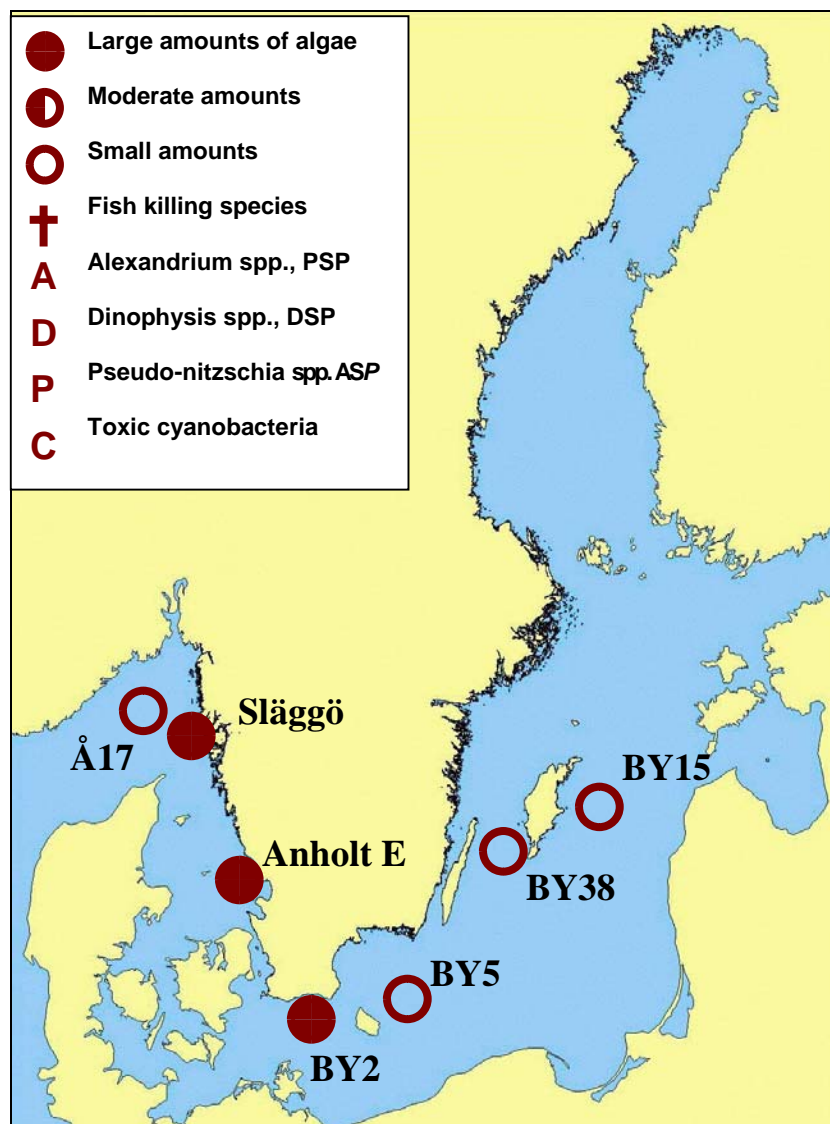


OVERVIEW

In the Kattegat the spring bloom is in a late stage. In the coastal Skagerrak the bloom is still developing and in the open Skagerrak it is just beginning. The bloom of the potentially toxic *Chattonella* sp. is no longer present.

In the Baltic Sea the winter situation is slowly ending and the first signs of the spring bloom are seen. In the Arkona basin the spring bloom is developing and near its maximum.



Oceanographic Services

Lars Edler

**ALGAL SITUATION IN
SWEDISH MARINE WATERS**

No 2,

2004 22 – 25 March

DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK**Station Å17, 25 March**

At this station in the open Skagerrak the spring bloom is about to start. A few diatoms, mainly *Skeletonema costatum* were present. A few dinoflagellates were also seen. Chlorophyll values in the upper 15 m were about 1 µg/l.

Station Släggö, 25 March

The spring bloom was going on, but there was still nutrients left in the upper layer. The plankton flora was rich with a large number of diatom species. *Thalassiosira nordenskiöldii*, *Thalassionema nitzschioides*, *Chaetoceros socialis* and *Chaetoceros debilis* dominated. Dinoflagellates were also very common with *Peridiniella danica* as the dominating species. Chlorophyll values in the upper 15 m were 2-2.5 µg/l.

KATTEGAT**Station Anholt E, 24 March**

The spring bloom was in a late stage. The plankton flora was still rich with a large number of diatoms and dinoflagellates. *Thalassiosira nordenskiöldii*, *Chaetoceros curvisetus* and *Thalassionema nitzschioides* were among the most important. The small dinoflagellate *Peridiniella danica* was very common. A few specimens of *Dinophysis acuta** and *D. norvegica** were present.

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ALGAL SITUATION IN SWEDISH MARINE WATERS

No 2,

2004 22 – 25 March

	2004-03-25	2004-03-25	2004-03-24
	Å17	Släggö	Anholt E
	cells/liter	cells/liter	cells/liter
Cerataulina pelagica		present	present
Chaetoceros curvisetus		common	common
Chaetoceros debilis		common	common
Chaetoceros decipiens		very common	
Chaetoceros diadema		present	
Chaetoceros socialis		common	common
Guinardia delicatula		present	
Navicula transitans		present	present
<i>Pseudo-nitzschia seriata</i> -group		present	
Skeletonema costatum	present	common	common
Thalassionema nitzschioides		common	common
Thalassiosira nordenskiöldii		very common	very common
Ceratium longipes	present	common	present
Ceratium tripos	present	common	present
<i>Dinophysis acuminata</i>			present
<i>Dinophysis acuta</i>			present
<i>Dinophysis norvegica</i>		present	present
Peridiniella danica		very common	very common

BALTIC SEA

Arkona basin. Station BY2, 24 March

The spring bloom was developing. Diatoms dominated and the most common species were *Melosira arctica* and *Skeletonema costatum*. The dinoflagellate *Scrippsiella hangoei* was also very common. Chlorophyll in the upper layer was around 5 mg/m³.

Bornholm basin. Station BY5, 24 March

The spring bloom was in an early stage, seen by the presence of *Skeletonema costatum*, *Scrippsiella hangoei* and *Peridiniella catenata*. Chlorophyll in the upper layer was about 2 mg/m³.

South East Baltic. Station BCS III 10, 23 March

There were no signs of a developing spring bloom at this station.

Eastern Gotland basin, Station BY15, 23 March

At this station there were signs of a soon coming spring bloom. Diatoms like *Skeletonema costatum*, *Chaetoceros wighamii*, *Thalassiosira baltica* were developing. *Aphanizomenon* sp. was present. Chlorophyll in the upper layer was about 1.5 mg/m³.

Western Gotland basin, Station BY38, 22 March

The situation was similar to station BY15, but chlorophyll was even lower.

	2004-03-24	2004-03-24	2004-03-23	2004-03-23	2004-03-22
	BY2	BY5	BCS III 10	BY15	BY38
Actionocyclus octonarius		present		present	
Chaetoceros impressus	present	present	present	present	present
Chaetoceros wighamii	common	common		common	common
Melosira arctica	very common				
Skeletonema costatum	very common	common	present	common	present
Thalassiosira baltica	present				
Dinophysis acuminata					present
Dinophysis norvegica				present	present
Peridiniella catenata	present	common		present	present
Scrippsiella hangoei	very common	common			present
Planktonema lauterbornii		present			
Ebria tripartita	common	present		present	
Aphanizomenon sp.			present	present	present