

Processed (corrected  $\delta^{90}$ ), no rejections. nE = 20

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
6/6/97	97-09	MEB/JENS	IAN FLETCHER APRIL/JENS

  

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
<del>Phanerozoic</del> Delay time (secs):	78	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 = -0.082		expected resolution = >4200						
actual 206-207 = .00025	actual 206-208 = <del>49986</del> .00034		actual resolution = 4783						
Primary = 3.4 nA	PESABM = 41 pA		actual Primary : PESABM ( $\approx$ 50:1) = 2.5						
Raster time (mins): 1	Raster aperture (microns): 200		No. of scans: 6						

Comments: E = MOZ-POR

$1^{\circ}$  stable. Error message in  $1^{\circ}$  program, solved by turning HV OFF & ON from Aux programme. New  $1^{\circ} \approx 3.8$  nA, but during the analysis of  $1^{\circ}$  stepped down to 3.4 nA. Stable within an analysis but drifts between 3.4 to 3.8 nA.   
 computer crashed.

NB: Time on printout is incorrect (hrs in reverse ie 24:00 = 12pm)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Corr.
	SL 3-1	22:55	6.14	16.5	1498	220	-0.2	0.002	572 $\pm$ 1	540 $\pm$ 20	208
	SL 3-2	23:12	6.03	16.5	1460	231	0.1	0.01	565 $\pm$ ?	633 $\pm$ ?	204
	E 1-1	23:32	5.94	17.2	2178	56.5	-0.5	-	2876 $\pm$ 11	2855 $\pm$ 7	-
	E 2-1	23:49	6.22	17.0	1746	35.4	2.0	0.12	3129 $\pm$ 15	3086 $\pm$ 8	204
	E 3-1	24:08	6.34	16.8	1798	36.4	1.1	0.07	3011 $\pm$ 14	2941 $\pm$ 9	204
	E 4-1	24:26	5.88	16.1	2998	97.7	3.9	0.11	2590 $\pm$ 8	2852 $\pm$ 7	204
	SL 3-3	24:47	6.12	17.0	1537	223	0.0	-	571 $\pm$ 1	595 $\pm$ 19	-
	E 5-1	1:06	6.63	17.2	11.6K	217	66.1	0.74	2826 $\pm$ 5	2759 $\pm$ 5	204
	E 6-1	1:23	6.14	17.8	2650	58.1	2.2	0.09	2942 $\pm$ 11	2821 $\pm$ 7	204*
	E 7-1	1:40	6.11	17.3	1404	32.1	0	-	2939 $\pm$ 15	2842 $\pm$ 9	-
	E 8-1	1:57	6.29	17.3	4496	98.1	1.3	0.03	2826 $\pm$ 8	2831 $\pm$ 5	204

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps (K) 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 (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	E 9-1	2.15	6.21	17.2	3783	83.4	1.2	0.03	2913 ± 9	2831 ± 6	204
	<del>SL 3-4</del>	<del>2.32</del>	<del>5.96</del>	<del>18.1</del>	<del>1580</del>	<del>227</del>	<del>1.6</del>	<del>0.13</del>	<del>589 ± 1</del>	<del>477 ± 30</del>	<del>204</del>
	E 10-1	3.02	5.95	19.9	946	20.9	1.5	0.17	2889 ± 17	2808 ± 14	204
	<del>SL 3-5</del>	<del>3.23</del>	<del>6.09</del>	<del>16.8</del>	<del>1539</del>	<del>225</del>	<del>-ve</del>	<del>-ve</del>	<del>578 ± 1</del>	<del>563 ± 19</del>	<del>204</del>
	E 11-1	3.41	6.22	17.6	1058	20.0	0.5	0.05	3220 ± 20	3085 ± 10	204
	E 12-1	3.58	6.06	18.1	2459	56.1	0.1	0.003	2897 ± 2	2843 ± 2	204
	E 13-1	4.16	6.33	18.0	3373	69.6	2.8	0.00	2811 ± 9	2861 ± 6	204
	E 14-1	4.34	6.22	18.7	2511	52.1	1.7	0.08	2846 ± 11	2875 ± 7	204
	E 15-1	4.51	7.20	17.5	109K	293	44.9	0.71	1663 ± 2	2612 ± 5	204
	<del>SL 3-6</del>	<del>5.08</del>	<del>5.90</del>	<del>18.4</del>	<del>1540</del>	<del>232</del>	<del>-ve</del>	<del>-</del>	<del>571 ± 1</del>	<del>549 ± 19</del>	<del>-</del>
	E 16-1	5.26	6.20	18.4	2821	58.9	1.0	0.04	2900 ± 10	2825 ± 7	204
	E 17-1	5.44	6.11	18.4	1357	29.8	-ve	-	2900 ± 15	2851 ± 9	204
	E 18-1	<del>6.01</del>	<del>6.30</del>	18.7	2511	49.0	0.5	0.02	2885 ± 11	2859 ± 7	204
	E 19-1	6.23	6.16	19.9	2090	41.1	0.3	0.02	2887 ± 12	2829 ± 10	204
	E 20-1	6.44	5.96	19.9	1506	33.3	0.2	0.01	2880 ± 14	2841 ± 10	204
	<del>SL 3-7</del>	<del>7.07</del>	<del>5.85</del>	<del>20.3</del>	<del>1643</del>	<del>231</del>	<del>-0.3</del>	<del>-</del>	<del>571 ± 1</del>	<del>510 ± 18</del>	<del>-</del>

1° = 3.4 nA  
 Error message on 1°  
 1° = 3.8 nA stepped to 3.4 nA  
 3.4 nA  
 3.4 nA  
 3.5 nA  
 3.6 nA  
 3.7-3.8 nA  
 3.6 nA  
 3.7 nA  
 3.6 nA  
 3.8 nA  
 38  
 3.95