



## Key to the species of Eucalanidae Eucalanus occurring in the China Seas

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## REVIEW-TAXONOMIC INDEX

# Key to the Species of Eucalanidae *Eucalanus* Occurring in the China Seas

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*Eucalanus bungii*(3a/6a/f), *californicus*(2a/5a/f), *elongatus*(4b/7b/f), *hyalinus*(4a/7a/f)

1a	Female	2
1b	Male	5
2a/1a	Front of head forming an angle of less than 60°. Mandible: basis with 1 inner seta	<i>Eucalanus californicus</i>
2b	Front of head forming an angle of 60° or wider. Mandible: basis with 3 inner setae	3
3a/2b	Front of head forming an angle of 60°. Posterolateral corner of prosome rounded	<i>Eucalanus bungii</i>
3b	Front of head forming an angle wider than 60°. Posterolateral corner of prosome pointed	4
4a/3b	Posterolateral corner of prosome forming triangular wing-like process. Caudal rami asymmetrical, left caudal ramus longer than right caudal ramus. Leg 1: inner margin of endopod segment 1 with tufts of setules	<i>Eucalanus hyalinus</i>
4b	Posterolateral corner of prosoma forming a small pointed process. Caudal rami symmetrical. Leg 1: inner margin of endopod segment 1 without setules	<i>Eucalanus elongatus</i>
5a/1b	Left and right leg 5 segment 1 subequal in length	<i>Eucalanus californicus</i>
5b	Left leg 5 segment 1 reaching mid length of right leg 5 segment 2	6
6a/5b	Left leg 5: segment 1 about 1.5 times as long as segment 2; segment 4 less than 1.5 times as long as terminal spine	<i>Eucalanus bungii</i>
6b	Left leg 5: segments 1 and 2 subequal in length; segment 4 about 2 times as long as terminal spine	7
7a/6b	Left leg 5 4-segmented	<i>Eucalanus hyalinus</i>
7b	Left leg 5 3-segmented	<i>Eucalanus elongatus</i>

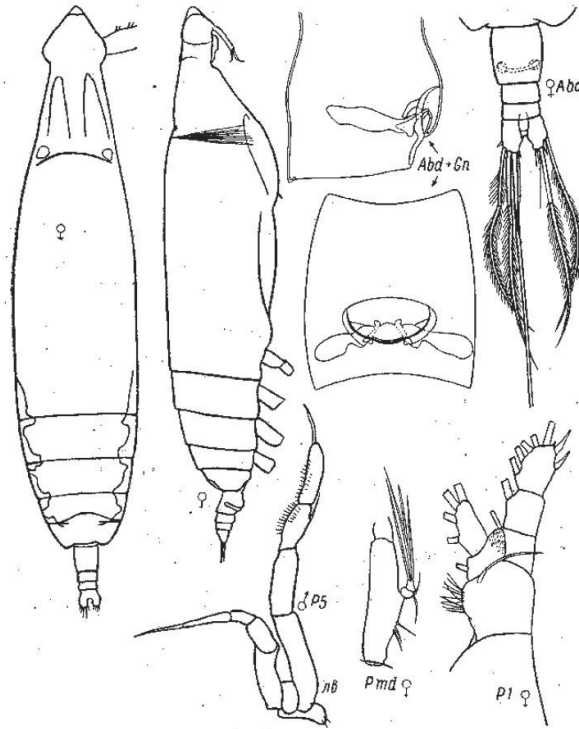
Available online 14 November 2022

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*Eucalanus bungii* Giesbrecht, 1893 (Size: female, 5.51–8.00 mm; male, 4.80–6.20 mm)

