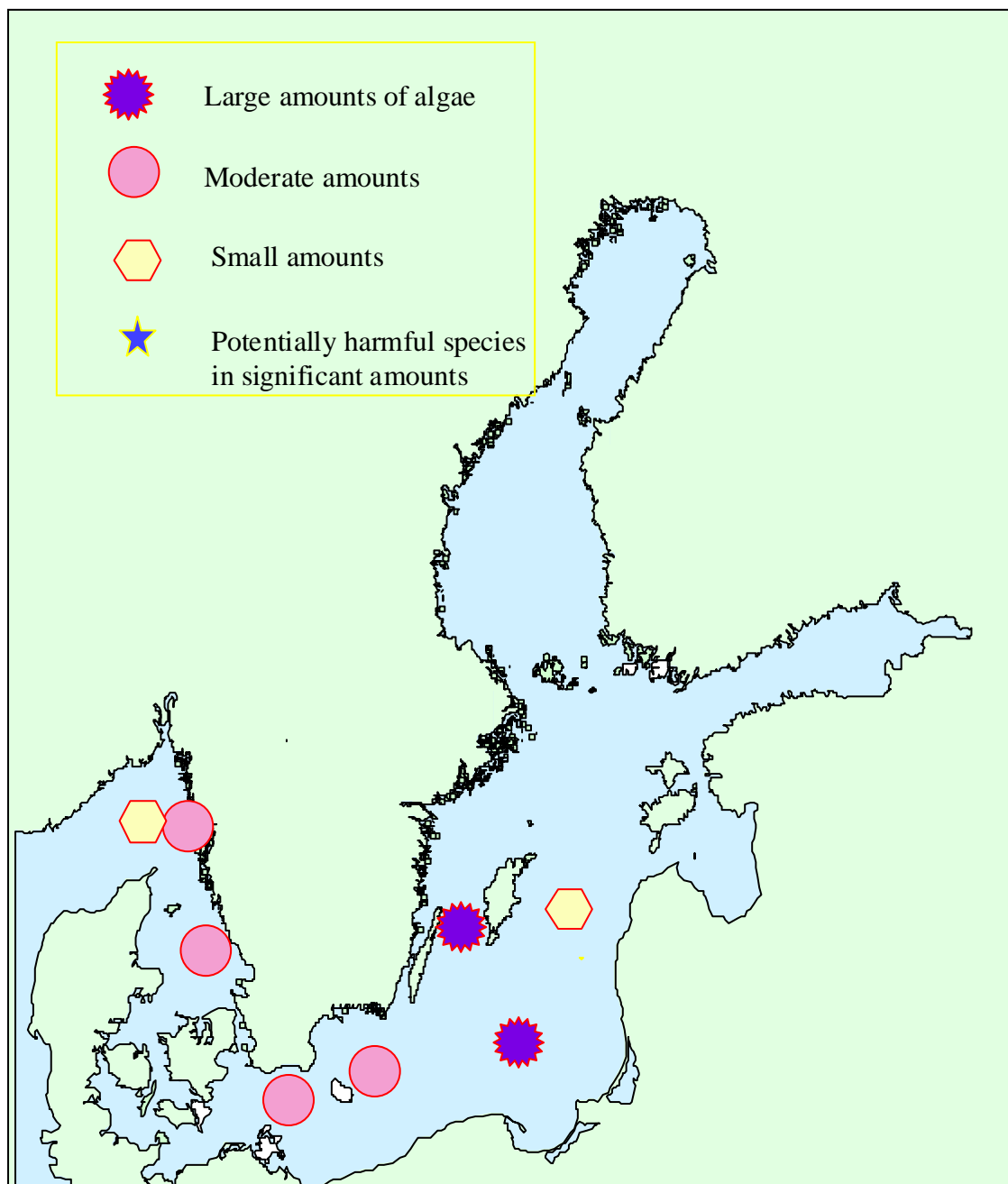


## **ALGAL SITUATION IN SWEDISH MARINE WATERS**

### **No 1, 2000, 25-29 APRIL**

### **OVERVIEW**

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



## ALGAL SITUATION IN SWEDISH MARINE WATERS

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#### DETAILS

\* POTENTIALLY HARMFUL SPECIES

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

##### SKAGERRAK

###### Station Å17, 25 April

Mixed flora of diatoms and dinoflagellates. *Ceratium furca*, *C. longipes*, *Dinophysis acuminata*\* and *D. norvegica*\* relatively common. Among diatoms *Coscinodiscus concinnus*, *Guinardia delicatula* and *Chaetoceros danicus* were the most common.

