



Key to the species of Aetideidae Pseudochirella occurring in the China Seas

Chang-tai Shih
National Taiwan Ocean University, ctshih@mail.ntou.edu.tw

Qing-Chao Chen
South China Sea Institute of Oceanology

Yang-Chi Lan
Fisheries Research Institute

Shih-Hui Hsiao
National Taipei University of Education

Chi-Yu Weng
Institute of Oceanography, National Taiwan University/Ocean Data Bank of the Ministry of National Science and Technology Council, Taiwan

Follow this and additional works at: <https://jmstt.ntou.edu.tw/journal>



Part of the [Fresh Water Studies Commons](#), [Marine Biology Commons](#), [Ocean Engineering Commons](#), [Oceanography Commons](#), and the [Other Oceanography and Atmospheric Sciences and Meteorology Commons](#)

Recommended Citation

Shih, Chang-tai; Chen, Qing-Chao; Lan, Yang-Chi; Hsiao, Shih-Hui; and Weng, Chi-Yu (2022) "Key to the species of Aetideidae Pseudochirella occurring in the China Seas," *Journal of Marine Science and Technology*. Vol. 30: Iss. 5, Article 14.

DOI: 10.51400/2709-6998.2605

Available at: <https://jmstt.ntou.edu.tw/journal/vol30/iss5/14>

This Review-Taxonomic Index is brought to you for free and open access by Journal of Marine Science and Technology. It has been accepted for inclusion in Journal of Marine Science and Technology by an authorized editor of Journal of Marine Science and Technology.

REVIEW-TAXONOMIC INDEX

Key to the Species of Aetideidae *Pseudochirella* Occurring in the China Seas

Chang-tai Shih ^{a,*}, Qing-Chao Chen ^b, Yang-Chi Lan ^c, Shih-Hui Hsiao ^d, Chi-Yu Weng ^e

^a National Taiwan Ocean University, Taiwan

^b South China Sea Institute of Oceanology, China

^c Fisheries Research Institute, Taiwan

^d National Taipei University of Education, Taiwan

^e Institute of Oceanography, National Taiwan University/Ocean Data Bank of the Ministry of National Science and Technology Council, Taiwan

Pseudochirella dubia(4a/7a/f), *gibbera*(2a/f), *notacantha*(6b/9b/f), *obessa*(8a/f), *obtusa*(6a/9a/f), *scopularis*(3a/f)

1a	Female	2
1b	Male	7
2a/1a	Genital double-somite strongly asymmetrical, from dorsal view, left margin forming a triangular process; right margin strongly protruded and forming a rounded process.....	<i>Pseudochirella gibbera</i>
2b	Genital double-somite more or less symmetrical	3
3a/2b	Posterolateral corners of prosome forming a narrow and pointed process.....	<i>Pseudochirella scopularis</i>
3b	Posterolateral corners of prosome rounded without process.....	4
4a/3b	Genital double-somite, in lateral view, depth of ventral protrusion equal to depth of urosomites	<i>Pseudochirella dubia</i>
4b	Ventral protrusion of genital double-somite nearly absent.....	5
5a/4b	Exterior appearance without any hairy structure	<i>Pseudochirella obessa</i>
5b	Tufts of hairs on urosome.....	6
6a/5b	Genital double-somite from dorsal view smooth and convexed on right side; wavy and with small protrusions on left side	<i>Pseudochirella obtusa</i>
6b	Genital double-somite from dorsal view smooth and convexed on both margins.....	<i>Pseudochirella notacantha</i>
7a/1b	In leg 5, basis of right leg no more than 1.2 times of the basis of left leg, and its ventral margin slightly reaching over the ventral margin of left leg basis	<i>Pseudochirella dubia</i>
7b	In leg 5, basis of right leg more than 1.2 times of basis of left leg, and its ventral margin exceeding almost another length of left leg basis.....	8
8a/7b	On each posterolateral corner of prosome without a small spiny process.....	<i>Pseudochirella obessa</i>
8b	A small spine presents on each posterior corner of prosome	9
9a/8b	Caudal rami closed. Basis of right leg 5 columnal	<i>Pseudochirella obtusa</i>
9b	Caudal rami diverged. Basis of right leg 5 oval.....	<i>Pseudochirella notacantha</i>

