

GSA Data Repository Item 2018083

Cooper, A.F., and Palin, J.M., 2018, Two-sided accretion and polyphase metamorphism in the Haast Schist belt, New Zealand: Constraints from detrital zircon geochronology: GSA Bulletin, <https://doi.org/10.1130/B31826.1>.

DATA REPOSITORY

Table DR1. LA-ICP-MS isotope data on detrital zircons from the Haast Schist

Table DR2. Compilation of analytical data for zircon standard R33

Table DR1. LA-ICP-MS isotope data on detrital zircons from the Haast Schist

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U	±% 1se internal error	uncorr'd 207Pb/235U	±% 1se internal error	uncorr'd 207Pb/236Pb	±% 1se internal error	uncorr'd 208Pb/232Th	±% 1se internal error	207Pb corr'd age (Ma)	± 1se absolute internal error	208Pb corr'd age (Ma)	± 1se absolute internal error	208Pb corr'd age (Ma)	± 1se absolute internal error	207Pb* corr'd age (Ma)	± 1se absolute internal error	% 6*/38*/7*/35 concordance	selected 207Pb spot MSWD	206Pb* corr'd age (Ma)	± 1se absolute external error					
OZ27932	OBL-01	99.84	282	0.63	0.30452	3.1	8.3697	7.0	0.1993	6.9	1533.0	4.7	1562.6	48.5	1695.6	147.8	1864.0	150.1	92	9.93	112.7								
OZ27932	OBL-02	18.03	439	0.58	0.30880	2.3	0.4459	8.3	0.01799	8.0	0.01828	6.4	223.4	5.9	235.2	54.8	355.4	77.8	95	4.19	2.82								
OZ27932	OBL-03	20.46	603	0.77	0.04330	1.5	0.3111	5.0	0.0221	4.8	0.01314	5.4	273.1	4.0	275.6	4.7	310.1	36.6	578.2	59.9	89	-0.88	3.46						
OZ27932	OBL-04	25.76	915	0.15	0.03021	1.8	0.2438	7.3	0.0585	7.1	0.01650	9.1	159.9	3.4	188.8	3.3	171.8	18.5	2.0	0.2	110	1.64	2.41						
OZ27932	OBL-05	10.73	108	4.65	0.03795	2.1	0.2444	7.6	0.0507	7.3	0.02055	4.6	175.3	3.8	175.5	3.9	33.0	3.0	0.6	0.22	4.57	1.47	1.27						
OZ27932	OBL-06	4.74	108	0.55	0.04093	2.5	0.3382	9.1	0.0599	8.7	0.01387	5.6	257.4	6.5	277.9	34.9	454.4	51.8	93	0.47	1.76								
OZ27932	OBL-07	3.49	118	0.37	0.02838	2.5	0.2435	9.1	0.0622	8.8	0.01358	6.7	177.6	4.5	175.1	4.5	134.7	29.8	0.2	0.0	130	2.99	0.95						
OZ27932	OBL-08	18.96	551	0.69	0.30908	1.7	0.2484	6.0	0.0581	5.7	0.01092	2.4	194.8	3.4	193.9	3.5	180.2	20.7	7.6	0.9	108	1.46	2.28						
OZ27932	OBL-09	22.09	760	0.03	0.03134	2.0	0.2812	6.9	0.0651	6.6	0.03722	12.1	195.3	4.0	196.5	3.9	214.3	16.9	414.4	29.0	92	1.23	2.54						
OZ27932	OBL-10	14.12	418	1.00	0.02819	1.4	0.1969	5.5	0.0507	5.3	0.00944	3.4	209.0	2.6	177.2	3.3	140.9	36.4	0.4	0.1	119	1.15	2.03						
OZ27932	OBL-11	78.99	896	0.28	0.08785	1.1	0.7293	3.1	0.0602	2.9	0.03007	3.9	541.7	5.9	540.8	6.0	531.5	22.4	491.6	20.6	102	0.38	5.27						
OZ27932	OBL-12	76.85	614	0.44	0.18124	1.8	1.1396	3.6	0.0699	3.1	0.02624	3.8	715.0	12.2	692.2	33.3	625.4	29.8	103	1.10	12.4								
OZ27932	OBL-13	40.16	517	0.53	0.07205	1.5	0.5701	4.0	0.0567	3.7	0.02322	4.2	453.6	6.5	453.5	6.9	452.0	37.5	444.8	36.6	100	0.11	5.85						
OZ27932	OBL-14	34.16	562	0.68	0.05443	1.1	0.4692	3.2	0.0625	3.1	0.01973	2.7	337.9	3.7	336.0	4.1	309.4	28.9	114.5	11.6	109	1.71	3.06						
OZ27932	OBL-15	8.43	292	0.30	0.02859	2.6	0.1939	10.0	0.0492	9.7	0.01714	7.1	181.9	4.8	140.4	25.7	128.0	0.2	128	1.33	1.57								
OZ27932	OBL-16	7.32	198	0.50	0.03494	2.1	0.3171	7.2	0.0568	6.9	0.01281	4.8	218.7	4.6	238.2	26.9	435.9	44.2	92	1.26	1.56								
OZ27932	OBL-17	21.11	527	0.74	0.03460	1.5	0.3563	5.4	0.0747	5.1	0.01564	3.9	212.9	3.3	208.1	3.7	134.5	35.5	0.1	0.0	155	5.17	2.21						
OZ27932	OBL-18	37.49	129	0.27	0.03063	1.0	0.2380	3.5	0.0564	3.3	0.02125	3.8	193.0	1.9	192.6	1.9	186.3	9.6	108.5	5.7	103	2.93							
OZ27932	OBL-19	18.34	595	0.47	0.02920	1.4	0.2276	4.4	0.0565	4.2	0.01088	3.4	184.0	2.6	183.2	2.6	170.5	14.7	7 /not converged	1.9	107	1.28	2.55						
OZ27932	OBL-20	15.56	681	0.22	0.02322	1.0	0.1952	5.5	0.0610	5.0	0.01061	4.3	145.8	1.6	145.7	1.5	143.9	9.2	101	0.11	5.85								
OZ27932	OBL-21	20.18	536	0.72	0.03354	1.0	0.2664	3.6	0.0576	3.5	0.01168	2.7	210.8	2.2	210.2	2.5	201.3	19.8	99.3	10.2	104	1.17	2.22						
OZ27932	OBL-22	59.49	995	0.06	0.06284	1.1	0.5191	3.0	0.0599	2.8	0.04332	4.1	390.3	4.2	388.1	4.2	358.8	13.2	174.1	6.8	108	1.25	8.91						
OZ27932	OBL-23	29.51	663	0.11	0.04649	1.8	0.3802	7.4	0.0593	7.2	0.02810	5.3	290.4	5.3	288.6	5.1	263.1	23.0	44.0	4.2	110	1.50	3.20						
OZ27932	OBL-24	31.21	844	0.75	0.03295	1.1	0.2468	3.2	0.0543	3.0	0.01053	2.6	207.9	2.3	222.8	19.4	371.8	29.9	94	0.04	4.34								
OZ27932	OBL-25	9.81	215	0.68	0.04111	1.3	0.3253	6.1	0.0574	6.0	0.01388	3.5	257.8	3.5	258.0	3.6	259.5	24.4	274.2	25.4	99	0.69	1.52						
OZ27932	OBL-26	17.12	390	0.87	0.03786	1.3	0.2598	4.5	0.0498	4.3	0.01224	3.0	239.9	3.1	238.9	3.3	216.6	81.6	8.3	0.06	2.67								
OZ27932	OBL-27	44.81	1172	0.03	0.04137	1.8	0.3617	5.5	0.0634	5.2	0.02873	9.1	257.6	4.6	259.9	4.6	291.8	15.5	555.8	25.0	89	0.58	5.82						
OZ27932	OBL-28	31.36	800	0.90	0.03367	1.1	0.2406	4.1	0.0518	3.9	0.01066	3.0	213.1	2.3	213.6	2.6	221.3	22.6	29.6	97	-0.07	3.33							
OZ27932	OBL-29	20.99	272	0.33	0.07630	1.1	0.6539	3.8	0.0622	3.7	0.02632	3.7	470.9	5.2	485.9	21.6	551.6	23.3	97	0.43	2.94								
OZ27932	OBL-30	9.23	451	0.06	0.02130	2.8	0.1900	7.8	0.0647	7.2	0.03229	8.8	133.2	3.8	131.5	3.7	103.4	15.9	0.2	0.0	127	3.26	1.55						
OZ27932	OBL-31	12.08	515	0.21	0.02285	2.1	0.2626	7.8	0.0584	7.5	0.02242	6.6	139.5	3.1	135.8	3.0	74.2	26.5	0.0	0.0	183	6.85	1.24						
OZ27932	OBL-32	33.00	373	0.40	0.08667	1.5	0.8238	4.5	0.0689	4.3	0.02515	4.6	529.0	7.6	538.3	7.7	638.7	25.7	1011.9	33.4	84	-0.49	4.48						
OZ27932	OBL-33	20.18	402	0.99	0.04183	1.5	0.3089	6.8	0.0536	6.6	0.01401	4.6	263.5	4.1	262.1	4.7	241.1	43.7	8.4	0.10	109	9.04	1.58						
OZ27932	OBL-34	6.14	134	0.39	0.04224	1.8	0.6503	6.0	0.1117	5.7	0.03030	5.5	247.4	4.7	243.0	4.7	177.5	14.7	47.2	0.2	0.0	137	9.04	1.58					
OZ27932	OBL-35	3.98	92	0.59	0.04056	2.1	0.3358	8.3	0.0601	8.0	0.01267	5.2	253.6	5.5	256.0	5.6	289.8	31.1	571.6	53.0	88	0.11	1.66						
OZ27932	OBL-36	11.14	402	0.09	0.02891	1.8	0.975	0.9	0.0576	9.3	0.02918	3.3	177.0	3.3	173.4	3.3	115.8	20.3	102	3.33	1.36								
OZ27932	OBL-37	16.13	695	0.23	0.02314	2.3	0.2220	10.4	0.0596	10.2	0.01355	7.7	143.8	3.5	137.4	3.3	137.4	23.5	6.7	104	2.79	1.88	143.8	4.6					
OZ27932	OBL-38	15.00	372	0.69	0.05613	1.8	0.3132	7.6	0.0629	7.4	0.01261	9.5	252.4	4.2	227.2	5.1	252.3	49.0	492.4	85.1	90	0.72	1.00						
OZ27932	OBL-39	46.02	1172	1.00	0.03191	1.2	0.2404	4.6	0.0546	4.4	0.01190	3.7	201.4	2.4	196.5	2.9	119.7	32.4	0.0	0.0	164	3.01	4.01						
OZ27932	OBL-40	3.54	14.03	0.21	0.04436	2.6	0.47423	10.8	0.0772	10.5	0.03055	5.6	271.3	7.4	271.5	7.8	274.7	67.2	301.0	94.0	99	0.02	0.91						
OZ27932	OBL-41	5.52	696	0.21	0.02219	2.3	0.1567	7.1	0.0512	6.8	0.00994	6.9	141.0	3.3	139.4	3.3	112.7	16.9	0.2	0.0	124	1.56	1.40						
OZ27932	OBL-42	7.25	2215	0.04	0.03541	2.3	0.2905	6.2	0.0595	5.7	0.01755	7.3	221.9	5.0	223.6	5.0	248.1	14.4	486.2	23.6	90	0.32	17.36						
OZ27932	OBL-43	22.00	765	0.65	0.02495	1.5	0.2043	5.6	0.0596	5.4	0.01312	3.1	156.3	2.4	147.4	2.5	25.5	0.0	0.0	6030	6.96	2.45							
OZ27932	OBL-44	48.90	1870	0.03	0.02826	1.6	0.2209	5.1	0.0567	4.9	0.02307	7.1	178.1	2.9	178.2	2.8	179.7	9.9	199.6	10.5									

UO27948	GCK-48	15.97	667	0.46	0.02200	2.9	0.1620	8.8	0.0534	8.3	0.01128	6.5	139.5	4.0	134.6	4.2	54.8	32.9	0.0	0.0	246	4.06	2.67	139.5	5.0		
UO27948	GCK-49	19.65	698	0.69	0.02463	2.3	0.1844	6.3	0.0543	5.9	0.01073	4.1	155.9	3.7	150.2	3.8	57.8	27.3	0.0	0.0	260	4.28	2.60				
UO27948	GCK-49	18.94	870	0.11	0.02289	2.1	0.1620	8.7	0.0513	8.5	0.01063	7.8	145.5	3.0	144.6	2.9	130.7	13.4	0.9	0.1	111	0.90	2.26	145.5	4.3		
UO27948	GCK-49	20.22	775	0.17	0.02698	2.0	0.1862	7.0	0.0501	6.7	0.01093	8.1	171.5	3.4	170.6	3.4	156.9	15.0	2.4	0.2	109	0.59	3.03				
UO27948	GCK-50	17.52	651	0.45	0.02599	1.3	0.1955	5.7	0.0565	5.6	0.01022	2.8	158.4	2.1	154.0	2.0	84.0	16.0	0.0	0.0	183	3.64	2.02				
UO27948	GCK-62	25.22	1231	0.05	0.02107	1.2	0.1952	7.6	0.0672	7.5	0.01697	26.8	131.4	1.7	129.4	1.9	96.1	24.2	0.1	0.0	135	3.81	1.68	131.4	3.1		
UO27948	GCK-62	12.00	201	0.27	0.02101	1.4	0.1895	4.8	0.0547	4.6	0.02083	2.5	405.5	5.6	402.2	18.5	385.0	17.3	101	0.04	242						
UO27948	GCK-63	13.13	307	0.88	0.03934	0.8	0.2755	2.6	0.0511	2.5	0.01833	1.4	290.0	1.9	283.2	2.4	274.4	22.8	98.5	0.28	225						
UO27948	GCK-64	14.53	336	0.91	0.03700	1.0	0.2707	3.2	0.0548	3.0	0.01911	1.8	231.1	2.3	233.4	2.4	270.0	13.8	273.8	15.5	98	0.38	229				
UO27948	GCK-65	25.61	691	0.35	0.03938	0.9	0.2737	2.4	0.0553	2.3	0.01965	2.8	540.0	4.7	540.3	5.1	543.9	27.7	558.9	27.9	99	0.06	151				
UO27948	GCK-66	17.62	891	0.09	0.02052	2.3	0.1543	6.1	0.0545	5.7	0.01863	17.1	130.0	3.0	127.6	3.0	88.6	13.9	0.1	0.0	144	2.58	6.76				
UO27948	GCK-68	14.05	378	0.35	0.03686	1.2	0.2622	2.7	0.0516	2.4	0.01167	2.5	233.3	2.8	233.4	2.8	235.6	10.7	256.7	11.2	99	0.03	4.68				
UO27948	GCK-69	31.31	832	0.02	0.04028	2.0	0.3297	3.9	0.0592	3.4	0.01682	15.9	252.7	4.0	251.6	4.9	234.8	13.5	72.0	4.3	107	1.43	3.54				
UO27948	GCK-70	13.70	333	0.69	0.03721	0.8	0.2694	3.6	0.0525	3.5	0.01195	1.5	235.0	1.9	234.9	2.0	232.4	13.3	119.0	101	0.27	2.80					
UO27948	GCK-71	17.57	413	0.82	0.03751	1.1	0.2662	3.1	0.0515	2.8	0.01106	1.4	237.2	2.7	239.8	3.2	276.6	24.3	600.8	45.1	87	1.04	4.77				
UO27948	GCK-72	21.32	932	0.21	0.02333	2.4	0.1586	4.7	0.0487	4.0	0.01024	2.4	148.7	3.6	146.9	3.5	117.0	8.6	0.2	0.0	126	1.24	5.01				
UO27948	GCK-72	17.42	398	0.52	0.04130	1.4	0.3110	5.0	0.0546	4.8	0.01354	2.9	259.9	3.7	260.0	3.6	261.1	15.5	271.8	15.7	100	0.36	2.60				
UO27948	GCK-73	13.28	263	1.18	0.04093	1.2	0.1626	4.3	0.0643	4.1	0.01254	2.1	254.6	3.2	260.3	4.1	339.4	36.5	92.0	76.2	77	-0.70	2.81				
UO27948	GCK-74	12.27	358	0.31	0.03556	1.6	0.3035	5.2	0.05656	4.9	0.01581	2.4	208.9	3.4	207.0	3.4	177.4	19.4	0.5	0.1	117	2.80	2.27				
UO27948	GCK-75	19.05	587	0.37	0.02696	1.9	0.3318	14.8	0.0893	14.7	0.03122	28.4	163.2	4.1	157.1	4.1	57.9	68.7	0.0	0.0	272	8.47	5.58				
UO27948	GCK-76	15.85	515	0.28	0.03068	1.5	0.2688	4.6	0.0635	4.3	0.01346	4.6	191.6	3.0	191.6	3.0	191.4	13.8	189.7	13.4	100	1.67	2.26				
UO27948	GCK-77	16.95	708	0.13	0.02509	2.5	0.1702	5.4	0.0492	4.7	0.01112	4.3	159.7	4.0	158.4	4.0	138.1	9.4	0.6	0.0	115	0.82	9.78				
UO27948	GCK-77	4.91	117	0.54	0.03777	1.9	0.4514	6.8	0.0867	6.6	0.02055	5.7	228.7	4.5	223.9	4.5	150.4	40.6	0.1	0.0	149	6.43	1.13				
UO27948	GCK-80	18.76	728	0.48	0.02326	2.4	0.2771	6.8	0.0864	6.3	0.01517	4.6	141.5	3.5	136.1	3.5	47.0	27.6	0.0	0.0	289	8.27	7.96				

