UWA SHRIMP DATA LOG

Date	UWA Mount No.	Whose sample?	Operator(s)
19/6/14	04-50 + 04-51	MB	MB

Indicate any change to the following: ~~196~~ 202 ~~203~~ 203 204 bkg 206 207 208 ~~238~~ 232 ~~248~~ 254 ~~254~~ 264 270

Precambrian	Count time (secs):	(2)	(2)	(10)	(10)	(6)	(6)	(5)	(5)	(2)	(2)	(2)
Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	3	2	2		

Steel: Wein volts / nA = ... for O^-; = ... for O_2^-; = ... for NO^-

dead-time = 25 nanosecs expected resolution = >4200 actual resolution = 5459

aperture = 30 microns retardation lens = 10009 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ~~196~~ 203-204 = 1.11 204-bkg = 0.045 204-206 = ~~0~~ 2.00495

~~206~~-207 = 1.007 206-208 = 1.00942

Primary-epoxy = ... nA Primary-~~CZ3~~ FC = 0.23 nA PESABM-CZ3 = ... pA

Raster time (mins): 2 Raster aperture (microns): 65 No. of scans: 7

Comments:

* Note: dutek Scan 3 of analysis 04-506.1-16

Do 2 UNKS + Std → Min. per day: 6 × French, 6 × PD95, 2 × QMa

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO_2	~~196~~ 203 Kcps	206 cps	UO_2 ~~ppm~~ c	^{204}Pb ~~ppb~~ c	ThO_2 ~~206~~ % Kc	Age ±1σ (Ma) 206/~~206~~ 254	207/206	Offsets OK?
	Fr.1-1	11:08	1.2284	2052	6549	8790	1	169	0.1830	0.0651	
	PD95.1-1	11:29	1.1004	1953	288079	101011	18	317	0.6277	0.1051	
	QMa.1-1	11:51	1.2640	2100	6531	8514	4	50.6	0.1939	0.0604	
	04-50B.1-1	12:22	0.8243	1127	7186	1482	7	17.3	1.0790	0.1921	
	04-50B.1-16	12:41	0.5735	2025	16339	4062	4	16.6	0.9513	0.1864	
	Fr.1-2	13:03	1.2290	2187	7117	9073	7	178	0.1928	0.0638	
	PD95.1-2	13:48	1.0990	2020	430584	152819	11	351	0.6193	0.1046	
	04-50D.1-1	14:13	1.2249	1556	46353	9638	1	12.5	1.1782	0.1815	