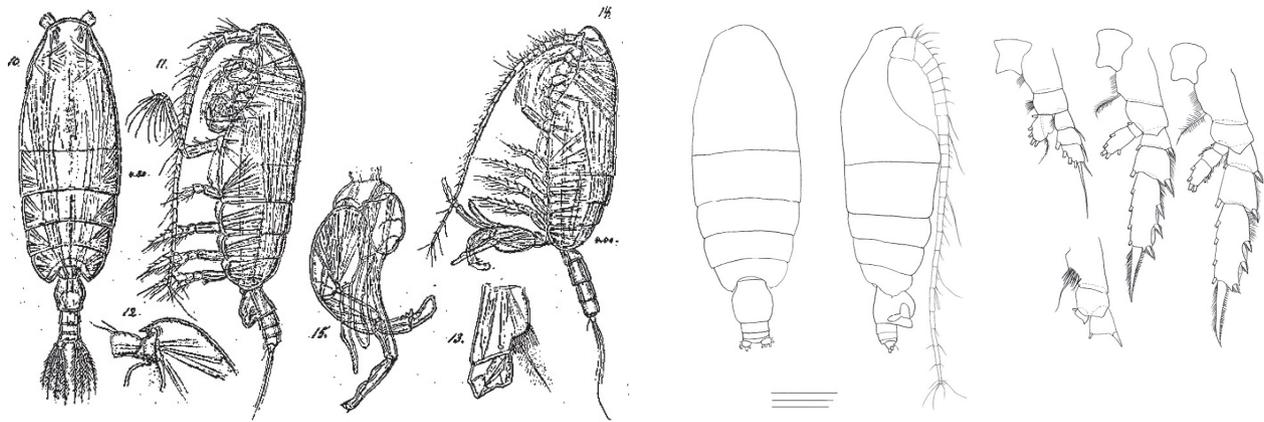
Available online 14 November 2022

* Corresponding author.

E-mail address: ctshih@mail.ntou.edu.tw (C.-t. Shih).



Pseudochirella dubia (G.O. Sars, 1905) (Size: female, 4.80–6.10 mm; male, 4.00 mm)



Sars

Pseudochirella dubia (G.O. Sars, 1905)

