

UWA SHRIMP DATA LOG

Date: 12/11/99 UWA Mount No.: 99-59 Whose sample?: Nval Operator(s): McN + AR

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 ⁴⁰ 10 ~~5~~ 5 2 2
Phanerozoic* Delay time (secs): 8 3 1 2 1 1 9 ~~24~~ 2 3

Steel: Wein volts / nA = 71V/9.9 for O⁻; = 48V/2.4 for O₂⁻; = 38V/5.5 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4678

aperture = 100? microns retardation lens = 0 volts

Expected offsets (amu): ²⁰⁰196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰⁰196-204 = 4.139 204-bkg = 0.045 204-206 = 2.000

206-207 = 1.000 206-208 = 1.999

Primary-epoxy = 2.2 nA Primary-CZ3 = ^{kh}3.2 nA PESABM-CZ3 = ^{kh}63 pA

Raster time (mins): 1 Raster aperture (microns): 100 No. of scans: 6

Comments: Priorities = A, B, E, D, C, F

① 1° dropped during run
 ② 1° a bit unstable

Processing note: kh 2-1 and 2-2 are anomalous, for no apparent reason. Both were not used.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/Uo ²⁰⁰		206 cps	²⁷⁰ U		204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma)		Offsets OK?
			196 Kcps	270/ ²⁵⁴ Kcps		206 ppm	207/206			207/206		
	① Kh.1-1	10:40	.984	1089	2179	14.2	0.7	.46	.153	557	✓	
	Kh.1-2	10:58	.987	1305	2299	14.1	0.6	.43	.163	554	✓	
	② A.1-1	11:18	1.113	1611	416	753	0.2	.42	.553	1435	✓	
	Kh.1-3	11:35	.991	1310	2265	14.0	0.7	.46	.162	497	✓	
	A.2-1	11:53	1.041	1551	482	866	0.2	/	.557	1588	✓	
	A.3-1	12:11	.930	864	579	1166	0.1	/	.496	1621	✓	
	A.4-1	12:29	1.128	1704	701	1300	0.2	.15	.539	1612	✓	
	kh.1-4	12:47	.995	1254	2200	13.5	1.0	.67	.163	405	✓	

SWITCHED to NO⁻ BEAM + CHANGED 207 to 40secs

10 a. bit noisy

at 10²

W

changed to NO⁻ beam; changed ct time for 207 to 40secs.

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ₀		206 cps	UO ₂		204Pb ppb cps	f206 %	Age ±1σ (Ma)		Offsets OK?
			270/254	196 Kcps		ppm Kcps	206/238			207/206		
			*							*		
	kh.1-5	13:29	.766	2579	3061	22.2	1.0	.45	.138	546	✓	
	A.4-2	13:48	.819	2736	618	1350	0.8	1.73	.458	1413	✓	
	kh.1-6	14:08	.748	2681	2927	21.5	0.9	.45	.136	528	✓	
	A.5-1	14:26	.814	3794	1138	2479	0.2	.06	.459	1564	✓	
	A.6-1	14:46	.831	3041	1604	3444	0.5	.31	.466	1584	✓	
	kh.1-7	15:05	.762	2449	2990	22.1	1.4	.71	.135	421	✓	
	A.7-1	15:26	.869	3260	1155	2432	0.5	.51	.475	1544	✓	
	A.8-1	15:46	.825	3109	955	1796	0.4	.38	.476	1577	✓	
	A.9-1	16:05	.826	3653	2116	4510	0.4	.09	.468	1574	✓	
	kh.7-1	16:24	.788	2963	2116	15.2	1.8	1.1	.139	534	✓	
1st Scan	A.10-1	16:42	.917	3668	966	2005	0.3	.21	.482	1569	✓	
	A.11-1	17:04	.820	2984	939	1937	0.2	-	.485	1562	✓	
	A.12-1	17:23	.809	3145	801	1718	0.4	.28	.466	1524	✓	
	kh.1-8	17:41	.756	2403	2986	21.4	1.2	.58	.139	472	✓	
	A.13-1	18:01	.838	3780	806	1972	1.1	1.4	.409	1545	✓	
	A.14-1	18:20	.827	3737	2908	6198	0.4	.09	.469	1593	✓	
	A.15-1	18:51	.841	3132	1736	3341	1.4	1.04	.517	1532	✓	
	kh.7-2	19:10	.775	2845	2035	14.8	1.8	1.3	.137	516	✓	
	A.16-1	19:29	.884	3348	3781	7839	0.4	.10	.482	1564	✓	
	A.17-1	19:49	.817	3595	1276	2747	0.4	.07	.465	1622	✓	
	A.18-1	20:09	.816	3222	2135	4531	0.3	.04	.471	1581	✓	
	kh.1-9	20:28	.793	3113	3438	249	1.2	.50	.138	515	✓	
	A.19-1	20:51	.863	3522	1264	2661	0.3	.06	.475	1597	✓	
	A.20-1	21:11	.838	3639	2564	5481	0.5	.10	.468	1569	✓	
	A.21-1	21:32	.836	3311	2518	5310	0.4	.13	.474	1587	✓	