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO	203/196 Kcps	206 cps	UO_2 ppm	^{204}Pb ppb	ThO_2 f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	04-SoD.1-1b	14:32	1.1481	2166	44380	9842	0	10.95	1.0354	0.1746	
	04-SoN.1-1	15:11	1.1248	2049	3766	784	5	20.3	1.0806	0.1955	
	Fr.1-3	15:35	1.2187	2131	7101	9453	4	184	0.1831	0.0685	
	04-SoJ.1-1	16:01	1.2483	1466	33734	7106	4	9.82	1.1712	0.1836	
	04-SoJ.1-1b	16:20	1.1442	2068	31187	6858	2	6.44	1.0407	0.1790	
	04-SoE.1-1	16:45	1.2455	1999	27886	5734	3	7.12	1.2113	0.1817	
	04-SoE.1-1b	17:04	1.1870	2597	22773	4996	1	7.89	1.0821	0.1826	
	PD95.1-3	17:27	1.0767	1971	267878	95091	19	322	0.6057	0.1048	
	04-SoL.1-1	18:09	1.2407	1405	21593	4356	11	10.7	1.2300	0.1849	
	04-SoM.1-1	18:36	1.2307	1563	38512	7341	7	17.4	1.1573	0.1851	
	04-SoM.1-1b	18:56	1.1238	1814	30969	6620	21	8.74	1.0515	0.1906	
	Fr.1-4	19:18	1.2144	1990	6949	9002	6 (177)	177	0.1875	0.0629	
	04-SoM.2-1	19:41	1.2417	1820	31632	6592	1	7.50	1.1918	0.1808	
	04-SoM.2-1b	20:00	1.1276	2539	25770	5833	5	8.75	0.9962	0.1829	
	04-SoP.1-1	20:55	1.2410	1526	29754	6433	16	11.3	1.1481	0.1873	
	04-SoG.1-1	21:43	1.3226	1508	21747	4658	8	5.46	1.2349	0.1849	
* 1° dropped out in scan 3.1.4	04-SoG.1-1b	22:04	1.2372	2151	25510	5248	10	6.26	1.1084	0.1850	
	PD95.1-4	22:26	1.0868	1691	273567	84253	10	316	0.6129	0.1050	
	QMa.1-2	22:48	1.2768	1843	6231	7991	5	53.6	0.1991	0.0630	
Sample Change 04-So OUT / 04-Si IN.	04-SoH.1-1	23:14	1.2234	1612	7300	1632	8	11.6	1.0445	0.1955	
	Fr.1-5	00:31	1.2905	1924	6446	8406	5	164	0.1979	0.0646	
	04-SiC.1-1	00:58	1.3279	1545	18399	4042	13	12.7	1.2088	0.1796	
* 1° dropped by 60% during scan 4	04-SiE.1-1b	01:17	1.1660	2335	19901	4426	1	7.47	1.0485	0.1782	
	Fr.1-6	01:40	1.2350	1596	5679	7548	2	147	0.1858	0.0588	
	04-SiB.1-1	02:16	1.2092	1323	15699	3445	9	10724	1.1020	0.1847	

