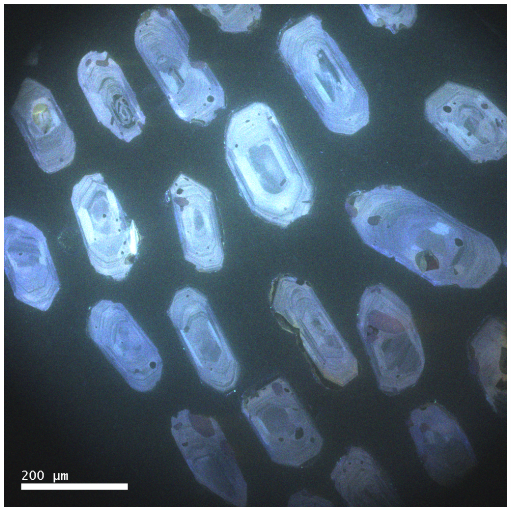
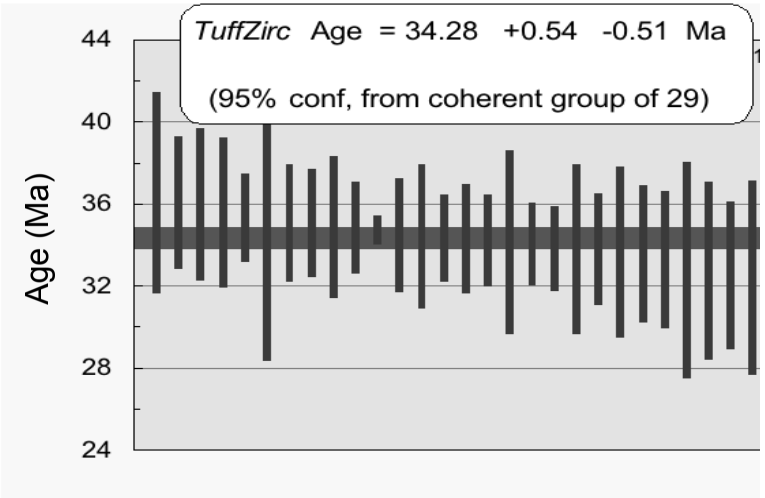
Data Repository DR2

Organ caldera complex LA-ICPMS U/Pb zircon data tables and *Tuffzirc* plots

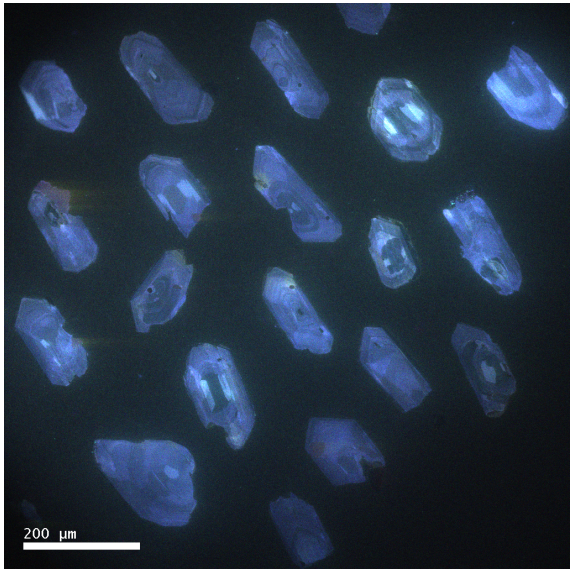
Data repository DR2 contains the LA-ICP-MS U/Pb zircon data tables and *TuffZirc* plots (Ludwig, 2003; Ludwig and Mundil, 2002;). The *TuffZirc* ages were calculated from single grain ages using methods and algorithms of *Isoplot 3.70* (Ludwig, 2003). All uncertainties of individual analyses are reported at the 1-sigma level and include only analytical errors. *TuffZirc* ages are reported at the 2-sigma level. U concentration and U/Th are calibrated relative to the Sri Lanka zircon standard and are accurate to ~20%. Common Pb correction is from ^{204}Pb, with composition interpreted from Stacey and Kramers (1975) and uncertainties of 1.0 for ^{206}Pb/ ^{204}Pb, 0.3 for ^{207}Pb/ ^{204}Pb, and 2.0 for ^{208}Pb/ ^{204}Pb. U/Pb ages and ^{206}Pb/ ^{207}Pb fractionation is calibrated relative to fragments of a large Sri Lanka zircon of 564±4 Ma (2σ). U decay constants and composition are as follows: ^{238}U = 9.8485 x 10^{-10} yr^{-1}, ^{235}U = 1.55125 x 10^{-10} yr^{-1}, ^{238}U/ ^{235}U = 137.88. CL images were acquired using a Hitachi 3400N SEM with a high-resolution Gatan color CL detector. For a more comprehensive description of LA-ICP-MS U-Pb zircon analytical procedures see Gehrels et al. (2008) and the Arizona Laserchron website (https://sites.google.com/a/laserchron.org/laserchron/home/).

