

**UWA SHRIMP DATA LOG**

Date: 13/2/00 UWA Mount No.: 99-70 Whose sample?: ~~Ass?~~ Krupcz? Operator(s): MacN + AR

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

Steel: Wein volts / nA = 56v/15.0 for O<sup>-</sup>; = 34v/25 for O<sub>2</sub><sup>-</sup>; = 24v/5.1 for NO<sup>-</sup>

dead-time = 3.2 nanosecs expected resolution = >4200 actual resolution = 4980

aperture = 2 microns retardation lens = 0 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 = 8.170 204-bkg = 0.045 204-206 = ~1.997

206-207 = 1.000 206-208 = 2.000

Primary-epoxy = 2.4 nA Primary-CZ3 = 3.2 nA PESABM-CZ3 = 53 pA

Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 8

Comments: Following on from 98-61. NB: exc unk. B2-1, 3-1 & 7-1 rec charging

Looks like the mount is changing  
do not use n=3 (exc sl 7-1, 7-2, 61 & 6-2 rec charging)  
 $\delta$  (slope 2) = 0.69%  
 $\langle \delta$  (Actual slope 2-33) = 0.37%

| 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?                         |
|---------------------|----------------|-----------------|-------------|-------------|-------------|-------------|------------|--------------------|----------------------|-------------|-------------------------------------|
|                     | <u>C211-1</u>  | <u>1:11</u>     | <u>6.65</u> | <u>19.8</u> | <u>2180</u> | <u>220</u>  | <u>0.2</u> | <u>-0.2</u>        | <u>572</u>           | <u>660</u>  | <input checked="" type="checkbox"/> |
| <u>weird!</u>       | <u>C27-1</u>   | <u>1:28</u>     | <u>5.54</u> | <u>19.1</u> | <u>1590</u> | <u>315</u>  | <u>-</u>   | <u>-</u>           | <u>551</u>           | <u>558</u>  | <input checked="" type="checkbox"/> |
|                     | <u>B.1-1</u>   | <u>1:51</u>     | <u>6.66</u> | <u>21.5</u> | <u>2543</u> | <u>43</u>   | <u>1.1</u> | <u>.07</u>         | <u>2655</u>          | <u>5578</u> | <input checked="" type="checkbox"/> |
| <u>weird again!</u> | <u>C27-2</u>   | <u>2:09</u>     | <u>5.54</u> | <u>17.8</u> | <u>1399</u> | <u>319</u>  | <u>0.8</u> | <u>-0.05</u>       | <u>514</u>           | <u>649</u>  | <input checked="" type="checkbox"/> |
|                     | <u>B.2-1</u>   | <u>2:29</u>     | <u>3.63</u> | <u>10.5</u> | <u>178</u>  | <u>197</u>  | <u>-</u>   | <u>-</u>           | <u>2599</u>          | <u>2721</u> | <input checked="" type="checkbox"/> |
| <u>(A)</u>          | <u>B.3-1</u>   | <u>2:48</u>     | <u>3.41</u> | <u>8.2</u>  | <u>266</u>  | <u>8.5K</u> | <u>925</u> | <u>.26</u>         | <u>2937</u>          | <u>2590</u> | <input checked="" type="checkbox"/> |
|                     | <u>B.4-1</u>   | <u>3:16</u>     | <u>6.75</u> | <u>19.0</u> | <u>863</u>  | <u>152</u>  | <u>0.7</u> | <u>.11</u>         | <u>2723</u>          | <u>2811</u> | <input checked="" type="checkbox"/> |
|                     | <u>C26-1</u>   | <u>3:35</u>     | <u>4.43</u> | <u>13.8</u> | <u>681</u>  | <u>607</u>  | <u>4.4</u> | <u>-0.17</u>       | <u>461</u>           | <u>568</u>  | <input checked="" type="checkbox"/> |

(A) More crap data - gone into old standard between spots to see what comes up. [sl-970-test], Count times normal.

↓ = charging

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

|                                      |        |                 |      |      |      |     |     |     |      |      |   |
|--------------------------------------|--------|-----------------|------|------|------|-----|-----|-----|------|------|---|
|                                      | BS-1   | 3:53            | 6.88 | 19.8 | 3940 | 62  | 2.1 | .08 | 2765 | 2699 | ✓ |
|                                      | B.6-1  | 4:13            | 6.86 | 19.0 | 1694 | 29  | 1.6 | .15 | 2692 | 2628 | ✓ |
| re-standardizing                     | 51.6-2 | 4:32            | 3.76 | 9.3  | 478  | 220 | 4.1 | .35 | 570  | 511  | ✓ |
| Ⓟ                                    | 98-61  |                 |      |      |      |     |     |     |      |      |   |
| Note counts are normal for this std. | 51.6-5 | 5:15            | 6.85 | 19.4 | 2377 | 244 | 0.1 | .05 | 601  | 559  | ✓ |
| re-standardized                      | 98-61  |                 |      |      |      |     |     |     |      |      |   |
|                                      | 51.6-6 | 5:12            | 6.83 | 19.5 | 2380 | 220 | 0.3 | .03 | 572  | 557  | ✓ |
|                                      | 98-70  | 5:31            | 4.85 | 14.5 | 949  | 89  | 3.0 | .10 | 2282 | 2732 | ✓ |
|                                      | B.7-1  | <del>4:55</del> | 4.85 | 14.5 | 949  | 89  | 3.0 | .10 | 2282 | 2732 | ✓ |
|                                      | 98-70  |                 |      |      |      |     |     |     |      |      |   |
|                                      | B.8-1  | 5:52            | 6.65 | 20.3 | 2274 | 39  | -1V | -   | 2675 | 2618 | ✓ |

→ Don't know how to explain these erratic results - especially as the stds on this mount are unusual. I'm not sure whether or not to even believe the "good" analysis so I'm ending it for the evening 5:15am ←.

Ⓟ. Still getting low counts → went back to 98-61 (std)