

Zooplankton.

Sheet 42.

COPEPODA

SUB-ORDER: CALANOIDA

Family: Aetideidae

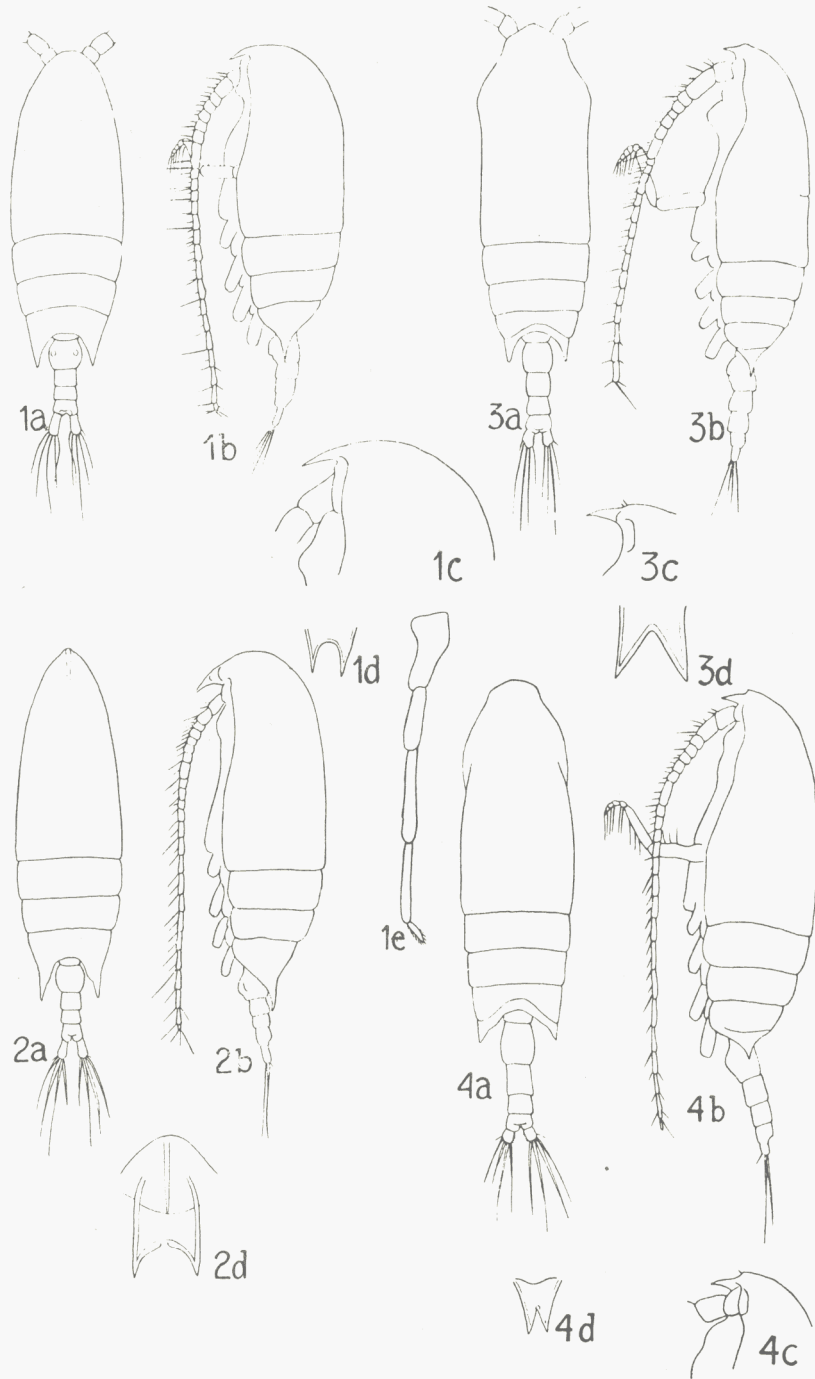
GENERA: AETIDEUS

EUAETIDEUS

AETIDEOPSIS

(By W. Vervoort)

1952.