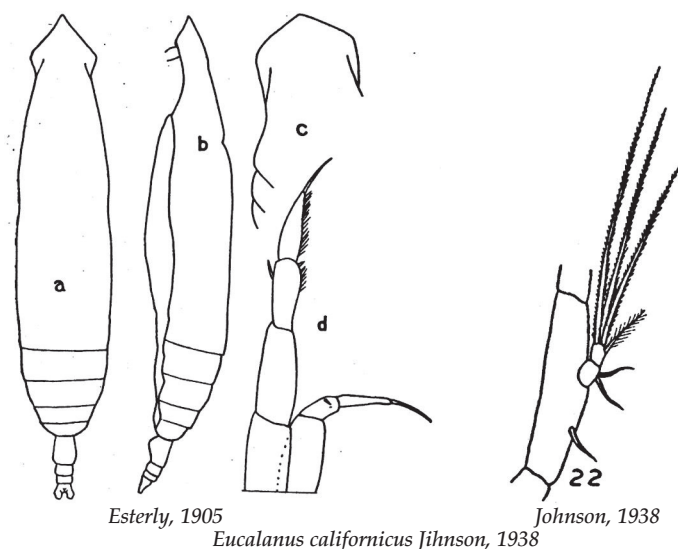


*Eucalanus bungii* Giesbrecht, 1893

Brodsky et al. 1983: fig. 94. Female, habitus (dorsal/lateral); Abd + Gn, genital double-somite (lateral/ventral); Abd, urosome (dorsal); Pmd♀, mandible; P1♀, leg 1. Male. 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 06, 2021].

*Eucalanus californicus* Johnson, 1938 (Size: female, 4.40–7.50 mm; male, 4.00–5.00 mm)

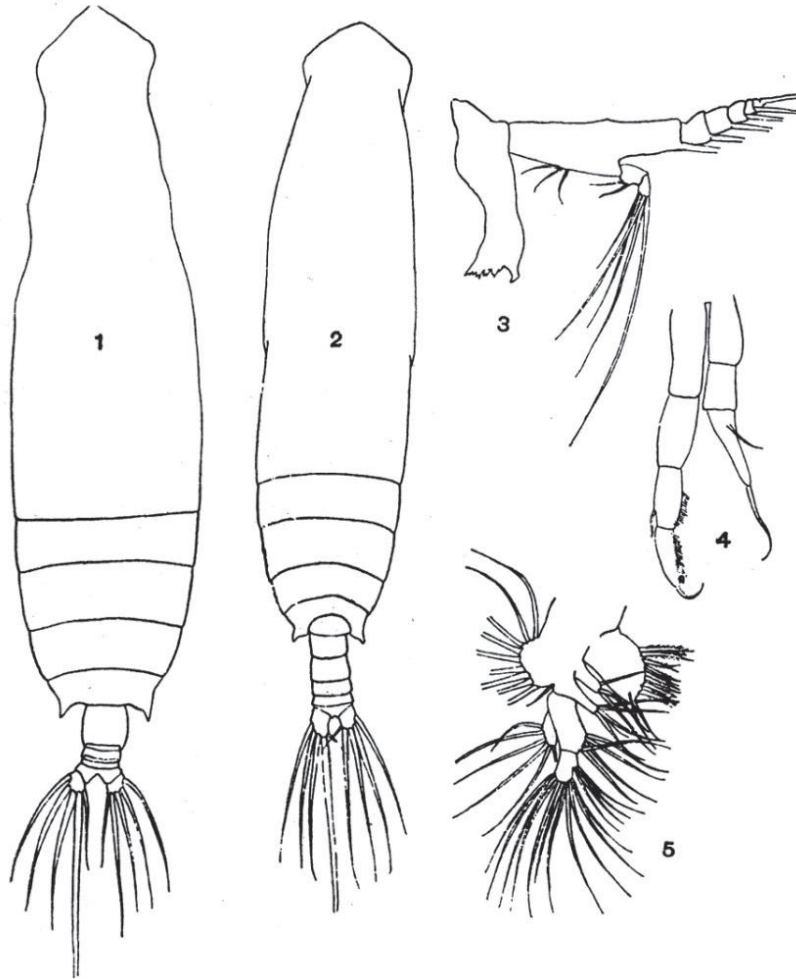


Esterly, 1905: fig. 6. Female. a/b. habitus (dorsal.lateral). Male. c. forehead (dorsal); d. leg 5 (posterior).  
Johnson, 1938: fig. 22. Male. 22. mandibular palp.

