



Key to the species of Augaptilidae Euaugaptilus occurring in the China Seas

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Shih, Chang-tai; Chen, Qing-Chao; Lan, Yang-Chi; Hsiao, Shih-Hui; and Weng, Chi-Yu (2022) "Key to the species of Augaptilidae Euaugaptilus occurring in the China Seas," *Journal of Marine Science and Technology*. Vol. 30: Iss. 5, Article 22.

DOI: 10.51400/2709-6998.2613

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REVIEW-TAXONOMIC INDEX

Key to the Species of Augaptilidae *Euaugaptilus* Occurring in the China Seas

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Euaugaptilus affinis(13a/f) (male unknown), *angustus*(11b/28a/f), *brodskyi*(16b/18b/f), *elongatus*(12a/22a/f), *facilis*(16a/25a/f), *filigerus*(14a/19a/f), *gracilis*(15a/f) (male unknown), *hecticus*(3a/18a/f), *laticeps*(13b/28b/f), *longimanus*(4b/25b/f), *magnus*(10a/26a/f), *marginatus*(7a/f) (male unknown), *nodifrons*(11a/23a/f), *oblongus*(10b/27a/f), *palumboi*(5a/20b/f), *rigidus*(4a/22b/f)

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Available online 14 November 2022

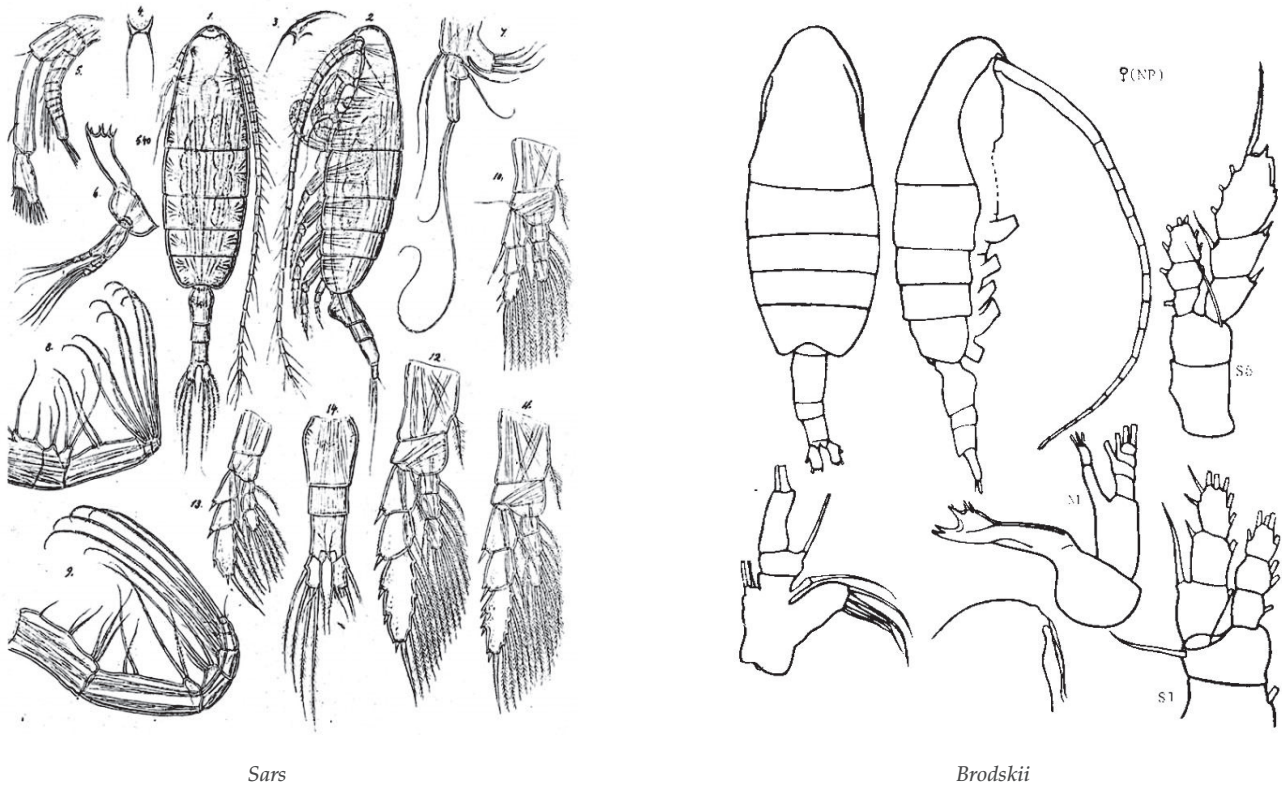
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Euaugaptilus affinis Sars, G.O. 1920 (Size: female, 5.40 mm; male, unknown)

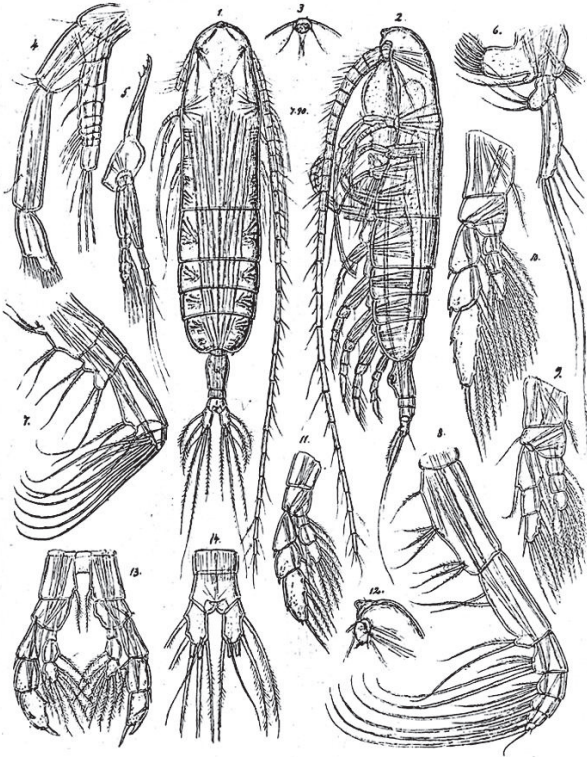


Euaugaptilus affinis Sars, G.O. 1920

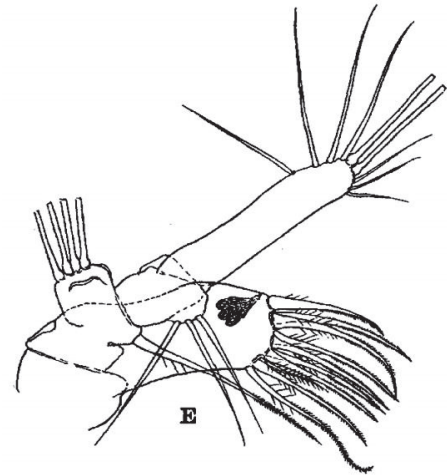
Sars, 1924. Pl.88, Figs. 1–14. *Euaugaptilus affinis* Sars, G.O. 1920, Female: 1/2, habitus (dorsal/lateral); 3, forehead (lateral); 4, rostrum; 5, antenna; 6, mandible; 7, maxillule; 8, maxilla; 9, maxilliped; 10–12, legs 1–3; 13, leg 5; 14, urosome (dorsal).

