

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 24/4/97 UWA Mount No. 96-57 Whose sample? 1F+CY Operator(s)

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 = 32 nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.041 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 4990
 Primary = 3.0 nA PESABM = 46 pA actual Primary : PESABM (≈ 50:1) = 65
 Raster time (mins): 2 Raster aperture (microns): 1.00 No. of scans: 6

Comments: Late start due to installation of backup computer etc.
 *NB date on printouts = 27/8/1956!

B: n = 7
 A: n = 35

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 k cps | 206 cps | U ppm | 204Pb ppb | f206 % | Age ±1σ (Ma) 206/238 207/206 | Corr. | |
|---|----------------|-----------------|------|-----------|---------|-------|-----------|--------|------------------------------|---------|-----|
| 206 | sl 3-1 | 20:32 | 6.64 | 19.3 | 2204 | - | 1.1 | .02 | 533 | 208 | |
| 196 & 206 | sl 3-2 | 21:14 | 6.37 | 20.6 | 2180 | 231 | 1.4 | .05 | 573 | 559 | 208 |
| 196 204 206 207 238 254 208 248 254 | u 657.B.H | 21:34 | 7.61 | 15.7 | 221K | 515 | 49. | .42 | 1856 | 2129 | 204 |
| 206 238 248 254 | B.2-1 | 22:06 | 6.37 | 21.5 | 439 | 14 | 4.4 | 1.06 | 1665 | 1684 | 204 |
| 196 206 | B.3-1 | 22:28 | 6.63 | 18.7 | 2.1K | 69 | 3.4 | .25 | 1723 | 1685 | 204 |
| 196 206 207 254 | sl 3-3 | 22:46 | 6.31 | 20.6 | 2.1K | 234 | 0.5 | .04 | 568 | 550 | 208 |
| 196 204 207 238 248 254 | B.4-1 | 23:06 | 7.17 | 17.9 | 12K | 365 | 16. | .24 | 1554 | 2042 | 204 |
| - | B.5-1 | 23:27 | 6.57 | 18.1 | 1015 | 34.5 | 1.3 | .19 | 1698±8 | 1696±20 | 204 |
| 196 248 | B.6-1 | 23:50 | 6.52 | 18.0 | 1260 | 43.3 | 3.0 | .35 | 1725±7 | 1686±23 | 204 |
| 196 204 206 254 fail | B.7-1 | 00:08 | 6.86 | 13.8 | 27K | 759 | 1283 | 5.63 | 2128±3 | 2602±6 | 204 |
| 196 206 254 | sl 1-1 | 00:29 | 6.57 | 19.9 | 2114 | 217.9 | 1.2 | .15 | 556±11 | 605±17 | 208 |