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd ratio	±% 1se	207Pb*/238U	internal error	uncorr'd ratio	±% 1se	207Pb*/206Pb	internal error	uncorr'd ratio	±% 1se	207Pb*/232Th	internal error	207Pb corr'd	±% 1se	207Pb corr'd ratio	±% 1se	207Pb corr'd	±% 1se	207Pb corr'd	±% 1se	% common concordance	selected 207Pb spot MSWD	206Pb*corr'd absolute error (Ma)	206Pb*corr'd absolute external error (Ma)
UO67701	TUR-01	25.05	242	0.12	0.10822	1.3	0.9225	5.7	0.0618	5.6	0.03916	7.6	662.3	8.8	666.0	8.4	642.5	30.3	579.7	27.4	103	0.29	12.8					
UO67701	TUR-02	8.13	199	0.65	0.03743	0.9	0.2830	4.1	0.0548	4.0	0.01195	2.2	235.8	2.2	236.4	2.2	245.3	13.7	331.3	17.5	96	0.22	1.65					
UO67701	TUR-03	7.08	164	0.57	0.04049	1.0	0.2837	4.5	0.0508	4.4	0.01240	2.1	256.0	2.6	256.3	2.6	293.5	15.8	99	-0.17	1.84							
UO67701	TUR-04	13.70	280	1.63	0.03603	0.7	0.2663	4.1	0.0536	4.0	0.01084	1.3	227.4	1.6	231.1	2.0	283.5	18.4	741.5	39.0	82	-1.29	1.73					
UO67701	TUR-05	10.89	253	0.73	0.03849	0.9	0.2843	3.4	0.0536	3.3	0.01227	1.7	242.8	2.1	243.1	2.2	248.2	11.7	296.0	13.5	98	0.16	1.91					
UO67701	TUR-06	12.14	284	0.77	0.03768	0.8	0.2649	3.5	0.0510	3.4	0.01196	1.6	238.5	1.8	238.1	1.9	232.5	12.8	177.4	10.0	102	0.17	1.51					
UO67701	TUR-07	14.21	279	0.52	0.04080	0.7	0.3480	2.8	0.0525	2.7	0.01506	2.1	302.7	2.1	301.3	2.1	304.3	10.6	308.4	10.5	100	0.00	1.45					
UO67701	TUR-08	28.88	712	0.13	0.04263	0.8	0.3517	2.4	0.0598	2.2	0.01715	3.6	266.5	2.1	267.7	2.1	284.7	7.1	426.4	9.6	94	0.55	1.81					
UO67701	TUR-08	34.03	798	0.11	0.04516	0.8	0.3431	3.1	0.0551	3.0	0.01707	7.8	283.7	2.2	283.8	2.2	286.2	9.9	304.9	10.3	99	0.32	1.48					
UO67701	TUR-09	17.43	318	0.26	0.05377	1.8	0.5101	5.1	0.0688	4.9	0.01818	3.2	313.1	6.0	325.4	5.9	424.1	2.2	272.0	2.7	134.0	3.7	2.56					
UO67701	TUR-09	21.98	265	0.56	0.07710	1.2	0.5968	5.2	0.0561	5.0	0.02049	2.8	479.1	5.6	453.1	6.2	290.0	13.5	253.0	13.5	105	0.36	1.54					
UO67701	TUR-10	23.99	334	0.38	0.06985	0.9	0.2642	4.0	0.0545	3.9	0.01907	3.0	220.9	2.7	221.4	2.7	221.4	11.7	298.4	98.3	8045.7	103.0	3.25					
UO67701	TUR-11	13.17	123	0.06	0.02469	1.0	0.1845	9.5	0.5286	9.3	0.01091	32.6	158.3	10.1	101.5	10.6	298.4	98.3	8045.7	103.0	3.25							
UO67701	TUR-12	27.2	61	0.61	0.03672	2.5	0.4210	13.4	0.0383	13.1	0.01893	25.4	234.3	6.3	226.5	7.1	271.0	7.3	675.2	152.3	84	2.61	1.16					
UO67701	TUR-13	11.93	136	0.25	0.03898	1.6	0.1849	3.1	0.02688	2.8	0.03558	3.5	598.5	7.0	607.6	14.8	638.4	14.2	99	0.21	3.90							
UO67701	TUR-14	27.59	387	0.41	0.03648	0.9	0.6242	3.5	0.0561	3.4	0.02662	2.8	421.5	4.0	420.2	4.0	402.5	21.6	507.0	16.5	104	1.65	2.54					
UO67701	TUR-15	6.52	158	0.13	0.04193	1.7	0.4340	5.2	0.0751	4.9	0.03966	7.6	257.3	4.5	254.4	4.5	212.2	25.0	5.0	0.1	120	3.99	1.21					
UO67701	TUR-16	27.41	234	0.55	0.03183	1.6	0.3502	1.0	0.0700	6.8	0.03804	2.9	646.5	10.9	102.7</td													

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U ratio	±% 1se	uncorr'd 207Pb/235U ratio	±% 1se	uncorr'd 207Pb/206Pb ratio	±% 1se	uncorr'd 208Pb/232Th ratio	±% 1se	207Pb corr'd internal error	±% 1se	208Pb corr'd internal error	±% 1se	208Pb corr'd internal error	±% 1se	208Pb corr'd internal error	±% 1se	207Pb*/206Pb* concordance	±% common	selected 207Pb corr'd	±% 1se absolute external error					
U85566	SPJ-08	16.50	433	0.46	0.03657	0.7	0.2548	2.7	0.0505	2.7	0.01178	1.8	231.6	1.6	231.2	1.6	225.3	7.5	165.1	5.5	103	0.15	1.63	231.2	3.3				
U85566	SPJ-09	29.47	404	0.25	0.07420	0.7	0.6017	2.4	0.0588	2.2	0.02256	2.3	460.0	3.3	461.8	3.3	482.9	10.5	584.3	11.7	96	-0.08	1.89						
U85566	SPJ-10	39.81	134	0.48	0.27584	0.7	0.39610	1.8	0.1041	1.7	0.080212	1.7	1558.3	10.6	1568.9	10.5	1618.1	17.5	1682.7	16.7	97	0.11	1.74						
U85566	SPJ-11	28.64	625	1.01	0.03848	0.6	0.2758	2.5	0.0520	2.4	0.01187	1.1	243.1	1.5	244.2	1.7	260.0	12.3	404.7	17.7	94	-0.35	2.18						
U85566	SPJ-12	41.93	449	0.49	0.08868	0.6	0.7195	1.6	0.0588	1.5	0.02739	1.4	547.5	3.2	547.9	3.2	552.4	9.9	570.9	9.8	99	-0.03	3.27						
U85566	SPJ-13	86.69	963	0.07	0.09629	0.6	0.8520	1.3	0.0642	1.1	0.03001	2.7	589.5	3.2	592.6	3.2	625.2	6.1	744.9	6.2	95	0.01	4.01						
U85566	SPJ-14	37.76	900	0.19	0.11612	0.5	0.3514	1.6	0.0515	1.5	0.04694	2.9	823.8	4.2	826.2	4.2	847.6	11.2	903.8	11.2	97	0.27	2.13						
U85566	SPJ-15	13.64	317	0.85	0.03951	0.8	0.2836	3.3	0.0548	3.2	0.01547	2.8	456.4	3.7	234.7	2.0	235.0	2.0	239.2	8.5	280.5	9.6	98	0.03	2.50	235.0	3.6		
U85566	SPJ-16	24.52	688	0.13	0.08940	0.9	0.2985	2.9	0.0579	2.8	0.01554	3.7	234.7	2.0	235.0	2.0	236.3	1.9	243.6	12.4	310.0	15.1	97	0.28	1.83	236.7	3.6		
U85566	SPJ-17	99.37	397	0.34	0.14653	0.5	1.241	2.2	0.0555	2.0	0.0593	3.1	747	5.5	747.5	5.5	165.5	15.6	96	0.37	3.24								
U85566	SPJ-18	99.83	277	0.71	0.03562	1.0	0.2659	4.5	0.0582	4.4	0.05893	2.4	232.6	2.2	226.5	2.2	268.6	13.7	654.1	27.5	84	-0.04	0.94						
U85566	SPJ-19	12.06	255	0.64	0.04656	1.6	0.5142	7.0	0.0801	6.8	0.01650	5.5	283.5	4.8	289.3	4.9	366.8	34.6	891.0	65.9	79	1.41	1.78						
U85566	SPJ-20	28.20	615	0.13	0.04821	0.6	0.3409	2.1	0.0513	2.0	0.01608	2.0	304.0	1.8	303.1	1.7	291.8	6.0	202.3	4.3	104	0.14	2.24						
U85566	SPJ-21	25.76	314	0.27	0.08274	0.6	0.6569	2.2	0.0576	2.1	0.02613	1.9	512.4	3.0	512.0	3.0	507.2	11.0	485.9	10.4	101	0.09	1.88						
U85566	SPJ-22	118.18	678	0.30	0.17053	0.7	2.1316	1.9	0.0907	1.7	0.07036	1.4	994.8	6.8	1038.8	16.1	1121.6	16.1	96	1.61	3.54								
U85566	SPJ-23	129.24	714	0.28	0.17816	0.7	2.2208	1.3	0.0904	1.2	0.07326	1.4	1038.0	6.5	1074.6	12.9	1145.5	12.5	97	1.46	6.30								
U85566	SPJ-24	50.93	441	0.17	0.11882	1.6	1.0096	1.8	0.0666	1.7	0.04512	2.0	721.2	4.1	719.8	4.1	705.9	10.0	662.3	10.0	102	0.58	1.90						
U85566	SPJ-25	8.26	168	0.61	0.04531	0.9	0.3045	4.3	0.0487	4.3	0.01459	2.1	286.8	2.6	284.9	2.6	257.7	14.1	111	0.29	1.56								
U85566	SPJ-26	42.54	463	0.24	0.09382	1.5	0.8012	4.0	0.0619	3.7	0.02728	3.6	576.3	8.4	579.2	8.3	610.0	20.7	726.1	22.1	95	-0.19	3.03						
U85566	SPJ-27	90.36	958	0.27	0.09575	1.1	0.8602	2.5	0.0652	2.2	0.02626	3.4	585.7	6.4	592.1	6.4	660.2	13.4	900.0	15.1	90	-0.47	4.94						
U85566	SPJ-28	28.58	321	0.49	0.08462	1.0	0.7037	2.6	0.0603	2.5	0.02723	1.7	522.1	4.9	521.1	4.8	521.6	14.4	519.5	13.8	100	0.31	3.08						
U85566	SPJ-29	126.28	1531	0.02	0.08932	1.4	0.7903	3.0	0.0642	2.6	0.03886	9.0	547.9	7.2	550.8	7.2	582.3	13.6	707.3	14.0	95	0.14	5.27						
U85566	SPJ-30	60.32	676	0.15	0.09305	0.7	0.7823	2.1	0.0610	1.9	0.02842	2.8	572.4	3.9	573.7	3.9	588.3	10.0	644.9	10.2	98	-0.02	2.76						
U85566	SPJ-31	41.99	482	0.63	0.08012	0.8	0.6765	2.0	0.0612	1.8	0.02457	1.7	494.5	3.9	497.3	4.0	530.1	13.2	673.8	15.2	94	-0.09	3.20						
U85566	SPJ-32	17.13	412	0.70	0.03657	0.9	0.2812	3.4	0.0588	3.3	0.01223	2.2	230.1	2.2	229.5	2.3	219.4	14.9	113.3	8.0	105	0.91	2.08	229.5	4.9				
U85566	SPJ-33	62.09	719	0.02	0.09376	1.9	0.8153	2.3	0.0631	2.1	0.013976	9.3	575.2	5.1	577.2	5.1	595.9	10.7	684.5	10.8	96	0.09	2.90						
U85566	SPJ-34	14.09	160	0.45	0.08454	1.2	0.6562	5.8	0.0563	5.7	0.02474	3.1	524.1	6.2	525.3	6.0	539.3	25.7	598.9	27.3	97	-0.43	1.40						
U85566	SPJ-35	9.77	201	0.30	0.04899	1.5	0.3551	6.9	0.0526	6.7	0.01443	5.1	308.3	4.7	309.2	4.6	321.1	20.6	408.1	24.6	96	-0.28	1.76	309.2	7.4				
U85566	SPJ-36	106.40	1179	0.59	0.08417	0.8	0.6949	2.1	0.0599	1.9	0.02457	1.6	519.7	4.0	523.6	4.1	567.7	13.8	748.7	16.2	92	-0.52	4.77						
U85566	SPJ-37	25.00	668	0.43	0.03632	0.9	0.2437	3.4	0.0487	3.3	0.0112	2.6	230.6	2.1	230.4	2.1	228.0	9.1	203.3	8.1	101	-0.18	2.52	230.4	4.8				
U85566	SPJ-38	29.30	806	0.47	0.03498	0.9	0.2546	3.3	0.0528	3.2	0.01104	2.0	221.0	1.9	227.9	9.3	294.5	11.5	97	0.07	2.34	221.5	4.6						
U85566	SPJ-39	35.90	891	0.65	0.03682	0.7	0.2608	2.7	0.0514	2.6	0.0161	2.1	233.0	1.7	233.5	1.8	235.3	11.1	238.0	11.2	100	0.05	2.01	233.0	4.8				
U85566	SPJ-40	16.56	383	0.87	0.03753	1.1	0.2713	4.8	0.0524	4.7	0.01172	2.7	237.1	2.6	237.8	2.7	247.7	17.1	343.1	22.4	96	-0.11	2.08	237.8	5.2				
U85566	SPJ-41	16.19	378	0.85	0.03753	1.6	0.2798	5.9	0.0541	5.7	0.01110	2.8	236.6	3.7	239.5	3.8	280.5	18.9	363.0	35.7	85	-0.85	2.17						
U85566	SPJ-42	433.39	255	0.48	0.16259	0.8	0.6467	1.3	0.0736	1.0	0.04505	1.8	968.8	7.3	976.6	7.6	1036.5	16.2	1165.1	16.3	94	-0.61	15.44						
U85566	SPJ-43	31.47	236	0.45	0.03534	1.2	0.6562	5.8	0.0563	5.7	0.02474	3.1	524.1	6.2	525.3	6.0	539.3	25.7	598.9	27.3	97	-0.43	1.40						
U85566	SPJ-44	19.75	280	0.45	0.03182	0.6	0.47308	1.2	0.1078	1.1	0.08973	1.6	1783.2	8.9	1783.8	9.0	1786.5	14.7	1789.5	13.9	100	-0.18	1.68						
U85566	SPJ-45	14.25	344	0.52	0.03610	0.7	0.65655	0.5	0.04964	1.4	0.02047	2.2	409.9	1.8	410.4	1.8	413.0	1.7	420.1	2.0	423.6	2.2	428.0	2.4	102	-0.52	2.38		
U85566	SPJ-46	33.42	344	0.73	0.03753	1.6	0.26708	3.7	0.0528	3.6	0.01220	2.2	236.7	2.2	237.0	2.2	237.5	17.3	237.6	20.7	237.6	3.4	237.6	3.4					
U85566	SPJ-47	13.66	166	0.52	0.07751	1.0	0.6080	3.6	0.0569	3.4	0.02484	2.8	481.2	5.0	479.0	5.0	464.8	20.4	391.1	17.4	103	0.29	2.26						
U85566	SPJ-48	36.36	482	0.36	0.07441	0.7	0.6239	2.3	0.0608	2.2	0.02335	2.0	450.2	3.0	458.0	3.0	490.8	14.2	652.4	17.3	98	-0.04	2.54						
U85566	SPJ-49	86.85	245	0.34	0.03534	0.8	0.2495	1.9	0.0512	1.7	0.00953	1.7	237.3	1.7	225.5	1.7	251.7	5.2	503.0	8.7	90	-0.75	2.46						
U85566	SPJ-50	45.99	132	0.47	0.03295	1.3	0.2515	5.8	0.0554	5.6	0.01414	4.0	207.7	2.8	207.3	2.8	201.3	17.7	132.6	11.9	103	0.82	2.17						
U85566	SPJ-51	19.69	379	0.46	0.05016	2.1	0.3966	6.5	0.0573	6.2	0.02015	3.0	313.7	6.6	315.8	6.8	343.4	32.4	534.3	45.3</td									

