



Key to the species of Calanidae Cosmocalanus 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 Calanidae Cosmocalanus occurring in the China Seas," *Journal of Marine Science and Technology*: Vol. 30: Iss. 5, Article 29.

DOI: 10.51400/2709-6998.2620

Available at: <https://jmstt.ntou.edu.tw/journal/vol30/iss5/29>

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 Calanidae *Cosmocalanus* 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

Cosmocalanus caroli (2a/3a/f), *darwini* (2b/3b/f)

1a	Female	2
1b	Male	3
2a/1a	Posterolateral corner of prosome in lateral view triangularly squared. Genital double-somite length about 1.2 times width	<i>Cosmocalanus caroli</i>
2b	Posterolateral corner of prosome in lateral view narrowly rounded. Genital double-somite about as long as wide	<i>Cosmocalanus darwini</i>
3a/1b	Right leg 5 exopod segment 3: distal half of outer margin with 3 processes, proximal 2 processes rounded, distal process sharply pointed	<i>Cosmocalanus caroli</i>
3b	Right leg 5 exopod segment 3: inner margin with a single beak-like process	<i>Cosmocalanus darwini</i>

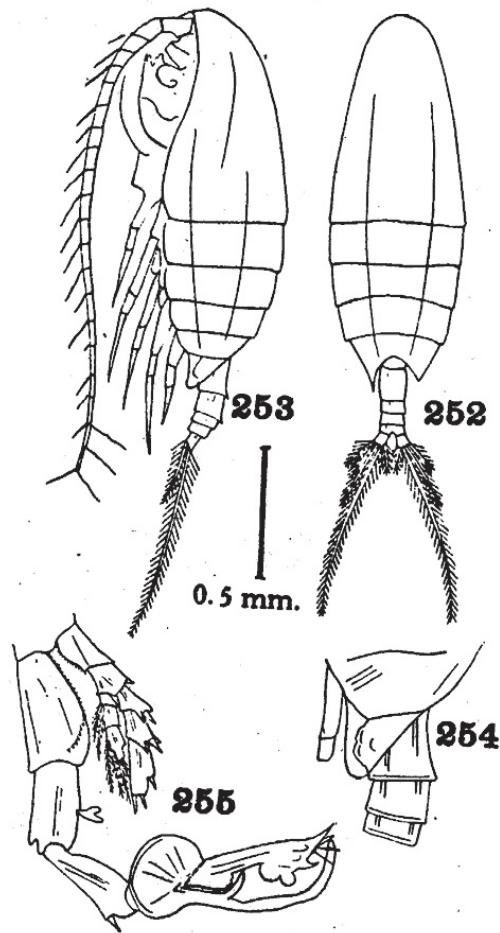
Available online 14 November 2022

* Corresponding author.

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



Cosmocalanus caroli (Giesbrecht, 1888) (Size: female, 1.97–2.14 mm; male, 1.50–1.85 mm)