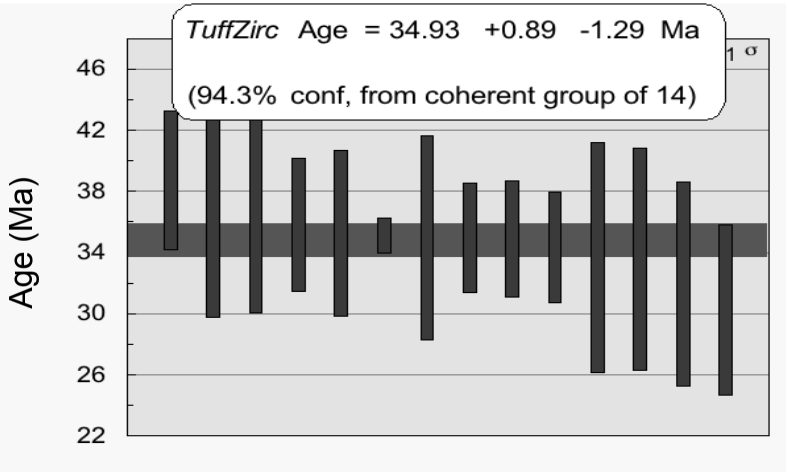
ORGAN-9, Sugarloaf Peak qtz. Monz.																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-9-5C	99	134	0.9	25.0119	172.0	0.0276	173.1	0.0050	19.0	0.11	32.2	6.1	27.7	47.3	-352.2	0.0	32.2	6.1
ORGAN-9-3R	103	4724	1.1	12.8285	33.5	0.0542	36.5	0.0050	14.5	0.40	32.4	4.7	53.5	19.0	1145.7	684.7	32.4	4.7
ORGAN-9-22R	132	3094	1.0	12.5111	39.4	0.0557	40.9	0.0051	11.0	0.27	32.5	3.6	55.0	21.9	1195.2	808.6	32.5	3.6
ORGAN-9-21R	144	2013	1.0	16.8011	33.2	0.0418	35.7	0.0051	13.2	0.37	32.7	4.3	41.6	14.5	586.2	738.9	32.7	4.3
ORGAN-9-20R	77	1664	0.8	18.6623	162.1	0.0376	162.9	0.0051	16.1	0.10	32.7	5.2	37.5	60.1	353.6	1270.4	32.7	5.2
ORGAN-9-12R	178	2798	1.1	19.1595	46.4	0.0372	47.5	0.0052	10.0	0.21	33.3	3.3	37.1	17.3	293.9	1115.5	33.3	3.3
ORGAN-9-23R	258	4267	1.1	25.4246	44.7	0.0283	45.8	0.0052	9.9	0.22	33.5	3.3	28.3	12.8	-394.6	1216.2	33.5	3.3
ORGAN-9-16R	164	3460	0.9	22.5594	54.9	0.0320	56.3	0.0052	12.3	0.22	33.7	4.1	32.0	17.7	-92.5	1449.8	33.7	4.1
ORGAN-9-2R	131	2444	1.1	14.7376	52.4	0.0491	53.1	0.0053	8.1	0.15	33.8	2.7	48.7	25.2	864.1	1171.1	33.8	2.7
ORGAN-9-24R	147	4953	1.1	10.2679	116.5	0.0705	117.2	0.0053	12.2	0.10	33.8	4.1	69.2	78.5	1574.7	28.5	33.8	4.1
ORGAN-9-26R	198	7979	0.9	34.2620	68.4	0.0212	68.7	0.0053	6.1	0.09	33.8	2.0	21.3	14.5	-1244.1	738.2	33.8	2.0
ORGAN-9-5R	176	5798	0.8	20.5293	57.8	0.0356	58.1	0.0053	5.8	0.10	34.1	2.0	35.5	20.3	134.0	1478.2	34.1	2.0
ORGAN-9-6C	168	5677	1.0	4.3967	595.5	0.1665	595.7	0.0053	13.1	0.02	34.1	4.5	156.4	1276.4	3034.1	450.8	34.1	4.5
ORGAN-9-2C	187	1971	0.7	18.2982	47.7	0.0401	48.1	0.0053	6.5	0.14	34.2	2.2	39.9	18.8	397.9	1130.6	34.2	2.2
ORGAN-9-14R	203	2898	1.0	21.8879	30.8	0.0336	31.7	0.0053	7.7	0.24	34.3	2.6	33.5	10.5	-18.8	759.7	34.3	2.6
ORGAN-9-16C	455	6899	0.6	23.7930	23.6	0.0309	24.4	0.0053	6.2	0.25	34.3	2.1	30.9	7.4	-224.8	600.5	34.3	2.1
ORGAN-9-6R	150	2649	1.1	17.7998	106.9	0.0415	107.4	0.0054	10.2	0.10	34.4	3.5	41.2	43.4	459.5	738.1	34.4	3.5
ORGAN-9-13R	196	4858	1.0	22.2338	62.3	0.0332	62.8	0.0054	8.1	0.13	34.5	2.8	33.2	20.5	-56.9	1677.4	34.5	2.8
ORGAN-9-9C	732	19214	0.4	21.2842	12.7	0.0350	12.8	0.0054	1.9	0.15	34.7	0.7	34.9	4.4	48.4	303.6	34.7	0.7
ORGAN-9-1C	268	5808	0.9	28.5956	50.3	0.0261	50.7	0.0054	6.4	0.13	34.8	2.2	26.2	13.1	-711.0	1478.3	34.8	2.2
ORGAN-9-19R	184	5419	1.0	22.8902	32.8	0.0326	34.2	0.0054	9.9	0.29	34.8	3.5	32.6	11.0	-128.3	828.6	34.8	3.5
ORGAN-9-12C	131	2762	1.1	20.0385	54.7	0.0375	55.2	0.0055	7.5	0.14	35.0	2.6	37.4	20.3	190.5	1372.4	35.0	2.6
ORGAN-9-10C	189	3759	1.0	29.5440	65.5	0.0255	66.0	0.0055	8.2	0.12	35.1	2.9	25.5	16.6	-802.7	2062.5	35.1	2.9
ORGAN-9-8R	62	911	1.0	0.2711	3620.2	2.7790	3620.3	0.0055	19.2	0.01	35.1	6.7	1349.9	#NUM!	#VALUE!	804.2	35.1	6.7
ORGAN-9-25R	195	3003	1.0	16.9842	32.7	0.0446	33.3	0.0055	6.1	0.18	35.3	2.1	44.3	14.4	562.6	731.1	35.3	2.1
ORGAN-9-1R	138	4192	0.9	22.3671	53.9	0.0341	54.9	0.0055	10.2	0.19	35.6	3.6	34.0	18.4	-71.5	1413.9	35.6	3.6
ORGAN-9-4R	187	2169	1.1	17.1932	39.3	0.0449	40.6	0.0056	10.3	0.25	36.0	3.7	44.6	17.7	535.9	891.7	36.0	3.7
