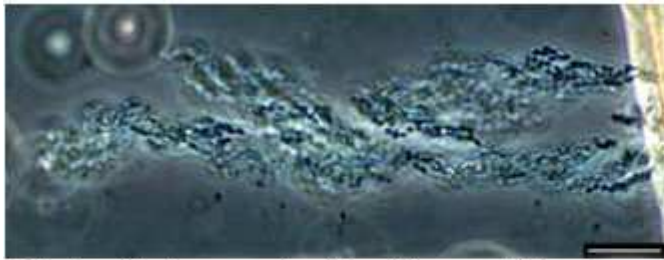


# Images of the Baltic Sea phytoplankton

## DIVISION CYANOPHYTA (CYANOBACTERIA)

### Class Nostocophyceae (Cyanophyceae) – Blue-green algae



Colonies of the blue-green alga *Aphanothece parallelliformis*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.



Colonies of the blue-green alga *Merismopedia tenuissima*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.



Trichomes of the blue-green alga *Aphanizomenon flos-aquae*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



The blue-green alga *Nodularia spumigena*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



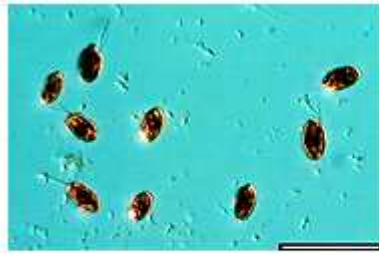
The blue-green alga *Anabaena flos-aquae*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.



The blue-green alga *Anabaena lemmermannii*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.

## DIVISION CRYPTOPHYTA

### Class Cryptophyceae – Recoiling algae



The recoiling alga *Rhodomonas salina*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



The recoiling alga  
*Teleaulax amphioxeia*.  
Photo Seija Hällfors.

## DIVISION DINOPHYTA (PYRRHOPHYTA)

### Class Dinophyceae – Dinoflagellates



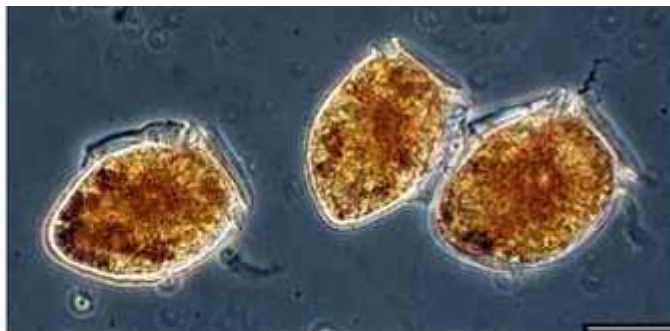
The dinoflagellate *Prorocentrum minimum*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



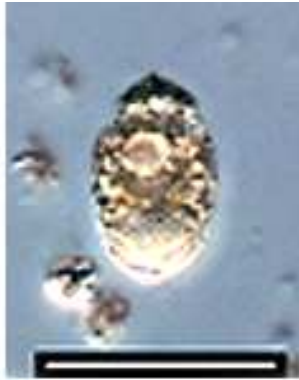
The dinoflagellate *Prorocentrum micans*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



Two cells of the dinoflagellate  
*Dinophysis acuminata*. Scale bar  
30  $\mu\text{m}$ . Photo Seija Hällfors.



Three cells of the dinoflagellate *Dinophysis norvegica*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



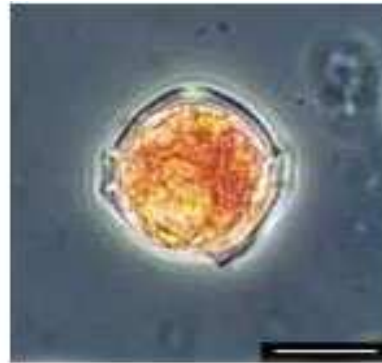
The dinoflagellate *Amphidinium crassum*.  
Photo Seija Hällfors.



Two cells of the dinoflagellate *Amphidinium sphenoides*. Scale bar 30  $\mu\text{m}$ .  
Photo Heidi Hällfors.



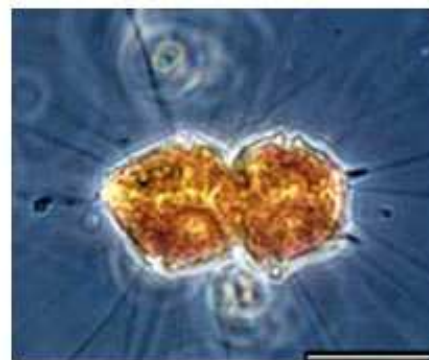
Cells of the dinoflagellate *Heterocapsa triquetra*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



The dinoflagellate *Obblea rotunda*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.



