

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 11-05-98 UWA Mount No. 98-10 Whose sample? F. Bielestein Operator(s) IF + FB

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
Precambrian	Count time (secs):	2	10	10	10	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 = 8.167 actual 204-bkg = 0.043 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5110

Primary = 4.0 nA PESABM = 46 pA actual Primary : PESABM (≈ 50:1) = 87
 Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: sensitivity = 110

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)	204-196 Corr.	207-206
									206/238 207/206		
	sl. 4-1	10:56	6.77	14.2	1443	220	2.1	.03	572 ± 1 508 ± 31	8.167	1.000
	sl. 2-1	11:12	6.77	14.1	1543	224	0.0	-	598 ± 1 555 ± 30	-11-	-11-
	C. 1-1	11:32	6.77	3.9	90	68	-2.0	-	408 ± 2 134 ± 134	-11-	-11-
	C. 2-1	11:49	6.77	13.4	188	57.7	0.2	1.1	392 ± 1 567 ± 83	-11-	-11-
	C. 1-2	12:08	6.77	14.2	303	76	1.9	7.5	378 ± 1 299 ± 73	-11-	-11-
	sl. 2-2	12:24	6.77	14.2	1583	220	2.2	.17	593 ± 1 537 ± 30	-11-	-11-
	C. 3-1	12:40	6.77	10.4	518	122	-0.7	-	373 ± 1 399 ± 54	-11-	-11-
	C. 4-1	12:56	6.77	14.4	380	93.2	-0.1	-	390 ± 1 361 ± 64	-11-	-11-
	C. 5-1 (core)	13:12	6.77	14.5	1580	387	1.8	1.3	388 ± 1 349 ± 32	-11-	-11-
	sl. 2-3	13:28	6.77	15.7	1513	229	-0.6	-	585 ± 1 633 ± 29	-11-	-11-
	C. 5-2 (core)	13:43	6.77	14.5	403	92.9	0.7	2.2	390 ± 2 336 ± 179	-11-	-11-

low Zr!

PD 1 ✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	204-196 Corr. 207-20	
	(RIM) C.5-3	14:00	6.77	15.0	425	103	0.7	1.7	387 ± 1	310 ± 61	- " -
	C.6-1 (RIM)	14:16	6.77	12.5	1250	405	2.7	2.4	366 ± 1	405 ± 35	- " -
	C.6-2 (CORE)	14:31	6.77	14.8	318	89	4.5	6.1	388 ± 1	409 ± 68	- " -
10 rejected	sl.2-4	14:47	6.77	14.0	1486	216	0.9	.05	602 ± 1	358 ± 30	- " -
	C.7-1 (CORE)	15:03	6.77	14.5	450	94	1.0	.3	400 ± 1	406 ± 58	- " -
	C.7-2 (CORE)	15:18	6.77	15.1	1535	289	-0.8	/	391 ± 1	373 ± 32	- " -
	C.8-1 (RIM)	15:34	6.77	15.6	208	43.6	1.1	7.1	395 ± 1	397 ± 85	- " -
	sl.2-5	15:50	6.77	15.9	1572	228	0.9	.07	595 ± 1	607 ± 29	- " -
	C.8-2 (CORE)	16:06	6.77	16.2	311	70.1	-0.3	/	385 ± 1	414 ± 69	- " -
	C.9-1	16:22	6.77	12.9	210	48.4	0.9	5.1	385 ± 1	444 ± 82	- " -
	C.10-1	16:38	6.77	15.6	2059	130	2.2	.01	1258 ± 4	1274 ± 20	- " -
	sl.2-6	16:55	6.77	16.0	1582	218	0.0	/	601 ± 1	570 ± 29	- " -
	C.11-1	17:11	6.77	14.5	377	78.1	-0.6	/	378 ± 1	450 ± 62	- " -
	C.12-1 (CORE)	17:26	6.77	15.7	395	89.2	1.6	4.9	401 ± 1	402 ± 62	- " -
	C.12-2 (RIM)	17:41	6.77	16.1	613.2	132	-1.8	/	393 ± 1	394 ± 50	- " -
	sl.2-7	17:57	6.77	14.0	1502	218	0.3	.25	603 ± 1	506 ± 31	- " -
	C.13-1	18:13	6.77	14.5	2197	561	4.9	.41	384 ± 1	437 ± 26	- " -
	C.14-1	18:29	6.77	14.0	333	82.2	0.3	1.1	378 ± 1	202 ± 72	- " -
	C.15-1	18:46	6.77	15.1	2076	473	-1.3	/	379 ± 1	414 ± 27	- " -
	sl.2-8	19:01	6.77	14.7	1507	215	0.4	.44	594 ± 1	614 ± 29	- " -
	C.16-1	19:18	6.77	16.2	242	54.0	2.1	9.2	396 ± 1	340 ± 80	- " -
	C.17-1	19:34	6.77	13.6	2899	532	0.8	.39	404 ± 1	354 ± 24	- " -
	C.18-1 (RIM)	19:50	6.77	15.0	423	86.7	-0.1	/	405 ± 1	437 ± 59	- " -
	sl.2-9	20:08	6.77	13.0	1399	213	-0.1	/	617 ± 1	519 ± 32	- " -
	C.18-2 (CORE)	20:41	6.77	16.0	450	102	-0.2	/	391 ± 1	391 ± 58	- " -