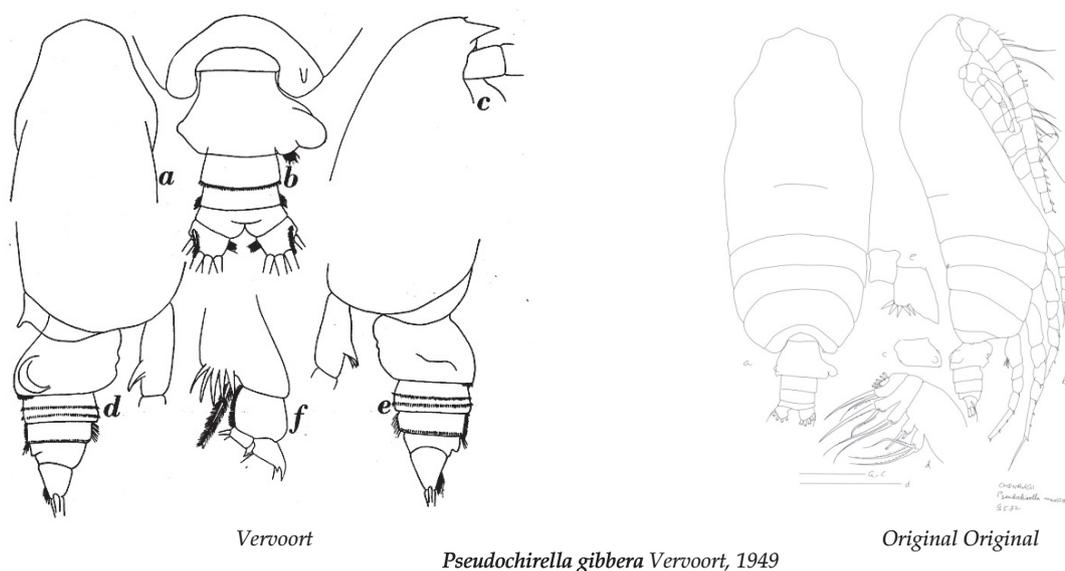
Original

Sars, 1924: pl. 26. Female. 10/11. Habitus (dorsal/lateral); 12. Forehead (lateral); 13. Leg 4, coxa & basis. Male. 14. Habitus (lateral); 15. 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 13 2021].

Original. Female, 5.08 mm, South China Sea (8°40'N, 116°22'E, 1500 m): a/b. habitus (dorsal/lateral); c-f. Legs 1–4.

Pseudochirella gibbera Vervoort, 1949 (Size: female, 5.50–6.17 mm; male, unknown)



Vervoort, 1949: fig. 19. *Pseudochirella gibbera* Vervoort, 1949, Female. a/c. head (dorsal/lateral); b/d/e. Posterior prosome & urosome (dorsal/right lateral/left lateral); f. Leg 4, coxa & basis.

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 16 2021].

Original. *Pseudochirella gibbera* Vervoort, 1949, Female, 5.72 mm, South China Sea: a/b. habitus (dorsal/lateral); c. Genital double somite, left lateral; d. Maxilla; e. Coxa of leg 4, posterior.

Pseudochirella notacantha (G.O. Sars, 1905) (Size: female, 5.10–6.80 mm; male, 4.90–5.80 mm)

