**S1 File. Information on eggs from deep-sea species and Penaeid species.** Deep-sea crustaceans (Decapoda) species and taxonomically close species to *Aristeus antennatus* with the depth ranges of adult distribution, egg diameter and egg density. Depth range extracted from Sealife Base (<https://www.sealifebase.ca>) or EOL (<https://eol.org>). \* Studied species; *n/a*, non available data; in grey cells, species taxonomically close to *Aristeus antennatus*.

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| --- | --- | --- | --- | --- | --- |
| **Species** | **Superfamily** | **Depth range (m)** | **Eggs diameter (µm)** | **Density (kg/m3)** | **Reference** |
| *Aristeus antennatus \** | Penaeoid | 173–3459 | 290–370 | n/a | [1] |
| *Aristaeomorpha foliacea* | Penaeoid | 359–461 | 359–461 | n/a | [2] |
| *Metapenaeus monoceros* | Penaeoid | 1–170 | 145–261 | n/a | [3] |
| *Metapenaeus ensis* | Penaeoid | 8–95 | 260–310 | n/a | [4] |
| Farfantep*enaeus duorarum* | Penaeoid | 0–330 | 230–320 | n/a | [5] |
| *Penaeus monodon* | Penaeoid | 0–150 | 270–280 | n/a | [6] |
| *Litopenaeus occidentalis* | Penaeoid | 2–160 | 197–238 | n/a | [7] |
| *Litopenaeus setiferus* | Penaeoid | 0–119 | 200–340 | n/a | [5] |
| *Litopenaeus stylirostris* | Penaeoid | 0–45 | 219–262 | n/a | [7] |
| Litop*enaeus vannamei* | Penaeoid | 0–72 | 271 | n/a | [8] |
| *Litopenaeus vannamei* | Penaeoid | 0–72 | 228–274 | n/a | [7] |
| *Farfantepenaeus aztecus* | Penaeoid | 0–200 | 180–280 | n/a | [5] |
| *Farfantepenaeus paulensis* | Penaeoid | 1–130 | 304 | n/a | [9] |
| *Acanthephyra acanthitelsonis* | Oplophoroid | 51.5–4434 | 640–920 | 1068 | [10] |
| *Acanthephyra acutifrons* | Oplophoroid | 357–4200 | 760–920 | 1050–1066 | [10] |
| *Acanthephyra curtirostris* | Oplophoroid | 300–5900 | 620–900 | 1057–1066 | [10] |
| *Acanthephyra pelagica* | Oplophoroid | 183–2500 | 680–1000 | 1063 | [10] |
| *Acanthephyra purpurea* | Oplophoroid | 300–3292 | 520–1120 | 1048–1075 | [10] |
| *Ephyrina bifida* | Oplophoroid | 11–5320 | 3520–4700 | 1026 | [10] |
| *Ephyrina hoskynii* | Oplophoroid | 455–2279 | 3120–4000 | 1027 | [10] |
| *Hymenodora gracilis* | Oplophoroid | 300–5400 | 2000–2300 | 1026–1030 | [10,11] |
| *Meningodora miccyla* | Oplophoroid | 400–1850 | 720–940 | 1054 | [10] |
| *Meningodora vesca* | Oplophoroid | 615–5393 | 620–1100 | 1047 | [10] |
| *Notostomus auriculatus* | Oplophoroid | 0–1200 | 640–980 | 1054 | [10] |
| *Notostomus elegans* | Oplophoroid | 450–5380 | 740–800 | 1051 | [10] |
| *Oplophorus spinosus* | Oplophoroid | 0–2700 | 3140–3210 | 1025–1031 | [10,12] |
| *Systellaspis cristata* | Oplophoroid | 100–5300 | 2720–4120 | 1028 | [10] |
| *Systellaspis braueri* | Oplophoroid | 500–2000 | 3120–4640 | 1027 | [10] |
| *Systellaspis debilis* | Oplophoroid | 0–3716 | 1880–412 | 1028–1031 | [10] |
| *Heterocarpus ensifer* | Pandalid | 57–3000 | 540–400 | 1081 | [10] |
| *Heterocarpus grimaldii* | Pandalid | 500–1473 | 520–640 | 1075 | [10] |
| *Nematocarcinus cursor* | Nematocarcinid | 542–1943 | 540–420 | 1075 | [10] |
| *Nematocarcinus exilis* | Nematocarcinid | 5230–5340 | 640–500 | 1082 | [10] |
| *Pasiphaea hoplocerca* | Pasiphaeoid | 92.5–5180 | 2240–1600 | 1041 | [10] |
| *Pasiphaea multidentata* | Pasiphaeoid | 7–4844 | 2600–2000 | 1038 | [10, 13] |
| *Plesionika edwardsii* | Pasiphaeoid | 50–850 | 440–340 | 1079 | [10] |
| *Parapasiphae sulcatifrons* | Pasiphaeoid | 500–5400 | 3200–4400 | 1026 | [10, 14] |
| *Chaceon affinis* | Geryonid | 130–2047 | 585–655 | n/a | [15] |
| *Parapontophilus talismani* | Crangonoid | n/a | 740–520 | 1076 | [10] |
| *Paralomis verrilli* | Lithodid | 850–2379 | 2000 | n/a | [16] |
| *Paromola cuvieri* | Homolid | 10–1212 | 585–655 | n/a | [17] |

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