

TITANITE

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 25/1/98 UWA Mount No.: 97-48 Whose sample?: Jan D Operator(s): McN-JD

Indicate any change to the following: ²⁰⁰196 204 bkg 206 207 208 ²³⁸238 248 254 ²⁷⁰270

Precambrian Count time (secs): 2 10 10 10 30/10* 10 5 5 25 5
 Phanerozoic Delay time (secs): ⁷⁸78 3 1 2 1 1 3 24 2 4

expected ²⁰⁰196-204 = 8.170 amu expected 204-bkg = 0.040⁵ amu Dead-time = ⁵²52 nanosecs
 actual ²⁰⁰196-204 = 4.133 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5028

Primary = 2.9 nA PESABM = 60 pA actual Primary : PESABM (= 50:1) = 48.3
 Raster time (mins): 1(2) Raster aperture (microns): 100 No. of scans: 5
 ↑ changed @ ~ 1 pm.

Comments: C = C85b
 A = GC-3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ₂₀₆ ²⁰⁰ cps	206 cps	204Pb ppm ²⁷⁰ (K)	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
	sl. 1-1	10:47	0.96	1256	1951	13.5%	1.8 .72	— 455±47 204
	sl. 1-2	11:05	0.98	1301	2153	14.1	11.2 4.41	— 547±95 "
	C. 1-1	11:36	1.03	1488	480	1980	45.0 17.2	— 828±348 "
	C. 2-1			low U	high		204	
	sl. 1-3	12:17	0.96	1378	2129	14.4	1.9 .75	— 482±43 204
	C. 36-1	12:32	1.068	1689	378	2005	13.3 5.02	— 1000±139 "
increase raster to 2 mins.	C. 37-1	12:50	1.055	1535	623	3276	7.9 3.08	— 597±112 "
	C. ⁵ 8-1	13:15	1.064	1589	442	2464	4.7 1.85	— 651±150 "
	sl. 1-4	13:33	1.015	1408	2132	14.6	1.4 .55	— 538±39 "
	C. ⁸⁻¹ 8-1	14:04	1.016	1503	625	3400	4.2 1.65	— 627±107 "
	C. 8-2	14:21	1.049	1547	562	3030	5.9 2.33	— 437±167 "

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO (270/254)	²⁰⁰ 196 cps	206 cps	²⁰² (270) 270 ppm cps	204Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C. 9-1	14:45	1.050	1423	546	3058	2.3	.90	-	702 ± 106	204
	C. 9-2	15:04	1.052	1436	528	2977	3.0	1.16	-	700 ± 104	"
	sl. 1-5	15:22	0.990	1320	2088	14.6K	1.3	.52	-	542 ± 39	"
	A. 6-1	15:40	1.053	1289	826	4319	3.6	1.39	-	630 ± 92	"
	A. 9-1	15:58	1.038	1377	815	4422	3.5	1.38	-	571 ± 91	"
	A. 36-1	16:20	1.049	1201	773	4047	2.0	.78	-	742 ± 68	"
	A. 37-1	16:40	0.986	1017	566	2939	8.6	3.45	-	335 ± 191	"
	sl. 1-6	16:59	0.993	1213	1966	14.0K	1.4	.55	-	485 ± 43	"
	A. 38-1	17:18	1.064	1409	475	2589	4.2	1.66	-	525 ± 142	"
	A. 38-2	17:37	1.088	1585	477	2589	4.5	1.75	-	688 ± 131	"
	A. 39-1	17:56	1.006	1167	501	2727	3.6	1.39	-	705 ± 116	"
	A. 38-3	18:14	1.034	1453	488	2567	12.5	4.92	-	521 ± 224	"
	sl. 2-1	18:33	1.007	1532	1867	12.7K	3.7	1.49	-	429 ± 68	"
	A. 16-1	18:52	1.099	1304	720	4028	3.3	1.30	-	493 ± 89	"
	A. 16-2	19:07	1.083	1280	822	4485	3.8	1.50	-	573 ± 102	"
	A. 40-1	19:25	0.975	1167	325	1761	7.4	2.88	-	643 ± 196	"
	A. 40-2	19:43	0.955	1031	321	1754	6.5	2.53	-	713 ± 183	"
	sl. 2-2	20:01	1.012	1436	1673	11.3K	2.7	1.07	-	558 ± 57	"
	A. 41-1	20:32	1.020	1152	526	2803	2.8	1.10	-	696 ± 117	"
	A. 12-1	20:54	1.047	1262	787	4220	3.4	1.33	-	580 ± 98	"
	A. 12-2	21:11	1.023	1247	790	4130	2.4	0.92	-	649 ± 76	"
	A. 11-1	21:28	1.029	1080	462	2556	6.4	2.48	-	745 ± 148	"
	sl. 2-3	21:46	1.002	1340	1686	12.0K	2.7	1.08	-	562 ± 55	"
	A. 42-1	22:05	1.043	1221	801	4249	3.5	1.36	-	539 ± 100	"
	A. 13-1	22:23	1.015	1268	444	2371	5.3	2.04	-	740 ± 140	"

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1° v. unstable
 ~ 2 hrs later, it seems slightly better

	A.13-2	22:39	0.986	1122	384	2081	5.2	1.99	-	787 ± 142	204
	A.14-1	22:59	0.935	1044	761	3594	6.6	2.60	-	534 ± 129	"
	A.14-2	1:25	1.012	1483	1491	10.24	3.9	1.55	-	425 ± 80	"

Bear still extremely unstable - had spent 2 1/2 hrs trying to get better, including changing PbO, but no success.