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Key to the species of Euchaetidae Euchaeta occurring in the China Seas

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REVIEW-TAXONOMIC INDEX

Key to the Species of Euchaetidae *Euchaeta* Occurring in the China Seas

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Euchaeta acuta(10b/17a/f), *concinna*(6b/15a/f), *indica*(4a/13b/f), *longicornis*(6a/15b/f), *media*(10a/19b/f), *plana*(5a/14a/f), *pubera*(9a/19a/f), *rimana*(4b/13a/f), *spinosa*(7a/16b/f), *tenuis*(9b/18b/f) (* Marina species group: *indica*, *rimana*; Concinna species group: *concinna*, *longicornis*, *plana*; Acuta species group: *acuta*, *media*, *pubera*, *tenuis*; Spinosa: *spinosa*)

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Euchaeta acuta Giesbrecht, 1892 (Size: female, 3.40–4.70 mm; male: 3.20–4.80 mm)

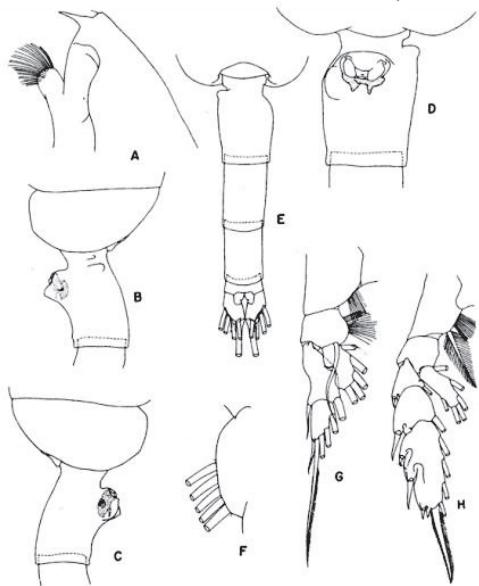


Fig. 69

Euchaeta acuta Giesbrecht, 1892

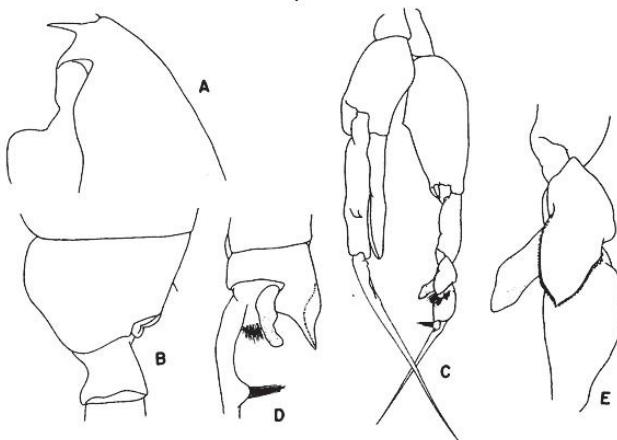
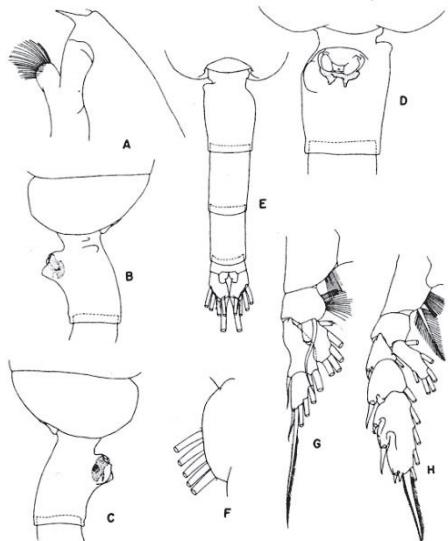


Fig. 70

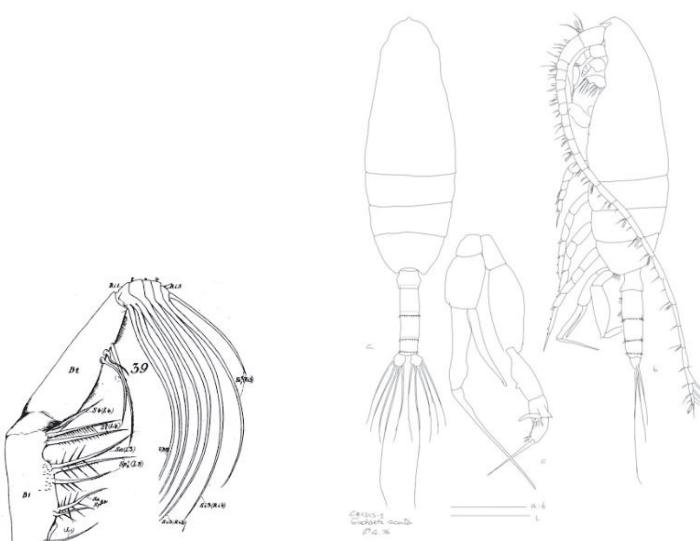
Park, 1978. Fig. 69. *Euchaeta acuta* Giesbrecht, 1892, Female: A, forehead (lateral); B/C, pediger 5 and genital double-somite (left/right); D, genital double-somite (ventral); E, urosome (dorsal); F, outer lobe of maxillule; G/H, legs 1/2 (anterior). Fig. 70. Male: A, forehead (lateral); B, pediger 5 and genital double-somite (lateral); C, leg 5 (anterior); D/E, middle part of left leg 5 exopod (medial/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 12, 2021].

Euchaeta acuta Giesbrecht, 1892



Park, 1978



Giesbrecht, 1892
Euchaeta acuta Giesbrecht, 1892

Original

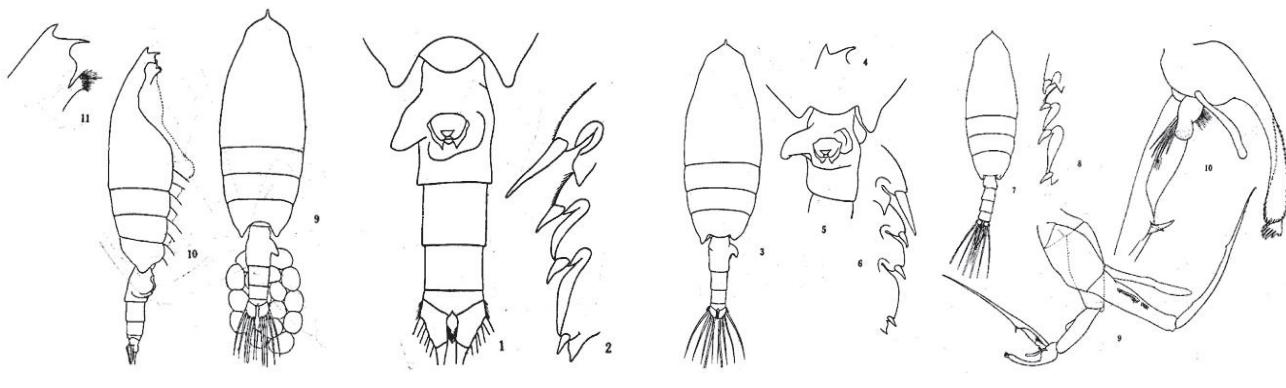
Park, 1978: Fig. 69. *Euchaeta acuta* Giesbrecht, 1892, Female. A. forehead (lateral); B/C. pediger 5 & genital double-somite (left/right); D. genital double-somite (ventral); E. urosome (dorsal); F. maxillule coxal epipodite; G/H. leg 1/2.

