

Table 1 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)				
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	207Pb*/206Pb*								
06	23.02	517	0.97	0.03787	1.0	0.3028	4.4	0.0580	4.2	0.01179	1.8	241.5	2.8	267.4	24.4	518.6	42.0	241.5	5.8
56	105.2	2269	0.96	0.03941	0.5	0.2850	1.6	0.0525	1.6	0.01221	0.9	251.7	1.3	263.9	7.4		10.2	251.7	5.4
10	67.02	1456	0.91	0.03949	0.5	0.2849	1.8	0.0523	1.7	0.01223	1.3	252.6	1.5	271.2	14.0	450.8	21.3	252.6	5.5
07	28.01	594	0.92	0.04024	0.7	0.2955	2.5	0.0533	2.4	0.01307	1.1	254.9	1.9	241.6	9.8	133.5	5.6	254.9	5.7
22	0.93	20	0.51	0.04337	3.3	0.7325	12.	0.1225	12.	0.02275	6.0	257.9	8.7	331.5	77.7	902.7	163.0	257.9	10.3
08	49.49	1218	0.28	0.04098	0.9	0.3118	1.7	0.0552	1.5	0.01406	1.5	258.5	2.2	261.2	6.3	290.2	6.5	258.5	5.9
94	33.51	633	1.49	0.04003	0.8	0.2982	2.6	0.0540	2.5	0.01212	1.3	259.2	2.7	302.9	25.8	685.5	48.8	259.2	6.1
10	34.08	816	0.36	0.04107	0.7	0.3066	3.1	0.0541	3.0	0.01386	2.6	259.6	2.0	260.0	11.5	271.5	11.8	259.6	5.8
09	7.04	159	0.56	0.04121	1.2	0.2987	4.6	0.0526	4.5	0.01373	2.4	260.1	3.0	242.9	14.4	92.2	5.8	260.1	6.2
17	260.1	4542	1.97	0.03944	1.0	0.2969	1.9	0.0546	1.6	0.01162	2.8	260.6	4.3	373.0	46.9	1176.8	104.0		
66	14.92	318	0.82	0.04115	1.2	0.3099	3.7	0.0546	3.5	0.01295	2.0	261.7	3.3	276.7	22.4	419.5	31.4	261.7	6.4
32	62.68	1541	0.25	0.04144	0.6	0.3127	2.1	0.0547	2.0	0.01324	2.5	262.1	1.6	273.8	7.0	379.3	9.0	262.1	5.7
25	119.4	2864	0.34	0.04147	0.4	0.3034	1.3	0.0531	1.2	0.01319	0.9	262.5	1.0	266.7	5.6	310.2	6.2	262.5	5.6
16	50.40	1048	0.84	0.04184	0.6	0.3125	2.3	0.0542	2.2	0.01318	1.5	262.6	3.7	299.9	43.5	574.6	73.3	262.6	6.7
10	22.69	469	0.86	0.04167	0.9	0.3063	3.6	0.0533	3.5	0.01389	2.3	262.9	2.9	248.3	27.3	124.6	14.5	262.9	6.2
14	13.67	294	0.71	0.04179	0.9	0.3241	3.4	0.0562	3.3	0.01336	2.0	264.9	2.6	277.5	17.6	397.7	23.6	264.9	6.1
10	89.31	2262	0.10	0.04200	0.4	0.3152	1.5	0.0544	1.4	0.01411	2.1	265.0	1.1	273.8	4.1	350.2	4.9	265.0	5.7
34	5.92	133	0.51	0.04196	1.3	0.2913	6.5	0.0503	6.3	0.01389	3.2	265.1	3.4	243.8	20.1	55.7	5.0	265.1	6.5
10	68.53	1686	0.21	0.04193	0.8	0.3083	1.7	0.0533	1.5	0.01311	1.6	265.3	2.1	273.6	4.7	348.8	5.3	265.3	6.0
60	76.99	1672	0.67	0.04187	1.0	0.3116	3.9	0.0540	3.8	0.01347	2.8	265.5	3.0	268.1	20.3	304.3	22.5	265.5	6.3
pooled age (N = 98 of 114, MSWD = 5.5, 1 σ absolute external error)																277.4	5.5		

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 2 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)							
				$\frac{206\text{Pb}}{238\text{U}}$	$\frac{207\text{Pb}}{235\text{U}}$	$\frac{207\text{Pb}}{206\text{Pb}}$	$\frac{208\text{Pb}}{232\text{Th}}$	$\frac{206\text{Pb}^*}{238\text{U}}$	$\frac{207\text{Pb}^*}{235\text{U}}$	$\frac{207\text{Pb}^*}{206\text{Pb}^*}$												
44	21.70	443	0.98	0.04143	0.9	0.3109	3.6	0.0544	3.5	0.01280	2.4	265.6	4.3	296.0	51.8	563.8	86.9	90	-0.55	2.23	265.6	7.0
11	103.5	2480	0.30	0.04204	0.5	0.3118	1.3	0.0538	1.3	0.01316	1.2	266.1	1.3	276.9	4.1	373.2	5.1	96	-0.03	3.49	266.1	5.7
23	156.6	3214	0.74	0.04195	0.5	0.3150	1.9	0.0545	1.8	0.01331	1.5	266.2	1.3	274.3	8.7	357.4	10.7	97	0.10	1.71	266.2	5.8
81	2.79	61	0.61	0.04241	2.0	0.4007	7.0	0.0685	6.7	0.01453	5.4	267.0	5.5	310.0	31.9	659.2	56.9	86	0.86	5.00	267.0	7.9
49	84.54	1916	0.49	0.04216	0.5	0.3068	1.5	0.0528	1.4	0.01307	1.2	267.4	2.0	272.6	23.5	326.6	27.3	98	-0.02	3.04	267.4	6.0
95	2.88	58	0.96	0.04255	1.8	0.4194	7.3	0.0715	7.1	0.01373	3.2	268.1	5.1	318.0	36.5	719.2	68.2	84	1.01	1.12	268.1	7.6
61	46.80	982	0.75	0.04245	0.8	0.3276	2.1	0.0560	2.0	0.01350	1.4	269.4	2.3	283.6	14.4	416.5	19.6	95	0.10	3.39	269.4	6.1
86	63.34	1460	0.38	0.04265	0.5	0.3131	2.1	0.0532	2.1	0.01339	1.5	270.1	1.3	276.4	7.9	337.1	9.3	98	0.01	1.71	270.1	5.8
43	4.25	95	0.46	0.04286	1.5	0.3539	7.0	0.0599	6.8	0.01408	3.7	270.3	4.1	287.7	22.8	440.7	32.1	94	0.51	2.41	270.3	7.0
64	2.24	49	0.58	0.04322	2.0	0.4785	8.9	0.0803	8.7	0.01511	4.6	270.3	5.4	345.1	37.2	895.6	74.6	78	1.42	0.99		
02	45.02	1018	0.42	0.04286	0.7	0.3236	1.8	0.0548	1.6	0.01420	1.3	270.5	2.0	269.5	9.9	269.1	9.7	100	0.38	3.73	270.5	6.0
10	19.03	452	0.24	0.04295	0.6	0.3137	2.7	0.0530	2.6	0.01410	1.9	271.1	1.6	269.6	7.5	261.0	7.2	101	0.19	5.00	271.1	5.9
75	3.86	86	0.50	0.04288	1.4	0.3806	8.0	0.0644	7.9	0.01351	4.5	271.6	4.0	323.4	27.0	725.4	49.9	84	0.11	1.30	271.6	7.0
11	163.3	3783	0.34	0.04291	0.4	0.3263	1.2	0.0552	1.1	0.01356	1.2	271.7	1.0	285.9	4.8	410.8	6.4	95	0.02	2.15	271.7	5.8
10	15.53	320	0.82	0.04264	1.0	0.3105	3.5	0.0528	3.4	0.01308	2.2	272.0	2.8	289.9	17.8	451.7	25.5	94	-0.39	1.76	272.0	6.4
91	22.31	423	1.20	0.04248	0.6	0.3200	3.5	0.0546	3.4	0.01300	1.2	272.2	1.9	302.7	15.7	566.4	25.8	90	-0.53	1.39	272.2	6.0
41	90.03	1625	1.44	0.04229	0.9	0.3174	1.7	0.0544	1.5	0.01294	1.2	272.5	2.7	309.5	21.3	626.7	36.9	88	-0.76	7.88	272.5	6.4
90	38.49	815	0.69	0.04291	1.0	0.3286	2.7	0.0555	2.5	0.01325	1.7	272.9	3.0	296.1	22.9	496.4	34.8	92	-0.19	3.00	272.9	6.5
79	25.97	465	1.29	0.04321	1.9	0.4199	6.3	0.0705	6.0	0.01501	5.0	272.9	6.9	317.7	66.7	684.2	121.0	86	1.01	2.01	272.9	8.9
78	5.22	113	0.57	0.04328	1.4	0.3447	5.4	0.0578	5.2	0.01378	3.0	273.6	3.9	289.0	19.7	426.0	26.8	95	0.29	1.40	273.6	7.0
														pooled age (N = 98 of 114, MSWD = 5.5, 1 σ absolute external error)			277.4				5.5	

