

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
23/11/97	97-31	Talenti	IF + AP

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 = ~~8.168~~ ^{8.170} actual 204-bkg = ~~0.041~~ ^{0.042} expected resolution = >4200
 actual 206-207 = ^{0.999} actual 206-208 = ^{1.999} actual resolution = ⁴⁶⁷⁸
 Primary = ^{4.0} nA PESABM = ⁶² pA actual Primary : PESABM (= 50:1) = ⁶⁵
 Raster time (mins):¹ Raster aperture (microns):¹²⁰ No. of scans:⁵
 Sensitivity = 15-0

Comments: ① moved 204 and baseline

1-1 } should be deleted.
1-2 }

Calib: default
n = 15 (omit last std)
s = 0.55%

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.	
No & used	sl. 3-7	11:01	5.99	19.5	1780	-	0.0	.04	-	498	208	
✓	sl. 4-1	11:19	5.73	21.6	1781	224	-ve	-	588	629	-	
Low counts??	✓	u.c. 1-1	11:33	4.34	21.9	640	626	2.2	.08	480	366	204
	✓	u.c. 2-1	11:48	5.56	22.9	858	130	0.9	.14	515	607	204
u.c. 1-1.	✓	u.c. 1-2	12:02	4.28	15.8	451	364	-ve	-	478	427	-
	✓	sl. 3-8	12:16	6.06	19.8	1868	211	-ve	-	591	539	-
①	✓	C. 3-1	12:30	5.91	20.8	1953	308	68.	5.8	419	510	208
	✓	C. 4-1	12:48	5.84	19.7	1400	208	1.2	.12	513	462	204
	✓	C. 5-1	13:00	5.71	21.7	1229	207	2.3	.27	450	451	204
	✓	C. 6-1	13:14	6.06	20.6	1124	164	0.9	.14	445	409	204
	✓	sl. 4-2	13:27	5.85	20.7	1819	218	-ve	.01	601	615	208

etc.,
(no rejections anywhere)

Rejection over-ride	Sample/Std ID	Time - printout	UO/U kcps	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C-7-1	13:41	5.82	21.1	987	156	0.1	0.2	460	391	204
	C-8-1	13:54	5.82	20.8	736	122	-ve	0.2	445	444	-
	C-9-1	14:07	6.01	20.1	1764	272	1.3	-11	447	404	204
	SL-4-3	14:33	5.76	21.3	1823	21	-ve	0.0	571	571	204
	C-10-1	14:47	5.66	22.0	1457	186	1.2	0.3	561	572	204
	C-11-1	14:59	6.52	18.6	1086	142	0.2	0.3	412	401	204
	C-12-1	15:12	6.14	19.7	1024	148	-ve	-	424	482	-
	SL-4-4	15:25	5.94	20.5	1794	206	0.1	-	564	531	-
	C-13-1	15:39	5.86	20.8	1490	236	-ve	-	426	442	-
	C-13-2	15:52	5.63	21.8	629	108	0.7	0.16	432	461	204
	C-14-1	16:04	5.76	20.3	1737	233	1.4	-1.6	432	376	204
	C-15-1	16:17	5.68	21.7	718	126	0.9	0.19	412±2	501±144	204
	SL-4-5	16:32	5.21	20.2	1765	220	0.8	0.07	570±1	527±36	204
	C-16-1	16:47	5.46	23.1	889	161	0.5	0.07	432±1	345±67	204
	C-17-1	17:01	6.08	19.7	2214	249	0.8	0.06	578±1	591±32	204
	C-18-1	17:14	5.87	20.4	891	140	0.9	0.15	436±1	365±65	204
	C-19-1	17:28	6.69	17.4	1243	155	0.3	0.05	423±1	441±51	204
	C-20-1	17:52	5.97	20.3	1144	169	0.9	0.13	439±1	394±59	204
	SL-4-6	18:05	6.00	19.2	1763	210	0.2	0.02	563±2	615±2	204
	C-21-1	18:20	5.85	18.7	241	37.8	23.1	14.2	416±8	120±?	204 Yuk
	C-22-1	18:33	5.89	19.6	601	98.7	0.0	0.004	429±2	513±?	204
	C-23-1	18:45	5.73	18.8	1043	186	26.0	3.36	439±2	504±130	204 o.k.
	C-24-1	18:59	5.88	18.3	980	172	0.3	0.05	430±1	375±70	204
	C-25-1	19:12	5.64	19.2	512	101	0.4	0.11	423±1	485±87	204
	SL-4-7	19:26	6.03	18.0	1739	215	0.1	0.008	568±1	571±32	204