Brodiskii, 1950: Fig. 269. As *Euaugaptilus pseudaffinis*. With doubt. Female (from NW Pacific): habitus (dorsal and lateral); forehead (lateral); mandible; maxillule; leg 1, leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus affinis Sars, G.O. 1920

Sars, 1924



Sewell, 1947

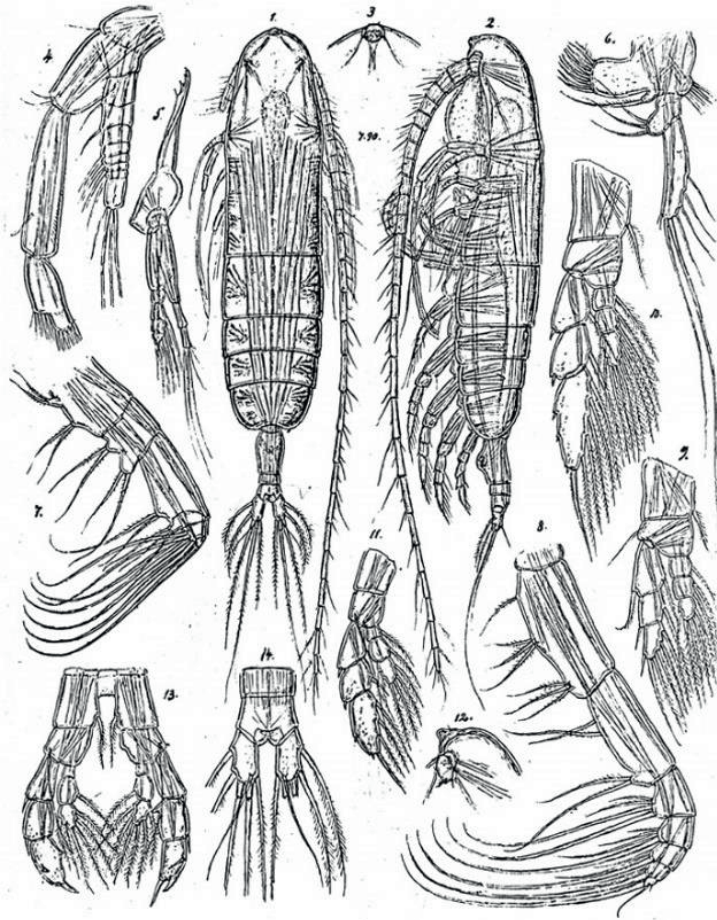
Euaugaptilus affinis Sars, G.O. 1920

Sars, 1924. Pl.91, Figs. 1–14. Female: 1/2, habitus (dorsal/lateral); 3, rostral prominence (ventral); 4, antenna; 5, mandible; 6, maxillule; 7, maxilla; 8, maxilliped; 9, leg 1; 10, leg 3; 11, leg 5. Male: 12, forehead (lateral); 13, leg 5; 14, posterior part of urosome (dorsal).

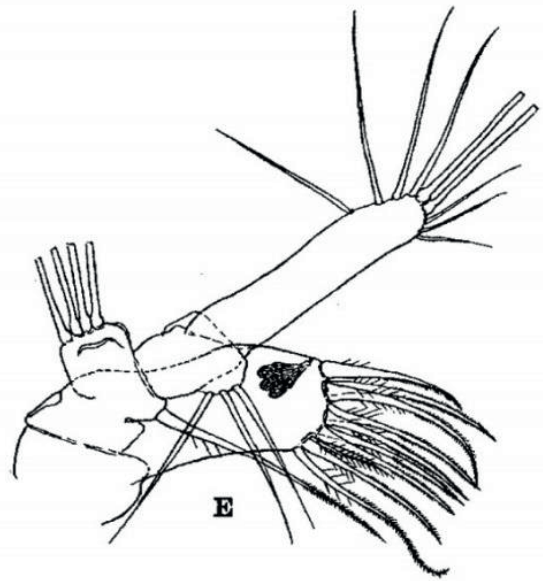
Sewell, 1947. Fig. 60, E. Female (from N Arabian Sea): E, maxillule.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed ay 17, 2021].

Euaugaptilus angustus (Sars, 1905) (Size: female, 5.76–7.90 mm; male, 5.12–5.48 mm)



Sars, 1924



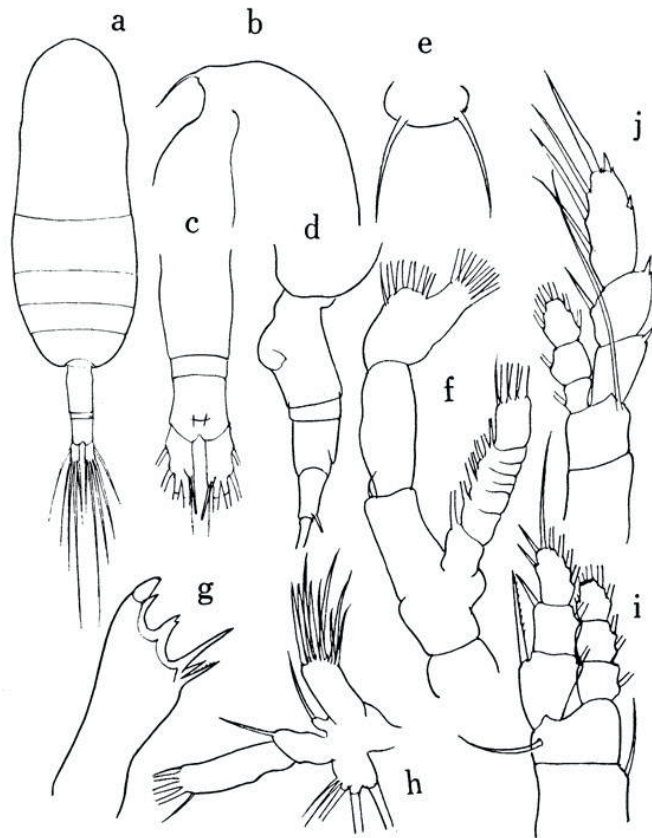
Sewell, 1947

Sars, 1924. Pl.91, Figs. 1–14. Female: 1/2, habitus (dorsal/lateral); 3, rostral prominence (ventral); 4, antenna; 5, mandible; 6, maxillule; 7, maxilla; 8, maxilliped; 9, leg 1; 10, leg 3; 11, leg 5. Male: 12, forehead (lateral); 13, leg 5; 14, posterior part of urosome (dorsal).

Sewell, 1947. Fig. 60, E. Female (from N Arabian Sea): E, maxillule.

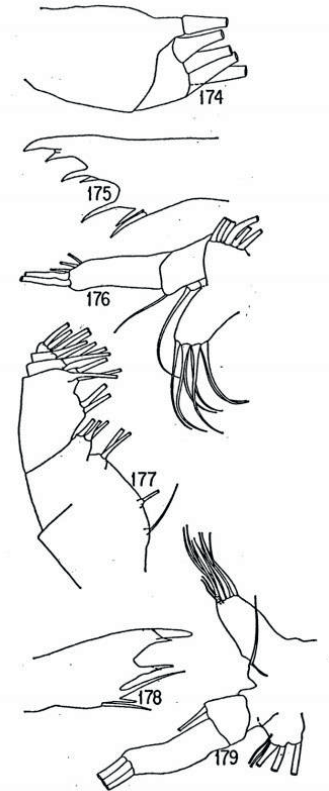
Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Euaugaptilus brodskyi Hülsemann, 1967 (Size: female, 3.95–6.83 mm; male, 3.33–5.90 mm)



Tanaka

Euaugaptilus brodskyi Hülsemann, 1967



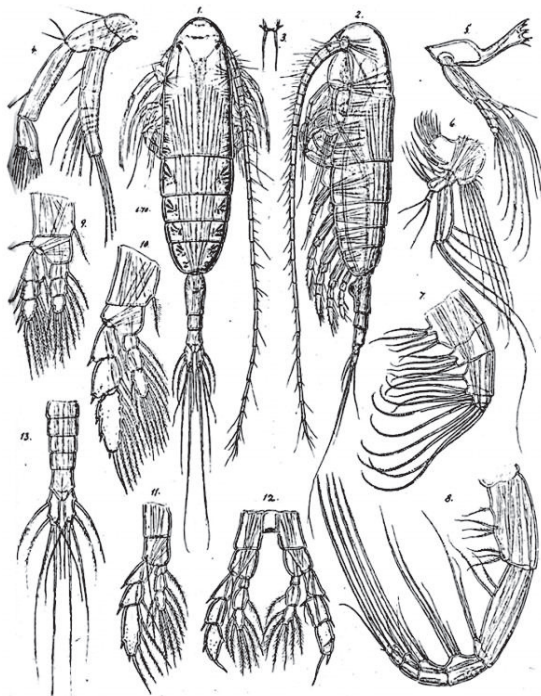
Grice & Hülsemann

Tanaka, 1964. Fig. 202. As *Euaugaptilus mixtus*. Female: a, habitus (dorsal); b, forehead (lateral); c/d, urosome (dorsal/lateral); e, rostrum (frontal); f, antenna; g, masticatory edge of mandible; h, maxillule; j, leg 5.

