

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 13/2/97 UWA Mount No.: 96-67 Whose sample?: Jan + April Operator(s): Jan + April

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Indicate any change to the following: <sup>200</sup>196 204 bkg 206 207 208 <sup>254</sup>238 248 <sup>270</sup>254

Precambrian Count time (secs): 2 10 - 10 - 10 - 30/10 10 - <sup>5</sup>3 5 <sup>2</sup>3  
 Phanerozoic\* Delay time (secs): <sup>28</sup>28 3 - 1 - 2 - 1 - 1 - 3 2 <sup>2</sup>3

expected <sup>200</sup>196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs  
 actual <sup>200</sup>196-204 = 4.137 actual 204-bkg = 0.040 expected resolution = >4200  
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5040

Primary = 2.5 nA PESABM = 41 pA actual Primary : PESABM (= 50:1) = 61 (on Z)  
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments: Titanites.

log/log calibration in KRILL:  
 #Stds = 13  
 $\sigma = 0.207$   
 Default slope = 0.39  
 actual = 0.86 (used for B)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO <sup>200</sup> 196 cps	206 cps	UO ppm cps	204Pb ppb 206	f206 %	Age ±1σ (Ma) 206/238 254	207/206	Corr. d 207/206 <sup>204</sup>
	<u>all in KH 667.H</u>	<u>12:47</u>	<u>1.04</u>	<u>1720</u>	<u>1591</u>	<u>13K</u>	<u>0.003</u>	<u>0.126</u>	<u>0.0610</u>	<u>0.0611</u>
	<u>KH 1-2</u>	<u>13:15</u>	<u>1.03</u>	<u>1669</u>	<u>1552</u>	<u>13K</u>	<u>0.003</u>	<u>0.123</u>	<u>0.0618</u>	<u>0.0618</u>
	<u>K 1a-1</u>	<u>13:53</u>	<u>1.05</u>	<u>1539</u>	<u>1458</u>	<u>12K</u>	<u>0.003</u>	<u>0.124</u>	<u>0.0611</u>	<u>0.0611</u>
	<u>B. 1-1</u>	<u>14:13</u>	<u>1.10</u>	<u>1720</u>	<u>776</u>	<u>1798</u>	<u>0.0004</u>	<u>0.431</u>	<u>0.1023</u>	<u>0.0966</u>
	<u>C. 1-1</u>	<u>14:33</u>	<u>1.11</u>	<u>2031</u>	<u>1195</u>	<u>2890</u>	<u>0.003</u>	<u>0.413</u>	<u>0.0961</u>	<u>0.0989</u>
	<u>A. 1-1</u>	<u>15:00</u>	<u>0.98</u>	<u>2080</u>	<u>292</u>	<u>353</u>	<u>0.036</u>	<u>0.827</u>	<u>0.3419</u>	<u>0.1729</u>
	<u>K 3-1</u>	<u>15:37</u>	<u>1.00</u>	<u>1661</u>	<u>1663</u>	<u>14K</u>	<u>0.002</u>	<u>0.116</u>	<u>0.0626</u>	<u>0.0597</u>
	<u>A. 2-1</u>	<u>16:01</u>	<u>1.06</u>	<u>1305</u>	<u>113</u>	<u>76</u>	<u>0.031</u>	<u>1.48</u>	<u>0.5705</u>	<u>0.1837</u>
	<u>A. 3-1</u>	<u>16:23</u>	<u>1.01</u>	<u>2199</u>	<u>188</u>	<u>192</u>	<u>0.021</u>	<u>0.981</u>	<u>0.440</u>	<u>?</u>
	<u>A. 4-1</u>	<u>16:45</u>	<u>1.02</u>	<u>1978</u>	<u>146</u>	<u>151</u>	<u>0.016</u>	<u>0.968</u>	<u>0.409</u>	<u>?</u>
	<u>A. 5-1</u>	<u>17:08</u>	<u>1.00</u>	<u>2202</u>	<u>141</u>	<u>113</u>	<u>0.032</u>	<u>1.25</u>	<u>0.564</u>	<u>0.164</u>

