COPEPODA
SUB-ORDER: CALANOIDA
Family: Eucalanidae
(By G. P. Farrant, revised by W. Vervoort)
1951.

a, ♀ dorsal; b, ♂ dorsal; c, ♀ head ventral; d, ♀ head dorsal; e, ♀ abdomen dorsal; f, ♀ 5th foot; g, ♂ 5th feet.

(Fig. 2a after Sewell; Figs. 3a, 4a, 5a, e, original; remainder after Giesbrecht).
Family EUCALANIDAE

Body elongate, more or less transparent. Cephalon with two filiform rostral appendages, fused with or separate from 1st thoracic somite. Abdomen 3-segmented or — in some species — 4-segmented; anal segment separate from or fused with furca. 1st feet with 2- or 3-jointed exopods and 1- or 2-jointed endopods. 2nd to 4th feet with both rami 3-jointed; 3rd joints of exopods each with 3 spines on outer edge and 5 setae on inner edge. Female with 5th feet absent or composed of single ramus, found on each side, which may have as much as 5 joints. Males of some species with rudimentary endopods on 5th feet; usually these are uniramous.

Genus EUCALANUS Dana, 1855

Females with 3- or 4-segmented abdomen, last (anal) segment fused with furca. 1st feet each with 3-jointed exopod and 2-jointed endopod. 5th feet absent in female. Males with reduced oral parts; 5th feet uniramous, not natatory, sometimes present on one side of body only.
1. *E. elongatus* (Dana, 1849). Head triangular. Female with 5th thoracic segment terminating into blunt points (in Atlantic form!), genital segment longer than broad, abdomen 4-segmented. Oceanic, surface to deep water.
2. *E. attenuatus* (Dana, 1849). Body slender. Female with triangular head, constricted near the base of 1st antennae. Abdomen 3-segmented, genital segment as wide as long. Male with triangular or rounded head, with distinct constriction.

Genus RHINOCALANUS Dana, 1855

Females with 3-segmented abdomen, anal segment fused with furca. Frontal part of cephalon much produced; cephalon fused with 1st thoracic somite. 1st feet each with 2-jointed exopod and endopod. 5th feet not natatory, uniramous on both sides, 3-jointed. Male with left 5th foot biramous, right 5th foot uniramous.
4. *R. nasutus* Giesbrecht, 1888. Female with much produced, triangular head, which completely hides the rostral filaments.

Genus MEYNOCERA I. C. Thompson, 1888

Cephalon separate from 1st thoracic somite. Females with short, 3-segmented abdomen, anal segment and furca separate. 1st feet each with 3-jointed exopod and 1-jointed endopod. 5th feet uniramous, 5-jointed on both sides. Males unknown.

<table>
<thead>
<tr>
<th>Species</th>
<th>Length in mm.</th>
<th>Head</th>
<th>Abdomen in female</th>
<th>Genital segment in female</th>
<th>Genital segment and furca in female</th>
<th>1st antennae</th>
<th>5th feet in male</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>E. elongatus</em></td>
<td></td>
<td>triangular</td>
<td>4-segmented</td>
<td>longer than wide</td>
<td>fused</td>
<td>as long as or slightly longer than body</td>
<td>both rami 4-jointed, right shorter than left</td>
</tr>
<tr>
<td></td>
<td>♀ 4.4—6.5</td>
<td>♂ 3.6—5.0</td>
<td></td>
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<td></td>
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<tr>
<td><em>E. attenuatus</em></td>
<td></td>
<td>triangular, constricted</td>
<td>3-segmented</td>
<td>as long as wide</td>
<td>fused</td>
<td>as long as or slightly longer than body</td>
<td>right 3-jointed, shorter than 4-jointed left</td>
</tr>
<tr>
<td>♀ 3.5—6.0</td>
<td>♂ 3.0—4.3</td>
<td></td>
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<tr>
<td><em>E. crassus</em></td>
<td></td>
<td>rounded</td>
<td>3-segmented</td>
<td>wider than long, onion-shaped</td>
<td>fused</td>
<td>as long as body</td>
<td>right absent, left 4-jointed</td>
</tr>
<tr>
<td>♀ 2.9—4.0</td>
<td>♂ 2.7—3.5</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>R. nasutus</em></td>
<td></td>
<td>triangular</td>
<td>3-segmented</td>
<td>as wide as long</td>
<td>fused</td>
<td>as long as body</td>
<td>right uniramous, 3-jointed, left 2-jointed endopod, longer than 1-jointed exopod</td>
</tr>
<tr>
<td>♀ 3.8—5.4</td>
<td>♂ 3.5—5.0</td>
<td></td>
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</tr>
</tbody>
</table>
| *M. clausii* | ♀ 0.75—1.2  | ♂ ?        | rounded           | as wide as long, globular | separate | over twice as long as body | unknown | 1908, Figs. 10, 11 (as *E. elongatus* and *E. atlanticus*). With 1915, Pl. 1, Fig. 5, Textfig. 9. *Candela, 1926, Pl. 2, Figs. 1, 2 (as *E. atlanticus*). Sewell, 1929, Fig. 13. Wilson, 1932, Fig. 15. Vervoort, 1946.
References to Work on Biology.


Cleave, P. T., 1900. The Seasonal Distribution of Atlantic Plankton Organisms.


— 1911. idem, Vol. 2.


Giesbrecht, W. & O. Schmeil, 1898. Das Tierreich, Vol. 6, Copepod, 1, Gymnoplex.


