spot size, primary intensity ~5nA

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number. Multiple analyses in an individual spot are labelled as x-y.z.z

Uncertainties reported at 1s and are calculated by using SQUID 2.23.08.10.21, rev. 21 Oct 2008

f206²⁰⁴ refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method; common Pb composition used is the surface blank (4/6: 0.05770; 7/6: 0.89500; 8/6: 2.13840) * refers to radiogenic Pb (corrected for common Pb)

Calibration standard 6266; U = 910 ppm; Age = 559 Ma; 206Pb/238U = 0.09059

Error in ²⁰⁶Pb/²³⁸U calibration 1.25% for calibration 1 and 1.0% for calibration 3 (included)

Standard Error in Standard calibration was 0.4% for calibration 1 and 0.2% for calibration 3 (not included in above errors but required when comparing data from different mounts).

^aDenotes an analysis exlcuded from the age calculation based on common ²⁰⁶Pb > 2.0%

^bDenotes an analysis exlcuded from the age calculation based on suspected post-crystallization Pb loss

^cDenotes an analysis exlcuded from the age calculation based on high U concentration >2000 ppm

Table DR2. SIMS zircon U-Pb geochronological results from Stanford-USGS SHRIMP laboratory

Samples 09VL21 and 09VL30:

Analyzed at U.S. Geological Survey - Stanford University Ion Probe Laboratory using analytical protocols of Barth and Wooden (2006). Calibration concentrations and compositions based on replicate analyses of CZ3 (U = 550 ppm; Pidgeon et al., 1994) and R33 (421 Ma; Black et al., 2004; Mattinson, 2010). Initial common Pb isotopic composition approximated from Stacey and Kramers (1975).

References

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Pidgeon, R.T., Furfaro, D., Kennedy, A.K., Nemchin, A.A., and van Bronswjk, W., 1994, Calibration of zircon standards for the Curtin SHRIMP II: U.S. Geological Survey Circular 1107, p. 251.

Stacey, J.S., and Kramers, J.D., 1975, Approximation of terrestrial lead isotope evolution by a two-stage model: Earth and Planetary Science Letters, v. 26, p. 207-221.

Centennial I	Range	pluton	(303.5	5 ± 2.1 N	/la; sample	909VI	_21 - 07	V 50105	1E 67	54474N	NAD	83)												
																					204-corr	ected	207-со	rrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	208* Pb		²³⁸ U/		²⁰⁷ Pb/		207* Pb		206* Pb		Corr	207*Pb		206 Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
09VL21-8.1	219	66	0.31	8.8	6.70E-05	64	<0.01	0.099	4.4	21.29	1.3	0.0517	2.4	0.33	3	0.0469	1.3	0.42	0.0517	2.4	295.6	3.6	296.1	3.7
09VL21-15.1	169	51	0.31	6.9		0	<0.01	0.097	3	21.2	1.4	0.0509	2.6	0.33	2.9	0.0472	1.4	0.48	0.0509	2.6	297.2	4.1	297.7	4.2
09VL21-1.1	259	68	0.27	10.6	5.40E-05	64	0.11	0.086	2.6	20.94	1.2	0.0532	2.1	0.35	2.6	0.0477	1.2	0.46	0.0532	2.1	300.5	3.5	300.4	3.5
09VL21-2.1	424	143	0.35	17.4	3.20E-05	64	0	0.112	2.8	20.95	1.1	0.0523	1.6	0.34	2	0.0477	1.1	0.52	0.0523	1.6	300.4	3.1	300.6	3.2
09VL21-14.1	290	86	0.31	11.9	5.60E-05	71	<0.01	0.102	2.1	20.92	1.1	0.0523	1.9	0.34	2.5	0.0478	1.1	0.45	0.0523	1.9	300.7	3.3	301	3.4
09VL21-13.1	313	97	0.32	12.8	7.60E-05	64	<0.01	0.105	2	20.92	1.1	0.0518	1.8	0.33	2.6	0.0477	1.1	0.43	0.0518	1.8	300.7	3.3	301.3	3.3
09VL21-4.1	390	121	0.32	16.1		0	<0.01	0.106	1.9	20.79	1.1	0.0517	1.7	0.34	2	0.0481	1.1	0.54	0.0517	1.7	302.8	3.2	303.1	3.3
09VL21-10.1	306	109	0.37	12.7	4.10E-05	63	0.2	0.118	3.2	20.71	1.1	0.054	1.9	0.36	2.4	0.0483	1.1	0.48	0.054	1.9	303.8	3.4	303.5	3.5
09VL21-5.1	332	125	0.39	13.8	4.40E-05	64	<0.01	0.124	1.9	20.73	1.1	0.0524	1.9	0.34	2.4	0.0482	1.1	0.48	0.0524	1.9	303.5	3.3	303.7	3.4
09VL21-9.1	265	99	0.39	11.1	2.10E-04	45	0.5	0.142	3.1	20.57	1.2	0.0565	2	0.36	3.5	0.0484	1.2	0.34	0.0565	2	304.8	3.6	304.5	3.6
09VL21-11.1	294	89	0.31	12.3	7.10E-05	66	<0.01	0.097	2.2	20.64	1.2	0.0519	2	0.34	2.7	0.0484	1.2	0.43	0.0519	2	304.6	3.4	305.2	3.5

