

### UWA SHRIMP DATA LOG

Date: 14.01.03      UWA Mount No. C43      Whose sample? Noreen      Operator(s) IF & AP

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

**Precambrian**    Count time (secs):    2    10    10    10/20\* 30/10\* 10.5    5    5    2

**Phanerozoic\***    Delay time (secs):    8    3    1    2    1    1    3    2    2

Steel: Wein volts / nA =  $-35/6.5$  for O<sup>-</sup>; =  $-43/1.8$  for O<sub>2</sub><sup>-</sup>; =  $-64/3.4$  for NO<sup>-</sup>

dead-time = ..... nanosecs      expected resolution = >4200      actual resolution = 4720

aperture = ~~100~~<sup>70</sup> ..... microns      retardation lens = ..... 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 = 8.172      204-bkg = 0.045      204-206 = 2.000

206-207 = 1.000      206-208 = 2.000

Primary-epoxy = 1.8 ..... nA      Primary-CZ3 = 2.6 ..... nA      PESABM-CZ3 = 45 ..... pA

Raster time (mins): 1.5 .....      Raster aperture (microns): 40~~µ~~ .....      No. of scans: 6

Comments: C: most recent growth. (2650-2660) ~ 12-20 unks.  
 NB = 7a = analysed previously!  
 B: " ± cores. if poss 1/2 doz on D =  
 NB Most grains of B are metamict.

<sup>10</sup> extremely stable

| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 Kcps | 206 cps | U ppm | 204Pb ppb | f <sub>206</sub> % | Age ±1σ (Ma) 206/238 | 207/206 | Offsets OK? |
|---------------------|----------------|-----------------|------|----------|---------|-------|-----------|--------------------|----------------------|---------|-------------|
|---------------------|----------------|-----------------|------|----------|---------|-------|-----------|--------------------|----------------------|---------|-------------|

|               |                                   |       |      |     |      |     |     |     |           |           |        |
|---------------|-----------------------------------|-------|------|-----|------|-----|-----|-----|-----------|-----------|--------|
| Raster 1min   |                                   |       |      |     |      |     |     |     |           |           | 8.167  |
|               | C23.1-1                           | 12:25 |      |     |      | 551 | 1.8 | .07 | 572 ± 10  | 504 ± 39  | ✓      |
|               | C23.1-2                           | 12:46 | 5.52 | 2.3 | 1606 | 567 | -ve | -ve | 597 ± 4   | 534 ± 20  | ✓      |
| Raster 2min   | C.7-1                             | 13:09 | 5.48 | 2.7 | 5107 | 303 | -ve | -   | 2600 ± 22 | 2651 ± 6  | ✓ o.k. |
|               | 10 Errors, HV OFF, Trim Man moved |       |      |     |      |     |     |     |           |           |        |
| Raster 1.5min | C23.1-3                           | 14:03 | 4.89 | 19  | 1044 | 584 | 1.4 | .05 | 531 ± 9   | 570 ± 32  | ✓      |
|               | C.8-1                             | 14:22 | 4.96 | 21  | 3638 | 327 | 1.7 | .02 | 2549 ± 18 | 2663 ± 6  | ✓ o.k. |
|               | C23.1-4                           | 14:39 | 5.02 | 22  | 1297 | 580 | 1.9 | .07 | 565 ± 6   | 598 ± 36  | ✓      |
|               | C.9-1                             | 15:00 | 5.36 | 22  | 1015 | .74 | -ve | -ve | 2678 ± 32 | 2653 ± 12 | ✓ o.k. |