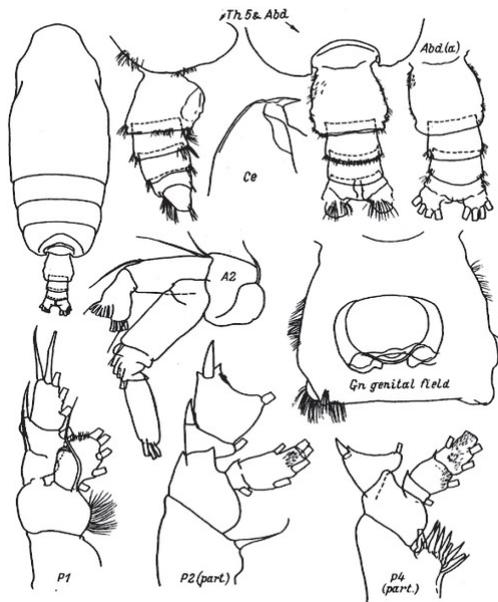


Fig. 221

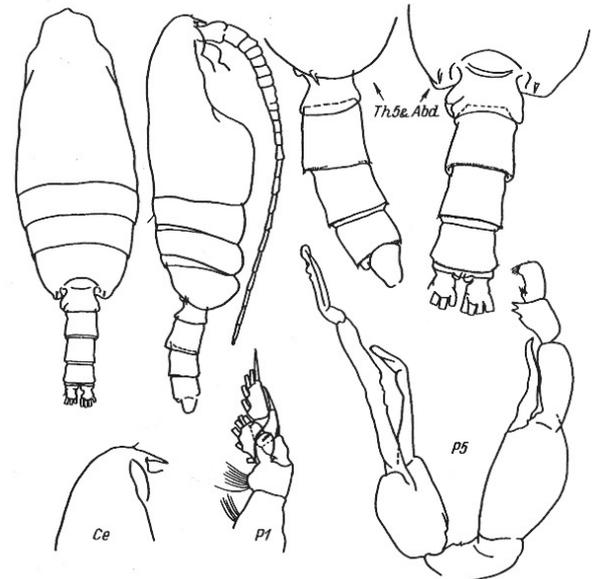


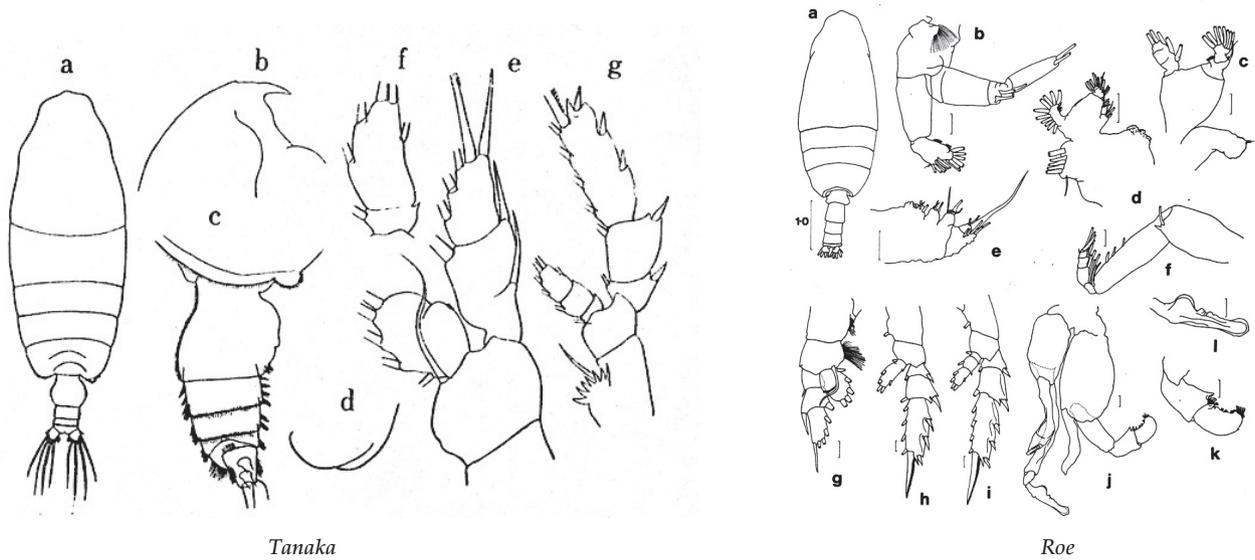
Fig. 222

Pseudochirella notacantha (G.O. Sars, 1905)

Markhaseva, 1996: fig. 221. *Pseudochirella notacantha* (G.O. Sars, 1905), Female. habitus (dorsal); Ce. Forehead (lateral); Th5&abd. Pediger 5 & urosome (dorsal/lateral); Abd. urosome (dorsal); Gn genital field. Genital double-somite; A2. Antenna; P1. Leg 1; P2 (part). Leg 2, missing exopod segment 3; P4 (part.). Leg 4, missing exopod segments 2 & 3. Fig. 222. Male, habitus (dorsal/lateral); Ce. Forehead (lateral); Th5 & abd. Pediger 5 & urosome (lateral/dorsal); P1. Leg 1; P5. 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 13 2021].

Pseudochirella obessa G.O. Sars, 1920 (Size: female, 5.00–6.20 mm; male, 5.76 mm)



