

**Zooplankton.**

**Sheet 40.**

**COPEPODA**

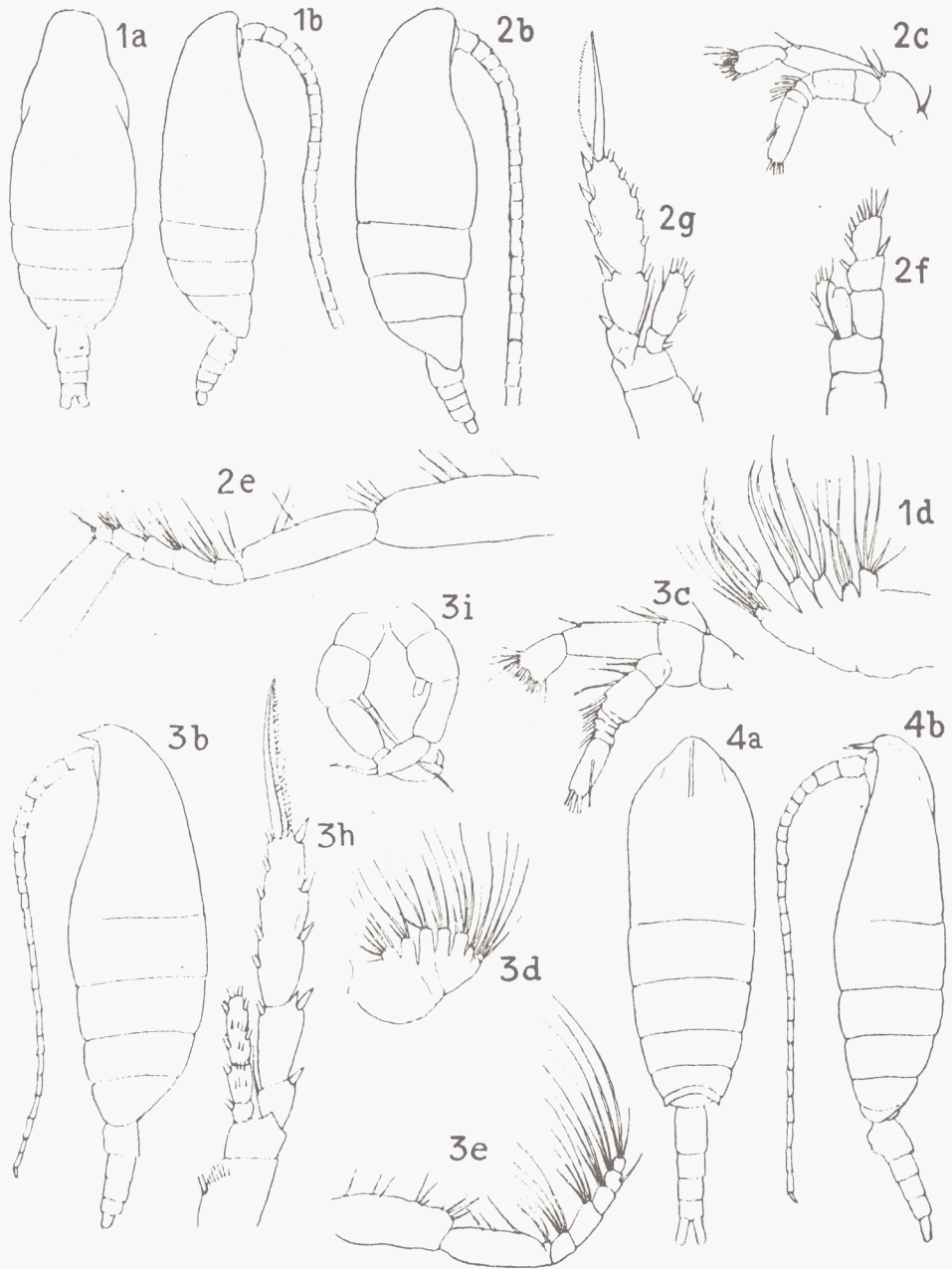
**SUB-ORDER: CALANOIDA**

**Family: Spinocalanidae**

**Genera: MIMOCALANUS  
MONACILLA**

(By G. P. Farran †,  
revised by W. Vervoort)

**1951.**



1, *Mimocalanus cultrifer*; 2, *Mimocalanus nudus*; 3, *Monacilla typica*; 4, *Monacilla tenera*.  
a, ♀ dorsal; b, ♀ lateral; c, ♀ 2nd antenna; d, ♀ 2nd maxilla; e, ♀ maxilliped; f, ♀ 1st foot;  
g, ♀ 2nd foot; h, ♀ 4th foot; i, ♂ 5th feet.

**Genus MIMOCALANUS Farran, 1905**

Females with body, jointing of feet and arrangement of spines and setae as in *Spinocalanus*. Rostrum absent, no spinulose armature on posterior surface of feet, terminal spines on exopods with broad, minutely denticulate laminae. 1st antennae longer than body, 25-jointed (8th and 9th joints almost completely separate). Maxillipeds each with 4th joints (2nd basipodal joints) not much longer than preceding. 5th feet absent. ♂ unknown.

