

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 27/5/97 UWA Mount No.: 97-09 Whose sample?: Jens Operator(s): IF+AP

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 10 5 5 2  
 Phanerozoic\* Delay time (secs): 8 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 = 8.168 actual 204-bkg = 0.043 expected resolution = >4200  
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5090

Primary = 1.5 nA PESABM = 21 pA actual Primary : PESABM (≈ 50:1) = 71  
 Raster time (mins): 3 Raster aperture (microns): 100 No. of scans: 7

Comments: late start, cold magnet, distorted spot shape (2 grains)

Age vs corrected 5%.  
pre crash Ustd = 5, exclude SL4-3 from data set. (nC = 7, nB = 3)

Processed post crash = 1std = 5 exclude sl 2-3 & 2-4 from data set.  
nD = 11 (10 grains)  
nC = 4 ; nB = 5 (2 grains)

572  
564

Rejection over-ride	Sample/ Std ID	Time - printout	<sup>254</sup> UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)	206/238	207/206	Corr.
	SL709.4-1	13:11	7.01	7.68	928	—	0.7	.04	—	509	208	
	4-2	13:36	7.14	7.2	911	220	0.4	.03	587	595	—	
	u.c.1-1	14:09	7.11	7.3	1000	118	0.9	.07	1171	1199	204*	
	u.c.2-1	14:45	6.96	7.4	1416	69	2.1	.09	2519	2568	204	
	SL709.4-3	15:34	7.00	6.7	772	226	0.8	.08	537	550	204	
	SL709.2-1	16:02	7.08	7.4	908	220	-0.3	.02	563	572	208	
	u.c.3-1	16:35	6.94	7.4	103	26	-0.3	-.02	565	619	—*	
	u.c.4-1	17:03	7.21	7.2	292	19	9.2	<del>2.0</del>	1800	2523	204	
	u.c.5-1	17:28	7.05	7.2	455	58	0.6	.1	1069	1116	204*	
	u.c.6-1	17:55	<del>7.23</del> 6.99	7.2	246	34	0.5	0.2	1013	916	204*	
	SL709.2-2	18:20	7.09	6.8	866	227	-0.3	-0.03	567	566	—	

\* = contaminant

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

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	Corr.
	UC.7-1	18:44	7.18	7.20	402	88	.6	0.1	615	613	204*	
	UB.1-1	19:10	7.22	7.20	611	27	1.1	0.1	2521	2560	204	
	UB.1-2	19:33	7.02	7.04	487	24	0.3	0.04	2537	2582	204	
	UB.2-1	19:57	7.15	7.32	329	14	0.5	0.1	2635	2547	204	
	SL 2-3	21:44	7.18	6.45	701	220	0.6	0.05	572	526	204	
	UB 3-1	22:42	7.84	6.58	293	19.5	3/6	6.8	1757	2507	204	
	UB 4-1	23:07	7.17	6.78	1023	53.2	1.1	0.05	2795	2562	204	
	UB 4-2	23:30	7.44	5.83	1614	93.1	2.25	0.07	2609	2584	204	
	UB 2-2	23:53	6.83	7.16	324	19.4	0	/	2635	2572	-	
	UB 1-3	0:16	6.65	6.93	386	28.1	0.8	0.09	2464	2556	204	
	SL 1-1	0:40	7.70	6.79	887	196	0	-	632	608	208	
	UD1-1	1:08	7.04	7.05	253	12	0.7	0.114	2983	2509	204	
	UD2-1	1:31	7.29	7.03	5374	686	2.8	0.03	1177	1012	204*	
	UD3-1	1:54	7.13	7.12	764	35.8	2.7	0.19	2917	2535	204	
	SD 1-2	2:17	7.29	6.96	825	211	-	-	621 ± 1	499 ± 24	-	
	D4-1	2:46	7.69	6.53	1061	47.1	0.4	0.02	2758 ± 15	2557 ± 11	204	
	D5-1	3:08	7.33	6.79	1164	55.8	11.6	0.53	2783 ± 14	2558 ± 14	204	
	D6-1	3:29	7.32	6.72	651	88.5	4.4	0.43	1140 ± 4	937 ± 46	204*	
	D7-1	3:51	7.49	6.42	428	20.9	0.8	0.11	2752 ± 23	2587 ± 21	204	
	SL 1-3	4:13	7.53	6.67	827	205	-	-	613 ± 1	524 ± 24	-	
	D8-1	4:35	7.38	6.74	1217	59.3	1.2	0.05	2738 ± 13	2575 ± 11	204	
	D9-1	4:56	7.26	7.14	777.2	35.4	-	-	2860 ± 17	2574 ± 12	204	
	D10-1	5:19	7.21	7.28	262	12.2	1.8	0.38	2809 ± 30	2504 ± 29	204	
	D4-2	5:42	7.21	7.29	956	46.5	6	0.26	2705 ± 17	2558 ± 40	208	
	SL 1-4	6:05	7.40	6.94	810	204	0	0.001	607 ± 1	<del>613</del>	208	
	SL 2-4	22:15	6.84	6.80	623	233	0.2	0.02	524	580	204	

B

computer Grad.

incorporate SL 2-4 hex

D

i° at 1.4 nA

change 56 → 6

reject

\* = contaminant

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[C]

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.
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c8-1 6.29 7.22 7.28 459 57.7 0.7 0.01 1190 $\pm$ 5 1033 $\pm$ 46 204 \*

c9-1 6.52 7.60 6.50 846 43.9 2.2 0.14 2744 $\pm$ 15 2492 $\pm$ 14 204

c10-1 7.16 7.43 6.99 238 10.2 0.8 0.19 2912 $\pm$ 33 2517 $\pm$ 30 204

del scans 6,7 for 196, 204, logd.  
del scans 5,6,7 for 7 others

c11-1 7.39 8.01 4.55 91.9 79.1 2.1 1.00 223 $\pm$ 1 0 204 \*? uck!

sl 4-5 8.08 7.15 8.08 876 200 0.9 0.08 603 $\pm$ 1 - 208