

n = 13 (excluded 3-6) (Actual slope = 2.07, % = 1.71)  
 % error = 1.72

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 24/2/08 UWA Mount No.: 98-04 Whose sample?: Yunnan Operator(s): IA-YQP

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254

Precambrian Count time (secs): 2 - 10 - 10 - 20 - 20 - 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 = <sup>32</sup> nanosecs  
 actual 196-204 = <sup>Higher than usual, but checked several times</sup> 8.170 amu actual 204-bkg = 0.040 amu expected resolution = >4200  
 actual 206-207 = 1.000 amu actual 206-208 = 2.000 amu actual resolution = 4875

Primary = 4.6 nA PESABM = 65 pA actual Primary : PESABM (≈ 50:1) = 71  
 Raster time (mins): 1 Raster aperture (microns): ~~1000~~ <sup>130</sup> No. of scans: 5  
 Sensitivity = 16

Comments: Background counts are higher than ideal (~0.4 cps) but that is not a problem for these high-U grains. - ① improved when raster was made bigger  
 ② Duo went unstable; adjusted I duo.

C = NXSH-2 B = BZH2-4 A = JCHGL-8

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U k cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.	
	sl. 3-1	10:33	5.71	25.2	2460	-	-ve	-	555	-	
	sl. 3-2	10:48	5.76	25.0	2636	224	0.3	-	589	512	
	u C. 1-1	11:23	6.26	22.2	8981	2135	8.3	.24	186	152	204
	C. 2-1	11:38	6.06	24.0	4443	1135	10.	.59	177	118	204
	sl. 3-3	12:05	5.76	23.9	2475	224	1.4	-	582	589	-
	C. 3-1	12:24	6.37	20.6	4123	1400	156.	9.6	121	170	204
	C. 4-1	12:44	6.70	<del>21.2</del> 21.2	<del>2190</del> 2190	2190	5.3	.15	191	200	204
① extremely small error bars → abt failed	C. 5-1	12:59	6.17	<del>21.2</del> 21.2	<del>2621</del> 2621	2621	27.	.59	197	144	204
	C. 6-1	13:24	6.07	24.2	837	248	9.1	2.8	147	227	204
	sl. 3-5	13:34	5.63	25.2	2373	228	0.4	<del>0.8</del>	563	587	208
	C. 4-1	13:55	6.25	23.0	5438	1294	-ve	-	180	201	-

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 Corr.

dal scan 25 for 248  
 fix name in file  
 - 11 -  
 - 4 -  
 very unstable

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.
	C. 7-1	14:00	6.17	24.1	6007	1482	32	.14	173	133	204	
	C. 9-1	14:26	6.27	23.5	1412	2738	72	1.4	208	121	204	
	sl. 3-5	14:42	5.75	24.2	2400	221	2.0	-	568	549	-	
	C. 42-1	15:02	5.41	17.4	2392	1306	6.4	.33	171	126	204	
	C. 43-1	15:20	5.18	22.2	945	397	15.	1.5	203	-	204	
	<del>sl. 3-6</del>	<del>15:37</del>	<del>5.58</del>	<del>18.9</del>	<del>1717</del>	<del>278</del>	<del>2.2</del>	<del>-</del>	<del>467</del>	<del>665</del>	<del>-</del>	
	② Changed dup sex strips to restore stability											
	sl. H	16:02	5.81	28.5	2810	207	0.0	-	579	580	-	
	C. 44-1	16:19	4.58	22.8	1819	1239	18.	.75	214	-	204	
	C. 45-1	16:36	5.60	25.2	1318	408	3.2	.50	182	140	204	
	C. 17-1	16:56	6.00	25.6	302	78	0.6	.51	168	-	204	
	sl. 1-2	17:12	5.80	26.0	2579	211	1.7	-	580	609	-	
	C. 25-1	17:30	5.97	26.0	853	319	2.5	.76	118	-	204	
	C. 27-1	17:46	5.91	24.7	982	272	0.3	.08	173	190	204	
	C. 46-1	18:01	6.07	25.2	1354	323	3.6	.72	178	-	204	
	sl. 1-3	18:16	5.79	27.2	2676	210	-0.8	✓	578	561	✓	
	C. 47-1	18:36	6.39	23.	6681	1502	1.1	.05	177	149	204	
	C. 48-1	18:50	5.93	25.9	1238	317	1.4	.3	176	101	204	
	C. 49-1	19:06	5.71	25.6	1549	475	3.8	.5	170	76	204	
	C. 50-1	19:22	6.07	23	7692	2007	2.0	.06	181	193	204	
	C. 51-1	19:37	6.11	24.6	2875	702	3.6	.3	176	144	204	
	sl. 1-4	19:53	5.68	26.6	2590	218	1.6	.14	586	560	204	
	C. 52-1	20:10	6.23	21.8	1381	343	0.5	.1	179	152	204	
	C. 53-1	20:26	5.27	21.3	134	65	20.0	✓	174	249	✓	
	C. 54-1	20:40	5.85	24.1	2419	709	0.9	.09	173	118	204	

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

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	<sup>204</sup> Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C55-1	21:00	5.98	25.	1047	278	1.1	0.2	171	196	204
	C56-1	21:17	6.41	23.5	2107	1785	5.5	.2	176	199	200
	<del>C57-1</del>	21:34	6.48	23.6	4924	1094	1.6	.1	169	185	204
(U804)	C58-1	21:49	5.99	23.9	2584	204	-0.5	✓	580	572	✓
	C58a	22:09	6.22	24.9	2835	662	1.0	.09	172	148	204
	C58b	22:25	6.09	25.6	1189	284	0.1	.03	175	169	204
	C59-1	22:42	4.76	23.	1943	1041	12	.7	223	69.	204
	G60-1	22:58	6.07	24.1	1244	323	0.7	.1	173	218	204
dup	C61-1	23:15	5.44	23.5	1766	606	1.9	.2	196	214	204
	SL1-6	23:32	6.	25.7	2647	195	0.5	.05	574	535	200
	C62-1	23:48	6.34	22.4	1650	370	4.6	.76	186	212	204
	C63-1	0:04	5.95	22.9	3328	969	2.	.1	174	110	204
	<del>C64-1</del>	0:20	5.78	24.1	294	91	-0.1	✓	173	141	✓
	<del>C65-1</del>	0:36	6.71	22.9	5365	1571	1.5	.06	184	166	204
	C66-1	0:52	6.19	24.	1672	395	0.5	.08	179	90	204
	SL1-7	1:08	6.11	24	2654	197	-0.4	✓	577	552	✓
contaminated from B?	A22-1	1:30	5.92	23.2	2352	524	0.5	.04	226	186	204
	A23-1	1:45	6.06	23.7	1349	275	0.9	.2	224	179	204
	A25-1	2:07	6.87	19.4	4465	1315	4.8	1.8	125	—	208.
	A26-1	2:23	6.13	22.8	3862	1115	4.5	.3	159	198	204
	SL7-1	2:39	5.93	24.5	2424	199	-0.4	✓	564	562	✓
	B3-1	2:55	5.91	23.2	2548	582	0.6	.05	223	218	204
	B4-1	3:10	5.85	23.7	583	132	0.6	.2	228	29	204
	B5-1	3:25	5.67	23.9	569	145	-0.3	✓	225	335	✓
	B6-1	3:48	6.11	23.1	533	109	1.1	.5	222	16	204

contaminated from B?   
 del scan 4   
 238, 206, 264