Giesbrecht, 1892: pl. 16, Fig. 39. Female. Maxilliped (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 12, 2021].

Original, *Euchaeta acuta* Giesbrecht, 1892, Male. a/b. habitus (dorsal, lateral); c. leg 5 (anterior).

Euchaeta concinna Dana, 1849 (Size: female, 2.10–3.75; male, 2.24–3.10 mm)



Pl. 14

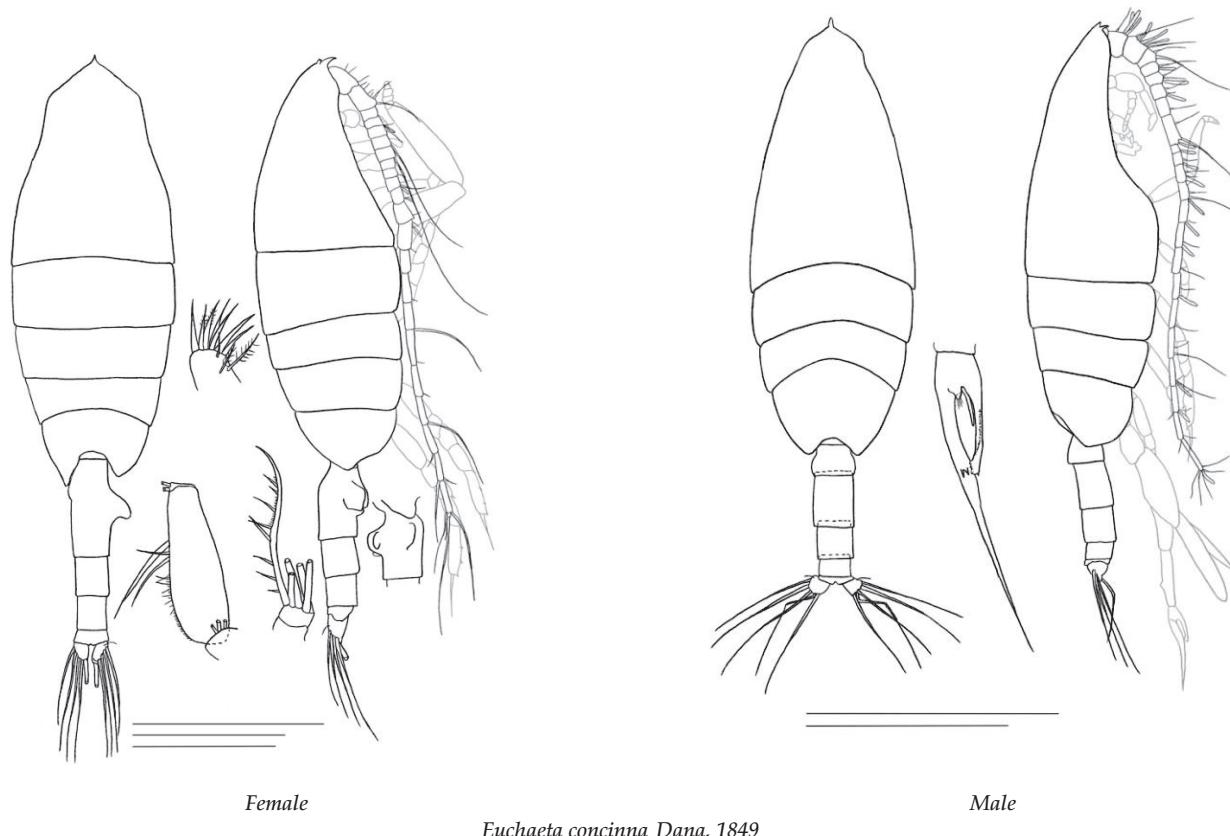
Pl. 15

Pl. 16 (3-6)

Pl. 16 (7-10)

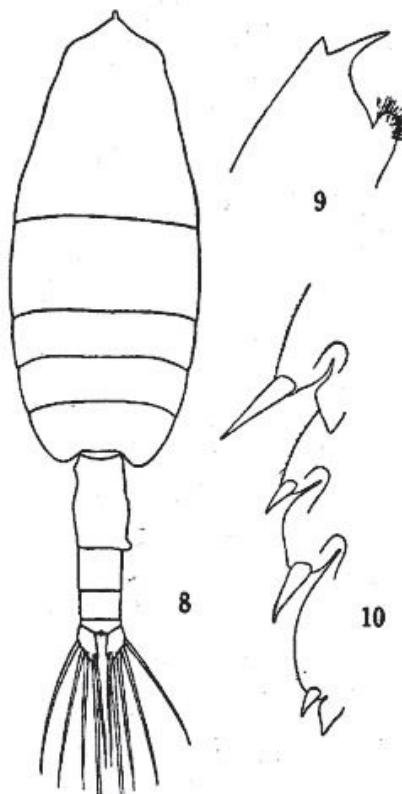
Euchaeta concinna Dana, 1849

Chen & Zhang, 1965. Pl.14, 9–11. As *Forma typica*. Female (from E China Sea): 9/10, habitus (dorsal/lateral); 11, forehead (lateral). Pl.15, 1–2. As *Forma typica*. Female: 1, urosome (ventral); 2, outer marginal spines of left leg 2 exopod segment 3 (posterior). Pl. 16. As *Forma consimilis*. Female (from E China Sea): 3, habitus (dorsal); 4, forehead (lateral); 5, genital double-somite (ventral); 6, outer marginal spines of right leg 2 exopod segment 3 (posterior). Pl. 16, 7–10. Male (from E China Sea): 7, habitus (dorsal); 8, outer marginal spines of left leg 2 exopod segments 2 & 3 (posterior); 9, leg 5 (anterior); 10, left leg 5 exopod segment 2 (anterior).

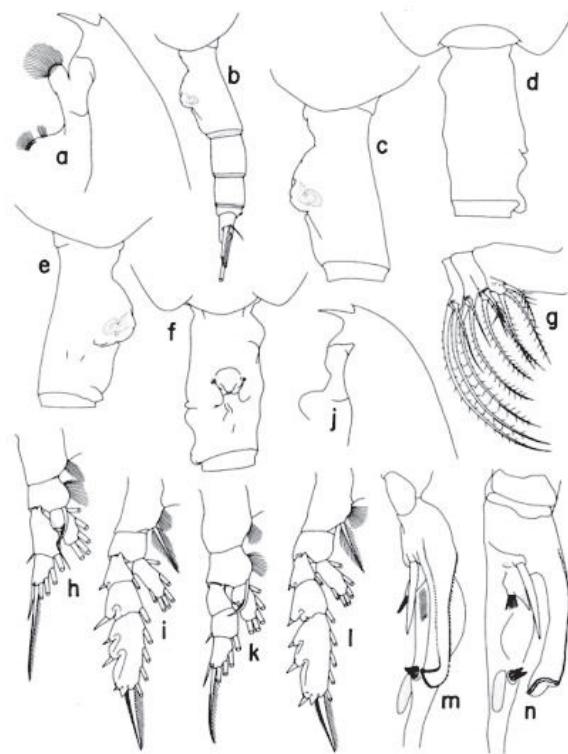
Euchaeta concinna Dana, 1849

Original. *Euchaeta concinna* Dana, 1849. *Euchaeta concinna* Dana, 1849, Female, 3.20 mm, East China Sea. a/b. habitus (dorsal/lateral); c. genital double-somite (left); d. maxillule precoxal arthrite (posterior); e. maxilla endopod (posterior); f. maxilliped basis (posterior). Male, 2.52 mm, East of Taiwan (23°55'N 122°25'E): a/b. habitus (dorsal/lateral); c. left leg 5, exopod segments 2 and 3 (medial). Scales: a, b = 0.5 mm; c = 0.2 mm.