ORGAN-9-11C	223	2005	0.8	17.4224	30.6	0.0444	31.9	0.0056	8.9	0.28	36.1	3.2	44.1	13.8	506.8	688.3	36.1	3.2
ORGAN-9-15R	182	916	0.9	18.2730	38.8	0.0429	41.0	0.0057	13.4	0.33	36.6	4.9	42.7	17.1	401.0	900.5	36.6	4.9



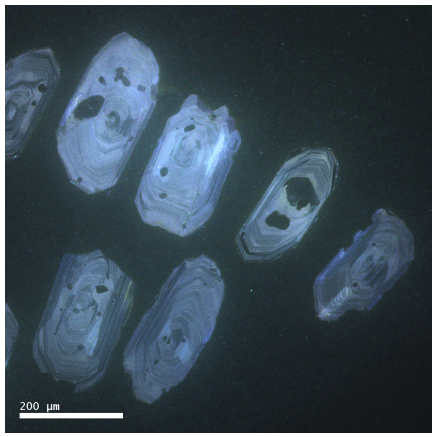


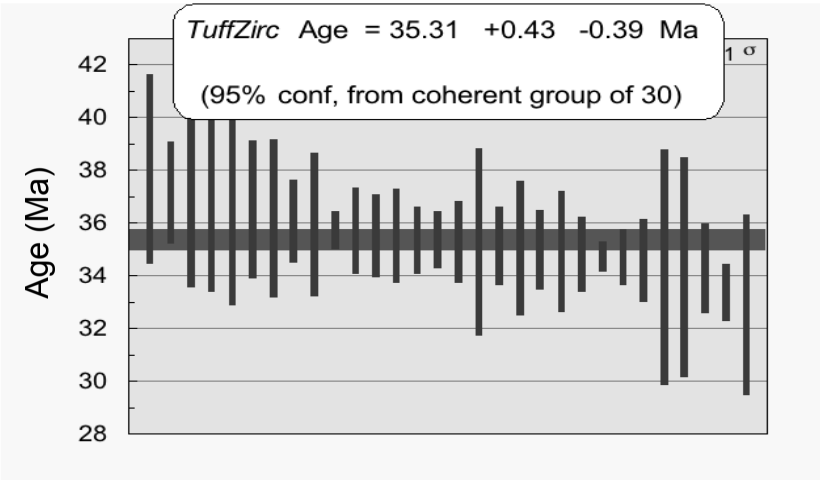
ORGAN-10, Equigranular ONP syenite																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-10-13C	167	587	0.6	9.9310	36.1	0.0652	40.6	0.0047	18.5	0.46	30.2	5.6	64.2	25.2	1636.9	694.9	30.2	5.6
ORGAN-10-10R	97	2176	0.6	6.8515	99.2	0.0998	101.4	0.0050	21.1	0.21	31.9	6.7	96.6	93.7	2299.0	#VALUE!	31.9	6.7
ORGAN-10-16R	59	785	0.8	6.5286	77.4	0.1101	80.4	0.0052	21.7	0.27	33.5	7.3	106.1	81.2	2381.6	672.7	33.5	7.3
ORGAN-10-5C	64	1484	0.6	7.0637	204.3	0.1021	205.5	0.0052	22.4	0.11	33.6	7.5	98.7	195.7	2246.5	12.5	33.6	7.5
ORGAN-10-6C	186	3400	0.4	21.2640	46.7	0.0346	47.9	0.0053	10.6	0.22	34.3	3.6	34.5	16.3	50.7	1174.2	34.3	3.6
ORGAN-10-18R	114	1978	0.7	8.7520	258.2	0.0854	258.4	0.0054	11.1	0.04	34.9	3.8	83.2	209.4	1868.2	487.0	34.9	3.8
ORGAN-10-1C	118	3228	0.7	27.9833	73.1	0.0268	73.9	0.0054	10.3	0.14	34.9	3.6	26.8	19.5	-651.1	2319.5	34.9	3.6
ORGAN-10-2R	153	172	0.8	14.7462	53.5	0.0508	56.8	0.0054	19.2	0.34	35.0	6.7	50.3	27.9	862.9	1199.1	35.0	6.7
ORGAN-10-13R	206	6739	0.5	20.2919	32.7	0.0371	32.9	0.0055	3.3	0.10	35.1	1.2	37.0	11.9	161.2	783.6	35.1	1.2
ORGAN-10-9C	139	2050	0.7	9.0802	191.9	0.0833	192.6	0.0055	15.4	0.08	35.3	5.4	81.2	151.4	1801.5	252.4	35.3	5.4
ORGAN-10-12C	121	2375	0.7	13.0470	119.2	0.0589	119.8	0.0056	12.2	0.10	35.8	4.4	58.1	67.8	1112.0	355.6	35.8	4.4
ORGAN-10-7C	100	2634	0.6	8.9508	140.7	0.0879	141.8	0.0057	18.2	0.13	36.7	6.7	85.5	116.9	1827.6	9.9	36.7	6.7
ORGAN-10-11R	91	2803	0.7	12.2702	165.3	0.0652	166.5	0.0058	20.3	0.12	37.3	7.6	64.1	103.8	1233.5	543.1	37.3	7.6
ORGAN-10-17R	96	800	0.6	36.8525	58.5	0.0225	59.7	0.0060	11.8	0.20	38.7	4.5	22.6	13.4	-1478.7	394.0	38.7	4.5



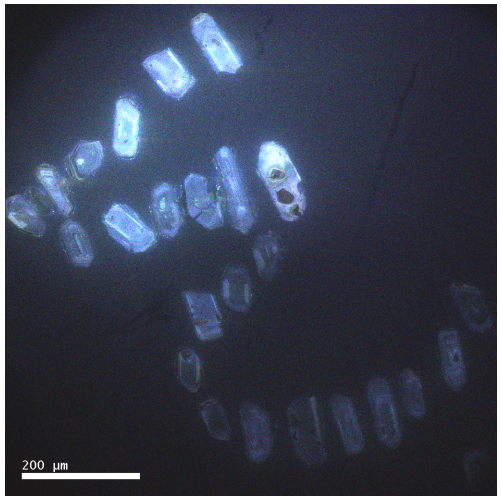


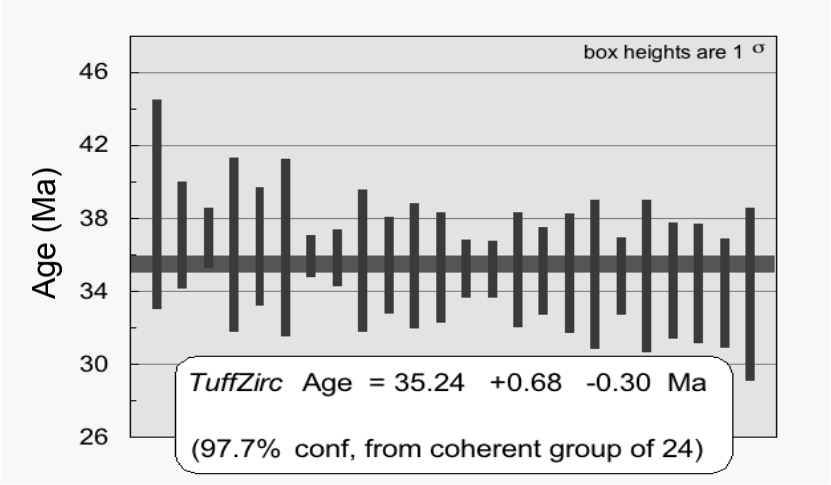
ORGAN-13, Sugarloaf Peak qtz. Monz																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-13-16R	107	615	1.4	18.8800	54.6	0.0374	55.6	0.0051	10.4	0.19	32.9	3.4	37.3	20.3	327.3	1336.3	32.9	3.4
ORGAN-13-9R	395	6987	0.6	21.8746	25.3	0.0327	25.5	0.0052	3.2	0.13	33.4	1.1	32.7	8.2	-17.4	619.7	33.4	1.1
ORGAN-13-14R	286	4132	1.0	27.3029	50.4	0.0269	50.6	0.0053	4.9	0.10	34.3	1.7	27.0	13.5	-584.0	1444.3	34.3	1.7
ORGAN-13-13R	134	2500	1.0	21.1486	38.7	0.0348	40.6	0.0053	12.2	0.30	34.3	4.2	34.7	13.9	63.6	954.1	34.3	4.2
ORGAN-13-7R	132	2082	1.5	-2.3966	1974.4	-0.3071	1974.4	0.0053	13.0	0.01	34.3	4.5	-372.5	#NUM!	0.0	1095.5	34.3	4.5
ORGAN-13-2C	159	7252	1.0	19.3331	26.2	0.0383	26.5	0.0054	4.6	0.17	34.6	1.6	38.2	10.0	273.2	608.5	34.6	1.6
ORGAN-13-18R	402	4661	0.9	28.7722	18.5	0.0259	18.8	0.0054	3.0	0.16	34.7	1.1	25.9	4.8	-728.1	520.9	34.7	1.1
ORGAN-13-1C	1143	17519	0.4	20.8288	5.5	0.0358	5.7	0.0054	1.6	0.28	34.7	0.6	35.7	2.0	99.8	130.0	34.7	0.6
ORGAN-13-4R	313	5433	1.1	26.2342	29.2	0.0285	29.5	0.0054	4.0	0.14	34.8	1.4	28.5	8.3	-477.0	788.1	34.8	1.4
