

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date UWA Mount No. Whose sample? Operator(s)

98-05 23/3/98

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

Precambrian Count time (secs): 2 / 10 / 10 / 10²⁰ / 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 = 0.040 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 =5784.....

Primary =3.0..... nA PESABM =37..... pA actual Primary : PESABM (≈ 50:1) =81.....

Raster time (mins):1..... Raster aperture (microns):100..... No. of scans:5.....

Comments: ① 206 and 207 integration times fixed after 2 atts.

1std = 11 (exclude s1-4) (see plot)

% = 2.48

(Actual Slope = 2.77, % = 2.18) TRASH C22-1

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
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	S1-1	17:12	6.15	14.3	1179	-	-ve	-	-	505	-
	S1-2	17:25	6.12	14.4	1186	222	0.2	.03	576	563	208
	C.2-1	17:42	6.31	14.8	1174	292	-ve	-	389	426	-
	C.4-1	17:58	6.41	15.6	2350	487	200.	10.4	377	757	204
	C.5-1	18:10	6.67	13.2	5676	1179	120.	2.5	428	369	204
	S1-3	18:20	6.13	14.3	1154	216	-0.7	.01	578	515	208
	C6-1	18:46	6.5	4882	936	638	53.1	2.06	383	381	208
	(C7-1) C7-1	19:01	6.21	10.2	1935	785	53.1	2.	358	301	204
	C42-1	19:15	6.69	12.5	1635	390	0.7	.14	398	382	204
	C8-1	19:33	6.12	11.8	1711	537	287	11.6	378	428	208
	S1-4	19:59	5.71	10.96	932	246	21.1	.05	673	447	208

small error bars -
also failed

Proven Data 1

FIX FILE
70 dropped
very messy

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 Corr.

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	Corr.
↑ unstable	SI 1-5	20:17	5.96	10.7	863	249	1.6	.13	549	502	204
↑: 3.5. X stable	SI 1-6	20:35	6.00	14.8	1118	227	0.1	.02	552	605	208
	C10-1	20:55	6.48	13.	520	139	-0.1	.09	376	294	208 ✓
	C43-1	21:11	6.33	12.9	188	48.	18.	8.8	388	751	208 ✓
	C12-1	21:34	6.19	14.2	1151	318	1.8	.03	385	445	208 ✓
	C12-2	21:48	6.14	14.5	1173	318	38.6	2.	388	720	208 ✓
	SI 1-7	22:03	6.25	14.2	1201	216	-0.6	.06	569	531	208
alot failed Prrawn Data 2 *	C13-1	22:41	5.78	13.1	800	221	418	(34)	348	0	208
FILE	C14-1	22:56	6.19	11.7	1151K	3742	8.6	.06	397	377	204 ✓
	C15-1	23:17	5.99	13.7	4056	1290	27.4	5.1	369	0	208
3A	SI 1-8	23:38	6.05	13.2	1038	231	3.2	.01	550	592	208
* ↓ dmped!	C16-1	23:53	6.52	14.9	1073	244	2.7	2.16	374	440	208
	C17-1	0:07	8.34	7.2	3705	891	353	(10.3)	339	722	208
del scan 3 - 238 del scan 4 - 206 → 254	C18-1B	0:26	6.49	13.9	7319	1682	9.9	.16	407	405	208
3B	SI 1-9	0:42	6.16	15.	1195	216	0.4	.06	560	626	208
	C19-1	1:04	5.99	13.	6734	2308	45.	.73	377	449	208
del scan 1 & 2, 248	C19-B	1:23	6.06	15.	4704	1303	808	(18.9)	319	0	208
	C20-1	1:38	6.13	12.3	1773	589	0.4	.01	384	370	208 ✓
Prawn data 3	C20-B	1:54	6.32	14.7	2387	578	35.	2.02	393	521	208 ✓
FILE	SI 1-10	2:16	6.01	15.5	1176	226	-1.6	.05	553	609	208
del scan 3, 248 + 254 del scan 4, A del scan 5 196 TRASH	C21-1	2:37	5.27	11.4	1213	509	-1.5	0.04	556	412	208
↑ unstable	C22-1	2:59	5.92	24.6	4777	848	343	(10.0)	360	529	208
↑ = 4.5% 1+2, 238 → 254	C23-1	3:13	5.89	21.1	2439	0	0	0.	464	400	204
del scan 2; 196	SI 1-11	3:28	5.99	22.1	1680	215	1.6	.1	587	552	204
del scan 2: 248 & 254 del scan 3: 206 → 254	C24-1	3:43	7.19	20.5	12.5K	1724	159	3.9	331	0	208

