

Follow on from ~~98/08~~ 96-778.

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
17/1/99	98-69	C. Adam	IRF + AP

  

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 <sup>7</sup>	30/10 <sup>7</sup>	10	5	3	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 = <sup>32</sup> nanosecs  
 actual 196-204 = 8.169      actual 204-bkg = 0.044      expected resolution = >4200  
 actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = .....  
 Primary = <sup>2</sup> nA    PESABM = <sup>26</sup> pA    actual Primary : PESABM (≈ 50:1) = .....  
 Raster time (mins): <sup>2</sup>    Raster aperture (microns): <sup>200</sup>    No. of scans: <sup>5</sup>

Comments: 1° stable. NB runtable differs from 9/1/99

A = R21180      Astd = 10      %error = 1.18 - no exclusions, no reject<sup>ns</sup>  
 (Actual slope = 2.07, %error = 1.18)

A1-13 analysed on 9/1/99 - unstable ?      NA = 41

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	sl.869.22-1	21:08	6.03	9.3	904	220	1.7	0.15	571 ± 1	569 ± 63	✓
	sl.22-2	21:21	5.89	9.4	894	229	0.1	0.009	581 ± 1	601 ± 52	✓
	A.14-1	21:35	6.27	9.1	104	50	0.2	0.13	272 ± INF	438 ± INF	✓
	A.15-1	21:49	6.08	9.1	1860	192	0.5	0.02	1272 ± 3	1307 ± 29	✓
	sl.22-3	22:02	6.16	8.5	930	224	2.2	0.18	586 ± 1	354 ± 68	✓
	A.16-1	22:17	6.11	9.1	173	88	ve	-	278 ± 1	266 ± 140	✓
	A.17-1	22:32	6.02	9.3	45	24	2.2	2.96	260 ± 4	0	✓
	A.18-1	22:46	6.12	9.1	264	147	0.3	0.11	249	283	196-204 ok. 7-6 = .99788 8-k.1.99788
adjusted 206-207-208 scans	A.19-1	23:36	6.10	8.7	266	132	1.9	0.43	292 ± 1	0	✓
	sl.21-1	23:52	6.20	9.2	965	216	ve	-	579 ± 1	594 ± 51	✓
	A.20-1	24:06	6.26	8.7	621	152	1.6	0.22	538 ± 2	446 ± 100	✓

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?

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?
	A21-1	24:19	6.17	9.0	1109	87	-ve	-	1572 ± 7	1275 ± 36	✓
<i>γ° dropped last scan → O.K.</i>	A22-1	24:32	6.20	9.1	2295	145	0.9	0.03	1841 ± 6	1929 ± 20	✓
	A23-1	24:47	6.25	8.9	377	48	0.0	-	980 ± 5	1141 ± 65	✓
	A24-1	1:01	5.91	8.6	73	40	-ve	-	295 ± 1	705 ± 181	✓
	A25-1	1:15	6.07	8.8	225	243	1.2	0.32	138 ± 1	0	✓
	sl 21-2	1:30	6.04	9.0	926	233	2.4	0.20	571 ± 1	341 ± 85	✓
	A.26-1	1:44	6.21	9.1	178	96	1.3	0.63	244 ± 1	141 ± ?	✓
	A.27-1	1:58	6.13	9.1	593	318	2.6	0.36	257 ± 1	167 ± 131	✓
	A.28-1	2:12	6.14	9.0	1159	243	1.6	0.11	646 ± 1	697 ± 50	✓
	A.29-1	2:26	6.11	8.9	941	383	3.6	0.30	348 ± 1	270 ± 85	✓
<i>a few Ortec failures mainly 248 → O.K.</i>	A.30-1	2:39	6.29	9.3	227	111	1.4	0.55	253 ± 2	-	✓
	A.31-1	2:54	6.24	9.0	234	126	1.5	0.41	244 ± 1	0	✓
	sl 21-3	3:08	6.18	9.1	971	222	1.1	0.09	573 ± 1	544 ± 59	✓
<i>lot of Ortec failures mainly 238, 248 + 206 → O.K.</i>	A.32-1	3:20	6.07	9.2	226	117	1.0	0.35	271 ± 1	229 ± ?	✓
	A.33-1	3:33	6.55	8.9	158	78	1.4	0.85	233 ± 1	232 ±	✓
	A.34-1	3:47	6.19	8.9	361	181	0.9	0.22	272 ± 1	216 ± 179	✓
<i>lot of Ortec failures mainly 206, 238, 248 → O.K.</i>	A.35-1	4:00	5.94	9.1	1541	294	1.7	0.08	775 ± 2	836 ± 41	✓
<i>mainly 238, 248 &amp; 254 → O.K.</i>	A.36-1	4:13	6.05	9.0	368	192	4.0	0.65	276 ± 1	0	✓
	A.37-1	4:27	6.09	9.3	631	48	0.7	0.08	1638 ± 9	1697 ± 47	✓
	sl 21-4	4:40	6.00	9.6	968	228	0.3	0.02	583	533	✓
	A.38-1	4:54	6.31	8.7	961	110	2.6	0.22	1074 ± 4	994 ± 55	✓
<i>last scan dropped. → 1.8 O.K.</i>	A.39-1	5:07	6.23	8.8	262	128	1.1	0.34	276 ± 1	196 ± 183	✓
	A.40-1	5:21	5.94	8.9	33	42	-ve	-	127 ± 1	613 ± 286	✓
	A.41-1	5:35	5.93	9.0	48	40	0.1	0.12	245 ± 1	725 ± 212	7.65-99918 8.6-1.99918
<i>adjusted 7/6 &amp; 8/6. →</i>	A.42-1	5:49	5.96	8.9	232	144	1.7	0.52	248 ± 1	257 ± 247	✓

*10 v. stable*

*10*

*10 very stable*

