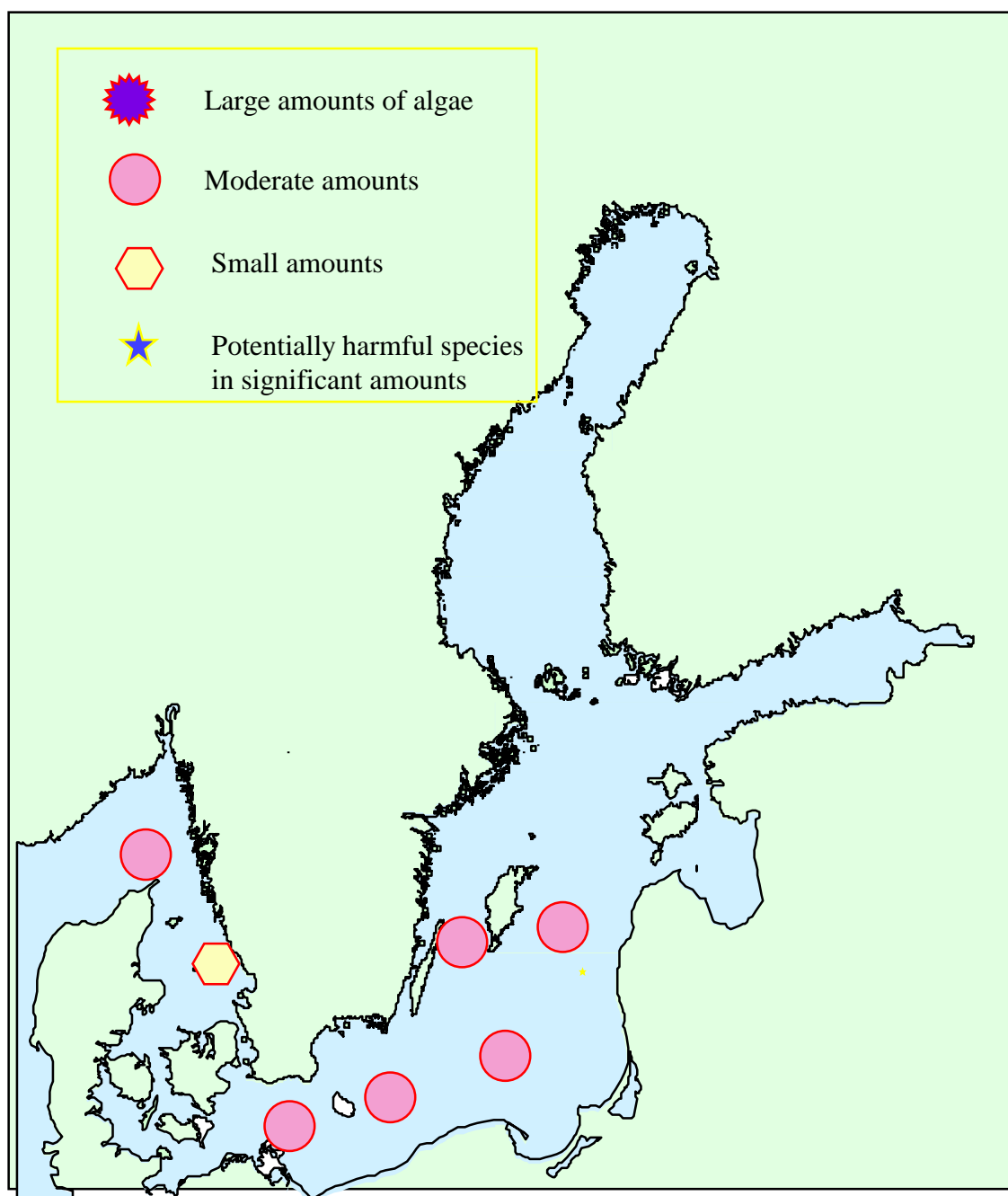


OVERVIEW





Oceanografiska Enheten
Lars Edler

No 7, 2000, 2 – 6 OCTOBER

AlgAware

ALGAL SITUATION IN SWEDISH MARINE WATERS

DETAILS

* POTENTIALLY HARMFUL SPECIES

Sampling in the Skagerrak, the Kattegat and the Baltic Sea

SKAGERRAK

Station Å17, 2 OCTOBER

Chlorophyll in the upper 10 meters about 3 mg/m³.
Small **flagellates**, including **Cryptophyceans** dominated. **Ceratium** species relatively common.
Diatoms of the genera **Chaetoceros**, **Cerataulina**, **Leptocylindrus**, **Pseudo-nitzschia**, **Proboscia**, **Rhizosolenia** and **Thalassiosira** present. Small amounts of the potentially toxic dinoflagellates **Dinophysis acuta*** and **Gymnodinium mikimotoii***.

