

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

Date: *11/7/97*      UWA Mount No.: *97-22*      Whose sample?: *Keri Cassidy*      Operator(s): *McW + 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):    18    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 = *0.044*      expected resolution = >4200

actual 206-207 = *0.999*      actual 206-208 = *1.998*      actual resolution = *4783*

Primary = *4.1* nA    PESABM = *61* pA    actual Primary: PESABM (= 50:1) = *67.2*

Raster time (mins): *2*      Raster aperture (microns): *100*      No. of scans: *6*

Comments:    *D = 9796 70386 = Priority 1*  
                  *A = " 9044 = " 2*

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.
	<i>sl. 5-1</i>	<i>10:34</i>	<i>6.14</i>	<i>21.7</i>	<i>2132</i>	<i>220</i>	<i>-0.6</i>	<i>.07</i>	<i>572 ± 1</i>	<i>501 ± 17</i>		<i>208</i>	
	<i>sl. 5-2</i>	<i>10:55</i>	<i>6.34</i>	<i>21.7</i>	<i>2281</i>	<i>214</i>	<i>-0.5</i>	<i>-</i>	<i>568 ± 1</i>	<i>564 ± 15</i>		<i>-</i>	
	<i>D. 1-1</i>	<i>11:15</i>	<i>6.00</i>	<i>23.0</i>	<i>1917</i>	<i>39.6</i>	<i>2.1</i>	<i>.16</i>	<i>2476 ± 10</i>	<i>2665 ± 9</i>		<i>204</i>	
	<i>D. 1-2</i>	<i>11:33</i>	<i>6.10</i>	<i>22.9</i>	<i>3.5K</i>	<i>67.0</i>	<i>3.5</i>	<i>.15</i>	<i>2529 ± 8</i>	<i>2625 ± 7</i>		<i>"</i>	
	<i>sl. 5-3</i>	<i>11:50</i>	<i>6.05</i>	<i>21.5</i>	<i>2012</i>	<i>228</i>	<i>-0.1</i>	<i>-</i>	<i>552 ± 1</i>	<i>549 ± 16</i>		<i>-</i>	
	<i>D. 2-1</i>	<i>12:09</i>	<i>5.83</i>	<i>20.3</i>	<i>3.5K</i>	<i>87.9</i>	<i>1.3</i>	<i>.04</i>	<i>2538 ± 8</i>	<i>2652 ± 7</i>		<i>204</i>	
	<i>D. 3-1</i>	<i>12:26</i>	<i>5.96</i>	<i>21.0</i>	<i>2.6K</i>	<i>58.2</i>	<i>0.8</i>	<i>.04</i>	<i>2604 ± 9</i>	<i>2649 ± 7</i>		<i>"</i>	
	<i>D. 4-1</i>	<i>12:44</i>	<i>6.18</i>	<i>21.5</i>	<i>2.4K</i>	<i>44.3</i>	<i>0.0</i>	<i>-</i>	<i>2635 ± 10</i>	<i>2656 ± 8</i>		<i>-</i>	
	<i>sl. 5-4</i>	<i>13:03</i>	<i>6.12</i>	<i>20.7</i>	<i>2026</i>	<i>224</i>	<i>-0.1</i>	<i>.04</i>	<i>566 ± 1</i>	<i>583 ± 17</i>		<i>208</i>	
	<i>D. 5-1</i>	<i>13:21</i>	<i>6.05</i>	<i>20.5</i>	<i>3.7K</i>	<i>81.7</i>	<i>-0.3</i>	<i>-</i>	<i>2541 ± 8</i>	<i>2659 ± 6</i>		<i>-</i>	
	<i>D. 6-1</i>	<i>13:39</i>	<i>6.01</i>	<i>20.7</i>	<i>3.6K</i>	<i>77.2</i>	<i>0.6</i>	<i>.02</i>	<i>2602 ± 8</i>	<i>2662 ± 6</i>		<i>204</i>	