Centennial Range pluton (303.5 ± 2.1 Ma; sample 09VL21 - 07V 501051E 6754474N NAD 83)

																					204-corr	ected	207-co	rrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	204 Pb		f ²⁰⁶ Pb	<u>208*</u> Pb		²³⁸ U/		²⁰⁷ Pb/		<u>207*</u> Pb		206* Pb		Corr	207* Pb		206 Pb	±	206 Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
09VL21-3.1	233	60	0.27	9.7	1.70E-04	45	0.05	0.081	2.7	20.57	1.2	0.0529	2.2	0.34	3.4	0.0485	1.2	0.36	0.0529	2.2	305.1	3.6	305.8	3.6
09VL21-7.1	352	90	0.26	14.8		0	<0.01	0.083	2.3	20.46	1.1	0.0524	1.9	0.35	2.2	0.0489	1.1	0.51	0.0524	1.9	307.6	3.4	307.6	3.4
09VL21-12.1	348	88	0.26	14.6	6.00E-05	50	<0.01	0.082	2.3	20.44	1.1	0.0518	1.9	0.34	2.4	0.0489	1.1	0.47	0.0518	1.9	307.5	3.4	308.1	3.4
09VL21-6.1	469	212	0.47	19.9		0	<0.01	0.148	1.5	20.28	1.1	0.0519	1.6	0.35	1.9	0.0493	1.1	0.55	0.0519	1.6	310.3	3.2	310.6	3.3

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number.

Uncertainties reported at 1s and are calculated by using the SQUID program.

* refers to radiogenic Pb (corrected for common Pb).

Reported age errors are at the 2s uncertainty level and incorporate the 2s external spot-to-spot error of the R33 standard.

f206Pb refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method.

Steele Glacier pluton (290.6 ± 2.7 Ma; sample 09VL30 - 07V 554394E 6783511N NAD 83)

