

UWA SHRIMP DATA LOG

Date: 2-6-04 UWA Mount No.: 04-49 Whose sample?: Maree Operator(s): AP + MA

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 10 10 ~~10~~³⁰ ~~30~~¹⁰ 10 5 5 2

Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

Steel: Wein volts / nA = 94v/8.4 for O₁⁻; = 68v/2.2 for O₂⁻; = 58v/2.7 for NO⁻

dead-time = 24 nanosecs expected resolution = >4200 actual resolution = 4609

aperture = 50 microns retardation lens = 0 volts sensitivity = 19.59

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 = 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170 204-bkg = 0.45 204-206 = 1.998

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 1.8 nA Primary-CZ3 = 2.4 nA PESABM-CZ3 = 81 pA

Raster time (mins): 2 Raster aperture (microns): ~~50~~ 50 No. of scans: 6

Comments: A: 10-15 zoned! youngest ~85 Ma another @ 88 Ma
 B: 10-15 zoned! ~80 Ma " ~87 Ma

alot of metamict grains → C: 10-15

2-3: 2.3405
 Pb/U = 0.1501
 UO/U = 5.8662

~26 min bet analyses

STIZ continues 3-6-04 (? combine stals poss?)

I^o gradually ↑, finished ~3.8 nA

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	208-corr		Offsets OK?
									Age ±1σ (Ma)	206/238 207/206	
	<u>CZ-2-3</u>	<u>11:55</u>	<u>5.87</u>	<u>24</u>	<u>1500</u>	<u>238</u>	<u>(1.1)</u>	<u>0.14</u>	<u>571 ± 5</u>	<u>528 ± 35</u>	✓
	<u>CZ-2-4</u>	<u>12:21</u>	<u>6.32</u>	<u>22</u>	<u>1700</u>	<u>258</u>	<u>(4.6)</u>	<u>0.17</u>	<u>574 ± 3</u>	<u>526 ± 30</u>	✓
	<u>A-8-1</u>	<u>12:47</u>	<u>6.34</u>	<u>21</u>	<u>73</u>	<u>76</u>	<u>1.7</u>	<u>1.51</u>	<u>88 ± 1</u>	<u>78 ± 273</u>	✓
	<u>A-9-1</u>	<u>13:15</u>	<u>5.99</u>	<u>21</u>	<u>29</u>	<u>56</u>	<u>2.2</u>	<u>0.68</u>	<u>88 ± 1</u>	-	✓
	<u>CZ-2-5</u>	<u>13:41</u>	<u>5.92</u>	<u>25</u>	<u>1700</u>	<u>250</u>	<u>1.0</u>	<u>0.08</u>	<u>565 ± 4</u>	<u>541 ± 30</u>	✓
	<u>A-10-1</u>	<u>14:07</u>	<u>6.24</u>	<u>22</u>	<u>59</u>	<u>62</u>	<u>1.9</u>	<u>1.81</u>	<u>85 ± 1</u>	-	✓
	<u>A-11-1</u>	<u>14:31</u>	<u>6.32</u>	<u>22</u>	<u>71</u>	<u>74</u>	<u>2.3</u>	<u>1.39</u>	<u>84 ± 7</u>	-	✓
	<u>CZ-6-1</u>	<u>14:56</u>	<u>5.88</u>	<u>26</u>	<u>1800</u>	<u>249</u>	<u>0.9</u>	<u>0.11</u>	<u>578 ± 4</u>	<u>531 ± 38</u>	✓

