

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
7/4/99	98-91	Yumme	McN + YQ

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* 10/10*	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 = 5216
 Primary = ^{EPOXY → 3.2}2R → 4.2 nA PESABM = 50 pA actual Primary : PESABM (= 50:1) = 84
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments:

A = SH SHQ-1
 B = YCY-18
 C = JCHGL-27

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	sl.6-1	10:15	6.45	18.7	2030	220	0.6	.05	572 ± 1	509 ± 30	✓
	sl.5-1	10:33	6.49	18.6	1993	220	0.4	.04	558 ± 1	629 ± 29	✓
	A.1-1	10:50	6.91	18.1	1173	439	4.4	.80	143 ± 1	142 ± 82	✓
	sl.5-2	11:07	6.61	18.6	2124	216	0.2	.01	570 ± 1	541 ± 27	✓
	A.2-1	11:24	6.74	17.7	2470	1004	13.1	1.02	144 ± 1	193 ± 54	✓
	A.3-1	11:40	7.08	17.4	3.4K	1188	0.2	.02	148 ± 1	155 ± 27	✓
	A.4-1	11:58	6.65	17.9	1864	810	0.8	.08	141 ± 1	163 ± 43	✓
	sl.5-3	12:14	6.62	18.3	2024	210	0.0	.02	563 ± 1	574 ± 27	✓
	A.4-2				aborted				high 204		
	A.5-1	12:36	6.66	18.0	1750	736	0.3	.03	144 ± 1	161 ± 38	✓
	A.6-1	12:52	6.53	18.1	1402	629	0.3	.04	142 ± 1	106 ± 46	✓

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?
	A.8-1	13:09	6.88	17.2	1558	619	0.3	.03	145 ± 1	183 ± 51	✓
	sl.1-1	13:25	6.45	18.4	1915	214	0.6	.05	563 ± 1	551 ± 35	✓
	A.9-1	13:43	6.65	17.4	1453	638	1.5	.19	144 ± 1	56 ± 47	✓
	A.12-1	13:59	6.65	17.4	2341	1026	0.5	.04	143 ± 1	145 ± 34	✓
	A.13-1	14:16	6.90	17.3	5.3K	1965	15.7	.61	150 ± 1	128 ± 32	✓
	sl.1-2	14:33	6.80	17.8	2063	202	0.3	.03	566 ± 1	527 ± 28	✓
	A.15-1	14:52	6.70	17.9	179.7	747	2.0	.21	143 ± 1	108 ± 45	✓
	A.16-1	15:09	6.79	16.7	1658	695	1.4	.15	147 ± 1	148 ± 53	✓
	A.18-1	15:26	6.56	17.5	2354	1094	0.8	.06	140 ± 1	107 ± 33	✓
	sl.1-3	15:43	6.53	18.1	1889	213	0.6	.05	549 ± 1	581 ± 33	✓
	A.19-1	16:01	6.65	18.2	2119	880	2.0	.18	144 ± 1	131 ± 46	✓
	A.19-2	16:22	7.28	15.4	4248	1488	5.7	.28	155	163 ± 30	✓
	A22-1	16:38	6.75	17.8	1994	817	0.7	.06	143	82	✓
	A26-1	16:56	6.55	16.7	2245	1101	0.5	✓	140	188	✓
	sl.1-4	17:15	6.50	18.8	1969	209	0.3	✓	568	534	✓
	B1-1	17:36	6.59	18.9	1849	41	0.4	.03	2265	2372	✓
	B2-1	17:53	6.43	18.4	615	300	0.2	.07	129	153	✓
	B2-2	18:10	6.71	18.5	623	266	0.2	.05	135	148	✓
	B1a	18:27	6.55	18.5	287	102	0.2	.45	172	42	✓
	sl.1-5	18:43	6.55	18.7	2010	209	1.4	.1	568	521	✓
	B4-1	19:04	6.39	18.8	358	5.9	0.2	.07	3130	2761	✓
	B4-2	19:21	6.86	17.9	731	14.9	0.6	.1	2292	2382	✓
	B6-1	19:38	6.38	18.9	3963	106	1.1	.5	2097	2499	✓
	B12-1	19:57	6.31	18.8	178	5.0	0.5	.3	2074	2316	✓
	B12a	20:14	6.77	18.7	158	52	0.3	.37	169	94	✓

Rejection over-ride Sample/ Std ID Time - printout UO/U Kcps 196 Kcps 206 cps U ppm ²⁰⁴Pb ppb f₂₀₆ % Age ±1σ (Ma) 206/238 207/206 Offsets OK?