com. for freeze
Recalibrate

File may be lost

↑
1° very stable at 3.6nA
↓

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C26-1	19:39	6.45	16.9	1088	154	0.9	0.15	429 ± 1	758 ± 55	204
	C27-1	19:51	5.96	19.0	318	52.2	-0.4	-	425 ± 1	483 ± 77	-
	C28-1	20:04	5.56	20.1	1844	170	1.6	0.01	584 ± 2	1025 ± 30	204
	C29-1	20:17	6.16	19.6	1717	234	17.6	1.78	451 ± 1	491 ± 75	204
	C30-1	20:29	5.71	19.0	1664	211	0.9	0.07	630 ± 1	724 ± 35	204
	SL4-8	20:44	5.81	19.2	1687	216	0.0 ^{0.1}	0.02	565 ± 1	611 ± 33	208
	C31-1	20:58	6.30	16.8	930	146	-0.1	-	421 ± 1	486 ± 45	-
	C32-1	21:13	6.11	17.3	383	45.8	0.2	0.10	581 ± 2	659 ± 111	204
	C33-1	21:26	6.33	16.2	940	154	-0.2	0.05	414 ± 1	412 ± 46	20x
	C34-1	21:39	5.46	19.6	1534	74.3	0.2	0.01	1724 ± ?	1700 ± ?	20x
	C35-1	21:52	5.72	19.6	319	58.5	0.8	0.36	424 ± 2	369 ± 167	204
	SL4-9	22:07	5.90	18.4	1684	217	-	-	574 ± 1	612 ± 32	-
	C36-1	22:19	5.83	18.6	682	121	3.2	0.67	429 ± 1	364 ± 91	204
	C37-1	22:33	5.94	18.2	795	137	-0.4	0.04	427 ± 1	401 ± 55	208
	C38-1	22:48	5.78	19.9	496	74.6	0.1	0.03	489 ± ?	505 ± ?	204
	C39-1	23:02	5.67	18.3	795	162	-0.3	-	421 ± 1	350 ± 51	2
	C40-1	23:15	5.77	19.3	1226	229	3.4	0.40	412 ± 1	401 ± 61	204
	SL5-1	23:29	6.00	18.5	1765	211	0.3	0.03	580 ± 1	488 ± 37	204
	C41-1	23:43	6.44	16.5	2097	266	-	-	490 ± 1	490 ± 30	-
	C42-1	23:55	5.74	19.2	1031	190	0.4	0.05	428 ± 1	357 ± 81	204
	C43-1	24:08	6.09	17.4	758	130	1.1	0.21	415 ± 1	441 ± 61	204
	C44-1	24:20	6.46	16.9	7393	140	0.4	0.008	2671 ± 6	2865 ± 7	204
	C45-1	24:33	6.39	17.1	1090	162	1.5	0.25	418 ± 1	527 ± 62	204
	SL5-2	24:47	6.05	19.4	1763	205	0.3	0.02	557 ± 1	628 ± 31	208
	C46-1	i:00	5.53	21.2	420	82.0	-	-	417 ± 1	361 ± 70	-

Possibly
not rastered

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps (k)	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Corr.
	C47-1	1:14	6.96	17.4	2052	198	4.4	0.50	484 \pm 1	402 \pm 52	204
	C48-1	1:26	5.68	20.7	908	164	-	-	419 \pm 1	455 \pm 46	-
	C49-1	1:38	5.57	22.1	1290	226	1.9	0.21	433 \pm 1	453 \pm 51	204
	C50-1	1:50	6.40	18.8	1470	197	23.3	3.1	406 \pm 1	535 \pm 103	204
	SL5-3	2:04	6.01	20.1	1840	206	-	-	569 \pm 1	585 \pm 31	-
	C51-1	2:16	5.77	21.7	1928	206	-	-	626 \pm 1	583 \pm 30	-
	C52-1	2:29	6.76	17.9	1014	123	-	-	412 \pm 1	461 \pm 43	-
	C53-1	2:41	6.32	18.7	369	46.2	-	0.14	466 \pm 1	432 \pm 105	205
	C54-1	2:53	6.09	18.0	1069	179	0.6	0.09	408 \pm 1	362 \pm 54	204
	C55-1	3:06	5.99	19.3	1153	157	0.3	0.04	491 \pm 1	485 \pm 44	204
	SL5-4	3:20	5.99	20.1	1851	208	0.8	0.07	570 \pm 1	582 \pm 38	204
	C56-1	3:33	5.77	20.2	1048	179	0.5	0.07	430 \pm 1	438 \pm 92	204
	C57-1	3:45	5.62	20.4	1103	202	0.5	0.06	435 \pm 1	376 \pm 52	204
	C58-1	3:57	5.99	19.9	1050	148	1.0	0.16	464 \pm 1	429 \pm 53	204
	C59-1	4:10	5.69	21.9	1364	160	5.6	0.61	595 \pm 1	738 \pm 57	204
	C60-1	4:22	5.74	21.4	503	84.3	-	-	423 \pm 1	406 \pm 63	-
	SL5-5	4:34	5.80	20.2	1766	220	1.4	0.12	569 \pm 1	595 \pm 38	204
	C61-1	4:47	5.32	24.3	787	128	1.0	0.17	502 \pm 1	480 \pm 67	204
	C62-1	5:00	5.44	23.5	853	150	0.6	0.11	443 \pm 1	447 \pm 64	204
	C63-1	5:12	5.52	22.5	1032	192	0.3	0.05	416 \pm 1	429 \pm 48	204
	C64-1	5:	Computer Crashed								
	C65-1	5:	Error messages after rebooting computer								
	SL5-6		unable to load normal IO settings.								
	C66-1										
	C67-1										

NB: Had to format disks!