

Table 1. *Thermal ionization mass spectrometry U-Pb data and ages.*

Fraction	Weight [mg]	Concentration		Measured		Corrected Atomic Ratios *						Ages [Ma]			
		U [ppm]	Pb <sup>R</sup>	Common Pb <sup>T</sup> [pg]	<sup>206</sup> Pb <sup>204</sup> Pb	<sup>208</sup> Pb <sup>206</sup> Pb	<sup>206</sup> Pb <sup>238</sup> U	<sup>207</sup> Pb <sup>235</sup> U	<sup>207</sup> Pb <sup>206</sup> Pb	<sup>206</sup> Pb <sup>238</sup> U	<sup>207</sup> Pb <sup>235</sup> U	<sup>207</sup> Pb <sup>206</sup> Pb			
<b>Itilli Diorite (355629)</b>															
Z1 3 b clr elong	0.004	180	119.5	6	4166	0.1499	0.56364	170	17.1617	502	0.22083	30	2882	2944	2987
Z2 5 clr elong	0.004	205	135.4	7	3598	0.1358	0.56643	154	17.1472	476	0.21956	22	2893	2943	2977
Z3 4 clr elong	0.005	140	97.5	9	2743	0.1673	0.58294	134	17.9261	388	0.22303	30	2961	2986	3003
Z4 1 sm clr sub	0.001	133	92.5	1	3052	0.1601	0.58255	148	17.9938	468	0.22402	24	2959	2989	3010
Z5 sm prsm clr sub	0.002	136	93.6	3	3281	0.1346	0.58724	134	18.1568	436	0.22425	20	2978	2998	3011
<b>Saqqaq Rhyolite (464926)</b>															
Z1 5 b clr elong	0.002	221	132.6	8	1691	0.1786	0.50848	152	13.4865	404	0.19236	24	2650	2714	2762
Z2 b clr elong	0.004	145	90.6	5	3783	0.1749	0.53038	200	14.4498	538	0.19759	22	2743	2780	2806
Z3 3 clr elong	0.009	160	101.3	2	24676	0.1605	0.54220	138	14.9519	400	0.20000	14	2793	2812	2826
Z4 5 blocky frags	0.006	100	65.9	6	3383	0.2080	0.54382	102	15.0041	310	0.20010	14	2799	2816	2827
<b>Rodebay Orthogneiss (449376)</b>															
Z1 4 med elong clr bge	0.004	422	247.4	13	3926	0.0904	0.53069	146	14.2741	406	0.19508	16	2744	2768	2785
Z2 1 2:1 clr sub	0.001	175	102.2	1	4775	0.0731	0.53583	188	14.4034	504	0.19496	24	2766	2777	2784
Z3 1 2:1 clr sub	0.001	180	104.6	1	4414	0.0697	0.53246	152	14.3211	422	0.19507	22	2752	2771	2785
Z4 3 v sm clr clrsls	0.001	119	71.2	4	1041	0.1050	0.53518	172	14.1738	498	0.19208	34	2763	2761	2760
<b>Unmylonitized Orthogneiss (464941)</b>															
Z1 1 sm ellip clr	0.001	99	60.0	2	1377	0.1077	0.54113	202	14.5989	546	0.19567	36	2788	2789	2790
Z2 1 elong sub clr	0.001	129	77.3	3	2106	0.0900	0.54154	176	14.6166	450	0.19576	36	2790	2791	2791
T1 clr brn	0.103	188	137.9	855	736	0.4880	0.50944	106	12.9146	302	0.18386	12	2654	2673	2688
T2 clr yell	0.079	41	25.5	171	562	0.3769	0.47052	94	11.2339	258	0.17316	14	2486	2543	2588
<b>Mylonitized Orthogneiss (464938)</b>															
Z1 2 med clr anh bge	0.002	317	192.7	2	15724	0.0805	0.55175	112	15.3824	330	0.20220	16	2832	2839	2844
Z2 3 sm clr anh bge	0.002	463	271.1	1	20510	0.0483	0.54581	120	15.0098	322	0.19945	22	2808	2816	2822
Z3 1 sm anh	0.001	204	121.3	2	2563	0.0578	0.54956	152	15.2105	422	0.20074	24	2823	2829	2832
Z4 1 sm clr anh	0.001	255	159.9	5	686	0.0968	0.55973	176	15.7653	530	0.20428	28	2866	2863	2861
<b>Mylonitized Orthogneiss (464944)</b>															
Z1 sub euh clr yel	0.001	894	513.0	2	12658	0.0416	0.53836	120	14.7108	338	0.19818	18	2777	2797	2811
Z2 clr yel euh	0.003	102	59.6	2	5514	0.0550	0.54194	396	14.9690	1096	0.20033	22	2792	2813	2829
Z3 sub rnd clr	0.001	218	125.8	12	547	0.0509	0.53787	140	14.4744	420	0.19518	30	2775	2781	2786
Z4 drk clr euh	0.003	132	76.6	2	6144	0.0520	0.53985	240	14.8176	640	0.19907	30	2783	2804	2819
T1 brn clr	0.121	52	37.3	257	742	0.5795	0.47455	90	11.3874	248	0.17404	12	2504	2555	2597
T2 yel clr	0.055	28	13.2	95	437	0.1513	0.41936	96	9.0033	232	0.15571	18	2258	2338	2410

