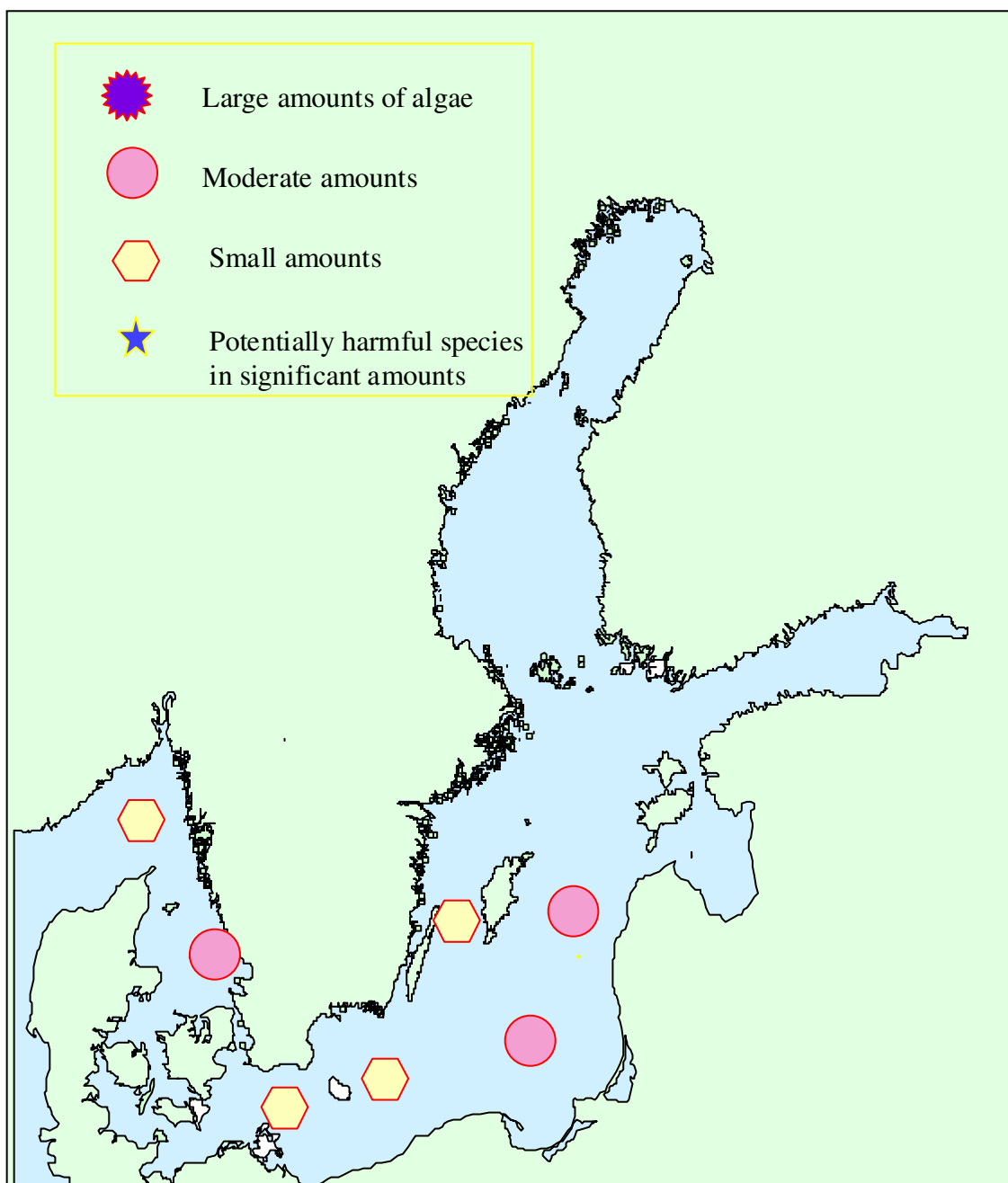


## **ALGAL SITUATION IN SWEDISH MARINE WATERS**

### **No 3, 2000, 13-17 JUNE**

### **OVERVIEW**

**Sampling in the Skagerrak, the Kattegat and the Baltic Sea**



## ALGAL SITUATION IN SWEDISH MARINE WATERS

### No 3, 2000, 13-17 JUNE

#### DETAILS

\* POTENTIALLY HARMFUL SPECIES

#### Sampling in the Skagerrak, the Kattegat and the Baltic Sea

##### SKAGERRAK

###### Station Å17, 17 June

Poor plankton flora. Chlorophyll in the upper 10 meters 1-2 mg/m<sup>3</sup>.

Several species of diatoms, with a dominance of *Cerataulina pelagica* and *Dactyliosolen fragilissimus*.

