

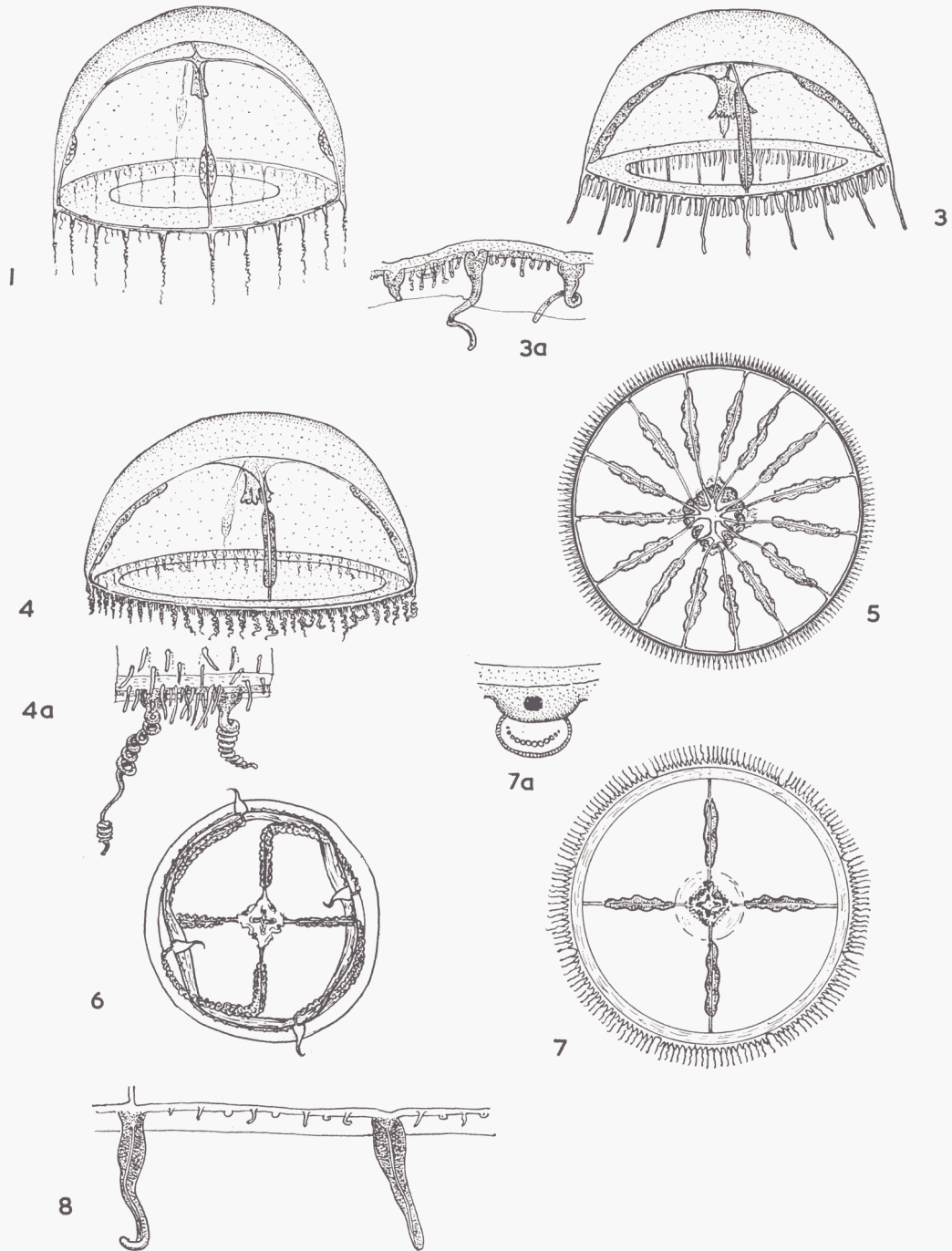
Zooplankton
Sheet 100

HYDROMEDUSAE

Family: Mitrocomidae

(BY F. S. RUSSELL)

1963



1. *Mitrocomella brownei*. — 3. *Mitrocomella polydiademata*; 3a, umbrella margin. — 4. *Cosmetira pilosella*; 4a, umbrella margin. — 5. *Halopsis ocellata*. — 6. *Cyclocanna welshi*. — 7. *Tiaropsis multicirrata*; 7a, ocellus and marginal vesicle. — 8. *Tiaropsidium atlanticum*, umbrella margin.

