



Key to the species of Heterorhabdidae Heterostylites occurring in the China Seas

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REVIEW-TAXONOMIC INDEX

Key to the Species of Heterorhabidae *Heterostylites* Occurring in the China Seas

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Heterostylites longicornis (2a/5a/f), *longioperculis* (3a/6a/f), *major* (4a/7a/f), *submajor* (4b/7b/f)

1a	Females.....	2
1b	Males.....	5
2a/1a	Ventrally, genital operculum much wider than 1/2 width of genital double-somite	<i>Heterostylites longicornis</i>
2b	Ventrally, genital operculum about as wide as 1/2 width of genital double-somite	3
3a/2b	Laterally, ventral margin of genital double-somite not extending beyond posterior end of genital operculum. Maxilliped: basis without spinules on distal part of inner margin.....	<i>Heterostylites longioperculis</i>
3b	Laterally, ventral margin of genital double-somite extending beyond posterior end of genital operculum. Maxilliped: basis with or without spinules on distal part of inner margin	4
4a	Laterally, urosomite 2 with swollen ventral margin. Setae of mouthparts conspicuously plumose	<i>Heterostylites major</i>
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5a/1b	Right leg 5: inner distal lobe of basis long, reaching beyond midlength of endopod segment 1; left leg 5: inner distal lobe of basis relatively short, rounded, about one-half as long as basis.....	<i>Heterostylites longicornis</i>
5b	Right leg 5: inner distal lobe of basis relatively short; left leg 5: inner distal lobe of basis low and wide	6
6a/5b	In right leg 5 exopod segment 2, medial projection with a short serrated process. Maxilliped: no spinules on distal part of inner margin	<i>Heterostylites longioperculis</i>
6b	In right leg 5 exopod segment 2, medial projection with a long serrated process	7
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7b	Setae of mouthparts not highly plumose	<i>Heterostylites submajor</i>

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Heterostylites longicornis (Giesbrecht, 1889) (Size: female, 2.30–4.30 mm; male, 2.56–4.30 mm)

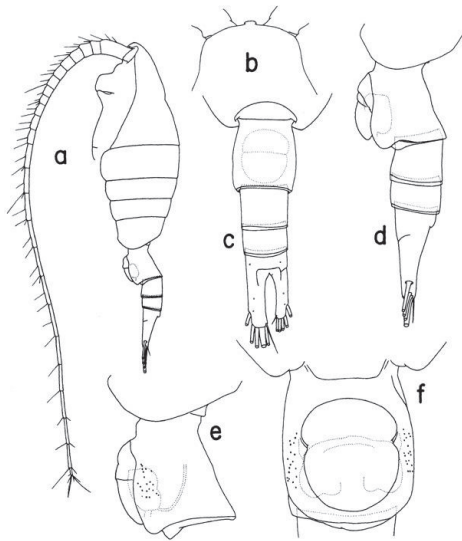


Fig. 24

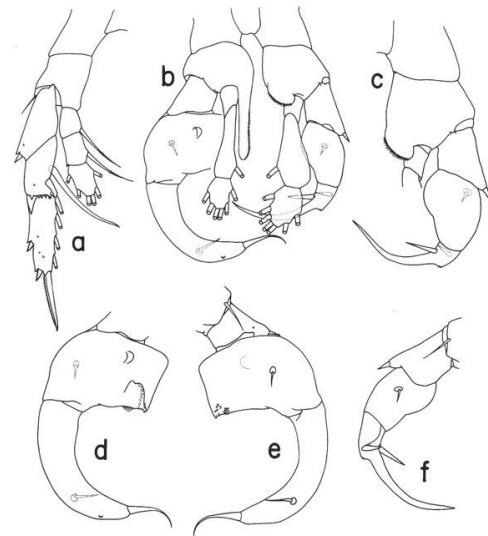


Fig. 25

Heterostylites longicornis (Giesbrecht, 1889)

Park, 2000: Fig. 24. *Haeterostylites longicornis* (Giesbrecht, 1889), Female. a. habitus (lateral); b. forehead (dorsal); c/d. urosome (dorsal/lateral); e/f. genital double somite (lateral/ventral). Fig. 25. Female. a. leg 5 (anterior). Male. b. leg 5 (anterior); c. left leg 5 (anterior, distal endopod segments omitted); d/e (right leg 5 exopod (anterior/posterior); f. left leg 5 exopod (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].