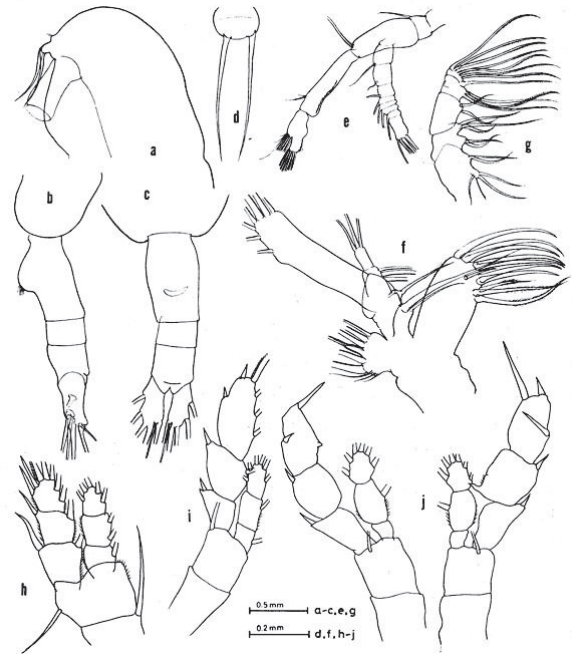
Grice & Hülsemann, 1967. Figs. 174–179. Female (Indian Ocean): 174, mandibular palp; 175, mandibular biting edge; 176, maxillule; 177, maxilla. Male: 178, Mandibular biting edge; 179, maxillule.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus elongatus (Sars, G.O.1905) (Size: female, 5.00–6.72 mm; male, 5.20–6.50 mm)



Sars



Tanaka & Omori

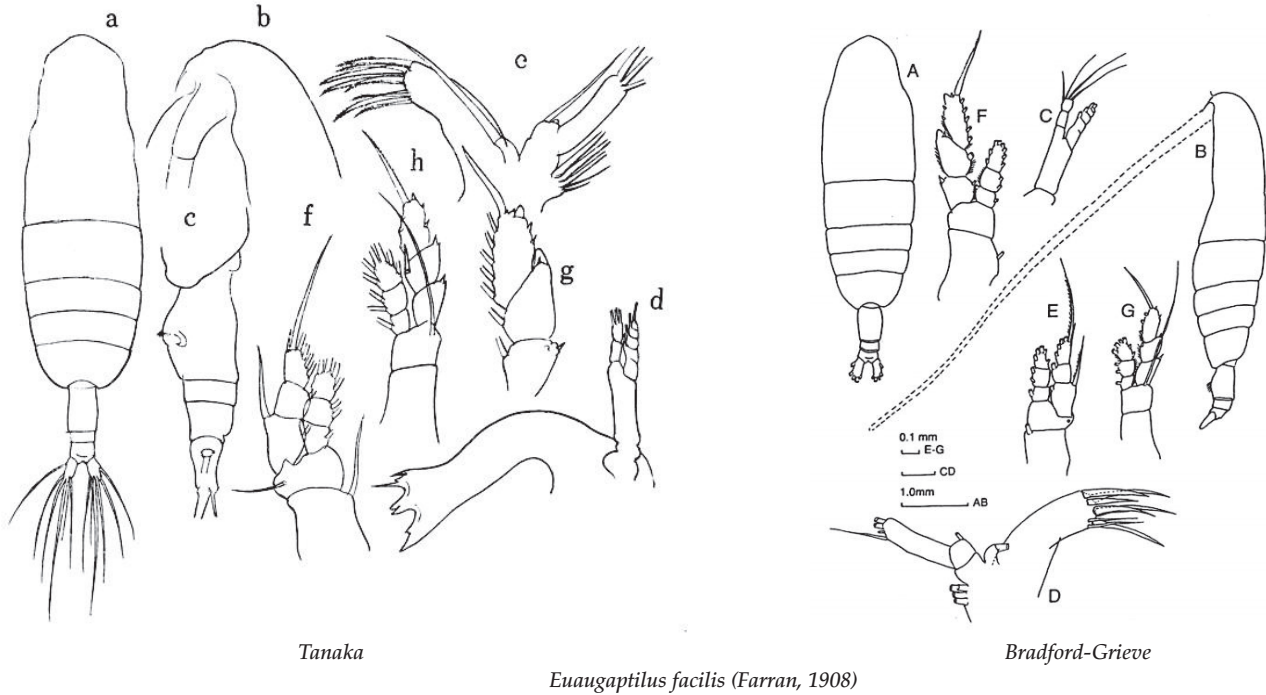
Euaugaptilus elongatus (Sars, G.O.1905)

Sars, 1924. Pl.84, Figs. 1–13. Female: 1/2, habitus (dorsal/lateral); 3, rostrum; 4, antenna; 5, mandible; 6, maxillule; 7, maxilla; 8, maxilliped; 9, leg 1; 10, leg 3; 11, leg 5 (posterior). Male: 12, leg 5; 13, urosome (dorsal).

Tanaka & Omori, 1974. Fig. 6. Female: a, forehead (lateral); b/c, pediger 5 and urosome (lateral/dorsal); d, rostrum (frontal); e, antenna; f, maxillule; g, maxilla; h, leg 1; i, leg 5. Male: j, leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Euaugaptilus facilis (Farran, 1908) (Size: female, 4.00–5.91 mm; male, 3.96–5.00 mm)

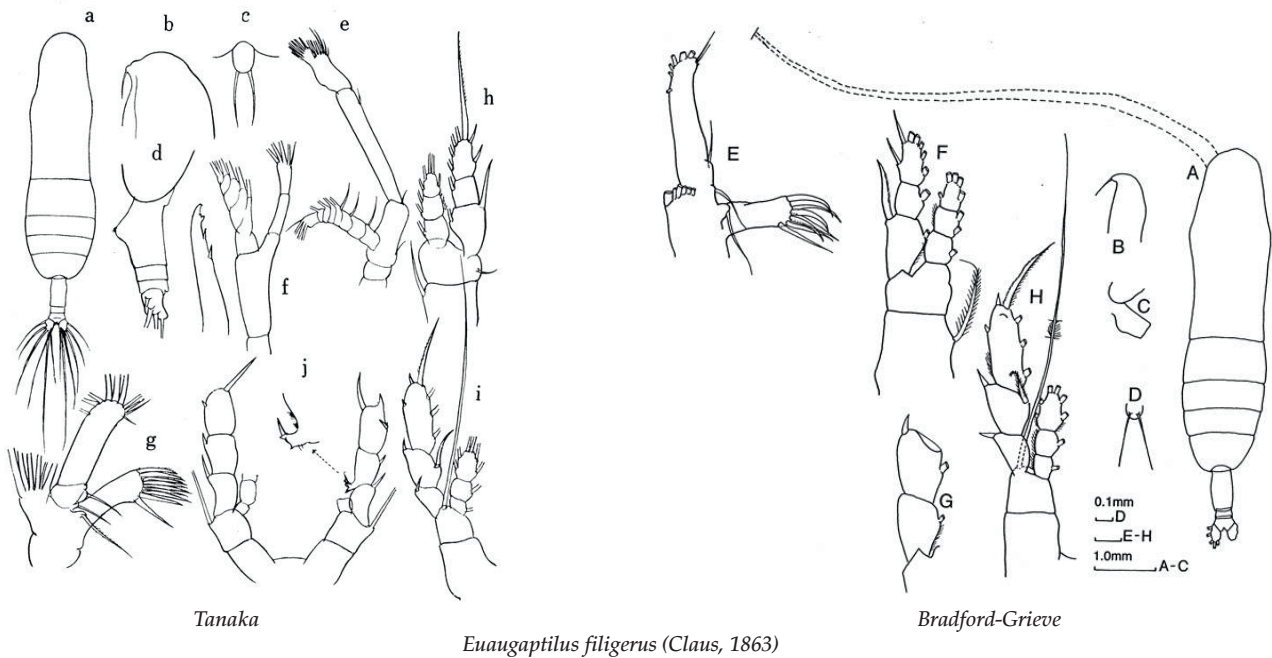


Tanaka, 1964, Fig. 204. *Euaugaptilus facilis* (Farran, 1908), Female: a, habitus (dorsal); b, forehead (lateral); c, pediger 5 and urosome (lateral); d, mandible; e, maxillule; f, leg 1; g, leg 3 exopod; leg 5.

