

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 20/9/95 UWA Mount No.: 95-23 Whose sample?: c. Adams Operator(s): IF + MR

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2	10	10	10	30	10	5	5	2
Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic Count time (secs):	2	10	10	10	10	10	5	5	2
Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.166 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.3 nA PESABM = 45 pA actual resolution = 4885
 expected Primary : PESABM = 50:1 actual Primary : PESABM = 57

Comments: Check that u. 1-1 is in file. 3-1 overwrite on earlier "3-1" of unknown origin.
 4-1 also overwrite an old file. Checked directory at this stage - there is no 5-1, etc.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)	206/238	207/206	Corr.
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Redone all	sl 523.2-1	11:45	6.08	20.0	1890	-	8.8	0.7	-	531	208	
-do-	sl 2-2	12:08	5.83	20	1950	236	8.3	0.5	569	572	208	
-do-	sl 2-3	12:32	5.85	21	1896	237	7.8	0.3	570	589	208	
-"-	u A.1-1	12:59	6.06	20	4039	242	5.9	0.2	1064	1095	204	
#del	u A.2-1		abandon				110+ > 100 Hz					
-"-	3-1	13:42	6.25	21	4809	87	7.8	0.2	2681	2705	204	
	2-2		abandon				common Pb ~ 30% of total Pb					
-"-	sl 2-4	14:21	5.87	21	1855	236	7.7	0.4	570	577	208	
-"-	u A.4-1	14:49	5.96	20.5	1560	80	12.	1.1	1271	1223	204	
	5-1	15:13	6.27	20	2759	190	10.	0.6	850	758	204	
Redone all	6-1	15:40	5.84	20	406	95	13.	3.	312	120	204	

Master 3 → 5 means

Reduced 1σ i.e. Pb/U val dubious

Possibly should be deleted.

Rejection over-ride Sample/Std ID Time - printout UO/U 196 Kcps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Data v. non-linear

v. curved

v. nonlinear? not rounded?

part "A" in file data

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.	
	Restored											
	u 7-1	16:06	5.83	20	830	86	7.8	4.9	711	813	204	
	sl 2-5	16:32	5.76	21	1800	249	6.5	0.5	565	593	208	
	u 8-1	16:58	5.96	22	1211	330	6.2	0.9	245	289	204	
	Rest. all	9-1	5.97	20	428	62	6.0	2.1	481	589	204	
	Delete last ThO	10-1	5.92	21	352	27	11.	4.6	862	530	204	
	Rest. all	11-1	5.82	21	642	190	11.	2.5	246	149	204	
	sl 2-6	18:46	5.98	20.5	1926	238	6.9	0.6	557	537	208	
	u 523.12-1	19:17	6.36	21.2	564	114	4.8	1.7	268	320	204	
	u 523.13-1	19:47	6.14	20.	852	218	7.0	1.4	254	153	204	
	u 523.13-2	20:35	5.80	21.	3304	1008	7.5	0.3	248	282	204	
	u .14-1	21:02	6.07	20.4	452	119	9.6	3.0	245	97	204	
	sl 523.2-7	21:27	5.96	19.9	1804	226	5.7	0.6	565	567	208	
	Delete last 206	u 523A.15-1	21:53	6.14	20.3	323	78	14.7	7.9	247	159	204
	Rest. all	u 523A.16-1	22:18	5.71	18.9	410	146	16.4	3.8	242	91	204
	u 523A.17-1	22:42	5.66	20.6	5022	421	14.4	0.3	949	975	204	
	Delete last 206	u 523A.18-1	23:09	6.61	19.7	524	108	9.2	2.8	251	16.7	204
	Rest. all	sl 523.2-8	23:39	6.05	18.7	1756	227	13.5	0.7	553	641	208
	A.19-1	00:10	6.37	19	2415	150	6.9	0.4	939	1021	204	
	A.20-1	00:37	6.52	17.7	2163	127	8.4	0.6	979	1053	204	
	A.21-1	01:02	6.16	17.6	675	196	21.	4.0	244	150	204	
	Delete last scan	A.22-1	01:28	6.08	18.7	336	97	9.3	4.2	241	399	204
	Rest. all	sl 2-9	01:57	6.17	17.5	1708	218	11.2	0.7	563	582	208
	A.23-1	02:23	6.13	18.	838	229	12.8	2.3	263	66	204	
	A.24-1	02:49	5.75	17.9	437	160	11.1	3.0	243	363	204	
	A.25-1	03:13	6.38	18.9	1523	143	9.3	1.0	630	632	204	

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238 207/206		Corr.
	<i>Restored all</i> A.26-1 → -	3:38	6.12	18.5	1763	103	19.5	1.5	1133	1173	204
<i>-do-</i>	SL523.2-10 → -	4:04	6.09	17.6	1787	231	9.3	0.7	577	561	208
	" A.27-1	4:31	5.91	17.7	672	226	12.9	2.5	245	285	204
	" 300 kHz → A.28-1	4:56	6.19	17.4	2369	663	18.2	1.1	260	245	204
	" 300 kHz → A.29-1	5:21	6.35	17.1	2156	580	7.9	0.5	255	241	204
	" " A.30-1	5:46	6.10	17.4	262	66	34	17.9	254	969	204
	" SL523.3-1	6:16	5.98	19.1	1729	224	8.5	0.6	561	597	208
	" A.31-1	6:43	5.87	18.9	340	101	25	10.3	245	132	204
	" A.32-1	7:08	6.07	17.3	404	107	10.9	2.9	289	0.0	204
	" A.33-1	7:32	6.15	17.2	2446	302	9.4	0.5	583	540	204
	<i>Deleted by scan</i> A.34-1	7:56	6.14	18.3	1169	190	9.7	1.0	429	370	204