



Key to the species of Calanidae Mesocalanus occurring in the China Seas

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REVIEW-TAXONOMIC INDEX

Key to the Species of Calanidae *Mesocalanus* Occurring in the China Seas

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Mesocalanus lighti(2a/3a/f), *tenuicornis*(2b/3b/f)

1a	Female	2
1b	Male	3
2a/1a	Antennule more than 2 times as long as body. Length/width ratio of prosome about 3.5. Width of posterior margin of pedigers 1 and 3 subequal	<i>Mesocalanus lighti</i>
2b	Antennule about 1.5 times as long as body. Length/width ratio of prosome about 2.8. Width of posterior margin of pediger 1 about 1.2 times width of posterior margin of pediger 3.....	<i>Mesocalanus tenuicornis</i>
3a/1b	Posterolateral caudal seta very short, slightly less than one-tenth length of outer terminal caudal seta. Prosome slender, length 3.6 times width. Left leg 5, exopod segment 2 nearly as long as segment 3	<i>Mesocalanus lighti</i>
3b	Posterolateral caudal seta longer, about 0.7 times length of outer terminal caudal seta. Prosome length 2.8 times width. Left leg 5, exopod segment 2 almost twice as long as segment 3	<i>Mesocalanus tenuicornis</i>

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Mesocalanus lighti (Bowman, 1955) (Size: female, 2.10–3.08 mm; male, 1.90–2.68 mm)