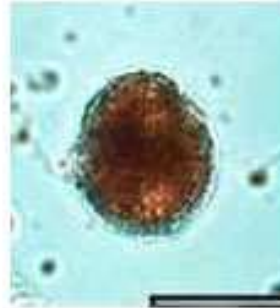
Two cells of the dinoflagellate *Amylax triacantha*.  
Scale bar 15  $\mu\text{m}$ . Photo Seija Hällfors.



A chain of two cells of the dinoflagellate *Peridiniella catenata*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



A cyst of the dinoflagellate *Pyrophacus horologicum*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



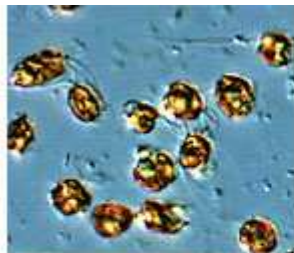
The dinoflagellate *Protoceratium reticulatum*. Scale bar 15  $\mu\text{m}$ .  
Photo Seija Hällfors.



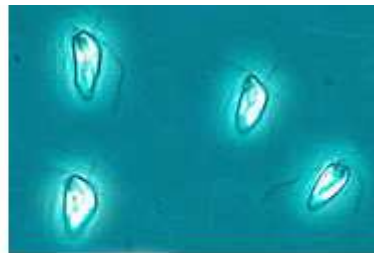
The dinoflagellate *Ceratium tripos*.  
Scale bar 60  $\mu\text{m}$ . Photo Seija Hällfors

## DIVISION HAPTOPHYTA

### Class Prymnesiophyceae (Haptophyceae) – Haptophyte algae



The haptophyte *Chrysocromulina birgeri*. Photo Seija Hällfors.



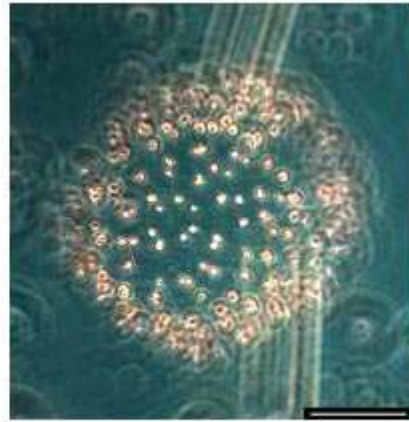
The haptophyte *Prymnesium parvum*.  
Photo Seija Hällfors.

## DIVISION CHRYSOPHYTA (HETEROKONTOPHYTA)

### Class Chrysophyceae – Golden-brown algae

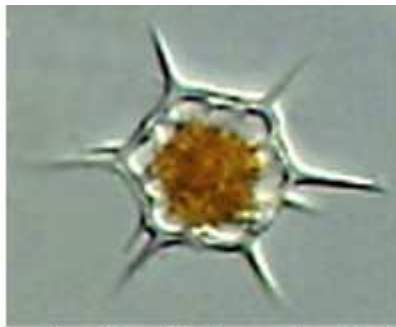


Part of a colony of the golden-brown alga *Dinobryon balticum*. Scale bar 30 µm. Photo Seija Hällfors.

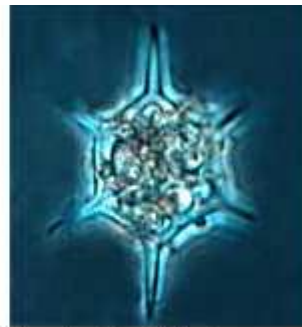


A colony of the golden-brown alga *Urologena americana*. Scale bar 60 µm. Photo Seija Hällfors.

### Class Dictyochophyceae – Golden-brown algae with external silicious skeleton



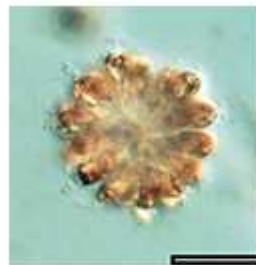
Two cells of the golden-brown alga with external silicious skeleton *Dictyocha speculum*. Photo Seija Hällfors.



### Class Synurophyceae – Golden-brown algae with silicious



A cell of the synurophyte *Mallomonas* sp. *tonsurata*-group. Scale bar 30 µm. Photo Seija Hällfors.



