

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date 11/07/96 UWA Mount No. 96-7 Whose sample? Arme Operator(s) Ian Dennis Frank

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	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2 ✓	10 ✓	10 ✓	20 ✓	10 ✓	10 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	7 ✓	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 = 0.045 expected resolution = >4200
 Primary = 1.75 nA PESABM = 34 pA actual resolution = 4783
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 51

Comments:

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Corr.
									206/238	207/206	

calibration

	std 1-1	11:44	5.60	15.9	1444	220	(2.8)	0.2	571 ± 1	511 ± 37	204
	std 1-2	12:09	5.88	15.9	1558	203	0.3	-	563 ± 1	541 ± 34	none
	967B.1-1	12:37	5.97	15.2	914	163	0.0	-	411 ± 1	387 ± 38	none
	B.2-1	13:02	5.71	16.4	395	77	1.7	0.5	409 ± 1	200 ± 113	204
	B.3-1				power glitch						
	std 1-3	13:40	5.73	16.7	1531	207	0.0	-	565 ± 1	462 ± 28	none
	B.4-1	14:03	6.26	16.0	494	71	0.0	-	417 ± 1	396 ± 51	none
	B.5-1	14:25	5.78	14.7	810	169	1.3	0.2	409 ± 1	338 ± 58	204
<i>reject 1st ThO</i>	B.6-1	14:47	5.66	16.0	174	35	0.0	-	419 ± 1.5	287 ± 89	none
	B.7-1	15:09	5.94	16.5	617	117	2.1	-	365 ± 1	383 ± 57	208
	std 1-4	15:30	5.69	17.1	1599	212	1.1	0.0	573 ± 1	538 ± 33	204

Rejection over-ride	Sample/Std ID	Time - printout	UO/U α cps	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ₂₀₆ %	Age $\pm 1\sigma$ (Ma) 206/238 207/206	Corr.
---------------------	---------------	-----------------	-------------------	---------	---------	-------	-----------------------	--------------------	--	-------

	967B.3-2	15:51	5.89	17.1	530	100	4.0	0.7	362 \pm 1	400 \pm 63	208
	B8-1	16:12	5.76	16.3	494	94	0.8	0.2	407 \pm 1.1	228 \pm 77	204
	9-1	16:34	5.81	16.6	853	150	1.4	0.2	418 \pm 1	362 \pm 62	204
	10-1	16:54	5.92	16.6	393	73	0.8	0.3	376 \pm 1.1	183 \pm 95	204
1st ²⁰⁶ Pb rejected	std. 1-5	17:15	5.85	16.3	1595	208	0.3	0.0	558 \pm 1	577 \pm 27	208
core	11-1	17:40	5.88	16.5	408	70	0.2	0.1	416 \pm 1.1	348 \pm 66	208
rim	11-2	18:01	5.85	16.1	349	62	0.9	0.3	416 \pm 1.3	307 \pm 116	204
rim	12-1	18:23	5.68	16.3	750 159	159	0.0	-	385 \pm 1	303 \pm 43	none
core	12-2	18:44	5.67	16.7	294	65	0.0	-	366 \pm 1	391 \pm 65	none
	std. 1-6	19:05	5.98	16.2	1663	200	0.2	0.0	566 \pm 1	499 \pm 33	204
	13-1	19:28	5.83	16.5	425	74	1.8	0.0	419 \pm 1.1	472 \pm 59	208
	14-1	19:50	6.26	13.2	526	84	8.6	1.9	420 \pm 2	-	204
1st ²⁰⁶ Pb + ²⁰⁷ Pb rejected	15-1	20:10	5.92	16.4	502	87	0.0	-	407 \pm 1	410 \pm 51	none
	16-1	20:30	5.91	16.3	848	141	1.8	0.3	425 \pm 1	312 \pm 69	204
	std. 1-7	20:51	5.77	15.7	1539	216	0.2	-	564 \pm 1	621 \pm 38	none
	17-1	21:13	5.73	16.2	902	170	1.8	0.2	422 \pm 1	273 \pm 66	204
	18-1	21:33	5.86	16.6	437	75	0.8	0.0	418 \pm 1	460 \pm 60	208
reject ²⁰⁶ Pb + ²⁰⁷ Pb + ²⁰⁸ Pb of rest	19-1	21:53	6.13	15.8	1156	202	0.1	0.0	373 \pm 1	413 \pm 42	204
($\hat{=}$ 20.1)	19-2	22:14	5.98	15.6	361	71	1.9	0.8	364 \pm 1	162 \pm 130	204
	std. 1-8	22:34	5.98	15.3	1618	203	1.1	0.1	576 \pm 1	598 \pm 30	204
core	21-1	22:56	6.15	15.2	1050	180	1.1	0.1	393 \pm 1	337 \pm 52	204
rim	21-2	23:16	5.92	15.5	452	92	0.1	0.0	367 \pm 1	369 \pm 60	204
	22-1	23:37	5.85	16.0	292	54	2.0	0.0	405 \pm 1	499 \pm 70	208
	23-1	23:58	5.94	15.7	583	102	0.3	0.0	413 \pm 2	461 \pm 125	204
	std. 1-9	00:18	5.82	15.6	1573	214	1.3	0.1	567 \pm 1	586 \pm 27	204