Family Mitrocomidae

Four, eight, or more simple radial canals; gonads on radial canals separated from stomach; hollow marginal tentacles; with or without marginal cirri; open marginal vesicles; with or without ocelli.

Genus MITROCOMELLA Haeckel:

Four radial canals; with marginal cirri; 8, 12 or 16 marginal vesicles; no ocelli.

1. *Mitrocomella brownei* (Kramp). Gonads oval near distal ends of radial canals; usually 16 marginal tentacles; 6 to 8 marginal cirri between adjacent tentacles; typically 8 marginal vesicles each with 5 to 7 concretions; 4 to 7 mm in diameter.
2. *Mitrocomella fulva* Browne. Doubtful species. Gonads covering $\frac{1}{3}$ of distal ends of radial canals; about 16 marginal tentacles and some small bulbs; about 4 marginal cirri between adjacent tentacles; 16 large marginal vesicles each with 3 to 8 concretions; 6 mm in diameter. (Not figured.)
3. *Mitrocomella polydiademata* (Romanes). Gonads linear, $\frac{2}{3}$ to $\frac{4}{5}$ length of radial canals; 36 to 48 marginal tentacles; 5 to 9 or more marginal cirri between adjacent tentacles; 16 marginal vesicles each with about 20 or more concretions; 12 to 30 mm in diameter.

Genus COSMETIRA Forbes:

Four radial canals; with marginal cirri, older cirri extending up exumbrella surface; 8 marginal vesicles; no ocelli.

4. *Cosmetira pilosella* Forbes. Gonads linear, $\frac{1}{2}$ to $\frac{3}{4}$ length of radial canals; 64 to 100 marginal tentacles; 6 to 100 marginal cirri between adjacent tentacles; 8 marginal vesicles each with 12 or more concretions; up to 48 mm in diameter.

Genus HALOPSIS A. Agassiz:

More than 8 radial canals; with marginal cirri; with many marginal vesicles; no ocelli.

5. *Halopsis ocellata* A. Agassiz. 12 to 16 radial canals in four groups; gonads linear, $\frac{2}{3}$ length of radial canals; up to 450 or more marginal tentacles; usually one marginal cirrus between adjacent tentacles; about 80 marginal vesicles each with many concretions; up to 70 mm in diameter.

Genus CYCLOCANNA Bigelow:

Four radial canals each bent like an S; with large and rudimentary tentacles; no marginal cirri; no ocelli.

6. *Cyclocanna welshi* Bigelow. Four long and about 80 rudimentary marginal tentacles; up to 68 mm in diameter.

Genus TIAROPSIS Agassiz:

Four radial canals; one kind of marginal tentacle; no marginal cirri; 8 marginal vesicles; with ocelli.

7. *Tiaropsis multicirrata* (M. Sars). Gonads linear, along middle $\frac{1}{2}$ to $\frac{2}{3}$ of radial canals; 200 or more marginal tentacles; 20 mm in diameter.

Genus TIAROPSISIDIUM Torrey:

Four radial canals; large and small marginal tentacles; no marginal cirri; 8, 16 or 48 marginal vesicles; with ocelli.

