

LC-4B

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 2/9/96 UWA Mount No.: 96-46 Whose sample?: Ling Operator(s): IF + L deS + Marcus

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): 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 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200  
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5215  
 Primary = 2.8 nA PESABM = 40 pA actual Primary : PESABM (= 50:1) = 70  
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments:



206 2 sec  
 238 1  
 248 1  
 254 1

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.
196 206 207 254	sl 646.2-1	11:38	6.43	16.2	1562	-	-ve	-	517	-
196 206 248	2-2	11:56	6.51	15.2	1456	219	0.1	0.01	550	639 208
196 238	2-3	12:20	6.56	14.7	1403	212	0.6	0.02	554	595 208
206, 248 254	sl 646C.1-1	12:51	6.46	15.9	1707	165	9.8	0.7	813	1062 204
238	C.2-1	13:24	6.62	15.0	217	7	0.8	0.5	2127	2209 ± 28 204
196, 206 208, 248, 254	3-1	13:56	6.83	15.0	3133	161	2.1	0.09	1323	1826 204
206	sl 2-4	14:20	6.54	14.7	1370	207	0.8	0.03	557	592 208
	C.3-2	Very low U+Th. Did not centre on 206								
	C.4-1	15:16	6.29	15.5	726	30.5	-0.5		1902 ± 11	2032 ± 25 208
254	C.4-2	15:41	6.27	14.7	515	29.2	2.2	0.41	1561 ± 9	1952 ± 35 204
196, 238 254	C.5-1	16:06	6.68	14.8	889	74	1.5	0.22	914 ± 3	1189 ± 35 204

\* 2° not adjusted → ~40% of true signal.

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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 Corr.

DISCARD?  
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196 206 238  
196 206 238 248  
248, 254, 206, 207  
196, 207  
238  
196 206  
209, 208  
238, 248, 254  
196, 206, 248  
196, 208  
196 207  
238, 254  
206  
207, 208, 238, 254  
196  
196 206  
207, 248  
206 208  
196, 207, 208  
238

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	Corr.
	Sl. 6-2-5	16:32	6:40	84.1	741	234	1.5	0.02	502 ± 1	532 ± 28	208	
	Sl. 2-6	16:51	6:50	14.95	1426	25	-1.1	—	560 ± 1	582 ± 19		
	C. 6-1	17:14	6:66	15.22	4151	139	4.1	0.12	2036 ± 5	2162 ± 7	204	
	C. 7-1	17:38	6:50	14.92	3381	95	1.1	0.03	2584 ± 8	2874 ± 6	204	
	C. 8-1	17:57	6:58	15.25	1808	247	-0.1	0.01	582 ± 1	622 ± 18	208	
	C. 8-2	18:17	6:48	14.59	1013	53	2.3	0.25	1543 ± 1	1579 ± 25	204	
	Sl. 2-7	18:46	6:51	15.67	1423	208	1.7	0.02	548 ± 1	614 ± 20	208	
	C. 7-2	19:12	6:78	14.62	3823	153	3.5	0.11	1725 ± 4	1979 ± 9	204	
	C. 9-1	19:35	6:58	14.52	2168	113	0.2	0.01	1447 ± 4	1552 ± 13	204	
	C. 10-1	20:01	6:12	15.0	1259	55	1.7	0.11	2047 ± 9	2148 ± 15	204	
	C. 10-2	20:22	6:50	15.31	378	16	3.9	1.12	1742 ± 13	2028 ± 44	204	
	Sl. 2-8	20:44	6:25	14.70	1276	228	0.7	0.03	542 ± 1	570 ± 21	208	
	C. 11-1	21:09	6:66	13.67	1071	54	-0.1	—	1561 ± 6	1564 ± 15	—	
	C. 12-1	21:36	6:16	14.70	178	7.3	-1.2	—	2180 ± 29	2192 ± 31	—	
	C. 13-1	21:59	6:56	14.30	646	22.3	1.0	0.16	2183 ± 4	2142 ± 20	204	
	C. 13-2	22:32	6:00	13.49	282	15	-0.2	0.08	2029 ± 8	2217 ± 34	208	
	Sl. 2-9	23:00	6:70	14.29	1426	205	0.1	0.06	558 ± 1	—	207	
	C. 14-1	23:30	6:54	16.20	3350	826	179	7.53	292 ± 1	521 ± 89	204	
	C. 14-2	23:59	6:94	13.16	854	41	8.0	1.15	1515 ± 7	1614 ± 41	204	
	C. 15-1	00:33	6:61	14.20	1990	464	1.3	0.06	2970 ± 13	3004 ± 8	204	
	C. 16-1	01:36	6:47	14.25	1189	104	1.4	0.14	990 ± 3	1312 ± 25	204	
	Sl. 3-1	02:01	6:46	15.20	1421	224	1.8	0.16	538 ± 1	574 ± 30	204	
	C. 17-1	02:35	5:74	16.5	1730	324	1.40	0.24	600 ± 1	727 ± 40	204	

196 206  
206 254  
238 254  
Sl. 3-2  
Sl. 3-3

2u/U 2.13341  
uO/U 6.51266  
Pb\*/U 0.202596  
n = 11

std dev = 1.63%