*Blue pen (RF 9/2/98)*

*Neary ↑*

*slow low. edit 10 -3. pA*

*slow*

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Corr.
	D.7-1	13:56	6.17	20.2	2.7K	54.8	1.5	-0.7	2599 ± 10	2653 ± 8	204
	sl. 5-5	14:15	6.01	20.4	1948	228	1.2	.10	576 ± 1	522 ± 28	"
	D.8-1	14:33	6.03	19.8	3.3K	74.0	0.2	-0.1	2605 ± 9	2652 ± 6	"
	D.9-1	14:51	6.08	20.2	4.1K	86.2	-0.5	—	2628 ± 8	2649 ± 6	—
	D.9-2	15:09	6.18	20.6	3.0K	59.1	1.7	.08	2614 ± 9	2662 ± 7	204
	D.10-1	15:27	6.02	19.6	2.6K	57.5	0.0	—	2639 ± 10	2656 ± 7	—
	sl. 5-6	15:45	5.93	20.2	1881	233	-0.1	—	573 ± 1	577 ± 17	—
	D.11-1	16:03	6.17	18.9	4.6K	97.0	0.0	0.0	2675 ± 8	2657 ± 5	204
	D.12-1	16:21	6.00	20.2	4.4K	95.5	0.3	.01	2636 ± 8	2659 ± 6	204
	D.13-1	16:39	6.17	19.3	4.3K	101	7.9	.24	2388 ± 7	2630 ± 7	"
	D.14-1	17:03	6.32	18.5	3.8K	79.4	0.3	.01	2550 ± 8	2664 ± 6	"
	sl. 5-7	17:21	6.17	19.2	1986	222	0.7	.06	584 ± 1	556 ± 22	"
	D.15-1	17:39	6.20	19.4	4.5K	96.0	1.1	-0.3	2572 ± 7	2660 ± 6	"
	D.16-1	17:57	5.88	20.2	2.8K	67.3	1.0	-0.4	2562 ± 9	2659 ± 7	"
	D.16-2	18:15	5.66	19.1	2.2K	62.0	0.5	.02	2693 ± 11	2723 ± 8	"
	D.16-3	18:33	6.06	18.7	2.4K	55.0	0.3	0.02	2620 ± 10	2649 ± 8	"
	sl. 5-8	18:51	6.06	19.0	<del>1885</del>	231	0.1	0.01	576 ± 1	528 ± 18	208
	D.17-1	19:12	6.26	18.9	3.5K	73.5	-0.1	—	2599 ± 8	2661 ± 6	—
	D.18-1	19:31	6.04	18.6	1803	41.8	3.4	0.22	2640 ± 12	2629 ± 10	204
	D.19-1	19:52	6.09	18.7	1541	34.3	0.0	0.004	2657 ± ?	2646 ± ?	204
	D.20-1	20:10	6.14	18.4	2.1K	46.0	-0.1	—	2711 ± 11	2658 ± 8	—
	sl. 5-9	20:29	6.13	19.1	1903	222	0.4	0.03	577 ± 1	554 ± 21	204
	D.21-1	20:48	6.33	18.3	4.7K	93.7	0.7	0.02	2669 ± 8	2643 ± 5	204
	D.22-1	21:11	6.06	18.9	2.6K	56.9	1.4	0.07	2681 ± 10	2676 ± 8	204
	D.23-1	21:34	6.25	18.3	3.4	67.8	1.4	0.05	2741 ± 9	2660 ± 7	204

sample

slight bridge in 13 lower probability

Delete last 4 man

slight dip

Mount/sample No: 97-22

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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.
	uD24-1	21:52	6.21	18.5	1690	35.4	0.7	0.06	2686 ± 13 2641 ± 10	204
	uD24-2	22:11	6.15	18.1	2.3k	50.3	-0.2	-	2667 ± 11 2668 ± 8	?
	sl5-10	22:30	6.21	17.6	1842	222	0.3	0.02	580 ± 1	208
	uA1-1	23:02	6.14	18.4	91.2k	2716	27.4	0.04	2075 ± 1 2165 ± 1	204
	uA2-1	23:21	6.69	15.1	60.9k	1990	12.5	0.03	1971 ± 1 2064 ± 2	204
	uA3-1	23:46	6.13	18.8	6.6k	149	52.6	0.98	2572 ± 6 2629 ± 7	204
	uA4-1	24:05	6.25	18.4	1748	32.4	0.4	0.03	2921 ± 14 2797 ± 9	204
	sl.4-1	24:24	6.21	18.4	1855	219	-1.2	0.001	568 ± 1 557 ± 12	208
	uA5-1	24:44	6.95	15.0	130k	2994	23.8	0.03	2239 ± 1 2168 ± 1	204
	u.A6-1	1:03	7.18	13.8	210k	4455	21.8	0.02	2354 ± 1 2197 ± 1	204
	u.A7-1	1:21	7.76	13.0	572k	8433	10.4	0.003	2795 ± 1 2434 ± 1	204
	uA8-1	1:46	7.30	13.2	215k	4260	114.7	0.08	2486 ± 1 2373 ± 1	204
	sl.4-2	2:06	6.23	18.6	1798	214	-0.4	0.002	555 ± 1 535 ± 19	208
	uA9-1	2:31	6.69	16.3	217k	4011	5.6	0.004	2731 ± 1 2568 ± 1	204
	uA10-1	2:49	7.11	13.8	155k	3756	160.2	0.16	2159 ± 1 2064 ± 1	204
	uA11-1	3:08	6.78	22.3	10.4k	108	134.9	26.2	2555 ± 9 2617 ± 30	204
	uA12-1	3:26	7.24	14.6	244k	3642	5.8	0.004	2945 ± 1 2617 ± 1	204
	sl.4-3	3:46	6.29	17.6	1650	208	0.3	0.05	587 ± 1 588 ± 19	208
	sl.4-4	4:06	6.28	17.9	1650	207	-0.5	0.01	531 ± 1 534 ± 19	208 ?
	uA13-1	4:24	7.94	12.0	380k	5520	49.2	0.22	2879 ± 1 2473 ± 1	204
	uA14-1	4:47	6.74	14.2	89.6k	2709	55.9	0.08	1980 ± 1 2121 ± 2	204
	uA15-1	5:04	7.23	12.7	302k	5234	9.5	0.004	2934 ± 1 2603 ± 1	204
	uA16-1	5:23	7.43	12.5	254k	4451	211.1	0.12	2766 ± 1 2557 ± 1	204
	sl.4-5	6:04	6.39	15.8	1435	195	0.1	0.001	527 ± 1 510 ± 21	208 ?
	uA17-1	5:45	7.05	13.1	250k	4868	1.3	0.001	2755 ± 1 2603 ± 1	204

i' = 3.9 →

i' = 3.7 →

i' = 3.7 →

A

i' = 3.8 →

1st + last scans  
1st + last ThO  
Delete 1st + last scans  
(remove from 206+ analysis)  
way off calib. line  
Delete 1st ThO

i' = 3.7 →

i' = 3.6 →

\* Think most of Aop A are non-zoned