ORGAN-13-6R	211	13614	1.0	14.4905	34.4	0.0517	35.0	0.0054	6.6	0.19	34.9	2.3	51.2	17.5	899.0	731.1	34.9	2.3
ORGAN-13-20R	532	7130	0.7	20.6575	16.6	0.0363	17.1	0.0054	4.3	0.25	35.0	1.5	36.2	6.1	119.3	393.5	35.0	1.5
ORGAN-13-25R	445	8770	0.6	23.8287	32.7	0.0315	33.5	0.0054	7.2	0.22	35.0	2.5	31.5	10.4	-228.5	842.7	35.0	2.5
ORGAN-13-22R	444	10794	0.9	25.7675	30.4	0.0292	30.7	0.0055	4.2	0.14	35.1	1.5	29.3	8.9	-429.6	813.8	35.1	1.5
ORGAN-13-1R	342	7426	0.9	23.8539	41.1	0.0317	42.3	0.0055	10.1	0.24	35.3	3.5	31.7	13.2	-231.2	1074.3	35.3	3.5
ORGAN-13-3R	263	1073	1.0	13.1843	38.8	0.0574	39.1	0.0055	4.4	0.11	35.3	1.5	56.7	21.5	1091.0	808.8	35.3	1.5
ORGAN-13-5R	696	14425	0.3	20.0898	10.5	0.0377	10.9	0.0055	3.0	0.28	35.3	1.1	37.6	4.0	184.5	245.3	35.3	1.1
ORGAN-13-19R	502	9070	0.6	25.7504	16.4	0.0294	16.8	0.0055	3.6	0.21	35.3	1.3	29.5	4.9	-427.9	432.9	35.3	1.3
ORGAN-13-10R	289	8426	1.0	16.1738	11.0	0.0471	12.1	0.0055	5.0	0.41	35.5	1.8	46.7	5.5	668.2	236.3	35.5	1.8
ORGAN-13-11R	250	3452	1.2	24.6041	44.6	0.0310	44.8	0.0055	4.4	0.10	35.5	1.6	31.0	13.7	-309.9	1193.1	35.5	1.6
ORGAN-13-4C	334	3735	1.0	28.3100	41.2	0.0270	41.4	0.0056	4.5	0.11	35.7	1.6	27.1	11.1	-683.1	1180.2	35.7	1.6
ORGAN-13-3C	873	28375	0.4	22.3332	10.6	0.0343	10.8	0.0056	2.0	0.18	35.7	0.7	34.3	3.6	-67.8	260.4	35.7	0.7
ORGAN-13-8R	193	2624	1.1	21.2987	41.8	0.0362	42.5	0.0056	7.6	0.18	35.9	2.7	36.1	15.1	46.8	1040.8	35.9	2.7
ORGAN-13-17R	212	4146	1.1	23.6815	33.5	0.0327	33.8	0.0056	4.4	0.13	36.1	1.6	32.6	10.9	-212.9	862.4	36.1	1.6
ORGAN-13-12R	210	4284	1.0	18.6363	40.8	0.0416	41.7	0.0056	8.3	0.20	36.2	3.0	41.4	16.9	356.7	959.4	36.2	3.0
ORGAN-13-20C	275	2887	0.8	17.1834	38.7	0.0456	39.3	0.0057	7.1	0.18	36.5	2.6	45.3	17.4	537.2	877.4	36.5	2.6
ORGAN-13-2R	266	1155	0.8	26.0404	61.5	0.0301	62.3	0.0057	10.1	0.16	36.6	3.7	30.1	18.5	-457.4	1779.7	36.6	3.7
ORGAN-13-17C	227	402	0.8	20.6214	29.9	0.0382	31.3	0.0057	9.0	0.29	36.7	3.3	38.1	11.7	123.4	719.2	36.7	3.3
ORGAN-13-21R	211	3300	1.0	14.3013	129.4	0.0557	129.7	0.0058	9.6	0.07	37.1	3.5	55.0	69.6	926.1	554.8	37.1	3.5
ORGAN-13-23R	238	4610	0.8	33.5914	42.2	0.0237	42.6	0.0058	5.2	0.12	37.1	1.9	23.8	10.0	-1182.6	1353.4	37.1	1.9
ORGAN-13-24R	231	5656	0.8	17.9660	31.7	0.0454	33.1	0.0059	9.5	0.29	38.0	3.6	45.1	14.6	438.8	723.0	38.0	3.6



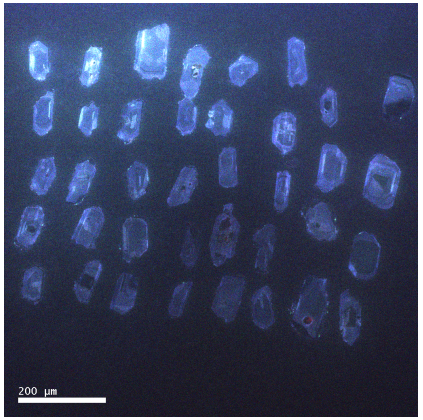


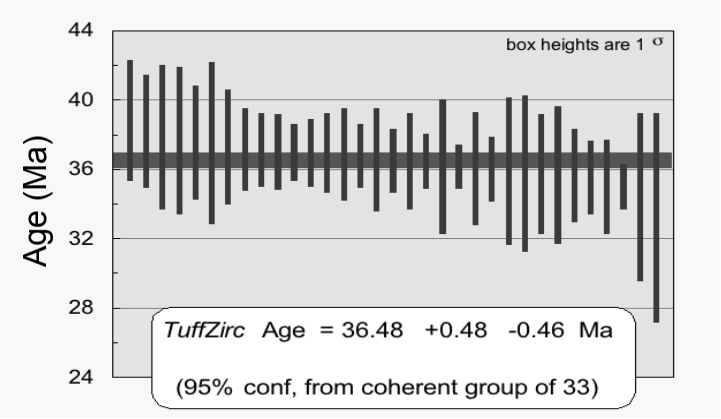
ORGAN-37, Granite of Granite Peak																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-37-1R	157	3080	1.0	16.5163	23.8	0.0454	26.5	0.0054	11.6	0.44	34.9	4.1	45.1	11.7	623.1	521.0	34.9	4.1
ORGAN-37-3C	133	2525	0.6	22.3017	31.5	0.0340	33.0	0.0055	9.7	0.29	35.4	3.4	34.0	11.0	-64.3	786.2	35.4	3.4
ORGAN-37-4C	177	1182	0.7	6.5106	340.7	0.1134	340.9	0.0054	9.4	0.03	34.4	3.2	109.0	367.7	2386.3	360.3	34.4	3.2
ORGAN-37-4R	587	12339	0.5	21.5331	11.2	0.0351	12.0	0.0055	4.5	0.37	35.2	1.6	35.0	4.1	20.5	268.8	35.2	1.6
ORGAN-37-5R	95	4699	1.0	4.7496	474.8	0.1752	475.0	0.0060	14.8	0.03	38.8	5.7	163.9	897.0	2909.7	291.8	38.8	5.7
