

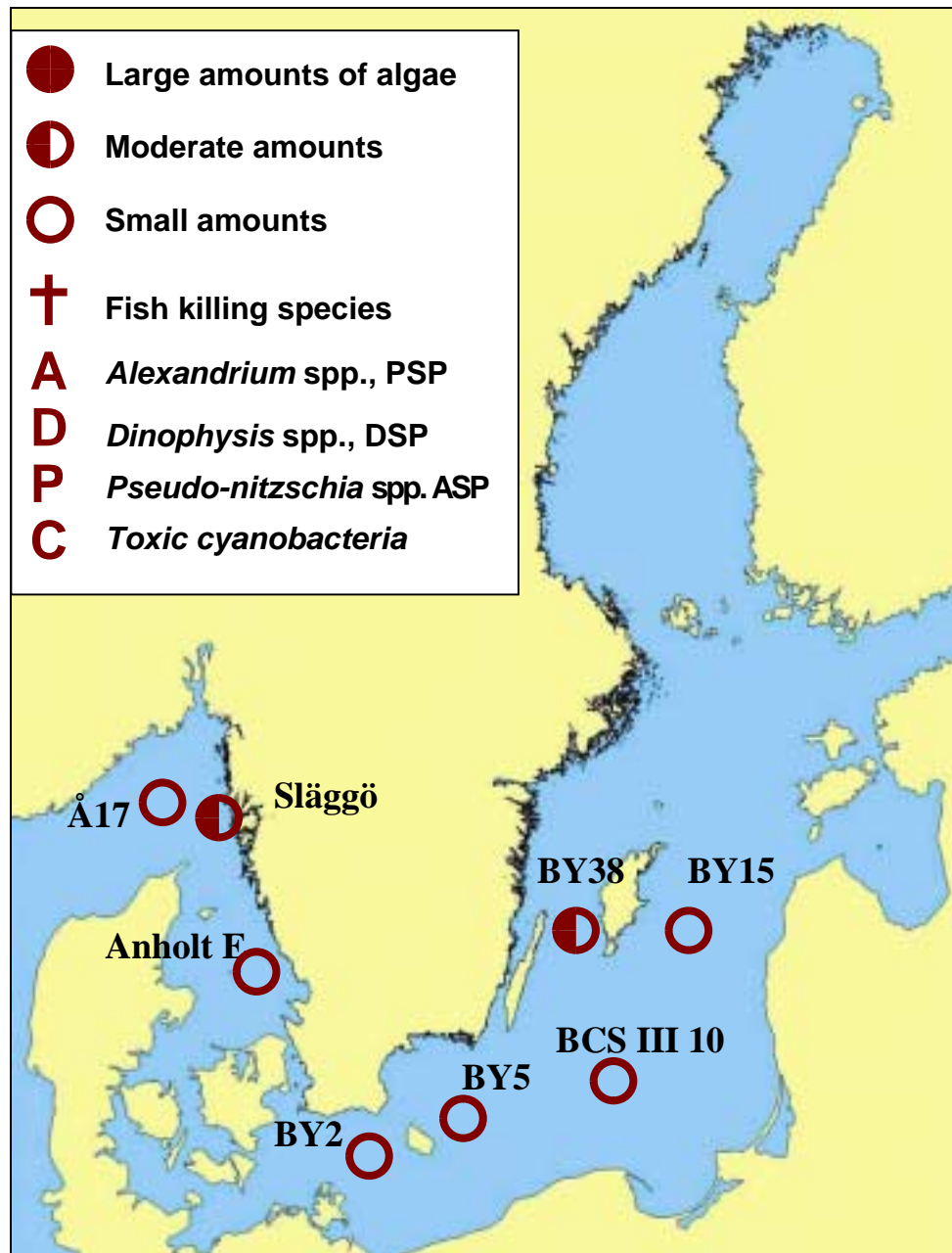
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 5, 2003, 5 - 8 May

OVERVIEW

In the open Skagerrak and Kattegat the plankton flora is rather poor and dominated by flagellates. In the coastal area of the Skagerrak there is a more diverse phytoplankton community with some diatoms of importance.