	B13-1	20:31	6.64	19.2	4970	119	0.6	0.02	2051	2273	✓
	S12-1	20:47	6.65	18.8	2147	209	0.9	0.01	577	555	✓
	B14-1	21:06	6.65	19.2	73	25	0.6	1.5	162	0	✓
	B15-1	21:25	6.48	19.5	1069	26	0.2	0.02	2126	2116	204 ✓
	B16-1	21:42	6.73	18.9	547	229	0	✓	137	135	✓
	B16a	22:02	6.45	19.9	178	30	-0.5	✓	353	1388	✓
	S12-2	22:18	6.51	19.7	2065	211	0	0.001	561	651	200
	B18-1	22:36	6.48	19.6	99.5	36	0.7	.7	167	0	208
	B18-2	22:52	6.32	18.6	368	149	-0.8	.52	168	0	208
	B17-1	23:10	6.48	19	260	16	0.8	1.3	954	2169	208
U S12-3 → S12-3	S12-3	23:28	6.47	20.1	2099	216	0.2	0.04	557	659	208
n=12	B10-1	23:47	6.69	19.3	155	52	-0.5	.76	163	0	208
	B10-2	0:03	6.62	19.7	336	108	-0.2	.38	174	142	208
	B10a-1	0:21	7.23	15.4	336	82	1.2	1.7	1794	2348	208
	B10b-1	0:39	6.35	19.9	1751	758	1.6	.29	146	111	208
	S12-4	0:56	6.17	21.3	2009	225	-0.6	0.0	559	533	208
	B7-1	1:13	6.39	20.8	4.1	1.6	0.5	6.2	139	0	208
	B7a-1	1:30	7.32	20.2	1421	331	1.2	1.7	173	0	208
	B7a-2	1:47	6.58	RR7	722	248	0.4	.1	175	197	204
	B12b-1	2:05	6.45	20.2	293	7.3	0.6	.36	2035	1983	204
	S12-5	2:23	6.47	20.7	2201	215	1.0	0.01	569	561	208
C	C5-1	2:49	6.60	20.2	48 48	21 21	-0.2	1.8 1.8	125	0	208
	C4-1	3:06	6.7	20.3	633	202	0.9	.3	164	258	204
	C3-1	3:23	6.65	20.2	444	178	0.2	2.5	131	0	208
	C3-2	3:38	6.45	19.9	298	136	0.3	.19	132	✓	208
	C1-1	3:55	6.57	18.5	122	54	0	.35	138	365	208

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?
	C2-1	4:19	9.56	392	13153	39.1K	29.2	.02	355	179	204
9892 X Not good	S14-1	4:39	6.37	18.6	1774	214	-0.1	.02	537	539	208
	S14-2	4:56	6.71	20.3	2233	202	0.4	.04	558	504	204
X	S14-3	5:26	6.33	19.8	1912	223	-0.3	/	535	512	/
	S16-1	5:43	6.65	20.5	2230	208	0.6	.03	553	582	208
	A18a-1	5:59	6.7	19.99	4455	80	3.8	.14	2476	2488	204
	A18-1	6:16	6.62	19.1	3173	60	0.6	.03	2538	2468	204
	A19-1	6:23	6.71	19.7	5070	93	0.1	.007	2450	2506	204
	A21-1	6:47	6.98	16.8	6182	113	1.1	.03	2446	2462	204
	S16-2	7:04	6.54	20.7	2176	211	-0.1	/	555	575	/
	A20-1	7:21	6.71	20.	3449	63	1.1	.05	2428	2434	204
	A20a	7:37	6.57	20.	1044	201	0.4	.006	2435	2533	204

n = 17
 Error = 1.22
 slope 2.00 Actual slope = 2.14