

Oceanographic Services

Lars Edler

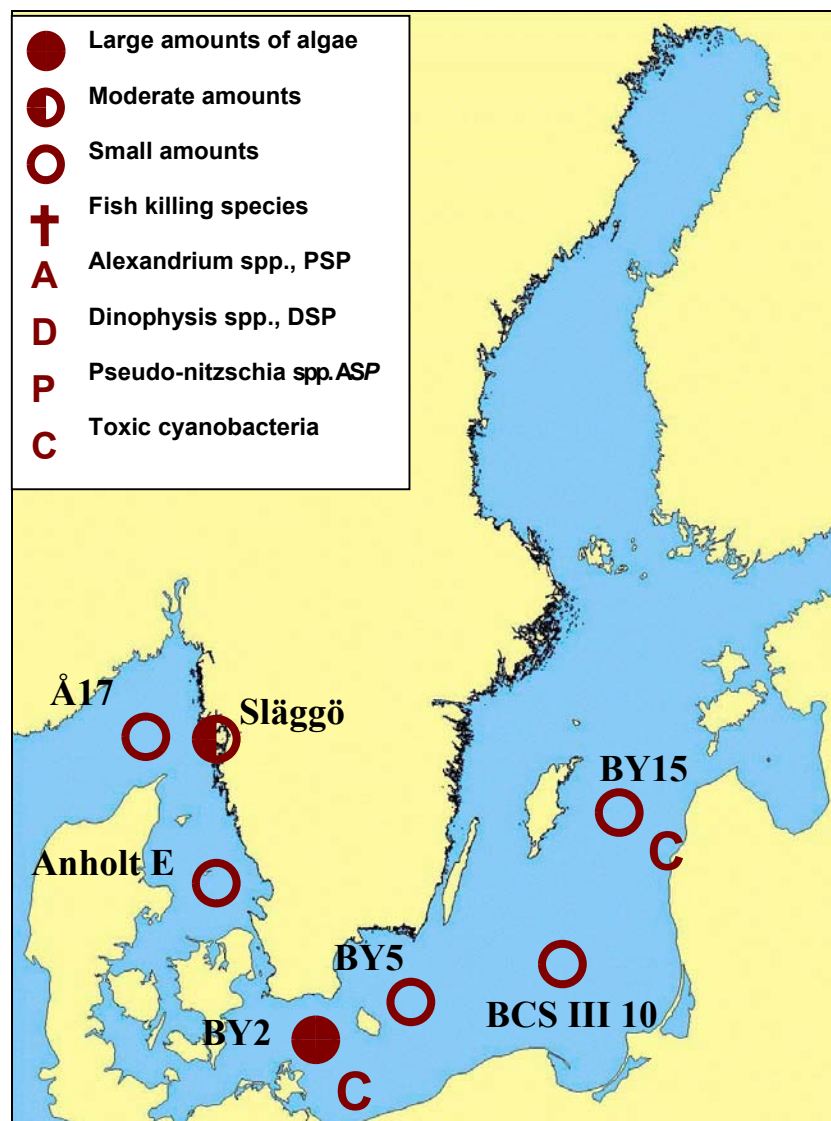
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 9, 2003, 25 - 29 August

OVERVIEW

In the open Skagerrak the plankton flora was poor with few diatoms and dinoflagellates. Close to the coast the abundance was higher with more diatoms and a small bloom of *Skeletonema costatum*. In the Kattegat diatoms were absent and dinoflagellates were few. *Chrysochromulina* spp.* were the most abundant.

In the Baltic *Aphanizomenon* sp. was common in Arkona basin and east of Gotland. *Nodularia spumigena** was almost absent. In Arkona *Dactyliosolen fragilissimus* and *Ceratium tripos* reached high abundance, which may indicate inflow of saline water. *Prorocentrum minimum* was also common.



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DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK

Station Å17, 29 August

A poor plankton flora with small amounts of diatoms was found at this station. Only *Chaetoceros thronsdensei* and *Dactyliosolen fragilissimus* were present in measurable quantities. Among dinoflagellates *Gymnodinium*/*Gyrodinium* dominated. *Chrysochromulina* spp.* reached the highest cell densities.

Station Släggö, 29 August

Diatoms were common with the highest cell densities of *Skeletonema costatum* with 100 000 cells/l. *Chaetoceros* species, *Dactyliosolen fragilissimus* and *Pseudo-nitzschia** species were also present. Few dinoflagellates were found. Small *Chrysochromulina* spp.* were present.