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 3 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)				
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	207Pb*/206Pb*								
65	16.57	339	0.80	0.04308	0.8	0.3125	3.9	0.0526	3.8	0.01343	1.7	273.7	2.7	277.9	24.5	327.4	28.0	273.7	6.3
04	8.36	174	0.72	0.04317	0.9	0.3197	4.3	0.0537	4.2	0.01379	2.3	273.9	2.6	276.4	19.6	312.0	21.6	273.9	6.3
80	51.27	979	1.16	0.04258	0.6	0.3170	2.1	0.0540	2.0	0.01281	1.1	273.9	2.1	316.5	20.1	664.7	35.9	273.9	6.1
83	3.28	72	0.47	0.04365	1.2	0.4222	7.3	0.0702	7.2	0.01522	5.0	274.3	3.5	325.3	27.4	717.8	50.2	274.3	6.8
27	36.62	666	1.20	0.04346	0.7	0.3200	2.9	0.0534	2.8	0.01465	2.3	274.5	2.6	232.9	27.5	0.8	0.1	274.5	6.3
20	101.7	2413	0.21	0.04344	0.6	0.3301	1.5	0.0551	1.4	0.01396	1.6	274.5	1.6	286.8	5.0	393.1	6.2	274.5	6.0
77	42 ⁰ ₁₅	955	0.37	0.04351	0.5	0.3000	1.9	0.0500	1.9	0.01341	1.5	275.7	1.5	271.9	7.5	246.2	6.7	275.7	6.0
54	19.50	427	0.48	0.04367	0.7	0.3304	3.2	0.0549	3.1	0.01383	1.7	276.3	1.9	286.3	10.6	377.1	13.2	276.3	6.1
93	53.07	1222	0.28	0.04377	0.7	0.3174	1.7	0.0526	1.5	0.01409	1.5	276.5	1.8	276.1	6.1	277.5	5.9	276.5	6.1
29	4.95	108	0.47	0.04381	1.3	0.3379	6.9	0.0559	6.8	0.01422	3.6	276.6	3.6	280.3	22.7	321.2	25.2	276.6	6.8
55	3.48	74	0.60	0.04385	1.6	0.3967	6.5	0.0656	6.3	0.01411	3.8	277.1	4.4	326.5	26.3	706.1	47.3	277.1	7.3
84	34.46	751	0.52	0.04357	0.6	0.3395	2.6	0.0565	2.5	0.01312	1.6	277.3	2.1	314.8	19.2	612.1	32.4	277.3	6.2
85	8.75	177	0.76	0.04380	1.4	0.3206	4.9	0.0531	4.7	0.01420	2.5	277.3	4.2	269.0	32.5	214.1	26.4	277.3	7.2
52	49.37	1047	0.49	0.04447	0.7	0.3208	2.7	0.0523	2.6	0.01631	2.4	277.7	3.0	223.7	38.5	0.3	0.1	277.7	6.6
62	14.23	273	1.03	0.04347	1.0	0.3060	4.6	0.0511	4.5	0.01318	2.3	279.6	5.1	317.1	58.9	620.1	100.1	279.6	7.8
69	14.79	312	0.53	0.04449	0.8	0.3180	3.9	0.0518	3.8	0.01485	2.4	280.5	2.4	258.2	13.6		5.4	280.5	6.4
35	167.1	3013	1.27	0.04386	0.5	0.3217	1.1	0.0532	1.0	0.01364	0.8	280.5	2.0	292.9	20.5	418.9	27.5	280.5	6.2
39	21 ⁰ ₆₂	499	0.22	0.04449	0.7	0.3196	2.8	0.0521	2.7	0.01454	2.8	280.7	2.0	275.5	8.4	236.9	7.2	280.7	6.2
73	68.41	1289	1.06	0.04401	0.6	0.3234	2.0	0.0533	1.9	0.01362	1.0	281.1	2.7	297.6	29.7	450.0	41.7	281.1	6.5
67	211.9	3715	1.49	0.04333	0.4	0.3312	1.7	0.0554	1.6	0.01295	1.0	281.2	2.3	342.7	27.9	816.0	53.6	277.4	5.5
pooled age (N = 98 of 114, MSWD = 5.5, 1 σ absolute external error)																277.4	5.5		