re-scale some data in files

runtable problem when tried with KRILL

Mount/sample No: 96-67

Date: 13/2/97

Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO 278/254	196 cps	206 cps	(254) UO ppm cps	204Pb ppm	f206 %	Age ± 1σ (Ma) 206/238 254	207/206	204 - Corr. d 207/206
	K 1-3	17:37	1.02	1655	1582	13K	0.0003		0.120	0.0626	0.0590
	C. 2-1	<del>17:48</del>	1.10	2227	293	721	0.0003		0.406	0.0956	0.0907
	C. 3-1	18:10	0.83	748	224	738	0.0002		0.304	0.0891	0.0857
	C. 4-2	18:29	1.10	2054	285	658	0.0017		0.433	0.1139	0.0898
	C. 4-1	18:48	1.13	2185	475	1124	0.00005		0.4226	0.0975	0.0968
	K 1-4	19:08	1.03	1741	1655	13K	0.0002		0.124	0.0612	0.0579
	C 4-2	19:32	1.10	2231	459	1056	-0.00001		0.434	0.0958	0.0958
	C 5-1	19:51	1.07	2193	250	633	-0.0005		0.395	0.0953	0.0953
	C 6-1	20:16	1.02	1954	410	1063	0.0023		0.3861	0.1262	0.0936
	C 6-2	20:35	1.19	1961	324	843	0.00003		0.3842	0.0956	0.0951
	K 1-5	20:54	1.06	1676	1567	12K	0.0003		0.128	0.0621	0.0571
	C. 7-1	21:15	1.04	1907	749	1814	0.0004		0.413	0.0965	0.0916
	C. 7-2	21:33	1.03	2150	543	1361	0.00003		0.399	0.0977	0.0973
	C. 8-1	21:54	1.06	2089	1793	3422	0.0004		0.524	0.0942	0.0880
	C. 8-2	22:15	1.05	2092	723	1805	0.0001		0.401	0.0959	0.0942
	K 1-6	22:34	0.99	1549	1507	13K	0.0004		0.1196	0.0618	0.0562
	B 1-2	22:55	1.13	2029	744	1685	0.0005		0.441	0.0993	0.0929
	B 1-3	23:17	1.00	1934	593	1422	0.0005		0.417	0.0984	0.0915
	B 2-1	23:37	1.13	1977	1427	3299	0.00002		0.433	0.0935	0.0932
	B 2-2	23:57	1.12	1988	1167	2738	0.00002		0.426	0.0957	0.0954
	K 1-7	24:16	1.03	1579	1456	12K	0.0002		0.122	0.0618	0.0583
	B 2-3	24:35	1.11	1960	620	1428	0.0007		0.434	0.1023	0.0925
	B 3-1	24:47	1.16	2029	506	1129	0.0002		0.449	0.0978	0.0950
	B 3-2	1:15	1.14	1902	746	1696	0.0002		0.440	0.0973	0.0943
	B 3-3	1:34	1.13	1914	680	1564	0.00003		0.435	0.09612	0.0957

delete sample?

check last 2 rows

Min

12

13

delete analysis  
 delete 3rd, 4th & 5th scans - no reading. - there was no drop in 10.  
 2<sup>nd</sup> reading.

Mount/sample No: 96-67 Date: 13/2/97 Page No: 3

no reading  
 delete

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U <sub>238</sub>	200 196 cps	206 cps	(254) UO ppm cps	204Pb ppb	f206 %	Age ± 1σ (Ma)	204 - 1 Corr. d
			270/254				266		206/238 254	207/206 207/206
	K 3-2	1:52	1.00	1472	1597	13K	0.0003		0.118	0.0606 0.0562
	B 3-4	2:11	0.76	1765	425	1919	0.0003		0.221	0.1159 0.1113
	<del>B 3-5</del>	2:29	1.18	1673	947	2033	0.0001		0.466	0.0944 0.0926
	B 4-1	2:53	1.15	1966	651	1444	0.0004		0.451	0.0976 0.0923
	B 4-2	3:11	1.12	2034	912	1960 <del>239</del>	0.001		0.465	0.1164 0.1033
	K 3-3	3:29	1.02	1583	1620	13K	0.0006		0.121	0.0642 0.0559
	B 4-3	3:47	1.14	1951	500	1095	0.0006		0.457	0.1029 0.0940
	B 4-4	4:05	1.17	1838	618	1381	0.0001		0.448	0.0967 0.0948
	B 5-1	4:23	1.15	1960	556	1221	0.00004		0.455	0.0967 0.0967
	B 5-2	4:41	1.20	1938	554	1174	0.0003		0.472	0.0945 0.0907
	K 3b-1	4:59	1.06	1739	1437	11K	0.0006		0.127	0.0643 0.0561
	B 6-1	5:24	1.14	1893	466	1055	0.00004		0.442	0.0972 0.0967
	B 6-2	5:41	1.18	1854	2090	4445	0.0011		0.470	0.1089 0.0931
	B 7-1	6:06	1.14	1912	351	798	0.0009		0.440	0.1058 0.0932
	B 7-2	6:26	1.12	1862	643	1518	0.00001		0.424	0.0944 0.0943
	K 3b-2	6:45	1.07	1687	1386	11K	0.0005		0.126	0.0642 0.0568
	B 7-3	7:04	1.11	1774	800	2106	0.00006		0.427	0.0967 0.0959
	B 7-4	7:22	1.12	1711	977	2269	0.0004		0.431	0.0971 0.0920
	B 5-3	7:40	1.01	2046	597	1721	0.0007		0.347	0.1040 0.0945
	K 3b-3	7:58	1.08	1680	1133	9K	0.0008		0.126	0.0667 0.0552
	<del>K 2b-1</del>	<del>8:18</del>	<del>0.56</del>	<del>12.6</del>						

delete this file