

Follows on from 98-20

Baldington

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)							
23/6/98	98-30	MEB/Blake	McN + SB							
Indicate any change to the following:										
		196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	10	30/10	10	5	5	2
Phanerozoic*	Delay time (secs):	78	3	1	2	1	1	3	2	2
expected 196-204 = 8.170 amu		expected 204-bkg = 0.040 amu		Dead-time = nanosecs						
actual 196-204 =		actual 204-bkg =		expected resolution = >4200						
actual 206-207 =		actual 206-208 =		actual resolution =						
Primary = nA		PESABM = pA		actual Primary : PESABM (≈ 50:1) =						
Raster time (mins):		Raster aperture (microns):		No. of scans:						

See 98-20

Comments:

Standards
n=6, 2.08% error
(stds 7-1 & 4-5 excluded).

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.
	97-20 SI. 1-7	20:59	6.71	15.6	2087	220	0.5	-0.5	572	562	208
	97-30 SI. 4-1	21:19	6.76	13.4	1785	226	-0.7	-0.2	540	582	208
	A. 1-1	21:40	6.69	12.9	2183	54	2.6	.13	2513	2764±8	204
	A. 2-1	21:59	6.62	13.3	2031	51	0.2	-0.1	2515	2793±8	204
	SI. 4-2	22:23	6.72	13.8	1785	220	0.4	.04	552	555	208
	A. 3-1	22:41	6.72	13.6	2978	66	0.2	-0.1	2645	2782±6	204
	A. 4-1	23:00	6.63	13.8	2106	49	1.3	-0.7	2564	2772±8	204
	A. 5-1	23:19	6.72	13.5	6558	148	16	.29	2606	2772±5	204
	SI. 4-3	23:38	6.89	12.9	1817	232	1.5	.14	527	510	204
	A. 6-1	23:59	6.82	13.6	1733	36	0.9	-0.7	2692	2760±11	204
	A. 7-1	0:17	6.62	12.9	3571	86	0.0	—	2657	2705±6	—

increases
lighter during run
at returns to same
current for next analysis.
all quite stable
30 nA

P numbers, stable but fluctuates by ±5%
 on early scan, specifically if drops during 196 counts
 & back up on 238 counts.
 → Caution for calib. on stds?

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-7-2	0:37	6.76	13.2	2958	68	6.2	-25	2584	2741±8	204
	A-8-1	0:57	6.76	13.6	2513	56	-0.8	—	2562	2771±7	—
	SI.4-4	1:17	6.88	13.3	1864	228	-0.1	.04	541	542	208
	A-9-1	1:36	6.84	13.4	2280	50	0.2	.01	2571	2754±8	204
	A-10-1	1:54	6.75	13.1	2339	54	2.0	.10	2579	2754±8	204
	A-11-1	2:13	6.69	13.1	6150	153	1.1	.02	2498	2786±5	204
	A-12-1	2:31	6.75	13.1	1472	35	-0.6	—	2542	2772±9	—
	A-13-1	2:47	7.17	13.2	4150	83	3.4	.11	2505	2787±6	204
	A-14-1	3:06	6.78	13.3	1931	44	-0.9	—	2579	2764±8	—
	SI.4-5	3:25	6.76	12.7	1658	236	0.5	.03	511	539	208
	A-15-1	3:44	6.62	13.5	1379	31	2.0	.16	2716	2748±11	204
	A-16-1	4:02	6.83	12.6	1912	45	1.5	.09	2550	2742±9	204
	A-17-1	4:19	7.14	10.8	9059	232	2.4	.03	2434	2742±4	204
	A-18-1	4:38	6.82	13.0	1406	32	0.2	.01	2575	2776±9	204
	A-19-1	4:56	6.83	12.4	1563	37	0.6	.04	2579	2749±11	204
	SI.4-6	5:17	6.75	14.1	1799	221	-0.5	.02	536	557	208
	A-20-1	5:36	6.94	12.7	1971	44	1.8	.11	2542	2765±9	204
	A-21-1	5:54	6.79	11.7	1863	50	0.1	.01	2482	2787±8	204
	A-22-1	6:13	6.88	12.3	2881	69	1.5	.06	2527	2772±7	204
	A-23-1	6:31	6.91	12.5	1454	34	1.1	.09	2525	2768±10	204
	SI.4-7	6:50	6.74	13.6	1781	234	0.6	.05	520	588	208