8. *Tiaropsidium atlanticum* Russell. Gonads linear, along middle $\frac{3}{4}$ of radial canals; probably 24 large and 72 small marginal tentacles. probably 48 marginal vesicles each with 12 to 20 concretions; 60 mm in diameter; black pigment on stomach and large marginal tentacles;

Further Information on Identification

1. *Mitrocomella browni*: KRAMP, 1930, p. 23, Figs. 9–11 (as *Trissocoma*). KRAMP, 1932, p. 341, Textfigs. 9, 37. RUSSELL, 1953, p. 261, Textfigs. 150–155; Pl. XV, Fig. 4. KRAMP, 1959, p. 142, Fig. 169. KRAMP, 1961, p. 155.
2. *Mitrocomella fulva*: BROWNE, 1903, p. 17, Pl. I, Fig. 3; Pl. III, Figs. 1 and 2.
3. *Mitrocomella polydiademata*: KRAMP, 1932, p. 346, Textfigs. 3, 5, 11, 18, 29, 30, 40; Pl. X, Figs. 3, 4. RUSSELL, 1953, p. 257, Textfigs. 147–149. KRAMP, 1961, p. 156.
4. *Cosmetira pilosella*: KRAMP, 1932, p. 356, Textfigs. 7, 8, 10, 13, 16, 17, 25–7, 44, (p. 358 and Fig. 45, as *C. megalotis*). RUSSELL, 1953, p. 266, Textfigs. 156–161, Pl. XV, Figs. 1–3. KRAMP, 1959, p. 144, Fig. 175. KRAMP, 1961, p. 151.
5. *Halopsis ocellata*: KRAMP, 1919, p. 65, Textfigs. 6–9; Pl. IV, Figs. 1–5. KRAMP, 1920, p. 10, Textfigs. 1–6. KRAMP, 1932, p. 353, Textfigs. 6, 12, 19, 28, 32, 43. RUSSELL, 1953, p. 273, Textfigs. 162–166; Pl. XIV, Fig. 4. KRAMP, 1959, p. 143, Fig. 174. KRAMP, 1961, p. 153.
6. *Cyclocanna welshi*: BIGELOW, 1918, p. 383, Pl. 3, Figs. 2–5. KRAMP, 1926, p. 245, Fig. 1. KRAMP, 1959, p. 144, Fig. 177. KRAMP, 1961, p. 152.
7. *Tiaropsis multicirrata*: KRAMP, 1919, p. 77, Textfigs. 11–14; Pl. 4, Figs. 6–10. KRAMP, 1932, p. 364, Figs. 14, 15, 20, 35, 48. RUSSELL, 1953, p. 278, Textfigs. 167–171; Pl. XVII, Fig. 1. KRAMP, 1959, p. 145, Fig. 178. KRAMP, 1961, p. 159.
8. *Tiaropsidium atlanticum*: RUSSELL, 1956, p. 494, Figs. 2, 3. KRAMP, 1959, p. 145, Fig. 180. KRAMP, 1961, p. 158.

Distribution

Species

| | |
|---|---------------|
| Gulf of Bothnia..... | — |
| Gulf of Finland..... | — |
| Baltic proper..... | — |
| Belt Sea..... | 7 |
| Kattegat..... | 3, 4, 7 |
| Skagerak..... | 3, 4, 6 |
| Northern North Sea..... | 3, 4, 5, 7 |
| Southern North Sea..... | 1, 3, 4, 7 |
| English Channel (eastern)... | 4 |
| English Channel (western)... | 1, 4, 7 |
| Bristol Channel and Irish Sea | 1, 3, 7 |
| South and West Ireland and Atlantic..... | 1, 4, 5, 7, 8 |
| Faroe-Shetland Area..... | 3, 4, 5 |
| Faroe-Iceland Area..... | 5, 7 |
| Norwegian Sea..... | 2, 3, 4, 5, 6 |
| Barents Sea..... | 3, 7 |
| Greenland..... | 3, 5, 7 |

References to Work on Biology

(Numbers after references give species referred to)
 KRAMP & DAMAS (1925), 5. RUSSELL (1953), 1, 3, 4, 7.

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