C

Mount/sample No: C43

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| Rejection<br>over-ride | Sample/<br>Std ID | Time -<br>printout | UO/U | 196<br>Kcps | 206<br>cps | U<br>ppm | 204Pb<br>ppb | f206<br>% | Age $\pm 1\sigma$ (Ma) |               | Offsets<br>OK? |
|------------------------|-------------------|--------------------|------|-------------|------------|----------|--------------|-----------|------------------------|---------------|----------------|
|                        |                   |                    |      |             |            |          |              |           | 206/238                | 207/206       |                |
|                        | C.10-1            | 15:17              | 5.18 | 24          | 1428       | 105      | 2.7          | .09       | 2656 $\pm$ 32          | 2665 $\pm$ 11 | ✓ ok           |
|                        | C.11-1            | 15:38              | 5.36 | 23          | 1816       | 129      | 1.0          | .03       | 2626 $\pm$ 24          | 2669 $\pm$ 10 | ✓ ok           |
|                        | <del>C.12-1</del> | 15:55              | 5.19 | 22.9        | 923        | 68       | 4.3          | .23       | 2662 $\pm$ 38          | 2655 $\pm$ 18 | ✓ ok           |
|                        | C2.1-5            | 16:13              | 5.52 | 23          | 1537       | 570      | 2.7          | .10       | 575 $\pm$ 12           | 556 $\pm$ 36  | ✓              |
|                        | C.13-1            | 16:31              | 5.45 | 24          | 4943       | 317      | 5.2          | .06       | 2678 $\pm$ 42          | 2668 $\pm$ 5  | ✓ ok           |
|                        | C.14-1            | 16:49              | 5.35 | 24          | 1238       | 83       | 3.1          | .14       | 2692 $\pm$ 28          | 2644 $\pm$ 12 | ✓ ok           |
|                        | C.15-1            | 17:08              | 5.53 | 24          | 1243       | 79       | 2.0          | .09       | 2675 $\pm$ 33          | 2656 $\pm$ 12 | ✓ ok           |
|                        | C.16-1            | 17:26              | 5.30 | 24          | 1588       | 108      | 2.4          | .08       | 2702 $\pm$ 30          | 2647 $\pm$ 13 | ✓ ok           |
|                        | C2.2-1            | 17:43              | 5.33 | 24          | 1597       | 563      | 1.1          | .04       | 609 $\pm$ 4            | 463 $\pm$ 27  | ✓              |
|                        | C.17-1            | 18:03              | 5.67 | 23          | 1649       | 161      | 88.5         | 2.96      | 1868 $\pm$ 22          | 2585 $\pm$ 27 | ✓ disc. X      |
|                        | C.18-1            | 18:20              | 5.01 | 23          | 821        | 64       | 1.8          | .10       | 2657 $\pm$ 80          | 2644 $\pm$ 16 | ✓ ok           |
|                        | C.19-1            | 18:39              | 5.97 | 23          | 2130       | 124      | 3.3          | .10       | 2705 $\pm$ 24          | 2641 $\pm$ 10 | ✓ ok           |
|                        | C.20-1            | 18:58              | 5.41 | 21          | 1721       | 120      | 5.8          | .17       | 2814 $\pm$ 28          | 2642 $\pm$ 14 | ✓ ?            |
|                        | C.21-1            | 19:15              | 5.39 | 24          | 1023       | 66       | 0.5          | .03       | 2768 $\pm$ 141         | 2661 $\pm$ 17 | ✓ ok           |
|                        | <del>C2.2-2</del> | 19:33              | 5.34 | 24          | 1534       | 558      | 2.2          | .08       | 579 $\pm$ 10           | 542 $\pm$ 34  | ✓              |
|                        | C.22-1            | 19:53              | 5.47 | 23<br>248   | 2933       | 296      | 3.4          | .06       | 1889 $\pm$ 14          | 1806 $\pm$ 11 | ✓ Young!       |
|                        | C.23-1            | 20:11              | 5.31 | 22          | 7194       | 500      | 2.1          | .02       | 2785 $\pm$ 25          | 2650 $\pm$ 4  | ✓ o.k.         |
|                        | C.24-1            | 20:29              | 5.50 | 24          | 1956       | 124      | 0.6          | .02       | 2743 $\pm$ 23          | 2658 $\pm$ 9  | ✓ o.k.         |
|                        | C.25-1            | 20:47              | 5.21 | 23          | 1573       | 115      | -ve          | -ve       | 2694 $\pm$ 79          | 2653 $\pm$ 9  | ✓ o.k.         |
|                        | C.26-1            | 21:05              | 5.45 | 24          | 1513       | 74       | 2.9          | .14       | 2692 $\pm$ 36          | 2654 $\pm$ 14 | ✓ ok.          |
|                        | C2.2-3            | 21:24              | 5.27 | 23          | 1523       | 570      | -ve          | -ve       | 597 $\pm$ 13           | 593 $\pm$ 33  | ✓              |
|                        | C.27-1            | 21:42              | 5.92 | 24          | 8107       | 553      | 20.4         | .16       | 2323 $\pm$ 76          | 2484 $\pm$ 10 | ✓ Young        |
|                        | C.28-1            | 22:00              | 5.02 | 23          | 2545       | 185      | 3.8          | .07       | 2738 $\pm$ 50          | 2653 $\pm$ 10 | ✓ o.k.         |
|                        | C.29-1            | 22:18              | 5.25 | 24          | 2592       | 199      | 26.5         | .54       | 2418 $\pm$ 43          | 2641 $\pm$ 31 | ✓ disc.        |
|                        | C.30-1            | 22:36              | 5.39 | 24          | 2397       | 152      | 1.9          | .04       | 2735 $\pm$ 47          | 2657 $\pm$ 8  | ✓ o.k.         |

C

1st scan 204 = 3 cps!  
Threshold > 70 cps.

disc.

X

ok

?

ok

Young!

o.k.

o.k.

o.k.

ok.

Young

o.k.

disc.

o.k.



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    Offsets OK?

