

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

Date: 24/1/97      UWA Mount No.: 97-36      Whose sample?: Yumin      Operator(s): IF + YQ

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

Precambrian    Count time (secs):    2    10    10    ~~10~~<sup>20</sup>    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 = 0.040 amu      Dead-time = 32 nanosecs

actual 196-204 = 8.170      actual 204-bkg = 0.045      expected resolution = >4200

actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 4990

Primary = 3.3 nA    PESABM = 40 pA    actual Primary : PESABM (= 50:1) = 82

Raster time (mins): 1      Raster aperture (microns): 120 μ      No. of scans: 5

*Sensitivity = 14.6*

Comments:      1 std = 5    % = 1.99 (exclude SL7-1, messy. <sup>regression poor</sup> ~~data off~~)

(Actual slope = 2.27, % = 1.85)

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238    207/206	Corr.
	sl. 6-1	11:18	6.26	13.9	1584	—	1.8	.02	—    631	208
	sl. 6-2	11:33	6.44	13.7	1674	218	0.7	.11	566    667	208
	UA.39-1	11:52	6.52	10.5	2074	540	4.3	0.24	363    358	204
	UA.40-1	12:19	6.83	9.7	9335	2154	95.3	1.3	379    362	204
	UA.41-1	12:39	6.32	13.9	2726	610	31.	1.6	344    275	204
	sl. 6-3	12:54	6.27	14.1	1582	222	-ve	.05	555    548	208
	UA.42-1	13:11	6.41	13.5	1391	310	1.8	.19	345    290	204
	UA.43-1	13:26	6.30	13.4	1396	333	1.8	.17	345    365	204
	UA.45-1	13:42	6.65	12.8	5476	1082	26.	.73	365    332	204
	A.44-1	13:58	6.60	13.6	6355	1233	72.	1.8	353    305	204
	sl. 6-4	14:13	6.37	13.8	1647	219	0.8	.03	570    546	208

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	Corr.
	A.442	14:29	6.37	13.8	2175	478	28.	1.8	345	493	204
	A.46-1	14:45	6.57	12.8	5337	1109	18.	.48	361	307	204
	A.37-1	15:01	6.52	13.6	4315	892	10.	.37	349	316	204
	A.36-1	15:17	6.57	12.7	4928	1044	24.	.71	357	279	204
	sl.6-5	15:33	6.13	14.5	1579	229	0.9	.03	562	542	208
	A.1-1	15:49	6.52	13.7	7062	1496	2.3	.05	342	365	204
	A.2-1	16:04	6.53	14.1	4075	828	26.	1.0	341	348	204
	A.4-1	16:20	6.72	13.8	8574	1521	42.	.83	364	350	204
	A.5-1	16:35	6.62	14.2	4351	847	26.	.99	339	327	204
	sl.6-6	16:50	6.37	13.9	1678	222	0.1	.06	570	595	208
	A.6-1	17:06	6.57	14.1	2447	498	1.2	.08	337	321	204
	A.7-1	17:21	6.56	13.7	5147	1063	9.3	.29	342	328	204
	A.8-1	17:37	6.44	13.7	4392	950	6.5	.22	344	338	204
	A.9-1	17:53	6.81	13.1	9535	1667	78.	1.4	373	416	204
	sl.6-7	18:08	6.26	14.5	1628	219	2.8	.03	562	583	208
	A10-1	18:23	6.54	13.2	10987	2250	24.	.23	361	327±11	208
	A11-1	18:44	6.52	13.5	3210	714	2.3	.14	329	337±23	204
	A12-1	19:02	6.8	10.2	104	38.	0.6	4.5	224±2	0	208
	S17-1	20:24	6.47	8.7	976	219	1.6	.08	514±1	549±32	208
	S17-2	20:46	6.48	10.9	1382	221	1.0	.07	566±1	579±26	208
	A13-1	21:05	6.81	11.1	2138	539	162	11.6	271±04	140±65	208
	A17-1	21:25	6.61	10.8	3417	890	36	1.3	332	341±25	208
	A20-1	21:49	6.4	10.7	3056	877	2.3	—	342	374±18	—
	A29-1	22:01	6.52	10.4	6579	1248	5.3	.03	348	374±17	208
	A48-1	22:19	6.35	10.3	4782	1456	23	.56	341	410	208

(20)

P.B

3.3

lost del scan 4:206→254  
del scan 5: A  
IF come back change due P. 100554.

(9)

1° stable at 2.8

Vary

2.8

(28)

Mount/sample No: 97-36 B

Date: 25/1/97

Page No: .....

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma)		Corr.
									206/238	207/206	

(10)	SL7-3	22:38	<del>6.05</del> 11.7	1259	242	1.9	107	550	595	208	
Sample JCHGL-18	B1-1	23:10	6.09	10.3	486	271	1.2	103	215 ± 0.4	297 ± 7	208
	B2-1	23:28	6.21	10.7	478	255	13.3	2.9	199	364 ± 88	208
	B3-1	23:43	6.4	10.9	230	113	9.4	4.1	189	0	208
	B4-1	23:59	6.48	10.4	536	242	4.9	1.3	214	0	208
	SL7-4	0:16	6.38	10.6	1305	222	-0.3	108	578	610 ± 27	208
	B4-2	0:32	6.21	10.5	572	294	2.8	108	215	304 ± 62	208
	B5-1	0:48	6.81	10.6	143	79	4.2	5.1	143 ± 1	139 ± 139	208
	B6-1	1:03	6.45	9.98	646	307	1.4	✓	218	278	✓
	B8-1	1:21	6.4	10.1	471	229	5.5	127	211	401 ± 63	208
	SL7-5	1:37	6.58	9.1	1113	212	2.9	106	546 ± 1	623 ± 29	208
	B9-1	1:55	6.54	8.8	345	178	2.7	✓	218	370 ± 54	✓
(10)	B11-1	2:13	6.36	9.2	508	267	6.7	1.1	220	0	208
	B12-1	2:30	6.55	9.4	809	380	1.7	0.07	222	282 ± 57	208
	B14-1	2:46	6.45	9.8	516	278	9.9	2.3	192	0	208
	B15-1	3:02	6.52	10.3	566	271	1.0	1.2	202	325	208
(11)	SL7-6	3:18	8.27	10.8	1204	228	1.5	109	536	624	208
	SL8-1	3:34	6.39	10.1	1178	220	1.4	105	547	625	208
	B16-1	3:50	6.43	10.6	732	331	1.9	12	219	347 ± 56	208
	B21-1	4:11	6.4	10.4	727	340	3	✓	218	319 ± 38	✓
	B24-1	4:29	6.45	10.7	932	394	2.1	✓	218	303	✓
	B28-1	4:49	6.36	10.6	660	309	0.11	0.1	218	293 ± 41	208
(10)	B29-1	5:05	6.06	10.5	352	200	0.6	✓	212	326	✓
	SL8-2	5:21	6.23	10.8	1241	232	1.1	102	558	628	208
	B31-1	5:42	6.38	11.5	525	225	1.7	✓	217	331	✓