Pb loss?

PD 2 ✓

PD 3 ✓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	204-196 Corr. 207-206	
	C.19-1	20:24	6.77	16.1	1029	224	1.8	2.2	390 ± 1	432 ± 38	8.167 1.000
	C.61-1	20:57	6.77	14.3	323	65.8	1.3	5.2	406 ± 1	396 ± 68	- " -
	sl. 2-10	21:13	6.77	14.5	1520	221	-0.1	-	608 ± 1	641 ± 29	- " -
	C.61-2	21:29	6.77	15.9	699	136	0.5	1.1	403 ± 1	394 ± 47	- " -
	C.22-1	21:46	6.77	15.9	362	73.4	2.6	-6	401 ± 1	298 ± 67	- " -
	C.23-1	22:01	6.77	15.0	442	85.5	0.8	.03	397 ± 1	367 ± 60	- " -
	sl. 2-11	22:17	6.77	14.7	1583	223	1.6	.02	601 ± 1	633 ± 29	- " -
	C.24-1	22:32	6.77	16.1	788	157	-0.5	-	404 ± 1	322 ± 45	- " -
	C.25-1	22:48	6.77	16.5	495	99.8	2.4	1.5	386 ± 1	393 ± 55	- " -
	C.28-1	23:04	6.77	12.8	1376	298	1.6	1.5	396 ± 1	388 ± 34	- " -
	sl. 3-1	23:21	6.77	16.3	1594	219	0.3	.05	586 ± 1	529 ± 30	- " -
	C.29-1	23:37	6.77	15.8	248	53	0.3	1.2	397 ± 1	354 ± 79	- " -
	C.30-1	23:53	6.77	15.5	2246	479	-0.2	-	392 ± 1	343 ± 27	- " -
	C.31-1	00:08	6.77	15.6	530	119	1.6	4.1	384 ± 1	289 ± 56	- " -
	sl. 3-2	00:24	6.77	16.0	1638	220	0.7	.06	594 ± 1	517 ± 29	- " -
	C.32-1	00:41	6.77	15.1	2625	525	0.1	.01	385 ± 1	399 ± 24	- " -
	C.33-1	00:56	6.77	15.5	641	127	-1.5	-	403 ± 1	424 ± 48	- " -
	C.33-2	01:12	6.77	16.7	629	137	-0.8	-	405 ± 1	360 ± 50	- " -
	sl. 3-3	01:28	6.77	16.3	1487	224	0.9	.75	593 ± 1	512 ± 31	- " -
	C.35-1	01:43	6.77	15.6	2450	537	0.5	.1	391 ± 1	402 ± 25	- " -
	C.35-2	01:58	6.77	16.0	875	184	-0.3	-	404 ± 1	350 ± 43	- " -
	C.37-1	02:14	6.77	16.4	309	65.9	-1.0	-	387 ± 1	382 ± 70	- " -
	sl. 3-4	02:31	6.77	14.5	1497	209	1.4	.11	602 ± 1	632 ± 29	- " -
	C.38-1	02:47	6.77	16.3	642	138	0.1	.17	398 ± 1	371 ± 49	- " -
	C.38-2	03:01	6.77	14.9	309	71.1	2.1	8.9	385 ± 1	351 ± 71	- " -

