

Stem dev ds.
n=9 error = 1008

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 9/3/98 UWA Mount No.: 97-30 Whose sample?: S.B. Operator(s): IRF/SB

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

Precambrian Count time (secs): 2 10 10 40 30/10* 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 = 32 nanosecs
 actual 196-204 = 8.173 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4800

Primary = 9 nA PESABM = 75 pA actual Primary : PESABM (= 50:1) = 120
 Raster time (mins): 10 Raster aperture (microns): 100 No. of scans: 7
 sensitivity = 13

Comments: Small aperture
 0- primary
 Retardation lens (→ difficult peak shape adjustment. Peak top not quite symmetrical or flat, but OK for these samples).
 ① - increased raster 30 sec → 1 min

Note: 207 correction indicates there is consistently 10-20% too little 207Pb in zircon.

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.
	sl. 1-11	14:08	5.66	33.1	3257	-	-ve	.01	555	208
	sl. 1-12	14:33	5.57	37.9	3400	221	0.5	.02	575	579 208
①	uA. 19-3	15:10	5.56	37.3	1.4	132	0.4	6.7	0.4	- 207
	A. 19-4	15:35	4.73	40.0	25	159	15.	~60	~4	- 204 207 208
	sl. 1-13	16:03	5.31	37.0	2991	221	0.2	.01	591	538 208
	A. 17-2	16:37	5.61	33.5	0.7	80	-ve	34	0.2	- 207
	A. 20-3	17:03	5.58	32.4	5.7	599	0.8	28	0.4	-
	A. 20-4	17:27	5.51	33.6	1.2	155	0.2	-	0.3	-
	sl. 1-14	18:00	5.18	37.5	2929	241	-0.2	.03	580	525. 208
⑩	A. 25-2	18:29	5.25	30.4	2.8	541	0.5	-	0.3	-
	A. 4-3	19:02	5.49	37.0	0.9	87	0.2	-	0.4	-

log Scan. 206 (unk)

Mount/sample No: Date: Page No:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	A.4-4	19:30	5-47	36.1	2.8	230	0.9	4.2	0.5	207
	A.31-1	20:02	5-73	34.0	1.7	160	0.4	—	0.4	—
	SI.1-15	20:27	5-59	38.3	3373	218	0.0	.03	556	208
CORE	A.28-1	20:58	5-60	37.4	0.8	65	-0.2	—	0.4	—
Rim.	A.28-2	21:32	5-63	38.3	2.7	312	0.7	—	0.3	—
CORE	A.15-3	22:03	5-55	38.0	0.8	61	-0.1	—	0.5	—
Rim.	A.15-4	22:30	5-40	39.4	2.0	234	0.2	—	0.3	—
Resave (10)	SI.1-16	22:55	5-47	39.2	3391	222	0.6	.001	567	208
	A.23-3	23:49	5-34	41.2	3.0	219	-0.1	—	0.5	—
	A.23-4	0:12	5-46	38.1	1.4	147	-0.2	—	0.4	—
	A.11-3	0:46	5-36	42.1	2.2	174	-0.1	—	0.5	—
	A.11-4	1:28	5-40	38.8	0.8	93	0.0	—	0.4	—
	SI.1-17	1:55	5-51	37.0	3382	228	0.1	.009	565	208
CORE	A.10-2	2:44	5-38	38.4	2.8	235	0.1	—	0.5	—
Rim.	A.10-3	3:09	5-29	41.7	1.0	126	-0.1	—	0.3	—
CORE	A.9-2	3:38	5-33	37.9	2.7	291	0.1	—	0.4	—
Rim.	A.9-3	4:01	5-45	39.7	0.9	90	0.0	—	0.4	—
Resave (10)	SI.4-2	4:33	5-40	42.5	3591	222	-0.1	.02	579	208
last scans	A.21-2	5:04	5-41	34.5	283	102	56.1	73	34±1	207
Overlap* with glass inclusion	A.8-2	5:35	5-52	39.7	2.4	205	0.3	—	0.4	—
	A.8-3	5:58	5-51	38.6	0.7	80	0.0	—	0.3	—
	A.27-1	6:28	5-44	42.1	2.1	141	0.9	23.	0.4	207
	SI.4-3	6:52	5-53	39.9	3628	224	-0.1	.003	569	208