	•	•			•						,													
																					204-corr	ected	207-co	rrected
Spot name	U	Th	Th/U	²⁰⁶ Pb*	²⁰⁴ Pb		f ²⁰⁶ Pb	^{208*} Pb		²³⁸ U/		²⁰⁷ Pb/		<u>^{207*}Pb</u>		^{206*} Pb		Corr	^{207*} Pb		²⁰⁶ Pb	±	²⁰⁶ Pb	±
	(ppm)	(ppm)		(ppm)	²⁰⁶ Pb	% ±	%	^{206*} Pb	% ±	²⁰⁶ Pb	% ±	²⁰⁶ Pb	% ±	²³⁵ U	% ±	²³⁸ U	% ±	Coeff	^{206*} Pb	% ±	²³⁸ U	(Ma)	²³⁸ U	(Ma)
09VL30-7.1	1990	858	0.45	75.2	4.80E-04	17	0.82	0.164	0.7	22.75	0.9	0.058	1.2	0.31	3	0.0436	0.9	0.31	0.0584	1.2	275	2.5	275.1	2.5
09VL30-12.1	1412	742	0.54	54.1	7.20E-04	24	1.34	0.196	0.7	22.41	0.9	0.063	2.6	0.32	6	0.044	1	0.16	0.0626	2.6	277.8	2.6	277.7	2.6
09VL30-2.1	885	303	0.35	34.3	1.20E-05	64	0.04	0.116	2.8	22.2	0.9	0.052	1	0.32	1.4	0.045	0.9	0.67	0.0523	1	283.9	2.6	283.9	2.7
09VL30-8.1	1473	378	0.27	57.2		0	0.02	0.083	1	22.12	0.9	0.052	0.8	0.32	1.2	0.0452	0.9	0.74	0.0521	0.8	285.1	2.6	285	2.6
09VL30-15.1	902	265	0.3	35.4	1.30E-05	64	0.07	0.099	1.2	21.89	0.9	0.053	1	0.33	1.4	0.0457	0.9	0.67	0.0527	1	287.9	2.7	287.8	2.7
09VL30-4.1	1353	335	0.26	53.5	1.60E-04	21	0.33	0.086	1	21.72	0.9	0.055	0.8	0.33	1.6	0.0459	0.9	0.59	0.0548	0.8	289.4	2.6	289.3	2.6
09VL30-14.1	2161	595	0.28	85.5	1.00E-04	39	0.17	0.097	0.8	21.7	0.9	0.053	0.6	0.33	1.6	0.046	0.9	0.57	0.0534	0.6	289.9	2.6	289.9	2.6
09VL30-1.1	1911	341	0.18	75.6	9.80E-06	45	<0.01	0.06	1	21.73	0.9	0.052	1.1	0.33	1.4	0.046	0.9	0.64	0.0517	1.1	290	2.6	290.2	2.6
09VL30-11.1	1327	556	0.43	52.6	2.00E-05	50	-0.02	0.139	0.9	21.65	0.9	0.052	0.9	0.33	1.3	0.0462	0.9	0.7	0.0519	0.9	291	2.7	291.2	2.7
09VL30-10.1	1048	357	0.35	42	2.60E-05	74	0.09	0.112	1.1	21.46	0.9	0.053	1	0.34	1.5	0.0466	0.9	0.64	0.0529	1	293.5	2.7	293.4	2.7
09VL30-5.1	2363	847	0.37	94.7	3.00E-05	41	0	0.117	1	21.42	0.9	0.052	0.6	0.33	1.2	0.0467	0.9	0.77	0.0522	0.6	293.9	2.6	294.1	2.6
09VL30-3.1	3940	1516	0.4	159.9	3.90E-04	9	0.68	0.144	1.2	21.18	0.9	0.058	0.5	0.34	1.4	0.0469	0.9	0.62	0.0577	0.5	295.4	2.6	295.5	2.6
09VL30-9.1	1295	446	0.36	52.4	1.40E-05	66	<0.01	0.114	1.6	21.26	0.9	0.052	1.3	0.33	1.6	0.047	0.9	0.58	0.0515	1.3	296.3	2.7	296.6	2.7
09VL30-13.1	3479	1033	0.31	141.9	1.40E-05	50	0.14	0.101	1	21.06	0.9	0.053	0.5	0.35	1.1	0.0475	0.9	0.84	0.0534	0.5	299	2.6	298.6	2.6
09VL30-6.1	4536	1414	0.32	187.6	9.30E-05	24	0.22	0.107	1.2	20.77	0.9	0.054	0.9	0.35	1.4	0.0481	0.9	0.61	0.0542	0.9	302.6	2.6	302.4	2.7
Spot name fo	llowe th		ontion v		oro y = con	anlo ni	imbor v	- grain n	umbor	- and -	onot r	umbor							*	bold ages	used to calcu	late weight	ed average/re	ported age

Spot name follows the convention x-y.z; where x = sample number, y = grain number and z = spot number.

Uncertainties reported at 1s and are calculated by using the SQUID program.

* refers to radiogenic Pb (corrected for common Pb).

Reported age errors are at the 2s uncertainty level and incorporate the 2s external spot-to-spot error of the R33 standard.

f206Pb refers to mole percent of total 206Pb that is due to common Pb, calculated using the 204Pb-method.

*bold ages used to calculate weighted average/reported age

Table DR3. CA-ID-TIMS zircon U-Pb results from Geological Survey of Canada

Sample 09VL27:

Analyzed at the Geological Survey of Canada-Ottawa using the methods of Parrish et al. (1987), Roddick et al. (1987), and Mattinson (2005).

