## UWA DATA LOG: SHRIMP ZIRCON U-Pb

| Date | UWA Mount No. | Whose sample? | Operator(s) |
|---|---|---|---|
| 23/9/95 | 95-23 | Chris Adams | McN / Adriemi / Marcus |

| 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 | 5 | 5 | 2 |
| | Delay time (secs): | 7 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 |
| ~~**Phanerozoic**~~ | ~~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 = 8.163  actual 204-bkg = 0.045  expected resolution = >4200

Primary = 2.2 nA  PESABM = 42 pA  actual resolution = 4780

expected Primary : PESABM ≈ 50:1  actual Primary : PESABM = 52

Comments:

95-23B

3 MIN + 100μ RASTER

2 MIN + 100μ RASTER

| 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 | Age ±1σ (Ma) 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Restore all | std 3-2 | 10:19 | 5.84 | 18.2K | 1.8K | 220 | 29.9 | 2.41 | 559±1 | 598±22 | 208 |
| —"— | std 3-3 | 10:41 | 5.88 | 17.8K | 1856 | 220 | 20.7 | 1.63 | 563±1 | 508±21 | 208 |
| —"— | UNK B1-1 | 11:06 | 5.80 | 16.6K ~~[illegible]~~ | 405 | 83 | 22.4 | 6.64 | 351±1 | 720±97 | 208 |
| —"— | std 3-4 | 11:27 | 5.85 | 18.1K | 1843 | 220 | 21.8 | 2.07 ~~1.86~~ | 558±1 | 563±21 ~~630±55~~ | 208 |
| —"— | 4523B,2-1 | 11:52 | 5.83 | 17.2K | 342 | 108.3 | 18.3 | 9.29 | 213±1 | 202±155 | 208 |
| —"— | 4523B.3-1 | 12:15 | 6.03 | 17.2K | 570 | 63.1 | 20.2 | 4.81 | 554±3 | 872±99 | 208 |
| —"— | S1523.3-5 | 12:37 | 5.90 | 18.0 | 1791 | 215 | 21.8 | 1.77 | 543±1 | 586±20 | 208 |
| —"— | 4523B.4-1 | 13:01 | 5.95 | 17.8 | 215 | 52.9 | 18.1 | 16.3 | 228±1 | 25±216 | 208 |
| —"— | 4523B.5-1 | 13:24 | 5.41 | 16.6 | 636 | 117.2 | 4.4 | 7.07 | 497±1 | 464±60 | 208 |
| —"— | 4523B.6-1 | 13:49 | 5.99 | 16.1 | 279 | 17.9 | 15.0 | 7.37 | 981±6 | 941±87 | 208 |
| —"— | S1523B3-6 | 14:12 | 6.07 | 17.6 | 1813 | 204.3 | 20.1 | 1.78 | 539±1 | 528±20 | 208 |

-1° dropped. (POOR DATA)

Mount/sample No: 95-23 Date: 23/9/95 Page No: Page 2 of

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps K | 206 cps | U ppm | $^{204}$Pb ppb | $f_{206}$ % | Age ±1σ (Ma) 206/238 | Age ±1σ (Ma) 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (v. linear) Restore all | u523B-7-1 | 14:34 | 6.21 | 16.2 | 519.6 | 59.4 | 13.8 | 4.60 | 519±2 | 603±55 | 208 |
| —"— | u523B-8-1 | 14:58 | 6.06 | 17.1 | 1287 | 149.6 | 14.4 | 2.10 | 534±1 | 575±30 | 208 |
| —"— | u523B-9-1 | 15:22 | 6.08 | 17.9 | 178.3 | 42 | 13.4 | 10.6 | 234.8±1 | 0±0 | 208 |
| —"— | sl523B-3-7 | 15:43 | 5.98 | 18.2 | 1842 | 210.7 | 17.7 | 1.63 | 540.5±1 | 296±20 | 208 |
| —"— | u523B-10-1 | 16:06 | 6.06 | 16.6 | 529 | 109.1 | 15.6 | 3.93 | 311±1 | 0±0 | 208 |
| —"— | u523B-11-1 | 16:28 | 6.07 | 16.9 | 7778 | 925 | 18.4 | 3.96 | 539.5±1 | 558±8 | 208 |
| Delete 1st u | u523B-12-1 | 16:50 | 5.88 | 17.1 | 1102 | 68.9 | 17.5 | 2.42 | 1068±4 | 1143±31 | 208 |
| Restore all | sl523B4-1 | 17:14 | 5.90 | 17.8 | 1825 | 219.4 | 18.5 | 1.64 | 549.7±1 | 584±20 | 208 |
| —"— | u523B-13-1 | 17:37 | 6.09 | 18.3 | 179 | 34 | 14 | 13.5 | 271±2 | 0±0 | 208 |
| —"— | u523B-14-1 | 18:01 | 5.99 | 18.1 | 547 | 108 | 15.3 | 5.1 | 301±1 | 297±73 | 208 |
| —"— | u523B 15-1 | 18:23 | 5.95 | 15.9 | 198 | 47 | 19 | 12.8 | 278±2 | 0±0 | 208 |
| —"— | u523B16-1 | 18:46 | 6.03 | 17.3 | 753 | 44 | 19 | 3.8 | 1019±4 | 1040±40 | 208 |
| —"— | sl523B4-2 | 19:07 | 5.97 | 16.5 | 1761 | 222 | 20 | 1.8 | 541±1 | 558 | 208 |
| Switched to 3min + 100um high204, 1st scan —"— | u523B-17-1 | 19:38 | 5.84 | 18.7 | 688 | 91 | 14.9 | 3.0 | 485±1 | 647±44 | 208 |
| —"— | u523B-18-1 | 20:07 | 5.97 | 17.4 | 169 | 40 | 23.3 | 19 | 226±1 | 0.0 | 208 |
| —"— | B-19-1 | 20:32 | 6.06 | 17.1 | 168 | 107 | 19 | 1.6 | 952±2 | 994±20 | 208 |
| —"— | B-20-1 | 20:56 | 5.87 | 16.8 | 707 | 217 | 24 | 3.9 | 231±1 | 0.0 | 208 |
| —"— | sl523B-4-3 | 21:22 | 5.88 | 17.5 | 1746 | 219 | 22 | 2.0 | 536±1 | 588±22 | 208 |
| —"— | B-21-1 | 21:54 | 5.81 | 17.8 | 155 | 40 | 18 | 17.9 | 228±1 | 414±239 | 208 |
| —"— | B-22-1 | 22:31 | 5.78 | 19.8 | 721 | 161 | 10.8 | 2.7 | 287±1 | 384±46 | 208 |
| —"— | B-23-1 | 22:54 | 5.87 | 17.0 | 279 | 76 | 26 | 13.8 | 231±1 | 441±145 | 208 |
| 300 KHz —"— | B-24-1 | 23:18 | 6.04 | 17.9 | 574 | 1100 | 44.9 | 11.1 | 322±1 | 382±14 | 208 |
| —"— | sl523B-4-4 | 23:42 | 5.76 | 18.5 | 1825 | 228 | 21 | 1.5 | 550±1 | 564±20 | 208 |
| —"— | B-25-1 | 00:07 | 5.93 | 16.9 | 4183 | 312 | 20 | 0.5 | 901±1 | 982±13 | 208 |
| Delete 1st scan | B-26-1 | 00:37 | 5.82 | 16.9 | 358 | 22 | 20 | 6.9 | 1050±6 | 1084±83 | 208 |