Euchaeta indica Wolfenden, 1905 (Size: female, 2.21–3.00 mm; male: 2.21–2.92 mm)



Chen & Zhang



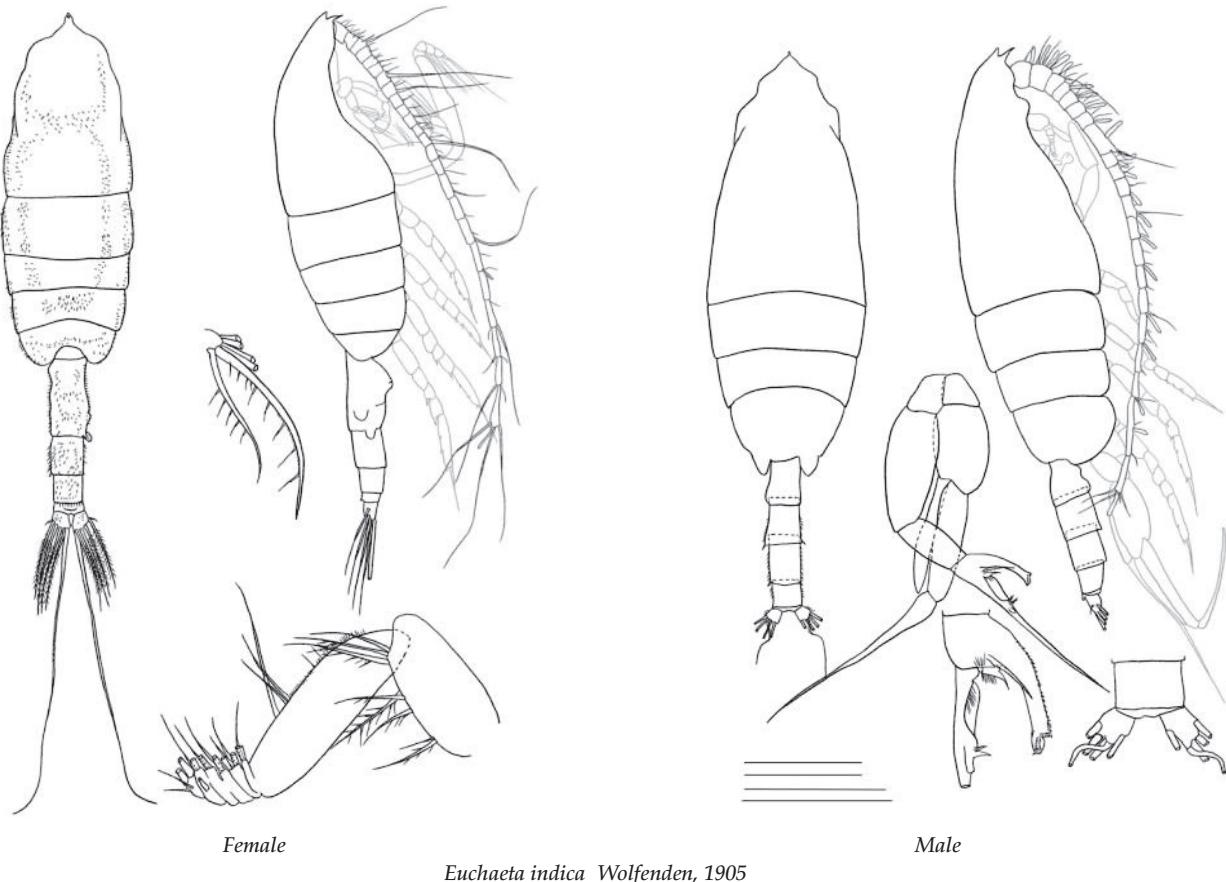
Park

Euchaeta indica Wolfenden, 1905

Chen & Zhang, 1965. Pl.16, figs 8–10. As *Euchaeta wolfendeni*. *Euchaeta indica* Wolfenden, 1905, Female (from East China Sea): 8, habitus (dorsal); 9, forehead (lateral); 10, outer marginal spines of left leg 2 2nd and 3rd exopodal segments (posterior).

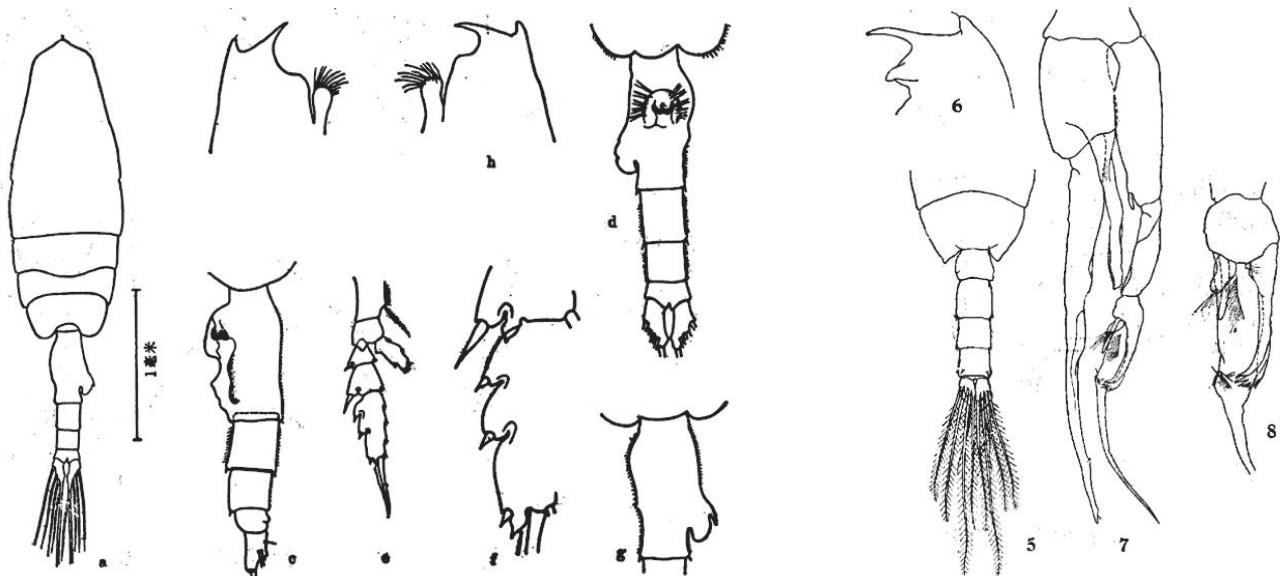
T. Park, 1995. Fig. 6. Female: a, forehead (left side); b, urosome (left side); c/d/e/f, genital somite (left/dorsal/right/ventral); g, maxilla (fifth lobe and endopod omitted, posterior); h, first leg (anterior); i, second leg (anterior). Male: j, forehead (left side); k, first leg (anterior); l, second leg (anterior); m/n, exopod of left 5th leg (anterior/medial).

