

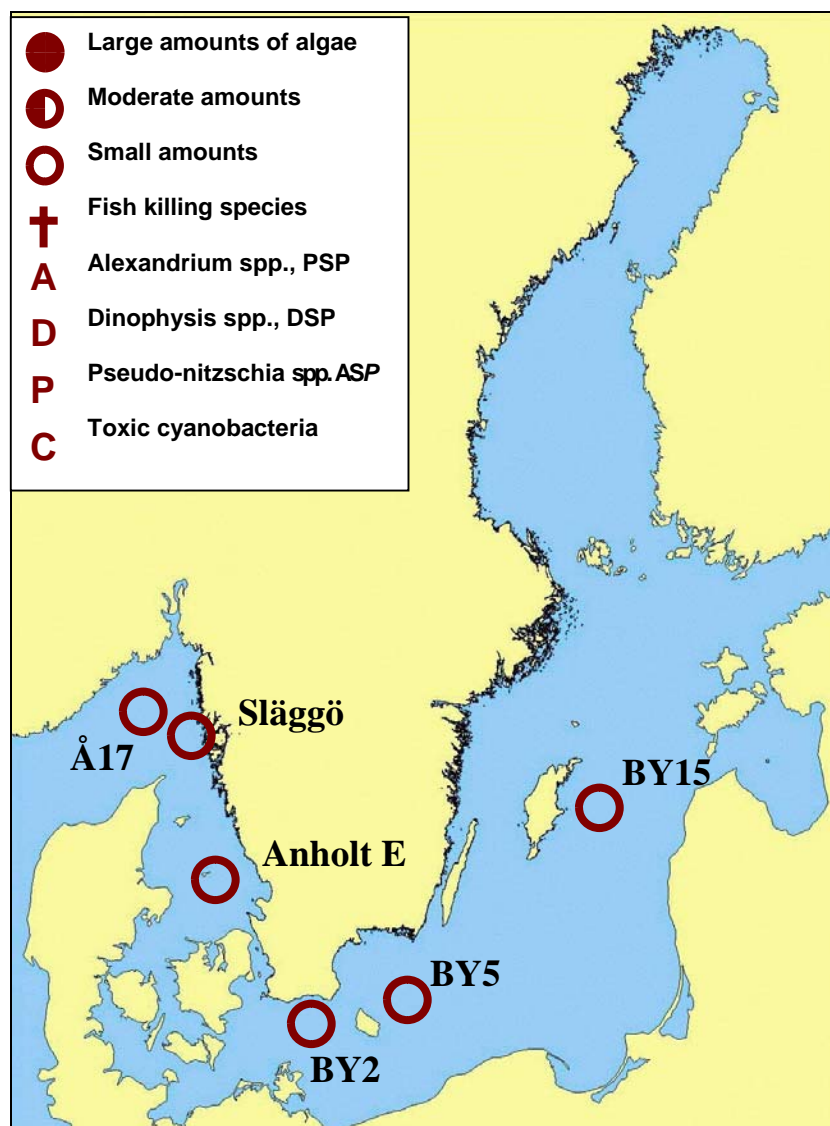
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 12, 2003, 8 - 11 December

OVERVIEW

In the Skagerrak and the Kattegat the plankton composition and abundance has reached a winter situation with small amounts of phytoplankton.

In the Baltic Sea the winter situation is obvious by the small amounts of phytoplankton.



DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK

Station Å17, 11 December

The plankton flora showed a winter stage. Diatoms were few and among diatoms only *Skeletonema costatum* reached above 1000 cells/l. Small, mainly naked dinoflagellates were more common, whereas large species of *Ceratium* and *Dinophysis** were absent. The most common group was the small non-flagellated species, making up more than 90% of the phytoplankton by cell numbers.

Station Släggö, 11 December

Also here the phytoplankton succession was at a late stage and diatoms were few. Large dinoflagellates, especially *Ceratium furca* were not uncommon and a few *Dinophysis acuta** were also found. Some *Chrysochromulina** cells were found among the group of small flagellates.

KATTEGAT

Station Anholt E, 10 December

Diatoms were more common at this station, even if cell densities were below 10000 per liter of all species. Large dinoflagellates were also more common and *Ceratium furca* was present with 7500 cells per liter. *Dinophysis acuta* and *D. norvegica** had 500 cells per liter together and *Chrysochromulina* spp.* reached a few thousand cells per liter.

	2003-12-11	2003-12-11	2003-12-10
	Å17	Släggö	Anholt E
	cells/liter	cells/liter	cells/liter
Dactyliosolen fragilissimus			present
Guinardia delicatula			present
Skeletonema costatum	common		
Thalassiosira angulata	present		common
Thalassiosira punctigera			present
DIATOMS	2 652	1 530	15 676
Ceratium furca		common	7 500
Ceratium fusus		present	common
Ceratium tripos		present	present
<i>Dinophysis acuta</i>		~ 100	~ 300
<i>Dinophysis norvegica</i>			~ 200
Athecate	very common		present
Thecate	common		present
DINOFAGELLATES	35 520	7 898	18 120
<i>Dictyocha speculum</i>		present	present
<i>Chrysochromulina</i> spp.		present	present
Flagellates < 10 µm		370 000	
Non-flagellated < µm	450 000	75 000	400 000

Oceanographic Services
Lars Edler

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BALTIC SEA

Arkona basin. Station BY2, 9 December

Small amounts of large diatoms were present, as well as *Skeletonema costatum*. There was also *Dactyliosolen fragilissimus*, which usually prefers higher salinity. Dinoflagellates and Cyanobacteria were not present.

Bornholm basin. Station BY5, 9 December

Small amounts of large diatoms were present, as well as some *Aphanizomenon* sp..

Eastern Gotland basin, Station BY15, 8 December

Single cells of *Chaetoceros danicus* and *Coscinodiscus granii* were the only diatoms present. *Dinophysis acuminata**, *D. norvegica** and *D. rotundata** were found in small numbers, as was *Aphanizomenon* sp..

	2003-12-09	2003-12-09	2003-12-08
	BY2	BY5	BY15
	cells/liter	cells/liter	cells/liter
Chaetoceros danicus	present	present	present
Chaetoceros impressus	present	present	
Coscinodiscus granii	present	present	present
Dactyliosolen fragilissimus	present		
Skeletonema costatum	present		
Dinophysis acuminata			present
Dinophysis norvegica			present
Dinophysis rotundata			present
Aphanizomenon sp. µm		present	present