



1, *Calocalanus pavo*; 2, *Calocalanus styliremis*; 3, *Calocalanus contractus*;
4, *Calocalanus tenuis*; 5, *Calocalanus plumulosus*.
a, ♀ dorsal; b, ♀ 1st antenna, terminal joints; c, ♀ 2nd foot; d, ♀ 5th foot; e, ♀ 5th feet, f, ♂ 5th feet.
(Figs. 1a, e, f, 2b, e, after Giesbrecht; remainder original).

Genus CALOCALANUS Giesbrecht, 1888

Cephalon and 1st thoracic somite, as well as the 4th and 5th thoracic somites, fused. Abdomen in female 2- or 3-jointed, furca sometimes asymmetrical. Last joints of 1st antennae elongated. Exopods of 1st to 4th feet 3-jointed, endopods of 1st feet 2-jointed, of 2nd to 4th feet 3-jointed. 3rd exopodal joints of 2nd to 4th feet with 2 spines on outer edge and 5 setae on inner edge. 5th feet uniramous, not natatory, 3- or 4-jointed. Rostrum composed of two fine filaments. Male with reduced number of joints of 1st antennae. 5th feet asymmetrical, 4-jointed on right side, 5-jointed on left side and there more elongated. Mainly Oceanic epiplankton.

1. *C. pavo* (Dana, 1849). Female with stout body; abdomen 2-segmented, genital segment much wider than long. Furca symmetrical, rami widely diverging, longer than broad, in undamaged condition with beautifully plumose setae. Last joints of 1st antennae 5 times as long as penultimate. Males with left 5th foot 5-jointed, much longer than 4-jointed right 5th foot, which carries 2 small apical setae.
2. *C. styliremis* Giesbrecht, 1888. Females with stout body, abdomen 3-segmented. Furcal rami symmetrical, as long as wide, slightly diverging. Last joints of 1st antennae twice the length of the penultimate. Male with 5th feet as in *C. pavo*, right foot with single apical seta.
3. *C. contractus* Farran, 1926. Female resembles *C. styliremis*, but body not so stout.
4. *C. tenuis* Farran, 1926. Body of female fusiform, abdomen 3-segmented, genital segment longer than broad. Furcal rami symmetrical, as wide as long, not divergent.

C. plumulosus (Claus, 1863) (Fig. 5) has not yet been recorded from off western Europe, but may possibly occur.

Species	Length in mm.	Female abdomen	Female genital segment	Female body	Female 5th feet	Female furca
<i>C. pavo</i>	♀ 0.88—1.2 ♂ 1.04	2-jointed	broader than long, onion shaped	stout	4-jointed, 4 or 5 apical setae	1×2, rami widely divergent
<i>C. styliremis</i>	♀ 0.6—0.85 ♂ 0.55	3-jointed	broader than long, partly covering 2nd segment,	stout	3-jointed, 1 terminal seta	1×1, slightly divergent
<i>C. contractus</i>	♀ 0.6—0.78 ♂ ?	3-jointed	onion shaped as in <i>C. styliremis</i>	more slender than in <i>C. styliremis</i>	3-jointed, 2 terminal setae	1×1, slightly divergent
<i>C. tenuis</i>	♀ 1.18—1.22 ♂ ?	3-jointed	longer than broad	fusiform, slender	4-jointed, 3 apical setae	1×1, parallel

References to Descriptions and Figures.

1. *C. pavo*: Giesbrecht, 1892, Pl. 1, Fig. 13, Pl. 4, Fig. 15, Pl. 9, Figs. 3, 4, 13, 16, 19, Pl. 36, Figs. 43—45. T. Scott, 1894, Pl. 6, Figs. 9, 10. Giesbrecht & Schmeil, 1898. Wheeler, 1900, Fig. 7. Van Breemen, 1908, Fig. 13. Pesta, 1920, Fig. all. Früchtl, 1924, Fig. 5. Wilson, 1932, Fig. 22. Rose, 1933, Fig. 29. Vervoort, 1946.
2. *C. styliremis*: Giesbrecht, 1892, Pl. 9, Figs. 15, 18, 29, Pl. 36, Figs. 46—48. Giesbrecht & Schmeil, 1898. Van Breemen, 1908, Fig. 19. Früchtl, 1923, Figs. 7—9. Farran, 1926, Pl. 5, Figs. 5, 6. Rose, 1933, Fig. 30. Wilson, 1942, Figs. 12, 14.
3. *C. contractus*: Farran, 1926, Pl. 5, Figs. 1—4. Sewell, 1929, Fig. 35. Rose, 1933, Fig. 32.
4. *C. tenuis*: Farran, 1926, Pl. 5, Figs. 7—12.