U85568	COL-04	111.05	659	0.31	0.16646	0.5	1.7065	0.9	0.0744	0.8	0.05072	1.2	990.2	4.5	992.2	4.5	1007.9	8.3	1042.1	7.8	98	0.04	5.38		
U85568	COL-05	12.30	131	0.93	0.08036	0.7	0.6331	3.1	0.0571	3.0	0.02397	1.4	498.3	3.6	532.6	24.2	669.9	28.4	94	-0.57	1.63				
U85568	COL-06	49.56	1082	0.36	0.04506	0.7	0.3517	2.7	0.0566	2.6	0.01517	1.9	282.6	2.0	283.0	2.0	289.4	9.1	341.8	10.3	98	0.40	3.20		
U85568	COL-07	57.54	437	0.39	0.12787	0.6	1.1423	1.4	0.0648	1.2	0.03840	1.3	757.9	4.4	776.4	4.4	780.9	10.0	793.7	9.5	99	-0.10	3.85		
U85568	COL-08	112.08	2299	0.12	0.05318	0.5	0.4211	1.3	0.0574	1.2	0.01322	2.1	332.3	1.6	335.3	1.5	374.5	4.1	624.9	5.6	90	-0.39	2.88		
U85568	COL-09	8.37	197	0.69	0.03689	0.9	0.4259	4.2	0.0837	4.1	0.01783	2.7	224.3	2.2	221.4	2.4	177.7	25.2	0.2	0.0	125	5.29	2.12	221.4	3.7
U85568	COL-10	12.56	241	1.05	0.05318	0.8	0.3124	3.9	0.0523	3.8	0.01317	1.5	273.4	2.3	275.3	2.6	301.7	19.8	511.3	30.2	91	-0.64	2.12		
U85568	COL-11	83.19	1118	0.75	0.05937	0.5	0.5205	1.2	0.0702	1.1	0.02342	1.1	446.0	2.0	405.5	2.1	392.7	11.8	104	0.60	5.17				
U85568	COL-12	14.66	342	0.59	0.03972	1.3	0.2838	4.4	0.0518	4.2	0.01236	3.2	250.9	3.4	247.7	3.4	231.2	16.5	497	3.8	108	0.59	2.05		
U85568	COL-13	13.08	304	0.69	0.03869	0.7	0.3149	3.4	0.0514	3.3	0.01233	1.5	245.9	1.8	246.8	1.8	245.4	14.5	300	0.03	1.04				
U85568	COL-14	16.14	387	0.76	0.03728	0.6	0.3567	2.9	0.0499	2.9	0.01141	1.2	262.5	1.5	236.6	1.6	243.1	8.8	305.6	10.7	97	-0.31	1.81		
U85568	COL-15	37.02	210	0.24	0.17429	0.8	2.1835	3.0	0.0909	2.9	0.03875	3.8	1015.8	7.8	1015.6	7.5	1014.4	20.0	1011.8	27.5	100	2.10	3.12		
U85568	COL-16	64.20	1874	0.18	0.03473	1.5	0.3984	4.6	0.0832	4.4	0.02536	3.8	211.4	3.2	212.3	3.1	325.5	17.1	365.0	25.6	94	3.59	7.07		
U85568	COL-17	248.63	2589	0.06	0.09958	1.0	1.1926	4.0	0.0869	3.9	0.10955	8.7	593.0	6.3	591.7	6.3	577.7	36.4	528.2	33.5	102	3.46	9.91		
U85568	COL-18	23.65	594	0.85	0.03465	0.6	0.2570	2.3	0.0538	2.2	0.01094	1.5	218.7	1.3	219.5	1.4	230.1	9.2	340.1	12.8	95	0.06	2.03		
U85568	COL-19	7.92	194	0.49	0.03882	0.9	0.2981	3.7	0.0557	3.6	0.01263	2.4	244.1	2.2	247.8	3.3	252.9	12.6	320.0	15.6	97	0.33	1.61		
U85568	COL-20	34.49	948	0.15	0.03798	0.6	0.2765	2.1	0.0528	2.0	0.01424	3.2	239.8	1.4	239.2	1.4	231.0	5.9	148.8	3.9	104	0.46	1.46		
U85568	COL-21	61.36	941	0.12	0.13072	0.8	0.1524	1.6	0.0691	1.2	0.04030	3.1	788.4	6.4	791.0	6.3	814.7	9.9	879.9	9.1	97	0.13	4.63		
U85568	COL-22	19.79	477	0.68	0.03763	0.8	0.2790	2.6	0.0538	2.5	0.01212	1.7	237.3	1.9	240.5	2.6	269.2	9.5	99	0.26	2.61				
U85568	COL-23	34.57	886	0.44	0.03766	0.6	0.2977	2.2	0.0573	2.1	0.01255	1.7	236.5	1.4	237.3	1.5	249.1	9.2	361.9	12.5	95	0.43	3.14		
U85568	COL-24	49.22	1323	0.38	0.03657	0.5	0.2551	1.5	0.0506	1.4	0.01146	1.2	231.6	1.1	231.6	1.1	231.7	4.1	231.8	4.0	100	-0.03	2.78		
U85568	COL-25	26.18	561	1.23	0.03763	1.0	0.3197	4.0	0.0616	3.9	0.01119	1.9	235.0	2.3	241.0	2.5	324.0	16.9	973.8	37.5	74	-1.24	2.29		
U85568	COL-26	29.96	736	0.81	0.03608	1.0	0.2464	3.4	0.0495	3.2	0.01046	1.7	228.8	2.3	230.9	2.4	260.9	11.5	539.9	20.5	88	-1.07	2.59		
U85568	COL-27	14.48	328	0.80	0.03907	1.3	0.3101	4.1	0.0576	3.9	0.01202	3.2	245.1	3.2	247.8	3.3	285.7	17.2	608.3	30.9	87	-0.32	2.04		
U85568	COL-28	38.70	550	0.60	0.03757	2.1	0.1360	4.6	0.0627	4.1	0.01544	1.9	454.5	9.1	459.5	25.2	485.0	25.0	99	0.71	3.77				
U85568	COL-29	98.39	1439	0.01	0.07238	1.5	0.7935	4.2	0.0795	3.9	0.08523	2.1	437.9	6.5	439.5	6.5	459.0	30.7	557.8	35.1	96	2.51	2.02		
U85568	COL-30	131.41	561	0.12	0.24144	1.0	0.7537	1.8	0.1128	1.4	0.07665	2.9	1356.8	12.7	1392.7	12.8	1574.6	14.6	1827.8	12.8	88	0.12	4.31		
U85568	COL-31	44.13	631	0.09	0.07585	1.7	0.6559	6.9	0.0627	6.7	0.03730	3.12	467.9	8.1	471.0	7.8	508.7	28.3	681.7	34.1	93	0.06	1.83		
U85568	COL-32	5.40	129	0.82	0.03697	1.4	0.2940	6.6	0.0577	6.5	0.01116	3.3	232.1	3.3	234.6	3.4	271.0	23.6	598.0	44.3	87	-0.27	1.11		
U85568	COL-33	6.52	155	0.71	0.03789	1.7	0.2861	6.9	0.0548	6.7	0.01256	3.8	238.7	4.0	237.9	4.0	226.6	23.1	112.1	11.9	105	0.79	2.18		
U85568	COL-34	77.27	272	0.37	0.02787	1.1	0.2051	2.5	0.0534	2.2	0.00901	7.7	176.4	2.0	177.0	2.1	185.8	12.9	299.4	19.5	95	0.13	1.01		
U85568	COL-35	29.30	716	0.50	0.03914	1.0	0.2052	6.4	0.0561	6.5	0.01113	6.4	230.4	5.5	234.7	5.4	283.6	18.8	585.1	32.5	88	-0.36	3.27		
U85568	COL-36	50.50	374	0.21	0.13845	1.5	0.4339	4.6	0.0751	4.4	0.01646	5.1	828.1	11.8	839.0	11.6	931.7	29.2	115.7	31.5	90	-0.40	2.57		
U85568	COL-37	63.24	359	0.16	0.18102	1.1	0.18117	2.4	0.0728	2.1	0.01851	3.1	1075.3	10.9	1078.0	10.8	103.0	16.2	100	-0.25	3.80				
U85568	COL-38	18.02	482	0.29	0.03782	1.1	0.3106	3.9	0.0596	3.8	0.01178	4.0	236.8	2.6	239.5	2.6	276.9	12.5	605.1	23.0	86	-0.06	1.92		
U85568	COL-39	11.91	282	0.62	0.03901	1.1	0.2963	3.8	0.0511	3.6	0.01211	2.5	245.5	2.8	246.9	2.8	266.8	12.7	444.7	19.0	93	-0.09	1.98		
U85568	COL-40	23.96	197	0.36	0.11253	3.5	0.4886	8.5	0.3150	7.8	0.02248	7.7	481.8	25.6	485.9	23.2	533.6	29.4	743.3	37.4	91	0.043	8.47		
U85568	COL-41	21.39	203	0.49	0.10033	1.0	0.18629	4.0	0.0624	3.9	0.03053	2.8	614.9	6.3	637.7	24.7	712.1	26.1	97	-0.09	2.25				
U85568	COL-42	14.24	354	0.34	0.05474	0.8	0.48676	4.8	0.1087	1.2	0.02591	5.0	218.3	12.7	218.1	12.7	1815.1	15.8	1805.5	14.4	100	-0.18	1.95		
U85568	COL-43	8.97	277	0.37	0.02943	1.1	0.18086	2.0	0.0709	2.0	0.01079	1.9	204.0	2.0	204.0	2.0	498.2	20.5	603.3	23.3	95	-0.39	1.41		
U85568	COL-44	36.65	559	0.15	0.10742	1.1	0.20707	0.7	0.0507	1.1	0.01265	1.1	204.5	6.5	205.6	6.5	215.0	12.5	112.1	12.1	85	0.05	2.44		
U85568	COL-45	38.54	648	0.01	0.05654	0.5	0.5024	2.2	0.0550	2.1	0.03299	10.4	405.6	2.2	410.5	2.2	435.5	7.5	99	0.05	2.01				
U85568	COL-46	33.05	243	0.62	0.03944	0.5	0.5070	2.6	0.0586	2.5	0.02556	1.5	549.1	2.8	579.0	2.8	727.0	17.3	112.0	17.3	95	-0.55	1.36		
U85568	COL-47	65.71	338	0.15	0.18099	0.9	0.37889	2.2	0.0867	2.0	0.08083	3.5	115.9	9.7	1166.5	9.5	1211.0	17.9	1201.3	17.3	96	0.32	2.66		
U85568	COL-48	18.40	437	0.79	0.03726	0.7	0.2612	2.8	0.0508	2.7	0.01511	1.2	231.8	3.3	238.8	18.1	307.1	22.3	97	0.96	2.33				
U85568	COL-49	17.18	438	0.38	0.03865	0.8	0.2713	2.7	0.0509	2.6	0.01716	1.5	244.5	1.9	244.9	1.9	250.2	8.1	299.8	9.3	98	-0.17	2.36		
U85568	COL-50	16.00	433	0.24	0.03774	0.7	0.2697	2.8	0.0518	2.7	0.01232	2.2	238.6	1.6	237.4	1.6	237.4	7.5	100	0.14	1.42				
U85568	COL-51	13.58	158	0.73	0.07711	0.7	0.6290	2.8	0.0592	2.7	0.02442	1.5	477.5	3.5	477.6	3.6	479.2	17.1	100	0.27	1.29				
U85568	COL-52	28.04	704	0.84	0.03471	0.5	0.2371	2.0	0.0495	1.9	0.01105	1.1	202.0	1.2	219.7</td										

OU85569	WAN-57	18.67	484	0.73	0.03430	1.6	0.2524	8.4	0.0534	8.2	0.01156	3.9	216.6	3.7	215.7	3.8	201.1	28.4	36.4	5.5	107	0.81	2.98	4.7	
OU85569	WAN-57	22.29	547	0.90	0.03494	1.6	0.2580	5.4	0.0536	5.2	0.01134	3.4	202.0	3.5	220.1	3.9	212.5	30.5	130.3	19.3	104	0.60	3.42	220.1	4.8
OU85569	WAN-58	27.38	448	0.90	0.05280	1.4	0.4222	4.8	0.0580	4.6	0.01591	2.6	229.7	4.6	333.8	4.9	387.3	28.4	720.7	44.9	86	-0.66	3.65		
OU85569	WAN-59	12.34	321	0.42	0.03804	1.1	0.3271	4.1	0.0624	3.9	0.01449	2.9	237.4	2.7	237.3	2.7	235.7	15.0	220.5	14.0	101	1.44	1.73		
OU85569	WAN-60	34.02	413	0.21	0.08434	1.0	0.6845	3.3	0.0589	3.1	0.02732	2.7	521.3	5.0	521.4	5.0	521.2	16.2	521.6	15.7	100	0.13	3.12		
OU85569	WAN-61	15.81	374	0.94	0.03582	1.7	0.2696	4.7	0.0546	4.4	0.01188	4.0	252.8	3.8	225.1	4.3	214.3	34.3	98.4	16.5	105	0.80	2.17	225.1	5.2
OU85569	WAN-63	45.59	1067	1.40	0.03334	3.1	0.2609	0.9	0.0509	4.8	0.01075	2.8	253.3	1.9	210.3	3.1	196.5	39.9	36.4	8.0	107	0.51	3.17		
OU85569	WAN-65	75.44	405	1.04	0.03374	1.0	0.1780	2.3	0.02626	2.1	0.01699	2.6	833.8	7.9	793.3	7.0	132.4	0.0	447	5.9	53.6				
OU85569	WAN-65	92.46	300	0.26	0.03441	1.4	0.1470	3.3	0.01974	3.6	0.01673	7.0	1341.8	17.7	1353.8	17.5	1420.8	35.2	1522.6	35.2	95	0.31	3.78		
OU85569	WAN-66	55.50	1309	0.71	0.03828	1.5	0.2675	5.7	0.0507	5.5	0.01716	4.6	242.3	3.5	242.7	4.1	248.6	32.9	304.6	39.0	98	-0.21	2.77		
OU85569	WAN-67	27.72	305	0.54	0.08486	1.1	0.6943	3.4	0.0593	3.2	0.02805	2.6	524.2	5.8	522.0	6.0	495.7	26.0	376.7	20.5	105	0.62	3.39		
OU85569	WAN-68	12.85	352	0.03	0.03973	1.1	0.2813	3.9	0.0514	3.8	0.01950	9.6	251.1	2.7	250.6	2.6	243.2	9.1	172.4	6.5	103	0.22	1.92		
OU85569	WAN-69	20.25	585	0.08	0.03756	2.2	0.2660	8.3	0.0513	8.0	0.00918	15.5	237.6	5.4	237.9	5.2	242.3	18.2	284.6	20.3	98	-0.08	2.51		
OU85569	WAN-70	41.34	735	0.04	0.06095	1.2	0.5196	3.8	0.01809	9.5	0.01809	3.4	378.0	4.4	381.5	4.3	427.0	13.5	680.1	18.3	89	-0.04	1.44		
OU85569	WAN-70	23.77	438	0.46	0.05269	4.3	0.4391	11.0	0.0604	10.1	0.01388	13.2	328.1	14.1	336.2	15.9	439.2	91.9	1022.6	163.1	77	-1.60	2.12		
OU85569	WAN-70	34.26	380	0.47	0.08634	1.3	0.7848	4.4	0.0629	4.2	0.02706	3.7	530.9	6.8	533.3	7.2	560.4	37.0	671.9	41.6	95	0.11	2.24		
OU85569	WAN-71	24.63	595	0.92	0.03530	0.9	0.2513	3.5	0.0516	3.4	0.01146	1.7	223.4	2.1	210.3	16.1	77.2	6.3	106	0.50	2.61	222.5	3.7		
OU85569	WAN-72	149.61	1055	0.05	0.15106	1.0	1.5361	3.1	0.0737	2.9	0.01678	4.3	902.3	8.6	906.8	8.3	1030.2	19.1	96	0.02	3.34				
OU85569	WAN-72	154.88	960	0.06	0.17056	0.7	1.8074	2.1	0.0769	2.0	0.02525	3.6	1010.8	7.0	1046.7	14.4	1113.5	14.1	97	0.02	3.84				