1. *Aetideus armatus*. 2. *Euaetideus giesbrechti*. 3. *Aetideopsis rostrata*. 4. *Aetideopsis multiserrata*.
a, ♀, dorsal view; b, ♀, lateral view; c, ♀, head and rostrum, lateral view; d, ♀, rostrum, ventral view; e, ♂, 5th foot.
(All figures after Sars)

Genus AETIDEUS Brady, 1883

Cephalon and 1st thoracic somite, as well as 4th and 5th thoracic somites fused. Postero-lateral thoracic margin with acute backwardly directed points. Females with strongly chitinized, 2-pointed, not greatly thickened rostrum. Cephalon vaulted, smooth, not strongly chitinized. 1st antennae 23-jointed (joints 8 and 9, 24 and 25 fused). Endopods of 1st and 2nd feet 1-jointed. 1st exopodal joints of 1st feet without spine on outer edge. Rostrum absent in male, lateral spines reduced in length. 1st antennae 20-jointed, oral parts reduced. 5th feet present on left side only, 5-jointed, elongated.

1. *Aetideus armatus* (Boeck, 1872). ♀ 1.80—1.95 mm., ♂ 1.40—1.55 mm.
 ♀. Points of lateral thoracic margin reach end of genital segment. Genital somite slightly swollen laterally, genital tubercle distinct. Furcal joints about 3 times as long as wide, much longer than anal segment. 1st antennae reach end of furca.
 ♂. Points of last thoracic somite reduced in length. 1st antennae reach 2nd abdominal segment.
 Oceanic, usually deep water, occasionally (during the night) in epiplankton.

Genus EUAETIDEUS G. O. Sars, 1925

Resembles *Aetideus*, but female with rostrum developed as strongly chitinized, bifurcated plate. Cephalon strongly chitinized, broadly rounded. Postero-lateral thoracic border more or less winged, turned slightly upwards. Males unknown.

2. *Euaetideus giesbrechti* (Cleve, 1904). ♀ 1.5—2.2 mm. Cephalon and 1st thoracic somite fused; cephalon slightly keeled, broadly rounded into strongly chitinized rostral plate. Rostral points separated by rounded incision. 4th and 5th thoracic somites fused, lateral thoracic margin pointed, dorsal border winged, points reaching end of 2nd abdominal segment.
 Oceanic, deep water, occasionally (during the night) in epiplankton.

Genus AETIDEOPSIS G. O. Sars, 1903

Resembles *Aetideus*, but frontal part of cephalon with rather prominent frontal organ, visible from back. Cephalon and 1st thoracic somite fused or indistinctly separate. 4th and 5th thoracic segments separate. Rostrum distinct, 2-pointed, incision between points deep. Lateral thoracic border acutely pointed. 1st antennae 24-jointed. 2nd basal joints of maxillipeds rather long, longer than 1st. Endopods of 2nd feet 2-jointed. 1st and 2nd exopodal joints of 1st feet each with a spine on outer edge. Terminal spines of exopods with numerous sharp spines along outer edge. Males unknown.

3. *Aetideopsis rostrata* G. O. Sars, 1903. ♀ 3.0—4.4 mm. Cephalon and 1st thoracic somite separated by transverse groove on back. Rostrum strong, points slightly divergent, pointing downwards and slightly forwards. Postero-lateral thoracic border with points that reach middle of genital segment. 1st antennae reach end of 2nd abdominal segment. Carapace strongly chitinized. Oceanic, deep water.
4. *Aetideopsis multiserrata* (Wolfenden, 1904). ♀ 2.7—2.8 mm. Resembles preceding form but smaller, integument not so strongly chitinized. Rostrum less strongly formed, points weak, not divergent, separated by V-shaped, shallow incision. Cephalon completely fused with 1st thoracic somite. Points of lateral thoracic border scarcely reach beginning of genital segment. 1st antennae long, almost reaching end of furca.
 Oceanic, deep water.

References to Descriptions and Figures.