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	2, 3, 4
North-eastern Atlantic	1, 2, 3, 4
Faroe Shetland Area	—
Faroe Iceland Area	—
Norwegian Sea	—
Barents Sea	—

References to Work on Biology.

- Van Breemen (1908) 1, 2. Catalogue, etc. (1906, 1909, 1916) 2. Cleve (1900, 1902) 1. Farran (1908, 1920) 2; (1926) 2, 3, 4; (1936) 1, 3. Früchtl (1923) 1; (1924) 1, 2; (1934) 2. Giesbrecht (1892) 1, 2. Pesta (1912, 1920) 1. Sars (1924—25) 2. T. Scott (1894) 1. A. Scott (1909) 1. Sewell (1929) 1, 2, 3; (1947) 1. Steuer (1910) 1. Vervoort (1946) 1. Wheeler (1900) 1. Wilson (1932) 1; (1942) 1, 2. Wolfenden (1904) 1; (1905) 1, 2.

References.

- Breemen, P. J. van, 1908. Nordisches Plankton, Vol. 4, Pt. 8.
Catalogue des espèces, etc. Publ. Circ. Cons. Perm. Internat. Explor. Mer, No. 33 (1906), No. 48 (1909), No. 70 (1916).
Cleve, P. T., 1900. The Seasonal Distribution of Atlantic Plankton Organisms.
— 1902. Additional Notes on the Seasonal Distribution of Atlantic Plankton Organisms.
Farran, G. P., 1908. Fish., Ireland, Sci. Invest., 1906, Pt. 2.
— 1920. Publ. Circ. Cons. Perm. Internat. Explor. Mer, No. 73.
— 1926. J. Linn. Soc., Lond., Zool., Vol. 36.
— 1936. Sci. Repts. Gr. Barrier Reef Exped., 1928—29, Vol. 5, No. 3.
Früchtl, F., 1923. Verh. Zool. Bot. Ges. Wien, Vol. 73.
— 1924. S.B. Akad. Wiss. Wien, Math. Nat. Kl., Vol. 132, Sect. 1.
— 1934. S.B. Akad. Wiss. Wien, Math. Nat. Kl., Vol. 143, Sect. 1.
Giesbrecht, W., 1892. Fauna u. Flora Golf. Neapel, Vol. 19.
Giesbrecht, W. & O. Schmeil, 1898. Das Tierreich, Vol. 6, Copepoda, I, Gymnoplea.
Pesta, O., 1912. Denkschr. Akad. Wiss. Wien, Math. Nat. Kl., Vol. 87.
— 1920. Zool. Jahrb., Syst., Vol. 43.
Rose, M., 1929. Rés. Camp. Sci. Monaco, Vol. 78.
— 1933. Faune de France, Vol. 26.
Sars, G. O., 1924—25. Rés. Camp. Sci. Monaco, Vol. 69, Plates (1924) and Text (1925).
Scott, A., 1909. Siboga Exped., Mon. 29a.
Scott, T., 1894. Trans. Linn. Soc., Lond., Zool. (2), Vol. 6.
Sewell, R. B. S., 1929. Mem. Indian Mus., Vol. 10, Pt. 1.
— 1947. Sci. Rep. John Murray Exped., 1933—34, Vol. 3, No. 1.
Steuer, A., 1910. S.B. Akad. Wiss. Wien, Math. Nat. Kl., Vol. 119, Sect. 1.
Vervoort, W., 1946. Temminckia, Vol. 8 (1949, issued separately 1946).
Wheeler, W. M., 1900. Bull. U.S. Fish. Comm., 1899.
Wilson, C. B., 1932. Bull. U.S. Nat. Mus., Vol. 158.
— 1942. Carnegie Inst. Washington Publ. No. 536.
Wolfenden, R. N., 1904. J. Mar. Biol. Ass. U.K., N.S., Vol. 7.
— 1905. Fauna Geogr. Maldive and Laccadive Archip., Vol. 2, Suppl. 1.