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 4 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)				
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	208Pb*/206Pb*								
46	171.2	3199	1.11	0.04398	0.6	0.3222	1.3	0.0531	1.1	0.01335	1.0	281.9	2.1	310.2	19.4	550.2	30.7	281.9	6.3
48	6.91	144	0.49	0.04453	1.2	0.3519	7.0	0.0573	6.9	0.01395	3.8	282.0	3.5	308.5	23.0	521.5	34.8	282.0	6.9
74	14.82	291	0.81	0.04462	0.7	0.3124	3.1	0.0508	3.0	0.01441	1.6	282.4	2.3	259.6	19.4	78.1	6.3	282.4	6.4
11	6.83	137	0.72	0.04475	1.1	0.3600	5.0	0.0583	4.9	0.01424	2.7	283.2	3.3	301.4	20.3	458.4	28.4	283.2	6.8
11	78.37	1469	1.06	0.04444	0.5	0.3270	1.6	0.0534	1.6	0.01329	1.0	285.3	2.0	325.0	21.1	639.1	35.7	285.3	6.3
01	6.57	136	0.50	0.04566	1.9	0.3988	5.6	0.0633	5.2	0.01681	4.4	285.5	5.4	286.5	22.1	306.6	22.8	285.5	8.1
11	8.69	179	0.57	0.04531	1.2	0.3668	5.3	0.0587	5.2	0.01460	2.8	286.1	3.4	305.5	20.1	466.2	28.1	286.1	6.9
28	69.58	1266	1.13	0.04488	0.7	0.3205	2.7	0.0518	2.6	0.01382	1.6	286.1	3.4	297.4	42.0	403.9	54.1	286.1	6.9
03	46.48	1001	0.42	0.04517	0.5	0.3308	1.7	0.0531	1.6	0.01384	1.3	286.3	1.5	297.6	10.8	394.6	13.6	286.3	6.2
72	21.29	409	0.88	0.04500	1.1	0.3401	4.4	0.0548	4.2	0.01403	2.0	286.3	3.4	306.2	25.2	475.8	36.0	286.3	6.9
12	2.29	48	0.57	0.04487	2.8	0.4305	11.	0.0696	10.	0.01268	6.1	286.4	7.9	397.0	38.1	1111.8	76.1		
98	20.24	391	0.80	0.04541	0.9	0.3475	3.2	0.0555	3.1	0.01486	1.8	286.5	2.7	276.6	20.2	210.8	15.7	286.5	6.6
13	88.20	1780	0.65	0.04530	0.4	0.3322	1.3	0.0532	1.2	0.01424	0.9	287.1	1.2	290.1	9.0	326.4	9.9	287.1	6.2
15	9.79	193	0.67	0.04560	1.3	0.3811	6.3	0.0606	6.1	0.01576	3.7	287.1	4.0	300.3	27.5	415.7	35.7	287.1	7.3
11	99.98	2239	0.25	0.04549	0.5	0.3376	1.3	0.0538	1.2	0.01437	1.4	287.3	1.3	294.5	4.2	356.6	4.7	287.3	6.2
30	9.98	201	0.61	0.04559	1.4	0.3637	5.5	0.0578	5.3	0.01538	3.8	287.3	4.3	291.7	27.1	338.3	30.4	287.3	7.4
19	67.38	1431	0.44	0.04547	0.5	0.3298	1.8	0.0526	1.7	0.01443	1.0	287.4	1.4	286.1	6.3	283.8	6.1	287.4	6.2
89	10.67	216	0.68	0.04513	1.6	0.3539	5.3	0.0569	5.1	0.01364	3.1	287.8	5.0	325.0	33.0	616.6	54.2	287.8	7.9
11	6.06	125	0.56	0.04554	1.5	0.3290	6.3	0.0524	6.1	0.01427	3.3	287.9	4.5	280.7	27.8	232.7	23.3	287.9	7.5
57	31.28	664	0.49	0.04514	0.5	0.3330	2.4	0.0535	2.3	0.01325	1.5	288.2	1.8	314.8	14.9	531.8	22.6	288.2	6.3
pooled age (N = 98 of 114, MSWD = 5.5, 1 σ absolute external error)																277.4	5.5		

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 5 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)							
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	207Pb*/206Pb*											
31	17.59	339	0.70	0.04626	0.9	0.3507	3.4	0.0550	3.3	0.01657	1.6	288.5	2.8	229.0	15.9	0.3	0.0	126	1.75	2.26		
33	320.2	3977	3.38	0.04117	0.7	0.3075	1.2	0.0542	1.0	0.01355	3.0	288.7	17.7	510.8	184.	1760.3	380.7	57	-6.97	248.9		
70	65.35	1228	0.92	0.04550	0.7	0.3193	2.0	0.0509	1.9	0.01406	1.4	290.0	3.3	299.6	35.6	390.3	44.2	97	-0.44	4.05	290.0	6.9
68	4.71	99	0.50	0.04580	2.0	0.4217	7.4	0.0668	7.1	0.01408	4.2	290.6	6.0	363.8	29.9	871.7	55.9	80	-0.17	2.51		
87	5.61	109	0.72	0.04624	1.3	0.3455	6.0	0.0542	5.9	0.01505	2.7	291.6	3.9	281.4	26.0	210.9	20.0	104	0.47	5.00	291.6	7.3
18	160.3	2190	2.93	0.03960	2.2	0.2994	3.7	0.0548	3.0	0.01259	4.0	292.4	34.7	687.3	289.	2407.5	520.4	43	-13.99	58.03		
10	4.89	99	0.57	0.04626	1.4	0.3396	6.5	0.0533	6.3	0.01460	3.4	292.6	4.0	294.2	21.1	316.6	22.1	99	0.06	5.00	292.6	7.3
11	5.29	99	0.65	0.04746	1.9	0.3898	6.5	0.0596	6.2	0.01931	5.9	293.4	5.7	222.5	32.2	0.2	0.0	132	2.53	5.00		
38	6.99	128	0.83	0.04698	1.6	0.3599	6.7	0.0556	6.5	0.01646	3.1	293.9	4.7	248.1	29.5	0.7	0.1	118	1.47	1.83	293.9	7.8
96	6.93	134	0.71	0.04643	1.7	0.3610	6.8	0.0564	6.5	0.01489	5.2	294.4	5.1	317.2	27.8	500.1	39.7	93	-0.10	2.09	294.4	8.0
63	39.69	829	0.40	0.04672	0.7	0.3353	2.4	0.0521	2.3	0.01509	1.2	294.7	2.1	285.2	8.0	215.9	6.1	103	0.20	2.77	294.7	6.5
76	29.90	438	2.15	0.04484	1.0	0.3238	3.3	0.0524	3.1	0.01381	2.6	294.7	6.2	381.7	71.1	987.2	140.4	77	-2.45	4.34	294.7	8.8
47	31.17	632	0.52	0.04662	0.7	0.3373	2.3	0.0525	2.2	0.01456	1.4	295.8	2.2	296.4	15.4	316.2	16.2	100	-0.03	2.14	295.8	6.6
40	11.01	214	0.70	0.04670	1.2	0.3864	6.0	0.0600	5.9	0.01425	2.1	296.5	3.7	339.9	22.4	661.3	37.2	87	-0.20	1.52	296.5	7.3
51	18.64	366	0.48	0.04775	0.9	0.3771	2.7	0.0573	2.5	0.01878	2.4	297.0	2.9	248.5	16.1		0.6	120	1.73	2.13		
45	64.58	1113	1.17	0.04678	0.7	0.3483	2.2	0.0540	2.1	0.01482	1.1	297.3	2.9	297.0	30.2	318.0	31.9	100	0.15	4.47	297.3	6.9
05	41.82	746	0.99	0.04703	0.5	0.3403	1.8	0.0525	1.7	0.01514	1.0	297.5	2.0	276.2	21.2	121.9	10.0	108	0.49	2.01	297.5	6.6
99	18.82	304	1.13	0.04888	1.7	0.4062	6.6	0.0603	6.4	0.01899	3.9	299.1	5.8	148.3	59.9	0.0	0.0	202	4.22	1.83		
71	4.99	96	0.59	0.04782	1.7	0.4097	6.3	0.0621	6.1	0.01651	4.0	299.4	5.2	301.5	26.6	330.0	28.3	99	1.11	2.16	299.4	8.2
11	71.05	1486	0.30	0.04813	0.9	0.3623	2.0	0.0546	1.8	0.01407	1.5	305.2	3.0	333.6	15.5	542.0	22.5	91	-0.46	5.00	305.2	7.1
pooled age (N = 98 of 114, MSWD = 5.5, 1σ absolute external error)																277.4	5.5					