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 12, 2021].

Euchaeta indica Wolfenden, 1905

Original. *Euchaeta indica* Wolfenden, 1905. Female, 2.52 mm, Taiwan Strait ($25^{\circ}29'N$ $121^{\circ}32'E$): a/b. habitus (dorsal/lateral); c. right maxilla endopod (posterior); d. right maxilliped (posterior). Male, 2.40 mm, East of Taiwan ($24^{\circ}18'N$, $121^{\circ}46'E$): a/b. habitus (dorsal/lateral); c. caudal rami (ventral); d. leg 5 (posterior); e. left leg 5, segment 2 and proximal part of segment 3, anterior. Scales: a, b = 0.5 mm; c = 0.25 mm; d = 0.5 mm; e = 0.25 mm

Euchaeta longicornis Giesbrecht, 1888 (Size: female, 2.54–3.32 mm; male, 2.52–2.88 mm)



Zheng et al., 1982

Euchaeta longicornis Giesbrecht, 1888

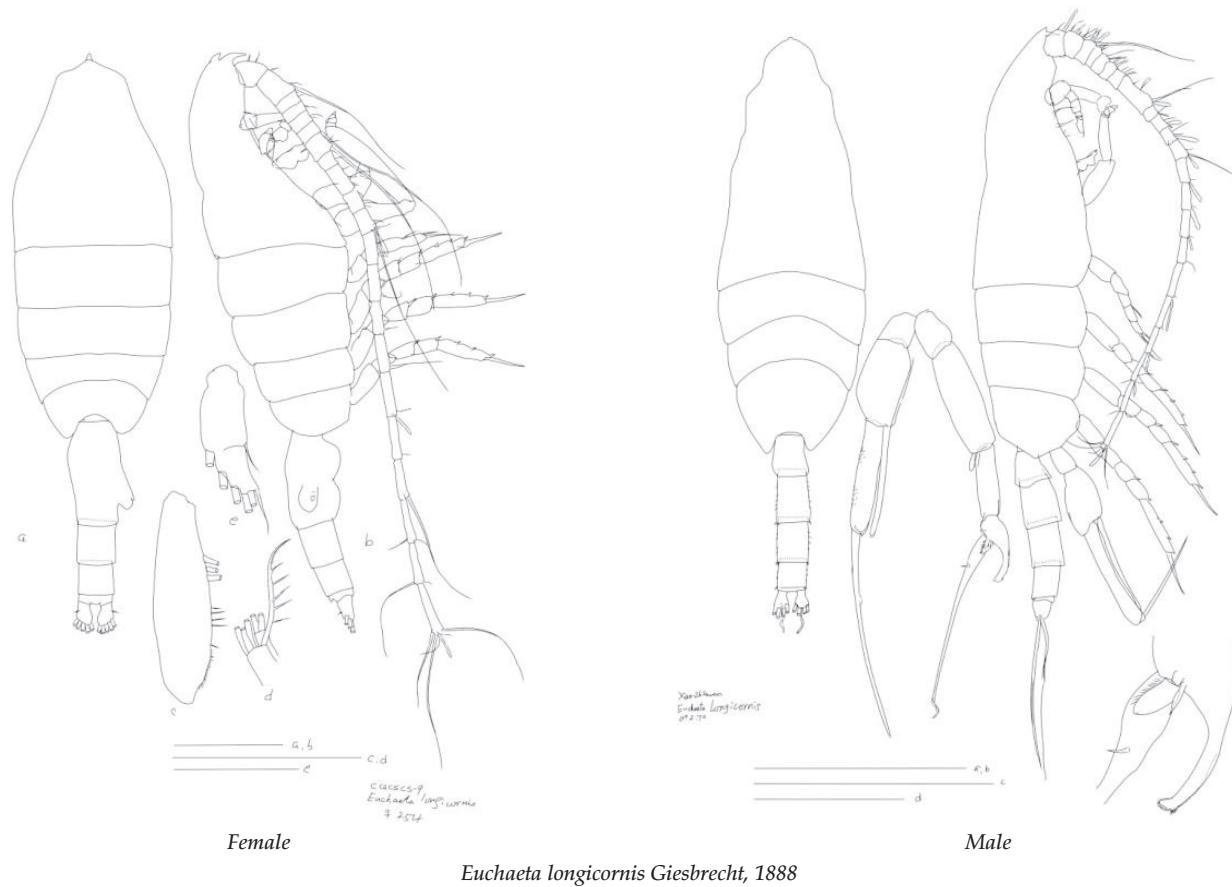
Chen & Shen, 1974

Zheng et al., 1982. Fig. 21. *Euchaeta longicornis* Giesbrecht, 1888, Female: a, habitus (dorsal); b, forehead (lateral); c/d, urosome (lateral/ventral); e, leg 2; f, portion of exopodal segments 2 and 3 of leg 2; g, urosome (dorsal, another specimen); h, forehead (lateral, another specimen). Scale bar in mm.

Chen & Shen, 1974. Figs.5-8. Male: 5, pediger 5 and urosome (dorsal); 6, forehead (lateral), 7, leg 5; 8, exopod of left leg 5 (medial).

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 12, 2021].