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd ratio	uncorr'd ±1se ratio	207Pb/238U	207Pb/206Pb	207Pb/232Th	207Pb/238U	selected 207Pb corrd age (Ma)	206Pb using 208Pb	207Pb*+238U age (Ma)	selected 207Pb corrd age (Ma)	206Pb*+238U age (Ma)	207Pb*+238U age (Ma)	selected 207Pb corrd absolute error	206Pb*+238U absolute error	207Pb*+238U absolute external error														
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OU85570	WHA-01	93.12	1041	0.58	0.08285	0.8	0.7165	2.1	0.0627	1.9	0.0272	1.9	510.0	3.9	510.7	4.1	518.6	19.1	553.6	19.7	98	0.49	4.81				
OU85570	WHA-02	37.12	845	0.12	0.04601	0.8	0.3457	2.3	0.0545	2.2	0.02113	3.5	289.1	2.4	287.5	2.4	264.7	7.4	68.6	2.0	109	0.86	2.78				
OU85570	WHA-03	83.95	944	0.09	0.05959	0.9	0.8483	1.1	0.6943	3.4	0.0593	3.2	0.02805	2.6	524.2	5.8	522.0	6.0	495.7	26.0	105	0.62	3.39				
OU85570	WHA-04	14.66	183	0.39	0.07794	1.0	0.6220	3.2	0.0579	3.1	0.02538	2.4	483.2	4.9	482.4	4.8	473.1	16.0	428.4	14.3	102	0.30	1.93				
OU85570	WHA-05	36.77	426	0.22	0.08579	0.8	0.9864	3.0	0.0584	2.9	0.02526	3.5	514.8	4.4	513.8	4.5	502.7	26.2	452.4	23.9	102	3.28	1.79				
OU85570	WHA-06	13.88	316	0.73	0.03944	1.3	0.3142	4.1	0.0578	3.9	0.02516	2.6	247.4	3.2	249.0	3.4	271.6	18.2	28.3	20.8	92	0.16	2.06				
OU85570	WHA-07	16.96	99	0.62	0.15651	0.9	0.15076	2.6	0.0699	2.4	0.04697	1.6	937.8	7.9	938.1	7.9	939.9	20.4	944.2	19.7	100	-0.08	2.13				
OU85570	WHA-08	47.29	840	0.01	0.06124	0.5	0.5307	2.1	0.0628	2.0	0.01583	7.4	379.3	2.0	381.9	1.9	415.7	7.7	607.6	10.0	92	0.33	1.22				
OU85570	WHA-08	49.58	262	0.01	0.06645	0.8	0.7146	2.6	0.0641	2.4	0.02424	7.4	404.5	5.2	408.3	5.2	455.4	11.0	700.1	13.6	90	0.17	3.64				
OU85570	WHA-09	36.02	466	0.07	0.08289	0.9	0.6809	4.0	0.0599	3.9	0.01313	5.6	508.9	4.7	509.2	4.5	512.8	17.2	528.6	17.2	99	0.24	1.98				
OU85570	WHA-10	93.80	832	0.35	0.10807	0.8	0.1075	2.6	0.0710	2.4	0.05074	2.3	654.4	5.4	643.7	5.3	525.6	22.5	434.4	2.3	122	2.83	2.8				
OU85570	WHA-11	19.67	217	0.47	0.08815	1.3	0.7525	4.9	0.0619	4.8	0.02824	3.0	542.3	7.0	543.5	6.9	556.5	24.3	610.1	25.3	98	0.21	2.13				
OU85570	WHA-12	9.84	254	0.74	0.03416	1.3	0.2082	0.9	0.05109	0.8	0.01233	4.2	494.2	4.1	495.7	4.0	473.1	17.1	107	0.07	2.05	209.3	3.9				
OU85570	WHA-13	12.15	364	0.34	0.03333	1.4	0.2402	4.1	0.05202	4.3	0.02423	4.5	450.7	3.4	457.2	3.4	490.9	20.6	505.0	16.5	95	0.08	1.77				
OU85570	WHA-14	32.42	102	0.41	0.04771	1.5	0.3520	4.5	0.0564	4.5	0.02171	4.3	4.04245	3.5	497.7	12.1	992.9	11.9	1032.1	30.4	116.2	30.5	96	-0.60	1.42		
OU85570	WHA-15	55.52	181	0.30	0.03053	1.3	0.6355	1.3	0.15355	1.5	0.07811	1.5	0.02781	3.5	15.5	1.0	1705.5	19.3	1948.8	22.2	19.9	88	-0.44	1.05			
OU85570	WHA-16	32.50	972	0.03	0.03624	1.3	0.2309	8.6	0.06462	8.5	0.02741	1.9	569.4	4.6	570.5	4.8	202.9	19.2	1.2	0.1	113	0.22	1.63				
OU85570	WHA-17	26.97	653	0.72	0.03751	0.9	0.2815	3.3	0.0544	3.2	0.01090	2.4	236.4	2.3	239.4	2.3	282.9	12.5	659.2	24.0	85	-0.88	2.36				
OU85570	WHA-18	28.73	345	0.34	0.08188	1.0	0.16869	3.6	0.0608	3.5	0.02462	2.5	505.3	5.0	508.1	4.9	540.6	17.0	697.9	19.5	94	-0.16	2.12	209.5	4.6		
OU85570	WHA-19	117.34	802	0.14	0.14617	0.8	0.15993	1.8	0.0749	1.6	0.04091	2.2	872.9	6.5	873.9	6.9	932.9	22.9	1061.6	24.1	94	0.02	4.06				
OU85570	WHA-20	49.03	233	0.23	0.04117	1.0	0.13933	4.3	0.0693	4.2	0.02082	4.7	254.5	2.7	250.												

U85571	KAR-15	27.71	654	0.83	0.03678	0.7	0.2611	2.5	0.0515	2.4	0.01228	1.5	232.7	1.7	230.9	1.8	204.2	12.8	1.2	0.1	113	0.87	3.08
U85571	KAR-16	34.94	921	0.49	0.03599	0.7	0.2790	2.2	0.0562	2.1	0.01245	1.4	226.4	1.6	226.2	1.7	222.7	10.7	186.2	9.1	102	0.78	3.21
U85571	KAR-17	28.42	209	0.24	0.03760	0.9	0.1348	3.2	0.0709	3.1	0.04037	3.7	82.7	7.2	83.0	7.0	858.4	21.5	931.6	21.9	97	0.10	1.39
U85571	KAR-18	25.92	956	0.22	0.02737	1.2	0.2510	4.0	0.0665	3.8	0.01497	4.2	170.5	2.1	169.8	2.1	159.2	9.9	13.6	0.9	107	2.48	3.79
U85571	KAR-19	17.33	508	0.39	0.03293	1.0	0.2627	2.8	0.0579	2.6	0.01370	2.3	207.0	2.1	204.8	2.1	172.3	9.1	0.4	0.0	119	1.97	2.81
U85571	KAR-20	28.86	727	0.83	0.03442	0.9	0.2418	2.8	0.0509	2.7	0.01168	2.1	218.0	2.0	215.6	2.4	179.3	24.4	0.3	0.0	120	1.18	4.10
U85571	KAR-21	8.83	212	0.69	0.03565	1.0	0.2762	3.9	0.0336	3.8	0.01231	2.1	237.5	2.4	237.0	2.5	230.0	15.0	160.0	10.7	103	0.53	1.84
U85571	KAR-22	32.74	376	0.28	0.06873	0.9	0.7348	2.6	0.0614	2.4	0.01241	2.2	534.1	4.8	495.6	14.3	335.5	10.0	107	0.99	3.82		
U85571	KAR-23	34.03	94	0.34	0.03441	0.8	0.2488	3.2	0.0559	3.1	0.01246	2.4	126.2	1.3	151.3	1.3	156.4	9.7	0.1	0.0	143	2.67	3.55
U85571	KAR-24	3.75	125	0.94	0.03891	1.1	0.2765	5.1	0.0515	5.0	0.01321	2.2	246.3	2.0	243.1	3.0	194.3	22.3	0.3	0.0	125	1.40	1.66
U85571	KAR-25	16.42	1411	0.15	0.01160	4.3	0.0743	19.2	0.0465	18.7	0.01147	18.0	74.5	3.3	70.4	3.3	29.0	0.0	0.0	0.0	-1738.8	5.42	3.06
U85571	KAR-25	35.08	1353	0.47	0.02438	1.2	0.1817	3.4	0.0541	3.2	0.01021	2.6	154.3	1.8	151.5	1.9	105.5	11.6	0.1	0.0	144	2.48	2.32
U85571	KAR-26	14.27	368	0.58	0.03853	1.1	0.3067	4.3	0.0621	4.2	0.01278	3.3	223.8	2.5	224.4	2.5	232.0	15.2	309.9	19.3	97	1.16	1.78
U85571	KAR-27	17.04	405	0.92	0.03589	1.2	0.2768	4.3	0.0559	4.1	0.01172	2.8	225.8	2.7	225.8	2.9	224.9	19.9	216.6	19.1	100	0.67	2.36
U85571	KAR-28	8.80	162	1.36	0.02431	1.8	0.0507	9.0	0.0867	9.0	0.01442	4.1	255.9	5.1	261.1	5.8	333.4	56.4	874.4	115.7	78	2.30	1.44
U85571	KAR-29	9.43	194	1.0	0.04034	1.2	0.3622	5.4	0.0651	5.0	0.01300	2.6	250.7	3.1	253.5	3.3	201.7	24.9	610.5	44.6	87	0.60	1.05
U85571	KAR-30	15.46	1543	0.03	0.01080	6.9	0.0906	20.4	0.0608	18.7	0.01926	38.1	68.1	4.8	66.2	5.0	34.9	39.9	0.0	0.0	190	4.33	2.37
U85571	KAR-30	44.29	542	0.31	0.08070	1.5	0.7198	5.4	0.0646	5.2	0.03068	7.4	496.5	7.5	498.7	28.8	509.2	28.6	100	0.86	1.45		
U85571	KAR-31	27.53	835	0.47	0.03181	1.4	0.2349	4.1	0.0536	3.8	0.00950	3.8	201.1	2.8	202.7	2.9	226.4	12.1	480.7	22.2	90	-0.39	2.95
U85571	KAR-32	27.94	807	0.14	0.03648	2.7	0.2678	11.9	0.0532	11.6	0.01236	10.8	230.3	6.3	230.7	6.1	236.0	27.5	289.0	32.1	98	0.14	1.90
U85571	KAR-33	77.83	512	0.20	0.01561	1.3	1.5029	3.2	0.0705	2.9	0.04097	4.1	92.6	11.2	92.54	11.1	91.0	23.7	90.8	22.2	101	0.16	2.77
U85571	KAR-34	11.90	509	0.38	0.02260	1.9	0.1939	7.1	0.0622	6.9	0.01084	4.7	141.7	2.7	140.0	2.7	112.7	16.7	0.2	0.0	124	2.83	1.99
U85571	KAR-35	33.37	2404	0.02	0.01439	2.1	0.1573	5.5	0.0793	5.1	0.06786	13.3	88.5	1.9	88.5	1.8	87.2	9.1	54.4	5.6	101	0.35	2.40
U85571	KAR-35	16.07	619	0.39	0.02558	2.5	0.2611	6.5	0.0740	6.0	0.01329	4.7	158.0	4.0	158.1	3.9	160.6	17.9	197.8	21.1	98	0.24	2.14
U85571	KAR-36	38.60	1076	0.33	0.03557	2.6	0.2768	7.6	0.0564	7.1	0.01256	4.0	223.7	5.7	224.0	5.7	227.9	21.7	267.8	24.3	98	0.59	7.16
U85571	KAR-37	68.49	848	0.28	0.08159	2.3	0.6663	4.1	0.0592	3.4	0.02333	2.9	504.5	11.0	507.3	11.0	539.1	18.3	675.9	18.5	94	-0.34	7.99
U85571	KAR-38	38.81	1959	0.03	0.02143	1.7	0.2186	10.9	0.0571	10.5	0.02255	19.9	135.3	3.7	135.4	3.6	137.1	17.1	166.6	20.1	99	0.94	1.57
U85571	KAR-39	53.17	1126	0.08	0.05082	2.2	0.4858	4.4	0.0693	3.8	0.01783	10.1	313.2	6.9	316.9	6.9	365.9	16.0	689.5	23.6	87	0.85	2.91
U85571	KAR-40	12.38	270	0.52	0.04315	1.4	0.4510	5.8	0.0758	5.7	0.01640	4.2	264.4	3.9	267.2	3.9	305.2	27.5	607.3	47.3	88	1.93	2.27
U85571	KAR-41	39.36	442	0.67	0.08102	0.8	0.6653	2.6	0.0596	2.5	0.02515	2.1	500.9	4.1	502.6	4.2	522.0	18.8	607.8	20.7	96	-0.07	2.75
U85571	KAR-42	17.03	361	0.62	0.03432	0.9	0.3224	3.8	0.0538	3.7	0.01370	2.5	273.3	2.5	273.9	2.5	281.9	14.9	348.8	17.7	97	0.05	1.50
U85571	KAR-43	18.78	297	0.13	0.06635	1.0	0.5063	3.9	0.0553	3.8	0.02583	4.4	414.0	4.3	412.4	4.2	392.3	16.5	275.5	11.9	105	0.43	2.07
U85571	KAR-44	42.60	566	0.05	0.08043	1.0	0.6401	2.7	0.0577	2.5	0.04512	5.2	498.4	4.9	496.5	4.9	473.6	12.8	364.3	9.9	105	0.47	3.93
U85571	KAR-45	6.29	110	0.84	0.09467	1.9	0.4166	7.1	0.0608	6.8	0.01676	3.4	309.4	5.8	307.8	6.1	285.0	43.2	103.1	16.9	108	1.54	2.50
U85571	KAR-46	36.31	215	0.07	0.01792	2.1	0.1384	5.7	0.0560	5.3	0.01007	9.2	113.4	2.4	113.4	2.4	112.8	8.0	102.2	7.0	100	0.98	3.24
U85571	KAR-46	20.27	758	0.19	0.02733	2.1	0.2196	8.0	0.0583	7.7	0.01380	3.7	172.0	3.7	170.7	3.6	150.5	16.7	0.7	0.1	113	1.83	
U85571	KAR-47	18.70	218	0.46	0.08202	1.2	0.7195	3.5	0.0636	3.3	0.02559	3.7	504.4	5.9	508.7	6.1	557.1	25.3	760.2	30.9	91	-0.11	2.65
U85571	KAR-48	72.86	461	0.38	0.015295	1.0	1.5747	2.3	0.0747	2.1	0.04931	2.6	912.2	8.8	914.9	9.0	936.8	24.0	88.7	23.9	98	0.30	7.65
U85571	KAR-49	33.58	789	0.54	0.04002	0.7	0.3041	2.8	0.0551	2.7	0.01303	1.9	251.8	1.9	252.0	2.0	255.1	14.7	282.8	15.9	99	0.39	2.20
U85571	KAR-50	18.29	820	0.29	0.02192	2.0	0.1836	9.9	0.0607	9.6	0.01122	5.1	137.8	2.9	135.8	2.8	104.6	18.3	120.2	12.3	103	0.28	2.23
U85571	KAR-51	2.47	233	0.07	0.01380	5.1	0.2559	2.9	0.0529	2.8	0.01246	4.7	323.0	3.7	323.0	3.7	287.7	40.7	644.0	306.4	576.2	12	10.94
U85571	KAR-51	115.03	1176	0.01	0.01614	1.4	0.9612	2.6	0.0567	2.2	0.03466	12.9	647.0	8.7	650.0	8.6	683.3	12.9	793.7	12.1	95	0.01	5.59
U85571	KAR-52	10.50	292	0.36	0.03496	1.6	0.3024	7.1	0.0627	6.8	0.01512	5.0	218.3	3.6	216.7	3.6	192.4	23.2	113	2.23	1.63		
U85571	KAR-53	7.56	228	0.38	0.03223	1.0	0.2178	14.4	0.0405	14.3	0.01176	6.0	206.9	4.3	202.6	4.0	135.9	26.7	166.6	20.1	149	0.95	6.60
U85571	KAR-53	8.82	166	0.64	0.03650	1.5	0.3325	6.8	0.0567	6.6	0.01761	4.1	266.6	4.1	258.8	4.1	240.4	36.8	184	3.60	1.73		
U85571	KAR-54	5.24	1058	0.13	0.02329	1.2	0.1926	3.1	0.0514	3.0	0.02506	2.3	240.7	3.7	240.7	3.7	207.0	15.9	104	0.03	3.70		
U85571	KAR-54	15.38	365	0.04	0.03292	1.2	0.1926	3.0	0.0510	4.9	0.01511	4.9	238.3	3.8	238.3	3.8	181.6	11.1	95	0.11	3.75		
U85571	KAR-54	14.04	191	0.01	0.02982	1.0	0.1612	3.2	0.0534	4.4	0.01579	4.3	2059.8	2.7	2059.8	2.7	181.6	11.1	136	0.11	3.71		
U85571	KAR-55	3.26	268	0.06	0.01263	2.2	0.1676	7.0	0.0709	6.7	0.01936	8.3	75.4	1.									