Johnson, 1938: fig.22. mandible.

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 06, 2021].

*Eucalanus elongatus* (Dana, 1848) (Size: female, 4.53–5.80 mm; male, 3.00–5.00 mm)

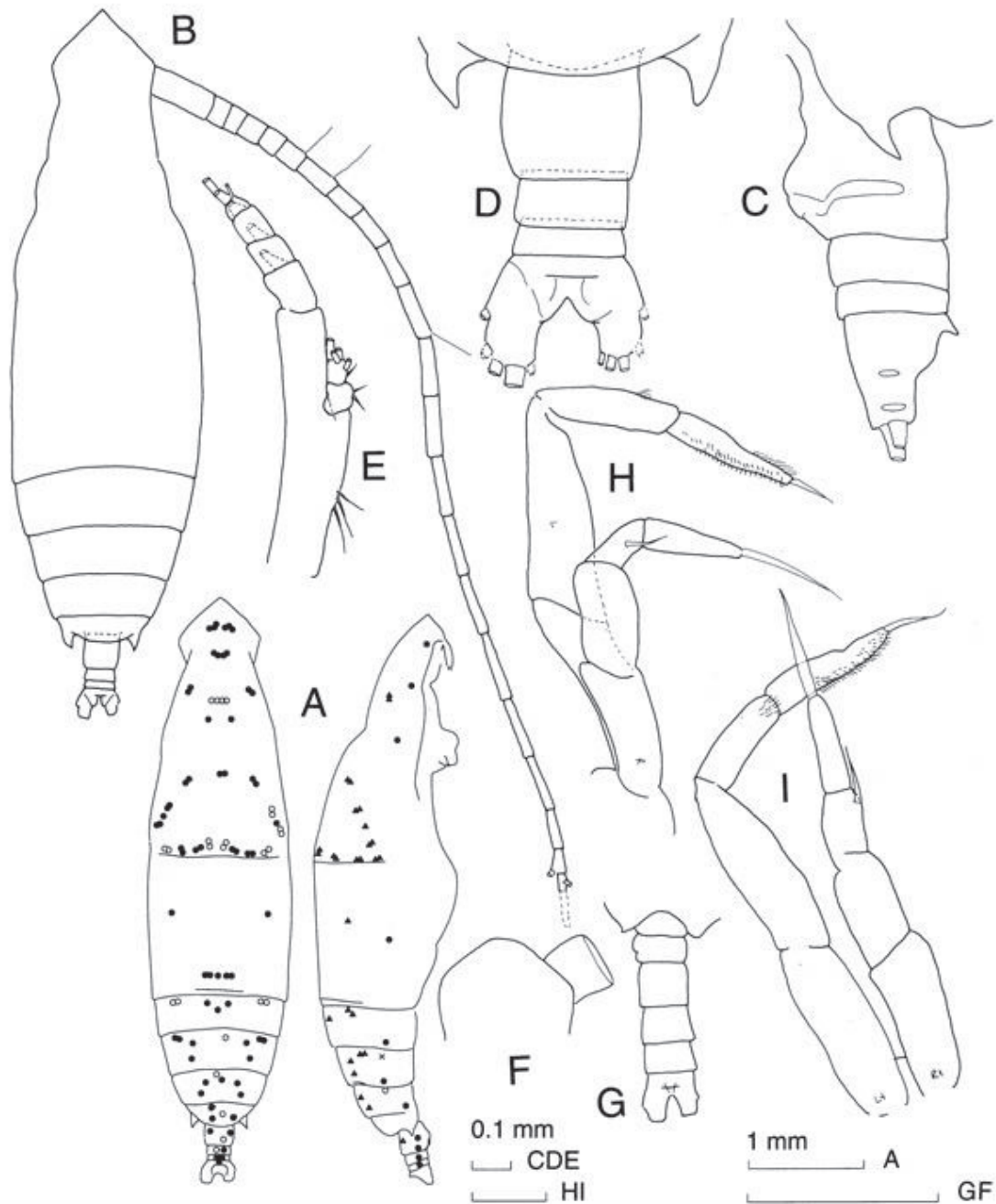


*Eucalanus elongatus* (Dana, 1848)

Mori, 1937: pl. 7. *Eucalanus elongatus* (Dana, 1848), Female. 1, habitus (dorsal); 3, mandible; 5, maxillule. Male. 2, habitus (dorsal); 4, leg 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 07, 2021].

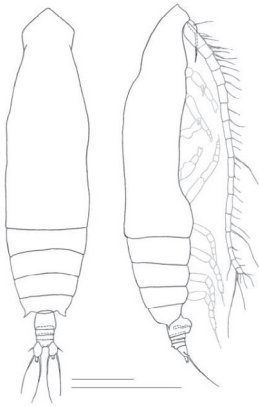
*Eucalanus hyalinus* (Claus, 1866) (Size: female, 5.70–7.10 mm; male, 4.26–6.25 mm)



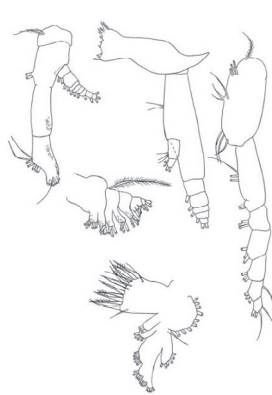
*Eucalanus hyalinus* (Claus, 1866)

Bradford-Grieve, 1994: fig. 42. *Eucalanus hyalinus* (Claus, 1866), Female. A, habitus (dorsal/lateral); B, habitus (dorsal); C/D, urosome (lateral/dorsal); E, mandibular palp. Male. F, forehead (dorsal); G, urosome (dorsal); H/I, leg 5 (lateral/anterior).

