

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 5/10/95      UWA Mount No.: 95-27      Whose sample?:      Operator(s): IF + MR.

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b>	Count time (secs):	2	10	10	10	30	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
<b>Phanerozoic</b>	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	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 = 8.168      actual 204-bkg = 0.045      expected resolution = >4200  
 Primary = 2.9 nA      PESABM = 54 pA      actual resolution = 4785  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 54

Comments: *Only road map photos available when analyses started. No - keep the "x" label. The pops. are not identified on road map, so first group is labelled "X". Will need to fix labels in data files.*

Sample X = B = 163.3  
" Y = C = 127

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	Corr.
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206, 207, 248	sl 527.4-1	10:48	5.74	29K	2319	-	5.1	0.3	-	545	208
196, 206, 208, 238, 254	4-2	11:13	5.81	27	2200	-	5.3	0.4	-	561	208
196, 206	u. 527X.H	11:37	5.80	28	11K	422	3.4	0.05	1379	1517	204
207, 208	1-2	12:01	5.97	27	11K	386	1.9	0.03	1471	1497	204
196, 207, 208, 238	2-1	12:25	5.72	30	8K	283	4.5	0.1	1437	1526	204
207, 238	sl 4-3	12:49	5.48	32	2052	223	5.4	0.3	556	611	208
248, 254	u. X 3-1	13:14	6.11	26	12K	461	1.3	0.02	1221	1416	204
196, 207, 238, 254	X 4-1	13:38	5.93	27	10K	338	1.2	0.02	1435	1499	204
206	X 5-1	14:01	5.84	27	10K	361	1.6	0.03	1495	1514	204
238, 254	X 4-2	14:25	5.76	28	7K	264	1.6	0.04	1402	1509	204
196, 206, 207, 208, 238, 254	sl 3-1	14:50	5.83	26	2287	224	0.6	0.1	561	708	208
196											
204, 206, 208, 238, 254											

Big dips in U, Pb but Zr<sub>2</sub>O is OK.

Raster 70 → 100 μ.

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.
	u. X.13	15:14	5.91	26	6008	208	13.	0.4	1500	1518	204
	X.6-1	15:34	5.98	26	11K	362	0.6	0.01	1481	1516	204
	X.6-2	16:02	5.87	28	7K	230	4.3	0.1	1466	1521	204
	X.7.1	16:27	5.78	28	8K	278	21.	0.5	1488	1518	204
	X.8-1	16:52	5.79	31	6560	207	1.9	0.06	1500	1536	204
	sl. 3-2	17:15	5.82	29	2386	230	3.1	0.1	560	590	208
	u. X.9-1		about				204 counts	>100			
	X.9-2										
	X.10-1	17:52	5.70	30	6130	218	4.9	0.1	1448	1530	204
	X.11-1	18:15	5.75	27	3562	124	1.9	0.1	1565	1541	204
	X.12-1	18:44	5.90	27	13606	449	-0.3	-	1512	1531	no common Pb correction
	u. X.13-1	19:07	5.76	31	11436	360	8.1	0.1	1479	1515	204
	sl. 527-3A-1	19:34	5.85	27	2383	232	0.9	0.06	555	569	208
	u. X.14-1	20:00	5.98	26	11707	372	1.0	0.01	1531	1524	204
	X.14-2	20:22	6.13	25	12089	474	1.7	0.02	1216	1427	204
	X.15-1	20:46	5.85	27	10018	334	1.0	0.01	1530	1531	204
	X.16-1	21:09	5.74	27	7685	270	-0.1	-	1538	1530	no common Pb correction
	X.17-1	21:33	6.20	25	10937	585	2.9	0.05	886	1238	204
	sl. 527-3A-2	21:57	5.90	27	2401	228	0.6	0.06	559	525	208
	u. y. 1-1	22:24	6.23	30	13686	470	5.3	0.09	1132	1358	204
	u. y. 2-1	22:47	5.86	27	13819	463	1.3	0.01	1528	1525	204
	u. y. 3-1	23:11	6.09	24	23688	1826	5.7	0.04	688	953	204
	u. y. 3-2	23:38	5.40	32	8717	343	4.4	0.07	1476	1508	204
	u. y. 4-1	00:02	6.10	28	3732	113	0.8	0.04	1404	1542	204
	sl. 527-3A-3	00:29	5.96	26	2334	229	1.1	0.1	548	595	208

Disc distinct  
wore  
Rim

196, 206(4), 238(3)  
248(5) 254(7)

no common Pb correction

no common Pb correction

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
204, 206,	u.y.5-1	00:54	5.96	26	11231	384	1.3	0.02	1446	1493	204
196, 207, 248,	u.y.6-1	01:16	6.23	29	9529	266	15.5	0.3	1410	1490	204
206, 207 208, 248	u.y.7-1	01:40	5.89	29	5303	230	30	1.2	1094	1524	204
196, 204, 208	y.7-2	02:05	5.53	29	3330	144	9.3	0.44	1329	1513	204
206, 207, 208 238, 248, 254	y.8-1	02:29	5.57	28	5756	231	1.3	0.03	1487	1537	204
196, 207 238, 254	527.3A4	02:53	5.81	27	2309	237	0.7	0.1	557	579	208
196, 206 208, 238	y.9-1	03:21	5.64	32	4163	135	1.7	0.07	1513	1515	204
204, 206, 207 208, 238, 254	y.10-1	03:44	5.61	27	7489	294	1.1	0.02	1511	1521	204
206, 207 208 238 248 254	y.11-1	04:06	5.77	27	3796	136	0.6	0.02	1500	1553	204
196,	y.12-1	04:30	5.68	28	12785	455	5.5	0.07	1517	1543	204
754	527.3A5	04:56	5.83	27	2312	233	1.2	0.1	555	548	208
196, 204, 206 238, 248	y.13-1	05:20	5.90	26	12202	484	5.0	0.07	1322	1476	204
206, 238 254	y.14-1	05:45	5.68	28	4892	177	1.1	0.03	1486	1528	204
206, 207, 208 238, 248, 254	y.14-2	06:07	5.73	27	6575	244	2.9	0.07	1485	1514	204
196, 204, 206 207, 208, 238	y.15-1	06:30	6.11	25	12535	549	16.1	0.2	1126	1417	204
196, 204, 206, 238	y.15-2	06:52	5.61	28	9649	379	2.1	0.03	1473	1525	204
204, 206 207, 238, 254	527.2-1	07:18	6.03	26	2267	218	1.6	0.1	540	505	208
196, 204, 206 206, 248, 254	y.16-1	07:42	5.57	28	7400	322	9.0	0.1	1381	1533	204
204, 238,	y.16-2	08:04	6.01	27	6887	219	12.2	0.3	1486	1545	204
207, 254	y.17-1	08:26	5.71	27	13466	494	2.0	0.02	1517	1538	204

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