U085572	PAB-65	3.12	344	0.02	0.00959	6.1	0.1783	27.7	0.1348	27.0	0.06411	14.6	54.9	4.3	58.1	3.6	110.7	45.3	1470.8	332.3	53	5.55	1.54		
U085572	PAB-65	14.00	1245	0.01	0.01225	1.4	0.0043	6.2	0.0559	6.0	0.05535	12.5	77.7	1.2	77.7	1.1	77.9	5.8	85.2	6.2	100	1.00	1.56		
U085572	PAB-66	47.95	305	0.12	0.16345	1.5	1.6968	4.5	0.0753	4.2	0.05496	5.4	971.9	13.7	974.2	13.3	992.2	30.3	1032.2	29.5	98	0.19	2.71		
U085572	PAB-67	8.45	802	0.01	0.01153	1.7	0.0692	7.9	0.0435	7.7	0.01362	20.8	74.3	1.3	73.6	1.2	63.1	5.4	0.3	0.0	117	0.37	1.22		
U085572	PAB-68	6.24	628	0.01	0.01049	4.3	0.0723	19.3	0.0500	18.9	0.06678	63.3	67.1	3.0	66.7	2.9	59.7	13.8	0.5	0.1	112	0.94	1.99		
U085572	PAB-68	7.91	390	0.21	0.02043	2.4	0.1471	9.1	0.0522	8.8	0.01183	7.2	129.8	3.1	126.9	3.2	78.7	23.9	0.1	0.0	161	2.73	1.68		
U085572	PAB-69	3.81	418	0.02	0.00958	2.9	0.01022	10.9	0.0774	10.5	0.04356	12.5	59.2	1.8	58.9	1.7	53.8	12.0	0.6	0.1	110	4.21	2.27		
U085572	PAB-69	3.94	394	0.02	0.01059	3.1	0.1034	12.8	0.0708	12.4	0.03372	14.8	66.0	2.1	65.5	2.1	56.4	14.8	0.3	0.1	116	3.68	1.61		
U085572	PAB-70	4.62	232	0.42	0.01896	2.8	0.1558	11.0	0.0596	10.6	0.07733	15.2	119.4	3.5	120.2	3.5	132.9	21.3	366.1	51.9	90	0.71	1.59	119.4	3.8
U085572	PAR-71	2.88	299	0.03	0.01012	3.1	0.1022	15.4	0.0732	15.1	0.03737	15.8	62.9	2.1	61.8	2.0	44.8	18.1	0.1	0.0	138	4.75	0.95		
U085572	PAR-72	6.47	668	0.01	0.01053	1.7	0.1014	7.6	0.0699	7.4	0.03122	13.4	65.7	1.2	66.3	1.2	76.5	8.2	408.0	36.8	87	1.85	1.61		
U085572	PAR-80	19.33	646	0.82	0.02618	0.7	0.1963	3.2	0.0544	3.1	0.08781	1.4	165.6	1.2	165.4	1.3	162.2	8.5	117.7	6.3	102	0.73	1.34	165.6	3.0
U085572	PAR-81	22.00	528	1.09	0.03443	1.1	0.2320	2.6	0.0489	2.3	0.01032	1.2	218.7	2.3	220.2	2.5	243.2	15.5	471.0	26.7	91	-0.93	3.87	218.7	4.3
U085572	PAR-82	9.20	404	0.67	0.02066	1.1	0.1400	3.8	0.0491	3.6	0.06073	2.6	131.8	1.5	131.4	1.5	125.8	8.1	25.2	1.7	104	0.33	1.81	131.8	2.6
U085572	PAR-83	6.97	71	0.61	0.09103	1.2	0.5753	3.7	0.0603	3.5	0.02728	2.7	560.6	6.8	563.6	8.3	596.8	57.3	725.0	65.3	94	-0.38	2.30	560.6	11.5
U085572	PAR-84	7.97	163	0.22	0.04817	1.9	0.4052	3.2	0.0610	2.6	0.03235	5.4	300.2	5.6	292.1	5.5	172.5	21.8	0.0	0.0	169	3.78	2.83		
U085572	PAR-85	26.13	587	0.08	0.04765	0.7	0.3510	2.3	0.0534	2.2	0.0473	3.4	299.7	2.0	300.2	2.0	306.4	6.2	353.8	6.7	98	-0.02	2.34	299.7	5.3
U085572	PAR-87	6.59	651	0.01	0.01107	1.9	0.0776	10.3	0.0509	10.1	0.01271	13.7	70.7	1.4	70.7	1.3	71.4	7.6	94.3	9.8	99	0.36	1.40		

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U ratio	±% 1se	uncorr'd 207Pb/235U ratio	±% 1se	uncorr'd 207Pb/206Pb ratio	±% 1se	uncorr'd 208Pb/232Th ratio	±% 1se	207Pb corr'd 206Pb/238U age (Ma)	±% 1se	208Pb corr'd 206Pb/238U age (Ma)	±% 1se	208Pb corr'd 206Pb/238U age (Ma)	±% 1se	208Pb corr'd 206Pb/238U age (Ma)	±% 1se	common 206Pb using 207Pb/206Pb	selected 207Pb corrd 206Pb/238U	±% 1se absolute external error		
UO85573	BBL-01	4.19	210	0.47	0.01879	2.2	0.1521	7.3	0.0587	6.9	0.00740	5.4	118.5	2.7	118.7	2.8	121.8	16.6	181.8	23.7	97	1.10	2.21		
UO85573	BBL-02	5.00	193	1.56	0.01912	2.1	0.1469	8.0	0.0557	7.8	0.00644	4.2	121.0	2.6	119.3	3.7	90.9	48.3	0.1	0.1	131	2.34	1.97		
UO85573	BBL-03	7.52	382	0.66	0.01768	1.5	0.1530	6.2	0.0628	6.1	0.00652	5.1	111.0	1.8	111.9	1.9	127.4	17.3	426.4	50.0	88	0.92	1.99	111.0	2.6
UO85573	BBL-04	9.78	521	0.40	0.01813	1.9	0.1250	7.1	0.0500	6.8	0.00693	5.0	115.6	2.2	114.4	2.2	95.0	12.6	0.3	0.0	120	1.25	3.42		
UO85573	BBL-05	6.63	342	0.66	0.01746	1.6	0.1383	6.7	0.0574	6.5	0.00664	4.0	110.3	1.8	108.9	2.0	85.8	17.8	0.2	0.0	127	2.41	1.88	110.3	2.6
UO85573	BBL-06	51.71	906	0.31	0.01657	1.7	0.1519	3.6	0.0659	3.1	0.02270	3.7	349.5	6.0	350.4	6.0	361.7	18.4	434.5	20.5	97	1.25	8.99		
UO85573	BBL-07	29.91	568	0.17	0.01547	1.6	0.1449	4.5	0.0595	4.2	0.01807	5.2	341.2	5.4	343.5	5.4	373.8	17.1	565.6	22.6	92	0.06	4.97		
UO85573	BBL-08	11.25	601	0.62	0.01707	2.2	0.1358	8.4	0.0577	8.1	0.00622	5.0	107.8	2.4	107.6	2.5	104.2	19.0	29.7	5.6	103	1.37	2.51		
UO85573	BBL-09	35.95	699	0.13	0.01546	1.0	0.14064	3.1	0.0544	2.9	0.01966	3.6	339.5	3.5	339.1	3.4	332.8	10.2	290.0	8.6	102	0.28	2.86		
UO85573	BBL-10	15.88	349	0.04	0.01947	1.8	0.1412	7.0	0.0610	6.7	0.02469	11.9	306.9	5.5	309.1	5.3	338.3	21.3	544.4	30.3	91	0.32	2.05		
UO85573	BBL-11	43.12	2282	0.54	0.01750	2.5	0.1179	5.3	0.0489	4.7	0.00657	4.0	111.8	2.8	110.3	2.9	86.7	15.1	0.2	0.0	127	1.38	9.44	111.8	3.4
UO85573	BBL-11	57.23	2850	0.63	0.01803	2.5	0.1308	11.6	0.0526	11.3	0.00697	7.3	114.6	3.0	113.7	3.5	99.8	35.9	0.5	0.2	114	1.28	10.74		
UO85573	BBL-12	28.89	1547	0.60	0.01726	1.3	0.1207	3.6	0.0507	3.3	0.00655	3.3	110.0	1.5	110.3	1.6	115.7	9.3	226.7	17.1	95	0.00	5.89	110.0	2.4
UO85573	BBL-13	8.11	413	0.91	0.01655	1.9	0.1438	7.8	0.0630	7.6	0.00601	4.4	103.9	2.1	104.3	2.3	111.1	20.4	258.5	43.9	94	1.43	2.85		
UO85573	BBL-14	8.85	489	0.70	0.01609	1.3	0.1173	5.0	0.0529	4.9	0.00595	3.4	102.3	1.4	101.4	1.4	85.9	10.0	0.3	0.0	118	1.51	1.25	102.3	2.3
UO85573	BBL-15	5.82	325	0.91	0.01484	1.7	0.1348	7.1	0.0659	6.9	0.00620	4.6	92.8	1.6	91.0	1.8	60.8	19.3	0.1	0.0	150	4.15	1.20		
UO85573	BBL-16	21.55	1260	0.35	0.01674	1.1	0.1411	4.1	0.0611	3.9	0.00708	3.5	105.3	1.2	105.0	1.2	99.3	8.5	167.0	not converged	0.7	106	1.93	105.3	2.2
UO85573	BBL-17	14.48	810	0.39	0.01740	1.4	0.1316	5.9	0.0548	5.7	0.00633	4.3	110.3	1.6	110.4	1.6	112.0	10.5	144.2	13.1	99	0.72	2.83		
UO85573	BBL-18	23.03	1095	0.26	0.02118	1.1	0.1630	4.0	0.0558	3.8	0.00886	3.4	133.9	1.5	133.2	1.5	121.8	9.8	1.1	0.1	109	1.41	2.38		
UO85573	BBL-19	4.97	301	0.53	0.01539	2.3	0.1421	9.3	0.0669	9.0	0.00626	5.5	96.2	2.3	95.6	2.3	87.0	19.0	0.8	0.2	110	2.87	1.48		
UO85573	BBL-20	8.36	391	0.83	0.01846	1.7	0.1422	5.6	0.0559	5.4	0.00661	3.6	116.8	2.0	116.1	2.2	105.0	19.5	0.7	0.1	111	1.51	2.13		
UO85573	BBL-21	17.97	576	0.25	0.02388	1.2	0.1520	8.0	0.1300	8.0	0.04428	10.3	162.2	3.0	155.0	3.1	36.5	60.8	0.0	0.0	424	14.26	1.15		
UO85573	BBL-22	9.07	532	0.47	0.01620	1.3	0.1373	5.9	0.0615	5.7	0.00613	4.0	101.9	1.4	102.2	1.4	107.0	9.8	215.6	18.5	95	1.35	1.55		
UO85573	BBL-23	16.65	842	0.47	0.01869	1.5	0.1816	5.5	0.0705	5.3	0.00760	4.8	116.2	1.8	117.2	1.8	133.8	12.9	439.0	36.3	88	1.83	4.20		
UO85573	BBL-24	8.75	468	0.41	0.01823	1.4	0.1317	5.9	0.0524	5.7	0.00590	4.2	115.9	1.7	116.2	1.7	121.6	10.3	227.7	18.1	96	0.21	1.83		
UO85573	BBL-25	12.33	630	0.94	0.01658	1.6	0.1273	5.5	0.0557	5.3	0.00562	3.4	105.0	1.7	104.5	2.2	104.5	23.2	95.5	21.2	100	0.96	2.41		
UO85573	BBL-26	86.48	805	0.17	0.01086	1.2	0.9345	5.3	0.0611	5.1	0.03711	4.0	678.5	8.1	676.7	7.8	658.7	28.9	597.4	26.4	103	0.16	6.36		
UO85573	BBL-27	20.98	352	0.37	0.01680	1.6	0.1580	5.5	0.0599	5.2	0.01754	4.1	366.4	5.9	370.5	5.9	422.6	23.1	718.0	33.3	88	-0.42	3.77		
UO85573	BBL-28	7.12	396	0.84	0.01501	2.0	0.12037	5.5	0.0564	6.2	0.00773	4.8	90.1	2.0	88.2	2.2	55.6	24.5	0.0	0.0	150	8.26	2.37		
UO85573	BBL-29	7.78	351	0.88	0.01882	1.2	0.1410	4.9	0.0543	4.7	0.00680	3.6	119.4	1.5	118.0	1.7	95.4	16.6	0.2	0.0	124	1.89	1.16		
UO85573	BBL-30	2.54	105	1.02	0.01966	1.2	0.2132	9.1	0.0853	8.8	0.00582	5.9	119.9	2.8	117.0	3.2	69.4	39.5	0.0	0.0	169	6.85	0.97		
UO85573	BBL-31	6.17	281	1.03	0.01824	1.8	0.1455	8.9	0.0571	8.7	0.00831	4.1	115.3	2.2	114.2	2.4	96.5	23.9	0.3	0.1	118	2.02	1.74		
UO85573	BBL-32	15.06	614	1.11	0.02006	1.4	0.14895	6.0	0.0540	5.8	0.00855	3.8	127.2	1.8	127.4	2.3	131.1	23.8	196.9	34.5	97	2.06	2.46		
UO85573	BBL-33	9.07	394	0.39	0.02016	1.2	0.15620	6.2	0.0583	6.2	0.00591	3.8	114.6	1.9	116.0	2.3	137.7	23.1	529.9	73.7	84	-0.32	2.05		
UO85573	BBL-34	15.75	296	1.70	0.02010	1.6	0.12880	5.5	0.0555	5.2	0.01227	3.6	236.7	3.8	235.3	6.0	229.8	70.3	164.9	51.9	103	0.75	2.70		
UO85573	BBL-35	13.18	482	0.38	0.02065	2.4	0.1239	7.4	0.0596	7.0	0.01314	6.3	163.7	4.0	160.2	4.0	105.2	1.0	0.1	0.0	152	3.36	3.28		
UO85573	BBL-36	15.19	407	0.30	0.02076	2.4	0.12388	6.7	0.0516	6.2	0.01318	5.0	202.2	4.9	197.9	5.0	141.5	30.4	0.0	0.0	176	2.88	4.75		
UO85573	BBL-36	18.89	901	0.47	0.03953	1.2	0.2388	5.7	0.0517	4.3	0.01243	3.5	212.3	2.5	209.9	2.6	175.0	16.2	0.3	0.0	120	1.26	3.45		
UO85573	BBL-37	7.82	359	1.19	0.01760	1.4	0.1261	5.7	0.0519	5.6	0.00547	4.9	112.0	1.6	113.1	1.9	130.6	18.5	461.8	55.6	87	-0.53	1.47	112.0	2.8
UO85573	BBL-38	22.52	1207	0.82	0.01632	1.3	0.1113	5.3	0.0495	5.1	0.00519	3.1	104.2	1.4	104.6	1.5	110.8	12.0	246.9	24.8	94	-0.21	3.71	104.2	2.6
UO85573	BBL-39	9.88	161	0.58	0.01669	1.4	0.14700	4.4	0.0588	5.1	0.01804	4.0	354.7	4.9	357.1	5.0	389.5	26.9	584.8	36.5	92	0.04	1.62		
UO85573	BBL-40	7.51	741	1.21	0.01761	1.8	0.1593	6.2	0.0607	5.9	0.00607	3.1	109.6	2.1	109.9	2.4	114.1	22.5	202.0	38.0	96	2.40	1.99	109.6	3.1
UO85573	BBL-41	21.79	211	0.54	0.01717	1.3	0.1268	4.3	0.0536	4.1	0.00604	3.3	109.0	1.4	108.7	1.4	103.6	8.7	6.2	0.5	105	0.95	3.15		
UO85573	BBL-42	19.46	1211	0.35	0.01578	1.5	0.1288	4.6	0.0592	4.4	0.00621	3.1	99.9	1.5	104.7	1.7	215.6	14.0	95	1.08	3.32				
UO85573	BBL-43	59.57	1030	0.37	0.01604	1.4	0.1381	5.0	0.0524	4.7	0.00625	3.5	112.8	1.7	111.3	19.8	87.4	18.0	0.2	0.0	127	1.81	1.72		
UO85573	BBL-44	13.94	415	0.54	0.02086	1.5	0.2111	8.0	0.0961	5.5	0.01235	4.1	195.5	3.0	192.1	3.1	140.0	22.8	0.1	0.0	137	1.98	2.29		
UO85573	BBL-45	81.34	848	0.18	0.01970	1.4	0.1554	3.5	0.0701	3.3	0.04509	4.2	599.7	8.1	601.4	21.3	607.1	20.5	100	1.20	11.31				
UO85573	BBL-46	55.34	1042	0.47	0.01605	1.2	0.13941	3.5	0.0653	3.8	0.01673	3.8	318.7	3.7	318.5	3.8	329.2	17.4	405.3	20.3	97	0.18	5.75		
UO85573	BBL-47	7.08	327	0.71	0.01855	2.8	0.1292	14.1	0.0505	13.8	0.00707	7.1	118.2	3.4	115.9	3.5	79.4	29.8	0.1	0.0	146	2.16	2.00		
UO85573	BBL-47	27.16	1206	0.47	0.02166	2.2	0.1455	7.8	0.0487	7.5	0.00667	5.5	1												