	Distribution	Species
1. <i>A. armatus</i> : Boeck, 1872 (as <i>Pseudocalanus armatus</i>): Brady, 1878, Pl. 4, Fig. 10 (as <i>Pseudocalanus armatus</i> ♂); Thompson, 1893, Pl. 15, Fig. 4 (as <i>Pseudocalanus armatus</i>): Sars, 1901—03, Pls. 13, 14; Esterly, 1905, Fig. 14; van Breemen, 1908, Fig. 30; A. Scott, 1909, Pl. 4, Figs. 14—25; Wolfenden, 1911, Fig. 4; With, 1915, Pl. 2, Fig. 1, Textfig. 16; Pesta, 1920, Fig. B 19; Wilson, 1932, Fig. 26; Rose, 1933, Fig. 51.	Gulf of Bothnia — Gulf of Finland — Baltic proper — Belt Sea — Kattegat — Skagerak —	— — — — — —
2. <i>E. giesbrechti</i> : Giesbrecht, 1892, Pl. 2, Fig. 6, Pl. 14, Figs. 1—6, 8—11, Pl. 36, Figs. 6, 8, 9 (as <i>Aetideus armatus</i>): Cleve, 1904 (as <i>A. giesbrechti</i>): A. Scott, 1909, Pl. 4, Figs. 1—13 (as <i>A. giesbrechti</i>): Wolfenden, 1911, Pl. 24, Fig. 8, Textfig. 5 (as <i>A. giesbrechti</i>): Pesta, 1920, Fig. B 20 (as <i>A. giesbrechti</i>): Sars, 1924—25, Pl. 14, Figs. 1—3; Rose, 1933, Fig. 52.	Northern North Sea 1 Southern North Sea (1) English Channel (eastern) — English Channel (western) 1 Bristol Channel and Irish Sea 1	— — — 1 1
3. <i>A. rostrata</i> : Sars, 1901—03, Suppl. Pls. 4, 5; Damas & Koefoed, 1907, Fig. 14; van Breemen, 1908, Fig. 35; With, 1915, Pl. 2, Fig. 6, Textfig. 22; Wilson, 1932, Fig. 27; Rose, 1933, Fig. 53.	South and West Ireland 1, 2, 4 North-eastern Atlantic 1, 2, 3, 4 Faroe Shetland Area 1, 2, 3 Faroe Iceland Area 1, 3, (4) Norwegian Sea 1, 3 Barents Sea (1), 3	— — — — — —
4. <i>A. multiserrata</i> : Wolfenden, 1904, Pl. 9, Figs. 26—28 (as <i>Faroella multiserrata</i>): With, 1915, Pl. 2, Fig. 4, Textfig. 18 (as <i>Chiridius nasutus</i>): Sars, 1924—25, Pl. 14, Figs. 4—8; Rose, 1933, Fig. 54.		

References to Work on Biology.

Bigelow (1926) 1; Bigelow & Leslie (1930) 1; Bigelow & Sears (1939) 1; Brady (1878) 1; van Breemen (1908) 1, 3; Candeias (1926) 2; Catalogue, etc. (1906, 1909, 1916) 1, 3; Cleve (1903) 1; (1904) 1, 2; Damas & Koefoed (1907) 3; Davis (1949) 1, 4; Farran (1905) 1; (1908) 1, 2, 4; (1911) 1; (1920) 1, 2; (1926) 1, 2, 3, 4; Fowler (1898) 1; Früchtl (1920, 1924) 1, 2; Giesbrecht (1892) 2; Gran (1902) 1; Hardy & Gunther (1935) 1; Jensen, Johansen & Levinsen (1903) 1; Jespersen (1934) 1, 3, 4; (1939) 3; (1940) 1; Lysholm (1913) 1; Lysholm & Nordgaard (1920) 1; Lysholm, Nordgaard & Wiborg (1945) 1, 2, 4; Moore (1937) 1; Paulsen (1909) 1; Pesta (1909) 1; (1920) 1, 2; Runnström (1932) 1; Sars (1901—03) 1, 3; (1924—25) 1, 2, 4; A. Scott (1909) 1, 2; Steuer (1910) 1, 2; Thompson (1893) 1; Thompson & Scott (1903) 1, 2; Wiborg (1940) 1; Wilson (1932) 1, 3; (1942) 1, 2; With (1915) 1, 3, 4; Wolfenden (1904) 1, 4; (1911) 1, 2.

References

see Sheet No. 41.