KATTEGAT

Station Anholt E, 25 and 28 August

Diatoms were almost absent at Anholt E at both samplings, three days apart. Only small amounts of *Chaetoceros affinis* were observed. Dinoflagellates were also few and *Dinophysis acuta** was present with only 50 cells/l. Again *Chrysochromulina* spp.* were among the most abundant phytoplankton present.

	2003-08-29	2003-08-29	2003-08-25	2003-08-28
	Å17	Släggö	Anholt E	Anholt E
	0-10 m	0-10 m	0-10 m	0-10 m
	celler/liter	celler/liter	celler/liter	celler/liter
<i>Chaetoceros affinis</i>		present		present
<i>Chaetoceros contortus</i>		present		
<i>Chaetoceros thronsdensei</i>	common	common		
<i>Dactyliosolen fragilissimus</i>	common	common		
<i>Pseudo-nitzschia delicatissima</i> -group		~ 1 000		
<i>Pseudo-nitzschia seriata</i> -group		~ 1 000		
<i>Skeletonema costatum</i>		100 000		
<i>Ceratium tripos</i>	present	present	present	common
<i>Dinophysis acuta</i>				50
<i>Gymnodinium</i> spp.	common	present	common	present
<i>Gyrodinium</i> sp. 10-15 µm	very common			
<i>Chrysochromulina</i> sp. (3-6 µm)	~ 40 000	~ 25 000	~ 50 000	~ 20 000
<i>Chrysochromulina</i> sp. (6-10 µm)	~ 25 000		~ 50 000	

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BALTIC SEA

Arkona basin. Station BY2, , 25 August

The plankton flora was dominated by *Aphanizomenon* sp., present with about 10 m/l. *Nodularia spumigena**, however, was not present. Several diatoms were found, and the most common was *Dactyliosolen fragilissimus* with about 50 000 cells/l, which is uncommon in the low saline water of the Arkona basin. Also *Ceratium tripos* was present in unusually high numbers. Other dinoflagellates of importance was *Prorocentrum minimum* and *Dinophysis acuminata** and *norvegica**. *Pyramimonas* spp. and *Chrysochromulina* spp.* were common.

Bornholm basin. Station BY5, 26 August

The plankton flora was much poorer here and only very small amounts of *Aphanizomenon* sp. was present. Among dinoflagellates only *Ceratium tripos* was observed. *Pyramimonas* spp. and *Chrysochromulina* spp.* were common.

Southeast Baltic. Station BCS III 10, 26 August

The plankton flora was very poor at this station. A few diatoms were found in the net samples, whereas dinoflagellates and blue-greens were absent. Small amounts of *Pyramimonas* spp. and *Chrysochromulina* spp.* were found.

Eastern Gotland basin, Station BY15, 27 August

Aphanizomenon sp. was present with about 6 m/l, and *Anabaena* sp,* and *Nodularia spumigena** were present with a few threads. Several diatoms were found in low numbers. Among dinoflagellates *Dinophysis norvegica** and *Prorocentrum minimum* were the most common.

	2003-08-25	2003-08-25	2003-08-26	2003-08-27
	BY2	BY5	BCS III 10	BY15
	0-10 m	0-10 m	0-10 m	0-10 m
	celler/liter	celler/liter	celler/liter	celler/liter
<i>Actinocyclus octonarius</i>	present	present	present	present
<i>Chaetoceros danicus</i>	present	present	present	common
<i>Chaetoceros impressus</i>			present	common
<i>Chaetoceros thronsenii</i>	common			present
<i>Dactyliosolen fragilissimus</i>	60 000			
<i>Ceratium fusus</i>	50			
<i>Ceratium tripos</i>	1 100	present		
<i>Dinophysis acuminata</i>	present			
<i>Dinophysis norvegica</i>	present			present
<i>Prorocentrum minimum</i>	55 000			present
<i>Apedinella radians</i>	55 000			
<i>Teleaulax</i> spp.	common	present	present	present
<i>Pyramimonas</i> spp.	200 000	very common	common	
<i>Chrysochromulina</i> spp.	50 000	common	present	present
<i>Anabaena</i> sp.				present
<i>Aphanizomenon</i> sp.	10 meter/l	present		6 meter/l
<i>Nodularia spumigena</i>	present			present