

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

Date: 9/5/98 UWA Mount No.: 98-10 Whose sample?: Frank B Operator(s): McW + FB

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Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b>	Count time (secs):	2	10	10	<sup>20</sup> 10	<del>30</del> 10	5	5	2
<b>Phanerozoic*</b>	Delay time (secs):	<del>7</del> 8	3	1	2	1	3	2	2

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040<sup>5</sup> amu      Dead-time = 3.2 nanosecs  
 actual 196-204 = 8.166      actual 204-bkg = 0.045      expected resolution = >4200  
 actual 206-207 = 1.001      actual 206-208 = 2.001      actual resolution = 5439

Primary = 3.2 nA    PESABM = 36 pA    actual Primary : PESABM (≈ 50:1) = \_\_\_\_\_  
 Raster time (mins): 1    Raster aperture (microns): 100    No. of scans: 6

Comments: A = G563-5  
 \* 1° now ~ 4 nA; checked peak positions + slope (all OK)

98-10. 9/5/98. Frank

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)	196-204 Corr	206-207
									206/238    207/206		
	sl. 8-1	10:11	6.92	11.7	1295	220	-1.4	/	572 ± 1    522 ± 34	8.166	1.001
	sl. 8-2	10:27	6.88	12.4	1336	217	1.6	.02	576 ± 1    556 ± 33	- " -	
	A. 1-1	10:51	6.78	12.7	399	99.6	-0.4	.08	387 ± 1    453 ± 81	- " -	
	A. 1-2	11:06	6.71	12.6	274	70.9	-1.2	/	388 ± 1    250 ± 82	- " -	
	sl. 8-3	11:22	6.94	12.4	1427	217	-0.3	/	595 ± 1    527 ± 32	- " -	
	A. 2-1	11:40	6.87	13.0	398	94.2	16.2	4.83	366 ± 3    663 ± 224	- " -	
	A. 3-1	11:55	6.92	12.6	552	128.2	-0.7	/	387 ± 1    336 ± 58	- " -	
	Arc dropped out → restarted *										
	sl. 8-4	13:03	6.72	17.1	1743	216	0.5	.005	585 ± 1    573 ± 29	8.166	1.000
	sl. 8-5	13:18	6.83	16.0	1735	218	-0.2	.03	588 ± 1    542 ± 30	- " -	
	A. 4-1	13:34	7.02	15.2	1521	283	10.0	.67	591 ± 1    360 ± 45	- " -	

delete Primary of 26  
 Last off 26

PD 1 ✓

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Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	196-204 Corr= 206-207
	A.4-2	13:51	6.80	15.4	2397	386	17.6	19.1	397±1	—	8.166 1.000
	sl.7-1	14:09	6.69	16.6	1641	213	2.4	.008	584±1	542±30	—
	A.6-1	14:25	6.72	16.0	1297	265	12.0	1.28	380±1	451±42	—
	A.7-1	14:41	6.98	15.0	676	131	1.6	.36	384±1	195±84	—
	A.8-1	14:58	6.73	15.9	393	78.7	2.6	.11	393±1	473±78	—
	A.8-2	15:13	6.92	15.8	489	98.9	-1.5	—	378±1	238±59	—
	sl.7-2	15:33	6.92	16.3	1642	222	2.4	.04	584±1	611±28	—
	A.10-1	15:51	6.92	15.2	567	143	0.8	.04	385±1	335±53	—
	A.11-1	16:08	6.92	13.7	831	108.5	117	23.9	509±1	3174±16	—
	A.12-1	16:25	6.92	15.1	629	150.6	-0.2	—	378±1	460±48	—
	sl.7-3	16:42	6.92	15.2	1549	219	0.7	.04	587±1	566±30	—
	A.13-1	17:00	6.92	15.2	248	56.6	0.0	—	385±1	255±82	—
	A.14-1	17:19	6.92	15.1	449	97.3	0.6	1.7	393±1	221±61	—
	A.14-2	17:35	6.92	14.3	524	121	1.2	1.6	384±1	451±53	—
	sl.7-4	17:51	6.92	15.3	1498	225	1.0	.08	587±1	631±30	—
	A.15-1	18:08	6.92	14.3	307	82	-2.4	—	378±1	390±70	—
	A.17-1	18:29	6.92	14.3	1010	207	0.5	-0.1	379±1	426±106	—
	A.18-1	18:45	6.92	13.3	1110	89	-2.0	—	1024±4	973±30	—
	sl.7-5	19:01	6.92	14.6	1573	216	3.5	2.9	593±1	532±30	—
	A.19-1	19:18	6.92	14.3	532	74	1.3	3.2	582±2	577±50	—
	A.20-1	19:36	6.92	15.1	1207	245	31.9	32.3	399±1	1196±26	—
	A.21-1	19:52	6.92	14.6	301	69.3	0.3	1.1	388±1	259±74	—
	sl.7-6	20:09	6.92	14.8	1509	220	4.5	.02	574±1	613±29	—
	A.22-1	20:25	6.92	14.1	854	205	0.6	.09	378±1	456±41	—
	A.23-1	20:41	6.92	13.3	1154	261	34.2	37.3	397±1	1306±26	—

delete last 2 scans?

delete 1st 2 scans

high 204!