1° slightly variable →

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 kcps | 206 cps | U ppm | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) 206/238 207/206 | | Corr. |
|---|----------------|-----------------|------|----------|---------|-------|-----------|--------------------|---------------------------------|--------|-------|
| 196 204 208 → 254 *206, 207 fac/ | A.1-1 | 00:48 | 6.27 | 20.2 | 10.6K | 255 | 2.6 | .03 | 2347±4 | 2508±4 | 204 |
| 196 206 238 | sl.1-2 | 1:07 | 6.48 | 19.9 | 2126 | 227 | 0.5 | .03 | 562±1 | 603±17 | 208 |
| 196 204 206 → 254 | A.2-1 | 1:26 | 7.00 | 16.5 | 13K | 362 | 4.8 | .06 | 1851±3 | 2174±4 | 204 |
| 196 206 208 238 → 254 *248 fac/ | A.3-1 | 1:44 | 6.49 | 18.3 | 9450 | 202 | 2.6 | .04 | 2586±5 | 2621±4 | 204 |
| 206 → 238, 254 *248 fac/ | A.4-1 | 2:02 | 6.49 | 21.4 | 7215 | 155 | 8.0 | .18 | 2249±5 | 2423±5 | 204 |
| 206 204 248 254 | A.5-1 | 2:21 | 6.92 | 17.7 | 11.3K | 241 | 3.3 | .05 | 2269±4 | 2461±4 | 204 |
| 206 → 254 | A.6-1 | 2:39 | 6.59 | 20.1 | 12.6K | 271 | 5.8 | .07 | 2269±4 | 2387±4 | 204 |
| 196 206 | sl.1-3 | 2:57 | 6.28 | 22.1 | 2318 | 233 | 0.0 | - | 593±1 | 522±15 | - |
| 196 204 206 207 238 254 | A.7-1 | 3:17 | 7.15 | 16.7 | 13.6K | 419 | 2.0 | .03 | 1589±2 | 1952±4 | 204 |
| 206 248 | A.8-1 | 3:35 | 6.44 | 20.2 | 8671 | 173 | 1.3 | .02 | 2564±5 | 2582±4 | 204 |
| 196 206 208 *238 → 254 fac/ | A.9-1 | 3:53 | 6.82 | 16.9 | 12.2K | 426 | 14.9 | .19 | 1877±2 | 2021±5 | 204 |
| 196 206 208 → 254 *207 fac/ | A.10-1 | 4:11 | 6.97 | 16.6 | 14.6K | 404 | 8.1 | .09 | 1877±3 | 2189±4 | 204 |
| 196 206 208 238 → 254 *207, 209 → 208 fac/ | A.11-1 | 4:29 | 6.53 | 19.1 | 24.1K | 360 | 621 | 3.62 | 3183±5 | 2572±6 | 204 |
| 196 206 254 | sl.1-4 | 4:47 | 6.27 | 21.0 | 2175 | 232 | -0.1 | .03 | 587±1 | 563±17 | 208 |
| 196 206 → 254 | A.12-1 | 5:06 | 6.88 | 18.9 | 11.4K | 240 | 2.0 | .03 | 2191±4 | 2384±4 | 204 |
| 196 204 206 208 238 | A.13-1 | 5:23 | 6.92 | 17.8 | 11.7K | 267 | 7.1 | .10 | 2146±3 | 2327±4 | 204 |
| *208, 209 → 254 fac/ | A.14-1 | 5:42 | 6.56 | 19.8 | 10.5K | 231 | 11.5 | .16 | 2292±4 | 2449±4 | 204 |
| 206 207 238 254 *206 fac/ | A.15-1 | 6:01 | 6.44 | 20.4 | 8674 | 167 | 0.5 | .01 | 2619±5 | 2653±4 | 204 |
| 196 206 208 238 | A.16-1 | 6:19 | 6.33 | 18.9 | 11.1K | 249 | 3.7 | .04 | 2576±5 | 2538±4 | 204 |
| *207, 209 254 fac/ | sl.1-5 | 6:38 | 6.44 | 20.1 | 2144 | 220 | 1.1 | .17 | 585±1 | 563±17 | 208 |
| 196 206 208 → 254 | A.17-1 | 6:56 | 6.93 | 16.3 | 13.8K | 419 | 14.9 | .17 | 1779±2 | 2035±4 | 204 |
| 196 204 206 208 238 254 *207, 209 → 254 fac/ | A.18-1 | 7:14 | 6.83 | 19.5 | 12.7K | 339 | 5.9 | .08 | 1773±2 | 2077±4 | 204 |
| 196 204 238 → 254 | A.19-1 | 7:32 | 7.24 | 16.9 | 13.6K | 354 | 2.9 | .04 | 1769±2 | 2022±4 | 204 |
| 196 206 207 238 → 254 | A.20-1 | 7:51 | 7.16 | 18.3 | 12.1K | 250 | 5.8 | .09 | 2073±3 | 2334±4 | 204 |
| 196 206 207 238 → 254 | A.21-1 | 8:09 | 6.56 | 21.1 | 5748 | 101 | 3.5 | .09 | 2619±6 | 2628±5 | 204 |

