

93803838

93813054 - manual PPP

UWA SHRIMP DATA LOG

Date: 10/11/99 UWA Mount No.: 99-58 Whose sample?: Stu. B Operator(s): SB.

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

Steel: Wein volts / nA = 82/14 for O⁻; = 54/3.2 for O₂⁻; = 62[?]/6.3 for NO⁻

dead-time = 32 nanosecs expected resolution = >4200 actual resolution = 4678

aperture = 100 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 = 1.000

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.8 nA Primary-CZ3 = 3.8 nA PESABM-CZ3 = 34 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: Sensitivity 9-3 cps/ppm/nA

Population B = E225

Standards
 n = 12
 error = 2.48 %
 on slope = 2.0
 actual slope = 2.53

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?

| 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? |
|---------------------|----------------|-----------------|------|----------|---------|-------|-----------|--------|--------------|-----------|---------|-------------|
| SI.5-2 | SI.5-2 | | | | | | | | | | | |
| SI.5-3 | SI.5-3 | 13:42 | 6.76 | 12.1 | 1554 | 220 | -0.2 | .01 | 594 ± 1 | 613 ± 20 | | |
| | B.1-1 | 14:08 | 6.24 | 13.1 | 2103 | 67 | -0.7 | - | 2647 ± 11 | 2776 ± 8 | | |
| | SI.3-1 | 14:27 | 6.51 | 12.6 | 1506 | 234 | 1.6 | - | 585 ± 1 | 501 ± 20 | | |
| | B.2-1 | 15:01 | 6.37 | 13.0 | 2765 | 81 | 1.1 | -0.4 | 2698 ± 10 | 2696 ± 8 | | |
| | B.3-1 | 15:24 | 6.43 | 12.9 | 1626 | 46 | 2.1 | .11 | 2728 ± 14 | 2693 ± 11 | | |
| | B.4-1 | 15:56 | 6.63 | 12.7 | 1505 | 39 | 3.7 | -2.4 | 2722 ± 14 | 2683 ± 11 | | |
| | SI.3-2 | 16:14 | 6.29 | 12.5 | 1317 | 242 | 1.2 | -0.9 | 552 ± 1 | 523 ± 20 | | |

Mount/sample No: 99-58

Date: 11/10/99

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| Rejection over-ride | Sample/ Std ID | Time - printout | UO/U | 196 Kcps | 206 cps | U ppm | 204Pb ppb | f206 % | Age $\pm 1\sigma$ (Ma) 206/238 | 207/206 | Offsets OK? |
|------------------------|-------------------|--------------------|------|-------------|------------|----------|----------------|-----------|-----------------------------------|---------------|----------------|
| | B.5-1 | 16:32 | 6.96 | 12.1 | 1723 | 40 | -0.1 | - | 2828 ± 14 | 2689 ± 9 | |
| | B.6-1 | 16:51 | 6.58 | 12.8 | 3045 | 80 | 0.5 | .02 | 2754 ± 10 | 2686 ± 7 | |
| | B.7-1 | 17:09 | 6.52 | 12.5 | 2185 | 64 | -0.6 | -.03 | 2648 ± 11 | 2702 ± 8 | |
| | B.8-1 | 17:27 | 6.23 | 12.6 | 1607 | 53 | 1.9 | .10 | 2652 ± 13 | 2687 ± 10 | |
| | SI.6-1 | 17:51 | 6.33 | 13.0 | 1495 | 254 | 1.7 | 0.13 | 565 ± 1 | 653 ± 18 | |
| | B.9-1 | 18:10 | 6.63 | 12.5 | 1979 | 54 | -0.4 | - | 2686 ± 12 | 2701 ± 8 | |
| | B.10-1 | 18:28 | 6.65 | 12.6 | 1801 | 46 | 1.1 | - | 2795 ± 13 | 2701 ± 8 | |
| | B.11-1 | 18:45 | 6.37 | 13.3 | 2674 | 76 | 1.6 | -0.6 | 2711 ± 10 | 2698 ± 8 | |
| | B.12-1 | 19:04 | 6.51 | 13.2 | 1820 | 50 | 0.3 | .01 | 2693 ± 13 | 2693 ± 10 | |
| | B.13-1 | 19:21 | 6.49 | 13.4 | 1843 | 50 | 1.1 | -0.6 | 2701 ± 12 | 2697 ± 10 | ✓ |
| | SI.6-2 | 19:40 | 6.37 | 12.9 | 1536 | 246 | -0.1 | - | 588 ± 1 | 570 ± 19 | |
| | B.14-1 | 19:58 | 6.51 | 12.8 | 1178 | 32 | 1.5 | -1.2 | 2742 ± 16 | 2687 ± 13 | |
| | B.15-1 | 20:16 | 6.37 | 12.7 | 2044 | 63 | -0.9 | - | 2660 ± 11 | 2690 ± 8 | |
| | B.16-1 | 20:37 | 6.36 | 12.8 | 1879 | 55 | 0.7 | -0.3 | 2756 ± 12 | 2687 ± 9 | |
| | B.17-1 | 20:55 | 6.29 | 12.9 | 1325 | 42 | -1.0 | - | 2629 ± 14 | 2686 ± 9 | |
| | B.18-1 | 21:13 | 6.47 | 13.0 | 2675 | 73 | 1.4 | -0.5 | 2736 ± 11 | 2701 ± 8 | |
| | SI.6-3 | 21:33 | 6.64 | 12.6 | 1540 | 227 | 0.8 | -0.7 | 579 ± 1 | 510 ± 60 | |
| | B.19-1 | 21:52 | 6.21 | 12.5 | 1888 | 64 | 0.7 | -0.3 | 2633 ± 12 | 2704 ± 9 | |
| | B.20-1 | 22:12 | 6.23 | 12.4 | 1482 | 46 | 0.3 | -0.2 | 2822 ± 15 | 2699 ± 11 | |
| | B.21-1 | 22:32 | 6.25 | 12.1 | 332 | 10 | 1.7 | .40 | 2899 ± 32 | 2676 ± 29 | |
| | B.22-1 | 22:51 | 6.35 | 13.0 | 1514 | 44 | 3.4 | -2.0 | 2757 ± 14 | 2698 ± 11 | |
| | SI.6-4 | 23:12 | 6.25 | 13.4 | 1291 | 233 | -0.1 | .02 | 536 ± 1 | 599 ± 21 | |
| | D.15-1 | 23:31 | 6.52 | 12.7 | 1219 | 35 | -2.2 | - | 2687 ± 15 | 2678 ± 10 | |
| | D.16-1 | 23:51 | 6.52 | 13.0 | 945 | 26 | 0.1 | .01 | 2675 ± 17 | 2681 ± 12 | |
| | D.17-1 | 0:19 | 6.09 | 12.8 | 2074 | 81 | 1.5 | -0.6 | 2428 ± 10 | 2589 ± 9 | |