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 6 of 6. U-Th-Pb isotope data for sample Lake Never Anorthosite (OU:81237).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)							
				$\frac{^{206}\text{Pb}}{^{238}\text{U}}$	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$	$\frac{^{208}\text{Pb}}{^{232}\text{Th}}$	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\frac{^{208}\text{Pb}^*}{^{206}\text{Pb}^*}$											
21	38.15	639	1.13	0.04844	0.9	0.3501	2.6	0.0524	2.4	0.01539	1.3	307.3	4.1	291.0	46.9	188.7	31.8	106	0.31	3.76	307.3	7.6
26	28.44	501	0.85	0.04876	1.0	0.3610	2.3	0.0537	2.1	0.01639	2.5	307.3	4.2	284.0	44.0	116.0	19.4	108	0.65	3.23	307.3	7.7
82	29.23	602	0.30	0.04882	0.9	0.3616	3.4	0.0537	3.3	0.01481	3.6	308.6	3.1	322.8	18.0	431.2	22.7	96	-0.21	1.42	308.6	7.2
37	22.14	347	1.69	0.04676	1.1	0.3884	4.3	0.0602	4.1	0.01349	2.0	309.3	11.9	451.2	138.	1298.0	277.7	69	-3.03	3.42		
24	92.33	1528	1.11	0.04920	1.2	0.3605	2.2	0.0531	1.9	0.01597	1.4	310.5	3.6	281.1	16.5	68.8	4.4	110	0.70	9.89	310.5	7.5
10	21.07	402	0.44	0.04995	0.7	0.3605	2.9	0.0524	2.8	0.01853	2.0	311.6	2.3	254.8	13.2	0.5	0.0	122	1.25	1.72		
50	5.58	101	0.73	0.04921	1.3	0.4243	6.1	0.0625	5.9	0.01527	3.8	313.9	4.5	394.5	32.3	910.2	58.8	80	-0.85	1.28		
88	7.95	121	1.57	0.04870	2.0	0.3397	11.	0.0506	11.	0.01459	4.4	315.0	7.3	359.4	58.9	686.3	96.3	88	-1.44	1.18	315.0	9.9
42	50.67	942	0.60	0.04972	1.7	0.3645	3.1	0.0532	2.6	0.01531	3.2	316.4	5.6	346.6	30.8	564.7	44.7	91	-0.71	5.74	316.4	8.7
53	30.52	575	0.51	0.05023	0.6	0.3498	2.2	0.0505	2.1	0.01616	1.3	317.6	2.0	290.9	10.0	102.3	3.8	109	0.30	5.00	317.6	7.0
58	69.55	981	1.17	0.05262	1.9	0.3740	4.2	0.0516	3.7	0.02309	5.4	322.8	8.8	137.5	111.	0.0	0.0	235	3.60	9.57	322.8	11.1
59	48.41	809	0.69	0.05325	1.2	0.3867	2.7	0.0527	2.4	0.01894	3.0	332.8	4.0	277.9	22.3	0.7	0.1	120	1.11	6.88		
97	9.22	158	0.50	0.05460	1.9	0.4284	8.5	0.0569	8.3	0.02102	3.9	338.0	6.5	272.0	34.7	0.4	0.0	124	1.83	1.07	338.0	9.6
10	84.29	1279	0.64	0.05626	2.7	0.3838	4.9	0.0495	4.2	0.02744	5.8	344.1	9.2	158.6	37.7	0.0	0.0	217	3.15	15.16		
pooled age (N = 98 of 114, MSWD = 5.5, 1σ absolute external error)															277.4		5.5					