PD 2 ✓

PD 3 ✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f <sup>206</sup> %	Age ±1σ (Ma)		196-20 Corr. 206-20
									206/238	207/206	
	A.24-1	21:00	6.92	13.3	327	79.4	0.3	.14	388±1	386±68	8.166
	sl. 7-7	21:16	6.92	14.3	1356	228	7.5	6.1	584±1	587±32	1.000
	A.25-1	21:33	6.92	13.7	343	76.2	-0.8	✓	370±1	409±66	-"-
	A.25-2	21:47	6.92	13.7	460	109	7.4	10.4	392±1	741±50	-"-
	A.26-1	22:03	6.92	13.5	653	151	5.6	6.1	386±1	161±49	-"-
	sl. 7-8	22:19	6.92	14.2	1419	225	0.4	.004	578±1	615±30	-"-
	A.27-1	22:36	6.92	14.2	213	31.9	-0.2	✓	609±3	506±80	-"-
	A.28-1	22:52	6.92	13.2	346	75.5	0.9	1.1	378±1	452±65	-"-
	A.29-1	23:07	6.92	12.2	535	40.1	0.7	.03	1130±6	1142±40	-"-
	sl. 7-9	23:23	6.92	14.1	1453	213	2.5	.04	583±1	571±30	-"-
	A.30-1	23:39	6.92	14.0	448	102	1.1	.08	385±1	305±60	-"-
	A.30-2	23:54	6.92	12.7	192	51	-0.8	✓	383±1	373±88	-"-
	A.31-1	00:10	6.92	13.8	578	140	0.8	.15	379±1	441±51	-"-
	sl. 7-10	00:29	6.92	13.5	1368	221	-0.3	✓	594±1	528±32	-"-
	A.32-1	00:45	6.92	13.2	775	198	0.5	1.1	377±1	399±44	-"-
	A.33-1	01:01	6.92	13.1	635	162	3.1	5.6	379±1	365±50	-"-
	A.33-2	01:16	6.92	13.2	563	145	0.6	1.1	381±1	406±52	-"-
	sl. 7-11	01:32	6.92	13.7	1348	225	0.1	.01	587±1	626±31	-"-
	A.34-1	01:48	6.92	11.7	335	84.7	3.9	11.9	391±1	716±59	-"-
	A.35-1	02:04	6.92	12.6	566	144	1.9	.07	375±1	360±53	-"-
	A.35-2	02:19	6.92	12.5	471	137	-0.7	✓	368±1	331±58	-"-
	A.36-1	02:35	6.92	13.0	565	126	6.7	12.8	378±1	736±46	-"-
	sl. 7-12	02:51	6.92	12.4	1407	215	1.8	.002	621±1	520±32	-"-
	A.36-2	03:07	6.92	11.5	324	90.5	0.5	1.7	384±1	277±71	-"-
	A.37-1	03:23	6.92	13.0	413	100	0.5	2.1	384±1	405±60	-"-

PD 4

?omit

PD 5



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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238    207/206		196-20 Corr. 206-20
	A.38-1	03:41	6.92	13.0	265	75.8	0.2	.86	377±1	296±78	8.166 1.000
	sl.6-1	03:57	6.92	13.2	1332	212	2.0	1.8	572±1	525±32	-"-
	A.40-1	04:13	6.92	12.9	922	213	22.4	28.6	403±1	1193±30	-"-
	A.41-1	04:29	6.92	12.6	479	128	-0.2	/	380±1	333±58	-"-
	A.41-2	04:45	6.92	12.3	845	215	1.0	2.3	379±1	480±41	-"-
	sl.6-2	05:01	6.92	12.6	1335	212	2.5	2.1	591±1	527±32	-"-
	A.42-1	05:17	6.92	12.4	1114	273	24.5	25.4	380±1	819±31	-"-
	A.43-1	05:32	6.92	12.4	486	131	3.1	6.8	385±1	656±51	-"-
	A.45-1	05:48	6.92	11.8	1284	206	2.7	2.3	609±1	565±32	-"-
	sl.6-3	06:03	6.92	12.0	1365	214	0.2	.18	600±1	556±32	-"-
	A.46-1	06:21	6.92	12.5	309	77.5	0.2	.57	384±1	340±71	-"-
	A.47-1	06:37	6.92	12.6	284	77.7	1.2	1.2	366±1	396±73	-"-
	A.49-1	06:54	6.92	12.5	268	69.3	-1.3	/	391±1	475±72	-"-
	sl.6-4	07:09	6.92	12.0	1342	214	1.4	1.1	594±1	612±31	-"-
	A.52-1	07:25	6.92	11.1	337	88.6	0.2	0.5	394±1	347±68	-"-
	A.54-1	07:41	6.92	11.2	193	49.8	-0.8	/	378±1	254±92	-"-
	A.63-1	07:57	6.92	11.9	314	79.8	11.1	42.4	412±1	1362±49	-"-
	sl.6-5	08:12	6.92	12.3	1276	220	-0.1	/	589±1	549±33	-"-
	A.55-1	08:28	6.92	11.5	1188	346	1.5	1.3	374±1	323±37	-"-
	sl.6-6	08:44	6.92	11.4	1171	216	0.5	.17	574±1	591±39	-"-
	A.56-1	08:59	6.92	11.3	1733	235	-0.8	-	700±2	724±26	-"-

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PD 7 -