Among dinoflagellates *Ceratians* most common. Small amounts of *Dinophysis acuminata*\*, *D. norvegica*\* and *Chrysochromulina spp.*\*

Top 5

*Cerataulina pelagica*

*Dactyliosolen fragilissimus*

*Chrysochromulina sp.*\*

*Ceratium tripos*

*Ceratium longipes*

##### KATTEGAT

###### Station Anholt E, 13 June

Rich species composition, but relatively low abundances. Chlorophyll in the upper 10 meters about 1-3 mg/m<sup>3</sup>.

*Cerataulina pelagica* and *Proboscia alata* dominated among diatoms. *Ceratians* common. Small dinoflagellates, eg. *Scrippsiella spp.* and *Gymnodinium simplex* present. Small amounts of *Dinophysis acuminata*\*, *D. norvegica*\* and *Chrysochromulina spp.*\*

Top 5

*Cerataulina pelagica*

*Dactyliosolen fragilissimus*

*Chrysochromulina sp.*\*

*Scrippsiella spp.*

*Ceratium tripos*

###### Station Anholt E, 16 June

Chlorophyll in the upper 10 meters 2-3 mg/m<sup>3</sup>.

Similar species composition as three days earlier, but now with a dominance of *Dactyliosolen fragilissimus* and *Proboscia alata*.

Top 5

*Dactyliosolen fragilissimus*

*Proboscia alata*

*Cerataulina pelagica*

*Chrysochromulina* sp.\*

*Scrippsiella* spp.

## **BALTIC SEA**

### **Arkona basin. Station BY2, 13 June**

Poor plankton flora. Chlorophyll in the upper 10 meters 1.5-2.5 mg/m<sup>3</sup>.

*Aphanizomenon* sp. together with *Planktonema lauterbornii* dominated. A few filaments of *Nodularia spumigena*\*. Small amounts of *Chaetoceros danicus*.

Top 3

*Aphanizomenon* sp.

*Planktonema lauterbornii*

*Chaetoceros danicus*

### **Bornholm basin. Station BY5, 14 June**

Relatively poor plankton flora. Chlorophyll in the upper 10 meters 2-3 mg/m<sup>3</sup>.

Similar to Arkona basin, with the addition of small amounts of *Dinophysis acuminata*\*, *D. norvegica*\* and *Thalassiosira baltica*.

Top 5

*Aphanizomenon* sp.

*Planktonema lauterbornii*

*Chaetoceros danicus*

*Dinophysis acuminata*

*Dinophysis norvegica*

### **Southeast Baltic, Station BCS III 10, 14 June**

Chlorophyll in the upper 10 meters 2-3 mg/m<sup>3</sup>.

*Aphanizomenon* sp. and *Nodularia spumigena* relatively common. Among dinoflagellates *Scrippsiella hangoei*, *Dinophysis acuminata*\*, *D. norvegica*\*, *Phalacrocoma rotundatum*\* and *Peridiniella catenata* were the most abundant. A few diatoms present; *Actinocyclus octonarius* and *Chaetoceros danicus*.

Top 5

*Aphanizomenon* sp.

*Scrippsiella hangoei*

*Nodularia spumigena*\*

*Dinophysis acuminata*\*

*Dinophysis norvegica*\*

**Eastern Gotland basin, Station BY15, 14 June**

Chlorophyll in the upper 10 meters about 2 mg/m<sup>3</sup>.

*Aphanizomenon* sp. and *Nodularia spumigena* relatively common. *Dinophysis acuminata*\* and *D. norvegica*\* were present in much higher numbers here. Also *Scrippsiella hangoei* relatively common. *Actinocyclus octonarius*, *Chaetoceros danicus* and *Thalassiosira* sp. present.

Top 5

*Dinophysis acuminata*\*

*Dinophysis norvegica*\*

*Scrippsiella hangoei*

*Aphanizomenon* sp.

*Nodularia spumigena*\*

**Western Gotland basin, Station BY38, 15 June**

Poor plankton flora. Chlorophyll in the upper 10 meters about 2 mg/m<sup>3</sup>.

*Aphanizomenon* sp. and *Nodularia spumigena* present in small amounts. *Dinophysis acuminata*\* common and *D. norvegica*\* and *Scrippsiella hangoei* also present. Few specimens of *Chaetoceros danicus* present.

Top 5

*Aphanizomenon* sp.

*Dinophysis acuminata*\*

*Nodularia spumigena*\*

*Scrippsiella hangoei*

*Dinophysis norvegica*\*

This report is based on qualitative samples between 0 and 10 m. Chlorophyll values are rough estimates based on profiles of fluorescence.

**FORECAST**

Phytoplankton composition is changing into summer situation. Continuous sunny and calm weather will stimulate the development of blooms in both the Skagerrak-Kattegat area and the Baltic proper.