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Rejection over-ride Sample/Std ID Time - printout $UO/U3$ ²⁰⁰ ~~196~~ _{270/254} Kcps 206 cps UO_2 ^{ppm} _{Kcps} $204Pb$ ^{ppb} _{CPS} f206 % Age $\pm 1\sigma$ (Ma)
 206/238 207/206 Offsets OK?

Rejection over-ride	Sample/Std ID	Time - printout	$UO/U3$ ²⁰⁰ 196 _{270/254} Kcps	206 cps	UO_2 ^{ppm} _{Kcps}	$204Pb$ ^{ppb} _{CPS}	f206 %	Age $\pm 1\sigma$ (Ma) 206/238 207/206	Offsets OK?		
	<i>mislabelled. kh-23</i> Kh-2-3	21:51	.793	2921	2423	17.6	2.0	1.2	.138	441	✓
	<i>kh-22-1</i> A22-1	22:20	.841	3806	4318	9022	0.3	—	.479	1581	✓
	<i>kh-23-1</i> A23-1	22:42	.711	1761	1897	4175	0.2	—	.454	1607	✓
A	<i>kh-24-1</i> A24-1	23:03	.841	3141	6717	14.3	0.2	—	.470	1601	✓
B	<i>1st Scan</i> B1-1	23:23	.777	3635	821	1897	0.1	—	.433	1545	✓
	<i>1st ThO</i> Kh1-10	23:45	.783	2777	3426	25.1 ^k	1.0	.43	.137	531	✓
	B2-1	00:09	.755	2792	1195	2737	0.3	.20	.436	1531	✓
	B3-1	00:32	.815	3868	1194	2621	0.2	—	.456	1579	✓
	B4-1	00:58	.498	3734	633	1778	0.3	.31	.356	1472	✓
	Kh7-4	1:17	.771	2420	1886	13.5 ^k	2.0	1.5	.139	494	✓
	B5-1	1:44	.815	3669	1759	3594	0.3	.09	.490	1690	✓
B	B6-1	2:10	.832	3342	1391	2736	0.4	.28	.509	1677	✓
	E1-1	2:33	.791	2484	738	1517	0.5	.54	.486	1579	✓
	<i>1st ThO</i> K1-11	2:52	.776	2755	3434	25.6 ^k	1.5	.70	.134	485	✓
	E2-1	3:14	.919	3343	722	1525	0.2	—	.473	1576	✓
	E3-1	3:51	.774	2786	345	755	0.1	—	.472	1624	✓
	E4-1	4:11	.861	3499	665	1485	0.3	.42	.448	1537	✓
	<i>1st Scan</i> Kh7-5	4:29	.810	3367	2241	16.2 ^k	2.1	1.4	.139	463	✓
	E5-1	4:48	.794	2740	962	2039	0.3	.26	.472	1549	✓
E	E6-1	5:12	.812	2425	986	2064	0.2	—	.478	1599	✓
B	B7-1	5:32	.793	4182	1614	3605	0.3	.18	.448	1531	✓
	<i>1st Scan</i> Kh2-1	5:52	.582	1018	1705	13.5	0.0	.95	.126	505	✓
	<i>1st Scan</i> B8-1	6:18	.783	3523	714	1592	0.2	—	.448	1578	✓
	B9-1	6:39	.803	3704	1347	2990	0.2	.04	.468	1586	✓
	<i>1st Scan</i> B10-1	7:03	.785	4840	1176	2685	0.3	.17	.438	1597	✓

mislabelled. kh-23

kh-22-1

kh-23-1

kh-24-1

1st Scan

1st ThO

1st Scan

1st ThO

1st Scan

1st Scan

1st Scan

1st Scan

1st Scan

mislabelled 96" E"5.