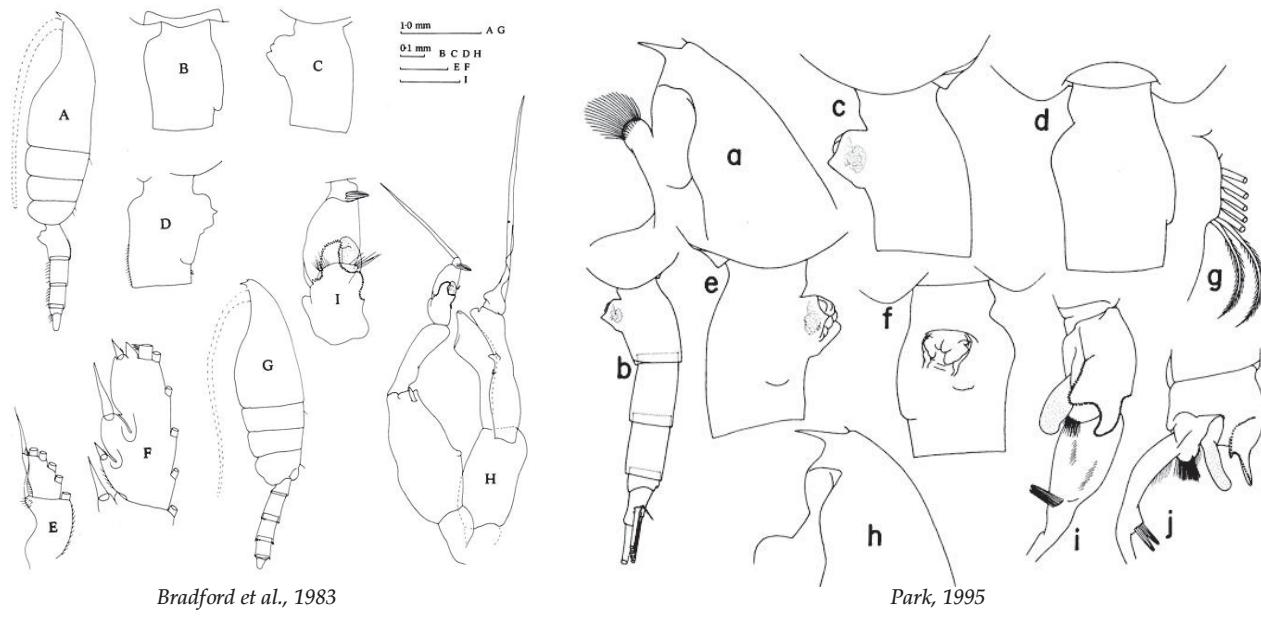
Euchaeta longicornis Giesbrecht, 1888



Euchaeta longicornis Giesbrecht, 1888

Original. *Euchaeta longicornis* Giesbrecht, 1888, Left: Female. 2.54 mm, South China Sea ($8^{\circ}33'N$, $115^{\circ}41'E$). a/b, habitus (dorsal/lateral); c. maxilla endopod; d. maxilliped basis; e. leg 1 exopod. Scales: a-d = 0.5 mm; e = 0.2 mm. Right: Male. 2.70 mm, Taiwan Strait ($24^{\circ}00'N$ $122^{\circ}07'E$). a/b. habitus (dorsal/lateral); c. leg 5 (anterior); d. part of left leg exopod (anterior). Scales: a/b = 1 mm; c = 0.5 mm; d = 2 mm.

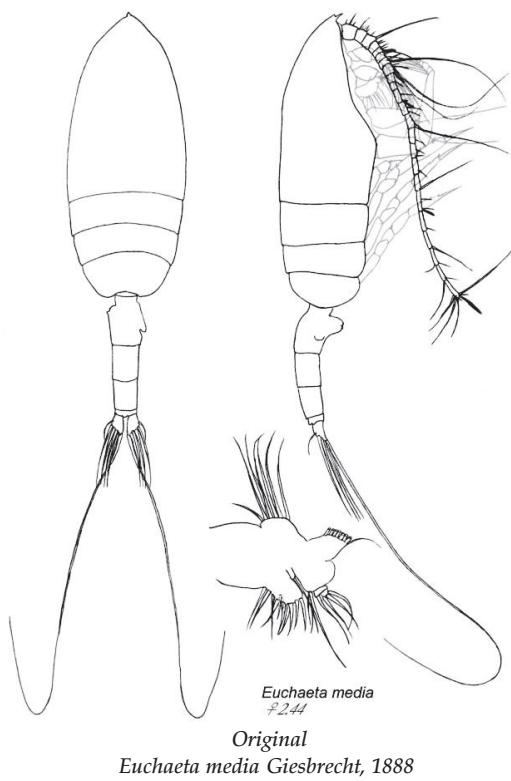
Euchaeta media Giesbrecht, 1888 (Size: female, 3.30–4.82 mm; male, 3.05–4.20 mm)



Euchaeta media Giesbrecht, 1888

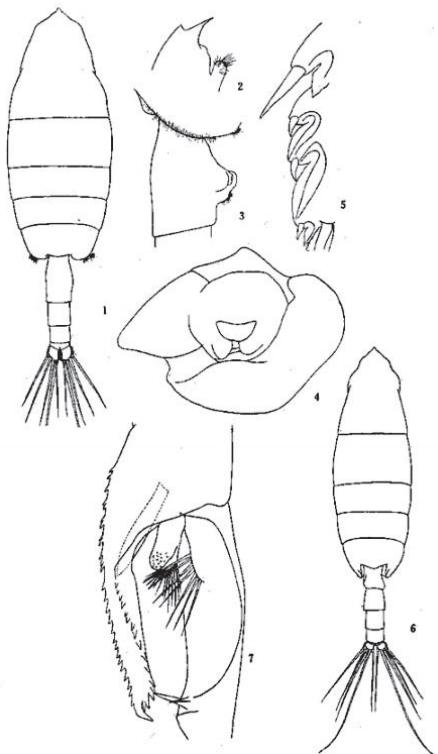
Bradford et al., 1983. Fig. 23. As *Paraeuchaeta media*. Female: A, habitus (lateral left side); B-D, genital segment (dorsal, left lateral, right lateral); E, exopod of leg 1; F, exopod segment 3 of leg 2. Male: G, habitus (lateral left); H, leg 5; I, terminal part of left leg 5 exopod.

Park, 1995. Fig. 13. Female: a, forehead (left); b, urosome (left); c, d, e, f, genital double-somite (left, dorsal, right, ventral); g, outer lobe of maxillule. Male: h, forehead (left); i/j, exopod of left leg 5 (anterior, medial).

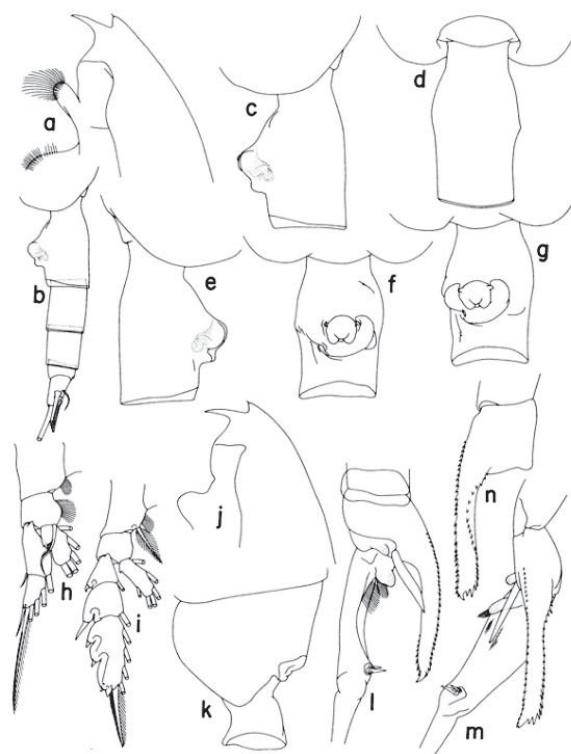
Euchaeta media Giesbrecht, 1888

Original. *Euchaeta media* Giesbecht, 1888, female, 2.44 mm, Taiwan Strait, habitus (dorsal/lateral), maxillule.