Heterostylites longioperculus Park, 2000 (Size: female, 2.76–3.56 mm; male, 2.92–3.44 mm)

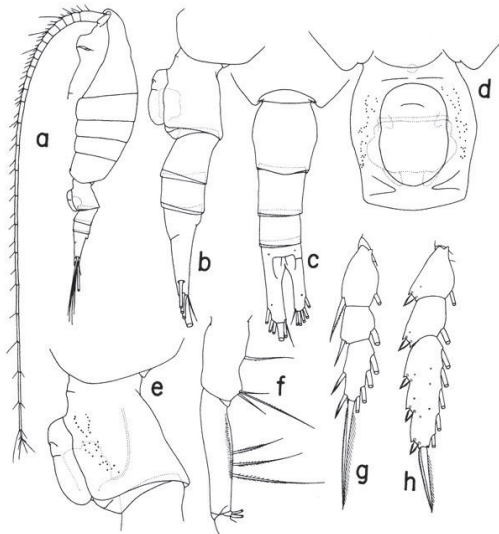


Fig. 26

Heterostylites longioperculus Park, 2000

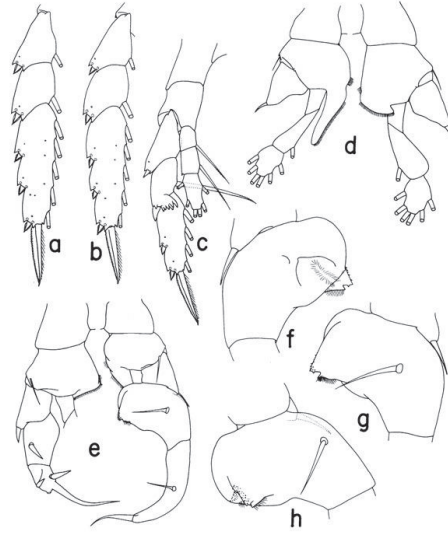


Fig. 27

Park, 2000: Fig. 26. *Heterostylites longioperculus* Park, 2000, Female. a. habitus (lateral); b/c. urosome (lateral/dorsal); d/e. genital double-somite (ventral/lateral); f. right maxiliped basis (anterior); g. leg 1 exopod (anterior); h. leg 2 exopod (anterior). Fig. 27. Female. a. leg 3 exopod (anterior); b. leg 4 exopod (anterior); c. leg 5 (anterior), Male. d. leg 5 (anterior, distal exopod segments omitted); e. leg 5 (posterior, endopods omitted); f. right leg 5 exopod segment 2 (anterior); g/h. right leg 5 exopod segment 2 (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 05, 2021].

Heterostylites major (F. Dahl, 1894) (Size: female, 4.00–5.75 mm; male, 3.75–5.50 mm)

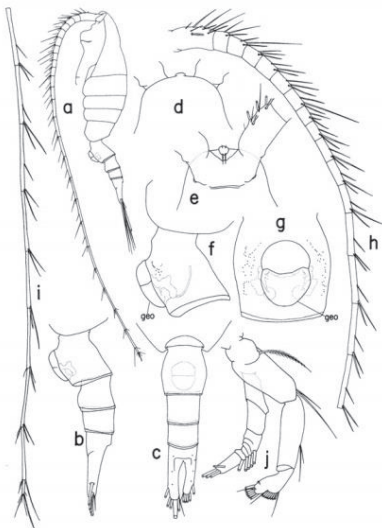


Fig. 18

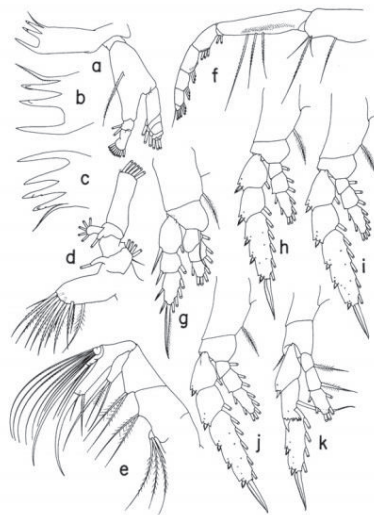


Fig. 19
Heterostylites major (F. Dahl, 1894)