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/	uncorr'd 206Pb*/238U ratio	±% 1se	uncorr'd 207Pb*/235U ratio	±% 1se	uncorr'd 207Pb*/206Pb ratio	±% 1se	uncorr'd 207Pb*/232Th ratio	±% 1se	207Pb corr'd age (Ma)	±% 1se absolute internal error	207Pb corr'd age (Ma)	±% 1se absolute internal error	207Pb corr'd age (Ma)	±% 1se absolute internal error	207Pb corr'd age (Ma)	±% 1se absolute internal error	207Pb corr'd age (Ma)	±% 1se absolute internal error	%common concordance	selected 207Pb spot MSWD	corr'd 206Pb*/238U age (Ma)	±% 1se absolute external error		
U95574	CBL-074	19.33	453	0.57	0.03983	1.7	0.2928	5.7	0.0533	5.4	0.01271	4.0	251.1	4.2	251.2	4.5	251.6	29.5	256.6	29.7	100	0.24	51.4					
U95574	CBL-02	9.67	324	0.65	0.02723	1.9	0.1774	6.4	0.0472	6.1	0.0875	4.8	173.7	3.3	172.6	3.5	155.6	23.3	1.1	0.2	111	0.36	19.2					
U95574	CBL-03	12.17	360	0.17	0.03414	1.8	0.3192	5.2	0.0678	4.8	0.02569	4.9	211.9	3.8	209.3	3.7	169.7	17.3	0.3	0.0	123	3.35	32.9					
U95574	CBL-04	13.86	240	0.38	0.05656	1.3	0.3880	5.0	0.0498	4.9	0.01798	3.4	356.3	4.7	354.5	4.7	331.2	19.0	170.9	10.3	107	0.03	2.27					
U95574	CBL-05	33.77	1150	0.69	0.02641	1.8	0.1984	4.7	0.0545	4.3	0.00888	4.2	167.0	3.0	167.3	3.1	171.5	17.8	229.0	22.8	98	0.46	4.86					
U95574	CBL-06	4.39	87	0.63	0.04641	2.3	0.3754	8.9	0.0587	8.6	0.01360	6.3	290.2	6.6	296.1	6.9	375.4	37.7	899.1	70.2	79	-1.28	1.31					
U95574	CBL-07	106.97	1099	0.12	0.10233	1.5	1.4523	3.6	0.1029	3.3	0.04510	4.8	597.2	8.9	623.7	8.9	872.4	23.2	1570.6	29.3	71	0.72	6.74					
U95574	CBL-08	8.90	342	0.19	0.02678	1.4	0.2044	5.2	0.0553	5.0	0.01162	6.6	169.2	2.3	168.6	2.3	159.8	11.7	33.8	2.6	106	1.06	1.47					
U95574	CBL-09	18.08	588	0.16	0.03190	1.4	0.2477	5.3	0.0563	5.1	0.01326	4.7	200.9	2.9	201.1	2.9	204.0	12.5	237.1	14.0	99	0.66	3.15					
U95574	CBL-10	12.30	345	0.99	0.02923	1.8	0.2222	6.5	0.0551	6.2	0.01137	3.9	184.6	3.4	178.6	4.0	82.5	45.0	0.0	0.0	216	3.93	2.78					
U95574	CBL-11	8.59	263	0.42	0.03151	1.6	0.2308	6.8	0.0531	6.7	0.01106	4.4	199.2	3.2	198.6	3.2	189.5	18.2	78.1	7.8	105	0.68	1.49					
U95574	CBL-12	11.09	303	0.43	0.03485	1.6	0.2684	5.8	0.0559	5.6	0.01400	4.5	219.4	3.5	217.1	3.6	182.1	24.1	0.4	0.0	119	1.72	1.87					
U95574	CBL-13	31.55	1031	0.48	0.02876	1.3	0.2094	4.1	0.0528	3.9	0.01170	2.8	182.1	2.4	178.7	2.5	124.7	16.5	0.1	0.0	143	2.28	2.89					
U95574	CBL-14	26.84	467	0.41	0.05614	1.4	0.4391	4.3	0.0567	4.0	0.01692	3.4	350.8	4.9	353.3	5.0	386.9	19.4	593.0	26.3	91	-0.36	3.45					
U95574	CBL-15	14.56	371	0.23	0.03964	1.2	0.2982	3.7	0.0546	3.6	0.01758	3.2	249.6	2.9	247.0	2.9	208.7	15.1	0.5	0.0	118	1.47	1.83					
U95574	CBL-16	30.36	1064	0.83	0.02509	1.0	0.1747	3.7	0.0505	3.6	0.00753	2.8	159.5	1.7	161.2	1.9	187.4	16.5	530.8	39.4	86	-0.93	2.75					
U95574	CBL-17	8.78	157	1.28	0.04442	2.1	0.3381	13.1	0.0552	12.9	0.01301	4.2	279.1	6.1	285.3	7.0	368.9	60.6	934.4	118.8	77	-1.86	0.88					
U95574	CBL-18	72.97	793	0.01	0.10009	1.1	0.9835	3.8	0.0713	3.6	0.02580	10.0	607.1	6.8	615.1	6.7	697.3	19.1	972.0	22.6	88	-0.03	2.54					
U95574	CBL-19	8.81	215	0.96	0.03466	1.8	0.2738	6.2	0.0573	5.9	0.01138	3.7	217.9	4.0	217.7	4.9	214.8	46.6	184.5	40.5	101	0.92	1.84					
U95574	CBL-20	13.86	157	0.11	0.09300	1.1	0.7590	4.7	0.0592	4.5	0.03030	6.7	573.2	6.5	572.1	6.3	559.6	22.1	509.4	20.1	102	0.21	1.25					
U95574	CBL-21	18.33	343	0.03	0.05788	1.8	0.4688	5.7	0.0587	5.4	0.03552	10.4	360.6	6.3	361.8	6.2	376.8	19.1	470.4	21.9	96	0.28	3.79					
U95574	CBL-22	17.19	517	0.47	0.03100	1.1	0.3048	6.4	0.0713	6.3	0.01493	5.2	191.8	2.3	188.7	2.6	140.6	32.0	0.1	0.0	134	4.21	1.03					
U95574	CBL-23	45.37	991	0.12	0.04698	1.5	0.4297	3.9	0.0663	3.6	0.03998	4.2	291.0	4.3	287.6	4.2	238.4	14.7	0.5	0.0	121	2.91	3.68					
U95574	CBL-24	17.02	361	0.25	0.04663	2.0	0.4138	4.8	0.0644	4.3	0.02646	3.7	289.5	5.7	284.7	5.6	215.3	24.0	0.2	0.0	132	3.15	3.35					
U95574	CBL-25	50.66	550	0.09	0.09761	1.4	0.7780	4.1	0.0578	3.9	0.02853	6.1	601.9	8.2	601.1	8.1	592.5	20.3	560.1	18.5	101	-0.12	4.16					
U95574	CBL-26	38.60	800	0.10	0.05010	1.3	0.4559	4.4	0.0660	4.2	0.04336	4.4	310.1	4.1	307.3	4.0	268.2	17.2	1.9	0.1	115	2.54	1.82					
U95574	CBL-27	83.98	874	0.26	0.09739	1.4	0.8977	3.7	0.0669	3.4	0.02937	4.6	594.2	8.2	600.5	8.2	666.5	21.7	896.5	25.1	90	-0.25	10.78					
U95574	CBL-28	39.19	1009	0.08	0.04133	1.7	0.3058	4.7	0.0537	4.3	0.02061	4.9	260.4	4.4	259.2	4.3	241.3	12.0	72.5	3.7	107	0.75	5.76					
U95574	CBL-29	11.65	247	1.03	0.03916	1.3	0.2935	6.1	0.0544	5.9	0.01270	2.7	246.7	3.3	246.3	3.5	241.3	27.6	193.1	22.5	102	0.54	1.65					
U95574	CBL-30	20.00	344	0.45	0.04452	1.4	0.3429	5.2	0.0559	5.0	0.01360	3.7	279.5	3.9	281.6	3.9	311.6	18.8	542.5	28.8	90	-0.30	2.80					
U95574	CBL-31	17.50	256	0.19	0.07020	1.6	0.5784	5.8	0.0598	5.7	0.02512	6.4	435.2	6.8	435.9	6.6	444.6	24.8	489.4	26.1	98	0.34	2.16					
U95574	CBL-32	5.47	120	0.56	0.04623	2.0	0.3005	8.3	0.0511	8.0	0.01393	5.3	269.3	5.4	268.4	5.5	255.2	32.7	136.9	18.3	105	0.29	1.44					
U95574	CBL-33	51.75	585	0.07	0.09409	1.9	0.8439	3.7	0.0681	3.6	0.03993	6.8	573.7	5.6	578.0	5.0	642.4	19.9	795.5	23.0	95	0.30	0.73					
U95574	CBL-34	28.16	456	0.05	0.04121	1.6	0.3000	6.4	0.0530	6.2	0.02737	5.4	259.9	4.1	259.9	4.2	256.9	24.3	257.7	23.8	100	0.19	2.66					
U95574	CBL-35	75.01	751	0.01	0.04131	2.2	0.2112	7.7	0.0531	7.4	0.01452	7.9	125.5	4.1	177.6	4.2	100.2	0.0	0.0	0.0	177	3.12	2.15					
U95574	CBL-36	17.15	899	0.10	0.01975	1.4	0.1565	5.6	0.0575	5.4	0.01727	5.0	124.7	1.8	122.8	1.7	92.0	9.1	0.1	0.0	133	2.62	124.7	3.1	4.1			
U95574	CBL-37	7.37	371	0.03	0.02003	2.4	0.1759	10.9	0.0543	10.6	0.0091	3.4	124.2	3.2	123.8	3.0	110.3	20.1	16.3	2.0	105	2.31	1.84	124.2	4.1			
U95574	CBL-38	11.29	186	0.54	0.05552	2.0	0.4641	8.7	0.0606	8.5	0.02468	4.2	345.4	6.9	336.0	6.8	201.7	49.5	0.0	0.0	167	3.63	1.72					
U95574	CBL-39	115.21	363	0.42	0.02899	1.2	0.2046	3.0	0.0512	2.8	0.00945	2.9	183.9	2.2	184.1	2.2	187.1	9.5	225.0	11.0	98	0.06	9.58					
U95574	CBL-40	76.73	493	0.31	0.14806	3.2	0.20560	11.4	0.1007	10.9	0.09302	8.7	85.6	27.9	852.0	28.0	804.1	154.1	663.4	134.4	106	4.57	14.76					
U95574	CBL-41	47.38	553	0.48	0.08192	1.2	0.66631	3.6	0.0587	3.3	0.02453	3.6	506.8	6.1	510.0	6.3	546.9	24.8	703.7	29.1	93	-0.50	5.31					
U95574	CBL-42	9.35	293	0.33	0.03073	2.0	0.2764	8.4	0.0652	8.1	0.01674	6.8	191.5	3.9	188.6	3.8	143.2	26.8	0.1	0.0	132	3.39	1.73					

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U ratio	±% 1se	uncorr'd 207Pb/235U ratio	±% 1se	uncorr'd 207Pb/206Pb ratio	±% 1se	uncorr'd 208Pb/232Th ratio	±% 1se	207Pb/204Pb ratio	±% 1se	absolute error (Ma)	208Pb/234U ratio	±% 1se	absolute error (Ma)	208Pb/238U ratio	±% 1se	absolute error (Ma)	selected 207Pb conc'd	±1se	% common concordance	206Pb using 208Pb	selected 207Pb conc'd	±1se	% common concordance	206Pb using 208Pb	
U85574	CBL-43	8.77	312	0.89	0.02410	1.6	0.1839	7.9	0.0554	7.8	0.00803	4.5	152.4	2.5	153.1	2.9	165.3	27.9	342.8	53.0	93	0.25	1.33							
U85574	CBL-44	6.78	163	0.75	0.03687	1.9	0.2946	9.2	0.0580	9.0	0.01251	5.1	231.4	4.8	230.6	4.8	223.8	37.7	100	0.90	1.40									
U85574	CBL-45	33.08	696	1.55	0.03523	1.3	0.2529	4.7	0.0521	4.5	0.01122	2.6	222.8	3.0	222.7	4.1	220.9	44.3	202.9	40.9	101	0.23	4.15							
U85574	CBL-46	45.42	1126	0.09	0.04417	1.0	0.3433	3.9	0.0564	3.8	0.01899	6.9	277.1	2.9	278.5	2.8	297.4	10.2	448.8	13.9	94	0.06	3.97							
U85574	CBL-47	17.32	590	0.30	0.02888	1.5	0.2253	5.8	0.0566	5.6	0.01335	3.7	182.0	2.8	179.5	2.8	140.7	14.9	0.2	0.0	128	2.22	1.84							
U85574	CBL-48	27.94	395	0.22	0.01716	2.2	0.6702	5.3	0.0677	4.8	0.02982	5.2	440.5	9.4	442.2	9.3	463.5	25.8	569.0	28.7	95	1.05	5.42							
U85574	CBL-49	29.52	1230	0.09	0.02528	1.5	0.2096	4.9	0.0601	4.7	0.01664	6.8	158.8	2.4	158.5	2.4	153.5	10.1	79.2	5.3	103	1.54	3.77							
U85574	CBL-50	13.55	401	0.40	0.02777	1.6	0.2726	7.3	0.0503	7.1	0.01224	4.1	205.3	3.4	205.6	3.4	208.7	20.4	232.3	23.2	98	1.13	1.30							
U85574	CBL-51	18.92	357	0.87	0.04141	0.8	0.2969	2.3	0.0525	2.2	0.01221	1.3	252.2	2.0	264.0	2.1	302.2	10.7	608.4	18.4	87	-0.04	2.80							
U85574	CBL-52	19.91	869	0.14	0.03653	1.1	0.2338	4.7	0.0557	4.5	0.01890	4.4	167.9	1.8	164.3	1.8	145	0.1	145	2.70	0.98									
U85574	CBL-53	35.08	869	0.80	0.03548	1.1	0.2813	2.0	0.0571	1.5	0.01167	1.3	223.4	2.4	233.3	9.3	312.1	11.8	97	0.60	5.98									
U85574	CBL-54	32.18	741	1.06	0.03699	1.0	0.2675	2.6	0.0538	2.4	0.01065	1.1	227.7	2.3	229.0	2.7	256.8	19.9	513.8	35.0	89	-0.47	4.68							
U85574	CBL-55	14.88	967	0.08	0.01623	2.5	0.1206	5.8	0.0539	5.2	0.01131	6.0	103.0	2.6	102.3	2.6	89.6	7.4	0.4	0.0	114	1.47	7.38							
U85574	CBL-56	15.40	551	0.63	0.02577	1.7	0.1769	3.5	0.0498	3.1	0.00796	1.6	164.0	2.7	164.4	2.8	171.3	10.4	267.2	14.9	96	0.22	6.56							
U85574	CBL-57	85.74	1231	0.01	0.07595	0.8	0.6019	1.5	0.0575	1.2	0.02687	7.8	471.4	3.8	477.6	5.7	504.8	4.9	99	0.02	7.56									
U85574	CBL-58	19.12	928	0.13	0.02147	4.7	0.2303	6.5	0.0578	4.5	0.01429	5.3	132.1	6.1	134.1	6.2	164.4	12.2	627.0	30.6	82	2.13	11.96							
U85574	CBL-59	11.15	1011	0.17	0.1646	1.0	1.1351	2.1	0.0707	1.5	0.04037	1.6	703.9	6.8	746.9	16.0	865.7	16.6	95	0.33	6.99									
U85574	CBL-60	54.81	292	0.66	0.01598	1.3	1.7377	2.2	0.0742	1.8	0.00994	1.3	1009.8	11.8	1013.8	12.0	1044.3	23.0	1108.5	22.2	97	-0.27	7.18							
U85574	CBL-61	11.84	655	0.05	0.01941	1.1	0.1470	5.4	0.0549	5.3	0.01427	5.7	123.0	1.4	122.6	1.4	117.4	7.7	18.7	1.3	104	1.05	1.49	123.0	2.8					
U85574	CBL-62	37.89	1065	0.51	0.03391	1.3	0.2356	2.5	0.0504	2.2	0.01020	3.1	215.0	2.7	215.9	2.7	229.0	9.1	365.4	13.0	94	-0.43	5.39							
U85574	CBL-63	19.79	707	0.23	0.02800	1.0	0.1846	6.2	0.0548	6.1	0.01453	4.3	178.4	1.9	174.1	2.1	105.9	20.9	0.1	0.0	165	2.23	0.69							
U85574	CBL-64	33.64	454	1.34	0.05790	1.3	0.4111	3.5	0.0515	3.2	0.01704	2.3	363.9	4.8	368.0	8.4	421.0	86.5	722.4	129.2	87	-1.46	3.94							
U85574	CBL-65	12.26	549	0.02	0.02374	3.0	0.2175	13.8	0.0665	13.5	0.07144	29.0	148.1	4.7	148.5	4.4	280.7	28.0	155.6	28.9	100	2.12	3.38							
U85574	CBL-66	33.21	579	0.06	0.06108	1.3	0.5663	2.3	0.0672	1.9	0.01040	3.6	376.3	4.9	378.3	4.9	404.1	9.6	554.5	10.9	94	1.04	5.15							
U85574	CBL-67	22.44	674	0.25	0.03370	0.8	0.2557	2.2	0.0550	2.0	0.01296	2.5	212.5	1.8	211.9	1.8	203.0	7.0	102.2	3.6	104	0.85	2.98							
U85574	CBL-68	12.69	854	0.02	0.01618	2.0	0.2116	7.1	0.0505	6.8	0.01735	12.1	103.1	2.1	102.9	2.1	98.2	7.7	6.1	0.5	105	0.57	3.05							
U85574	CBL-69	15.17	417	0.99	0.03068	1.1	0.2230	3.4	0.0527	3.2	0.01017	1.6	194.1	2.1	193.1	2.2	177.7	14.4	4.3	0.4	109	0.86	2.72							
U85575	NBL-01	8.30	206	1.05	0.03249	1.6	0.2874	5.7	0.0641	5.4	0.01282	4.2	202.7	3.3	197.5	4.2	116.7	49.6	0.1	0.0	169	4.25	1.80	202.7	4.8					
U85575	NBL-02	21.79	528	0.62	0.03648	1.8	0.1732	8.6	0.0742	8.4	0.01806	8.1	214.5	4.4	218.5	6.1	125.1	84.1	0.0	0.0	175	5.53	3.60							
U85575	NBL-03	2.89	61	1.10	0.03799	2.5	0.2049	10.4	0.0769	10.1	0.01475	5.0	232.9	6.8	185.6	69.3	0.3	0.1	124	4.43	1.28									
U85575	NBL-04	11.90	263	0.51	0.04221	2.3	0.3686	6.0	0.0633	5.5	0.01675	6.3	262.7	6.0	261.4	6.1	242.9	30.2	68.6	9.1	108	1.93	2.71							
U85575	NBL-05	12.86	289	0.35	0.04343	1.8	0.4218	6.3	0.0704	6.0	0.01850	4.3	267.9	4.8	289.7	27.0	457.1	38.9	93	1.75	3.28									
U85575	NBL-06	79.42	810	0.06	0.01421	1.9	0.0901	4.7	0.0633	4.3	0.04674	5.0	637.3	11.7	636.7	11.6	629.6	24.3	604.5	21.9	101	0.39	26.22							
U85575	NBL-07	11.77	230	0.76	0.04544	1.7	0.3710	6.6	0.0592	6.3	0.01452	5.5	284.0	4.9	286.7	5.7	323.0	46.4	593.8	74.8	89	-0.06	2.67							
U85575	NBL-08	17.35	384	0.24	0.04554	2.1	0.3633	5.3	0.0579	4.8	0.01909	5.9	285.1	5.9	287.3	5.9	264.6	20.4	99.8	8.1	107	1.19	4.07							
U85575	NBL-09	22.61	260	0.43	0.05883	1.3	0.6570	5.1	0.0568	4.9	0.02584	2.9	519.6	6.7	517.5	27.8	509.3	26.9	100	-0.08	2.61									
U85575	NBL-10	61.52	863	0.15	0.07381	2.1	0.6766	3.6	0.0665	2.9	0.02152	4.9	453.5	9.3	460.4	9.4	541.0	18.7	896.7	23.3	85	-0.30	27.30							
U85575	NBL-11	17.88	434	0.72	0.05650	1.3	0.2914	4.7	0.0777	4.5	0.01305	3.6	228.8	2.9	224.8	2.4	245.4	7.7	107	1.27	2.80									
U85575	NBL-12	11.41	313	0.78	0.03036	1.7	0.2915	5.9	0.0594	5.6	0.07050	4.0	165.6	3.4	163.1	3.1	151.3	3.0	109	2.49	1.88	199.6	4.6							
U85575	NBL-13	79.05	103	0.06	0.09419	1.8	0.2187	5.8	0.0539	5.6	0.01733	3.9	210.4	2.4	208.6	2.7	205.3	2.7	170.9	18.8	0.3	0.0	121	1.54	1.90	208.6	4.5			
U85575	NBL-14	16.54	471	0.49	0.03093	1.3	0.2444	5.1	0.0537	4.9	0.01244	3.2	208.6	2.7	205.3	2.7	194.7	22.3	106.0	36.2	31.1	0.09	3.96							
U85575	NBL-15	23.58	101	0.58	0.06951	1.1	0.1849	2.8	0.0766	2.6	0.01533	3.0	1035.3	11.2	1038.2	11.7	1106.0	36.2	1105.1	36.1	98	0.02	7.32							
U85575	NBL-16	14.20	115	0.16	0.12536	3.4	0.2174	10.3	0.0704	9.7	0.06488	16.6	756.2	24.7	751.0	24.2														