Euchaeta plana Mori, 1937 (F,M) (Size: female, 2.58–3.50 mm; male, 2.75–3.16 mm)



Chen & Zhang



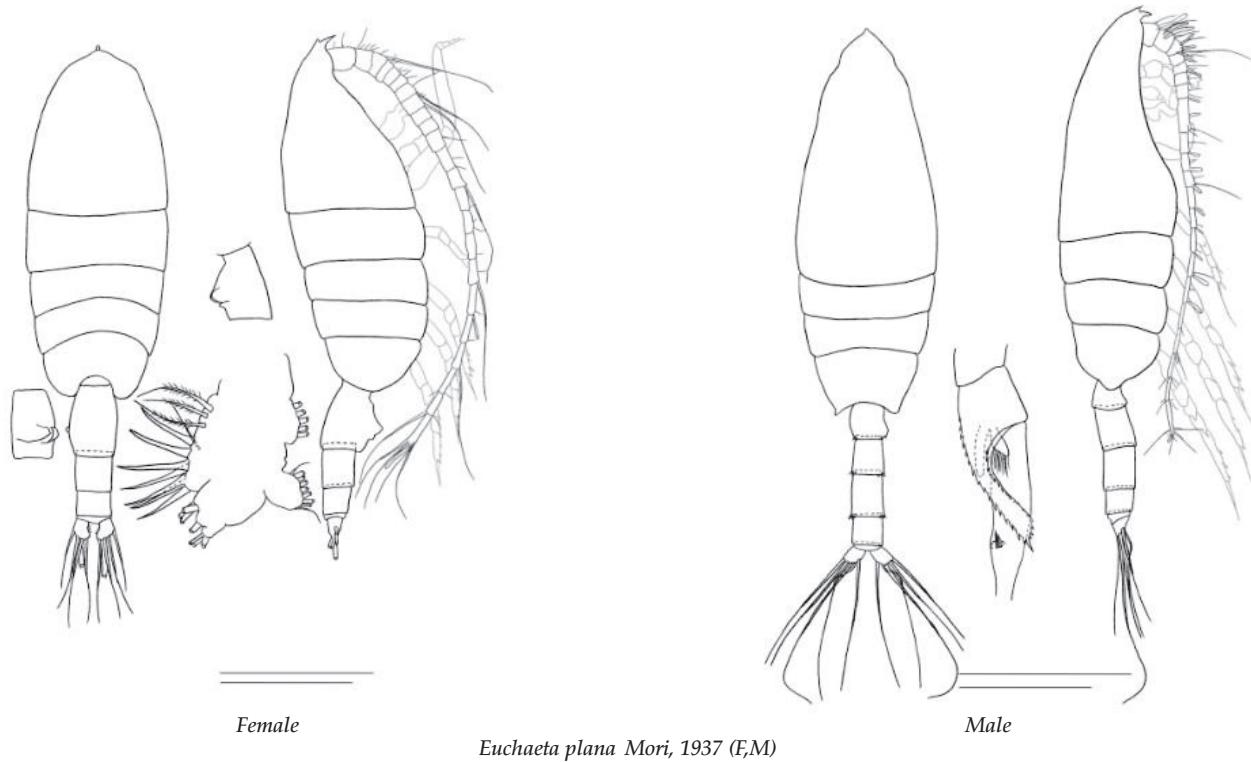
Park, 1995

Euchaeta plana Mori, 1937 (F,M)

Chen & Zhang, 1965. Pl.16, 1–7. *Euchaeta plana* Mori, 1937, Female (from E China Sea): 1, habitus (dorsal); 2, forehead (lateral); 3, genital double-somite (lateral right side); 4, shape of genital complex (ventral); 5, outer marginal spines of exopod segments 2 & 3 of left leg 2 (posterior). Male: 6, habitus (dorsal); 7, exopod segment 2 of left leg 5 (posterior).

Park, 1995. Fig. 11. Female: a, forehead (left); b, urosome (left); c, d, e, f, g, genital-somite (left, dorsal, right, ventral, ventral and tilted counterclockwise); h, leg 1 (anterior); i, leg 2 (anterior). Male: j, forehead (left); k, pediger 5 and genital double-somite (left); l/m, left leg 5 exopod (medial/anterior, tilted clockwise); n, serrated lamella of left leg 5 (lateral).

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 07, 2021].

Euchaeta plana Mori, 1937 (F,M)

Original. *Euchaeta plana* Mori, 1937, female. East of Taiwan: Heping (24°18'N, 121°46'E), 3.20 mm, habitus (dorsal/lateral); genital double-somite (lateral/venral); maxillule. Male, 3.02 mm, habitus (dorsal/lateral); left leg 5 exopod.

Euchaeta pubera Sars, 1907 (Size: female, 2.86–4.41 mm; male, 3.43–3.69 mm)