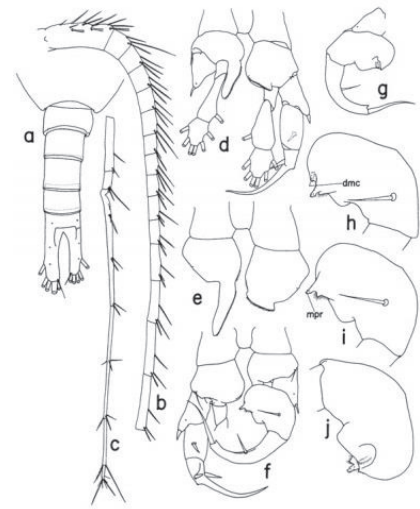
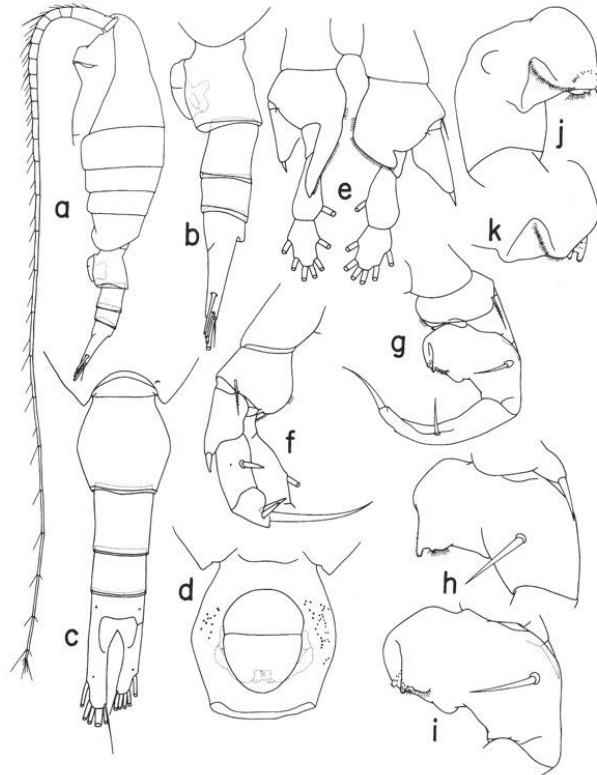


Fig. 20

Park, 2000. Fig.18. *Heterostylites major* (F. Dahl, 1894), Female: a, habitus (left side); b, c, urosome (left, dorsal, respectively); d/e, forehead (dorsal/ventral); f/g, genital somite (lateral/ventral); h/i, left antennule (ventral, seg. 1–16/17–25); j, left antenna (posterior). Fig. 19. Female. a. left mandible (posterior); b/c. mastigatory edge of left/right mandible; d. left maxillule (posterior); e. left maxilla (posterior); f. right maxilliped (anterior); g/h/i/j/k. leg 1/2/3/4/5 (anterior). Fig. 20. Male. a. urosome (dorsal); b/c segments 1–16/17–25 of left antennule; d. leg 5 (anterior, distal segments of right exopod omitted); e. leg 5 basis (anterior); f. leg 5 (posterior, endopods omitted); g. right leg 5 exopod (anterior); h/i/j. right leg 5 exopod segment 2 (posterior/tilted/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 05, 2021].

Heterostylites submajor Park, 2000 (Size: female, 4.75–5.50 mm; male, 4.56–8.08 mm)



Heterostylites submajor Park, 2000

Park, 2000: Fig. 21. *Heterostylites submajor* Park, 2000, Female. a. habitus (lateral); b/c. urosome (lateral/dorsal); d. genital double-somite (ventral). Male. e. leg 5 (anterior, distal exopod segments omitted); f. left leg 5 (posterior); g. right leg 5 (posterior, endopod omitted); h/i/j/k. right leg 5 exopod segment 2 (posterior, tilted clockwise).

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 05, 2021].