Top 5

Monads and Flagellates

Cerataulina pelagica

Cryptophyceans

Chaetoceros subtilis

Guinardia delicatula

KATTEGAT

Station Anholt E, 3 OCTOBER

Chlorophyll in the upper 10 meters about 2 mg/m³.
Small **flagellates** and cryptophyceans, dominated. Among dinoflagellates, **Ceratium fusus** was the most common, but other **Ceratium** species also present. Diatoms common with a complete dominance of **Cerataulina pelagica**, about 0.5 million cells/l. The genera **Chaetoceros**, **Leptocylindrus**, **Pseudo-nitzschia**, **Proboscia** and **Rhizosolenia** also present. density of **Proboscia alata**. Small amounts of the potentially toxic genera **Dinophysis** *.

Top 5

Small flagellates

Cerataulina pelagica

Pseudo-nitzschia pungens

Cryptophyceans

Chrysochromulina spp.



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BALTIC SEA

Arkona basin. Station BY2, 4 OCTOBER

Chlorophyll in the upper 10 meters about 2 mg/m³.

Cryptophyceans, with *Teleaulax* sp. and *Plagioselmis* sp. dominated with about 250 000 cells/l. Other small speceis like *Pyramimonas* sp., *Chrysochromulina* spp.* and *Heterocapsa rotundata* also common. Larger speceis, i.e. *Aphanizomenon* sp. ("baltica"), *Nodularia spumigena**, *Dinophysis acuminata**, *Chaetoceros impressus* and *Coscinodiscus commutatus* present in very small amounts.

Top 5

Teleaulax sp.

Plagioselmis sp.

Pyramimonas spp.

Chrysochromulina spp.*

Heterocapsa rotundata

Bornholm basin. Station BY5, 30 AUGUST

Chlorophyll in the upper 10 meters 2-3 mg/m³.

Very similar to BY2, with the addition of small amounts of *Actinocyclus octonarius* and *Coscinodiscus granii*.

Top 5

Plagioselmis spp.

Teleaulax sp.

Pyramimonas spp.

Chrysochromulina spp.*

Heterocapsa rotundata

Southeast Baltic, Station BCS III 10, 4 OCTOBER

Chlorophyll in the upper 10 meters about 2 mg/m³.

Very similar to BY5, but somewhat more species. Diatoms like *Skeletonema costatum*, *Thalassiosira* sp., *Chaetoceros danicus*, *C. impressus* and *Cyclotella* sp. present in small amounts. Few colonies of the blue-green *Woronichinia* spp. and single cells of *Dinophysis acuminata**.

Top 5

Pyramimonas spp.

Thalassiosira sp.

Plagioselmis sp.

Teleaulax spp.



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Heterocapsa rotundata

Eastern Gotland basin, Station BY15, 5 OCTOBER

Chlorophyll in the upper 10 meters about 2 mg/m³.
Similar to BCS III 10, but poorer. Dominance of small flagellates and a few large diatoms.

Top 5

Pyramimonas spp.

Plagioselmis spp.

Teleaulax spp.

Heterocapsa rotundata

Chaetoceros impressus

Western Gotland basin, Station BY38, 31 AUGUST

Chlorophyll in the upper 10 meters about 2 mg/m³.
Similar to BY15. Again dominance of small flagellates and a few large diatoms. Single filaments of Aphanizomenon sp. ("baltica") observed.

Top 5

Plagioselmis spp.

Pyramimonas spp.

Chrysochromulina spp.*

Teleaulax spp.

Eutreptiella sp.

This report is based on quantitative samples between 0 and 10 m. Chlorophyll values are rough estimates by the fluorescence profiling.

FORECAST

The flora is turning to an autumn. Harmful algae may develop in the Skagerrak-Kattegat. In the Baltic harmful blooms are not likely to develop.

AlgAware

**ALGAL SITUATION
IN SWEDISH MARINE
WATERS**