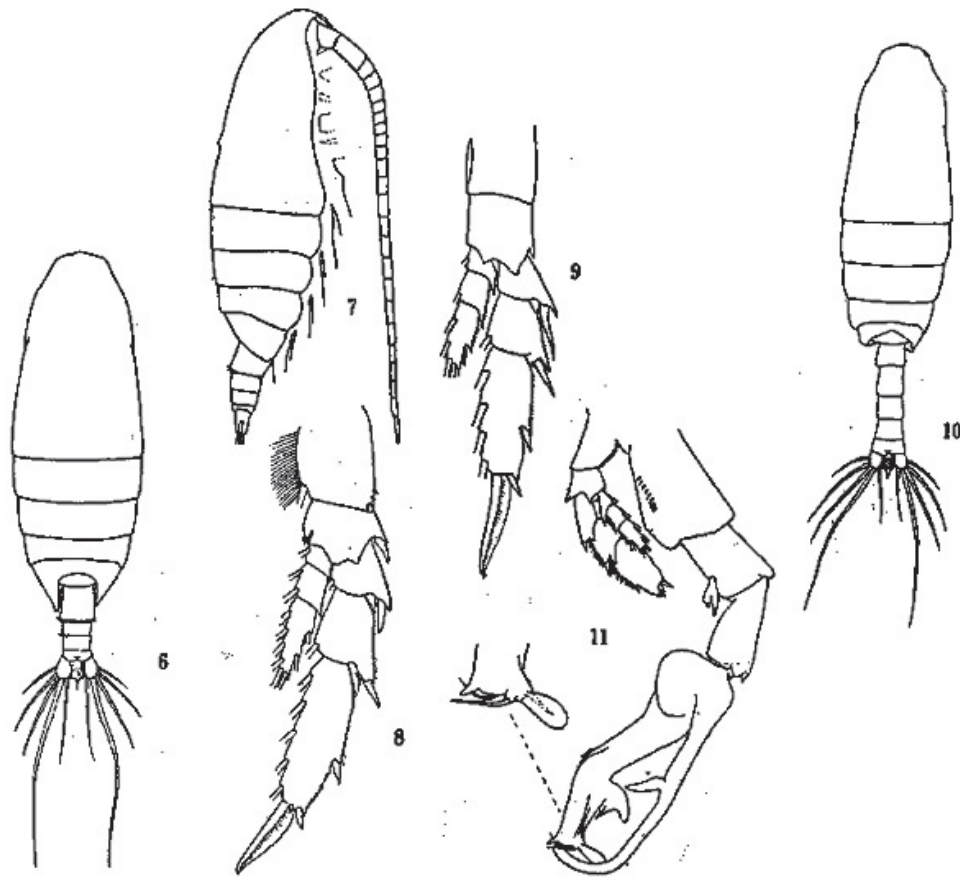


Cosmocalanus caroli (Giesbrecht, 1888)

C.B. Wilson, 1950: pl. 19. Female. 252/253. habitus (dorsal/lateral); 254. pediger 5 & urosomite 1–3 (lateral). Male. 255. 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 26, 2021].

Cosmocalanus darwini (Lubbock, 1860) (Size: Female, 1.60–2.58 mm; male, 1.60–2.35 mm)

