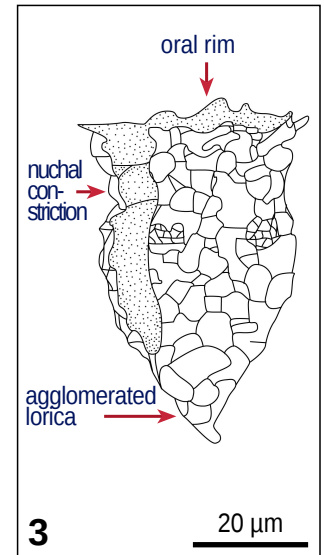
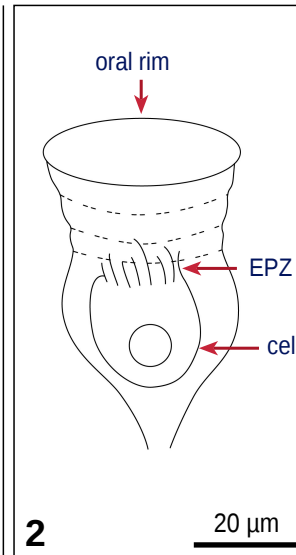
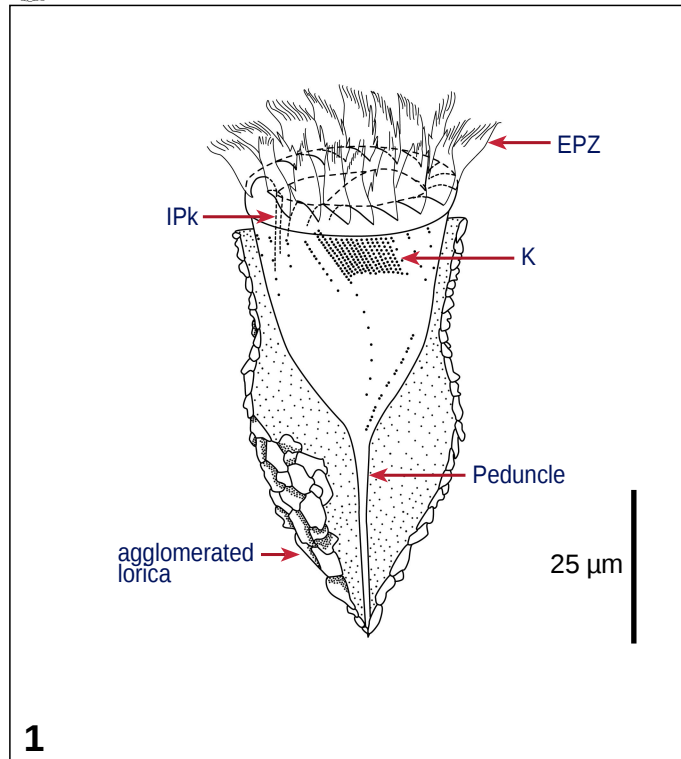


Tintinnopsis baltica Brandt, 1896



Key features

Lorica anterior slightly obconical, posterior conical, flaring mouth, nuchal constriction, slightly inflated bowl, oral rim irregular, pointed aboral end; 12-17 EPks and 5 IPks; 2 macronuclei, ovoidal, 2 globular micronuclei

Measurements

Length (lorica): 60 (40-110) µm
Oral diameter (lorica): 37 (30-50) µm
No of EPk: 12-17
No of IPk: 5
Ma diameter: 8 x 5 (7-12 x 3-7) µm
Biovolume: ? µm³

Movement

-

Food

-

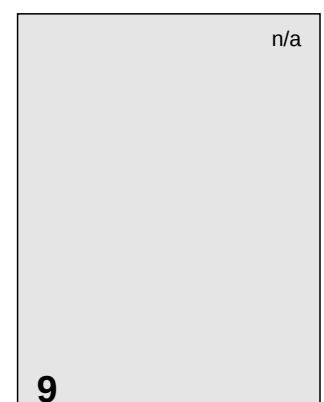
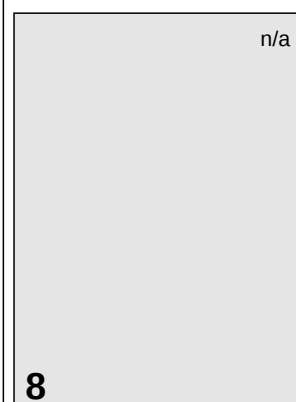
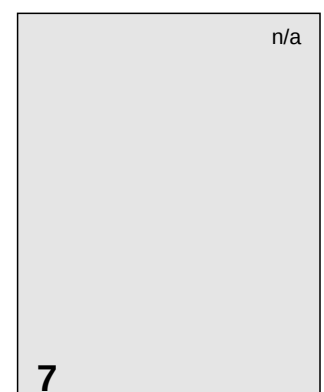
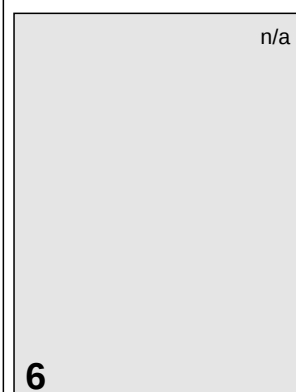
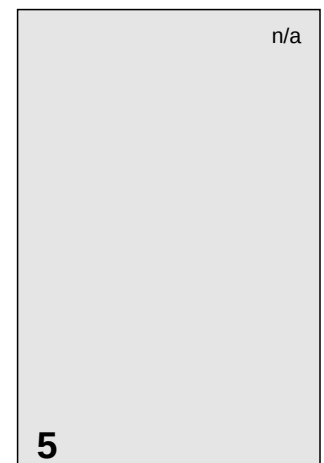
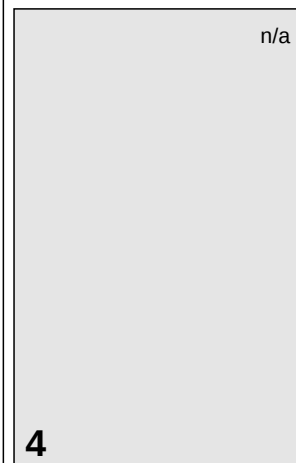
Ecological data

