

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
22/6/99	99-05	McN/JD	McN/AR

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 ²⁰	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 =^{8.165}..... actual 204-bkg =^{0.045}..... expected resolution = >4200
 actual 206-207 =^{1.000}..... actual 206-208 =^{1.999}..... actual resolution =⁵²⁰⁵.....
 EPOXY 2.2 nA
 Primary =^{2.9}..... nA PESABM =³⁶..... pA actual Primary : PESABM (≈ 50:1) =
 Raster time (mins):¹..... Raster aperture (microns):¹²⁰..... No. of scans:⁶.....

Comments:

A = RM0237
 B = RM0245

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. 1-1	10:40	6.86	11.8	1306	220	1.1	.10	572 ± 1	517 ± 33	✓
	sl. 1-2	11:02	7.05	11.4	1308	217	1.5	.14	561 ± 1	546 ± 31	✓
	A. 1-1	11:22	6.62	12.0	478	219	4.4	.97	235 ± 1	132 ± ?	✓
	A. 3-1	11:40	6.97	11.6	669	257	1.2	-.21	250 ± 1	128 ± 67	✓
	sl. 1-3	11:58	6.82	12.1	1360	228	1.5	.13	572 ± 1	551 ± 30	✓
	A. 4-1	12:16	7.25	11.5	1008	343	2.0	.26	255 ± 1	210 ± 51	✓
	A. 6-1	12:34	7.00	11.3	927	360	1.0	.12	252 ± 1	232 ± 45	✓
	A. 6-2	12:52	6.99	12.0	669	240	1.6	.30	258 ± 1	147 ± 74	✓
	sl. 1-4	13:10	6.87	12.0	1322	221	1.6	-.14	565 ± 1	553 ± 31	✓
	A. 7-1	13:28	6.94	12.1	306	113	-	.18	254 ± .4	295 ± 52	✓
	A. 10-1	13:48	6.51	13.8	365	146	1.8	.55	247 ± 1	163 ± 104	✓

8.165

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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?

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?
	A11-1	14:07	6.77	14.8	1212	396	4.0	.45	251±.3	132±54	206-208 -001 off
	A12-1	14:26	6.41	13.4	352	140	0.4	.14	242±1	221±90	✓
	S1.1-5	14:44	6.84	13.7	1510	225	1.0	.09	566±1	571±28	✓
	A13-1	15:04	6.92	13.7	725	233	0.8	.14	259±.4	322±46	✓
A	B1-1	15:23	6.95	14.8	540	174	-	-	236±.3	274±40	✓
B	B3-1	15:41	7.14	13.7	642	201	3.3	.76	242±1	310±87	✓
	B4-1	16:00	6.89	13.6	278	95	-	-	247±.4	327±55	✓
	S1.1-6	16:21	6.94	13.8	1544	215	0.2	.02	574±1	610±22	✓
	B5-1	16:41	6.69	13.9	701	252	2.5	.45	251±.4	173±64	✓
	← B6-1	17:00	6.89	13.4	542	183	1.0	.26	255±1	158±77	✓
	B7-1	17:18	6.91	13.3	432	143	0.9	.27	259±1	86±116	✓
	B8-1	17:37	6.86	12.8	629	234	2.5	.49	245±1	125±82	✓
	S1.3-1	17:55	6.81	13.6	1523	229	-	-	570±1	604±21	✓
	B9-1	18:15	6.95	13.5	220	70	-	-	263±1	337±61	✓
	B10-1	18:33	6.66	13.3	198	82	1.2	.53	234±1	8.6±164	✓
	B11-1	18:51	6.61	14.2	539	202	0.3	.07	247±1	317±97	✓
	B12-1	19:09	7.10	12.8	627	240	0.8	.16	228±.4	270±63	✓
	S1.3-2	19:27	6.63	13.3	1463	244	1.5	.11	571±1	496±32	✓
	B13-1	19:46	6.61	12.7	453	185	0.8	.19	251±1	169±104	✓
	B14-1	20:04	6.84	14.3	659	215	0.3	.06	254±.4	299±48	✓
	B15-1	20:23	6.56	13.6	283	112	3.1	1.2	245±1	47±208	✓
	B16-1	20:42	6.94	14.0	767	226	0.3	.07	253±.4	229±55	✓
	S1.3-3	21:01	6.81	13.4	1509	236	1.1	.09	560±1	520±30	✓
	B17-1	21:20	6.43	14.8	380	147	2.1	.66	248±1	96±123	✓
	B18-1	21:39	6.71	13.9	202	71	2.2	1.03	252±1	0±0	✓

mislabeled as B 56-1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	B19-1	21:57	6.59	13.0	265	113	1.0	.41	240±1	68±156	✓
	B20-1	22:16	6.95	14.2	288	91	0.7	.34	251±1	148±128	✓
	S13-4	22:35	6.77	13.8	1527	233	0.4	.03	566±1	579±24	✓
	B21-1	22:53	6.69	14.5	255	89	0.7	.35	248±2	188±223	✓
	B22-1	23:15	6.62	13.6	185	73	0.4	.21	243±1	0±0	✓
	B23-1	23:31	6.80	13.7	297	100	1.0	.43	258±1	54±146	✓
	B24-1	23:48	6.94	13.9	654	208	1.6	.33	255±1	153±72	✓
	S13-5	00:07	6.68	13.9	1495	236	0.2	.01	563±1	554±24	✓
	B25-1	00:26	7.16	13.4	365	110	1.4	.57	255±1	25±135	✓
	B26-1	00:44	6.95	13.8	291	93	0.8	.36	256±1	153±122	✓
	B27-1	1:02	6.91	13.4	523	184	0.7	.18	242±1	131±82	✓
	B28-1	1:20	6.81	14.0	256	87	1.1	.56	250±1	12±164	✓
	S13-6	1:38	6.94	13.7	1606	219	1.2	.10	591±1	513±27	✓
	A14-1	1:56	6.79	13.6	947	326	8.4	1.09	254±.4	791±42	✓
	A15-1	2:16	6.81	12.8	579	216	3.8	.78	248±1	273±95	✓
	A22-1	2:34	6.74	13.8	952	360	4.3	.57	236±.4	333±56	✓
	A16-1	2:52	7.00	13.5	765	250	2.9	.52	249±1	93±79	✓
	S13-7	3:10	6.89	12.9	1455	225	1.4	.12	561±1	482±29	✓
	A20-1	3:29	6.60	13.4	266	100	0.0	.00	259±.4	457±54	✓
	A19-1	3:46	6.98	13.0	832	289	0.9	.15	247±1	289±71	✓
	A18-1	4:04	6.88	13.7	133	43	1.8	1.38	260±2	0±0	✓
	A17-1	4:21	7.00	13.2	667	221	1.1	.22	252±.4	207±57	✓
	S13-8	4:39	6.85	13.8	1489	218	1.2	.11	569±1	520±28	✓
	A21-1	4:57	7.08	13.3	1401	441	1.0	.10	256±.4	218±52	✓
	A23-1	5:17	6.75	14.2	254	88	0.1	.05	251±inf	288±inf	✓

B
A