Bradford-Grieve. 1999. Fig. 22. *Euaugaptilus facilis* (Farran, 1908), Female: A/B, habitus (dorsal/lateral); C, mandibular palp; D, maxillule; E, leg 1; F, leg 3; G, leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Euaugaptilus filigerus (Claus, 1863) (Size: female, 4.50–7.64 mm; male, 4.00–5.76 mm)

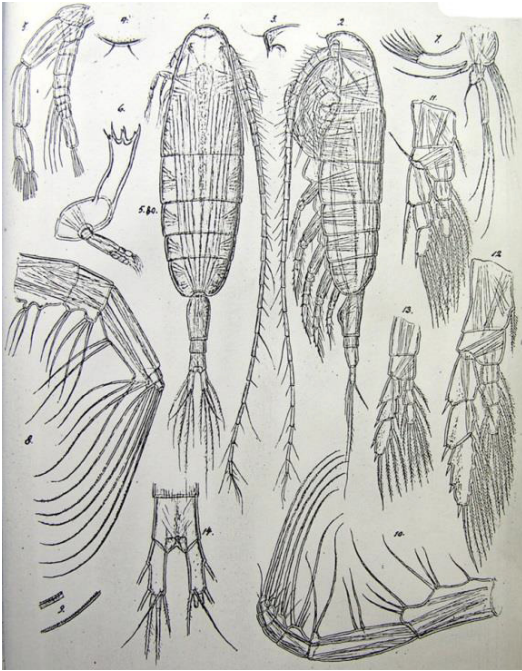


Tanaka, 1964. Fig. 198. *Euaugaptilus filigerus* (Claus, 1863), Female: a, habitus (dorsal); b, forehead (lateral); c, rostrum (dorsal); d, pediger 5 and urosome (lateral); e, antenna; f, mandibular palp and masticatory edge); g, maxillule; h, leg 1; i, leg 5. Male: j, leg 5 (blown: right leg exopod 2nd segment with a characteristic process on the proximal inner margin).

Bradford-Grieve, 1999. Fig. 23. *Euaugaptilus filigerus* (Claus, 1863), Female: A, habitus (dorsal); B, anterior head (lateral); C, genital double-somite (lateral); D, rostrum (frontal); E, maxillule; F, leg 1; G, leg 3, exopod segments 1 and 2; H, leg 5.

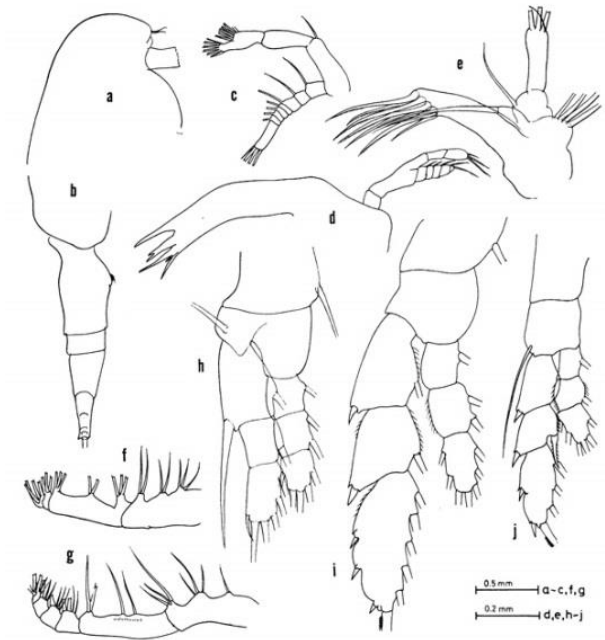
Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus gracilis (Sars, G.O. 1905) (Size: female, 5.80–6.20 mm; male, unknown)



Sars

Euaugaptilus gracilis (Sars, G.O. 1905)



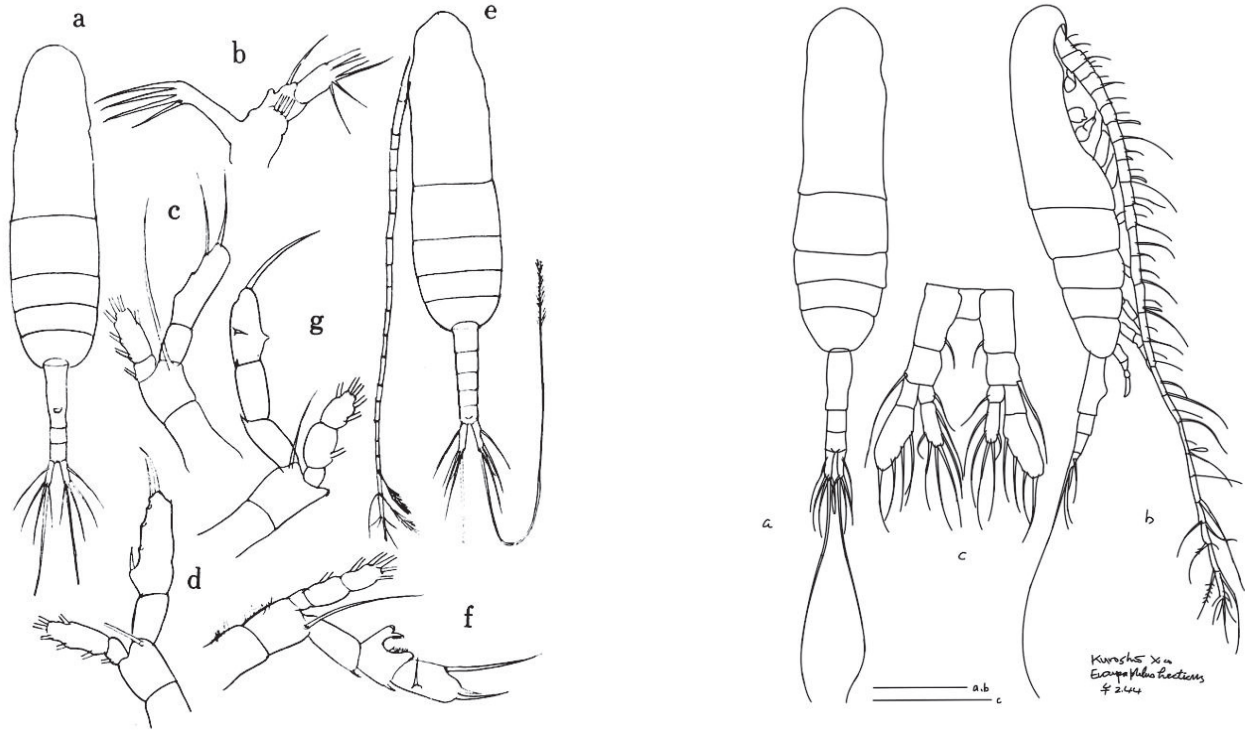
Tanaka & Omori

Sars, 1924. Pl.89, Figs. 1–14. *Euaugaptilus gracilis* (Sars, G.O. 1905), Female: 1/2, habitus (dorsal/lateral); 3, forehead (lateral); 4, rostral filaments; 5, antenna; 6, mandible; 7, maxillule; 8, maxilla; 9, portion of distal seta of maxilla (enlarged); 10, maxilliped; 11, leg 1; 12, leg 3; 13, leg 5; 14, anal somite and caudal rami (dorsal).