The golden-brown alga *Synura petersenii*. Scale bar 30 µm. Photo Seija Hällfors.

scales

**Class  
Diatoms**

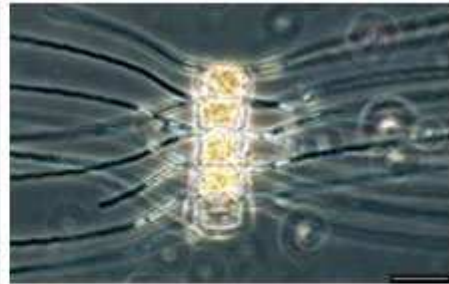
**Diatomophyceae**

**(Bacillariophyceae)**

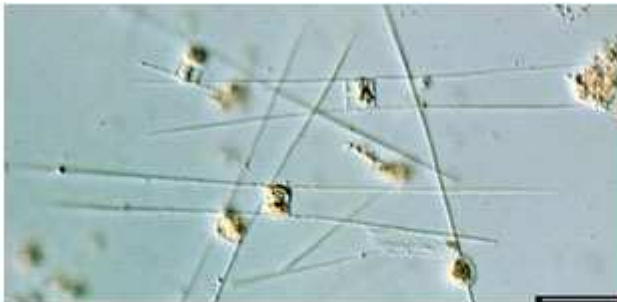
—



The diatom *Chaetoceros danicus*.  
Scale bar 30 µm . Photo Seija Hällfors.



The diatom *Chaetoceros impressus*.  
Scale bar 30 µm . Photo Seija Hällfors.



The diatom *Chaetoceros similis*. Scale bar 30 µm .  
Photo Seija Hällfors.



The diatom *Chaetoceros wighamii*.  
Scale bar 30 µm . Photo Seija Hällfors.



The diatom *Melosira arctica*. Scale bar 30 µm .  
Photo Seija Hällfors.



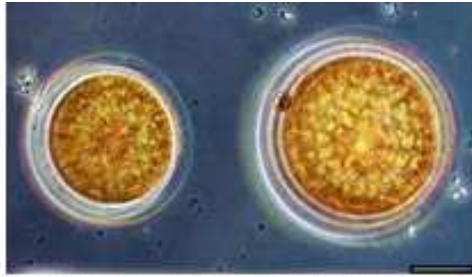
The diatom *Cycloella choctawhatcheeana*.  
Scale bar 30 µm . Photo Seija Hällfors.



Four cells of the diatom *Thalassiosira baltica*.  
Scale bar 30 µm . Photo Seija Hällfors.



The diatom *Thalassiosira levanderi*. Scale bar 30 µm .  
Photo Seija Hällfors.



Two cells of the diatom *Coscinodiscus granii*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



A chain of cells of the diatom *Thalassiosira nordenskiöldii*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



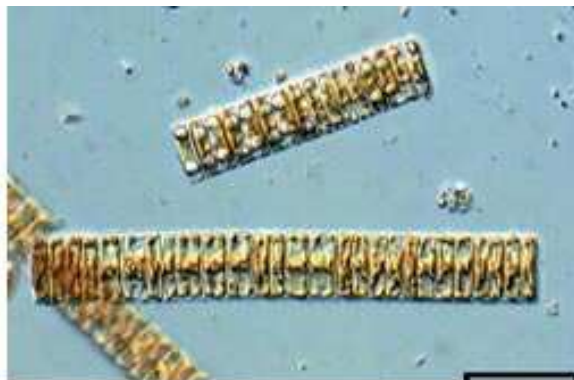
The diatom *Thalassionema nitzschoides*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



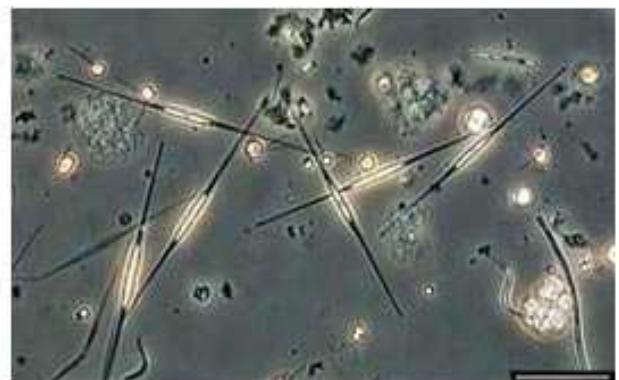
Cells of the diatom *Nitzschia paleacea*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



Part of a chain of cells of the diatom *Pseudo-nitzschia* sp.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



The diatom *Achnanthes taeniata*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.