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U ratio	±% 1se	uncorr'd 207Pb/235U ratio	±% 1se	uncorr'd 207Pb/206Pb ratio	±% 1se	uncorr'd 208Pb/232Th ratio	±% 1se	207Pb cor'd absolute age (Ma)	±% 1se	208Pb cor'd absolute age (Ma)	±% 1se	208Pb cor'd absolute age (Ma)	±% 1se	208Pb cor'd absolute age (Ma)	±% 1se	selected 207Pb concordance %	206Pb using 208Pb	spot MSWD	selected 207Pb cor'd absolute age (Ma)	206Pb/238U age (Ma)	±% 1se		
O85576	JCK-29	10.43	197	1.25	0.04209	1.6	0.3416	5.5	0.0589	5.3	0.01364	3.6	263.5	4.2	262.6	5.2	250.7	48.0	140.9	28.3	105	1.21	1.96					
O85576	JCK-30	49.37	280	0.38	0.17038	1.1	1.7994	3.2	0.0766	3.0	0.05223	3.1	1010.1	10.4	1014.2	10.3	1044.7	27.4	97	0.01	4.56							
O85576	JCK-31	12.02	282	0.44	0.04064	1.3	0.3285	5.1	0.0586	4.9	0.01577	3.6	254.6	3.4	252.6	3.4	224.1	19.7	1.7	0.2	113	1.67	1.92					
O85576	JCK-32	14.16	399	0.11	0.03763	1.4	0.2981	4.9	0.0575	4.7	0.01426	5.3	236.2	3.4	237.5	3.4	254.8	12.2	417.7	17.8	93	0.28	2.71					
O85576	JCK-33	26.87	300	0.74	0.07943	1.3	0.7204	4.7	0.0568	4.5	0.02749	3.2	487.7	6.4	486.1	6.9	466.6	44.0	372.5	36.4	104	1.41	3.40					
O85576	JCK-34	32.23	766	1.72	0.08026	1.2	0.2109	4.1	0.0505	3.9	0.09934	2.5	192.1	2.3	193.7	3.3	217.4	35.3	482.9	69.1	89	-0.77	3.23					
O85576	JCK-35	4.95	109	0.58	0.03794	2.0	0.3572	8.1	0.0683	7.8	0.01625	4.7	235.0	4.8	231.1	4.9	172.3	39.8	0.1	0.0	134	3.78	1.49					
O85576	JCK-36	43.17	539	0.62	0.0367	0.9	0.6365	3.4	0.0538	3.3	0.02793	2.2	464.3	4.1	440.8	4.4	371.7	30.7	28.0	0.3	119	2.20	2.85					
O85576	JCK-37	7.21	164	0.81	0.05875	1.6	0.2883	7.1	0.0531	6.9	0.02023	3.4	295.5	4.0	245.7	4.1	263.8	27.3	427.1	40.5	93	-0.27	1.49					
O85576	JCK-38	14.29	104	0.84	0.03913	1.3	0.3314	5.4	0.0594	5.0	0.02039	3.4	513.7	6.7	515.5	7.1	375.5	43.8	34.9	105	1.25	1.28						
O85576	JCK-39	10.85	250	0.68	0.0391	1.6	0.3324	5.4	0.0520	5.2	0.01441	2.9	529.4	4.0	241.0	4.1	213.2	25.2	1.3	0.2	113	2.11	1.76					
O85576	JCK-40	35.92	1007	0.93	0.02997	1.0	0.2375	3.8	0.0575	3.7	0.01094	2.6	188.6	1.9	186.1	2.2	147.1	21.4	0.2	0.0	127	2.27	2.62					
O85576	JCK-41	24.33	313	0.37	0.07522	1.6	0.6961	5.4	0.0671	5.2	0.03159	4.2	461.6	7.2	458.6	7.0	421.6	31.4	224.5	18.1	109	1.97	1.98					
O85576	JCK-42	103.79	727	0.07	0.15121	1.6	1.6433	5.1	0.0788	4.8	0.05741	5.8	898.0	13.8	905.8	13.4	969.5	33.1	1116.9	34.3	93	0.24	8.16					
O85576	JCK-43	14.41	366	0.61	0.03626	1.4	0.2785	5.0	0.057	4.8	0.01204	3.0	228.2	3.2	228.2	3.3	228.3	20.5	229.7	20.4	100	0.61	1.99					
O85576	JCK-44	4.25	92	1.02	0.05843	2.9	0.3806	11.1	0.0718	10.7	0.01354	5.8	237.0	7.0	238.0	7.3	253.0	54.0	394.3	78.2	94	2.11	1.15					
O85576	JCK-45	23.91	291	0.18	0.08341	1.5	0.8158	5.1	0.0709	4.4	0.04673	4.4	508.4	7.6	505.6	7.3	472.6	29.4	315.6	20.7	107	2.18	2.36					
O85576	JCK-46	21.86	237	0.71	0.08320	1.8	0.7010	6.3	0.0611	6.0	0.02611	4.0	513.1	9.3	513.9	9.9	523.1	53.5	563.4	55.9	98	0.26	2.95					
O85576	JCK-47	7.41	168	0.54	0.04113	2.1	0.3731	7.2	0.0658	6.9	0.01511	4.3	255.3	5.4	261.5	28.4	314.1	32.8	98	1.60	1.98							
O85576	JCK-48	14.05	322	0.73	0.03911	1.5	0.2577	6.6	0.0478	6.4	0.01228	3.6	248.3	3.7	247.0	3.9	227.7	27.3	35.7	4.7	108	0.13	2.07					
O85576	JCK-49	12.23	260	0.95	0.03993	1.5	0.3028	4.9	0.0550	4.7	0.01243	3.2	251.3	3.9	253.3	4.2	282.6	26.5	531.9	43.9	90	-0.38	1.96					
O85576	JCK-50	8.28	196	0.69	0.03822	1.5	0.2897	6.7	0.0550	6.5	0.0187	3.4	240.6	3.7	242.3	3.7	266.9	22.3	488.0	36.3	91	-0.24	1.27					
O85576	JCK-51	6.97	154	0.51	0.04291	1.5	0.3563	11.6	0.0602	11.5	0.01376	2.8	268.1	4.5	270.7	4.4	306.3	40.3	587.1	67.5	88	0.08	2.44					
O85576	JCK-52	24.67	584	1.29	0.03313	0.8	0.2427	2.1	0.0531	1.9	0.01057	1.3	209.6	2.4	212.8	2.6	247.7	29.5	99	0.24	1.84							
O85576	JCK-53	12.13	300	1.69	0.03040	0.7	0.2057	2.4	0.0491	2.3	0.00943	0.8	193.3	1.4	194.2	1.8	207.7	18.2	363.7	29.4	93	-0.58	1.59					
O85576	JCK-54	7.2	648	0.25	0.02945	1.5	0.2430	8.0	0.0598	7.9	0.01244	5.4	184.9	3.0	184.7	2.9	182.6	18.4	156.3	15.8	101	0.29	1.03					
O85576	JCK-55	5.90	167	0.44	0.03376	1.3	0.2663	4.2	0.0572	4.0	0.01324	2.3	212.0	2.7	179.4	14.1	0.5	0.0	117	1.80	1.48							
O85576	JCK-56	30.7	367	0.16	0.08564	1.0	0.1684	1.7	0.0583	1.4	0.02322	1.8	529.5	5.0	531.1	5.0	549.6	7.6	626.5	7.1	97	-0.28	5.98					
O85576	JCK-57	28.9	729	0.61	0.03662	0.7	0.2581	1.7	0.0511	1.5	0.01155	1.7	231.8	1.6	231.8	1.7	232.8	6.8	242.7	6.9	100	0.21	2.97					
O85576	JCK-58	26.76	739	0.36	0.03557	1.1	0.2847	4.1	0.0580	3.9	0.01326	1.8	223.3	2.6	223.0	2.5	218.6	10.7	172.6	8.4	102	1.04	2.07					
O85576	JCK-59	6.67	147	1.45	0.03256	1.0	0.20282	1.0	0.0609	3.4	0.01093	2.2	227.1	2.3	228.4	2.3	246.9	10.1	426.7	15.6	92	-0.35	1.68					
O85576	JCK-60	12.48	102	0.41	0.03219	1.3	0.2261	4.0	0.0514	3.0	0.01202	1.9	202.2	2.5	202.2	2.5	202.1	10.4	201.1	10.1	100	0.15	2.00					
O85576	MTC_01	22.55	348	0.34	0.06379	0.7	0.5362	2.3	0.0610	2.1	0.02344	1.6	395.7	2.8	395.1	2.8	387.5	10.0	342.5	8.8	102	0.92	2.02					
O85576	MTC_02	19.40	488	0.14	0.04188	1.0	0.3064	2.8	0.0531	2.6	0.01344	3.0	264.0	2.5	269.0	8.2	309.3	8.9	98	0.06	4.09							
O85576	MTC_04	21.90	585	0.15	0.03815	1.8	0.4709	7.1	0.0895	6.8	0.03277	10.9	230.1	4.5	231.9	4.5	256.5	35.3	488.4	60.0	90	4.00	3.51					
O85576	MTC_05	14.07	165	0.53	0.03903	0.8	0.6881	2.5	0.0588	2.3	0.02605	1.8	524.9	4.0	537.2	14.8	585.5	15.4	98	-0.08	1.78							
O85576	MTC_06	5.65	1934	0.43	0.03830	0.7	0.2383	1.0	0.0510	0.8	0.01240	2.7	207.9	2.3	207.9	2.3	207.4	15.0	357.4	25.8	93	0.90	1.62					
O85576	MTC_08	11.42	85	0.10	0.02983	1.2	0.4212	8.5	0.1338	8.4	0.04560	11.4	130.5	2.6	130.5	2.6	141.8	0.3	120	11.35	2.08	130.5	3.6					
O85576	MTC_09	0.40	94	0.67	0.0397	1.4	0.2347	4.0	0.0545	3.0	0.02329	1.7	249.2	3.6	249.5	3.6	258.9	15.7	431.4	22.8	93	-0.42	2.19					
O85576	MTC_10	27.26	1254	0.01	0.02368	1.2	0.1590	4.4	0.0497	4.2	0.02602	13.4	151.0	1.9	150.1	1.9	137.3	6.5	1.4	0.1	109	0.50	1.60					
O85576	MTC_10	62.40	119	0.01	0.06078	1.0	0.5532	2.0	0.0560	1.8	0.01532	6.1	375.1	3.5	378.0	3.5	428.4	7.5	703.4	9.8	88	0.38	4.09					
O85576	MTC_11	20.99	784	0.03	0.03886	1.2	0.2367	4.3	0.0595	4.1	0.01286	4.0	231.3	2.3	231.8	2.2	238.0	8.8	204.8	9.5	99	1.14	3.17					
O85576	MTC_13	34.09	634	0.10	0.05672	1.2	0.4737	2.0	0.0606	1.5	0.02873	5.0	352.7	4.3	352.4	4.3	348.5	9.2	322.9	7.9	101	0.93	2.88					
O85576	MTC_14	15.87	752	0.04	0.02026	1.6	0.2433	9.5	0.0890	9.4	0.03																	

U885578	M19-29	11.92	766	0.45	0.01506	2.0	0.1230	7.5	0.0592	7.2	0.00507	5.7	95.0	2.0	109.3	13.4	413.9	43.5	88	0.52	1.55					
U885578	M19-29	8.83	495	0.52	0.01697	1.3	0.1169	4.3	0.0499	4.2	0.00510	2.7	108.2	1.4	108.9	1.4	120.2	6.3	349.1	16.1	91	-0.44	2.31			
U885578	M19-31	9.14	641	0.35	0.01413	1.6	0.0915	4.8	0.0469	4.5	0.00466	4.3	90.5	1.5	90.2	1.5	84.9	6.1	1.8	0.1	106	0.25	1.77			
U885578	M19-31	8.45	453	0.61	0.01720	1.3	0.1163	4.2	0.0490	4.0	0.00564	1.6	109.8	1.4	109.6	1.4	104.9	6.6	11.1	0.7	104	0.37	2.80			
U885578	M19-32	11.61	744	0.30	0.01578	1.6	0.1105	4.1	0.0508	3.7	0.00481	4.2	100.6	1.6	101.1	1.6	109.4	5.7	295.0	13.6	92	-0.18	3.03			
U885578	M19-33	27.60	1903	0.38	0.01431	1.5	0.1032	4.4	0.0523	4.1	0.00465	3.3	91.4	1.4	91.5	1.4	97.9	6.0	256.9	14.3	93	0.11	3.28			
U885578	M19-34	4.47	271	0.45	0.01905	1.0	0.1078	4.3	0.0540	4.2	0.00411	1.9	101.9	1.1	101.9	1.1	102.1	5.7	106.0	5.8	100	0.10	1.68	101.9	2.0	
U885578	M19-34	8.57	355	0.78	0.01535	1.0	0.1211	3.5	0.0554	3.4	0.00524	1.7	100.5	1.0	100.8	1.0	106.3	7.3	231.7	14.8	95	0.56	2.06	100.5	1.9	
U885578	M19-37	10.57	1463	0.49	0.01549	1.5	0.0538	5.3	0.0538	5.1	0.00538	5.4	94.4	1.5	94.4	1.5	107.8	6.8	304.4	9.0	105	0.76	3.42			
U885578	M19-37	26.52	1536	0.39	0.01695	1.0	0.1105	2.8	0.0473	2.6	0.00521	1.8	108.5	1.0	108.6	1.0	110.0	3.7	139.5	4.5	99	-0.19	2.75	108.5	2.1	
U885578	M19-38	18.68	1150	0.32	0.01622	1.3	0.1115	3.7	0.0498	3.5	0.00561	2.9	103.5	1.4	103.3	1.4	99.2	4.8	125	0.6	104	0.46	3.22	103.5	2.2	
U885578	M19-39	11.15	586	0.53	0.01773	2.0	0.1229	10.1	0.0502	9.9	0.00634	7.5	113.2	2.4	112.7	2.6	105.1	23.4	1.8	0.4	107	0.65	2.75			
U885578	M19-40	48.35	2593	1.00	0.01563	0.4	0.1034	2.8	0.0480	2.8	0.00496	1.5	100.0	0.5	100.0	0.8	99.9	10.4	99.0	10.3	100	0.00	0.97			
U885578	M19-40	41.23	2194	0.66	0.01716	1.0	0.1312	3.4	0.0555	3.2	0.00559	1.7	108.7	1.1	108.4	1.2	120.0	9.6	335.5	24.0	91	0.28	3.57			
U885578	M19-41	16.93	810	0.40	0.02045	0.8	0.1288	2.5	0.0457	2.3	0.00661	3.9	131.0	1.0	130.4	1.0	120.2	6.5	1.4	0.1	108	0.13	0.70			
U885578	M19-42	7.61	411	0.61	0.01686	1.5	0.1462	7.6	0.0629	10.5	0.00574	1.7	104.7	2.4	86.1	31.0	0.2	0.1	122	2.87	1.55	1.55	105.9	2.4		
U885578	M19-43	34.72	2121	0.37	0.01584	1.2	0.1484	8.5	0.0679	8.4	0.00731	8.1	98.9	1.4	98.6	1.3	95.0	15.7	14.1	2.4	104	2.67	2.93			
U885578	M19-44	6.60	387	0.51	0.01617	1.3	0.1180	6.7	0.0529	6.5	0.00545	4.2	102.8	1.4	102.8	1.4	103.7	10.0	124.1	11.7	99	0.54	1.05	102.8	2.2	
U885578	M19-44	6.84	395	0.46	0.01669	1.2	0.1277	4.7	0.0511	4.5	0.00533	2.8	106.3	1.3	106.6	1.3	111.7	6.6	220	12.2	95	0.07	1.57	106.3	2.2	
U885578	M19-45	7.41	449	0.46	0.01572	1.5	0.1242	4.9	0.0573	4.7	0.00596	4.5	99.4	1.5	99.1	1.5	93.7	8.7	2.7	0.3	106	1.47	1.49			
U885578	M19-45	5.14	286	0.48	0.01720	0.9	0.1178	4.8	0.0497	4.7	0.00574	2.9	109.8	1.1	109.5	1.1	105.4	6.8	18.9	1.3	104	0.41	1.05			
U885578	M19-46	6.53	375	0.55	0.01632	1.0	0.1081	3.2	0.0480	3.1	0.00533	1.6	104.4	1.1	104.1	1.1	99.1	5.0	5.1	0.3	105	0.28	2.60	104.4	2.0	
U885578	M19-47	4.67	246	0.77	0.01698	1.5	0.1197	6.2	0.0511	6.0	0.00516	2.9	108.1	1.6	109.0	1.7	123.5	9.7	411.4	27.7	88	-0.48	1.54			
U885578	M19-48	6.92	390	0.68	0.01611	1.5	0.1208	4.2	0.0544	3.9	0.00529	3.6	102.3	1.5	102.5	1.7	106.3	11.7	191.8	20.1	96	0.54	2.43	102.3	2.3	
U885578	M19-48	4.43	242	0.37	0.01751	1.8	0.1789	7.4	0.0741	7.2	0.00931	5.3	108.4	2.0	107.7	2.1	97.5	18.6	0.7	0.1	110	3.74	1.79	108.4	2.7	
U885578	M19-49	34.28	1885	0.48	0.01713	1.2	0.1584	13.5	0.0671	13.4	0.00727	9.9	107.0	1.7	106.6	1.7	99.5	28.3	1.6	0.5	107	2.72	2.73	107.0	2.5	
U885578	M19-50	10.43	591	0.53	0.01675	0.7	0.1166	2.4	0.0505	2.3	0.00515	1.6	106.8	0.7	107.3	0.8	116.4	5.3	305.6	12.5	92	-0.24	1.67			