ORGAN-37-6R	172	3893	0.6	25.3073	36.1	0.0308	38.5	0.0057	13.3	0.35	36.4	4.8	30.8	11.7	-382.6	964.9	36.4	4.8
ORGAN-37-7C	280	2102	0.6	26.6479	59.5	0.0283	59.6	0.0055	4.4	0.07	35.2	1.5	28.4	16.7	-518.6	1728.6	35.2	1.5
ORGAN-37-7R	199	4130	1.1	18.0976	37.4	0.0410	38.5	0.0054	9.1	0.24	34.6	3.2	40.8	15.4	422.6	861.6	34.6	3.2
ORGAN-37-8R	137	3178	1.0	-4.5808	1001.5	-0.1587	1001.5	0.0053	8.7	0.01	33.9	2.9	-175.4	#NUM!	0.0	936.5	33.9	2.9
ORGAN-37-9R	282	8606	0.5	29.8258	49.4	0.0252	49.9	0.0055	6.7	0.14	35.1	2.4	25.3	12.5	-829.7	1487.8	35.1	2.4
ORGAN-37-10R	255	4632	0.4	24.0365	44.0	0.0314	44.9	0.0055	8.9	0.20	35.2	3.1	31.4	13.9	-250.5	1163.4	35.2	3.1
ORGAN-37-11R	93	2220	0.9	6.8153	151.2	0.1147	151.5	0.0057	8.8	0.06	36.5	3.2	110.3	159.6	2308.1	272.4	36.5	3.2
ORGAN-37-12R	233	3490	0.5	21.5579	25.5	0.0369	26.7	0.0058	7.9	0.30	37.1	2.9	36.8	9.6	17.7	621.3	37.1	2.9
ORGAN-37-13C	340	8598	2.0	24.4484	31.6	0.0306	32.2	0.0054	6.0	0.19	34.8	2.1	30.6	9.7	-293.6	823.4	34.8	2.1
ORGAN-37-15R	135	3342	0.7	6.2205	370.8	0.1166	371.0	0.0053	13.9	0.04	33.8	4.7	112.0	415.0	2463.6	388.8	33.8	4.7
ORGAN-37-16R	189	8368	0.7	22.8355	35.9	0.0328	37.1	0.0054	9.3	0.25	35.0	3.2	32.8	12.0	-122.4	912.4	35.0	3.2
ORGAN-37-19R	110	3461	0.9	22.0799	75.5	0.0347	76.3	0.0056	10.9	0.14	35.7	3.9	34.6	26.0	-40.0	2173.2	35.7	3.9
ORGAN-37-21R	176	2564	1.1	12.7784	272.6	0.0592	272.7	0.0055	8.5	0.03	35.3	3.0	58.4	156.0	1153.4	1213.2	35.3	3.0
ORGAN-37-22R	99	2400	0.6	10.0382	151.2	0.0744	151.6	0.0054	11.9	0.08	34.8	4.1	72.8	107.0	1617.0	186.4	34.8	4.1
ORGAN-37-23R	278	6635	0.8	20.6326	30.4	0.0384	30.8	0.0057	4.5	0.15	36.9	1.7	38.2	11.5	122.1	732.2	36.9	1.7
ORGAN-37-23C	506	15379	0.6	22.9749	14.3	0.0335	14.6	0.0056	3.1	0.21	35.9	1.1	33.5	4.8	-137.4	354.8	35.9	1.1
ORGAN-37-25R	169	2580	1.0	30.6321	44.7	0.0248	45.3	0.0055	7.5	0.16	35.4	2.6	24.9	11.1	-906.5	1352.8	35.4	2.6
ORGAN-37-28R	85	2205	0.7	18.7611	126.3	0.0418	127.0	0.0057	13.0	0.10	36.5	4.7	41.6	51.7	341.7	987.7	36.5	4.7
ORGAN-37-29R	389	6658	0.5	24.9662	38.7	0.0308	38.9	0.0056	4.2	0.11	35.8	1.5	30.8	11.8	-347.4	1030.7	35.8	1.5



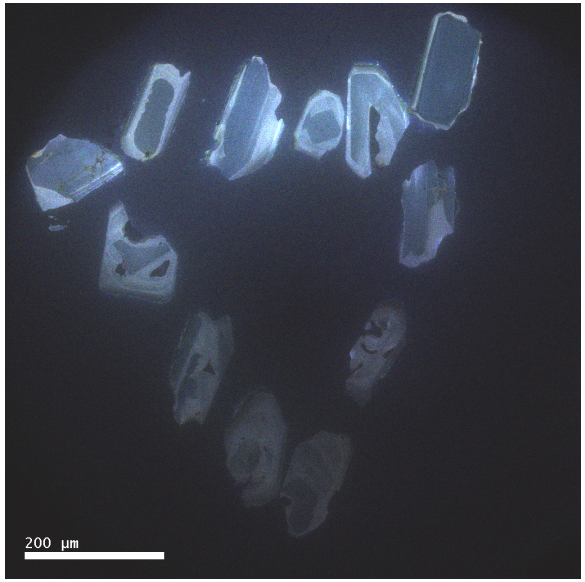


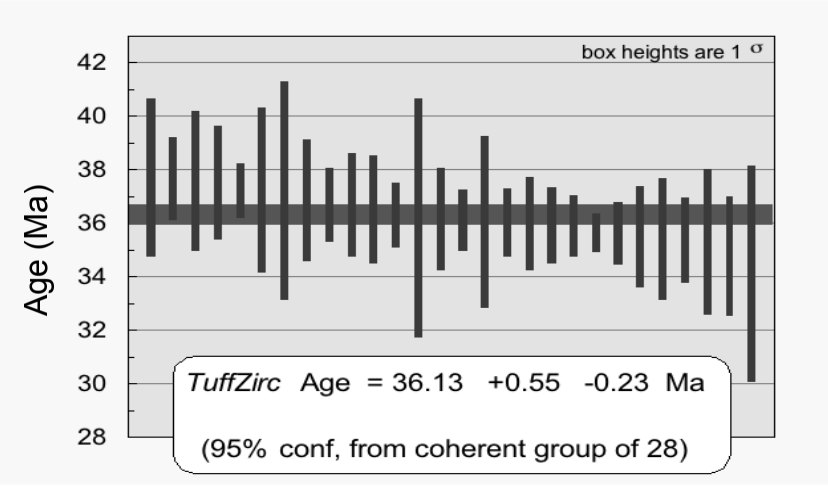
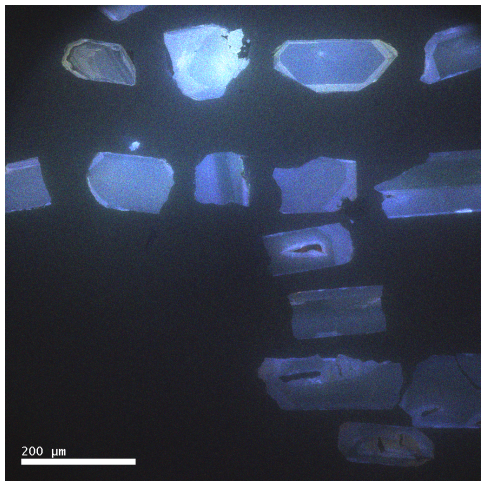
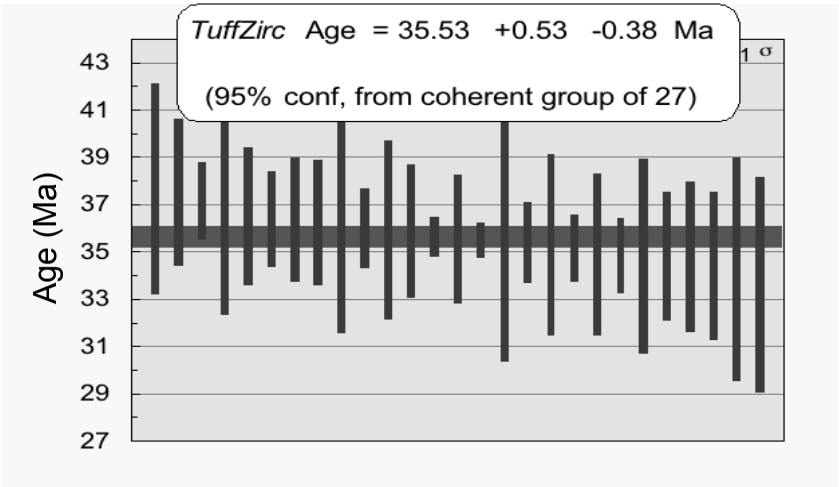
ORGAN-41, ONP alkali feldspar granite																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-41-27C	171	1012	1.0	19.5801	51.2	0.0363	54.4	0.0052	18.2	0.34	33.2	6.0	36.2	19.4	244.1	1258.7	33.2	6.0
ORGAN-41-3C	231	1843	1.1	14.1218	39.1	0.0522	41.5	0.0053	14.1	0.34	34.4	4.8	51.7	20.9	952.0	830.7	34.4	4.8
ORGAN-41-6C	247	3957	0.9	32.0477	46.9	0.0234	47.1	0.0054	3.6	0.08	35.0	1.3	23.5	10.9	-1039.7	1469.4	35.0	1.3
ORGAN-41-5R	286	6150	0.7	24.2762	18.5	0.0309	20.1	0.0054	7.8	0.39	35.0	2.7	30.9	6.1	-275.6	473.7	35.0	2.7
ORGAN-41-2C	284	1466	1.1	26.4091	33.6	0.0288	34.2	0.0055	6.0	0.17	35.5	2.1	28.9	9.7	-494.6	915.7	35.5	2.1
ORGAN-41-10R	173	4825	1.1	17.3768	61.6	0.0440	62.1	0.0055	7.4	0.12	35.6	2.6	43.7	26.5	512.6	1502.7	35.6	2.6
ORGAN-41-22C	233	1001	1.0	18.7198	30.9	0.0409	32.9	0.0055	11.1	0.34	35.7	4.0	40.7	13.1	346.7	715.2	35.7	4.0
