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Westvlaams Economisch Studiebureau
Brugge Reeks / Boek

CONSEIL INTERNATIONAL POUR L'EXPLORATION DE LA MER

Zooplankton
Sheet 12

COPEPODA
SUB-ORDER: CALANOIDA

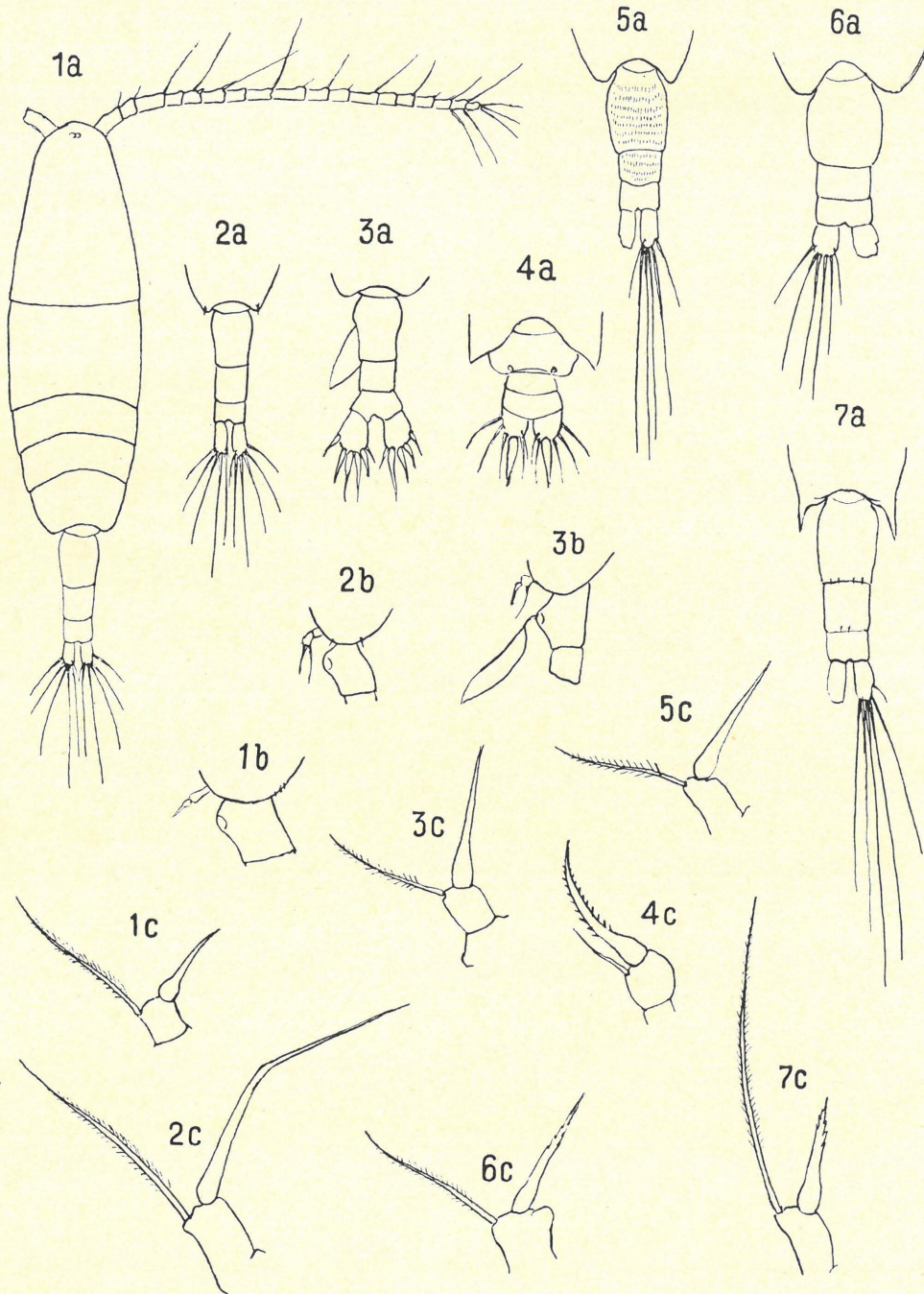
Family: Acartiidae

GENUS: ACARTIA

(By G. P. Farran†)

1948.

41235



1. *A. clausi*. 2. *A. longiremis*. 3. *A. discaudata*. 4. *A. grani*. 5. *A. bifilosa*. 6. *A. tonsa*. 7. *A. danae*.
a. ♀ dorsal. b. ♀ 5th thoracic and genital segments lateral. c. ♀ 5th foot.
(Figs. 1—4 except 2b after Sars. Figs. 2b, 5—7 after Giesbrecht).

Genus ACARTIA Dana 1846.

Endopodite of 1st to 4th feet 2-jointed; antennules 17 jointed, with long setae; female 5th feet with 1 free joint and terminal claw.