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| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 cps K | 206 cps | U ppm | $^{204}Pb$ ppb | $f_{206}$ % | Age ±1σ (Ma) 206/238 | 207/206 | Corr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Restore all | u523 B.27-1 | 00:56 | 5.97 | 17.5 | 136 | 28 | 20 | 19.8 | 259 ±2 | 0.0 | 208 |
| | B.28-1 | 01:19 | 5.90 | 16.7 | 1594 | 361 | 20.6 | 2.1 | 315 ±1 | 317 ±26 | 208 |
| | SL523B.45 | 01:42 | 5.84 | 18.0 | 1807 | 223 | 30 | 2.4 | 541±1 | 646 ±22 | 208 |
| | B.29-1 | 02:12 | 5.78 | 18.6 | 236 | 49 | 22 | 12.7 | 290 ±1 | 0.0 | 208 |
| | B.30-1 | 02:34 | 5.79 | 17.4 | 781 | 205 | 19 | 3.1 | 275 ±1 | 410 ±54 | 208 |
| | B.31-1 | 02:58 | 5.79 | 17.4 | 355 | 52 | 17.7 | 7.8 | 457±1 | 491 ±92 | 208 |
| | B.32-1 | 03:19 | 5.79 | 17.3 | 214 | 57 | 15 | 11.4 | 246 ±1 | 3.3 ± 160 | 208 |
| | SL523B.46 | 03:43 | 5.81 | 17.6 | 1808 | 225 | 21 | 1.8 | 560 ±1 | 579 ±20 | 208 |
| | B.33-1 | 04:05 | 5.78 | 16.1 | 279 | 75 | 17.5 | 9.7 | 271 ± 1 | 135 ±166 | 208 |
| | B.34-1 | 04:28 | 5.77 | 16.2 | 1400 | 138 | 15.8 | 1.3 | 773 ±2 | 787 ± 24 | 208 |
| | B.35-1 | 04:50 | 5.67 | 16.9 | 248 | 55 | 16.7 | 10.8 | 333 ± 1 | 0.0 | 208 |
| | B.36-1 | 05:11 | 5.79 | 17.6 | 216 | 59 | 21 | 12.7 | 235 ±1 | 0.0 | 208 |
| | SL523B.5-1 | 05:37 | 5.91 | 16.7 | 1732 | 217 | 41 | 3.2 | 549±1 | 637±24 | 208 |
| | B.37-1 | 06:02 | 5.63 | 18.7 | 258 | 68 | 11 | 5.8 | 276±1 | 0.0 | 208 |
| | B.38-1 | 06:25 | 5.84 | 17.7 | 1747 | 110 | 19 | 1.5 | 1046 ±2 | 1102 ±19 | 208 |
| | B.39-1 | 06:48 | 5.57 | 17.8 | 1823 | 281 | 25 | 1.5 | 523 ±1 | 590 ±27 | 208 |
| | B.40-1 | 07:09 | 5.81 | 17.7 | 372 | 109 | 15.6 | 7.3 | 230±1 | 164 ±100 | 208 |