

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: *5/4/98* ~~98/8~~ UWA Mount No.: *95-13* Whose sample?: *AGM* Operator(s): *McN + AP*

Indicate any change to the following: ²⁰⁰196 204 bkg 206 207 208 ²⁵⁴238 248 ²⁷⁰254

Precambrian Count time (secs): *25* 10 10 10 30/10 10 *5* 5 *25*
 Phanerozoic* Delay time (secs): *78* 3 1 2 1 1 *32* *24* 2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = *32* nanosecs
 actual 196-204 = *4.140* actual 204-bkg = *0.045* expected resolution = >4200
Variable actual 206-207 = *1.001* actual 206-208 = *2.001* actual resolution = *5325*
 Primary = *2.7* nA PESABM = *63* pA actual Primary: PESABM (= 50:1) = *42.9*
 Raster time (mins): *2* Raster aperture (microns): *100* No. of scans: *6*

Comments: *C = 32A/603.7* *A = 32A/588 - v. low U titanites*
NB: 1° dropped progressively during each analysis → looks steady so should be OK
U readings at 300 Hz
1° fell to 2 nA during A. after analysis pop C.
Go To 96-61A at 9pm at latest
NB 1° v. stable once at 2 nA, whereas it stepped-down whilst at 2.7 nA.

Rejection over-ride	Sample/Std ID	Time - printout	UO/Uo ^{270/254}	²⁰⁰ 196 cps	206 cps	UO ₂ ppm ^{Keys}	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 ²⁵⁴ (mean)	207/206	Corr. ²⁰⁶⁻²⁰⁷
	<i>Kh. 1-1</i>	<i>10:45</i>	<i>0.911</i>	<i>1322</i>	<i>1678</i>	<i>11.9</i>	<i>/</i>	<i>1.86</i>	<i>.1280</i>	<i>411</i>	<i>204</i>
	<i>Kh. 2-1</i>	<i>11:03</i>	<i>0.976</i>	<i>1350</i>	<i>1615</i>	<i>11.4</i>	<i>/</i>	<i>.58</i>	<i>.1309</i>	<i>456</i>	<i>"</i>
	<i>Kh. 2-2</i>	<i>11:21</i>	<i>0.927</i>	<i>1373</i>	<i>1601</i>	<i>11.3</i>	<i>/</i>	<i>.48</i>	<i>.1312</i>	<i>558</i>	<i>"</i>
	<i>C. 3-2</i>	<i>11:48</i>	<i>0.756</i>	<i>1185</i>	<i>1539</i>	<i>1579</i>	<i>/</i>	<i>1.75</i>	<i>.7369</i>	<i>2577</i>	<i>"</i>
	<i>C. 3-3</i>	<i>12:08</i>	<i>0.7743</i>	<i>1205</i>	<i>8515</i>	<i>6.7</i>	<i>/</i>	<i>3.86</i>	<i>.9848</i>	<i>2589</i>	<i>"</i>
	<i>kh. 2-3</i>	<i>12:27</i>	<i>0.9243</i>	<i>1318</i>	<i>1575</i>	<i>11.5</i>	<i>/</i>	<i>.67</i>	<i>.1268</i>	<i>477</i>	<i>"</i>
	<i>C. 1-2</i>	<i>12:46</i>	<i>.7975</i>	<i>1120</i>	<i>2468</i>	<i>2739</i>	<i>/</i>	<i>.95</i>	<i>.7188</i>	<i>2581</i>	<i>"</i>
	<i>C. 1-3</i>	<i>13:09</i>	<i>.8208</i>	<i>1753</i>	<i>8.8</i>	<i>10.5</i>	<i>/</i>	<i>.45</i>	<i>.6836</i>	<i>2591</i>	<i>"</i>
	<i>C. 2-2</i>	<i>13:28</i>	<i>.8178</i>	<i>1097</i>	<i>2680</i>	<i>3146</i>	<i>/</i>	<i>.33</i>	<i>.6909</i> .6909	<i>2590</i>	<i>"</i>
	<i>kh. 3-1</i>	<i>13:45</i>	<i>.9435</i>	<i>1347</i>	<i>1703</i>	<i>12.0</i>	<i>/</i>	<i>.52</i>	<i>.1338</i>	<i>518</i>	<i>"</i>
	<i>C. 2-3</i>	<i>14:06</i>	<i>.8323</i>	<i>988</i>	<i>1858</i>	<i>2079</i>	<i>/</i>	<i>.97</i>	<i>.7438</i>	<i>2498</i>	<i>"</i>

increased raster to 2 mins →

1st scan

? delete - non-lin.

PD1 QUIT →

1st scan

Rejection over-ride	Sample/Std ID	Time - printout	UO/UO ₂ 270/254	196 ²⁰⁰ cps	206 cps	UO ₂ ppm Kcps	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 254	207/206	Corr. 206-207
	C.2-4	14:24	.8137	1054	4169	4782	/	.03	0.709	2572	204
	C.2-5	14:41	.8168	1012	4357	4237	/	1.78	0.8400	2495	204
	kh.3-2	15:00	.9043	1276	1651	11.5	/	0.29	0.1325	566	204
	C.6-2	15:33	.8080	929	11802	14.5	/	0.12	0.6565	2578	204
	C.4-2	16:06	.8135	1727	1988	2120	/	0.97	0.7629	2522	204
	C.5-2	16:28	.8452	1263	9272	10.9	/	0.52	0.7196	2532	204
	Kh.4-1	16:46	.9222	1283	1509	10.5	/	0.33	0.8755	551	204
	kh.4-2	18:24	.9952	966	1206	8.2	/	0.76	0.1462	451	204
	kh.5-1	18:42	.9943	982	1152	7.8	/	0.35	0.1479	555 ±	204
	A.1-1	19:06	.9512	1109	34 3318	39 3826	/	-	0.8718	2714	-
	A.1-2	19:30	.9664	1133	27	32	/	0.44	0.8513	2737	204
	A.2-1	19:51	.8971	1122	35	38	/	1.70	0.9176	2554	204
	kh.5-2	20:08	.9951	938	1133	7.6	/	0.98	0.1486	555	204
	A.3-1	20:27	.9107	591	10	10	/	4.71	0.9196	2718	204
	A.4-1	20:47	.9348	1076	13	13	/	-	0.8760	2702	-
	A.4-2	21:06	1.037	1115	13	17	/	1.40	0.8221	2598	204
	kh.6-1	21:25	1.019	1047	937	6535 6431	/	0.64	0.1430	599	204
	B.1-1	21:46	.7665	1098	9	13	/	19.8	0.7266	1623	204
	B.2-1	22:09	.8739	954	29	40	/	11.4	0.7342	2985	204
	B.3-1	22:31	.9103	1087	5	7	/	0.57	0.6154	2303	204
	kh.7-1	22:53	.9901	946	1206	8222	/	0.45	0.1452	557	204
	B.3-2	23:11	.9724	997	8	14	/	-	0.5586 0.0090	2448	-
	B.4-1	23:37	.9057	1026	30	49	/	-	0.5508	2474	-
	B.5-1	23:58	.9000	980	42	60	/	1.41	0.6422	2462	204
	kh.8-1	24:17	1.009	1042	1208	8460	/	0.88	0.1441	445	204

C

Scan 1

last scan

last scan

very steeply non linear!

3.7nA

2nA

Time Break

PDZ

QUIT

A

B

FILE ERROR
Data on file restored from backup

206-207

File

1.001

1.006

1.005

1.005

1.003

1.003

1.004

1.004

1.002

1.003

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