

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

Date	UWA Mount No.	Whose sample?	Operator(s)
7/6/99	98-72	AGSO	JD + AR

---

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
<b>Precambrian</b>	Count time (secs):	2	10	10	10/20*	30/10*	5	5	25	5
<b>Phanerozoic*</b>	Delay time (secs):	8	3	1	2	1	3	24	2	3

expected <sup>200</sup>196-204 = 8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = <sup>32</sup>..... nanosecs  
 actual <sup>200</sup>196-204 = <sup>4.135</sup>4.123 .....      actual 204-bkg = <sup>0.045</sup>.....      expected resolution = >4200  
<sup>206-200 = 6.125</sup>  
 actual 206-207 = <sup>1.000</sup>.....      actual 206-208 = <sup>2.000</sup>.....      actual resolution = <sup>5216</sup>.....  
 Primary = <sup>2.2 epoxy</sup>3.0 Khan nA    PESABM = ..... pA    actual Primary : PESABM (= 50:1) = .....  
 Raster time (mins): <sup>1</sup>.....    Raster aperture (microns): <sup>120</sup>.....    No. of scans: <sup>6</sup>.....

Comments: Processing 9/6/99: Man-Field calibration was "compressed", but 204 position still looks to be ~ 5mm u too low.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO	<sup>200</sup> 196	206	UO <sub>2</sub>	204Pb	f <sub>206</sub>	Age ±1σ (Ma)		Offsets OK?
			<sup>270/254</sup>	Kcps	cps	ppm Kcps	ppb cps	%	206/238	207/206	
	Kh.9-1	16:35	0.753	.934	1837	13.2	0.6	.46	.104 857	604	✓
	Kh.9-2	16:52	0.76	.945	1843	13.2	0.6	.47	.105	559	✓
	C.10-1	17:24	0.74	1.079	2378	2.73	0.7	.36	.643	2647	✓
	C.11-1	17:50	0.72	1.024	1415	1.61	0.8	.72	.630	2633	✓
	C.12-1	18:15	0.75	1.041	1183	1.41	1.9	2.13	.629	2696	✓
	Kh.9-3	18:34	0.74	.957	1880	13.4	0.6	.45	.104	538	✓
	C.13-1	18:54	0.72	1.029	3065	3.51	1.2	.50	.626	2625	✓
	C.14-1	19:13	0.73	1.018	3838	4.32	0.8	.29	.649	2607	✓
	C.15-1	19:33	0.74	1.103	928	1.086	0.6	.72	.636	2681	✓
	Kh.9-4	19:52	0.73	.992	1952	13.2	0.7	.60	.107	465	✓
	C.16-1	20:12	0.73	1.037	274	289	0.6	2.5	.688	2696	✓

Rejection over-ride	Sample/ Std ID	Time - printout	U <sup>235</sup> /U <sup>238</sup>	<del>206</del> Kcps	206 cps	U <sup>235</sup> ppm	204Pb ppb	f <sup>206</sup> %	Age ±1σ (Ma)		Offsets OK?
			<del>270/254</del>		Kcps		Kcps	cps		206/238 254	
	C17-1	20:32	.72	990	2091	2.27	2.8	1.82	.667	2607	✓
	C18-1	20:51	.73	1.090	1338	1.36	4.3	4.3	.722	2636	✓
	C19-1	21:10	.72	1.082	750	.84	0.6	1.0	.647	2667	✓
	Kh9-5	21:29	.74	.967	1873	13.1	0.8	.67	.106	502	✓
	C20-1	21:50	.72	1.077	1.842	2.08	0.7	.51	.641	2617	✓
	C21-1	22:11	.74	1.020	.494	.55	0.7	2.1	.663	2573	✓
	C22-1	22:33	.70	1.061	307	.33	0.9	4.0	.652	2569	✓
	Kh9-6	22:52	.72	.888	1.763	12.0	0.6	.51	.106	521	✓
	C23-1	23:12	.72	1.107	2824	3.16	1.9	.88	.647	2630	✓
	C24-1	23:31	.72	1.058	1562	1.80	0.8	.59	.626	2620	✓
	Kh9-7	23:50	.75	.924	1812	12.9	0.7	.59	.105	487	✓
→ went on to 98-76 pop D ←											