

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 28/9/98 UWA Mount No. 98-22 Whose sample? Yunnan Operator(s) McW + YQ

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	10	²⁰ 30/10* 10	5	5	2
Phanerozoic*	Delay time (secs):	78	3	1	2	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = ...³²... nanoseconds

actual 196-204 = 8.166 actual 204-bkg = 0.045 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.001 actual resolution = 5595

Primary = 4.2 nA PESABM = 52 pA actual Primary : PESABM (= 50:1) = 81

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: B = ZHJK-3
A = PSHL-2
C = PSHL-1

n = 18
std σ = 1.31

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196	206	U	204Pb	f206	Age $\pm 1\sigma$ (Ma)		OFFSETS
				Kcps	cps	ppm	ppb	%	206/238	207/206	196-204 Sum 206-207 206-208
7K/U											8.166
.05	sl. 4-1	10:06	7.02	17.0	2104	220	0.0	/	572 \pm 1	538 \pm 19	1.000 2.001
.05	sl. 4-2	10:22	6.79	17.4	2023	228	0.1	.005	570 \pm 1	561 \pm 21	- " -
1.89	B. 2-1	10:41	7.19	16.5	2258	47.1	0.2	.014	2391 \pm 10	2462 \pm 11	- " -
1.57	B. 4-1	10:58	7.04	16.3	2335	50.9	1.1	.07	2436 \pm 10	2513 \pm 10	- " -
.05	sl. 4-3	11:15	6.81	17.5	2013	226	0.2	.002	567 \pm 1	603 \pm ?	- " -
0.39	B. 5-1	11:31	7.53	13.0	5.7K	129	0.9	.002	2450 \pm 6	2462 \pm 6	- " -
3.03	B. 6-1	11:48	7.00	16.4	2254	46.0	0.5	.03	2607 \pm 11	2546 \pm 10	- " -
2.34	B. 7-1	12:05	7.16	16.5	2330	49.3	-0.4	/	2382 \pm 9	2475 \pm 9	- " -
0.05	sl. 4-4	12:21	6.97	16.0	2019	230	0.3	.03	569 \pm 1	547 \pm 40	- " -
.43	B. 8-1	12:38	7.07	17.2	9.8K	194	-1.4	/	2510 \pm 5	2520 \pm 4	- " -
1.76	B. 9-1	12:54	6.93	17.0	2390	53.5	0.2	.02	2387 \pm 9	2464 \pm 10	- " -

⊕ 75 becoming noisier → 13-3 needs a large change in DMS + to stabilize!

* changed offset back to 8.166 after analysis!!