PD 4 ✓

PD 5 ✓
(12/05/98)
12.08 am

(2.14 am)
PD 6 ✓

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(12/5/98)

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Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 λ cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)	204-196 Corr.	
									206/238 207/206	207-206	
	C.39-1	03:17	6.77	15.7	1401	286	1.1	1.1	390 \pm 1	370 \pm 34	8.167 1.000
	Sl. 3-5	03:32	6.77	16.2	1561	212	0.0	.40	592 \pm 1	610 \pm 29	-"-
	C.42-1	03:48	6.77	15.4	3545	616	0.6	.3	399 \pm 1	361 \pm 21	-"-
	C.42-2	04:04	6.77	14.5	858	237	1.8	2.2	389 \pm 1	359 \pm 43	-"-
	C.43-1	04:20	6.77	15.6	579	127	-0.1	-	380 \pm 1	403 \pm 51	-"-
	Sl. 5-1	04:36	6.77	15.6	1438	222	0.2	.01	584 \pm 1	561 \pm 31	-"-
	C.47-1	04:52	6.77	14.8	3725	713	0.8	.02	392 \pm 1	413 \pm 20	-"-
	C.48-1	05:08	6.77	12.6	321	114	0.2	.50	373 \pm 1	449 \pm 67	-"-
	C.49-1	05:24	6.77	15.6	419	102	1.0	.70	383 \pm 1	325 \pm 62	-"-
	Sl. 5-2	05:40	6.77	15.3	1484	228	1.2	.10	586 \pm 1	542 \pm 31	-"-
	C.50-1	05:56	6.77	15.3	1095	238	0.4	.46	394 \pm 1	398 \pm 37	-"-
	C.51-1	06:12	6.77	13.8	6836	1149	0.8	.20	403 \pm 1	361 \pm 15	-"-
	C.52-1	06:28	6.77	14.6	2524	554	-0.2	'	374 \pm 1	350 \pm 25	-"-
	Sl. 5-3	06:43	6.77	14.8	1582	216	3.0	2.4	605 \pm 1	546 \pm 30	-"-
	C.53-1	06:59	6.77	13.8	248	79.7	0.5	1.9	361 \pm 1	327 \pm 80	-"-
	C.54-1	07:15	6.77	14.9	1179	283	-0.2	'	382 \pm 1	381 \pm 36	-"-
	C.55-1	07:30	6.77	14.6	1268	321	1.1	.85	374 \pm 1	350 \pm 35	-"-
	Sl. 5-4	07:45	6.77	15.9	1645	221	0.2	.02	590 \pm 1	591 \pm 28	-"-
	C.56-1	08:01	6.77	15.6	530	117	-1.4	-	393 \pm 1	350 \pm 54	-"-
	C.64-1	08:16	6.77	13.6	491	108	0.1	.03	337 \pm 1	356 \pm 68	-"-
	Sl. 5-5	08:31	6.77	3827	628	186	2.2	.05	620 \pm 2	421 \pm 48	-"-

PDF

PD 8
Pb loss? omitted
omit! omitted