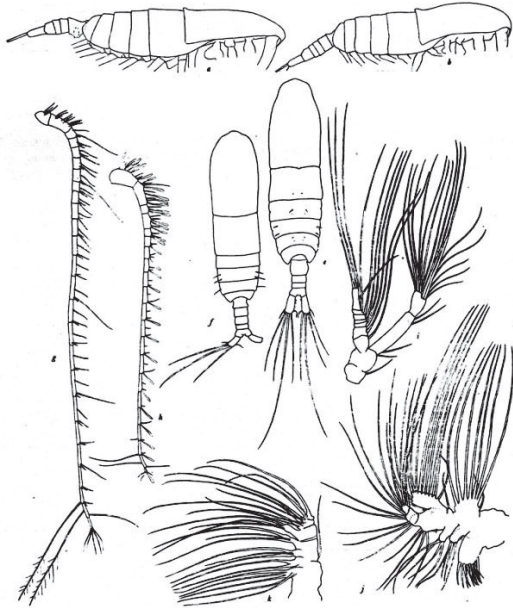


Fig. 1

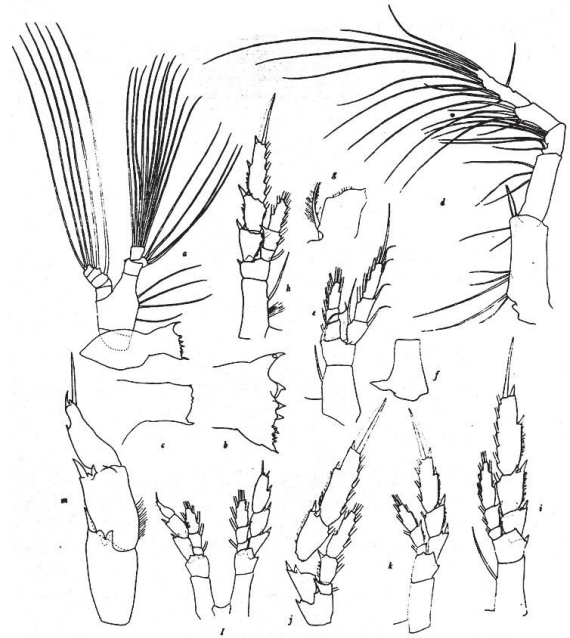


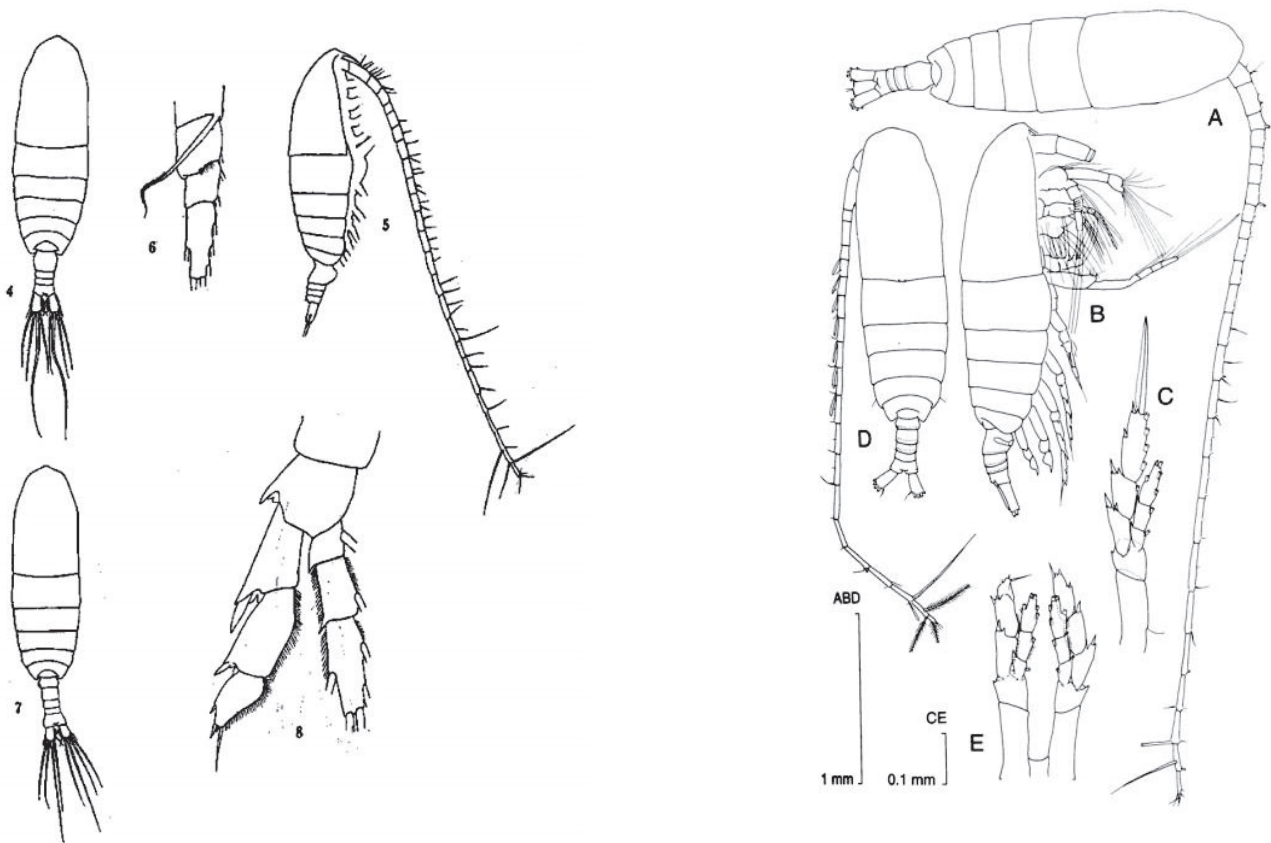
Fig. 2

Mesocalanus lighti (Bowman, 1955)

Bowman, 1955. As *Calanus lighti*. Fig.1, a-b; e-k. Female (off Baja California): a/e, habitus (lateral/dorsal); g, antennule; i, antenna; j, maxillule; k, maxilla. Nota: Ratio of length to depth of cephalothorax about 6:1 (as opposed to 4.5:1 in *M. tenuicornis*). Male: b/f, habitus (lateral/dorsal); h, antennule. Fig.2. Female: a, mandible; b, mandibular masticatory edge; d, maxilliped; e, leg 1; f, leg 5 exopod segment 1 (lateral); g, 1st segment of endopod of P1; h, P2; i, P3; j, P4 (basipod 1 not shown). Male: c, mandibular gnathal lobe; l, leg 5; m, left leg 5 exopod.

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 25, 2021].

