

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

Date: 6/2/96      UWA Mount No.: 96-03      Whose sample?: D-Anne      Operator(s): IF+DA+FB

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Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b> Count time (secs):	2	10	10	10	30	10	5	5	2
Delay time (secs):	7	3	1	2	1	1	3	2	2
<b>Phanerozoic</b> 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 = 8.168      actual 204-bkg = 0.045      expected resolution = >4200  
 Primary = 2.2 nA      PESABM = 41 pA      actual resolution = 4686  
 expected Primary : PESABM = 50:1      actual Primary : PESABM = 54

Comments: ① Reblaped spots slightly  
 ② Change to 5 min raster

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.
	<u>sl 963.6-1</u>	<u>12:31</u>	<u>5.74</u>	<u>17</u>	<u>1689</u>	<u>-</u>	<u>5.7</u>	<u>0.2</u>	<u>-</u> <u>648</u>	<u>208</u>
	<u>sl 6-2</u>	<u>12:50</u>	<u>5.82</u>	<u>17</u>	<u>1705</u>	<u>223</u>	<u>7.2</u>	<u>0.5</u>	<u>566</u> <u>655</u>	<u>208</u>
	<u>U963A.1-1</u>	<u>13:12</u>	<u>5.98</u>	<u>16.8</u>	<u>479</u>	<u>81</u>	<u>2.1</u>	<u>0.7</u>	<u>395±1</u> <u>0</u>	<u>208</u>
	<u>U963A.2-1</u>	<u><del>13:45</del></u>	<u><del>5.75</del></u>	<u><del>17.2</del></u>	<u>-</u>	<u>177</u>	<u>dropped</u>	<u>20%</u>	<u>-</u>	
	<u>sl 6-3</u>	<u>13:45</u>	<u>5.75</u>	<u>17.2</u>	<u>1685</u>	<u>218</u>	<u>9.5</u>	<u>0.8</u>	<u>573</u> <u>589</u>	<u>208</u>
	<u>u 3-1</u>	<u>14:17</u>	<u>5.92</u>	<u>16.2</u>	<u>576</u>	<u>93</u>	<u>2.8</u>	<u>0.2</u>	<u>403</u> <u>515</u>	<u>208</u>
	<u>u 4-1</u>	<u>14:42</u>	<u>5.89</u>	<u>16.0</u>	<u>725</u>	<u>137</u>	<u>5.1</u>	<u>0.2</u>	<u>398</u> <u>673</u>	<u>208</u>
	<u>u 5-1</u>	<u>15:07</u>	<u>5.77</u>	<u>16.4</u>	<u>443</u>	<u>85</u>	<u>2.2</u>	<u>0.1</u>	<u>408</u> <u>598</u>	<u>208</u>
	<u>u 6-1</u>	<u>15:30</u>	<u>5.80</u>	<u>16.6</u>	<u>560</u>	<u>103</u>	<u>3.7</u>	<u>1.0</u>	<u>407</u> <u>242</u>	<u>204</u>
	<u>sl 6-4</u>	<u>15:55</u>	<u>5.76</u>	<u>17.0</u>	<u>1679</u>	<u>218</u>	<u>7.6</u>	<u>0.7</u>	<u>571</u> <u>592</u>	<u>208</u>
	<u>u 7-1</u>	<u>16:21</u>	<u>5.93</u>	<u>15.7</u>	<u>567</u>	<u>105</u>	<u>2.7</u>	<u>0.7</u>	<u>400</u> <u>268</u>	<u>204</u> *