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 1 of 3. U-Th-Pb isotope data for sample Otama Granodiorite (OU:9732).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 208Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)							
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*												
53	11.40	316	0.22	0.03706	1.8	0.2478	8.0	0.0485	7.7	0.01192	4.3	234.6	4.3	219.9	20.1	70.2	6.8	107	0.13	1.04	234.6	6.5
43	16.70	413	0.49	0.03865	1.4	0.3233	3.6	0.0607	3.3	0.01216	2.7	245.4	3.3	284.4	12.9	627.1	23.4	86	0.00	2.00	245.4	6.2
20	9.57	231	0.46	0.03949	1.4	0.3008	5.1	0.0552	4.9	0.01417	3.4	248.4	3.5	228.5	17.6	43.3	3.6	109	1.02	1.71	248.4	6.3
52	5.84	145	0.32	0.04012	1.3	0.3441	6.6	0.0622	6.5	0.01464	4.7	252.5	3.2	272.3	20.3	452.8	30.7	93	0.76	1.00	252.5	6.2
29	23.56	625	0.11	0.04009	0.8	0.2938	4.2	0.0532	4.2	0.01303	4.6	253.4	2.0	258.7	10.4	308.5	11.9	98	0.08	1.09	253.4	5.7
22	15.58	392	0.24	0.04061	0.8	0.3183	3.4	0.0568	3.2	0.01352	2.8	256.6	2.2	272.5	10.8	415.3	15.1	94	0.21	1.76	256.6	5.8
51	36.17	913	0.26	0.04051	0.8	0.3226	2.1	0.0578	2.0	0.01156	2.3	257.4	1.9	299.0	6.5	640.9	11.3	86	-0.41	3.09		
27	11.86	284	0.37	0.04103	1.0	0.3466	4.2	0.0613	4.1	0.01377	2.8	258.9	2.5	286.7	12.8	525.5	20.7	90	0.41	1.86	258.9	6.0
05	13.95	334	0.39	0.04095	1.1	0.3240	5.0	0.0574	4.8	0.01310	3.1	259.2	2.9	280.2	14.3	466.0	21.5	93	0.13	1.44	259.2	6.2
48	25.14	624	0.24	0.04116	0.8	0.2977	2.8	0.0525	2.7	0.01336	2.3	260.4	2.1	263.0	13.9	290.4	15.0	99	0.04	1.78	260.4	5.9
06	24.50	579	0.42	0.04116	0.7	0.3309	2.4	0.0583	2.3	0.01310	1.8	260.6	2.0	287.2	11.2	516.9	17.9	91	0.08	2.08	260.6	5.8
33	16.42	413	0.19	0.04146	1.5	0.2939	5.7	0.0514	5.5	0.01163	7.1	262.8	3.9	272.1	18.3	355.1	22.5	97	-0.27	1.41	262.8	6.7
18	24.15	573	0.27	0.04206	0.7	0.3600	3.2	0.0621	3.2	0.01772	4.6	263.6	2.0	273.1	14.6	360.8	18.4	97	1.01	1.62	263.6	5.9
21	35.53	867	0.30	0.04155	0.6	0.3253	2.2	0.0568	2.1	0.01125	2.0	264.7	1.8	312.0	11.6	686.7	21.2	85	-0.69	2.02		
35	27.99	668	0.29	0.04201	0.7	0.3217	2.8	0.0555	2.7	0.01486	3.0	264.7	2.2	267.7	15.5	297.2	16.8	99	0.40	1.49	264.7	6.0
09	44.24	1086	0.20	0.04208	0.8	0.3408	2.6	0.0587	2.5	0.01392	2.1	265.7	2.3	292.1	16.7	512.1	26.2	91	0.15	3.12	265.7	6.1
03	22.72	554	0.20	0.04232	0.9	0.3224	2.7	0.0552	2.5	0.01438	3.1	267.1	2.4	277.7	12.5	370.2	15.7	96	0.15	2.07	267.1	6.1
04	6.07	146	0.31	0.04205	1.2	0.3017	5.5	0.0520	5.4	0.01197	5.5	267.2	3.2	285.2	16.2	439.5	22.8	94	-0.45	2.00	267.2	6.5
17	13.79	332	0.26	0.04227	0.9	0.3136	4.0	0.0538	3.9	0.01311	3.1	267.5	2.4	279.4	11.0	383.3	14.1	96	-0.06	1.61	267.5	6.1
16	6.69	149	0.48	0.04261	1.6	0.3732	7.2	0.0635	7.0	0.01540	5.2	267.7	4.3	288.2	25.7	466.3	37.8	93	0.88	2.12	267.7	7.1
														pooled age (N = 41 of 54, MSWD = 4.6, 1σ absolute external error)				269.3	4.5			

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 2 of 3. U-Th-Pb isotope data for sample Otama Granodiorite (OU:9732).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 208Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)				
				$\frac{206\text{Pb}}{238\text{U}}$	$\frac{207\text{Pb}}{235\text{U}}$	$\frac{207\text{Pb}}{206\text{Pb}}$	$\frac{208\text{Pb}}{232\text{Th}}$	$\frac{206\text{Pb}^*}{238\text{U}}$	$\frac{207\text{Pb}^*}{235\text{U}}$	$\frac{207\text{Pb}^*}{206\text{Pb}^*}$	$\frac{207\text{Pb}^*}{206\text{Pb}^*}$								
47	9.44	218	0.39	0.04244	1.2	0.3141	3.8	0.0537	3.7	0.01319	3.1	268.7	3.1	276.7	13.9	351.8	16.7	268.7	6.5
34	9.85	223	0.49	0.04232	1.1	0.3193	4.0	0.0547	3.8	0.01247	2.9	269.4	2.9	301.2	13.5	562.9	21.9	269.4	6.4
10	13.63	311	0.40	0.04284	1.1	0.3096	3.8	0.0524	3.6	0.01331	2.5	271.4	3.1	279.2	14.0	350.4	16.6	271.4	6.5
25	32.79	804	0.19	0.04261	0.7	0.3145	2.5	0.0535	2.4	0.01047	4.3	271.5	2.0	312.1	10.3	628.7	17.6	271.5	6.5
49	11.11	258	0.31	0.04304	1.2	0.3297	4.1	0.0556	3.9	0.01441	3.8	272.4	3.2	288.5	14.6	427.9	19.9	272.4	6.5
41	48.78	1167	0.35	0.04222	1.1	0.3223	3.5	0.0554	3.3	0.00864	4.5	272.4	3.1	363.1	13.0	994.9	26.1	272.4	6.5
28	9.66	220	0.37	0.04320	1.0	0.3047	3.9	0.0512	3.8	0.01425	3.2	272.8	2.7	259.8	12.4		7.8	272.8	6.3
14	17.31	405	0.33	0.04290	1.1	0.3207	3.8	0.0542	3.7	0.01175	2.5	273.0	2.9	309.1	10.9	594.3	17.7	273.0	6.4
37	5.21	114	0.54	0.04317	1.2	0.3658	6.6	0.0615	6.5	0.01311	3.6	274.2	3.5	325.4	21.8	719.0	39.8	274.2	6.7
08	27.42	648	0.29	0.04305	0.6	0.3086	2.6	0.0520	2.5	0.01087	2.4	274.8	1.8	314.1	11.1	619.5	18.8	274.8	6.0
45	24.06	570	0.21	0.04351	0.6	0.3385	2.7	0.0564	2.7	0.01360	2.6	274.9	1.8	296.9	9.3	475.7	13.5	274.9	6.1
50	14.78	345	0.21	0.04372	1.1	0.3079	4.8	0.0511	4.7	0.01655	4.9	275.0	3.1	253.2	15.4	61.5	4.1	275.0	6.6
02	26.48	616	0.38	0.04287	1.0	0.3125	3.2	0.0529	3.1	0.01018	3.2	275.2	2.7	336.0	10.7	785.8	19.7		
07	4.15	91	0.37	0.04456	1.3	0.3896	6.4	0.0634	6.2	0.01671	4.1	278.5	3.7	283.9	22.7	335.5	25.9	278.5	6.9
26	13.62	291	0.42	0.04474	1.3	0.3922	6.2	0.0636	6.0	0.01830	6.0	278.6	3.7	267.0	24.4	176.9	16.8	278.6	6.9
46	4.36	99	0.28	0.04423	1.9	0.3503	7.1	0.0574	6.9	0.01504	6.3	278.6	5.1	290.3	22.5	390.4	28.2	278.6	7.8
23	35.21	818	0.30	0.04375	0.8	0.3513	2.6	0.0582	2.5	0.01132	2.3	278.9	2.4	339.0	14.6	779.1	27.1		
24	3.84	89	0.23	0.04417	2.2	0.3765	9.8	0.0618	9.6	0.01391	9.6	278.9	6.0	324.0	30.1	664.4	51.8	278.9	8.4
44	17.20	392	0.33	0.04397	0.9	0.3347	3.6	0.0552	3.5	0.01255	3.3	279.3	2.6	312.1	17.6	570.1	28.3	279.3	6.4
32	12.25	268	0.41	0.04449	2.0	0.3204	7.0	0.0522	6.7	0.01388	4.4	281.2	5.4	284.3	20.1	313.5	21.2	281.2	8.0
pooled age (N = 41 of 54, MSWD = 4.6, 1 σ absolute external error)																269.3	4.5		

