

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?		Operator(s)
13/4/99	99-11	SB/AMIRA 437A		SB

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	2	10	10	10/20	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 = 0.045 amu Dead-time =32..... nanosecs
 actual 196-204 =8.166..... actual 204-bkg =0.045..... expected resolution = >4200
 actual 206-207 =1.000..... actual 206-208 =1.999..... actual resolution =5336.....

Primary =3.7..... nA (Zirc) PESABM =42..... pA actual Primary : PESABM (= 50:1) =
 Raster time (mins):1..... Raster aperture (microns):120..... No. of scans:6.....

Comments: Population A : E233 continuing from 6/4/99
 " G : E209

Stds.
 n=8
 1.16%

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	Sl.8-2	11:20	6.69	15.7	1690	220	1.1	.02	572 ± 1	515 ± 20	✓
	Sl.8-3	11:39	6.68	15.9	1680	218	0.7	.06	566 ± 1	598 ± 20	
	A.10-1	11:58	7.32	13.9	1828	32	0.2	.01	3040 ± 15	3023 ± 8	
	A.11-1	12:20	6.82	15.7	3086	60	1.8	.07	2978 ± 11	3021 ± 6	
	Sl.8-4	12:40	6.64	14.7	1535	226	-ve	.07	551 ± 1	557 ± 20	✓
	A.12-1	12:59	6.97	15.0	743	13	0.2	.03	3142 ± 24	3073 ± 12	
	A.13-1	13:17	6.69	15.5	4711	114	1.2	.03	2619 ± 7	2697 ± 5	
	A.14-1	13:35	6.68	15.2	5385	134	1.6	0.3	2626 ± 7	2701 ± 5	
	A.15-1	13:56	6.52	15.5	458	11	-ve	-	2857 ± 26	2783 ± 16	
	Sl.8-5	14:15	6.63	15.7	1639	218	1.6	.01	576 ± 1	560 ± 19	✓
	A.16-1	14:33	7.62	14.5	11.8K	220	7.9	.10	2542 ± 5	2597 ± 4	

Mount/sample No: 97-11

Date: 13/4/99

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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.17-1	14:50	7.88	13.6	14.9k	279	8.8	.10	2488 ± 4	2451 ± 3	
	A.18-1	15:08	7.31	15.8	7743	143	4.4	.08	2623 ± 6	2728 ± 4	
	A.19-1	15:28	6.47	15.3	2107	50	2.0	.09	2923 ± 12	2974 ± 8	
	A.20-1	15:45	6.84	15.5	4827	100	3.3	.08	2834 ± 8	2859 ± 5	
	Sl.7-1	16:04	6.64	15.9	1655	220	1.6	2.01	566 ± 1	596 ± 19	
	A.20-2	16:23	7.00	13.7	3276	81	1.8	.06	2578 ± 8	2708 ± 7	
	A.21-1	16:41	7.06	14.3	7191	163	3.0	.05	2605 ± 6	2736 ± 4	
	A.22-1	17:00	6.84	15.4	3010	57	0.8	.03	3043 ± 11	2971 ± 6	✓
	A.23-1	17:22	6.42	15.6	3322	82	1.6	.05	2844 ± 9	2908 ± 6	
	A.23-2	17:41	6.38	14.5	2005	76	9.2	.41	2167 ± 8	2790 ± 10	
	Sl.6-1	18:01	6.66	15.7	1623	217	0.0	-	564 ± 1	593 ± 18	
	A.24-1	18:19	6.20	15.8	3452	84	2.9	.09	2652 ± 8	2701 ± 6	
	A.25-1	18:36	6.76	14.3	3498	80	0.8	.02	2867 ± 10	2976 ± 6	
	A.26-1	18:55	7.27	14.5	5999	128	8.0	.18	2527 ± 6	2631 ± 5	
	A.27-1	19:12	6.55	15.9	2491	67	5.2	.23	2477 ± 9	2680 ± 9	
	Sl.6-2	19:31	6.75	15.6	1665	211	-ve	.02	573 ± 1	566 ± 19	✓
	G.1-1	19:49	6.97	15.0	4605	155	0.7	.02	1846 ± 4	1866 ± 8	
	G.2-1	20:06	6.82	15.2	5762	194	8.0	1.8	1903 ± 4	1847 ± 13	
	G.3-1	20:24	7.95	13.6	10k	190	27	.46	2396 ± 5	2404 ± 5	
	G.4-1	20:42	6.79	15.3	4746	177	13	.35	1763 ± 4	1876 ± 10	
	G.5-1	21:00	6.72	15.5	2987	109	0.3	.01	1833 ± 5	1887 ± 10	
	Sl.2-1	21:20	7.04	14.8	1763	208	1.2	.11	573 ± 1	579 ± 24	
	G.6-1	21:41	6.69	15.9	30	0.7	1.3	5.1	2485 ± 100	2383 ± 275	
	G.7-1	21:59	6.32	6773	2842	259	1.9	.03	2004 ± 6	1976 ± 9	

④
↑

⑤
↓

° became unstable ←

13/4/99

Setup.

SS.

99-11

$I_{P_{epx.}} = 2.9 \text{ nA}$ on epoxy

($I_{P_{zirc}} = 3.8 \text{ nA}$)

Spot v. large.

Cond. ~~5972~~ v.

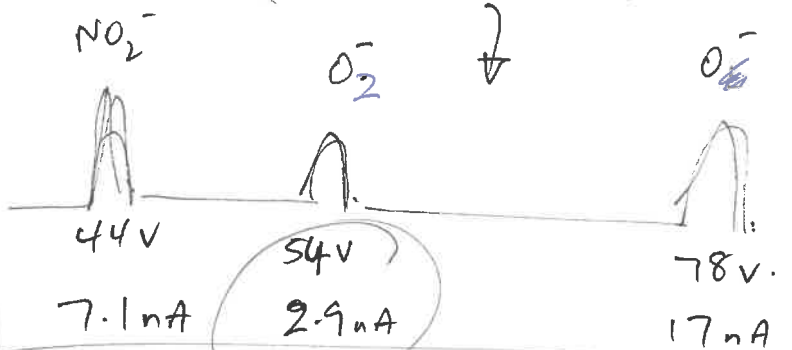
~~5961~~ $\uparrow 3$ clicks. good.

$\uparrow 2$ v. good.

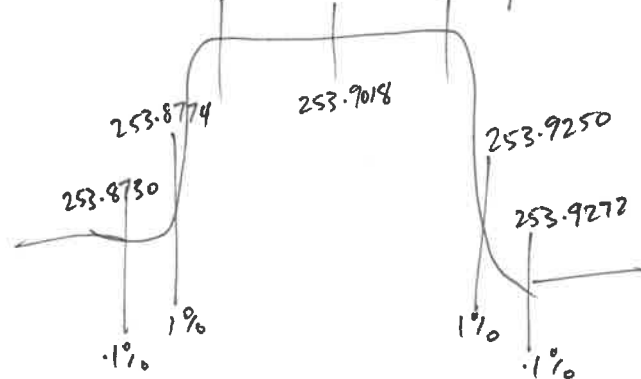
New Cond. v. = 5957 v.

dao 4 ~~72~~ 72
dao 2 ~~52~~ 52

(Primary on epoxy)



Centroids	206 v
196 195.6768	207 ✓
195.6747	208 ✓
253.9029	206 v
2303.6653	
253.8940	
253.9095	



Flat top = 0.0155

Base = 0.0476

H. tail = 0.0177

L. tail = 0.0210

FT/B = 0.33

HT/LT = 0.84

M/ΔM = 254/0.0476 = 5336.