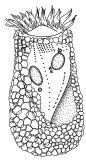
Temperature: -
Salinity: -

References

Brownlee DC (unpubl.-a); Kofoid CA & Campbell SA 1929; Laval-Peuto M & Brownlee DC 1986; Marshall SM 1969

Fig 1-3 Schematic drawings of different lorica morphologies: 1. After Laval-Peuto & Brownlee 1986; 2. Original drawing of *Tintinnopsis baltica* (after Möbius, 1887); 3. After Kofoid & Campbell 1929. (**Fig 4,5** Lugol's fixed cells. **Fig 6** Lugol's fixed and DAPI stained cell, illustrating shape and location of the macronuclei.)





Tintinnopsis baltica Brandt, 1896

Species description

Lorica anterior slightly obconical, posterior conical, 60 (40-110) μm long, oral diameter 37 (30-50) μm ; agglomerated; **flaring oral rim, irregular,** diameter 37 (33-42 μm); **nuchal constriction,** diameter 30 (22-35) μm ; **slightly inflated bowl,** maximum diameter 35 (30-45) μm ; **pointed aboral end** (Fig 1-3); peduncle attaches cell to posterior end of lorica (Fig 1).

Oral cavity acentric, prominent oral lobe on ventral side of peristomial wall, **12-17 EPks and 5 IPks**, paroral membrane extends into cytostome-cytopharynx complex (Fig 1,10).

30-34 somatic kineties: 6-9 somatic kineties in the left field, 21-24 somatic kineties in the right field; one ventral kinety, anterior cilia longer than posterior ones; K2 begins posterior to anterior end of ventral kinety; one dorsal kinety with 15-22 dikinetids - only each posterior kinetosome ciliated; posterior kinety with 8-10 dikinetids (Fig 10).

Two ovoidal macronuclei, 8 x 5 (7-12 x 3-7) μm , **two globular micronuclei,** 2 μm across (Fig 10).

Similar species

Tintinnopsis fimbriata (bowl rounder and wider, collar more flaring but shorter), *T. meunieri* (bowl rounder, with stout pedicel), *T. nitida* (posteriorly broadly rounded, anteriorly cylindroidal, that is, without constriction), *T. strigosa* (lorica more cylindroidal), *T. vasculum* (oral rim not flaring, anterior part more cylindrical, aborally bluntly pointed).

List of synonyms

1887 *Codonella orthoceras* Haeckel, 1873 *sensu* Möbius Ber Komm Wiss Unters Deutsch Meere, Kiel 5: 119-121, Pl 8, Fig 33.

- was affiliated with: *Leprotintinnus*, *Ptychocylis*, *Tintinnopsis*, for further synonyms and details see Kofoed & Campbell (1929).

Taxonomical remarks

Highly variable lorica morphology.

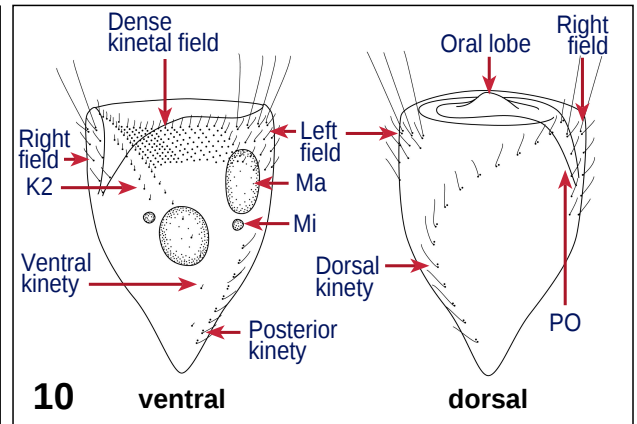


Fig 10 Infraciliature of *Tintinnopsis baltica* (from Brownlee unpubl.)

Notes