Tanaka & Omori, 1974. Fig. 10. *Euaugaptilus gracilis* (Sars, G.O. 1905), Female: a, forehead (lateral); b, pediger 5 and urosome (lateral); c, antenna; d, mandible; e, maxillule; f, maxilla; g, maxilliped; h, leg 1; i, leg 4; j, leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus hecticus (Giesbrecht, 1889) (Size: female, 1.60–2.85 mm; male, 1.20–2.43 mm)



Tanaka

Euaugaptilus hecticus (Giesbrecht, 1889)

Original

Tanaka, 1964. Fig. 209. *Euaugaptilus hecticus* (Giesbrecht, 1889), Female: a, habitus (dorsal); b, maxillule; c, leg 5, d, leg 5 of immature specimen. Male: e, habitus (dorsal); f, right leg 5 (anterior); g, left leg 5 (anterior). Grasping antennule on the right.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Original. *Euaugaptilus hecticus* (Giesbrecht, 1889), female, 2.44 mm, east of Taiwan. a/b, habitus (dorsal/lateral); c. leg 5.

Euaugaptilus laticeps (Sars, G.O. 1905) (Size: female, 6.09–10.13 mm; male, 6.30–9.90 mm)

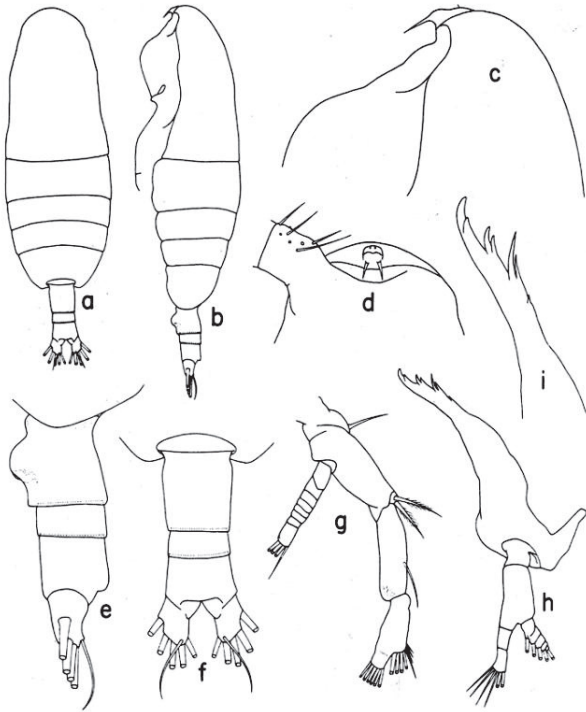


Fig. 21

Euaugaptilus laticeps (Sars, G.O. 1905)

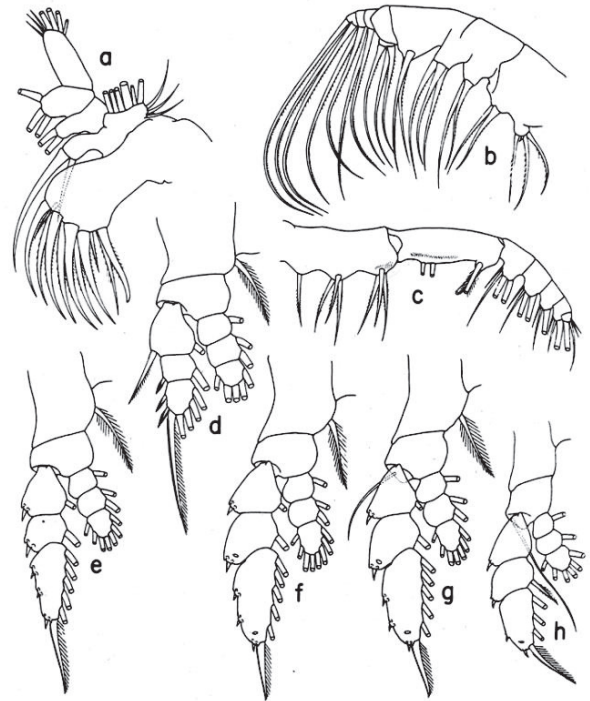
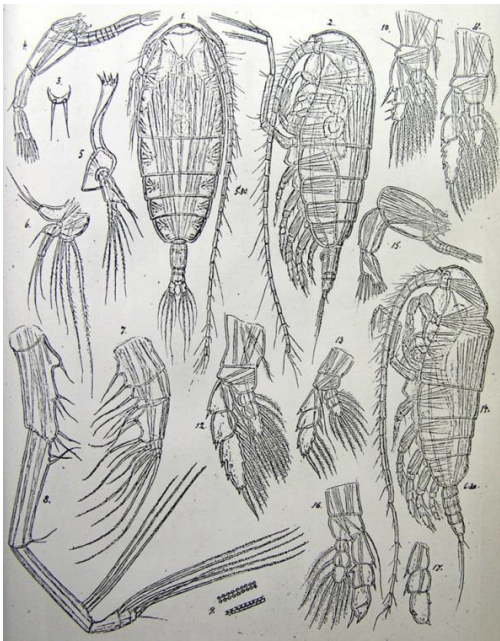


Fig. 22

Park, 1993. Fig. 21. *Euaugaptilus laticeps* (Sars, G.O. 1905), Female: a/b, habitus (dorsal/lateral); c/d, forehead (lateral/ventral); e/f, urosome (lateral/dorsal); g, antenna; h, mandible; i, mandibular biting edge. Fig. 22. Female: a, maxilule; b, maxilla; c, maxilliped; d-h, legs 1 to P5 (anterior).

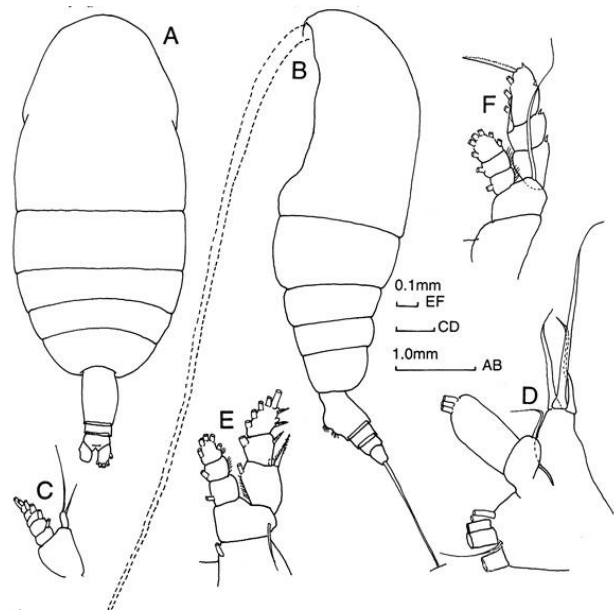
Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus longimanus Sars, G.O. 1905 (Size: female, 4.30–9.50 mm; male, 5.72–6.30 mm)



Sars

Euaugaptilus longimanus Sars, G.O. 1905



Bradford-Grieve

Sars, 1924. Pl.92, Figs. 1–17. *Euaugaptilus longimanus* Sars, G.O. 1905), Female: 1/2, habitus (dorsal/lateral); 3, rostrum; 4, antenna; 5, mandible; 6, maxillule; 7, maxilla; 8, maxilliped; 9, portion of distal seta of maxilliped (enlarged); 10–12, legs 1–3; 13, leg 5. Male: 14, habitus (lateral); 15, antenna; 16, right leg 5; 17, exopodal segments of left leg 5.