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| <p>1. <i>M. cultrifer</i> Farran, 1908. ♀ 1.2—1.9 mm. Cephalon and 1st thoracic somite partially fused; 4th and 5th thoracic somites separate. 2nd maxillae each with two thickened spines on 3rd, 4th and 5th lobes. Oceanic, deep-water.</p> | <p>2. <i>M. nudus</i> Farran, 1908. ♀ 2.64 mm. Resembles <i>M. cultrifer</i>, but 4th and 5th thoracic segments fused; thickened spines on lobes of 2nd maxillae stouter than in preceding species. Oceanic, deep-water.</p> |
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**Genus MONACILLA G. O. Sars, 1905**

Female with rostrum composed of two sharp, vertically directed spines. 1st antennae not reaching much beyond genital segment, joints 8 and 9 fused. Jointing of feet and arrangement of spines and setae as in *Spinocalanus*; posterior surface spinulose. Males with depressed rostrum; mouth parts reduced. 5th feet biramose on both sides; endopods 1-jointed, exopods 3-jointed.

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| <p>3. <i>M. typica</i> G. O. Sars, 1905. ♀ 1.95—2.40 mm., ♂ 1.60—2.3 mm. Cephalon rounded, fused with 1st thoracic segment. Rostrum composed of 2 strong, equal points. 4th and 5th thoracic somites fused; 5th produced laterally and rounded. Male with rostrum depressed, present as rounded protuberance. Mouth parts reduced. 5th feet each with both rami present, but only slightly styliform, right endopod reduced in length. Oceanic, deep-water.</p> | <p>4. <i>M. tenera</i> G. O. Sars, 1907. ♀ 1.8—2.3 mm. Body more slender than that of <i>M. typica</i>. Cephalon strongly keeled anterodorsally. Rostrum composed of two unequal, long, vertically directed points. Cephalon and 1st thoracic somite separate, as are the 4th and 5th thoracic somites. ♂ unknown. Oceanic, deep-water.</p> |
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References to Descriptions and Figures.

1. *M. cultrifer*: Farran, 1908, Pl. 1, Figs. 5—9. Rose, 1933, Fig. 47. Vervoort, 1946.
2. *M. nudus*: Farran, 1908, Pl. 1, Figs. 1—4.
3. *M. typica*: Sars, 1905. Farran, 1908, Pl. 1, Figs. 11—17 (as *Oxycalanus spinifer*). A. Scott, 1909, Pl. 2, Figs. 9—21 (as *Oxycalanus semispinus*), Pl. 3, Figs. 17—29 (as *Monacilla dubia*). Wolfenden, 1911, Pl. 25, Figs. 12—14, Textfig. 10 (as *Oxycalanus gracilis*). Sars, 1924—25, Pl. 11, Figs. 1—15. Rose, 1933, Fig. 49.
4. *M. tenera*: Sars, 1907; Wolfenden, 1911, Pl. 25, Figs. 6—11 (as *Hypsicalanus gracilis*). Sars, 1924—25, Pl. 12, Figs. 11—18. Farran, 1926, Pl. 6, Figs. 13, 14. Rose, 1933, Fig. 50.

Distribution

Species

Gulf of Bothnia .....	—
Gulf of Finland .....	—
Baltic proper .....	—
Belt Sea .....	—
Kattegat .....	—
Skagerak .....	—
Northern North Sea .....	—
Southern North Sea .....	—
English Channel (eastern) .....	—
English Channel (western) .....	—
Bristol Channel and Irish Sea .....	—
South and West Ireland .....	1, 2, 3
North-eastern Atlantic .....	1, 2, 3, 4
Faroe Shetland Area .....	—
Faroe Iceland Area .....	—
Norwegian Sea .....	—
Barents Sea .....	—

References to Work on Biology.

- Davis (1949) 1. Farran (1908) 1, 2, 3; (1926) 1, 3, 4. Lysholm, Nordgaard and Wiborg (1945) 3. Sars (1924—25) 3, 4. A. Scott (1909) 3. Sewell (1929) 4. Vervoort (1946) 1, 3. Wolfenden (1911) 3, 4.

**References.**

<p>Davis, C. C., 1949. Univ. Wash. Publ. Biol., Vol. 14.          Farran, G. P., 1908. Fish., Ireland, Sci. Invest., 1906, Pt. 2.          — 1926. J. Linn. Soc., London., Zool., Vol. 36.          Lysholm, B., O. Nordgaard and K. F. Wiborg, 1945. Rep. Sci. Res. "Michael Sars" Exped., 1910, Vol. 5, No. 7.          Sars, G. O., 1905. Bull. Inst. Océanogr. Monaco, No. 40.</p>	<p>Sars, G. O., 1907. Bull. Inst. Océanogr. Monaco, No. 101.          — 1924—25. Rés. Camp. Sci. Monaco, Vol. 69, Atlas (1924) and Text (1925).          Sewell, R. B. S., 1929. Mem. Indian Mus., Vol. 10, Pt. 1.          Vervoort, W., 1946. Temminckia, Vol. 8 (1949, issued separately 1946).          Wolfenden, R. H., 1911. Deutsche Südpolar Exped., Vol. 12 (Zool., Vol. 4).</p>
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