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Rejection over-ride	Sample/ Std ID	Time - printout	UO_2/U	203 ~~196~~ Kcps	206 ~~cps~~	U_{O_2} ~~ppm~~ c	^{204}Pb ~~ppb~~ c	f_{206} ~~%~~	Th_{O_2} K c	Age ±1σ (Ma) 206/~~238~~ 254	207/206	Offsets OK?
	04-SIB.1-1b	02:35	0.9488	2318	14610	3384	6	15.1		0.8141	0.1870	
	PDQS.2-1	02:58	1.1439	1628	534558	186690	7	234		0.6548	0.1041	
	04-SIH.1-1	03:52	1.2576	1360	18051	3906	12 3	12.3		1.1623	0.1797	
	04-SIH.1-1b	04:11	1.1489	2309	18686	4205	0	7.20		0.9635	0.1803	
	04-SIH.2-1	04:38	1.1905	1171	30078	6425	6	11.9		1.1148	0.1829	
	04-SIH.2-1b	04:57	1.0472	1806	26201	5.87	3	12.7		0.9777	0.1804	
	QMa.1-3	05:21	1.3497	1803 510 c	5102	6736	1	49.0		0.2045	0.6030	
	04-SIK.1-1	05:47	1.2269	1407	13952	2985	7	11.2		1.1469	0.1788	
	04-SIK.1-1b	06:06	1.0931	1696	10829	2583	6	9.51		0.9165	0.1817	
	04-SIP.1-1	06:45	1.2144	1002	32634	7020	17	7.26		1.1291	0.1799	
	04-SIP.1-1b	07:04	1.2061	1543	53493	7175	13	7.90		0.9666	0.1847	
	Fr.1-7	07:30	1.2446	1716	5828	7617	6	149		0.1902	0.0571	
	~~PDQS.2-2 04-SIP.1-1b~~	07:51	1.1519	1601	534994	187551	12	236		0.6572	0.1051	
	Fr.1-8	08:12	1.1953	1796	5762	7641	6	148		0.1803	0.0621	
	———			are dropped out during rester							———	
	Fr.1-9	08:47	1.2003	2275	6885	7727	2	182		0.1782	0.0595	✓
	Fr.1-10	09:10	1.1523	2329	7025	9058	5	179		0.1787	0.0598	✓
	04SIP.2-1	09:33	1.2995	1620	23.5K	4990	2	5.6		1.2246	0.1839	✓
Dip in 1° during Scan 5	" 2-1b	09:51	1.2241	2137	19.1K	4305	5	10.3		1.0874	0.1806	✓
	PDQS.2-3	10:15	1.1444	2045	498K	176K	20	289		0.6485	0.1046	✓
aborted after SCAN1	04SIC.1-1	10:37	1.0499	1506	7747	1430	37	14		1.1376	0.2321	✓
— " —	" 1-1b	10:40	1.0000	618	1716	335	30	4.7		1.0245	0.2663	✓
— " —	04SID.1-1	10:54	.789	226	974	146	12	3.8		—	—	✓
	04SIJ.1-1	11:07	1.085	1063	5707	1191	18	8.8		—	—	✓
* Omit last scan. 1° disappeared?	Frenda.1-11		1.187	2128	7138	8760	4	174		0.1934	0.0578	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	203/196 Kcps	206 cps	UO2 ppm Cps	204Pb ppb	f206 %	Th/U Kcps	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	Frech. 1-1	11:31	1.02	2.13	7138	8760	3	174		0.161	0.059	✓
	0451I.1-1a	12:15	1.08	1.70	17972	3895	10	15.5		0.938	0.183	✓
	0451I.1-1b	12:33	1.02	2.90	22683	5239	3	12.7		0.887	0.183	✓
	PD95.3-1	12:58	1.06	1.93	278k	100k	16	363		0.569	0.105	✓
	0451L.1-1a	13:26	1.05	2.37	9881	2267	15	5.19		0.867	0.184	✓
	0451L.1-1b	13:48	1.02	2.82	10967	2608	8	5.82		0.904	0.182	✓
	Qua. 1-4	14:11	1.31	2.02	5757	7748	2	63.7		0.A4	0.060	✓
rename "M" →	0451Q.1-1a	14:37	1.11	1.73	9143	1888	9	9.06		0.982	0.188	✓
↘	0451Q.1-1b	14:55	0.95	2.18	7517	1919	2	10.8		0.737	0.185	✓
	Fr. 1-12	15:18	1.20	1.91	6658	8761	4	169		0.184	0.062	✓
	0451Q.B1-1a	16:02	1.03	1.43	13792	3147	13	17.6		0.828	0.188	✓
	0451Q.B1-1b	16:20	0.91	2.60	11140	2850	11	15.6		0.757	0.188	✓
	0451Q.A1-1a	16:44	1.18	1.65	33580	7140	0	6.68		1.10	0.180	✓