ORGAN-41-14R	174	4242	1.3	18.8855	45.2	0.0405	46.2	0.0056	9.7	0.21	35.7	3.4	40.4	18.3	326.7	1078.5	35.7	3.4
ORGAN-41-25R	260	5902	1.2	19.6425	23.0	0.0390	26.2	0.0056	12.6	0.48	35.8	4.5	38.9	10.0	236.8	537.2	35.8	4.5
ORGAN-41-23R	226	4843	1.1	15.4642	38.7	0.0498	40.5	0.0056	11.9	0.29	35.9	4.2	49.3	19.5	763.5	846.2	35.9	4.2
ORGAN-41-7C	267	5627	1.0	21.2184	34.1	0.0364	34.5	0.0056	5.2	0.15	36.0	1.9	36.3	12.3	55.8	835.9	36.0	1.9
ORGAN-41-21R	200	5484	1.2	12.8974	122.0	0.0599	122.3	0.0056	9.0	0.07	36.0	3.2	59.1	70.3	1135.0	357.0	36.0	3.2
ORGAN-41-10C	436	11376	0.7	19.7793	15.9	0.0392	16.3	0.0056	3.4	0.21	36.1	1.2	39.0	6.2	220.7	370.7	36.1	1.2
ORGAN-41-17R	166	4441	1.2	40.4907	178.6	0.0191	178.9	0.0056	10.8	0.06	36.1	3.9	19.3	34.1	-1802.2	0.0	36.1	3.9
ORGAN-41-3R	352	7557	1.2	20.0280	24.9	0.0390	25.2	0.0057	4.3	0.17	36.4	1.5	38.9	9.6	191.8	586.5	36.4	1.5
ORGAN-41-19R	248	4874	1.2	18.2925	39.4	0.0428	40.1	0.0057	7.6	0.19	36.5	2.8	42.5	16.7	398.6	915.0	36.5	2.8
ORGAN-41-23C	356	3281	0.7	18.9642	20.2	0.0413	20.8	0.0057	5.0	0.24	36.5	1.8	41.1	8.4	317.2	463.2	36.5	1.8
ORGAN-41-1R	207	3824	1.1	31.1637	76.8	0.0251	77.3	0.0057	8.1	0.10	36.5	3.0	25.2	19.2	-956.8	2648.7	36.5	3.0
ORGAN-41-12R	254	3776	0.8	17.8255	51.8	0.0443	52.0	0.0057	5.0	0.10	36.8	1.8	44.0	22.4	456.3	1230.1	36.8	1.8
ORGAN-41-9C	274	4714	0.7	32.6622	31.4	0.0242	32.2	0.0057	7.2	0.22	36.9	2.6	24.3	7.7	-1096.8	970.7	36.9	2.6
ORGAN-41-13R	261	6708	1.4	21.5712	32.1	0.0367	32.6	0.0057	6.1	0.19	36.9	2.3	36.6	11.7	16.3	787.9	36.9	2.3
ORGAN-41-4C	217	1521	0.9	22.3017	40.4	0.0355	40.8	0.0057	5.2	0.13	36.9	1.9	35.4	14.2	-64.3	1023.2	36.9	1.9
ORGAN-41-18C	264	11597	0.8	21.1431	34.7	0.0375	35.0	0.0057	4.4	0.13	37.0	1.6	37.4	12.8	64.3	848.9	37.0	1.6
ORGAN-41-9R	344	3654	0.6	18.3936	25.7	0.0431	26.4	0.0058	5.8	0.22	37.0	2.1	42.9	11.1	386.3	587.0	37.0	2.1
ORGAN-41-8R	174	5892	1.1	17.7953	29.3	0.0447	29.9	0.0058	5.7	0.19	37.1	2.1	44.4	13.0	460.1	663.8	37.1	2.1
ORGAN-41-20C	255	6348	1.2	15.9782	38.9	0.0499	39.5	0.0058	6.4	0.16	37.1	2.4	49.4	19.0	694.2	861.3	37.1	2.4
ORGAN-41-15R	155	2546	1.1	9.1712	338.5	0.0872	338.6	0.0058	8.9	0.03	37.3	3.3	84.9	282.8	1783.4	888.8	37.3	3.3
ORGAN-41-19C	235	4342	1.2	-8.9632	654.8	-0.0898	654.9	0.0058	12.5	0.02	37.5	4.7	-95.5	-780.0	0.0	1305.7	37.5	4.7
ORGAN-41-12C	312	10191	0.6	17.5413	23.1	0.0459	24.7	0.0058	8.7	0.35	37.5	3.3	45.6	11.0	491.9	515.8	37.5	3.3
ORGAN-41-24R	216	798	1.0	31.1166	46.9	0.0259	48.3	0.0059	11.3	0.23	37.6	4.2	26.0	12.4	-952.3	1442.1	37.6	4.2
ORGAN-41-16R	149	3233	0.9	22.1565	32.8	0.0366	34.7	0.0059	11.0	0.32	37.8	4.2	36.5	12.4	-48.4	818.2	37.8	4.2
ORGAN-41-1C	242	5562	0.8	23.1085	52.6	0.0354	53.3	0.0059	8.6	0.16	38.2	3.3	35.4	18.5	-151.8	1394.8	38.2	3.3
ORGAN-41-20R	240	4749	1.1	25.5478	49.2	0.0326	50.0	0.0060	9.0	0.18	38.8	3.5	32.6	16.0	-407.2	1358.0	38.8	3.5
ORGAN-41-4C	299	6065	1.1	10.5066	4.3	0.5441	18.4	0.0415	17.9	0.97	261.9	46.0	441.1	66.1	1531.6	80.8	261.9	46.0





ORGAN-45, ONP monzodiorite																		