In the Baltic the plankton flora is poor, dominated by dinoflagellates. Small amounts of cyanobacteria start to be present.



Oceanographic Services
Lars Edler

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DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK

Station Å17, 5 May

The plankton flora was very poor and only two species of diatoms were found. Dinoflagellates were also few, the most common was *Scrippsiella* sp. with about 10 000 cells per liter. Cryptophyceans together with *Pyramimonas* sp. and *Chrysochromulina* spp.* were common.

Station Släggö, 5 May

Considerably more species and higher cell densities were seen at this coastal station. Among diatoms *Attheya longicornis*, *Chaetoceros debilis* and *Skeletonema costatum* were the most important. Several dinoflagellates were present, with *Heterocapsa rotundata* forming the highest density. *Dinophysis acuminata** and *D.norvegica** were present in cell numbers close to the critical limit. *Dinobryon balticum* and *Halosphaera viridis*, typical for this time of the year were abundant.

KATTEGAT

Station Anholt E, 6 May

A very poor phytoplankton community was found. Diatoms, as well as dinoflagellates were almost missing and only small flagellates were of importance. *Dinobryon balticum*, *Apedinella radians* and *Chrysochromulina* sp. *were the most common species.

	2003-05-05	2003-05-05	2003-05-06
	Å17	Släggö	Anholt E
	0-10 m	0-10 m	0-10 m
<i>Chaetoceros debilis</i>		28 416	
<i>Pseudo-nitzschia delicatissima</i> -group		9 468	
<i>Skeletonema costatum</i>		93 240	
<i>Dinophysis acuminata</i>		888	
<i>Dinophysis norvegica</i>	51	1 776	444
<i>Heterocapsa rotundata</i>	28 404	73 377	
<i>Chattonella</i> sp. cf. 10-15 µm		16 569	
<i>Dinobryon balticum</i>		140 000	11 628
<i>Halosphaera</i> sp. (140 µm)		253 080	
<i>Pyramimonas</i> spp.	113 616	108 882	
<i>Teleaulax acuta</i>	94 680	42 606	
<i>Teleaulax amphioxeia</i>	56 808	52 074	
<i>Chrysochromulina</i> sp. (4-6 µm)	44 973	26 037	9 468
<i>Chrysochromulina</i> sp. (6-10 µm)	42 606		21 303

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BALTIC SEA

Arkona basin. Station BY2, 6 May

A very poor plankton flora with only single specimens of *Peridiniella catenata*. Ciliates relatively common. The presence of *Ceratium longipes* indicates inflow of saline Kattegat/Skagerrak water.

Bornholm basin. Station BY5, 7 May

Also very poor with *Peridiniella catenata* being the most common. Small amounts of *Gymnodinium* spp. and *Teleaulax acuta* were found. Ciliates were common.

Southeast Baltic. Station BCS III 10, 7 May

Peridiniella catenata was common at this station, where also *Scrippsiella hangoei* was found. Ciliates were common.

Eastern Gotland basin, Station BY15, 8 May

Also here *Peridiniella catenata* was found, but less abundant. *Heterocapsa triquetra* was present in small numbers.

Western Gotland basin, Station BY38, 8 May

At this station the plankton flora was richer. *Peridiniella catenata* dominated, followed by *Gymnodinium* spp., *Teleaulax acuta*, *Scrippsiella hangoei* and *Katodinium glaucum*. Some filaments of *Nodularia spumigena** were also seen.

	2003-05-06	2003-05-07	2003-05-07	2003-05-08	2003-05-08
	BY2	BY5	BCS III 10	BY15	BY38
<i>Ceratium longipes</i>	present				
<i>Gymnodinium</i> spp. (50)		present	present	present	very common
<i>Gyrodinium spirale</i>			present		present
<i>Heterocapsa triquetra</i>				present	
<i>Katodinium glaucum</i> (20)					common
<i>Peridiniella catenata</i>	present	present	very common	common	very common
<i>Protoperidinium</i> sp.				present	
<i>Scrippsiella hangoei</i>			small amounts		common
<i>Teleaulax</i> spp.		small amounts			common
<i>Nodularia spumigena</i>					present
Ciliates	small amounts	common	common	common	common