	0451Q.A1-1b	17:03	1.06	2.07	20977	4686	10	8.61		0.957	0.186	✓
	0451Q.A1-2a	17:27	1.22	1.55	31608	6393	3	7.88		1.235	0.181	✓
	0451Q.A1-2b	17:45	1.06	1.57	14236	2934	11	8.94		1.065	0.185	✓
stds now on SPS-3	Fr. 1-1	18:44	1.21	1.84	6294	8033	6	159		0.188	0.061	✓
	PD95.1-1	19:07	1.07	1.67	248k	89k	8	273		0.584	0.105	✓
	0443A.1-1a	19:34	1.18	1.88	13923	2841	2	109		1.128	0.195	✓
	0443A.1-1b	19:52	1.07	2.66	14275	3112	1	99.8		1.033	0.192	✓
	Fr. 1-2	20:14	1.23	1.88	6389	8046	0	159		0.189	0.061	✓
	0443A.1-2a	20:37	1.12	1.68	10751	2376	7	91.1		0.978	0.195	✓
	0443A.1-2b	20:56	1.04	3.02	11741	2769	0	94.8		0.935	0.191	✓
	PD95.2-1	21:19	1.20	1.67	515k	182k	7	207		0.669	0.105	✓
	0443B.1-1a	21:43	1.35	1.82	4446	883	1	70.5		1.313	0.195	✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO$_2$	~~207/196~~ Kcps	206 cps	UO_2 ~~ppm~~ cps	^{204}Pb ~~ppb~~	ThO_2 ~~f206~~ % Kcps	~~Age ±1σ (Ma)~~ 206/~~238~~ 254	207/206	Offsets OK?
	0443B.1-1a	22:02	1.24	2.24	4831	927	0	67.4	1.189	0.192	✓
	Fr.1-3	22:25	1.24	1.65	5969	7826	1	153	0.189	0.061	✓
	0443B.1-2a	22:49	1.10	1.70	20981	3838	20	96.3	1.467	0.175	✓
	0443B.1-2b	23:07	1.18	2.29	17633	3003	12	90.6	1.362	0.204	✓
	PD95.3-1	23:32	1.14	1.52	286k	101k	9	270	0.590	0.114	✓
	0443B.1-3a	23:55	1.31	1.61	4273	874	1	69.0	1.269	0.185	
	0443B.1-3b	00:14	1.23	2.22	4329	898	3	63.3	1.049	0.196	
	0443B.1-4a	00:36	1.26	1.34	25949	4701	1	88.3	1.328	0.189	
	0443B.1-5a	00:58	1.32	1.84	4319	855	3	63.8	1.323	0.191	
	PD95.4-1	01:21	1.19	1.73	557k	201k	13	241	0.660	0.105	
	0443C.1-1a	01:47	1.22	1.86	5073	1070	3	88.0	0.972	0.185	
	0443C.1-2a	02:09	1.28	1.88	5332	1072	6	65.4	1.268	0.196	
	0443C.1-2b	02:27	1.15	2.50	4633	971	0	59.7	1.082	0.196	
	Fr.1-4	02:51	1.28	1.88	5951	7801	4	150	0.187	0.059	
aborted (not mz?)	0443C.2-1a	03:07		0.07	5149	7078	31	3.8			
	0443D.1-1a	03:31	1.36	1.67	4387	893	2	70.5	1.346	0.192	
	0443D.1-1b	03:49	1.27	1.95	4094	854	-	70.3	1.205	0.196	
	0443D.1-2a	04:10	1.34	1.79	3730	753	6	74.1	1.278	0.196	
	0443D.1-2b	04:28	1.20	2.39	3777	775	3	70.4	1.097	0.191	
	PD95.5-1	04:51	1.18	1.59	282	97k	12	255	0.678	0.105	
	0443E.1-1a	05:15	1.30	1.80	5466	1068	2	81.1	1.281	0.192	
	0443E.1-2a	05:36	1.25	1.75	4388	917	1	67.3	1.252	0.194	
	0443E.1-3a	05:57	1.19	1.81	3975	767	3	71.5	1.149	0.197	
	Qma.1-2	06:19	1.32	1.91	5906	7589	1	86.4	0.196	0.060	
	0443E.1-4	06:41	1.28	1.76	5485	1070	7	71.9	1.256	0.196	

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO$_2$	~~206~~ 203 Kcps	206 cps	UO$_2$ ~~ppm~~ cps	^{204}Pb ~~ppb~~	ThO$_2$ ~~f206 %~~ Kcps	Age ±1σ ~~(Ma)~~ 206/~~238~~ 254	207/206	Offsets OK?
	0443E.1-5	07:02	1.20	1.79	4235	847	4	73.0	1.182	0.195	✓
	0443E.1-6	07:22	1.22	1.87	5933	1203	0	76.0	1.206	0.195	✓
	Fn. 1-5	07:44	1.23	1.97	6835	8886	4	178	0.189	0.059	✓
	0443F.1-1	07:50	1.37	1.99	7673	1517	5	80.2	1.349	0.195	✓
	0443F.1-2	08:29	1.30	1.89	5921	1230	6	78.5	1.244	0.191	✓