						Isotope ratios						Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-45-1R	349	4318	1.1	23.6649	22.1	0.0341	23.1	0.0058	7.0	0.30	37.6	2.6	34.0	7.7	-211.2	559.5	37.6	2.6
ORGAN-45-3C	458	5005	1.0	18.0988	8.4	0.0419	9.5	0.0055	4.5	0.47	35.4	1.6	41.7	3.9	422.4	187.4	35.4	1.6
ORGAN-45-3R	183	2663	1.8	7.9589	1160.3	0.0956	1160.4	0.0055	5.3	0.00	35.5	1.9	92.7	#NUM!	2037.9	0.0	35.5	1.9
ORGAN-45-4C	439	6985	0.9	30.5674	28.2	0.0252	28.5	0.0056	3.9	0.14	35.9	1.4	25.3	7.1	-900.4	831.6	35.9	1.4
ORGAN-45-4R	265	3450	1.3	19.7565	26.4	0.0407	27.0	0.0058	5.7	0.21	37.5	2.1	40.5	10.7	223.4	618.8	37.5	2.1
ORGAN-45-5C	344	6225	1.1	22.0891	35.7	0.0346	35.9	0.0055	3.3	0.09	35.6	1.2	34.5	12.2	-41.0	892.9	35.6	1.2
ORGAN-45-5R	268	7959	1.3	26.0228	30.6	0.0292	31.2	0.0055	6.4	0.20	35.4	2.2	29.2	9.0	-455.6	821.7	35.4	2.2
ORGAN-45-6R	468	15175	1.1	24.5795	27.0	0.0314	27.2	0.0056	3.4	0.13	36.0	1.2	31.4	8.4	-307.3	702.4	36.0	1.2
ORGAN-45-7R	331	9034	1.3	20.0824	29.0	0.0384	29.4	0.0056	4.8	0.16	36.0	1.7	38.3	11.0	185.4	688.1	36.0	1.7
ORGAN-45-9R	638	14410	0.9	20.5544	12.2	0.0372	12.4	0.0055	1.9	0.16	35.6	0.7	37.1	4.5	131.1	288.3	35.6	0.7
ORGAN-45-10R	443	17570	0.9	24.5847	28.8	0.0313	29.0	0.0056	3.2	0.11	35.9	1.1	31.3	8.9	-307.9	749.8	35.9	1.1
ORGAN-45-11C	329	7052	0.9	19.7488	16.6	0.0404	18.6	0.0058	8.3	0.45	37.2	3.1	40.2	7.3	224.3	386.3	37.2	3.1
ORGAN-45-11R	354	5704	1.2	23.7819	31.5	0.0329	32.0	0.0057	5.6	0.17	36.5	2.0	32.9	10.4	-223.6	810.3	36.5	2.0
ORGAN-45-13C	399	6195	1.0	19.1127	20.6	0.0408	20.8	0.0056	3.3	0.16	36.3	1.2	40.6	8.3	299.5	473.1	36.3	1.2
ORGAN-45-13R	207	5553	1.4	19.3537	40.9	0.0418	41.6	0.0059	7.8	0.19	37.7	2.9	41.6	16.9	270.8	974.3	37.7	2.9
ORGAN-45-14R	350	6507	1.3	23.6947	33.4	0.0334	34.0	0.0057	6.1	0.18	36.8	2.3	33.3	11.1	-214.3	859.6	36.8	2.3
ORGAN-45-15R	507	32018	1.1	20.1493	14.3	0.0384	14.6	0.0056	3.1	0.21	36.1	1.1	38.3	5.5	177.7	334.5	36.1	1.1
ORGAN-45-16C	612	12368	0.9	20.9819	22.6	0.0375	22.9	0.0057	3.7	0.16	36.7	1.4	37.4	8.4	82.4	542.8	36.7	1.4
ORGAN-45-16R	400	9281	1.1	31.7978	22.3	0.0251	22.5	0.0058	2.7	0.12	37.2	1.0	25.2	5.6	-1016.3	669.6	37.2	1.0
ORGAN-45-17R	344	10268	0.9	20.4226	26.6	0.0358	29.2	0.0053	11.9	0.41	34.1	4.0	35.7	10.2	146.2	634.2	34.1	4.0
ORGAN-45-17C	297	5863	1.1	25.4351	28.2	0.0305	30.8	0.0056	12.4	0.40	36.2	4.5	30.5	9.3	-395.7	748.1	36.2	4.5
ORGAN-45-18C	305	3753	0.9	21.6390	25.9	0.0364	26.4	0.0057	5.2	0.20	36.7	1.9	36.3	9.4	8.8	632.7	36.7	1.9
ORGAN-45-18R	347	2805	1.0	19.4621	27.9	0.0415	28.2	0.0059	4.1	0.15	37.7	1.5	41.3	11.4	258.0	652.3	37.7	1.5
ORGAN-45-19C	349	4570	1.0	21.1707	32.4	0.0377	34.2	0.0058	11.0	0.32	37.2	4.1	37.6	12.6	61.1	789.3	37.2	4.1
ORGAN-45-20R	298	2463	1.3	23.4755	40.5	0.0322	41.2	0.0055	7.7	0.19	35.3	2.7	32.2	13.1	-191.1	1049.8	35.3	2.7
ORGAN-45-22C	353	6135	1.0	20.3815	33.2	0.0366	33.8	0.0054	6.4	0.19	34.7	2.2	36.5	12.1	150.9	796.5	34.7	2.2
ORGAN-45-22R	484	8522	1.2	24.1019	20.0	0.0322	20.7	0.0056	5.3	0.25	36.2	1.9	32.2	6.6	-257.3	511.9	36.2	1.9
ORGAN-45-23R	172	3570	1.5	14.5385	175.3	0.0532	175.6	0.0056	8.9	0.05	36.0	3.2	52.6	90.2	892.2	880.7	36.0	3.2





ORGAN-46, Inequigranular ONP syenite																		