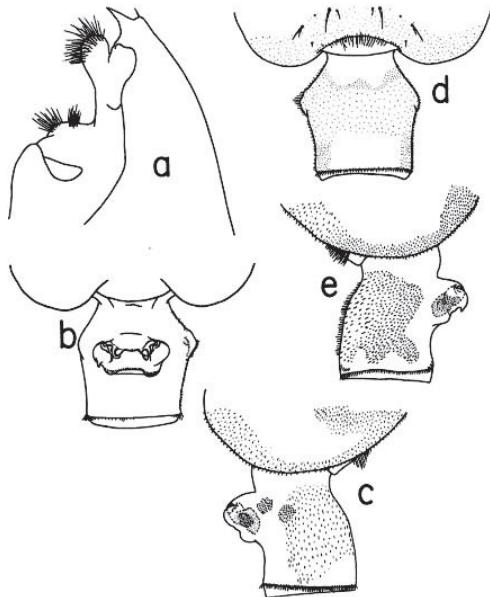


Fig. 4a-e

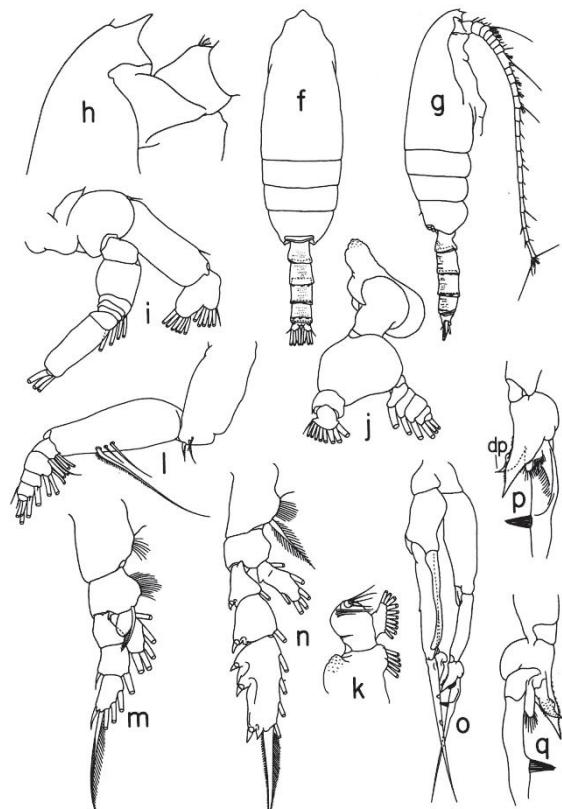


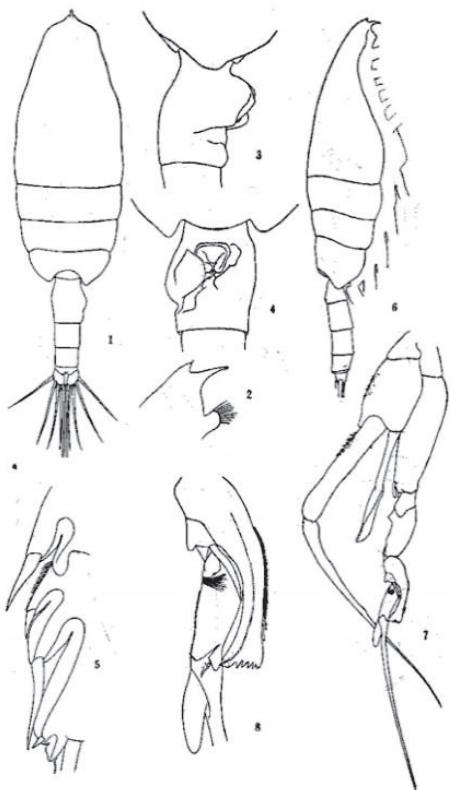
Fig. 4f-p

Euchaeta pubera Sars, 1907

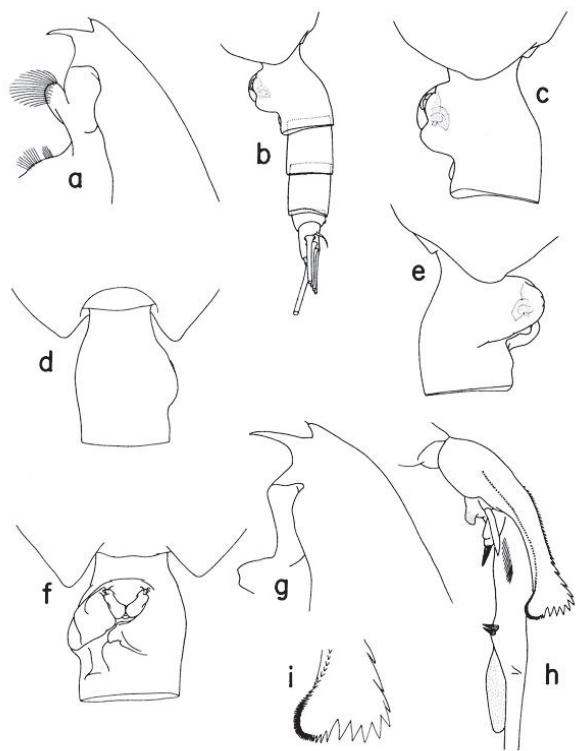
Park, 1975. Fig. 4, a-e. *Euchaeta pubera* Sars, 1907, Female (G. of Mexico): a, forehead (lateral); b/c/d/e, genital double-somite (ventral/left side/dorsal/right side). Fig. 4, f-p. Male (G. of Mexico): f/g, habitus (dorsal/lateral); h, forehead (lateral); i, antenna; j, mandible; k, maxillule; l, maxilliped; m, leg 1 (anterior); n, leg 2 (anterior); o, leg 5 (anterior); p/q, exopod of left leg 5 (anterior/medial).

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 07, 2021]

Euchaeta rimana Bradford, 1974 (Size: female, 2.80–4.30 mm; male, 2.80–4.10 mm)



Chen & Zhang, 1965



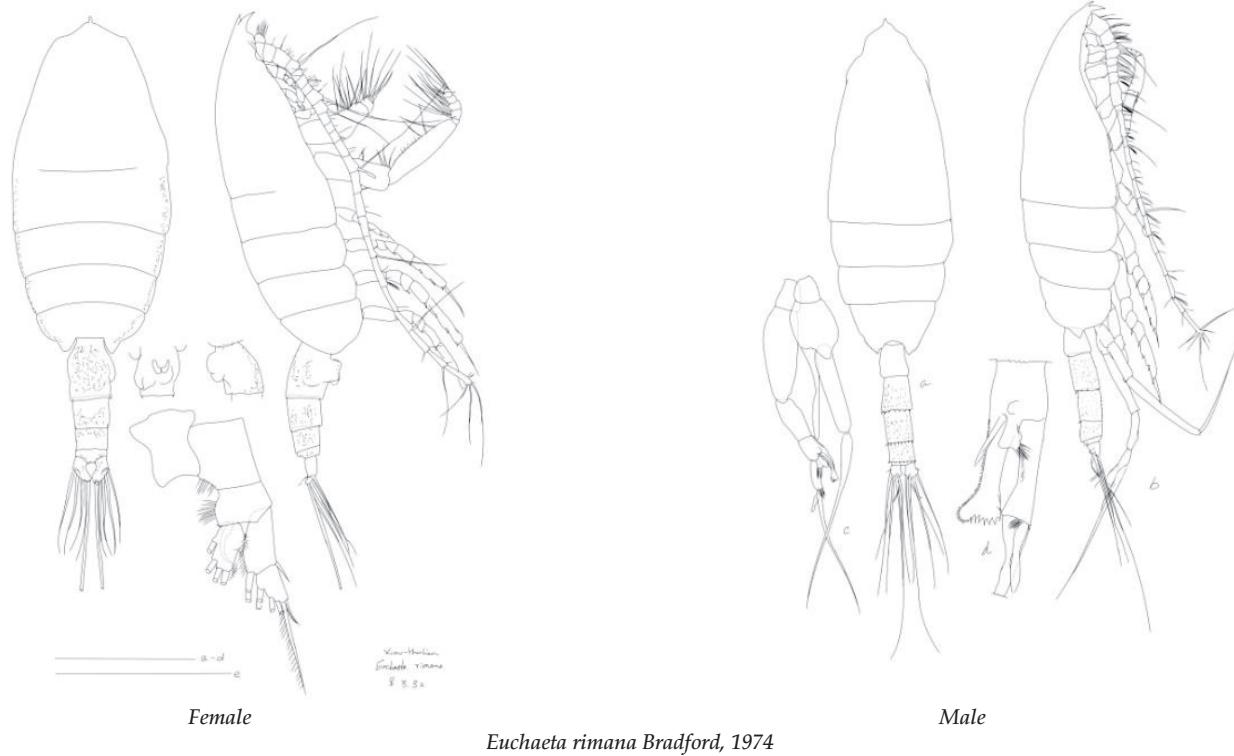
Park, 1995

Euchaeta rimana Bradford, 1974

Chen & Zhang, 1965. Pl.14, 1–8. As *Euchaeta marina*. Female (from E China Sea): 1, habitus (dorsal); 2, forehead (lateral); 3/4, genital double-somite (lateral/ventral); 5, outer marginal spines of left leg 2 exopod segment 3 (posterior). Male: habitus (dorsal); 7, leg 5 (anterior); 8, left leg 5 exopod segment 2 (anterior).