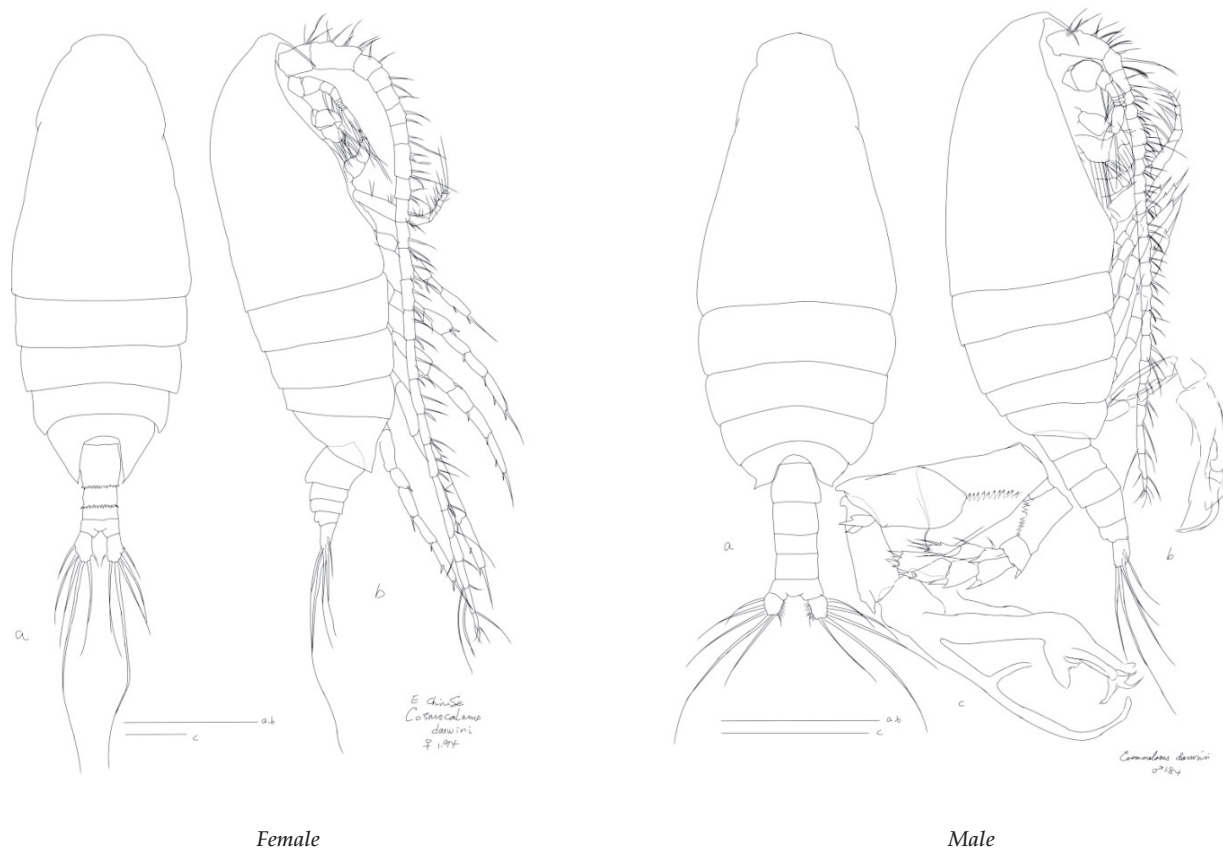


Cosmocalanus darwini (Lubbock, 1860)

Chen & Zhang, 1965: pl. 4. Female (from East China Sea). 6/7. habitus (dorsal/lateral); 8. leg 3 (posterior); 9. leg 5 (posterior). Male. 10. habitus (dorsal); 11. 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 November 26, 2020].

Cosmocalanus darwini (Lubbock, 1860)



Original. *Cosmocalanus darwini* (Lubbock, 1860), Female 1.94 mm, East China Sea (23°55'N 122°25'E) a/b. habitus (dorsal/lateral). Male 1.84 mm, East China Sea (25°05'N 123°10'E) a/b. habitus (dorsal/lateral); c. leg 5 (anterior).

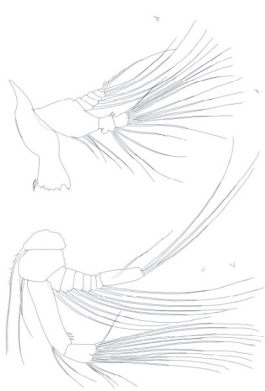
Cosmocalanus darwini (Lubbock, 1860)

Fig. 1(c/d)



Fig. 2(e/f/g)

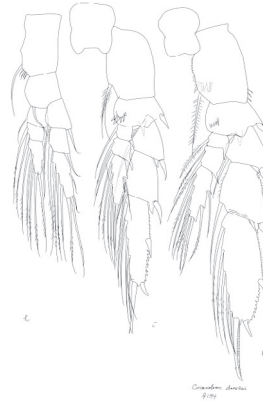


Fig. 3(h/i/j)

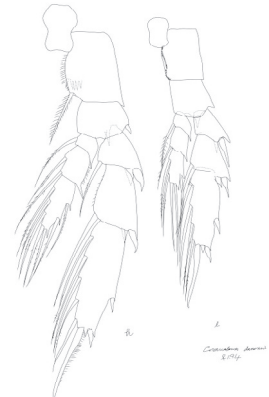


Fig. 4(j/k)

Cosmocalanus darwini (Lubbock, 1860) (*Mouth parts & legs, female)

Original. *Cosmocalanus darwini* (Lubbock, 1860), Female 1.94 mm, East China Sea (23°55'N 122°25'E). Fig. 1: c. right antenna, posterior; d. right mandible, posterior; Fig. 2: e. right maxillule, posterior; f. right maxilla, posterior; g. right maxilliped, posterior; Fig. 3: h. right leg 1, posterior; i. right leg 2, posterior; Fig. 4: j. leg 3, posterior, k. leg 4, posterior; l. right leg 5, posterior.