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Mattinson, J.M., 2005, Zircon U-Pb chemical abrasion ("CA-TIMS") method: Combined annealing and multi-step partial dissolution analysis for improved precision and accuracy of zircon ages: Chemical Geology, v. 220, p. 47-66, doi:10.1016/j.chemgeo.2005.03.011.

Donjek Glacier batholith granodiorite (284.4 ± 0.9 Ma; sample 09VL27 - 07V 571040E 6773700N NAD 83)

									Isotopic F	Ratios⁵						Ages (Ma) ⁸			
Fract.1	Wt.	U	Pb ³	<u>206Pb⁴</u>	Pb⁵	208Pb	207Pb	±1SE	206Pb	±1SE	Corr.'	207Pb	±1SE	206Pb	±2SE	207Pb	±2SE	207Pb	±2SE	%
	ug	ppm	ppm	204Pb	pg	206Pb	235U	Abs	238U	Abs	Coeff.	206Pb	Abs	238U		235U		206Pb		Disc
A12-1 (Z,12)	403	18	18	1160.1	1	0.08	0.32607	0.00089	0.04517	0.00005	0.629	0.05236	0.00012	284.8	0.6	286.6	1.4	301.2	10.1	5.57
A2-1 (Z,2)	2237	97	97	6628.7	2	0.072	0.32439	0.00042	0.04508	0.00005	0.862	0.05219	0.00003	284.2	0.6	285.3	0.6	293.7	3	3.28
A4-1 (Z,4)	1295	56	56	645	7	0.063	0.32394	0.00095	0.04507	0.00005	0.717	0.05213	0.00012	284.2	0.7	284.9	1.5	291.1	10.1	2.42

A12-1 (Z,12) Co, Clr, Eu, St, nln, Pr, NM1, 100 A2-1 (Z,2) Clr, Co, Eu, nln, Pr, NM1,150 A4-1 (Z,4) Clr, Co, Eu, nln, Pr, NM1, 115

¹Z=zircon fraction; All fractions were single-grain and annealed and chemically abraded following Mattinson (2005), number in brackets refers to the number of hours of chemical abrasion.

²Zircon descriptions: Co=Colourless, Clr=Clear, nln=Numerous Inclusions, Eu=Euhedral, Pr=Prismatic, St=Stubby Prism, NM1=NonMag @1.8A 10SS; Number refers to size of zircon in um.

³Radiogenic Pb

⁴Measured ratio, corrected for spike and fractionation.

⁵Total common Pb in analysis corrected for fractionation and spike.

⁶Corrected for blank Pb and U and common Pb, errors quoted are 1 sigma absolute; procedural blank values for this study were from 0.1 pg U and 1 pg Pb for zircon analyses;

Pb blank isotopic composition is based on the analysis of procedural blanks; corrections for common Pb were made using Stacey-Kramers compositions.

⁷Correlation Coefficient.

⁸Corrected for blank and common Pb, errors quoted are 2 sigma in Ma.

The error on the calibration of the GSC ²⁰⁵Pb-²³³U-²³⁵U spike utilized in this study is 0.22% (2s).