Mount/sample No: 98-22 Date: 28/9/98 Page No: 2

OFFSETS

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196	206	U	204Pb	f206	Age ±1σ (Ma)		Corr.
				Kcps	cps	ppm	ppb	%	206/238	207/206	
											8.166
	.33 B. 9-2	13:11	7.19	16.4	9.3K	184	0.5	.01	2495±5	2478±5	1.000 2.001
	1.57 B. 10-1	13:29	6.75	17.1	2511	63.0	0.5	-.03	2317±8	2413±10	- " -
	.05 sl 4-5	13:47	6.96	16.8	2081	222	0.2	-.01	582±1	525±23	- " -
	1.93 B. 13-1	14:03	6.87	17.3	4.7K	97.4	-0.7	/	2577±7	2544±6	- " -
	1.06 B. 13-2	14:20	7.19	16.0	4.6K	98.8	0.6	.02	2393±7	2525±7	8.163 * 1.000 2.001
	1.14 B. 13-3	14:40	6.99	15.9	6.7K	142	0.7	.01	2606±6	2575±6	8.162 * 1.000 2.001
	3.99 B. 15-1	14:58	7.06	16.6	1518	30.3	-0.8	/	2574±13	2515±11	8.166 1.000 2.001
	0.05 sl 4-6	15:15	6.84	17.3	2063	228	-0.8	/	572±1	548±19	- " -
<p>Changed Rem Table: 206 → 206cps + 207 → 10cps</p>											
	A. 1-1	15:36	6.76	17.1	275	111	-0.3	/	170±1	1038±60	- " -
	A. 5-1	15:54	6.90	17.9	186	105	2.1	1.38	129±1	125±?	- " -
	sl 4-7	16:11	7.31	16.0	2133	211	0.5	-.05	573±1	556±30	- " -
	A. 3-1	16:28	6.82	17.7	1174	277	-0.2	2.71	263±1	1170±35	- " -
	A. 6-1	16:45	6.97	16.4	301	161	0.1	.05	122±1	303±94	- " -
	A. 31-1	17:04	6.77	17.5	49.5	27	0.4	2.87	122±1	0	"
	A. 7-1	17:28	6.59	17.3	429	250	-0.1	.25	124±1	239±8	"
	A. 8-1	17:48	7.29	14.8	415	197	0.8	.49	129±0.2	296	"
	sl 8-1	18:09	6.59	17.9	1932	231	0.1	.007	169	187	"
	A. 18-1	18:26	6.98	17.1	79	39	0	.001	127	-	"
	A. 19-1	18:46	7.03	17.1	306	148	0.2	.1	127	-	"
	A. 17-1	19:10	6.49	16.9	77	43	0.3	1.10	138	0	"
	A. 16-1	19:32	7.03	15.9	284	150	0.2	.17	124	111	"
	sl 3-2	19:52	6.81	17.3	1990	218	-1.7	/	573	540	"
	A. 10-1	20:13	6.95	16.3	414	215	-0.4	/	128	380	"
	A. 14-1	20:31	6.4	16.	75	52	0.4	0.4	125	125	"



1° dropped -

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.
A	A14a	20:50	7	16.4	425	214	-0.7	✓	127	0	..
	A20	21:11	6.9	17.1	356	190	0	.3	122	0	..
	S13-3	21:31	6.97	15.3	1890	228	-0.6	.01	563	636	..
	A21-1	21:49	5.27	684	92	302	1.4	.79	118	0	..
	S13-4	22:08	7.8	15.6	2023	218	-0.7	0.0	566	546	..
	A22-1	22:27	6.7	15.4	326	172	0.1	.4	147	940	..
	A23-1	22:45	6.54	14.2	2607	158	4.1	.2	1364	1843	..
	A27-1	23:05	7.14	15.9	527	268	-0.5	.13	124	247	..
	A26-1	23:24	6.88	16.4	142	77	0.6	.5	126	0	..
	A29a	23:43	6.49	16.6	2581	156	-0.8	.8	1213	1573	.. 208
C = PSHL-1	S11-1	0:06	6.64	16.9	1887	236	0.6	.03	566	633	8.1650
	S16-1	0:50	6.50	16.7	1917	244	-0.6	✓	594	588	..
	S16-2	1:09	6.63	16.6	1899	234	0.8	.06	573	520	204
	C2-1	1:29	6.95	15.7	516	273	0.7	.2	130	75	208
	C3-1	1:47	6.99	16.	505	163	-0.7	✓	204	211	204
	C5-1	2:07	6.57	17.2	557	327	1.9	.14	126	0	208
	C6-1	2:24	7.2	15.7	769	371	1.2	.2	129	164	208
	S16-3	2:44	7.07	16.	1989	221	0	✓	562	511	✓
	C7-1	3:02	6.84	16.	565	306	3.5	1.2	127	0	..
	C8-1	3:20	6.98	15.5	719	389	0.9	.07	128	159	..
	C10-1	3:58	6.65	16.	339	205	-0.5	.12	127	75	..
	C13-1	4:19	6.26	17.7	183	115	2.4	.79	133	0	..
	C15-1	4:36	7.06	15.1	1963	225	0.9	.07	580	575	204
T unstable	C16-1	4:58	7.51	13.5	523	153	77	22.5	171	0	..
T unstable	C19-1	5:19	7.33	14.7	381	179	0.7	.17	135	0	208.

T^o dropped

T unstable

T unstable