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 2 of 3. U-Th-Pb isotope data for sample Otama Granodiorite (OU:9732).

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)							
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	207Pb*/206Pb*											
15	12.55	287	0.30	0.04440	1.1	0.3684	3.8	0.0602	3.6	0.01177	2.9	282.4	3.1	344.9	13.2	794.3	24.1	82	-0.67	2.00	283.3	7.1
11	21.46	492	0.25	0.04464	1.4	0.3263	4.6	0.0530	4.4	0.01228	4.4	283.3	3.9	306.1	15.9	486.9	22.6	93	-0.47	1.65	284.8	6.6
12	16.73	367	0.33	0.04513	0.9	0.3814	4.4	0.0613	4.3	0.01547	3.8	284.8	2.8	321.4	18.8	601.2	30.7	89	0.17	1.71		
19	10.13	218	0.50	0.04476	1.1	0.3092	5.6	0.0501	5.5	0.01136	3.4	287.8	3.2	342.7	15.0	739.9	26.5	84	-1.71	1.09		
01	7.98	169	0.38	0.04631	1.3	0.3833	4.9	0.0600	4.8	0.01552	3.3	291.3	3.7	309.5	17.1	455.1	23.1	94	0.48	1.89	291.3	7.2
38	6.93	147	0.40	0.04621	1.4	0.3851	6.3	0.0605	6.1	0.01495	4.0	291.6	4.1	323.2	21.3	565.0	32.7	90	0.18	1.80	291.6	7.4
54	8.27	174	0.48	0.04602	1.2	0.3805	5.0	0.0600	4.8	0.01268	3.1	293.7	3.5	367.0	16.3	866.8	30.0	80	-0.99	1.92		
13	14.87	329	0.28	0.04607	0.9	0.3557	4.1	0.0560	4.0	0.01126	3.5	293.8	2.7	350.5	13.0	749.7	22.8	84	-1.02	2.00		
42	9.11	188	0.56	0.04617	1.2	0.3668	5.7	0.0576	5.6	0.01213	2.9	296.2	3.6	371.9	21.7	885.5	40.5	80	-1.35	1.64		
40	8.04	170	0.36	0.04689	1.4	0.3820	5.7	0.0591	5.5	0.01402	4.1	296.7	4.2	337.2	19.0	632.2	30.4	88	-0.21	1.88	296.7	7.5
30	11.54	236	0.44	0.04753	1.3	0.3627	4.7	0.0553	4.5	0.01437	3.3	300.8	4.0	321.1	17.5	478.3	23.6	94	-0.16	2.39	300.8	7.5
31	7.97	166	0.26	0.04856	1.4	0.3689	7.9	0.0551	7.8	0.01716	4.8	304.7	4.4	295.2	25.0	225.6	19.5	103	0.54	1.48	304.7	7.8
36	28.76	635	1.12	0.04147	1.4	0.3414	4.6	0.0597	4.3	0.00240	6.0	304.8	5.8	787.8	31.9	2614.3	51.4	39	-16.58	2.41		
39	2.23	41	0.34	0.05316	3.3	0.9848	13.	0.1344	13.	0.03097	9.4	317.6	11.0	501.4	94.2	1469.2	182.7	63	5.38	2.00		
41	83.19	291	0.25	0.29243	13.	10.384	28.	0.2576	24.	0.19102	29.	1565.2	194.	2168.3	366.	2825.9	365.1	72	7.46	2.00		
pooled age (N = 41 of 54, MSWD = 4.6, 1σ absolute external error)															269.3		4.5					

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 1 of 3. U-Th-Pb isotope data for sample Lake Ruth Plagiogranite (OU:49074)

