**Subfamilies comparison:** Differences and similarities among Central Hamersley Range species and lineages, *Pilbaranella* genus and the three Bathynellidae subfamilies. Austrobathynellinae\*: three species described, two species represented by male only. A.I= antenna I; A.II= antenna II; Th=thoracopod.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Gallobathynellinae | Bathynellinae | Austrobathynellinae\* | *Pilbaranella* | *Fortescuenella* | Bathynellidae sp SVW | Bathynellidae sp FLO |
| A.I: number of segments | 6/7 | 7 | 7 | 7 | 7 | 7 | na |
| A.II: number of segments | 6/7/8 | 7 | 7/8 | 7 | 7 | 7 | na |
| endopod segment 3 | short/long | long | very short | very short | short | very short | na |
| exopod: medial seta | present/absent | present/absent | absent | absent | absent | na | na |
| Mandible: |  |  |  |  |  |  | na |
| palp | 1 to 3 segments | 3 segments | 3 segments | 3 segments | 3 segments | na | na |
| pars molaris (number of teeth) | 2/3 | 2/4 | 5/6 | 6 | 7 |  | na |
| sexual dimorphism | yes/no | no | no | no | no | na | na |
| Th I-Th VII: endopod | 3/4 or 4 segments | 4 segments | 4 segments | 4 segments | 4 segments |  | na |
| Th VIII female: | protopod + 1/2 rami | protopod + 2 rami | protopod + 1 ramus | protopod + 1 ramus | protopod + 1 ramus | na | na |
| rami (endop-exop) | 1 segment | 1 segment | 2 segments | 1 segment | 2 segments | na | na |
| coxal seta | present/absent | present | absent | absent | absent | na | na |
| epipod | present/absent | present | absent | present | present | na | na |
| Th VIII male:  |  |  |  |  |  |  |  |
| penial region | 1 to 3 lobes, frontal projection, 0 to 2 crests | 3 lobes, frontal projection | 1 to 4 lobes, 0-1 crest   | 1 lobe | 1 lobe, frontal projection | na | na |
| basipod | vertical/inclined; not fused with the penial region/independent | vertical; not fused with the penial region/independent | vertical; partially or totally fused with the penial region | vertical; fused with the penial region | vertical; fused with the penial region | na | na |
| endopod | small or absent | small-1 segment | 1-2 segment | small, 1 segment | small, 1 segment | na | na |
| exopod | like exopod of thoracopods | like exopod of thoracopods | reduced/curve backwards | reduced/curve backwards | reduced/curve backwards | na | na |
| Uropod:  |  |  |  |  |  |  |  |
| sympod | 4 spines (maximum) | 4 spines (minimum) | 4 spines (maximum) | 4 spines | 4 spines | 5 spines | 4 spines |
| endopod | 2-4 claws + 4 setae | 3-4 claws + 3-4 setae | 2 claws + 3 setae + 1 special seta | 2 claws + 3 setae + 1 special seta  | 2 claws + 4 setae | 3 claws + 5 setae | 2 claws + 3 setae + 1 special seta  |