

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

Date: 12/12/98      UWA Mount No.: 98-55      Whose sample?: Jayme L.      Operator(s): IF + JL

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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\* 30/10\*    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 = 8.170      actual 204-bkg = 0.043      expected resolution = >4200  
actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 6230

Primary = 2.9 nA    PESABM = 40 pA    actual Primary : PESABM (= 50:1) = 73  
Raster time (mins): 1    Raster aperture (microns): 120    No. of scans: 6  
Sensitivity = 12.5

Comments: ① "ERROR" problems - last > 1 hour  
② decreased spot size

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?
	12.7-1	11:30	6.52	13.5	1346	-	-	-		624	✓
X	7-2		delete								
	15.5-1	13:00	6.32	13.6	1652	220	-	-	574	577	✓
	A.3-1	13:25	6.73	12.8	1184	138	0.6	.06	694	636	✓
	A.19-1	13:46	6.42	13.6	2109	308	1.0	.06	611	642	✓
⊕	A.17-2	14:10	6.77	13.1	191K	2.1K	1.6	.01	690	611	✓
	13.8-2	14:35	6.11	19.0	1822	230	-	-	586	572	✓
	A.18-1	14:55	7.85	8.3	43K	5.4K	1.1K	3.3	628	681	✓
	A.18-2	15:13	6.13	17.0	1316	133	1.7	.17	799	746	✓
	A.13-1	15:31	6.65	15.1	10K	102K	1.0	.02	628	590	✓
	12.5-3	15:48	6.22	16.6	1598	220	1.2	.02	583	506	✓

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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 $\pm 1\sigma$ (Ma) 206/238	207/206	Offsets OK?
	A.14-2	16:08	6.49	16.0	4968	550	0.1	0	651	634	-
	A.12-1	16:28	6.33	15.9	11345	1369	1.6	0	647	615	?
	A08-1	16:49	6.20	17.5	5911	340	80.2	1.6	1145	1853	?
	A20-1	17:15	6.23	16.4	3104	607	2.5	0	2064	2051	?
	CX1-1	19:13	4.37	40.7	1494	305	3.3	0.1	688	430	OK
	A17-3	19:38	4.64	36.6	17802	2543	1.2	0	697	624	OK
	A10-2	20:00	4.43	40.6	1581	326	9.1	0.4	624	657	OK
	A10-5	20:21	4.26	40.1	3281	374	2.4	0.07	1381	1454	OK
	C7-2	20:54	4.39	40.6	270	52	1.7	0.4	708	523	OK
	C21-2	21:16	4.38	39.7	1429	302	1.5	0.07	668	535	OK
	C13-2	21:46	4.28	38.6	1006	235	1.4	0.8	434	444	OK
	C13-3										
	C201-1	27:49	6.77	7.87	854	198	2.5	0.2	557	498	
	C201-2	23:10	6.64	7.99	372	84	2.4	0.5	592	604	
	C201-3	23:28	6.97	7.30	541	115	3.4	0.5	570	643	OK
	C6-2	23:46	6.66	7.90	376	84	10.5	2.1	592	611	OK
	C6-3	00:04	7.00	7.91	205	41	0.4	0.1	581	607	OK
	C201-2	00:27	6.82	7.8	891	209	1.7	0.1	561	554	OK
	C05-2	00:46	6.80	7.7	246	52	2.8	0.9	605	384	OK
	C08-1	01:16	6.74	7.4	329	48	1.1	0.2	575	596	OK
	C08-2	01:24	6.86	7.6	227	50	0.3	0.1	589	579	OK
	C08-3	01:46	7.15	7.3	288	57	1.9	0.5	595	492	OK
	C201-3	02:04	6.52	7.9	855	224	0.4	0.03	554	631	OK
	13-2	02:26	6.73	8.04	1900	404	6.5	0.2	601	619	OK
	13-3	02:43	6.74	7.95	550	114	3.9	0.5	603	465	OK

100%  
of 100%  
20/20NO<sub>2</sub>?

Population

change  
subpopulation  
20/20High  
count PbPopulation  
3OK  
centering  
207/206

OK

OK

OK

OK

OK

OK

OK

OK

OK

OK

OK

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?
	B14-2	03:04	6.96	7.82	472	40	3.3	0.5	1304	1226	OK
	B16-2	03:33	6.32	8.12	351	90	2.4	0.4	599	465	OK
	B16-3	03:52	6.77	7.91	444	100	—	—	619	574	OK
	CX12-2	04:11	6.95	7.53	894	198	—	—	566	589	OK
	B14-1	04:29	4.23	4.01	815	160	1.2	0.1	610	567	OK
	B14-2	04:48	6.97	7.29	2610	538	4.8	0.1	620	588	OK
	<del>C23-1</del>	05:06	6.82	7.26	824	107	4.0	0.3	551	476	OK
	9879-191	05:28	6.89	5.8	924	448	24.7	1.9	320	579	OK
	13-1	05:44	6.83	7.39	801	193	2.6	0.2	556	618	OK
	03-1	06:03	6.74	7.37	988	244	12.9	0.9	557	598	OK
	18-1	Marked	High	common	lead						

9879 for B  
RMP 36  
No 20  
Free