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps | 206 cps | U ppm | 204Pb ppb | f ₂₀₆ % | Age ±1σ (Ma) 206/238 | 207/206 | Corr. |
|---|----------------|-----------------|------|---------|---------|-------|-----------|--------------------|----------------------|----------|-------|
| | 196 206 | | | | | | | | | | |
| | s1 1-6 | 8:27 | 6.52 | 18.8 | 2131 | 227 | -0.1 | .03 | 585 ± 1 | 553 ± 17 | 208 |
| 196 206 → 254 | A 22-1 | 8:46 | 6.65 | 19.9 | 11.6K | 214 | 8.8 | .12 | 2557 ± 5 | 2583 ± 4 | 204 |
| Del hist data 206 → 238, 254 * 201 fail | A 23-1 | 9:04 | 6.96 | 20.0 | 13.4K | 275 | 156 | .23 | 2077 ± 3 | 1949 ± 4 | 204 |
| 196 206 * 201 fail | A 24-1 | 9:23 | 6.53 | 22.4 | 10.4K | 215 | 3.3 | .05 | 2208 ± 4 | 2405 ± 4 | 204 |
| 196 206 * 201, 208 → 254 fail | A 25-1 | 9:42 | 6.75 | 17.8 | 11.2K | 256 | 3.2 | .04 | 2267 ± 4 | 2427 ± 4 | 204 |
| 196 206 * 208 → 274 | A 26-1 | 10:00 | 6.82 | 19.4 | 12.2K | 267 | 3.9 | .05 | 2124 ± 3 | 2274 ± 4 | 204 |
| 196 206 | s1 2-1 | 10:19 | 6.08 | 21.4 | 2081 | 243 | 1.2 | .04 | 580 ± 1 | 538 ± 17 | 208 |
| 196 206 * 248 | A 27-1 | 10:37 | 7.04 | 17.9 | 12.5K | 286 | 25.0 | .35 | 2009 ± 3 | 2200 ± 5 | 204 |
| 196 238 → 254 | A 28-1 | 10:55 | 6.89 | 18.9 | 10.2K | 210 | 2.6 | .04 | 2229 ± 4 | 2446 ± 4 | 204 |
| 196 206 * 201, 208 fail | A 29-1 | 11:12 | 6.67 | 19.8 | 9281 | 204 | 2.0 | .03 | 2203 ± 4 | 2449 ± 4 | 204 |
| 206 207 * 238 → 254 | A 30-1 | 11:32 | 6.71 | 18.8 | 10.9K | 234 | 3.7 | .05 | 2312 ± 4 | 2473 ± 4 | 204 |
| 196 206 * 201, 208, 248 fail | A 31-1 | 11:53 | 6.92 | 17.7 | 13.0K | 294 | 3.0 | .04 | 2147 ± 3 | 2311 ± 4 | 204 |
| 196 | s1 4-1 | 12:12 | 6.39 | 20.7 | 2071 | 215 | 0.4 | .07 | 578 ± 1 | 534 ± 17 | 208 |
| 196 206 * 207 * 248 → 254 | A. 32-1 | 12:31 | 7.26 | 17.3 | 13.0K | 333 | 4.3 | .06 | 1750 ± 2 | 2132 ± 4 | 204 |
| 196 206 | A. 33-1 | 12:48 | 6.79 | 18.1 | 10.4K | 264 | 2.6 | .04 | 2003 ± 3 | 2266 ± 4 | 204 |
| 206 254 * 248 fail | A. 34-1 | 13:06 | 6.18 | 21.1 | 5.8K | 124 | 2.3 | .05 | 2592 ± 6 | 2660 ± 5 | 204 |
| 196 206 * 207 * 208, 238 fail | A. 35-1 | 13:24 | 6.95 | 18.1 | 10.6 | 259 | 0.6 | .01 | 1954 ± 3 | 2447 ± 4 | 204 |
| 196 206 * 206 fail | s1. 4-2 | 13:42 | 6.20 | 20.6 | 1939 | 224 | 1.1 | .06 | 575 ± 1 | 624 ± 17 | 208 |

Sam →

end ~ Q: 4 Sam