I^o = 2.6 nA

1.5 mic @ post aperture 30um

I^o = 2.7 nA

1.5 mic @ post aperture 35um

I^o = 2.9 nA

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	208-cs/v Age ± 1σ (Ma)		Offsets OK?
									206/238	207/206	
	A.12-1	15:23	6.34	23	90	89	1.4	3.08	85 ± 2	-	✓
	A.13-1	15:47	6.00	26	49	47	2.2	2.18	88 ± 1	-	✓
	A.14-1	16:13	6.15	25	51	47	1.9	0.97	89 ± 2	-	✓
Proaster ssym	C2.6-2	16:38	6.09	26	1900	249	1.9	0.17	583 ± 5	580 ± 38	✓
nm	A.15-1	17:05	6.32	23	67	67	0.6	1.22	87 ± 2	-	✓
core	A.15-2	17:30	6.00	25	66	62	1.8	1.22	88 ± 1	-	✓
	A.16-1	17:57	5.90	27	82	66	8.3	1.5	87 ± 3	-	✓
	A.16-2	18:23	6.16	24	44	40	0.7	2.3	91 ± 3	-	✓
sl. - 1d be s-2	C2.2	18:48	6.00	27	1900	257	2.18	0.16	572 ± 3	606 ± 32	✓
	A.17-1	19:15	6.05	26	74	69	1.7	3.3	86 ± 2	-	✓
	A.18-1	19:41	5.92	27	71	58	7.1	1.5	86 ± 4	-	✓
	A.19-1	20:07	6.08	27	100	92	1.2	1.8	88 ± 4	-	✓
	C2.3-3	20:33	5.94	28	1900	249	1.8	0.14	566 ± 3	473 ± 36	✓
	A20-1	21:01	5.88	28	55	50	0.5	1.3	86 ± 3	-	✓
	A.21-1	21:27	5.93	29	55	44	0.5	1.6	90 ± 2	451	✓
	A.22-1	21:52	6.13	29	87	71	0.5	1.0	89 ± 2	-	✓
	C2.5-3	22:19	6.16	29	2100	253	1.2	0.00	579 ± 3	567 ± 41	✓
	A.23-1	22:48	5.98	29	69	57	1.1	2.7	86 ± 3	-	✓
	A.23-2	23:13	6.11	26	130	119	1.3	1.5	87 ± 1	-	✓
	A.24-1	23:38	5.86	28	73	64	0.9	1.9	88 ± 2	-	✓
	C2.5-4	00:04	6.25	27	2100	264	0.5	0.04	565 ± 3	571 ± 31	✓
	A.25-1	00:30	6.03	29	66	55	0.6	1.4	88 ± 2	-	✓
	A.26-1	00:56	6.07	29	73	61	1.3	2.9	84 ± 4	-	✓
	A.27-1	01:20	5.67	32	58	47	1.9	5.4	85 ± 3	-	✓
	C2.5-6	01:46	5.72	31	2000	254	0.6	0.05	571 ± 6	575 ± 31	✓

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	Offsets OK?
	A 27-2	02:12	5.90	29	450	219	1.0	0.34	153±3	116±117	✓
	A 28-1	02:37	5.96	30	85	68	0.9	1.8	89±3	-	✓
	A 29-1	03:10	6.08	28	66	55	1.6	3.9	86±2	-	✓
	A 29-2	07:35	5.98	30	38	32	0.3	1.3	85±5	←	✓
	C2.5-7	04:00	6.14	30	2400	266	1.3	0.10	583±9	554±41	✓
	A 30-1	04:25	6.15	30	100	76	0.6	1.06	91±1	-	✓
change to 6-1	zoned rim B. 1-1	04:51	6.27	28	180	158	1.4	1.27	81±1	-	✓
7-1	zoned core B. 2-1	05:15	5.93	31	150	127	-	-	84±1	-	✓
8-1	zoned core ± rim B. 3-1	05:42	5.96	33	76	60	0.2	0.48	83±2	-	✓
	C2.5-8	06:08	5.89	31	2200	257	-	-	589±5	547±44	✓
9-1	zoned core ± rim B. 4-1	06:33	5.96	31	120	101	0.8	1.13	83±1	←	✓
10-1	zoned core B. 5-1	06:59	6.19	32	140	103	1.1	1.44	87±1	-	✓
11-1	zoned rim ± core B. 6-1	07:25	6.11	35	330	215	18.3	11	82±1	-	✓
	C2.5-9	07:51	6.15	31	2300	259	1.0	0.05	567±5	532±44	✓
12-1	B. 7-1	08:18	5.66	33	170	117	1.3	1.26	101±38	-	✓
13-1	zoned core B. 8-1	08:44	6.02	35	71	52	0.0	-	85±1	-	✓