

Oceanographic Services

Lars Edler

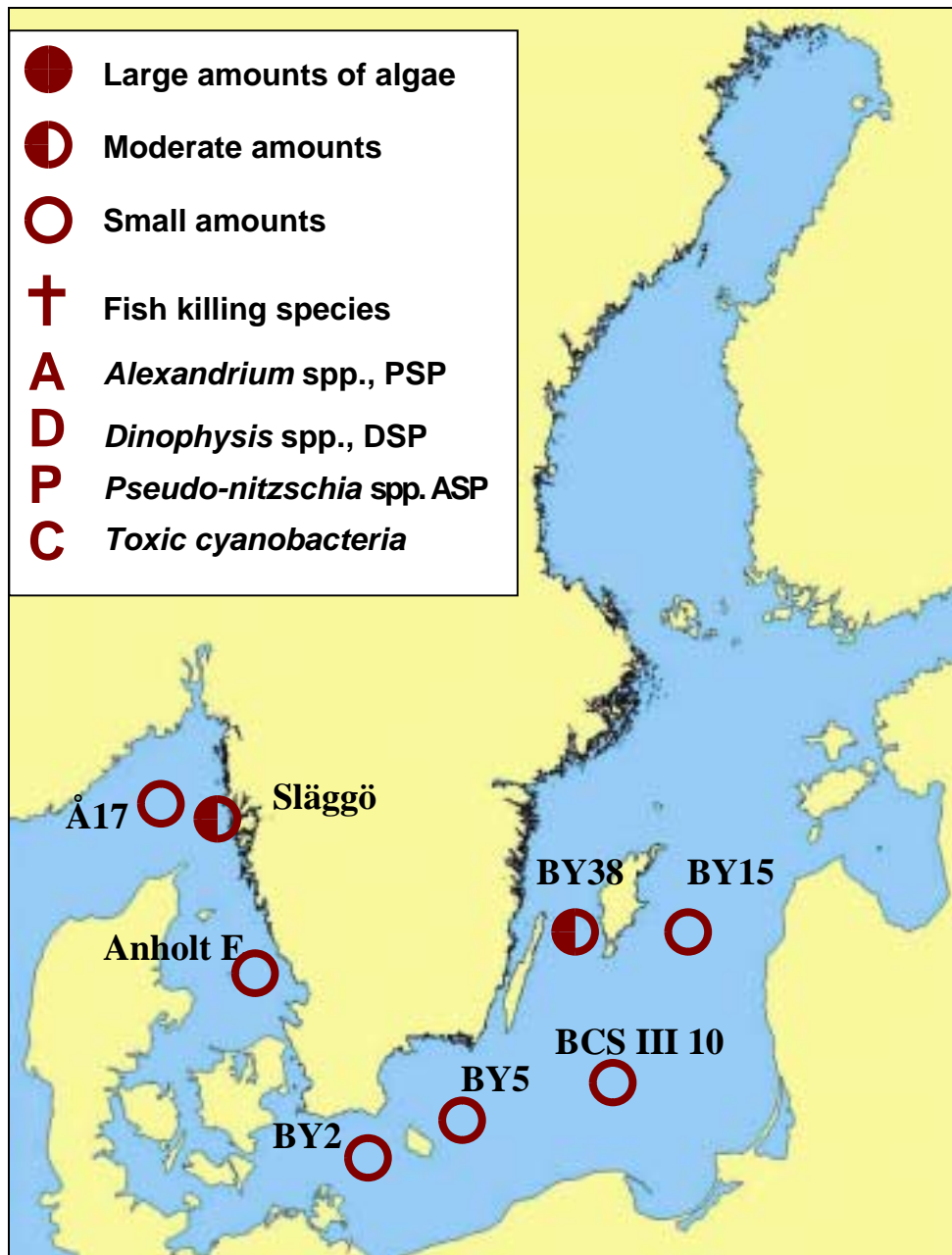
## ALGAL SITUATION IN SWEDISH MARINE WATERS

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.



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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
Chaetoceros debilis		28 416	
<i>Pseudo-nitzschia delicatissima</i> -group		9 468	
Skeletonema costatum		93 240	
<i>Dinophysis acuminata</i>		888	
<i>Dinophysis norvegica</i>	51	1 776	444
Heterocapsa rotundata	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