

UWA SHRIMP DATA LOG

Date: 18/11/00 UWA Mount No. A-07 Whose sample? Sam B Operator(s) IF + SB

Indicate any change to the following: 196 204 bkg 206 207 208 ²⁰⁹ 238 248 254 270

Precambrian Count time (secs): 2, 2 10 10 10 ~~20~~ 30/10* 18 2 5 - 2 2
 Phanerozoic* Delay time (secs): 8 8 3 1 - 2 - 1 - 1 - 1 3 - 2 2

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = ³² nanosecs expected resolution = >4200 actual resolution = ⁴⁷⁷⁴

aperture = ³⁰ microns retardation lens = ¹⁰⁰¹⁴ volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: 196-204 = ^{8.169} 204-bkg = ^{0.045} 204-206 = ^{2.000}

206-207 = ^{1.000} 206-208 = ^{1.999}

Primary-epoxy = ^{0.22} nA Primary-~~23~~ ²¹² = ^{0.32} nA PESABM-CZ3 = pA

Raster time (mins): ³ Raster aperture (microns): ⁷⁰ No. of scans: ⁶

Comments: ^{70 ke on 99-09}

^{For data (processed) file see A-07(5)+A-19 joint file}

| Rejection override | Sample/ Std ID | Time - printout | UO/U | 196 ⁴ Kcps | 206 cps | UO ppm Kcps | 204Pb ppb cps | f ₂₀₆ % | Age ±1σ (Ma) 206/238 | 207/206 | Offsets OK? |
|----------------------------------|-------------------|--------------------|-------|--------------------------|------------|-------------------|---------------------|-----------------------|---------------------------|---------|----------------|
| | 24-44-1 | 12:02 | 10.34 | 25 | 30.3 | 61 | 2.1 | .10 | 5.127 5.127 | 2623 | ✓ |
| | 24-44-2 | 12:27 | 10.31 | 27 | 44.6 | 43 | 0.1 | 0 | 5.469 | 2622 | ✓ |
| | 3-155y.a | 13:10 | 9.49 | 19 | 0.7 | 1.6 | 0.3 | .74 | 4.23 | 2514 | - |
| | 3-155y.b | 13:20 | 6.53 | 8 | 0.3 | 0.9 | 0.3 | .34 | 2.06 | 2648 | ✓ |
| | 3-140y.a | 14:04 | 10.54 | 17 | 2.7 | 7 | 0.7 | .31 | 4.88 | 2655 | ✓ |
| | 3-140y.b | 14:22 | 10.26 | 13 | 3.2 | 8 | 0.2 | .12 | 4.38 | 2650 | ✓ |
| | 3-140y.c | 14:41 | 10.62 | 10 | 2.5 | 7 | 0.1 | .08 | 4.04 | 2670 | - |
| | 24-45-1 | 11:06 | 9.47 | 27 | 33 | 67 | 0.1 | 0 | 4.95 | 2629 | - |

UWA SHRIMP DATA LOG

Date: 18/11/00 UWA Mount No. A-07 + A-19 Whose sample? Samie B Operator(s) IF + SB + AP

Indicate any change to the following: ^{202 203} ~~196~~ 204 bkg 206 207 208 ~~232~~ ²³² ~~238~~ ²⁵⁴ ~~248~~ ²⁶⁶ ~~254~~ 270

Precambrian Count time (secs): 3 ~~2~~ ¹⁰ ✓ 10 ✓ 10/20 30/10 ² ~~10~~ ² ~~3~~ ² ~~2~~ 2 2
 Phanerozoic* Delay time (secs): 2 ~~1~~ ³ ✓ 1 ✓ 2 ✓ 1 ✓ 1 3 ² ~~2~~ 2 2 ² ~~2~~ 2

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4774

aperture = 3.0 microns retardation lens = 1014 volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰³ 196-204 = 1.104 204-bkg = 0.045 204-206 = 2.000

206-207 = 1.001 ~~206-208 = 2.000~~ centred

Primary-epoxy = nA Primary ~~CZ3~~ ^{MAD} = 0.32 nA PESABM-CZ3 = pA

Raster time (mins): 3 Raster aperture (microns): 70 No. of scans: 6

Comments: follows A-07 xeno *Original log sheet + printouts are in box A-19*

From 206 onwards, monazite grains gen v. small $\le 10\mu m$

MAD on 99-09

NB: For sample where 203 counts ↓, PESA response was much higher of norm. (upto 20 pA)