**Mafic Gneiss (464940)**

Z1 6 med anh clr clrsls	0.013	169	96.1	13	5475	0.0429	0.53513	132	14.3334	362	0.19426	18	2763	2772	2779
Z2 1 sm clr clrsls	0.001	8	4.3	5	64	0.1267	0.49343	842	12.8707	2442	0.18918	138	2586	2670	2735
Z3 1 sm clr clrsls	0.001	65	37.3	2	902	0.0335	0.54046	184	14.5065	534	0.19467	30	2785	2783	2782

**Tonalite Orthogneiss (449375)**

Z1 7 sm-med elong clr	0.005	319	187.5	10	5185	0.1674	0.50441	140	13.1327	358	0.18883	22	2633	2689	2732
Z2 1 elong clr clrsls	0.002	72	47.9	1	6164	0.2832	0.52624	182	13.9975	474	0.19292	28	2726	2750	2767
Z3 1 elong clr clrsls	0.001	51	33.1	3	666	0.2251	0.52845	310	13.9829	842	0.19191	42	2735	2749	2759
Z4 4 v sm clr clrsls	0.002	224	147.9	1	12854	0.2793	0.52076	142	13.8062	370	0.19228	22	2702	2737	2762

**Pegmatite (449374)**

Z1 brn clr tip lg	0.009	1708	543.1	3	128864	0.0145	0.32832	66	5.0871	110	0.11237	6	1830	1834	1838
Z2 brn clr tip	0.005	1875	599.5	4	44519	0.0177	0.32909	88	5.0990	140	0.11238	8	1834	1836	1838
Z3 2 sm clr brn rnd	0.004	1756	546.7	4	34046	0.0140	0.32176	86	4.9480	134	0.11153	10	1798	1810	1825
Z4 clr pink ellip anh	0.021	163	71.7	3	31558	0.0708	0.41364	120	9.3243	276	0.16349	14	2232	2370	2492

**Amphibolite (464947)**

Z1 8 rnd clr anh	0.008	17	5.5	19	163	0.0287	0.32529	124	4.9698	294	0.11080	48	1816	1814	1813
Z2 16 clr rnd anh	0.006	19	6.0	15	173	0.0264	0.32521	92	4.9758	202	0.11097	28	1815	1815	1815
Z3 21 clr rnd anh	0.031	32	10.4	3	7244	0.0350	0.33239	72	5.3425	120	0.11657	10	1850	1876	1904
Z4 3 clr rnd anh	0.004	74	18.5	2	2188	0.0067	0.26334	80	3.7905	118	0.10440	14	1507	1591	1704

**Synkinematic Granite (464948)**

Z1 brn tips	0.041	291	86.3	577	414	0.0145	0.30715	66	4.6172	126	0.10902	16	1727	1752	1783
Z2 3 brn tips	0.003	1368	416.6	19	4625	0.0091	0.31654	72	4.8054	116	0.11010	10	1773	1786	1801
Z3 7 brn tips	0.004	775	367.8	22	3699	0.1468	0.42208	88	9.3271	212	0.16027	10	2270	2371	2459
Z4 2 clr bge tips	0.001	1216	381.0	21	1189	0.0068	0.32589	64	5.0001	112	0.11128	12	1818	1819	1820

**Notes:**

\*Ratios corrected for fractionation, laboratory Pb blank (1 pg for zircon, 3 pg for titanite), initial common Pb calculated using Pb isotopic compositions of Stacey and Kramers (1975) and 0.25 pg U laboratory blank. Two-sigma uncertainties on isotopic ratios, calculated with a modified unpublished error propagation program written by L. Heaman, are reported after the ratios and refer to the final digits. All fractions were well abraded (Krogh, 1982). Pb<sup>R</sup> refers to radiogenic Pb; Common Pb<sup>T</sup> refers to total common Pb. Analyses reported in italics are not plotted. Sample numbers in brackets refer to the permanent catalogue system of the Geological Survey of Denmark and Greenland.

Abbreviations: anh=anhedral; b=best; bge=beige; brn=brown; clr=clear; clrsls=colourless; drk=dark; ellip=elliptical; elong=elongate; euh=euhedral; frags=fragments; lg=large (+130um); med=medium (90-130 um); prsm(s)=prisms; rnd=round; sm=small (50-90 um); sub=subhedral; v=very; yel=yellow.

Mineral Code: T= titanite; Z= zircon.