Suite	Barnard Gl.	Donjek Gl.	Donjek Gl.	Donjek Gl.						
Field Collection No.	09VL48	09VL19	09VL21	09VLB37	09VLB35	09VL38	09VL39	09VL30	09VL31	09VL27
UTM Zone	07V	07V	07V	07V	07V	08V	08V	07V	07V	07V
Easting (NAD 83)	460102	528831	501051	502752	502778	336714	336714	554394	553474	571040
Northing (NAD83)	6780403	6749989	6754474	6766176	6766225	6686413	6686413	6783511	6792099	6773700
SiO ₂ (wt.%)	60.50	73.99	61.1	63.67	49.3	44.55	43.23	75.89	72.87	72.36
TiO ₂	0.478	0.065	0.569	0.284	1.013	0.972	2.013	0.122	0.263	0.19
Al ₂ O ₃	16.27	12.44	16.12	18.03	17.23	14.24	13.63	12.56	13.72	13.77
Fe ₂ O ₃ t	4.65	1.31	5.78	3.13	9.04	9.4	13.19	1.12	1.8	1.71
MnO	0.052	0.014	0.142	0.076	0.154	0.13	0.187	0.02	0.018	0.029
MgO	0.65	0.13	2.14	0.24	6.49	6.92	5.81	0.14	0.12	0.23
CaO	2.14	1.16	3.66	1.1	10.14	8.08	7.31	0.72	0.61	1.02
Na ₂ O	3.69	2.83	3.96	4.82	3.03	3.49	2.85	3.15	3.9	3.19
K ₂ O	4.76	5.32	4.19	6.79	0.96	0.34	0.16	5.04	4.34	5.75
P_2O_5	0.14	0.02	0.17	0.04	0.08	0.34	0.29	0.02	0.06	0.04
LOI	4.97	1.85	1.65	1.27	2.12	10.1	9.89	0.21	0.89	0.4
TOTAL	98.29	99.14	99.49	99.43	99.55	98.56	98.57	98.99	98.6	98.68
Sc (ppm)	4	1	9	3	33	34	35	< 1	1	2
V	23	<5	81	< 5	252	275	349	< 5	15	10
Cr	<20	<20	<20	< 20	120	190	30	< 20	< 20	< 20
Co	5	1	11	1	34	32	38	< 1	< 1	< 1
Ni	<20	<20	<20	< 20	70	30	20	< 20	< 20	< 20
Y	36	20.6	26.6	24.6	15.9	18	36.2	5.1	18.8	11.7
Zr	520	143	285	621	99	57	118	72	155	163
Hf	9.9	4.2	6.3	11.2	2.1	1.4	2.9	1.9	4.1	4.1
Nb	35.6	12.4	14.1	17.4	6.3	4.2	5.9	5.7	28.3	8
Та	2.6	1.5	1.34	0.92	0.42	0.26	0.37	0.57	4.49	0.45
Th	18.7	29.9	16.7	9.75	1.2	1.16	0.88	23.9	21.1	25.5
U	9.5	9.0	4.92	2.75	0.4	0.56	0.26	7.94	10.8	7.22
La	56.9	58.3	37.4	96.8	12.6	10.8	9.06	32.6	31	46.8
Ce	104	101	71.9	168	24.8	23.7	23.4	55.5	54.3	85.1
Pr	11.1	10.3	8.24	17.1	2.98	3.39	3.54	5.39	5.54	8.91
Nd	37.1	31.6	29.3	53.4	11.5	15.1	17	16.1	17.7	28.9
Sm	6.91	5.21	5.68	7.53	2.72	3.82	5.06	2.13	3.15	4.78
Eu	1.19	0.326	1.21	0.94	0.89	1.25	1.7	0.536	0.524	0.51
Gd	5.35	3.67	4.49	4.73	2.65	3.64	5.85	1.21	2.45	3.07
Tb	0.92	0.60	0.74	0.72	0.47	0.58	1.06	0.14	0.43	0.43
Dy	5.66	3.51	4.42	4.21	2.78	3.34	6.39	0.74	2.72	2.16
Но	1.16	0.69	0.87	0.85	0.52	0.63	1.22	0.15	0.56	0.39
Er	3.62	2.10	2.63	2.55	1.49	1.76	3.49	0.53	1.75	1.15
Tm	0.597	0.348	0.437	0.395	0.223	0.256	0.526	0.088	0.303	0.173
Yb	4.27	2.49	3.02	2.74	1.4	1.61	3.4	0.74	2.24	1.19
Lu	0.702	0.409	0.484	0.472	0.217	0.254	0.533	0.131	0.365	0.194

Table DR4. Lithogeochemical data for the Barnard Glacier and Donjek Glacier suites