| Rejection override | Sample/ Std ID | Time - printout | ^{270/254} UO/UO ₂ | ²⁰³ 196 Kcps | 206 cps | UO ₂ ppm | 204pb ppm | ²⁰⁸ 232 206 % | Age (Ma) | Offsets OK? |
|--------------------|----------------|-----------------|---------------------------------------|-------------------------|---------|---------------------|-----------|--|-----------------|-------------|
| | | | | | | | | | 206/238 207/206 | |
| ✓ | MAD.52-1 | 16:07 | 1.40 | 1.6 | 709 | 4.9 | 0.4 | 0.801 | 0.202 | 0.054 ✓ |
| | 3.143c.a | 16:40 | 1.41 | 1.3 | 1279 | 1.5 | 0.8 | 3.32 | 1.234 | 0.185 ✓ |
| | 3.143c.b | 16:59 | 1.27 | 1.3 | 1309 | 1.6 | 1.1 | 3.01 | 1.007 | 0.193 " |
| Scan 5/6 | 3.145c.a | 17:25 | 1.53 | 1.2 | 1266 | 1.4 | 4.3 | 4.61 | 1.344 | 0.308 ↑ " |
| | 3.145c.b | 17:44 | 1.16 | 0.9 | 862 | 0.9 | 17.3 | 1.63 | 1.165 | 0.451 ↑ " |
| | MAD.52-2 | 18:09 | 1.44 | 1.5 | 700 | 4.9 | 0.6 | 0.835 | 0.206 | 0.061 ✓ |
| | 3.156c.a | 18:45 | 1.34 | 1.1 | 1024 | 1.2 | 5.1 | 3.14 | 1.131 | 0.250 ✓ |
| | 3.156c.b | 19:04 | 1.12 | 0.6 | 819 | 0.8 | 19.0 | 1.93 | 1.128 | 0.479 ↑ ✓ |

but write fail.

Mount/sample No: A07 & A19

Date: 18/11/00

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| Rejection over 10% | Sample/ Std ID | Time - printout | UO/UO 270/34 | ²⁰³ 196 Kcps | ²⁰⁶ cps | UO ₂ ppm 1000 | 204Pb ppb 100 | ^{208/232} 1206 % | Age 110 206/238 254 (Ma) | 207/206 | Offsets OK? |
|----------------------------------|-------------------|--------------------|----------------------------|--|-----------------------|---|--------------------------------|--|---|---------|----------------|
| | 3.157c.a | 19:32 | 1.42 | 1.4 | 1099 | 1.2 | 1.6 | 4.0 | 1.265 | 0.198 | ✓ |
| | 3.157c.b | 19:50 | 1.41 | 0.8 | 802 | 0.9 | 1.3 | 4.4 | 1.286 | 0.199 | ✓ |
| | 3.160c.a | 20:23 | 1.22 | 1.2 | 588 | 0.7 | 2.4 | 2.4 | 1.057 | 0.224 | ✓ |
| | 3.160c.b | 20:43 | 0.82 | 1.1 | 425 | 0.5 | 3.4 | 1.8 | 0.704 | 0.275 | ✓ |
| ↑ in new mount A-19 | MAD.S2-3 | 21:10 | 1.43 | 1.4 | 723 | 4.9 | 0.4 | 0.844 | 0.210 | 0.060 | ✓ |
| ↑ arc fallout | MAD.S2-4 | 21:45 | 1.42 | 1.4 | 672 | 4.7 | 0.5 | 0.791 | 0.204 | 0.059 | ✓ |
| ↑ = 2.7nA | MAD.S2-5 | 23:04 | 1.47 | 1.1 | 564 | 4.0 | 0.5 | 0.805 | 0.209 | 0.059 | ✓ |
| | 1.206c.a | 23:20 | 1.47 | 1.2 | 4005 | 4.5 | 1.9 | 4.6 | 1.319 | 0.190 | ✓ |
| | 1.206c.b | 23:51 | 1.34 | 1.1 | 3383 | 3.8 | 5.5 | 2.92 | 1.182 | 0.200 | ✓ |
| ↑ very curved | 1.206c.a | 24:18 | 0.86 | 0.3 | 1282 | 1.2 | 5.4 | 1.33 | 0.906 | 0.227 | ✓ |
| ↑ of arc failures/jrn | MAD.S2-6 | 24:43 | 1.41 | 1.2 | 555 | 3.9 | 0.4 | 0.807 | 0.202 | 0.060 | ✓ |
| ↑ curved | 1.207c.a | 01:16 | 1.75 | 1.2 | 1917 | 2.1 | 1.6 | 3.94 | 1.427 | 0.194 | ✓ |
| | 1.182c.a | 01:42 | 1.41 | 0.9 | 2791 | 3.1 | 14.6 | 3.99 | 1.268 | 0.246 | ✓ |
| | 1.181c.a | 02:08 | 1.25 | 0.8 | 1355 | 1.5 | 4.4 | 1.93 | 1.178 | 0.234 | ✓ |
| | 1.203c.a | 02:36 | 1.09 | 0.6 | 1312 | 1.3 | 10.1 | 1.71 | 1.079 | 0.283 | ✓ |
| | 1.203c.A.a | 03:04 | 1.00 | 0.3 | 670 | 0.4 | 7.9 | 1.71 | 1.550 | 0.450 | ✓ |
| | MAD.S2-7 | 03:28 | 1.40 | 1.1 | 553 | 3.9 | 0.5 | 0.801 | 0.199 | 0.061 | ✓ |

↑ NB dupl
↑ higher
↑ @ 410 K.