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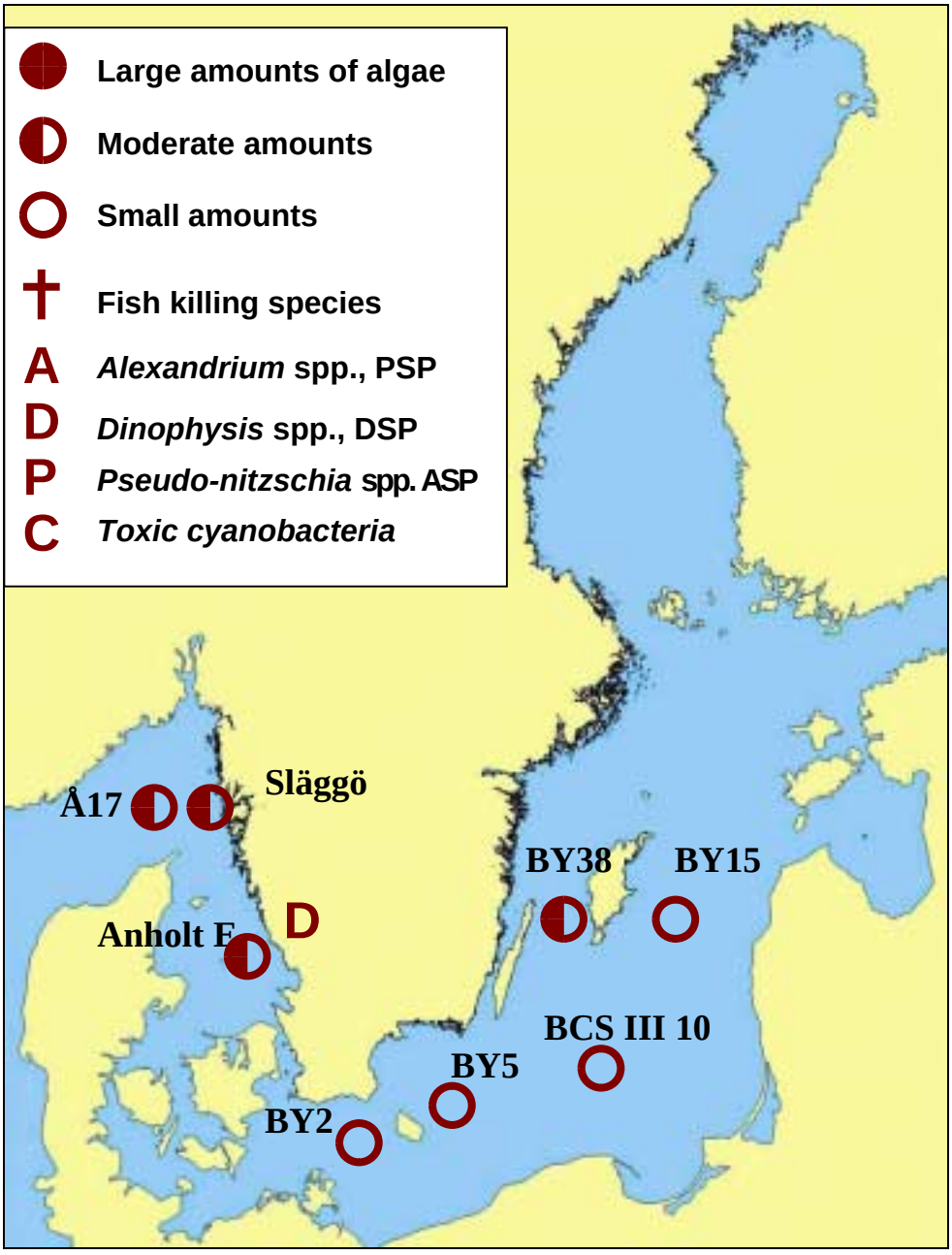
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 6, 2003, 2 - 7 June

OVERVIEW

In the Skagerrak there was a diatom bloom. Dinoflagellates were not very abundant. In the Kattegat the diatom bloom developed and the potentially toxic *Dinophysis acuminata** decreased from very high numbers. *Chrysochromulina* spp.* was present but not in high numbers.

In the Baltic the plankton flora was poor. Cyanobacteria start to increase.