Bradford-Grieve, 1999. Fig. 27. *Euaugaptilus longimanus* Sars, G.O. 1905), Female: A/B, habitus (dorsal/lateral); C, mandibular palp; D, maxillule; E, leg 1; F, leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus magnus (Wolfenden, 1904) (Size: female, 6.50–8.90 mm; male, 6.96–8.80 mm)

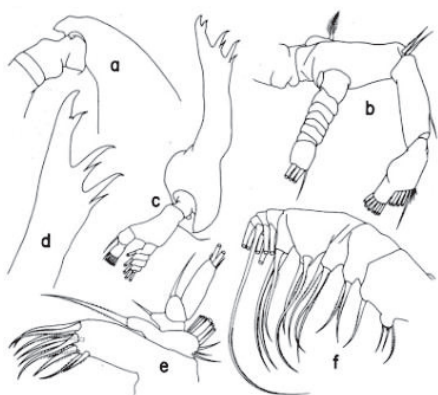


Fig. 29

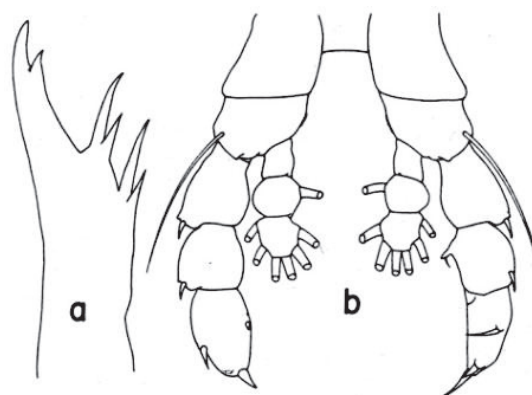
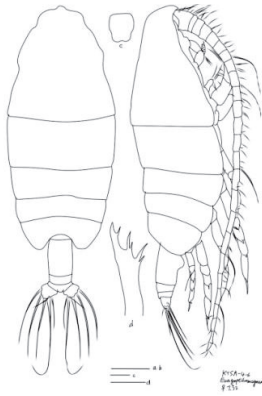


Fig. 30

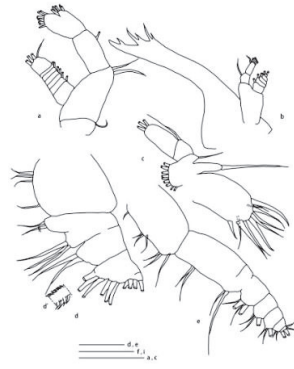
Euaugaptilus magnus (Wolfenden, 1904)

Park, 1993. Fig. 29. Female: a, forehead (lateral); b, antenna; c, mandible; d, mandibular biting edge; e, maxillule; f, maxilla. Fig. 30. Male: a, mandible (biting edge); b, leg 5 (posterior).

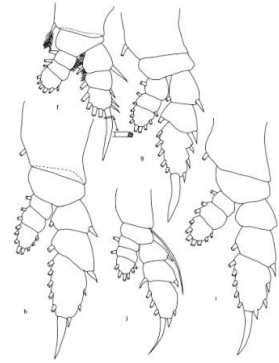
Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Euaugaptilus magnus (Wolfenden, 1904)

Habitus



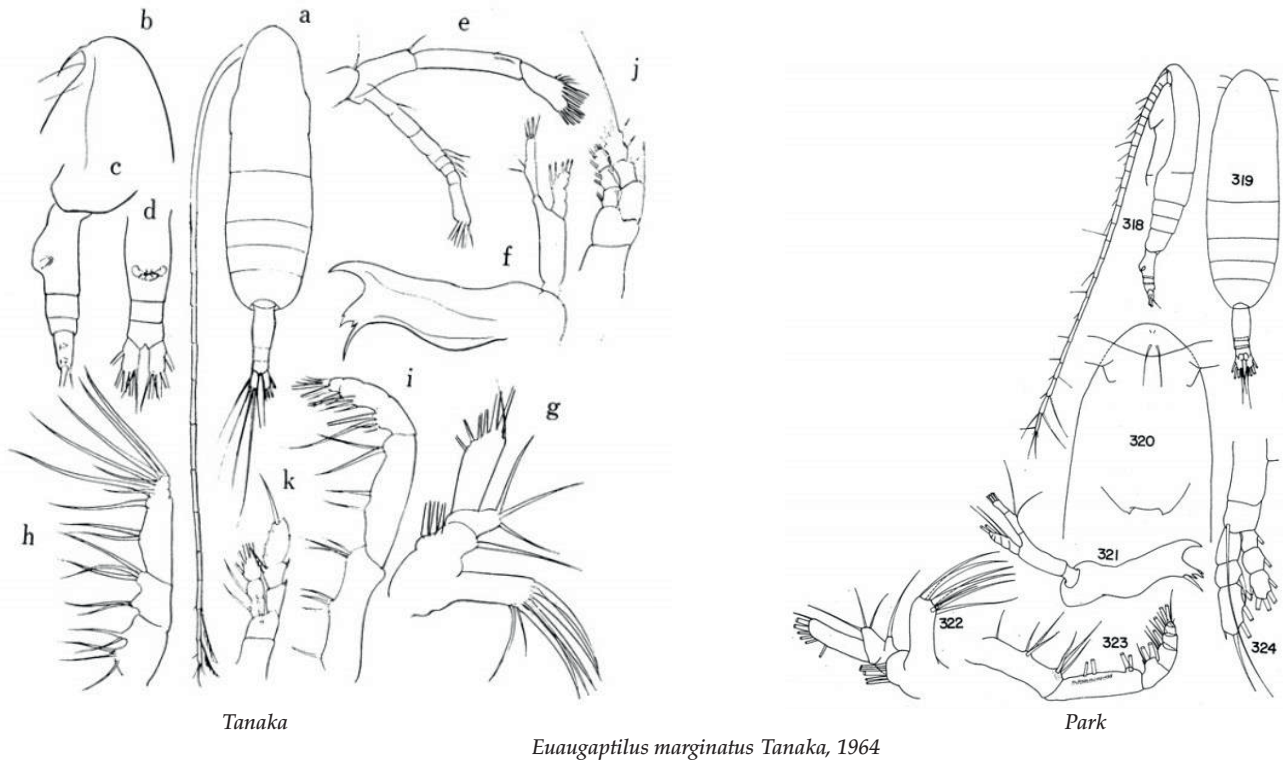
Mouth parts



Legs

Original. *Euaugaptilus magnus* (Wolfenden, 1904), Female, 7.32 mm, east of Taiwan (23°55'N, 122°51'E, 200 m), a/b, habitus (dorsal/lateral), c. rostrum (frontal); d. mandibular chewing edge. Mouth parts: a. Antenna; b. mandible; c. mxillule; d. maxilla; e. maxilliped; f-j, legs 1–5.

Euaugaptilus marginatus Tanaka, 1964 (Size: female, 1.66–2.26 mm; male, unknown)



Tanaka, 1964. Fig. 205. *Euaugaptilus marginatus* Tanaka, 1964, Female: a, habitus (dorsal); b, forehead (left lateral side); c, pediger 5 and urosome (lateral); d, urosome (ventral); e, antenna; f, mandible; g, maxillule; h, maxilla; i, maxilliped; j, leg 1; j, leg 5.

Park, 1970. Figs. 318–324. As *Euaugaptilus longiantennalis*. Female (from Caribbean Sea): 318/319, habitus (lateral/dorsal); 320, head (ventral); 321, mandible; 322, maxillule; 323, maxilliped; 324, leg 5 (posterior)

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 17, 2021].

