

UWA DATA LOG: SHRIMP ZIRCON U-Pb

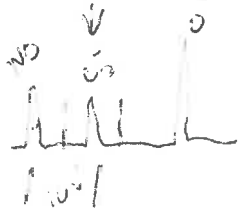
Date: 13/10/48 UWA Mount No.: 98-56 Whose sample?: Jamie L Operator(s): IF + JL

Indicate any change to the following: 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 10 10 ~~10/20~~¹⁰ ~~30/10~~³⁰ 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 = 0.045 amu Dead-time = nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.044 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5880
 Primary = 2.6 nA PESABM = 43 pA actual Primary : PESABM (≈ 50:1) =
 Raster time (mins):
Sensitivity = 2.0 Raster aperture (microns): 120 No. of scans: 6

Comments: ⓐ change integration times for 206, 207. (20 → 10; 10 → 30)



Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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	8.33-1	11:01	6.25	19.0	1754	-	1.1	.081	-	621	✓
	8.33-2	11:14	6.32	19.0	1653	211	-ve	-	544	630	✓
✓	B.39-1	11:39	6.26	18.3	1685	52	0.4	.03	2137	2396	✓ .31
✓	B.39-2	11:59	6.02	19.6	429	15	-ve	-	2039	2158	✓ .22
✓	B.38-1	12:18	6.19	18.1	2241	57	0.9	.05	2569	2553	✓ .58
✓	B.38-2	12:36	6.58	19.0	2828	62	-ve	-	2423	2505	✓ .18
	8.33-3	12:55	6.29	18.5	1705	221	0.5	.04	556	578	✓ OK
✓	B.33-1	13:20	6.20	20.0	696	20.1	0.0	-	2131	2225	✓ .51
✓	B.34-1	13:42	6.34	18.5	257	6.6	0.5	.26	2373	2350	✓ .62
✓	B.35-1	14:00	6.56	18.0	1607	37	1.0	.009	2420	2492	✓ .33
✓	B.35-2	14:18	6.48	18.0	1622	38	0.3	0.02	2445	2502	✓ .34

Rejection over-ride Sample/Std ID Time-printout UO/U 196 Kcps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Offsets OK?

¹⁰P higher than normal!

Rejection over-ride	Sample/Std ID	Time-printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	S116-4	14:37	5.59	21.7	1545	240	0.9	0.07	584	543	
	S116-5	14:55	6.32	17.55	1644	214	0.8	0.07	575	548	✓
✓	B35-3	15:14	6.52	17.41	174	5.7	0.1	0.08	1886	2010	✓
?	B35-4	15:33	6.36	18.17	434	11.4	0.2	0.05	2339	2395	✓
✓	B2-1	15:53	6.14	18.86	1867	49.4	0.9	0.05	2465	2495	✓
✓	B2-2	16:12	6.30	17.86	598	19.5	0.6	0.1	2027	2014	✓
	S116-6	16:32	6.42	18.22	1672	212	0.0	0.02	539	659	✓
✓	B43-1	16:52	6.00	17.85	1593	42	0.3	0.01	2742	2407	✓
✓	B44-1	17:16	6.07	18.43	1281	35	0.0	-	2489	2407	✓
✓	B32-1	17:38	6.06	19.49	1314	33	-	-	2572	2457	✓
✓	B32-2	17:56	6.02	16.95	319	96	0.2	0.00	2542	2427	✓
(!)	S116-7	18:19	5.88	19.58	1549	225	-0.1	-	582	542	✓
S116-8	B116-8	18:40	6.09	19.03	1624	222	-0.4	0.01	571	552	✓
✓	B31-1	19:02	6.89	18.83	423	10.1	0	-	1994	2041	✓
✓	B31-2	19:25	6.09	19.61	463	16.2	-0.8	-	1934	2045	✓
✓	B15-1	19:49	6.22	17.61	741	23.5	0.2	0.02	2243	2149	✓
✓	B15-2	20:08	5.63	18.37	2446	88.8	-0.9	-	2481	2399	✓
	S1856-1	20:29	6.18	19.05	1652	221	0.8	0.07	556 ± 1	579 ± 22	✓
	A-1-1	20:52	6.31	17.74	120	3.4	-0.5	0.1	2308	2366	✓
	A-2-1	21:11	6.85	17.12	407	8.7	-0.3	-	2427	2458	✓
	A-3-1	21:31	5.59	23.31	4885	256	32.7	0.7	1495	1740	✓
	A-4-1	21:52	7.07	18.89	887	16	-0.4	-	2332	2423	✓
	A-5-1	22:13	5.37	11.24	140	11	1.9	0.5	2218	2036	✓
stol	S116-8-2	22:37	6.22	19.32	1648	242	0.07	-	561	495	✓
✓	B15-3	22:57	6.16	18.648	2516	67	-1.2	-	2445	2416	✓

Primary went south

Primary dropped

Mount/sample No: 98-56

Date: 18/10/98

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
✓	B16-1	23:24	6.18	18578	142	4.2	0.5	0.4	2248	2207	✓
✓	B16-2	23:42	6.54	17064	1138	28.4	0.6	0.06	2398	2408	✓
✓	B29-1	00:08	6.42	13200	200	6.2	0.4	0.2	2606	1442	✓
	S115-3-1	00:28	6.19	18335	204	214	-1.3	—	560	572	✓
	C91-1	00:54	6.49	15650	9225	245	51.9	0.6	2445	2140	✓
	C106-1	01:16	6.86	19324	8934	284	4.4	0.08	1534	2368	✓
	C76-1	01:38	6.19	1423	4031	149	124.3	3.3	1625	2233	✓
	C 74 -1	01:59	5.93	16251	2446	107	20.9	0.7	2009	2046	✓
	S115-4-1	02:17	6.47	15101	1460	225	0.4	0.03	526	699	✓
	S115-5-1	02:38	6.06	17402	1501	224	-1.4	—	578	562	✓
	D110-1	02:57	6.09	16804	4405	171	81.2	1.9	1980	2086	✓
	D107-1	03:19	6.00	14314	4485	206	5.2	0.09	2083	2050	✓
	D108-1	04:14	5.25	31441	4214	134	8.8	0.2	2198	2133	✓
	D120-1	04:44	5.48	24011	3092	166	18	0.6	1366	2095	✓
	D120-2	05:14	4.29	10798	4040	70	66	0.1	1378	2035	✓
	D114-1-1	05:35	6.46	10602	1171	240	0.6	0.04	563	505	✓
	D113-1	05:57	6.31	11288	3732	230	48.1	0.9	1415	2165	✓
	D 71 -6	06:19	6.35	9812	3535	209	89.1	0.1	1949	2108	✓
	B-24-1	06:43	6.68	10606	283	10.9	3.0	0.08	2339	2218	✓
	B-50-1	07:06	6.10	10610	788	40	1.2	0.1	2344	2063	✓
	S114-2-1	07:24	6.59	9934	1136	232	-0.6	—	568	550	✓
✓	B.9-1	08:51	6.45	9995	1411	57	1.4	0.07	2582	2403	✓
✓	B.9-2	08:08	6.74	10076	2427	97	0.3	0.09	2316	2324	✓

from 23-10

primary dropped sharply

primary dropped dramatically

primary dropped a little bit



27
20