T: 22.5°C

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B24-1	00:39	6.02	15.7	732	126	0.9	0.2	404 ± 1	299 ± 71	204
	25-1	01:00	5.95	15.7	961	166	0.7	0.1	420 ± 1	447 ± 53	204
	26-1	01:21	5.94	15.6	1619	320	0.3	0.0	371 ± 1	352 ± 47	none
	27-1	01:43	6.12	15.3	517	102	1.8	0.5	343 ± 1	477 ± 93	204
	28-1	02:05	5.66	16.0	3135	149	1.1	0.1	1607 ± 4	1644 ± 13	208 <i>yes!!</i>
	std. 1-10	02:25	5.96	15.5	20 ¹⁶³⁰	207	-0.2	-	567 ± 1	583 ± 27	none
<i>1st 208 rejected</i>	29-1	02:46	6.06	15.6	119	20	0.2	0.3	415 ± 6	235 ± 432	204
	30-1	03:06	5.99	15.6	324	55	1.0	0.0	418 ± 1	409 ± 73	208
	31-1	03:27	5.77	15.8	428	84	1.2	0.3	410 ± 1	379 ± 104	204
	std. 1-11	03:47	5.82	15.7	1564	211	0.1	-	570 ± 1	526 ± 28	208
	32-1	04:09	6.13	15.3	591	96	0.1	0.0	416 ± 1	-	208
	33-1	04:30	5.74	14.5	350	75	-0.1	0.0	415 ± 1	-	none
<i>core/viam</i>	34-1	04:51	6.07	15.3	851	105	-0.4	0.0	560 ± 1	559 ± 37	none
	35-1	05:12	5.94	15.7	1003	176	0.6	0.0	415 ± 1	453 ± 46	208
	std. 1-12	05:33	5.89	15.8	1614	209	2.4	0.2	568 ± 1	523 ± 36	204
	36-1	05:55	6.13	16.1	288	46	1.2	0.7	401 ± 2	171 ± 156	204
	B37-1	06:15	5.97	15.5	458	79	0.5	0.1	419 ± 1	261 ± 96	204
	C. 1-1	06:36	6.27	14.7	628	105	1.7	0.4	398 ± 1	486 ± 76	204
	C. 2-1	06:55	6.18	14.6	997	171	0.7	0.1	403 ± 1	391 ± 52	204
	std. 1-13	07:15	6.08	14.3	1584	202	1.7	0.1	573 ± 1	487 ± 39	204
	C. 3-1	07:35	5.81	14.3	644	135	2.2	0.4	409 ± 1	444 ± 75	204
	C. 4-1	07:55	6.28	14.7	216	35	0.6	0.5	405 ± 2	496 ± 94	208
	C. 5-1				<i>high Pb²⁰⁴</i>						
	std. 1-14	08:21	6.04	14.8	1611	204	-0.1	-	570 ± 1	570 ± 27	none