

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 27/9/96 UWA Mount No.: 96-57 Whose sample?: POZLARD Operator(s): IF + JS

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): 8 3 ✓ 1 ✓ 2 ✓ 1 ✓ 1 ✓ 3 ✓ 2 ✓ 2 ✓

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time =3.2..... nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.042 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4885
 Primary = 2.7 nA PESABM = ~~4.4~~ pA actual Primary: PESABM (= 50:1) = 61
 Raster time (mins): 3 Raster aperture (microns): 120 No. of scans: 6

Comments: Some common Pb around! ~~at top~~ and also there's a bit of stage vibration } => longer, wider raster.

Zr/U = 1.93668
UO/U = 7.01266
Pb*/U = 0.240203
n = 11
σ = 0.73 %

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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	sl 657.3-1	10:47	7.31	15.7	2187	-	3.3	.23	-	574	208
	3-2	11:06	7.13	16.5	2168	220	3.3	.21	565	584	208
	u 657C.14	11:31	6.92	16.2	1326	49	3.1	.34	1617	<u>1730</u>	204
	C.2-1	11:52	6.66	15.7	1520	66	5.5	.46	1592	1661	204
	sl 3-3	12:13	7.01	15.7	2015	230	1.4	.09	565	568	208
	u C.3-1	12:33	6.87	15.8	1296	47	4.4	.48	1695	1614	204
	4-1	12:52	6.74	15.7	1576	62	5.1	.43	1691	1656	204
	5-1	13:16	6.75	15.8	1014	39	4.8	.64	1696	1634	204
	6-1	13:56	6.93	14.8	1648	64	6.8	.56	1660	1642	204
	sl 4-1	14:05	6.90	16.3	1870	218	1.6	.11	559	550	208
<u>Delete 1st U</u>	u C.7-1	14:28	7.06	15.5	719	25	4.4	.92	1642	1671	204

Delete because it is the extreme (highest age) of the 5 stds
Restore all

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 K cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Corr.
	<i>Restored all</i> u C.8-1	14:48	6.62	19.6	951	36	5.2	.79	1620	1643	204
	C.9-1	15:07	7.55	14.2	1552	50	2.3	.25	1638	1669	204
	10-1	15:27	6.97	15.1	1025	39	3.9	.54	1647	1672	204
	11-1	15:52	6.58	16.2	832	35	2.9	.45	1653	1668	204
	sl 2-1	16:17	6.87	16.1	1888	229	4.9	.21	557	601	208
	u C.12-1	16:41	7.01	15.0	972	37	2.7	.40	1626	1691	204
	13-1	17:01	7.62	13.9	1605	51	2.3	.24	1673	1674	204
	14-1	17:26	7.93	14.9	2804	115	4.9	.35	1229	1638	204
	15-1	17:52	6.81	15.7	1414	56	1.8	.18	1632	1701	204
	16-1	18:11	7.09	14.9	1540	57	1.9	.18	1639	1680	204
	sl 3-4	18:32	7.09	15.7	2016	223	3.3	.14	564	560	208
	u C.17-1	18:53	6.98	15.3	631	23	4.4	1.0	1678	1611	204
	18-1	19:13	7.03	14.9	1164	43	6.0	.73	1673	1626	204
	19-1	19:36	7.11	14.9	1096	39	3.8	.50	1676	1660	204
	20-1	19:56	7.03	16.3	800	30	1.7	.33	1516	1777	204
	21-1	20:15	6.79	15.4	1300	52	4.4	.45	1665	1649	204
	sl 1-1	20:36	7.11	15.3	1912	220	0.2	.10	552	596	208
	u C.22-1	20:56	7.78	14.1	2043	61	2.6	.23	1658	1666	204
	u 657C23-1	21:16	7.13	16.1	619	21	6.3	1.61	1593	1760	204
	C.24-1	21:48	6.77	15.8	1953	86	2.4	0.16	1480	1644	204
	C.25-1	22:11	7.34	14.8	1468	49	1.0	0.10	1624	1729	204
	C.26-1	22:35	6.24	17.0	1083	66	5.9	0.61	1298	1650	204
	sl 1-2	22:57	7.07	15.6	1960	224	1.5	0.11	550	621	208
	C.27-1	23:18	7.13	15.4	3042	107	3.0	0.15	1626	1679	204
	C.28-1	23:40	6.62	16.6	1330	54	4.2	0.42	1619	1658	204

*a bit
non-
linear**a bit
non-
linear**Drooping rather
quickly**rather
non-
linear**rather
non-
linear*

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.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 /cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238	207/206	Corr.
Restore all	C29-1	0000	6.84	15.3	1059	44	7.4	0.94	1564	1645	204
	C30-1	0633	6.66	18.5	2338	93	8.9	0.57	1477	1676	204
	C31-1	0059	6.90	16.0	3048	111	5.0	0.23	1652	1684	204
	sl 1-3	0121	6.84	15.9	1927	235	0.1	0.05	559	594	208
	C32-1	0146	6.28	17.0	1272	55	-0.3	—	—	1702	
	C33-1	0214	6.40	16.1	1122	49	4.3	0.44	1720	1669	204
	C34-1	0236	6.89	15.7	1625	61	2.9	0.25	1638	1653	204
	C35-1	0259	7.32	15.2	3615	122	4.8	0.21	1605	1682	204
	C36-1	0330	7.23	15.1	1325	45	4.2	0.50	1655	1704	204
	sl 1-4	0431	6.95	15.9	1923	224	1.8	0.18	557	592	208
	C37-1	0452	6.76	15.5	1151	48	4.5	0.5	1584	1680	204
	C38-1	0513	6.77	13.1	1064	121	23.3	2.5	718	1602	204
	C39-1	0537	7.17	15.0	664	23	4.4	1.01	1636	1639	204
	C40-1	0556	7.32	14.5	2227	76	1.8	0.12	1645	1664	204
	C41-1	0615	6.85	16.2	1614	60	1.0	0.09	1637	1702	204
	sl 1-5	0635	7.01	15.3	1920	231	1.1	0.06	549	583	208
	C42-1	0656	6.80	15.5	1024	42	4.9	0.15	1589	1642	204
	C43-1	0716	7.26	14.6	1495	52	2.1	0.21	1440	1678	204
	C44-1	0736	6.88	16.3	1368	62	20.1	2.17	1322	1572	204
	C45-1	0800	6.95	16.1	1858	85	1.7	0.10	1621	1690	204
	sl 1-6	0820	7.09	15.0	1936	225	1.7	0.04	561	630	208

Droping family first
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