UWA SHRIMP DATA LOG

Date	UWA Mount No.	Whose sample?	Operator(s)
21/1/00	99-82	April	McN + AP

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~~*	40 ~~30/10~~*	10	5	5	2	
Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	3	2	2	

Steel: Wein volts / nA = 62V/19.0 ~~[illegible]~~ for O⁻; = 38V/3.9 ~~[illegible]~~ for O_2^-; = 29 ~~38~~ V/9.3 for NO⁻

dead-time = 32 nanosecs   expected resolution = >4200   actual resolution = 4774

aperture = ? microns   retardation lens = 0 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = 8.170   204-bkg = 0.045   204-206 = 2.003

206-207 = 1.000   206-208 = 1.999

Primary-epoxy = 3.4 nA   Primary-CZ3= 4.8 nA   PESABM-CZ3 = 77 pA

Raster time (mins): 1   Raster aperture (microns): 120   No. of scans: 7

Comments:
- C = CN111-17. gen small g.s. poss. tuffaceous sed (?), but most metamict (S. African, Riries M)
- NB: generally metamict grains w/h high Pb20K. Targetted: 59 grains
- D = CN118-13 rel. small, small ~~*~~ zircon, most metamict. Targetted 14 grains, 9 analysed
- A = CN118-11 rel. larger grains, most metamict ie very yucky!

(margin: A. African. Riries Mem.)

Astd = 11 ~~[illegible]~~ (Slope 2) = 1.86 ; δ (Actual 1.99) = 1.86

C

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?	
	s/. 1-1	14:02	7.20	25.9	2434	220	0.2	.02	572 ± 1	578 ± 19	✓	
	s/. 1-2	14:24	7.29	25.3	2511	224	1.4	.05	575 ± 1	553 ± 13	✓	
fails 6	C 1-1	15:11	7.18	29.8	9210	203	14.6	.31	1853 ± 3	2220 ± 5	✓	Dis
fails 7; change in setting	C 2-1	15:33	7.17	27.4	8798	255	9.8	.21	1579 ± 2	1957 ± 5	✓	
1° ↓ to 4.4nA during last 2 scans →	C 3-1	16:01	6.85	28.0	8337	267	9.5	.19	1590 ± 2	2005 ± 5	✓	
1° step down to 4.3nA →	s/. 2-1	16:26	7.08	24.6	2326	235	0.0	.01	566 ± 1	567 ± 15	✓	
1° ↓ 4.2nA from 4.6nA →	C 4-1	17:24	7.23	23.2	6631	137	5.5	.13	2393 ± 5	2428 ± 5	✓	ok
1° @ 4.2nA → 4.0nA	C 5-1	18:01	7.22	21.6	6119	137	6.4	.15	2375 ± 5	2410 ± 5	✓	ok. ~~NB [illegible]~~