Species	Length mm.	Rostral Filaments	5th Thoracic Segment	Anal Segment and Furca	Other	Remarks
1. <i>A. (Acartiura) clausi</i> Giesbr.	♀ 0.9—1.2 ♂ 1.0—1.2	lacking	rounded, ♀ with 3—5 marginal spinules	♀ Furca 1×2	—	Euryhaline
2. <i>A. (Acartiura) longiremis</i> (Lillj.)	♀ 1.1—1.2 ♂ 0.9—1.1	lacking	rounded, ♀ with 2 widely separated short stiff setae	♀ Furca 1×2.5	—	Euryhaline
3. <i>A. (Acartiura) discaudata</i> Giesbr.	♀ 1.0—1.2 ♂ 1.0—1.1	lacking	rounded	♀ very broad, furcal setae short and stout	—	Low salinity
4. <i>A. (Paracartia) grani</i> Sars	♀ 1.0 ♂ 1.0	present	♀ winged	♀ genital s. broad, furca very short with short stiff setae	♂ right grasping antennule thickened	Brackish water
5. <i>A. (Acanthcartia) bifilosa</i> (Giesbr.)	♀ 1.0—1.1 ♂ 1.0—1.1	present	rounded	♀ genital s. and following s. beset with fine spinules dorsally; furca 1×2	—	Low salinity
6. <i>A. (Acanthcartia) tonsa</i> Dana	♀ 1.2—1.5 ♂ 1.0—1.1	present	rounded	♀ Abdomen short, furca 1×1	—	Brackish water, recent immigrant to European waters
7. <i>A. (Planktcartia) danae</i> Giesbr.	♀ 1.1—1.2 ♂ 0.7—0.8	present	acute, ♀ with strong lateral spine	Furca 1×2	—	Oceanic

References to Description and Figures.

1. *A. clausi*: Giesbrecht, 1892, Pl. 30, Figs. 2, 4, 13—15, 17, 28, 36, 37; Pl. 42, Fig. 32; Pl. 43, Figs. 3, 5, 14. Steuer, 1923, Figs. 1—8. Van Breemen, 1908, Fig. 172. Candeias, 1926, Pl. 3, Figs. 39—40. Sars, 1903, Pl. 101. Giesbrecht & Schmeil, 1898. Gurney, 1931, Figs. 307—322.
2. *A. longiremis*: Giesbrecht, 1882, Pl. 3, Figs. 7, 21. Giesbrecht, 1892, Pl. 43, Figs. 17, 25; Pl. 30, Fig. 25. Steuer, 1923, Figs. 14—18. Van Breemen, 1908, Fig. 173. Sars, 1903, Pl. 99, 100. Giesbrecht & Schmeil, 1898. Gurney, 1931, Figs. 327, 328.
3. *A. discaudata*: Giesbrecht, 1882, Pl. 3, Figs. 4, 22, 23. Giesbrecht, 1892, Pl. 30, Fig. 24; Pl. 43, Figs. 2, 30. Van Breemen, 1908, Fig. 174. Steuer, 1923, Figs. 31—36. Sars, 1903, Pl. 102. Gurney, 1931, Figs. 323—326.
4. *A. grani*: Sars, 1904, Pl. 1—4 (as *Paracartia*). Van Breemen, 1908, Fig. 179 (as *Paracartia*). Steuer, 1923, Figs. 68—77.
5. *A. bifilosa*: Giesbrecht, 1882, Pl. 2, Fig. 18; Pl. 3, Figs. 6, 18, 20. Giesbrecht, 1892, Pl. 30, Fig. 29; Pl. 43, Fig. 15, p. 23. Steuer, 1923, Figs. 99—101. Giesbrecht & Schmeil, 1898. Gurney, 1931, Figs. 329—344.
6. *A. tonsa*: Giesbrecht, 1892, Pl. 30, Figs. 7, 24, 34; Pl. 43, Figs. 6, 10. Steuer, 1923, Figs. 106—109. Esterly, 1905, Fig. 49. Giesbrecht & Schmeil, 1898.
7. *A. danae*: Giesbrecht, 1892, Pl. 30, Figs. 1, 23; Pl. 43, Fig. 8. Van Breemen, 1908, Fig. 176. Steuer, 1923, Figs. 166—169. Giesbrecht & Schmeil, 1898.

Distribution

Species

Gulf of Bothnia	5
Gulf of Finland	2, 5, 6
Baltic proper	1, 2, 3, 5, 6
Belt Sea	1, 2, 3, 5, 6
Kattegat	1, 2, 3, 5
Skagerak	1, 2, 5
Northern North Sea	1, 2, 3, 5
Southern North Sea	1, 2, 5, 6
English Channel (eastern)	2, 3, 5, 6
English Channel (western)	1, 2, 3, 4
Bristol Channel and Irish Sea	1, 3
South and West Ireland	1, 3
Eastern Atlantic	1, 7
Faeroe Shetland Area	1, 2
Faeroe Iceland Area	1, 2
Norwegian Sea	1, 2, 4
Barents Sea	2

References to Work on Biology.

Candeias (1926), 1, 7; De Lint (1922), 5; Esterly (1924), 6; Farran (1910), 1, 2; Giesbrecht (1882), 2, 3, 5; Gurney (1931), 1, 2, 3, 5; Jespersen (1940), 1, 2, 5; M. B. A. (1931), 1, 3, 4, 5; Remy (1927), 6; Redeke (1934), 6; Ruud (1929), 1, 2; Runnström (1931), 1, 2, 3; Sars (1903), 1, 2, 3, (1904), 4; Smirnov (1935), 6; Steuer (1923), 1, 2, 3, 4, 5, 6, 7; Scott (1911), 5; Van Breemen (1908), 1, 2, 3, 4, 5, 7; Wiiborg (1940), 1, 5; Wilson (1932), 1, 2, 3, 5, 7.

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