Tanaka

Pseudochirella obessa G.O. Sars, 1920

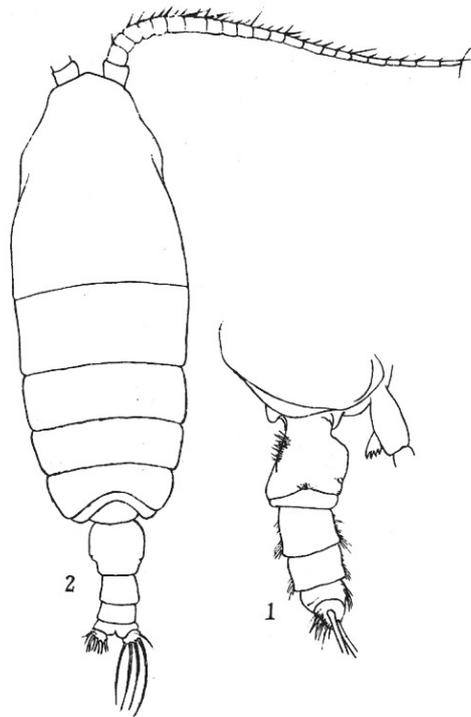
Roe

Tanaka, 1957: fig. 56. *Pseudochirella obessa* G.O. Sars, 1920, Female. a. habitus (dorsal); b. Forehead (lateral); c. Pediger 5 & urosome (lateral); d. Pediger 5 (lateral); e. Leg 1; f. Leg 2, endopod; g. Leg 4.

Roe, 1975: fig. 7. *Pseudochirella obessa* G.O. Sars, 1920, Male. a. habitus (dorsal); b. Antenna; c. Mandible; d. Maxillule; e. Maxilla; f. Maxilliped; g. Leg 1; h. Leg 2; i. Leg 4; j. Leg 5; k. Left leg 5, exopod segment 3.

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 13 2021].

Pseudochirella obtusa Sars, G.O. 1905 (Size: female, 4.70–7.00 mm; male, 4.83–5.50 mm)



Farran



Tanaka & Omori

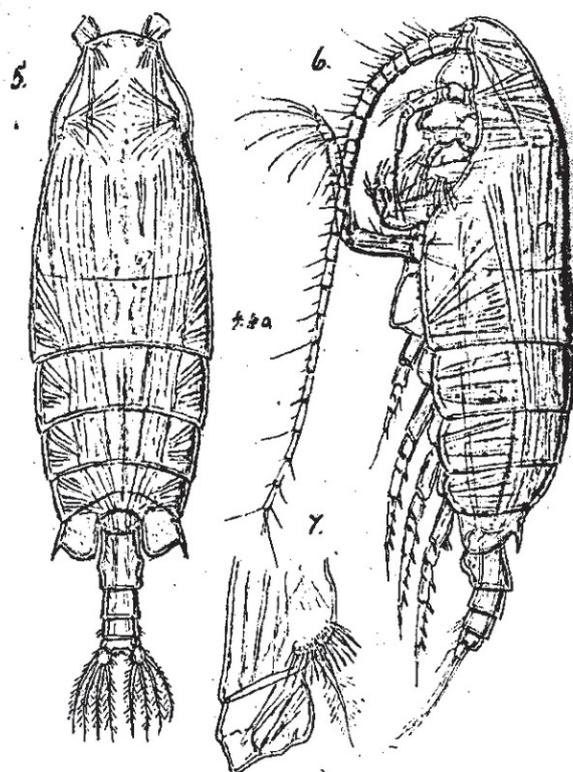
Pseudochirella obtusa Sars, G.O. 1905

Farran, 1906 [1908]. As *Euchirella obtusa*. Pl. IV, Figs. 1–2. Female: 1, last thoracic segment and urosome (lateral); 2, habitus (dorsal).

Tanaka & Omori, 1969. Fig. 4. As *Pseudochirella spinifera*. Male (from Izu Region, Japan): a, forehead (lateral); b. Pediger 5&urosome (lateral); c, mandible; d. Maxillule; e. Maxilla; f. Maxilliped; g, leg 1; h, leg 2; i, leg 5; j, 2nd and 3rd segments of exopod of left 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 13 2021].

Pseudochirella scopularis Sars, G.O., 1905 (Size: female, 5.00–6.00 mm; male, unknown)



Pseudochirella scopularis Sars, G.O., 1905

Sars, 1924. Pl.XXV, figs.4-7. Female (from near Azores Is. and off Bay of Biscay): 4: antennule; 5/6, habitus (dorsal/lateral); 7, leg 4, basipodal segment of leg 4.

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 13 2021].