Euaugaptilus nodifrons (Sars, G.O. 1905) (Size: female, 5.10–9.50 mm; male, 4.80–8.40 mm)

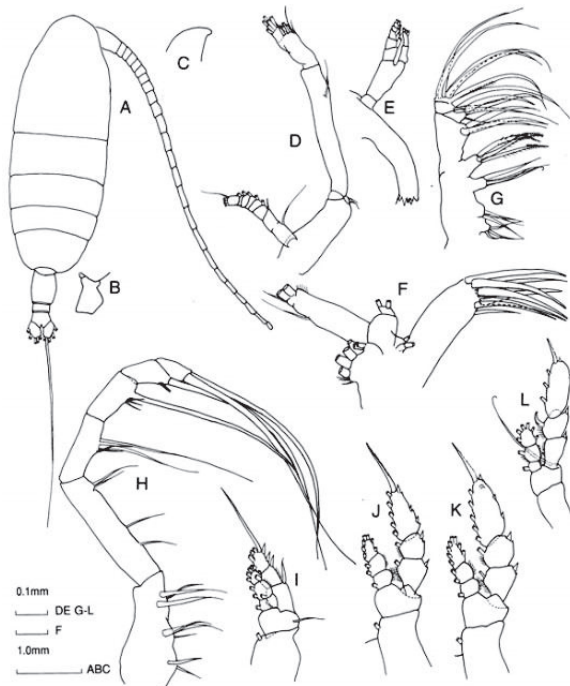


Fig. 16

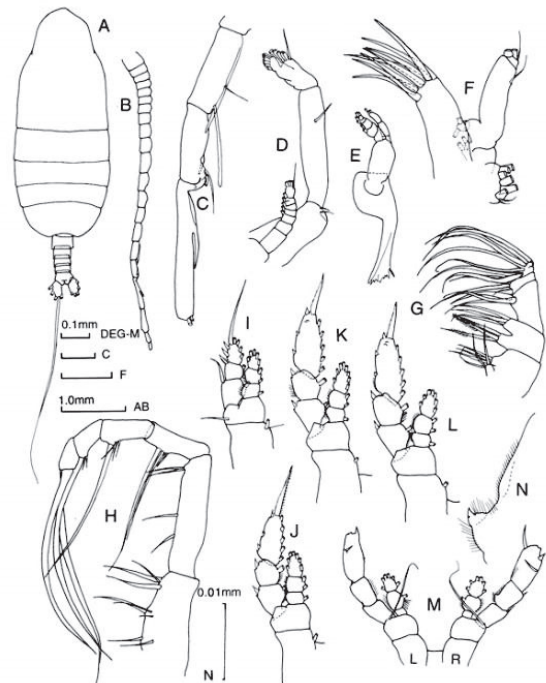


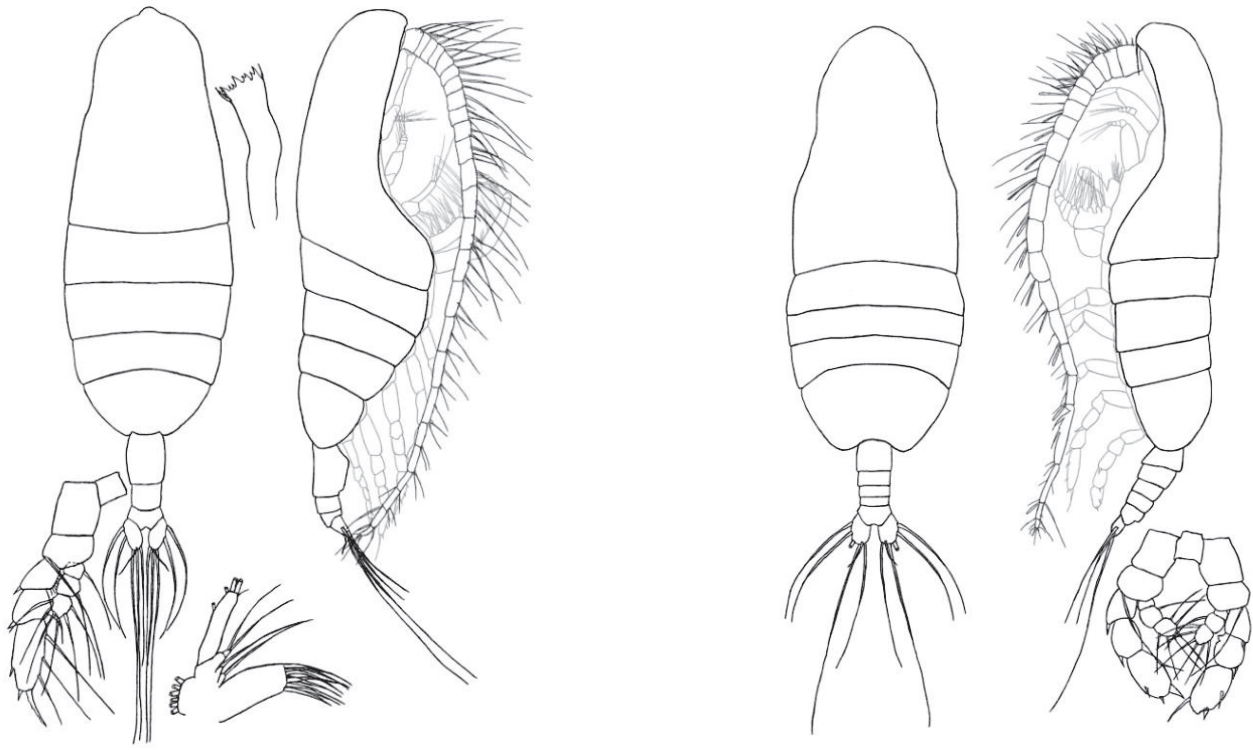
Fig. 17

Euaugaptilus nodifrons (Sars, G.O. 1905)

Bradford-Grieve, 1999. Fig. 16. Female: A, habitus (dorsal); B, genital double-somite (lateral); C, forehead (lateral); D, antenna; E, mandible; F, maxillule; G, maxilla; H, maxilliped; I–K, legs 1–3; K, leg 5. Fig. 17. Male: A, habitus (dorsal); B, left antennule; C, three segments around the joint on left antennule; D, antenna; E, mandible; F, maxillule; G, maxilla; H, maxilliped; I–L, legs 1–4; M, leg 5 (L = left leg; R = right leg); N, detail of inner border of exopod segment 2 of right leg 5.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 17, 2021].

Euaugaptilus nodifrons (Sars, G.O. 1905)



Female

Euaugaptilus nodifrons (Sars, G.O. 1905)

Male

Original. *Euaugaptilus nodifrons* (Sars, 1905), Female, 7.80 mm, South China Sea, habitus (dorsal/lateral); mandibular chewing edge; maxillule; leg 5. Male, 6.84 mm, South China Sea, habitus (dorsal/lateral); leg 5 (posterior).

Euaugaptilus oblongus (Sars, G.O. 1905) (Size: female, 4.65–7.40 mm; male, 5.40–5.70 mm)

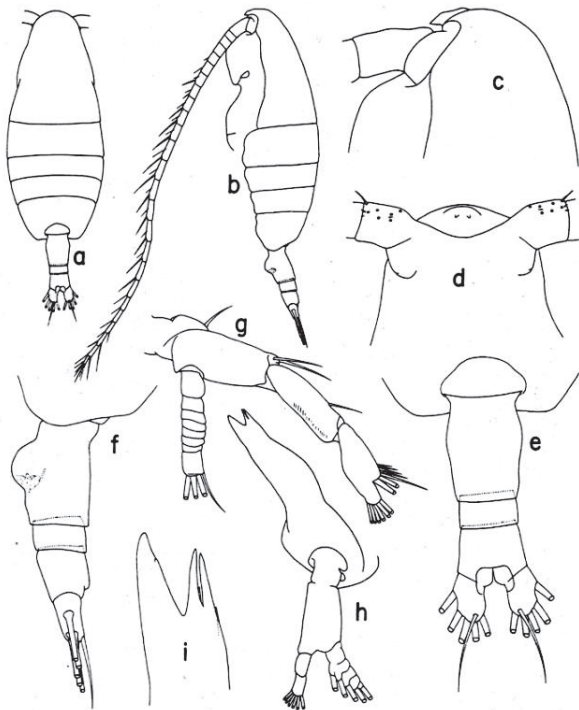


Fig. 31

Euaugaptilus oblongus (Sars, G.O. 1905)