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?	
I° = 4 nA												C
	C.6-1	18:22	7.36	19.6	7302	192	13.2	.25	2152 ± 4	2357 ± 5	✓	x
I° = 3.8 nA	C.7-1	18:43	7.48	20.6	7513	221	7.5	.15	1814 ± 3	2080 ± 5	✓	x
I° = 3.6 nA	sl. 2-2	19:03	7.35	19.1	1956	227	0.1	.05	571 ± 1	566 ± 15	✓	
I° = 3.8 nA v. stable	C 8. -1	19:29	7.36	19.2	6672	163	5.8	.12	2331 ± 4	2405 ± 5	✓	ok.
I° = 3.6 nA v. stable	C 9-1	21:28	7.40	18.2	7226	206	8.0	.15	2106 ± 4	2289 ± 5	✓	?
I° dropped → 3.3 nA → 3.5 change setting	C10-1	21:53	7.23	16.8	5681	164	9.1	.18	2364 ± 5	2408 ± 5	✓	ok
I° = 3.6 nA	D 1-1	22:17	7.14	17.7	2540	68	0.4	.02	2472 ± 8	2464 ± 7	✓	B o.k.
	D 2-1	22:37	7.59	19.1	5970	144	3.5	.09	2212 ± 4	2347 ± 5	✓	
NB: correct peak	sl. 2-3	22:58	5.14 ?	14.2	930	474	-ve	-ve	572 ± 1	583 ± 19	✓	
	D. 3-1	23:24	6.93	17.8	3936	125	2.4	.06	2303 ± 6	2434 ± 6	✓	
	sl 2-4	23:44	7.51	17.9	1894	222	1.3	.11	568 ± 1	557 ± 15	✓	
	D. 4-1	24:06	7.65	17.4	4798	115	1.0	.03	2365 ± 6	2412 ± 5	✓	oka
	D. 5-1	24:32	7.24	18.4	4382	119	1.9	.05	2312 ± 5	2436 ± 5	✓	ok ?
o.k. ?	D. 6-1	1:07	6.32 ?	16.8	3108	128	1.9	.04	2458 ± 7	2445 ± 6	✓	ok.
	D. 7-1	1:28	7.13	17.5	2855	76	1.7	.07	2518 ± 8	2459 ± 7	✓	ok
	D. 8-1	1:53	7.29	18.9	6167	181	6.7	.14	2068 ± 4	2307 ± 5	✓	x
	sl. 2-5	2:15	7.31	18.7	1786	217	0.2	.04	568 ± 1	591 ± 15	✓	
D	D. 9-1	2:35	7.80	17.9	5107	128	4.3	.13	2112 ± 5	2265 ± 6	✓	But young! ok
C	C 11-1	3:01	7.21	17.3	6483	269	9.0	.17	1699 ± 3	2001 ± 6	✓	
I° = 3.5 nA	C12-1	3:56	7.65	17.0	6296	155	18.8	.39	2346 ± 5	2408 ± 6	✓	
power glitch → failures ?												
A I° dropped sharply → 3 nA	sl. 2-6	4:38	7.61	14.8	1558	221	1.9	.02	551 ± 1	560 ± 17	✓	See printout ← change in I° setting
I° = 3.2 nA → 3.0 nA	sl. 3-1	5:01	7.62	14.0	1487	211	1.1	.04	576 ± 1	526 ± 17	✓	
I° = 3 nA → 2.6 nA fail 6	A1-1	5:25	7.44	13.3	4135	131	0.7	.02	2491 ± 6	2456 ± 5	✓	
I° = 3.2 nA I° stable	A 2-1	5:47	7.60	14.1	2735	82	1.4	.06	2382 ± 7	2468 ± 7	✓	
I° stable but stepped down towards end.	A 3-1	6:07	7.51	14.2	3329	102	2.6	.08	2371 ± 7	2471 ± 6	✓	

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
1° = 3.0 → 3.8 during 2nd scan.											
Fail b	A 4-1	6:29	7.55	12.7	2659	85	4.0	.14	2493 ±8	2455 ±7	✓
	A 5-1	6.52	7.78	13.7	2111	60	1.7	.09	2420 ±9	2434 ± 8	✓
1° ↑ 3.0 → 3.2nA	sl. 3-2	7:13	7.46	14.4	1514	224	7.6	.52	568 ±1	547 ± 18	✓
1° grad ↑ 3.2 → 3.4nA → 3.0nA	A 6-1	7:37	7.68	14.1	3654	103	1.9	.06	2442 ± 7	2467 ± 6	✓ del scans A 5
power glitch Magnet went ↓ → 1° 3.2nA	A. 7-1	7:59	6.58	14.6	5670	202	5.5	.07	2399 ±7	2099 ± 5	✓ & 40 scans 6
1° grad ↓ 3.2 → 3.4nA	A. 8-1	8:20	7.49	14.0	4961	160	5.7	.12	2309 ± 5	2401 ± 5	✓
1° Stable @ 3.2	A. 9-1	8:41	7.47	14.5	5170	178	4.2	.09	2137 ± 4	2338 ± 5	✓ *
	A. 10-1	9:08	7.14	14.7	1444	47	1.0	.07	2451 ±10	2444 ±10	✓
drifted 1° dropped out	sl. 3-3	9:							Omitted		✓
	sl. 3-4	9:47	7.54	13.1	1366	224	~	006	549 ± 1	617 ± 17	✓