C

1<sup>o</sup> ok.

| 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             | Offsets OK? |
|---------------------|--------------------|------------------|-----------------|---------------|-----------------|----------------|----------------|----------------|----------------------|---------------------|-------------|
|                     | C.31-1             | 22:55            | 5.66            | 24            | 3173            | 198            | 6.0            | .11            | 2690 ± 22            | 2652 ± 9            | ✓ o.k.      |
|                     | C.32-1             | 23:13            | 3.65            | 13            | 607             | 159            | 3.2            | .09            | 2256 ± 123           | 2529 ± 76           | ✓ disc      |
|                     | <del>C.2-4</del>   | <del>23:31</del> | <del>5.34</del> | <del>24</del> | <del>1564</del> | <del>560</del> | <del>-ve</del> | <del>-ve</del> | <del>587 ± 3</del>   | <del>512 ± 25</del> | ✓           |
|                     | C.33-1             | 23:49            | 5.09            | 23            | 2856            | 206            | 5.8            | .10            | 2755 ± 22            | 2664 ± 8            | ✓ o.k.      |
|                     | C.34-1             | 24:06            | 5.19            | 26            | 2853            | 263            | 28.3           | .55            | 1997 ± 37            | 2622 ± 10           | ✓ disc      |
|                     | C.35-1             | 24:24            | 5.65            | 22            | 1960            | 134            | 0.6            | .02            | 2604 ± 24            | 2689 ± 10           | ✓ older     |
|                     | C.36-1             | 24:42            | 5.19            | 20            | 6198            | 478            | 8.7            | .06            | 2850 ± 100           | 2683 ± 74           | ✓ "         |
|                     | C.37-1             | 24:59            | 4.11            | 16            | 932             | 160            | -ve            | -ve            | 2328 ± 55            | 2658 ± 12           | ✓ disc      |
|                     | <del>C.2-3-1</del> | <del>01:17</del> | <del>5.39</del> | <del>24</del> | <del>1648</del> | <del>560</del> | <del>-</del>   | <del>-</del>   | <del>607 ± 14</del>  | <del>559 ± 25</del> | ✓           |
|                     | C.38-1             | 01:36            | 5.53            | 23            | 406             | 27             | 2.6            | .34            | 2734 ± 56            | 2624 ± 30           | ✓ younger   |
|                     | C.39-1             | 01:53            | 5.60            | 22            | 2869            | 204            | 5.5            | .10            | 2669 ± 23            | 2641 ± 9            | ✓ younger   |
|                     | C.40-1             | 02:14            | 5.05            | 26            | 2233            | 159            | 10.7           | .26            | 2550 ± 83            | 2673 ± 10           | ✓ ok?       |
|                     | C.41-1             | 02:32            | 4.95            | 23            | 3409            | 303            | 3.1            | .04            | 2402 ± 42            | 2602 ± 24           | ✓ disc      |
|                     | C.42-1             | 02:51            | 5.30            | 23            | 3079            | 209            | -ve            | -ve            | 2764 ± 20            | 2649 ± 9            | ✓ ok?       |
|                     | C.43-1             | 03:09            | 5.37            | 23            | 1976            | 136            | -ve            | -ve            | 2712 ± 27            | 2650 ± 12           | ✓ ok.       |
|                     | <del>C.2-3-2</del> | <del>03:29</del> | <del>5.40</del> | <del>24</del> | <del>1611</del> | <del>570</del> | <del>-</del>   | <del>-</del>   | <del>598 ± 14</del>  | <del>583 ± 18</del> | ✓           |
|                     | C.44-1             | 03:46            | 5.42            | 24            | 2235            | 137            | 1.3            | .03            | 2790 ± 60            | 2653 ± 10           | ✓ ok        |
|                     | B.1-1              | 04:06            | 5.54            | 24            | 2936            | 175            | 5.3            | .11            | 2746 ± 24            | 2647 ± 9            | ✓ o.k.      |
|                     | B.2-1              | 04:24            | 5.37            | 25            | 5386            | 357            | 16.2           | -.17           | 2608 ± 58            | 2641 ± 6            | ✓ o.k.      |
|                     | B.3-1              | 05:07            | 5.89            | 23            | 10.5K           | 710            | 16.7           | -.37           | 2476 ± 87            | 2439 ± 17           | ✓ young     |
|                     | B.4-1              | 05:24            | 5.91            | 19            | 14.5K           | 1242           | 72.6           | -.25           | 2348 ± 97            | 2232 ± 44           | ✓ Young.    |
|                     | <del>C.2-3-3</del> | <del>05:42</del> | <del>5.35</del> | <del>25</del> | <del>1576</del> | <del>557</del> | <del>0.0</del> | <del>.00</del> | <del>586 ± 12</del>  | <del>580 ± 18</del> | ✓           |
|                     | B.4-2              | 05:59            | 5.54            | 22            | 7493            | 523            | 10.5           | .08            | 2616 ± 12            | 2620 ± 5            | ✓ o.k.      |
|                     | B.5-1              | 06:23            | 5.54            | 23            | 6229            | 416            | 4.2            | .04            | 2662 ± 19            | 2659 ± 6            | ✓ ok        |
|                     | B.6-1              | 06:40            | 5.97            | 23            | 12.1K           | 729            | 89.6           | -.20           | 2699 ± 10            | 2521 ± 4            | ✓ disc      |

B

early Pb loss. with U gain