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DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK

Station Å17, 2 June

A diatom bloom dominated by *Dactyliosolen fragilissimus* and *Pseudo-nitzschia delicatissima*-group* was found. *Heterocapsa triquetra* and *Scrippsiella trochoidea* and small amounts of *Dinophysis acuminata** were the only dinoflagellates present. *Chrysochromulina* spp.* were relatively common.

Station Släggö, 2 June

A similar diatom bloom with *Dactyliosolen fragilissimus* and *Pseudo-nitzschia delicatissima*-group* was found at this coastal station. In addition, *Cerataulina pelagica* and *Proboscia alata* were common. *Scrippsiella trochoidea* was more abundant here, whereas *Chrysochromulina* spp.* were less abundant compared to Å17.

KATTEGAT

Station Anholt E, 3 June

The plankton flora was rather poor. There were signs of the *Dactyliosolen fragilissimus* bloom, but the cell density was only one tenth of that in the Skagerrak. Also *Pseudo-nitzschia delicatissima*-group* was much reduced compared to the Skagerrak. Instead *Dinophysis acuminata** was common with densities far above the critical value. Small *Chrysochromulina* spp.* were present in low numbers.

Station Anholt E, 7 June

Dactyliosolen fragilissimus had developed into a bloom with cell densities four times higher than four days earlier. At the same time *Dinophysis acuminata** had almost disappeared and *Heterocapsa triquetra* increased. *Chrysochromulina* spp.* were still present in low numbers.

	2003-06-02	2003-06-02	2003-06-03	2003-06-07
	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
Asterionellopsis glacialis		present		
Cerataulina pelagica	present	35 000	2 500	4 000
Dactyliosolen fragilissimus	600 000	700 000	55 000	200 000
Guinardia flaccida	1 000	7 000	2 000	1 000
Proboscia alata	2 000	30 000	10 000	4 000
Pseudo-nitzschia delicatissima-group	200 000	150 000	4 000	present
Ceratium tripos	500	1 200	100	400
Dinophysis acuminata	present	present	3 000	present
Heterocapsa triquetra	7 000	1 000	5 000	20 000
Scrippsiella trochoidea	7 000	12 000	present	
Chrysochromulina sp. (3-6 µm)	10 000		5 000	7 000
Chrysochromulina sp. (6-10 µm)	20 000	15 000		
Unicells <6µm	500 000	1 300 000	400 000	300 000

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BALTIC SEA

Arkona basin. Station BY2, 4 June

A poor plankton flora with only single specimens of a few diatoms and dinoflagellates. Small amounts of *Chrysochromulina* spp.* and *Planktonema lauterbornii*. *Aphanizomenon* sp. and *Nodularia spumigena** have started do increase slowly.

Bornholm basin. Station BY5, 4 June

A similar situation was found at this station, but with less *Aphanizomenon* sp.

Southeast Baltic. Station BCS III 10, 5 June

The amounts of phytoplankton were larger here. *Chrysochromulina* spp.* and *Scrippsiella hangoei* were more abundant. Diatoms were not present.

Eastern Gotland basin, Station BY15, 5 June

In this area the plankton flora was really poor. The post spring bloom situation was seen by the presence of *Dinobryon balticum* and ciliates. Single filaments of *Aphanizomenon* sp. were found, whereas *Nodularia spumigena** was absent.

Western Gotland basin, Station BY38, 6 June

The plankton flora here was extremely poor. Only a few filaments of *Aphanizomenon* sp. were found, together with some cells *Dinophysis norvegica**.

	2003-06-04	2003-06-04	2003-06-05	2003-06-05	2003-06-06
	BY2	BY5	BCS III 10	BY15	BY38
	0-10 m	0-10 m	0-10 m	0-10 m	0-10 m
Chaetoceros impressus	present	present			
Thalassiosira spp.	present	present			
Amylax triacantha			present	present	
Dinophysis acuminata		present	present	present	
Dinophysis norvegica	present	present	present	present	present
Heterocapsa minima	present				
Peridiniella catenata		present			
Scrippsiella hangoei	present	present	small amounts	present	
Chrysochromulina sp. (3-6 µm)	present		small amounts		
Chrysochromulina sp. (6-10 µm)	present		small amounts		
Planktonema lauterbornii	present		present	present	
Pyramimonas spp.					
Dinobryon balticum				present	
Aphanizomenon sp. ("baltica")	common	small amounts	small amounts	present	small amounts
Nodularia spumigena	present	present	present		