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?

| 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? |
|---------------------|---------------|-----------------|------|----------|---------|-------|-----------|--------|----------------------|-----------|-------------|
| | D.18-1 | 0:37 | 6.63 | 13.2 | 651 | 19 | 1.3 | .21 | 2447 ± 19 | 2671 ± 18 | |
| | SI.13-1 | 0:59 | 6.51 | 12.9 | 1561 | 236 | -0.6 | - | 582 ± 1 | 545 ± 18 | |
| | D.19-1 | 1:18 | 6.74 | 13.3 | 787 | 19 | 0.0 | - | 2690 ± 20 | 2660 ± 13 | |
| | D.26-1 | 1:37 | 6.46 | 12.8 | 1186 | 36 | 1.1 | -0.8 | 2602 ± 14 | 2673 ± 13 | |
| | D.21-1 | 1:55 | 6.41 | 12.8 | 800 | 23 | 1.0 | .11 | 2715 ± 19 | 2639 ± 15 | Xenocryst? |
| | D.22-1 | 2:38 | 6.90 | 12.2 | 930 | 23 | 0.4 | -0.4 | 2676 ± 18 | 2700 ± 12 | ← |
| | D.23-1 | 2:57 | 6.48 | 12.6 | 520 | 16 | 0.7 | .12 | 2624 ± 23 | 2679 ± 26 | |
| | SI.13-2 | 3:15 | 6.42 | 13.0 | 1521 | 242 | -1.2 | -0.1 | 576 ± 1 | 596 ± 20 | ✓ |
| | A.1-1 | 3:36 | 6.83 | 13.8 | 1375 | 32 | 60.2 | 5.1 | 2475 ± 15 | 2726 ± 27 | |
| | A.2-1 | 4:05 | 5.90 | 13.6 | 588 | 23 | -2.6 | - | 2507 ± 19 | 2741 ± 15 | |
| | A.3-1 | 4:23 | 6.49 | 12.7 | 1198 | 33 | 2.5 | .19 | 2754 ± 16 | 2668 ± 13 | |
| | A.4-1 | 4:42 | 6.52 | 12.5 | 1099 | 30 | 0.9 | -0.7 | 2756 ± 17 | 2693 ± 14 | |
| | A.5-1 | 4:59 | 6.29 | 12.5 | 1586 | 50 | -0.2 | - | 2764 ± 14 | 2758 ± 9 | |
| | SI.12-1 | 5:20 | 6.50 | 12.2 | 1461 | 242 | 0.2 | -0.2 | 571 ± 1 | 519 ± 20 | |
| 238/1 | A.6-1 | 5:38 | 6.36 | 12.7 | 668 | 21 | -1.5 | - | 2654 ± 20 | 2670 ± 14 | |
| | A.7-1 | 5:57 | 6.42 | 12.8 | 799 | 23 | 0.7 | -0.8 | 2718 ± 19 | 2674 ± 15 | |
| | A.8-1 | 6:14 | 6.15 | 13.4 | 1369 | 44 | 9.8 | .60 | 2637 ± 14 | 2647 ± 74 | |
| | A.9-1 | 6:32 | 6.60 | 12.5 | 1150 | 31 | 1.7 | -1.4 | 2689 ± 16 | 2747 ± 12 | |
| | A.10-1 | 6:52 | 6.31 | 12.9 | 1636 | 49 | 0.3 | -0.2 | 2719 ± 13 | 2667 ± 10 | |
| | SI.12-2 | 7:13 | 6.27 | 13.0 | 1434 | 250 | -1.1 | -0.1 | 568 ± 1 | 534 ± 19 | |
| | A.11-1 | 7:32 | 6.44 | 12.7 | 1733 | 50 | 5.7 | -3.0 | 2726 ± 13 | 2665 ± 11 | |
| | A.12-1 | 7:49 | 6.70 | 12.4 | 1100 | 30 | 1.7 | -1.5 | 2655 ± 16 | 2700 ± 13 | |
| | A.13-1 | 8:08 | 6.46 | 12.3 | 521 | 14 | -1.5 | - | 3012 ± 30 | 3016 ± 14 | |