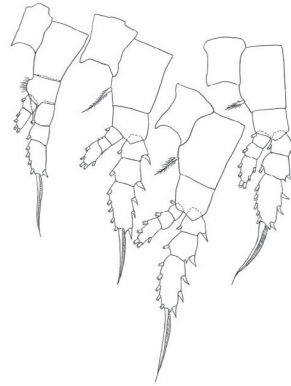
Adapted from Razouls C., de Bovée F., Kouwenberg J. and Desreumaux N., 2005–2020. Diversity and Geographic Distribution of Marine Planktonic Copepods. Sorbonne University, CNRS. Available at <http://copepodes.obs-banyuls.fr/en>. [Accessed August 07, 2020].

*Eucalanus hyalinus* (Claus, 1866)

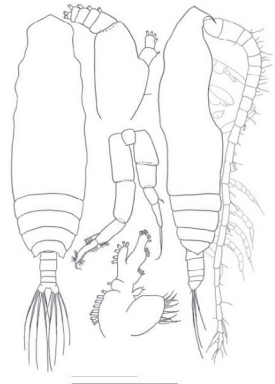
Female



Female: mouth parts



Female: legs



Male

*Eucalanus hyalinus* (Claus, 1866)

Original. *Eucalanus hyalinus* (Claus, 1866). Female, 5.74 mm, East China Sea: 25°25'N, 122°15'E, 200 m, habitus (dorsal/lateral); Female: mouth parts; Female: legs; Male, 5.64 mm, South China Sea: 6°30'N, 115°01'E, 1200 m, habitus (dorsal/lateral), mandible, maxillule, leg 5.