sample number	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd ratio	206Pb*/238U	±% 1se	207Pb*/235U	internal error	207Pb*/206Pb*	±% 1se	208Pb*/232Th	internal error	208Pb*/206Pb*	±% 1se	207Pb*/238U	internal error	207Pb*/206Pb*	±% 1se	208Pb*/238U	internal error	208Pb*/206Pb*	±% 1se	207Pb*/235U	internal error	207Pb*/206Pb*	±% 1se	208Pb*/238U	internal error	selected 207Pb	±% 1se absolute external error		
P76013	ARR-01	17.48	158	0.34	0.01084	1.2	0.9143	4.2	0.0612	4.0	0.03661	3.5	663.4	8.0	660.9	7.9	634.7	26.7	542.3	23.1	104	0.34	2.81										
P76013	ARR-02	16.73	384	0.78	0.01827	1.4	0.2917	4.3	0.0553	4.1	0.01316	3.5	240.9	3.4	239.0	3.7	211.5	29.7	1.3	0.2	113	1.31	3.08										
P76013	ARR-03	13.02	283	1.02	0.01813	1.4	0.2759	4.7	0.0525	4.5	0.01269	3.6	240.8	3.3	239.2	4.0	214.3	38.3	2.2	0.4	112	0.89	2.25										
P76013	ARR-04	44.75	2334	0.73	0.01719	0.8	0.1182	2.7	0.0499	2.6	0.00556	1.9	109.6	0.9	109.7	1.0	110.1	8.0	119.3	8.5	100	0.18	2.85	109.6	2.1								
P76013	ARR-05	12.82	632	0.75	0.01786	1.2	0.1370	5.1	0.0556	5.0	0.00639	2.9	113.1	1.4	112.5	1.5	103.8	12.9	1.1	0.1	109	1.41	1.82	113.1	2.4								
P76013	ARR-06	4.33	212	0.59	0.01856	2.0	0.1925	8.8	0.0752	8.6	0.00844	6.7	124.7	2.4	119.4	2.4	102.3	25.9	0.6	0.2	111	3.91	2.32	114.7	3.1								
P76013	ARR-07	9.30	677	0.09	0.01752	1.1	0.1377	5.2	0.0507	5.0	0.00220	2.8	233.4	3.2	229.9	4.0	176.5	41.6	0.2	0.0	130	1.53	2.43										
P76013	ARR-08	19.04	349	0.45	0.01836	1.5	0.1463	5.0	0.0530	5.0	0.00933	3.1	181.5	2.7	181.1	3.0	176.3	25.3	0.5	0.05	103	0.57	2.83										
P76013	ARR-27	16.21	173	0.79	0.01821	1.2	0.6837	4.4	0.0603	4.2	0.02600	3.3	507.6	6.1	509.1	6.6	526.7	37.7	603.5	41.3	97	0.04	1.93										
P76013	ARR-28	19.24	286	1.10	0.01549	1.3	0.5807	3.9	0.0767	3.7	0.01944	3.0	334.9	4.3	336.0	5.3	351.1	45.9	452.1	56.1	96	2.52	2.42										
P76013	ARR-29	26.94	602	0.84	0.01821	1.2	0.3749	4.3	0.0712	4.1	0.01506	3.1	235.9	2.9	234.2	3.3	209.4	29.2	1.8	0.3	112	3.18	3.06										
P76013	ARR-30	42.22	1167	0.02	0.01942	1.6	0.2794	5.6	0.0514	5.0	0.01853	10.9	249.2	3.9	249.0	3.8	246.1	12.6	219.6	11.0	101	0.11	5.45										
P76013	ARR-31	16.25	561	1.17	0.02335	1.5	0.1616	5.1	0.0502	4.9	0.00732	3.1	148.6	2.2	149.4	2.6	161.9	22.1	248.9	43.4	92	-0.40	2.39										
P76013	ARR-32	4.54	85</td																														

Table DR2. Compilation of analytical data for zircon standard R33

session	spot number	Pb*(ppm)	U(ppm)	atomic Th/U	uncorr'd 206Pb/238U ratio	$\pm 1\sigma$ internal error	uncorr'd 207Pb/235U ratio	$\pm 1\sigma$ internal error	uncorr'd 207Pb/206Pb ratio	$\pm 1\sigma$ internal error	uncorr'd 208Pb/232Th	$\pm 1\sigma$ internal error	207Pb corr'd 206Pb/238U age (Ma)	$\pm 1\sigma$ absolute error	208Pb corr'd 206Pb/238U age (Ma)	$\pm 1\sigma$ absolute error	208Pb corr'd 207Pb/235U age (Ma)	$\pm 1\sigma$ absolute error	208Pb corr'd 207Pb/206Pb* age (Ma)	$\pm 1\sigma$ absolute error	% 6*/38-7*/35 concordance	% common 206Pb using 208Pb	selected spot MSWD	207Pb corr'd 206Pb/238U age (Ma)	$\pm 1\sigma$ absolute external error
150529	R33-01	30.50	412	0.74	0.06611	0.6	0.5012	1.9	0.0550	1.8	0.02052	1.3	412.7	2.4	412.9	2.5	415.3	12.7	428.5	12.8	99	-0.05	2.18	412.7	5.7
150529	R33-02	8.40	114	0.69	0.06670	1.0	0.5279	3.8	0.0574	3.7	0.02084	2.5	415.1	4.0	415.9	4.1	425.5	21.8	477.3	23.5	98	0.09	1.37	415.1	6.6
150529	R33-03	4.77	63	0.57	0.06992	1.3	0.5795	4.9	0.0601	4.8	0.02388	2.8	433.3	5.5	431.4	5.5	407.7	27.1	275.8	19.3	106	1.00	1.50	433.3	7.7
150529	R33-04	5.56	77	0.57	0.06731	1.1	0.5592	4.3	0.0603	4.2	0.02180	2.5	417.4	4.7	418.1	4.6	427.3	21.0	476.9	22.5	98	0.44	1.30	417.4	7.0
150529	R33-05	10.26	133	0.76	0.06806	0.8	0.5492	3.7	0.0585	3.6	0.02203	2.1	422.8	3.4	422.4	3.4	417.5	20.0	390.5	18.8	101	0.49	1.10	422.8	6.3
150529	R33-06	14.27	191	0.68	0.06781	0.8	0.5200	2.9	0.0556	2.8	0.02064	1.7	422.8	3.4	423.8	3.4	436.7	15.5	505.3	17.1	97	-0.21	1.65	422.8	6.3
150529	R33-07	13.61	177	0.76	0.06829	0.8	0.5239	3.0	0.0556	2.9	0.02111	1.7	425.7	3.2	426.0	3.3	430.5	17.0	454.0	17.5	99	-0.05	1.36	425.7	6.2
150529	R33-08	6.28	84	0.71	0.06690	0.9	0.5163	4.4	0.0560	4.3	0.02229	2.5	417.1	3.7	414.0	3.8	374.7	24.4	139.3	10.1	110	0.86	0.90	417.1	6.4
150529	R33-09	5.40	71	0.66	0.06918	1.2	0.5738	4.8	0.0602	4.7	0.02281	2.4	428.8	5.1	428.0	5.1	417.2	27.8	358.6	24.3	103	0.78	1.32	428.8	7.4
150529	R33-10	6.89	97	0.49	0.06758	1.1	0.4818	4.3	0.0517	4.2	0.02105	2.5	423.3	4.5	421.5	4.4	398.5	18.3	267.4	12.8	106	0.02	1.39	423.3	6.9
150529	R33-11	7.72	101	0.76	0.06851	1.1	0.5480	4.6	0.0580	4.4	0.02105	2.0	425.8	4.8	427.4	4.8	447.1	22.7	549.7	26.2	96	-0.06	1.56	425.8	7.2
150529	R33-12	4.50	64	0.50	0.06739	1.2	0.5176	4.7	0.0557	4.6	0.02032	2.7	420.2	4.8	421.3	4.8	435.8	19.9	513.0	22.1	97	-0.23	1.17	420.2	7.2
150529	R33-13	4.96	71	0.40	0.06761	1.1	0.5240	4.7	0.0562	4.6	0.02233	3.1	421.3	4.7	420.0	4.6	403.9	20.6	312.9	16.4	104	0.43	1.33	421.3	7.1
150529	R33-14	19.48	271	0.61	0.06623	0.7	0.4908	2.6	0.0537	2.5	0.02078	1.4	414.0	2.9	401.2	2.9	333.8	10.5	103	0.08	1.81	414.0	5.9		
150529	R33-15	7.67	113	0.46	0.06518	0.9	0.5289	3.6	0.0588	3.5	0.02064	2.6	405.1	3.7	406.6	3.7	424.6	16.2	523.8	18.7	96	0.12	1.36	405.1	6.3
150529	R33-16	7.20	97	0.72	0.06699	1.1	0.5327	3.9	0.0577	3.7	0.02097	2.0	416.7	4.6	417.4	4.7	425.9	20.3	472.1	21.6	98	0.14	1.60	416.7	7.0
150529	R33-17	14.39	200	0.65	0.06530	0.7	0.5022	3.0	0.0558	2.9	0.02135	1.7	407.4	3.0	405.8	3.0	385.2	14.7	264.2	10.5	105	0.51	1.32	407.4	5.9
160408	R33-01	4.24	47	0.83	0.07766	2.4	1.7109	5.3	0.1598	4.8	0.04424	3.4	423.3	10.6	425.5	11.2	452.4	87.2	591.2	106.3	94	12.14	1.96		
160408	R33-02	17.66	243	0.62	0.06617	1.5	0.5313	4.9	0.0582	4.7	0.02209	3.6	411.5	6.0	413.2	6.5	434.5	38.5	548.8	45.7	95	-0.03	4.27	411.5	9.3
160408	R33-03	19.66	258	0.74	0.06784	1.2	0.5257	3.8	0.0562	3.6	0.02208	3.0	422.7	5.2	420.9	5.7	398.3	35.3	269.7	25.1	106	0.55	2.77	422.7	8.9
160408	R33-04	10.24	138	0.64	0.06737	1.4	0.5294	4.8	0.0570	4.6	0.02238	3.0	419.4	5.9	417.5	6.1	392.9	32.7	251.0	22.0	106	0.69	2.01	419.4	9.3
160408	R33-05	10.24	131	0.69	0.07006	1.3	0.5689	5.4	0.0589	5.3	0.02390	2.8	434.8	5.6	432.9	5.7	409.5	32.4	280.1	23.3	106	0.84	1.61	434.8	9.4
160408	R33-06	9.09	122	0.56	0.06978	1.4	0.5574	4.9	0.0579	4.7	0.02084	3.6	433.6	6.1	436.4	6.2	470.5	27.7	640.4	34.2	93	-0.38	1.63	433.6	9.6
160408	R33-07	11.30	146	0.83	0.06762	1.1	0.5352	4.1	0.0574	4.0	0.02076	2.5	420.7	4.7	422.8	5.1	448.0	31.9	579.5	38.5	94	-0.23	1.37	420.7	8.6
160408	R33-08	12.10	152	0.90	0.06849	1.4	0.5868	5.7	0.0621	5.5	0.02186	3.4	423.6	6.2	426.1	7.1	456.2	52.0	610.8	64.5	93	0.23	2.32	423.6	9.6
160411	R33-01	15.64	194	0.91	0.06919	1.4	0.5740	3.9	0.0602	3.7	0.02154	2.9	428.9	5.8	431.9	6.2	468.8	31.6	653.8	39.9	92	-0.15	3.32	428.9	10.5
160411	R33-03	4.21	58	0.54	0.06756	1.9	0.5992	7.3	0.0643	7.0	0.02383	4.4	416.9	8.1	416.1	8.2	405.3	42.7	345.0	36.9	103	1.32	1.73	416.9	11.8
160411	R33-05	12.62	163	0.76	0.06854	1.3	0.5541	4.8	0.0586	4.6	0.02225	3.2	425.7	5.7	425.9	5.9	428.4	31.0	441.9	31.3	99	0.35	2.07	425.7	10.4
160411	R33-08	24.89	335	0.72	0.06631	1.1	0.5345	3.5	0.0585	3.3	0.02165	2.9	412.2	4.5	412.1	4.7	410.9	25.1	404.0	24.5	100	0.44	2.70	412.2	9.6
160411	R33-10	15.11	190	0.77	0.06949	1.8	0.5893	6.9	0.0615	6.7	0.02425	4.0	430.0	7.7	430.1	8.3	431.5	53.9	438.8	54.2	100	0.71	3.65	430.0	11.7
160411	R33-12	6.24	85	0.70	0.06578	2.0	0.5237	7.3	0.0577	7.1	0.02253	3.8	409.4	8.0	406.7	8.1	371.8	43.0	160.9	20.3	109	1.02	1.91	409.4	11.6
160411	R33-15	6.99	99	0.57	0.06508	1.9	0.6396	6.9	0.0713	6.6	0.02408	5.8	398.6	7.6	399.8	8.1	415.0	53.7	500.7	61.7	96	1.70	2.09		
160907	R33-01	13.59	166	0.73	0.07305	0.7	0.5464	1.5	0.0542	1.3	0.02031	0.9	455.3	3.1	453.8	3.1	433.3	9.3	7/6 not converged	7.3	105	0.16	3.98	455.5	9.3
160907	R33-03	7.60	102	0.71	0.06735	1.0	0.5187	2.9	0.0559	2.7	0.02089	1.3	419.8	4.2	420.2	4.2	425.2	14.3	451.7	14.5	99	-0.02	2.77	419.8	9.1
160907	R33-04	7.68	105	0.70	0.06631	0.8	0.5074	2.6	0.0555	2.5	0.02064	1.5	413.7	3.2	413.8	3.4	415.3	17.4	423.5	17.5	100	0.03	1.63	413.7	8.6
160907	R33-05	18.85	257	0.56	0.06862	1.0	0.5378	2.0	0.0568	1.8	0.02083	1.4	427.1	4.0	428.8	4.1	449.9	11.2	559.0	12.6	95	-0.24	6.82	427.1	9.2
160907	R33-06	9.63	134	0.72	0.06468	0.7	0.4959	2.7	0.0556	2.6	0.02013	1.3	403.7	2.9	404.2	2.9	410.5	13.1	446.2	13.8	98	-0.03	1.69	403.7	8.3
160907	R33-07	11.43	153	0.73	0.06696	1.1	0.4780	2.8	0.0518	2.6	0.02059	1.3	419.5	4.4	418.4	4.4	404.4	14.5	325.3	11.7	103	-0.14	4.79	419.5	9.2
160907	R33-08	9.36	130	0.69	0.06501	1.3	0.4874	3.2	0.0544	2.9	0.02057	1.5	406.2	5.0	405.2	5.0	392.2	15.7	316.7	12.6	103	0.20	8.19	406.2	9.3
160907	R33-10	11.50	146	0.74	0.07011	0.8	0.5222	2.6	0.0540	2.5	0.02160	1.3	437.6	3.2	437.3	3.3	432.7	15.2	408.9	14.3	101	-0.11	1.90	437.6	9.1
160907	R33-15	17.10	220	0.74	0.06923	0.8	0.5172	2.0	0.0542	1.9	0.02136	1.2	432.2	3.2	431.9	3.3	428.5	12.0	410.7	11.3	101	-0.09	3.01	432.2	8.9
160907	R33-16	6.16	86	0.53	0.06710	0.8	0.5203	2.3	0.0562	2.1	0.02160	1.7	41												