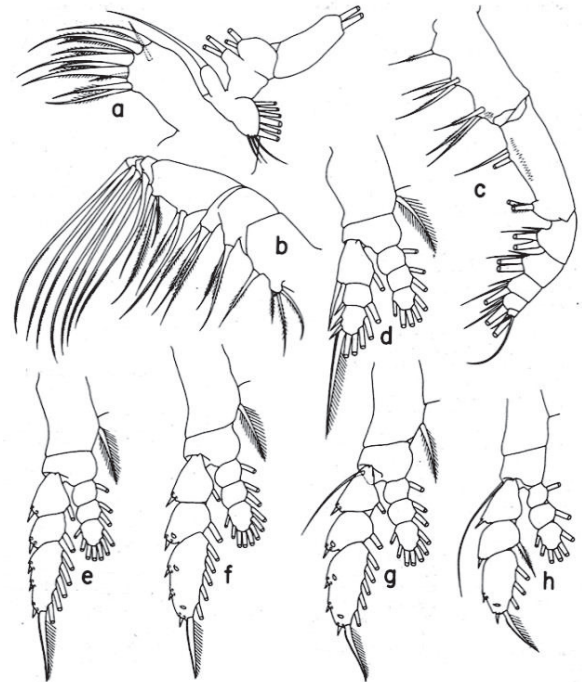
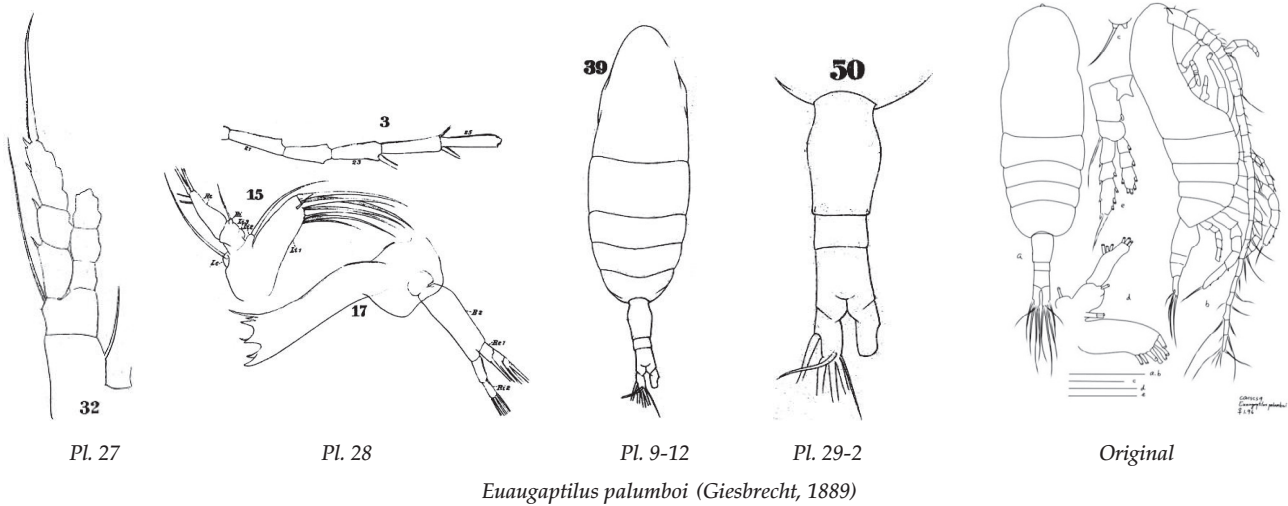


Fig. 32

Park, 1993. Fig. 31. *Euaugaptilus oblongus* (Sars, G.O. 1905), Female: a/b, habitus (dorsal/lateral); c/d, forehead (lateral/ventral); e/f, urosome (dorsal/lateral); g, antenna; h, mandible; i, mandibular biting edge. Fig. 32. Female: a, maxillule; b, maxilla; c, maxilliped; d-h, legs 1 to 5 (anterior).

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed May 18, 2021].

Euaugaptilus palumboi (Giesbrecht, 1889) (Size: female, 1.90–2.30 mm; male, 1.82–1.98 mm)

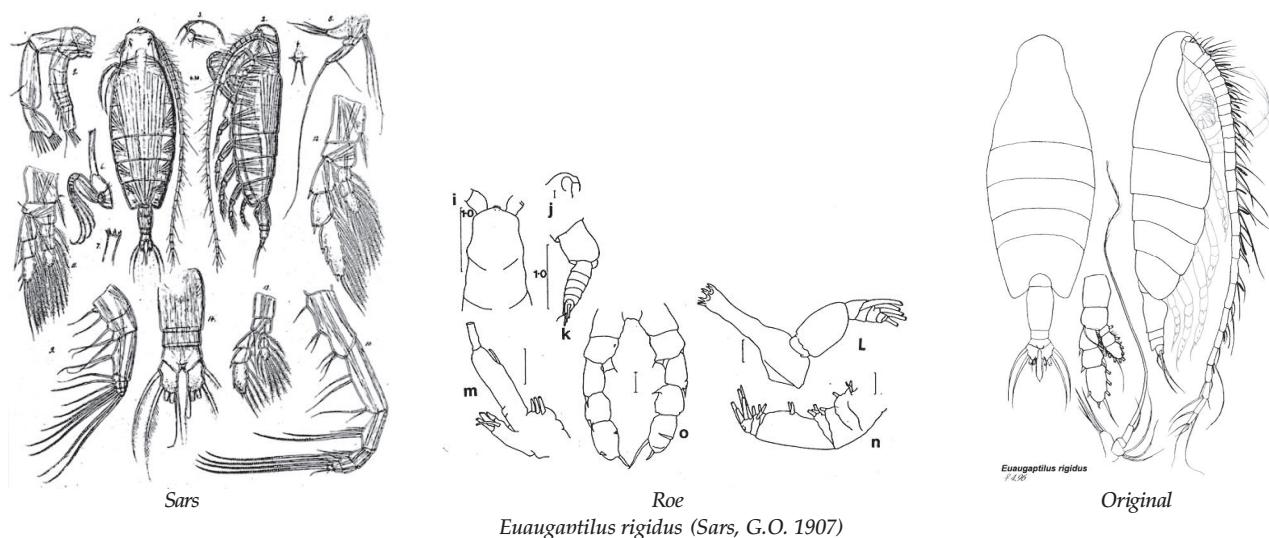


Giesbrecht, 1892. As *Augaptilus palumbii*. Pl. 27, Fig. 32. Female, leg 5. Pl. 28, Figs. 3, 15 and 17. Female: 3, antennule (distal segments); 15, maxillule (anterior); 17, mandible. Pl. 29–1. Fig. 39, Female, habitus (dorsal); Pl. 29–2. Fig. 50. Female, urosome (ventral).

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 18, 2021].

Original, *Euaugaptilus palumboi* (Giesbrecht, 1889), female, 1.96 mm, South China Sea, a/b, habitus (dorsal/lateral); c. rostrum (frontal); d. maxillule; e. Leg 5.

Euaugaptilus rigidus (Sars, G.O. 1907) (Size: female, 4.30–5.50 mm; male, 4.30 mm)



Sars, 1924. Pl.CIII, Figs. 1–14. Female: 1/2, habitus (dorsal/lateral); 3, forehead (lateral); 4, rostrum; 5, antenna; 6, mandible; 7, mandibular masticatory edge; 8, maxillule; 9, maxilla; 10, maxilliped; 11, leg 1; 12, leg 3; 13, leg 5; 14, urosome (dorsal).

Roe, 1975. Fig.28. Male: i, head (dorsal); j, forehead and rostrum (right lateral side); k, pediger 5 and urosome (lateral); l, mandible; m, maxillule; n, maxilla; o, leg 5 (posterior). Bar scale: 0.1mm unless indicated.

Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en> [Accessed April 18, 2021].

Original. *Euaugaptilus rigidus* (Sars, 1907), female, 4.96 cm, habitus (dorsal/lateral); maxillule; leg 5.