Cells of the diatom *Cylindrotheca closterium*.  
Scale bar 30  $\mu\text{m}$ . Photo Seija Hällfors.

Class **Raphidophyceae** (Chloromonadophyceae) –



The raphidophyte *Gonyostomon semen.*  
Scale bar 30 µm.  
Photo Seija Hällfors.

**Raphidephytes**

## DIVISION EUGLENOPHYTA

Class **Euglenophyceae** –  
**Euglenoids**



The euglenophyte *Eutreptiella gymnastica.* Scale bar 30 µm.  
Photo Seija Hällfors.



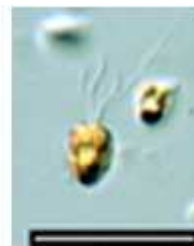
The heterotrophic euglenophyte *Anisonema prosgeobium.*  
Scale bar 30 µm.  
Photo Seija Hällfors.

## DIVISION CHLOROPHYTA

Class **Prasinophyceae (Micromonadophyceae)** –



The prasinophyte *Cymbomonas tetramitiformis.*  
Scale bar 15 µm.  
Photo Seija Hällfors.



The prasinophyte *Pyramimonas* sp.  
Scale bar 30 µm.  
Photo Seija Hällfors.

**Prasinophytes**



## Class Chlorophyceae – Green algae



Cells of the green alga *Monoraphidium contortum*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



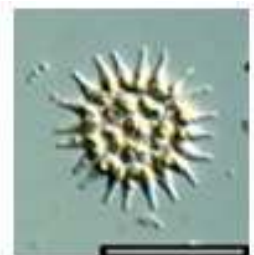
The green alga *Planctonema lauterbornii*. Scale bar 15  $\mu\text{m}$ .  
Photo Seija Hällfors.



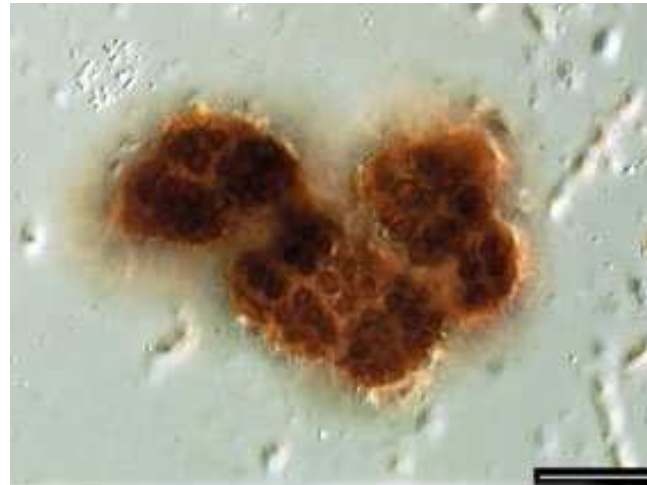
The green alga *Scenedesmus* cf. *acuminatus*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



The green alga *Dictyosphaerium tetrachotomum*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



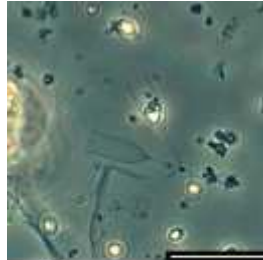
The green alga *Pediastrum boryanum*. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.



The green alga *Botryococcus* sp. Scale bar 30  $\mu\text{m}$ .  
Photo Seija Hällfors.

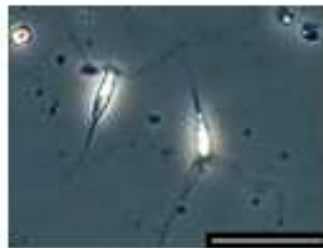
## VARIOUS NON-PHOTOSYNTHETIC PROTIST GROUPS

### Class Bicosoecida



*Bicosoeca* sp.  
Scale bar 30  $\mu$ m.  
Photo Seija Hällfors.

### Class Choanoflagellidea



*Calliacantha natans*.  
Scale bar 30  $\mu$ m.  
Photo Seija Hällfors.



*Diaphanoeca sphaerica*.  
Scale bar 30  $\mu$ m.  
Photo Seija Hällfors.

### Class Eбриidea



*Ebria tripartita*. Scale bar 30  $\mu$ m.  
Photo Seija Hällfors.

Photos and additional information **Seija Hällfors**

Technical implementation **Maiju Koivula**

updated 28.7.2008 30/11/2004,

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