Mesocalanus tenuicornis (Dana, 1849) (Size: female, 1.50-3.40 mm; male, 1.50-3.40 mm)



Chen & Zhang

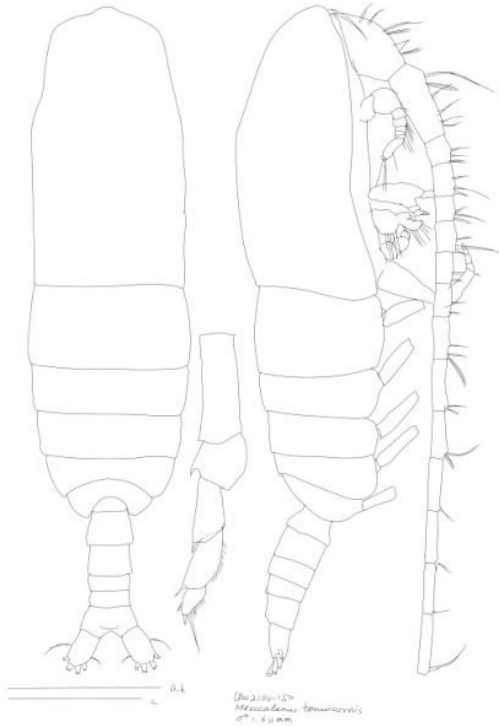
Mesocalanus tenuicornis (Dana, 1849)

Bradford-Grieve

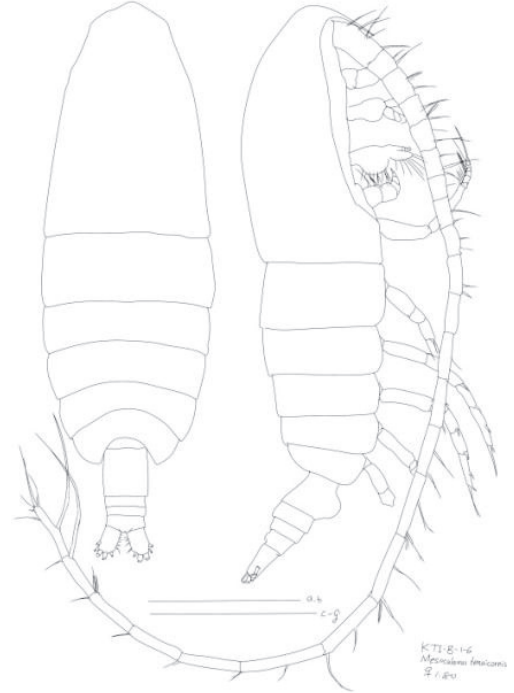
Chen & Zhang, 1965 As *Neocalanus tenuicornis*. Pl.2, 4–8. *Mesocalanus tenuicornis* (Dana, 1849), Female (from E China Sea): 4/5, habitus (dorsal/lateral); 6, leg 1 endopod (anterior). Male: 7, habitus (dorsal); 8, left leg 5 (posterior).

Bradford-Grieve, 1994. Fig.14. Female: A/B, habitus (dorsal/lateral); C, leg 5. Male: D, habitus (dorsal); E, P5 with 7 setae each.

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 25, 2021].

Mesocalanus tenuicornis (Dana, 1849)

Female



Male

Mesocalanus tenuicornis (Dana, 1849)

Original. *Mesocalanus tenuicornis* (Dana, 1849), female, 1.80 mm. East China Sea, habitus (dorsal/lateral); male, 1.60 mm, habitus (dorsal/lateral).leg 5.

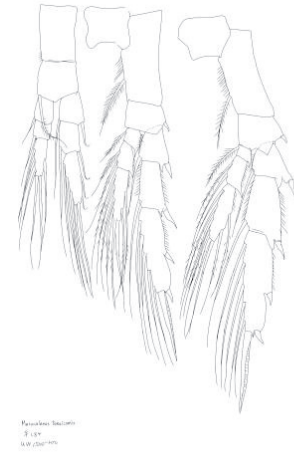
Mesocalanus tenuicornis (Dana, 1849)



Antenna & mandible



Maxillule, maxilla & maxilliped



Legs 1-3

Mesocalanus tenuicornis (Dana, 1849)

Original. *Mesocalanus tenuicornis* (Dana, 1849), Female, antenna & mandible; maxillule, maxilla & maxilliped; legs 1–3.