Page 1/2

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Donjek Gl.	Donjek Gl.	Donjek Gl.	Donjek Gl.
09VL28	09VL37	09VL16	09VL05
07V	08V	08V	08V
571043	336904	346394	638155
6773718	6687636	6712977	6742335
46.21	48.43	44.72	45.69
3.313	2.129	2.432	2.266
15.66	13.33	14.44	16.12
11.81	15.09	10.16	11.52
0.182	0.235	0.148	0.173
5.01	5.32	8.46	5.01
8.35	9.27	8.96	10.32
3.66	2.48	3.05	2.85
2.02	0.54	2.09	0.41
1.54	0.19	0.55	0.5
1.08	1.93	4.17	4.05
98.83	98.94	99.19	98.91
19	41	26	22
242	441	258	235
< 20	50	170	20
21	43	37	34
< 20	40	120	30
39.9	32.2	20.2	24.8
153	141	152	154
3.3	3.4	3.3	3.5
24.6	11.7	32	43.2
18	0.83	2 27	3
2.13	0.95	3.1	3.53
1.31	0.31	1.11	1.12
39.4	10.5	37.4	31.9
90.5	25.5	77.8	62.1
12.4	37	9.63	7.6
52.6	17.3	37.3	30.5
11	4 96	6.91	6.5
3 24	1.63	2 13	2 25
9.65	5.6	5 46	5.88
1 44	0.97	0.40	0.9
7 77	5.82	4 15	4 99
1.39	1 12	0.71	0.91
3.78	3.21	1 95	25
0.516	0.484	0.268	2.J
3 05	3 02	1 61	2 10
0 474	0.02	0 241	0.327
	Donjek Gl. 09VL28 07V 571043 6773718 46.21 3.313 15.66 11.81 0.182 5.01 8.35 3.66 2.02 1.54 1.08 98.83 19 242 < 20 21 < 20 39.9 153 3.3 24.6 1.8 2.13 1.31 39.4 90.5 12.4 52.6 11 3.24 9.65 1.44 7.77 1.39 3.78 0.516 3.05 0.474	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Table DR4. Lithogeochemical data for the Barnard Glacier and Donjek Glacier suites (continued)

Page 2/2

Suite	Field Collection No.	Age (Ma)	Sm (ppm)	Nd (ppm)	¹⁴³ Nd/ ¹⁴⁴ Nd _m	¹⁴³ Nd/ ¹⁴⁴ Nd _i	¹⁴⁷ Sm/ ¹⁴⁴ Nd	Epsilon Nd(t)	Т _{рм} (Ма)
Barnard Glacier	09VL48	307	6.06	32.36	0.512594 (11)	0.512367	0.1132	2.43	788
Barnard Glacier	09VL19	307	4.55	26.94	0.512419 (11)	0.512214	0.1021	-0.56	948
Barnard Glacier	09VL21	304	5.47	27.76	0.512493 (11)	0.512256	0.1191	0.19	998
Barnard Glacier	09VLB35	301	2.78	12.23	0.512695 (12)	0.512424	0.1375	3.39	837
Barnard Glacier	09VL38	304	5.21	20.57	0.512901 (13)	0.512597	0.1531	6.84	535
Barnard Glacier	09VL39	304	6.01	21.65	0.512889 (13)	0.512556	0.1678	6.04	743
Donjek Glacier	09VL31	291	2.91	16.06	0.512664 (11)	0.512456	0.1095	3.75	658
Donjek Glacier	09VL27	284	4.89	28.94	0.512571 (11)	0.512381	0.1021	2.12	742
Donjek Glacier	09VL28	286	10.75	51.04	0.512788 (12)	0.51255	0.1274	5.46	576
Donjek Glacier	09VL37	286	5.09	17.83	0.512907 (13)	0.512584	0.1727	6.13	767
Donjek Glacier	09VL16	286	7.13	37.75	0.512776 (12)	0.512563	0.1142	5.72	518
Donjek Glacier	09VL05	286	6.37	29.67	0.512741 (12)	0.512498	0.1298	4.46	678
Suite	Field Collection No.	Age (Ma)	Rb (ppm)	Sr (ppm)	Rb/Sr	⁸⁷ Sr/ ⁸⁶ Sr _m	⁸⁷ Rb/ ⁸⁶ Sr	⁸⁷ Sr/ ⁸⁶ Sr _i	
Barnard Glacier	09VL48	307	130	155	0.8387	0.714651 (10)	2.429	0.704037	
Barnard Glacier	09VL21	304	131	353	0.3711	0.710417 (11)	1.074	0.705769	
Donjek Glacier	09VL31	291	165	173	0.9538	0.713805 (11)	2.762	0.702367	
Donjek Glacier	09VL27	284	130	163	0.7975	0.713634 (10)	2.310	0.704300	
Donjek Glacier	09VL28	286	46	1162	0.0396	0.703824 (11)	0.115	0.703358	

Table DR5. Nd-Sr isotopic data for the Barnard Glacier and Donjek Glacier suites