							Isotope ratios					Apparent ages (Ma)						
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)
ORGAN-46-1C	379	8367	1.0	25.0289	39.1	0.0301	39.3	0.0055	4.0	0.10	35.2	1.4	30.1	11.7	-353.9	1043.6	35.2	1.4
ORGAN-46-1R	273	4856	2.0	79.4327	103.9	0.0094	104.0	0.0054	4.5	0.04	34.8	1.6	9.5	9.8	0.0	0.0	34.8	1.6
ORGAN-46-2R	176	2590	1.2	24.9326	45.9	0.0299	46.5	0.0054	7.8	0.17	34.8	2.7	29.9	13.7	-344.0	1239.6	34.8	2.7
ORGAN-46-3C	256	3737	0.7	22.8558	44.6	0.0332	44.9	0.0055	4.7	0.11	35.4	1.7	33.2	14.7	-124.6	1153.3	35.4	1.7
ORGAN-46-3R	200	4728	1.2	1.7805	1593.8	0.4337	1593.8	0.0056	4.7	0.00	36.0	1.7	365.8	#NUM!	0.0	430.7	36.0	1.7
ORGAN-46-4C	184	3763	1.0	34.9683	59.3	0.0213	60.5	0.0054	11.8	0.20	34.8	4.1	21.4	12.8	-1308.5	2040.0	34.8	4.1
ORGAN-46-5R	180	2753	0.6	11.7518	135.8	0.0648	136.0	0.0055	7.6	0.06	35.5	2.7	63.8	84.3	1317.7	312.1	35.5	2.7
ORGAN-46-6C	190	3520	0.9	7.7333	482.8	0.0950	483.0	0.0053	13.8	0.03	34.2	4.7	92.1	453.2	2088.6	1101.9	34.2	4.7
ORGAN-46-6R	125	1855	1.2	19.3681	38.9	0.0381	39.9	0.0053	9.0	0.23	34.4	3.1	37.9	14.9	269.1	923.5	34.4	3.1
ORGAN-46-8C	199	2633	0.9	33.2006	29.0	0.0237	31.3	0.0057	11.7	0.37	36.6	4.3	23.7	7.3	-1146.6	903.8	36.6	4.3
ORGAN-46-8R	139	6528	1.1	11.8160	218.7	0.0652	218.9	0.0056	10.5	0.05	35.9	3.8	64.1	136.9	1307.1	775.2	35.9	3.8
ORGAN-46-9C	116	2686	0.7	15.4807	39.8	0.0500	41.7	0.0056	12.5	0.30	36.1	4.5	49.5	20.1	761.2	872.0	36.1	4.5
ORGAN-46-9R	116	2179	0.8	22.7322	123.9	0.0317	124.6	0.0052	13.6	0.11	33.6	4.5	31.7	38.9	-111.2	1357.1	33.6	4.5
ORGAN-46-10C	153	3213	0.9	0.6740	2712.5	1.1097	2712.6	0.0054	9.9	0.00	34.9	3.4	758.0	#NUM!	0.0	159.1	34.9	3.4
ORGAN-46-11C	227	11514	0.9	22.5835	57.6	0.0330	58.3	0.0054	9.1	0.16	34.8	3.2	33.0	18.9	-95.1	1533.3	34.8	3.2
ORGAN-46-11R	1438	30671	1.9	21.4686	6.9	0.0356	7.3	0.0055	2.3	0.31	35.6	0.8	35.5	2.6	27.7	166.6	35.6	0.8
ORGAN-46-12C	195	4920	2.1	26.3559	56.5	0.0296	56.9	0.0057	7.2	0.13	36.4	2.6	29.6	16.6	-489.2	1616.2	36.4	2.6
ORGAN-46-13R	300	5986	1.4	20.7140	35.8	0.0389	36.7	0.0058	8.3	0.23	37.5	3.1	38.7	13.9	112.9	869.0	37.5	3.1
ORGAN-46-15R	275	3766	1.4	31.7630	35.9	0.0246	36.3	0.0057	5.5	0.15	36.4	2.0	24.6	8.8	-1013.0	1094.6	36.4	2.0
ORGAN-46-19R	99	1620	0.7	20.6828	73.0	0.0376	73.4	0.0056	7.4	0.10	36.2	2.7	37.4	27.0	116.4	2012.6	36.2	2.7
ORGAN-46-20C	100	2890	0.8	8.7747	84.1	0.0866	85.4	0.0055	14.4	0.17	35.4	5.1	84.3	69.2	1863.5	335.1	35.4	5.1
ORGAN-46-21C	164	2079	0.8	7.6934	341.6	0.1000	341.7	0.0056	7.9	0.02	35.9	2.8	96.8	326.2	2097.7	608.9	35.9	2.8
ORGAN-46-22C	504	9867	1.3	21.7724	16.4	0.0350	16.5	0.0055	2.0	0.12	35.5	0.7	34.9	5.7	-6.0	398.3	35.5	0.7
ORGAN-46-23R	182	3606	0.8	32.8891	73.5	0.0238	74.0	0.0057	7.9	0.11	36.5	2.9	23.9	17.5	-1117.9	2571.3	36.5	2.9
ORGAN-46-24R	265	6784	1.4	28.1103	28.9	0.0269	30.9	0.0055	10.9	0.35	35.3	3.8	27.0	8.2	-663.6	810.6	35.3	3.8
ORGAN-46-24C	316	8165	1.0	28.0157	28.5	0.0284	28.8	0.0058	4.3	0.15	37.1	1.6	28.5	8.1	-654.3	796.9	37.1	1.6
ORGAN-46-26R	103	2520	0.9	18.3149	71.9	0.0441	72.9	0.0059	11.8	0.16	37.6	4.4	43.8	31.3	395.9	1884.2	37.6	4.4