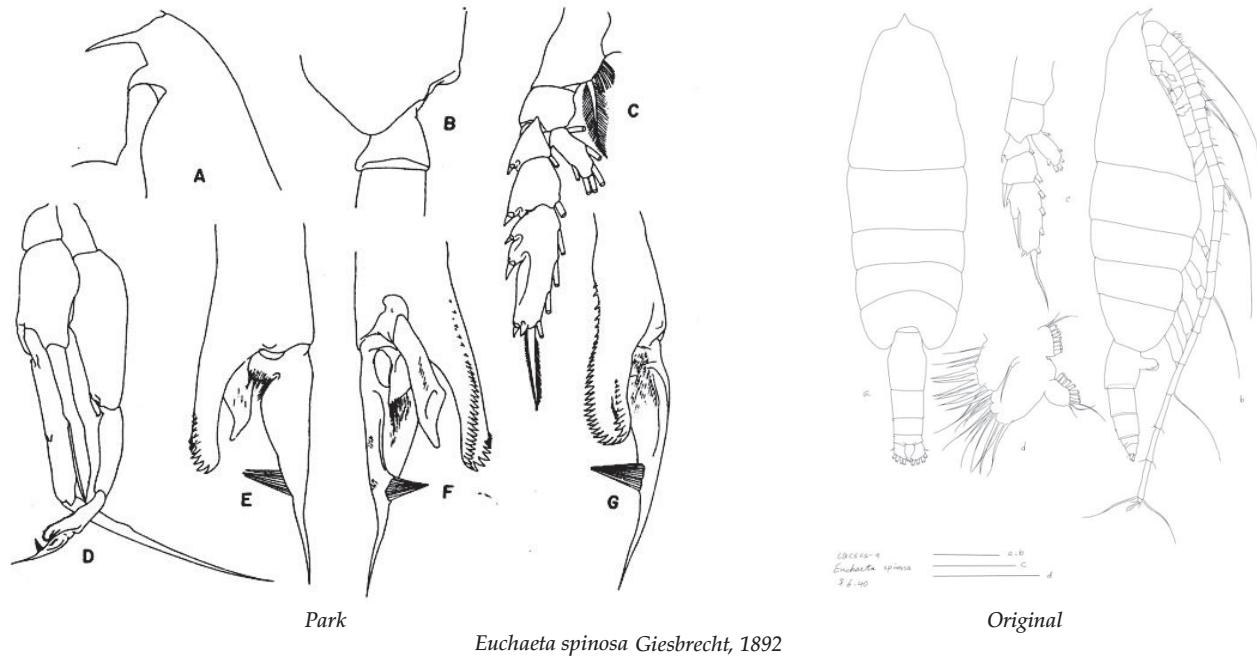
Park, 1995. Fig. 4. Female: a, forehead (left side); b, urosome (left side); c/d/e/f, genital double-somite (left lateral/dorsal/right lateral/ventral). Male: g, forehead (left side); h, left leg 5 exopod (anterior, tilted clockwise); i, distal end of serrated lamella (anterior).

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 07, 2021]

Euchaeta rimana Bradford, 1974*Euchaeta rimana* Bradford, 1974

Original. *Euchaeta rimana* Bradford, 1974, Female. East of Taiwan: Heping ($24^{\circ}18'N$, $121^{\circ}46'E$), 3.32 mm, habitus (dorsal/lateral); genital double somite (lateral/ventral); leg 1. Male, same locality, 3.18 mm, habitus (dorsal/lateral), leg 5.

Euchaeta spinosa Giesbrecht, 1892 (Size: female, 5.18–7.21 mm; male, 5.22–6.90 mm)

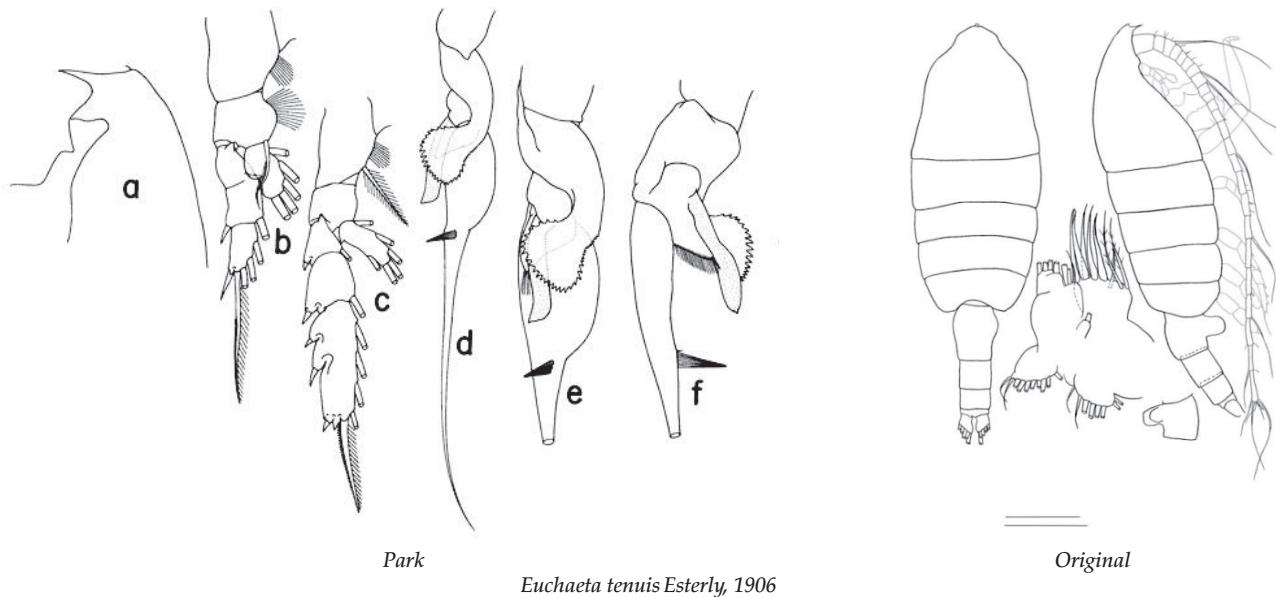


Park, 1978: Fig. 72. *Euchaeta spinosa* Giesbrecht, 1892, Male. A. forehead (lateral); B. pediger 5 & genital double-somite (lateral); C. leg 2; d. leg 5 (anterior); E/F/G. distal part of left leg 5 exopod (lateral/medial/posterior).

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 07, 2021].

Original. Female, 6.40 mm, South China Sea (8°33'N, 115°41'E, 1000 m): a/b. habitus (dorsal/lateral); c. left leg 2; d. right maxillule (posterior). Scales: a,b = 1.0 mm; c = 1.0 mm; d: 0.5 mm.

Euchaeta tenuis Esterly, 1906 (Size: female, 4.70–6.80 mm; male, 4.68–5.63 mm)



Park, 1995: Fig. 16. *Euchaeta tenuis* Esterly, 1906, Male. a. Forehead (lateral); b. leg 1; c. leg 2; d. left leg 5 exopod (anterior); e/f. left leg 5 exopod (tilted clockwise/medial).

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].

Original. *Euchaeta tenuis* Esterly, 1906. Female, 5.32 mm, South China Sea (8°33'N 115°41'E): a/b. habitus (dorsal/lateral); c. genital double-somite (lateral); d. maxillule, (posterior). Scales: a-c = 0.5 mm; d = 0.2 mm.