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)								
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*													
09	1.69	39	0.46	0.04217	2.3	0.4807	10.	0.0827	9.9	0.01486	5.8	264.5	6.1	359.8	39.1	1039.8	82.6	74	1.09	2.00	2.00	265.8	7.6
03	3.67	79	0.69	0.04213	1.9	0.3254	7.3	0.0560	7.0	0.01386	3.4	265.8	5.1	256.0	25.9	184.0	19.0	104	0.76	2.00	2.00	266.1	7.7
29	4.21	92	0.58	0.04246	2.0	0.4252	9.3	0.0726	9.1	0.01510	5.0	266.1	5.3	316.0	34.3	711.8	63.8	84	1.17	1.70	1.70		
40	4.71	99	0.82	0.04187	1.6	0.3773	8.4	0.0653	8.3	0.01294	3.4	266.5	4.3	329.6	29.4	817.3	58.0	81	-0.12	2.00	2.00		
41	4.17	89	0.69	0.04246	1.5	0.3973	9.1	0.0679	9.0	0.01432	3.7	267.0	4.2	302.5	33.6	598.2	57.6	88	0.98	0.86	0.86	267.0	7.0
14	2.45	56	0.46	0.04250	3.6	0.3021	17.	0.0516	17.	0.01317	11.	268.2	9.8	261.9	56.0	208.8	45.3	102	0.15	1.68	1.68	268.2	11.3
26	2.12	46	0.62	0.04250	1.9	0.4484	8.0	0.0765	7.8	0.01384	4.5	268.4	5.2	356.7	31.0	991.5	64.0	75	0.54	2.00	2.00		
37	5.22	107	0.84	0.04246	1.9	0.3442	7.8	0.0588	7.5	0.01360	3.2	268.6	5.2	282.7	29.8	415.5	40.6	95	0.45	2.10	2.10	268.6	7.7
43	2.60	56	0.67	0.04258	1.7	0.4133	8.5	0.0704	8.3	0.01337	4.4	269.2	4.8	335.7	32.9	838.1	64.8	80	0.42	1.47	1.47		
32	3.42	71	0.69	0.04352	1.5	0.4573	7.7	0.0762	7.5	0.01653	3.2	269.3	4.3	284.0	33.5	419.6	46.1	95	2.57	1.29	1.29	269.3	7.1
25	3.90	85	0.57	0.04278	1.6	0.3137	7.2	0.0532	7.0	0.01362	3.7	270.4	4.2	264.2	23.6	221.0	19.8	102	0.32	1.84	1.84	270.4	7.1
10	7.64	166	0.62	0.04272	2.0	0.3384	6.7	0.0574	6.4	0.01317	3.3	270.9	5.4	301.0	21.7	548.4	34.2	90	-0.13	1.46	1.46	270.9	7.8
11	5.36	108	0.86	0.04291	2.3	0.2572	9.5	0.0435	9.3	0.01339	3.3	271.8	6.4	226.8	33.2	0.5	0.1	120	0.13	2.00	2.00	271.8	8.6
01	2.49	52	0.74	0.04308	2.1	0.4724	7.1	0.0795	6.8	0.01478	4.3	271.8	5.8	364.7	33.0	1022.9	67.9	75	0.77	1.38	1.38		
16	3.03	65	0.66	0.04278	1.5	0.3956	8.1	0.0671	8.0	0.01301	3.8	271.8	4.3	345.2	28.2	884.0	56.1	79	-0.18	1.21	1.21		
28	3.27	67	0.75	0.04317	1.8	0.3633	7.5	0.0610	7.3	0.01411	4.0	272.4	4.9	288.8	31.1	437.8	43.5	94	0.66	1.45	1.45	272.4	7.6
06	3.25	69	0.70	0.04302	1.6	0.3343	7.6	0.0564	7.4	0.01320	3.3	273.4	4.3	298.8	24.8	514.4	38.1	91	-0.15	2.00	2.00	273.4	7.2
30	3.60	76	0.66	0.04338	1.6	0.3728	7.1	0.0623	7.0	0.01403	3.3	273.7	4.3	300.8	25.9	528.4	40.4	91	0.53	1.69	1.69	273.7	7.2
05	2.28	49	0.55	0.04327	1.7	0.3516	10.	0.0589	10.	0.01377	5.0	274.1	4.7	301.9	32.3	533.1	50.7	91	0.10	2.00	2.00	274.1	7.4
17	2.69	57	0.61	0.04370	1.7	0.3732	9.4	0.0619	9.3	0.01479	3.6	274.4	4.8	283.7	31.7	371.7	39.4	97	0.97	1.24	1.24	274.4	7.5
														pooled age (N = 33 of 45, MSWD = 1.4, 1σ absolute external error)				277.6	3.3				

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 2 of 3. U-Th-Pb isotope data for sample Lake Ruth Plagiogranite (OU-49074)

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)							
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*												
36	2.07	43	0.54	0.04431	2.0	0.3739	8.1	0.0612	7.9	0.01684	5.0	274.6	5.5	242.2	35.5	1.9	0.3	113	1.96	2.00	274.6	8.0
07	4.43	95	0.60	0.04351	1.3	0.3517	6.6	0.0586	6.5	0.01340	3.6	275.7	3.6	305.2	23.3	547.2	37.0	90	0.02	1.44	275.7	6.8
22	4.30	89	0.60	0.04408	1.7	0.2534	7.9	0.0417	7.7	0.01526	4.3	276.3	4.8	180.6	28.0	0.1	0.0	153	1.11	1.01		
24	2.89	60	0.69	0.04372	2.0	0.3239	8.1	0.0537	7.9	0.01333	3.7	277.1	5.5	282.5	29.2	338.9	33.6	98	0.06	2.00	277.1	8.0
21	1.95	42	0.54	0.04420	2.0	0.3753	11.	0.0616	11.	0.01510	5.0	277.2	5.6	288.0	39.1	383.3	49.3	96	0.89	2.00	277.2	8.1
31	1.68	35	0.57	0.04511	2.7	0.5888	18.	0.0947	16.	0.01611	8.4	277.4	9.2	366.8	95.8	985.7	195.2	76	2.82	2.00	277.4	10.9
19	2.74	58	0.59	0.04386	1.9	0.4349	8.6	0.0719	8.4	0.01402	5.9	277.8	5.2	363.2	32.5	962.2	65.2	76	0.09	0.97		
35	3.03	64	0.60	0.04404	2.1	0.3864	9.1	0.0636	8.9	0.01433	5.1	277.9	5.8	312.8	33.3	592.8	54.6	89	0.48	1.06	277.9	8.3
34	9.42	195	0.65	0.04421	1.7	0.3737	7.8	0.0613	7.7	0.01447	3.6	278.6	4.8	294.9	28.8	439.2	39.6	94	0.69	2.00	278.6	7.5
27	3.06	62	0.65	0.04522	2.4	0.5688	11.	0.0912	10.	0.01743	4.5	278.8	6.8	350.3	53.5	870.0	104.4	80	2.87	1.78	278.8	9.0
04	4.63	96	0.57	0.04458	1.1	0.3214	6.3	0.0523	6.2	0.01493	2.9	280.6	3.1	253.9	20.6	29.9	2.7	110	0.69	0.97	280.6	6.7
23	2.05	43	0.61	0.04439	1.9	0.5311	10.	0.0868	10.	0.01373	5.3	281.5	5.3	434.1	40.2	1363.1	84.1	65	-0.04	2.00		
12	4.98	100	0.78	0.04409	1.7	0.2592	14.	0.0426	14.	0.01274	5.4	282.0	5.1	277.5	34.2	248.5	30.8	102	-1.04	0.94	282.0	7.8
02	2.94	59	0.69	0.04491	1.5	0.3699	7.7	0.0597	7.5	0.01506	4.4	282.6	4.2	284.5	30.6	314.6	33.1	99	0.86	1.15	282.6	7.3
45	2.53	52	0.57	0.04516	2.0	0.4436	9.7	0.0712	9.5	0.01545	4.9	283.1	5.9	329.6	38.2	683.2	66.6	86	1.10	2.00	283.1	8.4
42	6.99	144	0.68	0.04444	1.9	0.3465	8.8	0.0565	8.6	0.01280	3.9	283.8	5.3	334.8	28.4	715.7	50.1	85	-0.82	1.22	283.8	8.0
08	2.47	53	0.53	0.04477	2.0	0.4391	9.0	0.0711	8.7	0.01304	4.9	284.3	5.7	381.8	31.8	1033.8	63.5	74	-0.32	1.18		
18	5.04	99	0.75	0.04534	1.8	0.3683	7.1	0.0589	6.8	0.01520	3.6	285.1	5.1	286.1	30.4	306.8	32.0	100	0.78	2.21	285.1	7.9
15	1.27	26	0.49	0.04604	2.7	0.5051	11.	0.0796	11.	0.01687	8.1	285.2	7.8	330.6	55.1	672.7	95.1	86	2.17	2.00	285.2	9.8
13	3.13	64	0.63	0.04537	1.5	0.4064	7.9	0.0650	7.7	0.01382	4.2	287.5	4.4	348.6	29.9	788.3	54.9	82	-0.06	1.20		
														pooled age (N = 33 of 45, MSWD = 1.4, 1 σ absolute external error)						277.6	3.3	

