

No 4, 13 – 18 June 2005

### Sammanfattning

I öppna **Skagerrak** var planktonfloran fattig, men i kustområdet rikligare med diatoméer, t.ex. *Skeletonema costatum*, *Dactyliosolen fragilissimus* och *Proboscia alata*. I **Kattegatt** blomnade *Proboscia alata* och *Dactyliosolen fragilissimus* var vanlig.

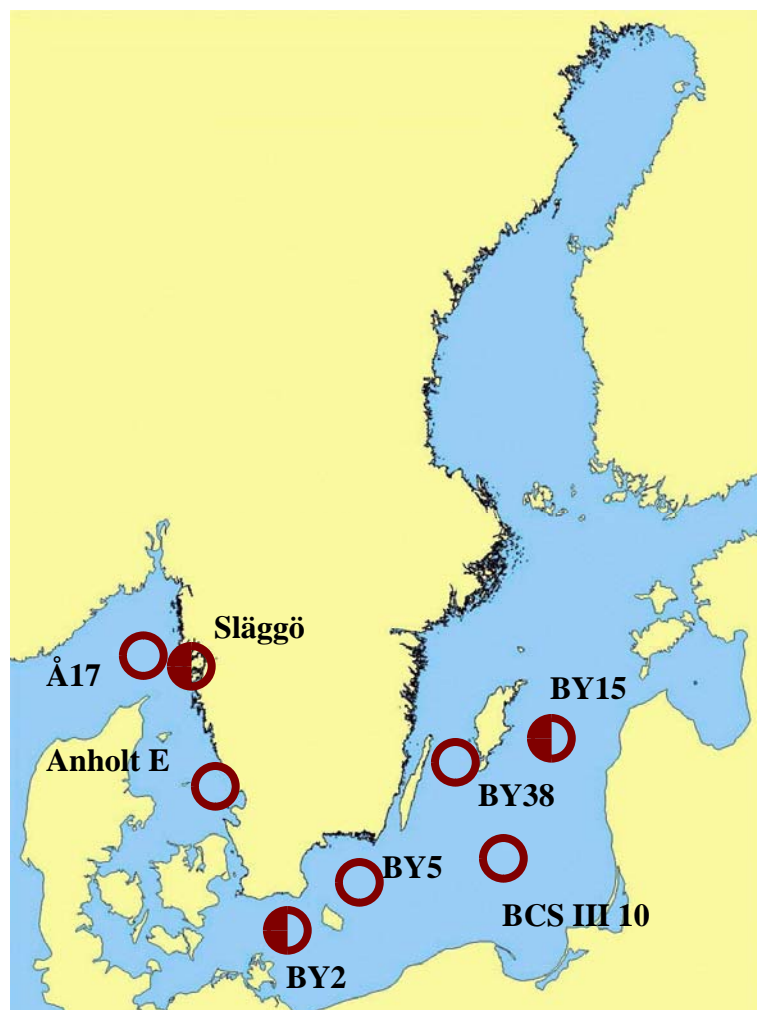
I **Östersjön** fanns mycket flagellater, med *Chrysochromulina* spp.\* som en av de vanligaste. *Aphanizomenon* sp. förekom rikligt i vissa områden.

### Summary

In the open **Skagerrak** the plankton flora was poor, but in the coastal area diatoms were common with *Skeletonema costatum*, *Dactyliosolen fragilissimus* and *Proboscia alata*. In the **Kattegat** there was a bloom of *Proboscia alata* and *Dactyliosolen fragilissimus* was common.

In **Baltic** flagellates, dominated by *Chrysochromulina* spp.\* were common. *Aphanizomenon* sp. was very common in some areas.

- Large amounts of algae
- ◐ Moderate amounts
- Small amounts
- † Fish killing species
- A Alexandrium spp., PSP
- D Dinophysis spp., DSP
- P Pseudo-nitzschia spp. ASP
- C Toxic cyanobacteria





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ALGAL SITUATION IN  
SWEDISH MARINE WATERS

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**DETAILS** Based on quantitative samples 0-10 m depth and net samples \*POTENTIALLY HARMFUL SPECIES

**SKAGERRAK**

**Å17 13 June**

The plankton flora was very poor. Among diatoms only *Proboscia alata* was present. A few dinoflagellates were seen, as well as the coccolithophorid *Emiliana huxleyi*

**Släggö 13 June**

A somewhat richer plankton flora with was seen here. *Skeletonema costatum* dominated and *Dactyliosolen fragilissimus* and *Proboscia alata* were common. *Pseudo-nitzschia delicatissima*-group\* was present in low numbers and the coccolithophorid *Emiliana huxleyi* was common.

**KATTEGAT**

**Anholt E 13 and 18 June**

The plankton flora was poor and only two diatoms were present in high or relatively high numbers; *Dactyliosolen fragilissimus* and *Proboscia alata* with 30 000 - 95 000 and 100 000 – 150 000 cells per litre respectively.

	Recommended limit	Å17 2005-06-13 cells/L	Släggö 2005-06-13 cells/L	Anholt E 2005-06-14 cells/L	Anholt E 2005-06-18 cells/L
Dactyliosolen fragilissimus			common	30 000	95 000
Proboscia alata		present	common	100 000	150 000
Pseudo-nitzschia pseudodelicatissima-group	1 million cells/liter		present		present
Skeletonema costatum			very common	present	present
Ceratium tripos		present	common	present	present
Dinophysis norvegica	900 cells/liter		present		
Protoperdinium crassipes			present		
Heterocapsa triquetra		present	present		
Emiliana huxleyi		present	common		

## BALTIC SEA

### Arkona basin BY2 14 June

Small flagellates dominated with *Chrysochromulina* spp\*., *Pyramimonas* spp. and *Pseudopedinella* sp. The cyanobacterium *Aphanothece* sp. was also common. *Aphanizomenon* sp. was present with about 1 meter per litre.

### Bornholm basin BY5 14 June

The same small flagellates were present here. Single cells of *Dinophysis norvegica*\* were seen. The cyanobacterium *Aphanothece* sp. was common, whereas *Aphanizomenon* sp. was almost absent.

### South East Baltic BCS III 10 15 June

The flora in this area was very much the same as in Arkona Basin, but with much more *Aphanizomenon* sp., about 15 meter per litre. Some *Dinophysis norvegica*\* were also seen

### Eastern Gotland basin BY15 15 June

Again small flagellates dominated with *Chrysochromulina* spp\*., *Pyramimonas* spp. and *Teleaulax* sp. The cyanobacterium *Aphanothece* sp. was common. *Aphanizomenon* sp. was present with about 10 meter per litre. Some *Dinophysis acuminata*\* were seen.

### Western Gotland basin BY38 16 June

This station showed the same pattern, but with lower cell densities. *Aphanizomenon* sp. was present with about 1 meter per litre and *Dinophysis norvegica*\* was seen only as single cells.

	BY2 2005-06-14 cells/L	BY5 2005-06-15 cells/L	BCS III 10 2005-06-15 cells/L	BY15 2005-06-16 cells/L	BY38 2005-06-16 cells/L
Aphanizomenon sp.	1 m/L	present	15 m/L	10 m/L	1 m/L
Aphanothece sp.	common	present	common	common	common
Woronichinia sp.	present			present	present
<i>Dinophysis acuminata</i> *			present	present	
<i>Dinophysis norvegica</i> *		present	present		present
<i>Chrysochromulina</i> spp.*	very common	very common	very common	very common	common
Pyramimonas spp.	very common	very common	very common	very common	common
Planctonema lauterbornii	common	common	common	common	common