↑ 120 μ  
100 μ raster  
↓ 120 μ    ②

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.
	u A7-2	16:43	5.87	16.1	521	95	1.8	0.5	409	379	204
	u 8-1	17:07	5.78	16.1	572	114	3.8	0.9	397	213	204
1° dropped.	sl 6-5	17:31	5.87	15.2	1607	220	9.3	0.5	574	565	208
	u A.9-1	17:57	5.77	17.5	810	145	3.5	0.6	409	349	204
	10-1	—	abandon	—	—	—	high	204	—	—	—
	UA.11-1	18:35	5.57	17.2	607	126	3.4	0.7	407±1	0	208
	VA.12-1	18:59	5.77	16.9	734	138	1.8	0.3	403±1	394±73	204
	VA.13-1	19:22	5.69	17.4	619	118	1.0	0.2	408±1	408±69	204
	S/963.6-6	19:46	5.77	17.4	1698	216	6.1	0.5	570±1	525±79	208
	VA.14-1	20:08	5.60	16.8	317	68	2.4	1.0	401±1	335±134	204
	VA.15-1	20:32	5.87	16.4	641	119	2.0	0.5	397±1	355±90	204
	VA.16-1	20:55	5.70	17.4	308	63	1.1	0.5	380±1	500±18	204
1° dropped - 20% + drifting...	VA.17-1	21:17	5.75	16.2	818	161	1.5	0.3	409±1	477±52	204
1° dropped 20%	S/963.6-7	21:41	5.77	16.2	1598	220	12.1	1.0	580±1	580±31	208
	VA.18-1	22:03	5.65	17.4	852	164	0.0	neg.	413±1	516±38	—
	VA.19-1	22:26	5.76	17.3	770	141	6.7	0.6	406±1	735±53	208
	VA.20-1	22:50	5.61	18.8	410	76	8.7	1.8	403±1	648±74	208
1° dropped (~5%)	VA.21-1	23:13	5.71	16.2	279	59	4.7	0.3	392±1	758±76	208
	S/963.5-1	23:37	5.64	17.8	1737	229	8.5	0.4	585±1	647±27	208
1° dropped to 0 (6th + 7th scan)	<del>VA.22-1</del>	<del>00:01</del>	<del>4.13</del>	<del>17.7</del>	<del>383</del>	<del>165</del>	<del>2.6</del>	<del>0.2</del>	<del>802±3</del>		
1° dropped - 20%	VA.22-2	00:30	5.61	20.9	725	118	1.6	0.4	414±1	254±71	204
1° unstable (50%)	VA.23-1	00:53	5.78	14.9	710	148	27.8	5.2	390±2	63±172	204
	S/963.5-2	01:17	5.71	22.6	2200	220	1.8	0.1	582±1	578±24	208
	VA.24-1	01:40	5.68	22.7	645	92	1.3	0.4	416±1	401±80	204
	VA.25-1	02:03	5.60	23.5	865	126	0.8	0.2	416±1	443±55	204

T=22.3°C



Rejection over-ride	Sample/Std ID	Time - printout	UO/U $\mu$ cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238 207/206		Corr.
	UA-24-2	02:26	5.56	22.3	517	84	2.6	0.8	408 $\pm 1$	211 $\pm 118$	204
	UA-26-1	02:49	5.75	22.9	714	99	0.0	1.1	(410 $\pm 1$ )	(378 $\pm 44$ )	no corr. pos.
	S/963.5-3	03:12	5.91	21.7	2135	211	3.6	0.2	544 $\pm 1$	651 $\pm 24$	208
	UA-27-1	03:35	5.57	22.7	476	74	2.3	0.8	410 $\pm 1$	264 $\pm 113$	204
1° dropped 20%	UA-28-1	03:59	5.83	19.7	479	72	23	9.4	383 $\pm 1$	196 $\pm 134$	208
	UA-29-1	04:23	5.56	20.8	627	110	1.0	0.2	401 $\pm 1$	324 $\pm 74$	204
	UA-30-1	04:47	5.65	20.5	482	80	1.5	0.5	407 $\pm 1$	424 $\pm 104$	204
	S/963.5-4	05:13	5.70	22.1	2119	222	5	0.2	570 $\pm 1$	660 $\pm 24$	208
	UA-31-1	05:37	5.54	20.6	605	103	19.5	0.1	412 $\pm 1$	747 $\pm 63$	208
	UA-32-1	05:59	5.72	21.1	1240	187	1.7	0.2	415 $\pm 1$	450 $\pm 45$	204
repeat (to shakier - dropped about)	UA-33-1	06:29	5.70	21.8	494	73	0.7	0.3	414 $\pm 1$	422 $\pm 89$	204
dillo	UA-34-1	07:12	5.89	18.1	562	89	1.8	0.5	412 $\pm 1$	446 $\pm 81$	204
	S/963.5-5	07:32	5.58	21.8	1919	217	6.6	0.4	575 $\pm 1$	687 $\pm 26$	208
	S/963.5-6	07:53	5.65	20.9	1993	229	6.2	0.3	568 $\pm 1$	590 $\pm 26$	208
	UA-35-1	08:17	5.66	20.7	807	125	0.8	0.1	426 $\pm 1$	391 $\pm 64$	204

T = 224°C