**Table S2.** Measurement information for the trunk of the specimens of *Parioscorpio venator* on which the rediagnosis and redescription were primarily based. Body length and width are included from Table S1 for reference.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Specimen Number (UWGM) | 2793 | 2764 | 2785 | 2854 a + b | 2857 a + b | 2885 a + b |
| Maximum Body Length | 19.77 | 28.03 | 17.48\* | 20.77\* | 18.2 | 16.43 |
| Maximum Body Width | 9.04 | 9.77 | 11.27 | 11.34 | 6.66 | 5.41 |
| Trunk Segment 2 Length | 0.87 | 1.16 | 1.24 | 1.27 | 0.74 | 0.64 |
| Trunk Segment 2 Widtha  | 5.60\* | 6.66 | 7.17 | 5.50 | 4.74 | NA |
| T2, Racemose Bundle Width (l/r) | 0.23 / NA | NA / NA | 0.43 / NA | 0.53 / NA | 0.25 / 0.22 | NA / NA |
| T2, Nerve Cord Width (l/r) | 0.18 / 0.17 | NA / NA | 0.29 / 0.39 | 0.22 / NA | 0.13 / 0.14 | NA / NA |
| Trunk Segment 7 Length | 1.45 | 2.55 | 2.15 | 1.61 | 1.07 | 1.20 |
| Trunk Segment 7 Widtha | 7.25 | 10.08 | 7.94 | 9.21 | 5.21 | 5.24 |
| T7, Racemose Bundle Width (l/r) | 0.35 / 0.40 | NA / NA | NA / NA | 0.35 / 0.36 | 0.38 / 0.49 | 0.20 / NA |
| T7, Nerve Cord Width (l/r) | 0.22 / 0.10 | NA / NA | NA / NA | 0.29 / 0.28 | 0.23 / 0.21 | 0.29 / 0.29 |
| Trunk Segment 11 Length | 1.11 | 1.67 | NA | 1.5 | 0.98 | 0.91 |
| Trunk Segment 11 Widtha | 4.8 | 5.34 | NA | 4.41\* | 2.68\* | 2.78 |
| T11, Racemose Bundle Width (l/r) | 0.17 / 0.27 | NA / NA | NA / NA | 0.34 / 0.24 | 0.33 / 0.27 | NA / NA |
| T11, Nerve Cord Width (l/r) | 0.12 / 0.17 | NA / NA | NA / NA | NA / NA | 0.16 / 0.16 | NA / NA |

Note that these measurements are based only on the axial portion of the body, since the pleural portions and anterior margin of the head shield are poorly preserved or absent on the available specimens. UWGM2798 is not included in this table since no measurable parts of its trunk are preserved. All dimensions are in millimeters.

*a* Trunk segment widths do not include the racemose bundles, which frequently extended beyond the margins of the axial body.

Abbreviations: T#– trunk segment number #; l/r– left and right-side measurements, respectively; NA– morphology not preserved, therefore no measurement possible; \*– measure is clearly incomplete.