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 3 of 3. U-Th-Pb isotope data for sample Lake Ruth Plagiogranite (OU-49074)

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1 σ (%) internal errors				Corrected ages and 1 σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1 σ absolute external error (Ma)							
				$\frac{^{206}\text{Pb}}{^{238}\text{U}}$	$\frac{^{207}\text{Pb}}{^{235}\text{U}}$	$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$	$\frac{^{208}\text{Pb}}{^{232}\text{Th}}$	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$											
38	3.33	66	0.66	0.04633	1.9	0.4665	8.8	0.0730	8.6	0.01602	3.6	289.7	5.5	334.9	34.9	674.3	59.5	87	1.35	1.61	289.7	8.2
20	4.13	82	0.70	0.04584	2.3	0.3197	12.	0.0506	12.	0.01356	5.0	291.7	6.9	308.8	37.4	447.2	50.1	94	-0.65	1.28	291.7	9.2
44	1.74	37	0.45	0.04661	2.8	0.6861	15.	0.1068	12.	0.01506	10.	292.3	8.3	514.8	59.8	1682.9	119.2	57	0.46	2.00		
39	4.78	93	0.57	0.04813	1.7	0.4244	7.1	0.0639	6.8	0.01526	4.0	303.7	5.3	348.6	27.0	670.1	44.1	87	0.25	1.91	303.7	8.3
33	3.06	59	0.50	0.04879	1.6	0.3296	8.4	0.0490	8.2	0.01689	4.3	305.5	4.9	244.7	29.2	0.4	0.0	125	0.97	1.09	305.5	8.1
pooled age (N = 33 of 45, MSWD = 1.4, 1 σ absolute external error)																277.6	3.3					

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.

Table 1 of 1. U-Th-Pb isotope data for sample Upukerora Formation. (OU52127/126)

Spot No.	Pb* (ppm)	U (ppm)	atomic Th/U	Measured isotope ratios and 1σ (%) internal errors				Corrected ages and 1σ absolute internal errors (Ma)				6*/38 -7*/35 concordance(%)	% common 206Pb	Spot MSW D	Selected age and 1σ absolute external error (Ma)								
				206Pb/238U	207Pb/235U	207Pb/206Pb	208Pb/232Th	206Pb*/238U	207Pb*/235U	207Pb*/206Pb*	207Pb*/206Pb*												
1.	0.88	22	0.29	0.04031	2.1	0.4140	8.7	0.0745	8.4	0.01481	7.1	254.0	5.4	323.9	29.5	872.6	61.0	78	0.79	1.33	1.33	255.9	4.8
5.	1.61	39	0.32	0.04067	1.6	0.3008	7.1	0.0536	6.9	0.01497	4.0	255.9	3.9	232.6	19.6	20.5	1.9	110	0.89	1.46	1.46	255.9	4.8
4.	1.45	36	0.32	0.04052	1.7	0.3723	7.4	0.0666	7.2	0.01337	5.2	256.2	4.3	307.2	23.6	724.0	45.2	83	0.39	1.35	1.35	258.7	5.2
0.	1.31	32	0.30	0.04095	1.7	0.3398	7.7	0.0602	7.6	0.01394	6.0	258.7	4.3	280.1	23.5	472.2	35.6	92	0.45	1.22	1.22	262.8	5.6
4.	1.10	27	0.29	0.04166	1.8	0.3233	8.6	0.0563	8.4	0.01441	6.2	262.8	4.8	262.5	25.3	270.4	25.6	100	0.56	1.23	1.23	263.2	5.5
8.	1.85	42	0.50	0.04178	1.6	0.3457	6.8	0.0600	6.6	0.01489	5.5	263.2	4.6	259.3	36.1	243.8	33.9	101	1.09	1.06	1.06	264.5	7.1
1.	1.19	27	0.29	0.04253	2.4	0.4540	9.0	0.0774	8.7	0.02094	12.	264.5	6.5	303.9	36.3	630.0	63.9	87	2.05	1.55	1.55	264.7	5.6
3.	1.08	25	0.29	0.04275	1.8	0.4329	9.2	0.0734	9.0	0.02284	11.	264.7	4.7	267.9	36.8	309.8	41.4	99	2.54	0.94	0.94	264.7	5.6
5.	1.34	31	0.40	0.04246	1.5	0.3686	7.1	0.0630	7.0	0.01369	4.9	269.0	4.1	312.3	23.0	660.3	40.9	86	0.17	0.80	0.80	269.0	5.0
7.	0.79	19	0.22	0.04348	2.2	0.5588	10.	0.0932	10.	0.02114	8.4	269.4	5.9	368.8	46.2	1062.3	97.4	73	2.31	1.08	1.08	269.4	6.6
9.	0.82	19	0.23	0.04343	2.0	0.3280	8.5	0.0548	8.3	0.01824	7.6	271.6	5.4	233.0	27.1	0.8	0.1	117	1.34	0.99	0.99	271.6	6.2
6.	1.35	31	0.24	0.04398	2.1	0.4132	9.8	0.0682	9.5	0.01770	8.5	275.5	5.8	308.8	33.1	577.0	53.9	89	1.09	1.49	1.49	275.5	6.5
3.	2.83	61	0.55	0.04343	1.4	0.3058	5.3	0.0511	5.1	0.01351	3.0	275.8	4.0	269.2	17.8	228.7	15.1	102	0.04	1.57	1.57	275.8	5.0
2.	1.45	33	0.31	0.04404	1.5	0.3109	5.8	0.0512	5.6	0.01325	5.7	279.2	4.2	280.2	17.9	296.6	18.4	100	-0.13	0.99	0.99	281.0	6.9
12	2.45	54	0.32	0.04505	2.2	0.4225	8.6	0.0680	8.3	0.01921	5.5	281.0	6.2	286.7	31.0	349.1	36.0	98	1.77	1.74	1.74	281.0	6.9
pooled age (N = 12 of 15, MSWD = 2.2, 1σ absolute external error)															267.8		4.7						

All errors are 1 σ , * = radiogenic component only, d = discordant, i = inherited, rd = reversely discordant.