###### Station Släggö, 25 April

Rich flora of diatoms and dinoflagellates. *Ceratium fusus*, *C. longipes*, *C. tripos* *Dinophysis acuminata*\* and *D. norvegica*\* were common. Single cells of *Alexandrium* sp.\* were found. *Protooperidinium* spp. common. Among diatoms *Coscinodiscus concinnus*, *Guinardia delicatula* and *Chaetoceros danicus* were common. Other diatoms present were *Skeletonema costatum*, *Thalassiosira angulata* and *Thalassionema nitzschioides*.

##### KATTEGAT

###### Station Anholt E, 26 April

Rich flora of diatoms and dinoflagellates. *Ceratium fusus*, *C. longipes*, *C. tripos* *Dinophysis acuminata*\*, *D. norvegica*\* and *Protooperidinium* spp. were common. Among diatoms *Coscinodiscus concinnus*, *Guinardia delicatula* and *Chaetoceros danicus* were common. Other diatoms present were *Skeletonema costatum* and *Thalassionema nitzschioides*. Small amounts of *Dinobryon balticum*.

###### Station Anholt E, 29 April

A considerable development of the plankton flora since the 26<sup>th</sup> of April. *Ceratium fusus*, *C. longipes*, *C. tripos*, *Dinophysis acuminata*\*, *D. norvegica*\* and *Protooperidinium* spp. were still common. Single cells of *Alexandrium* sp.\* were found. *Peridiniella catenata*, *Phalacrochroma rotundatum* and *Amylax triacantha* were also seen. Among diatoms *Coscinodiscus concinnus*, *Guinardia delicatula* and *Chaetoceros danicus* were common. Single cells of *Actinocyclus octonarius* and the presence of *Peridiniella* indicated the supply of Baltic water. *Dinobryon balticum* was very common.

## **BALTIC SEA**

### **Arkona basin. Station BY2, 26 April**

Rich plankton flora dominated by *Peridiniella catenata*. *Dinophysis acuminata*\*, *D. norvegica*\*, *Heterocapsa rotundatum*, *Amylax triacantha* and *Scrippsiella hangoei* also present. Small amounts of the diatoms *Actinocyclus octonarius*, *Chaetoceros impressus*, *C. similis*, *C. wighamii*, *C. holsaticus* and *Skeletonema costatum*. *Aphanizomenon* sp. and *Dinobryon balticum* were relatively common.

### **Bornholm basin. Station BY5, 27 April**

Very similar to Arkona basin

### **Southeast Baltic, Station BCS III 10, 27 April**

Complete dominance of *Peridiniella catenata*. *Dinophysis acuminata*\*, *Amylax triacantha*, *Scrippsiella hangoei*, *Heterocapsa rotundatum* and *Protoperdinium bipes* also present. Small amounts of the diatoms *Chaetoceros danicus* and *Thalassiosira baltica* as well as the blue-green *Aphanizomenon* sp. and the Chrysophycean *Dinobryon balticum*.

### **Eastern Gotland basin, Station BY15, 27 April**

Small amounts of a large number of phytoplankton species. Among dinoflagellates *Peridiniella catenata*. *Dinophysis acuminata*\*, *D. norvegica*\*, *Amylax triacantha*, *Scrippsiella hangoei* and *Gymnodinium* sp. were present. Small amounts of the diatoms *Chaetoceros danicus*, *C. ceratosporus*, *C. holsaticus*, *C. wighamii*, *Thalassiosira baltica*, *Actinocyclus octonarius* and *Melosira arctica*. *Aphanizomenon* sp. and *Dinobryon balticum* were relatively common.

### **Western Gotland basin, Station BY38, 28 April**

Complete dominance of *Peridiniella catenata*. *Dinophysis acuminata*\*, *Amylax triacantha*, *Scrippsiella hangoei*, *Heterocapsa rotundatum* and *Gymnodinium* sp. also present. Small amounts of the diatoms *Chaetoceros wighamii* and *Actinocyclus octonarius* as well as the blue-green *Aphanizomenon* sp. and the Chrysophycean *Dinobryon balticum*. *Ebria tripartita*, *Pyramimonas* sp., *Planktonema lauterbornii* and *Teleaulax* sp. were also found.

This report is based on net samples between 0 and 10 m.

#### **FORECAST**

In the Skagerrak and Kattegat a late spring, early summer situation is developing. In the Baltic Sea the spring bloom, dominated by the dinoflagellate *Peridiniella catenata*, is progressing. The blue-green algae *Aphanizomenon* sp. is developing and may soon dominate the plankton flora.