

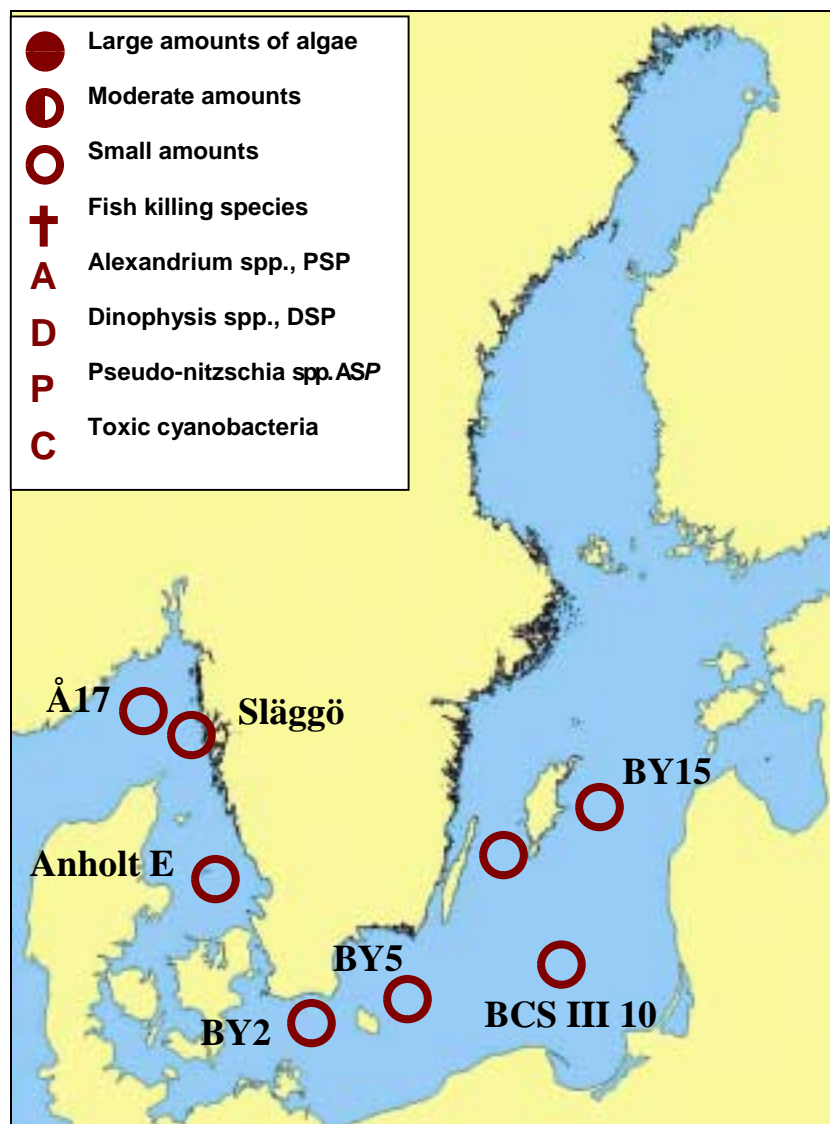
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 11, 2003, 20 - 24 October

OVERVIEW

In the Skagerrak and the Kattegat the autumn bloom was passed and the succession went towards a winter situation with small amounts of phytoplankton.

In the Baltic cyanobacteria had almost disappeared and large diatoms, a few dinoflagellates and small flagellates dominated. West of Gotland there was a *Prorocentrum minimum** bloom.



Oceanographic Services

Lars Edler

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DETAILS

* POTENTIALLY HARMFUL SPECIES

SKAGERRAK

Station Å17, 24 October

This sampling showed an autumn situation with many diatoms, but low in numbers. *Guinardia delicatula* and *Chaetoceros tenuissimus* were the most common species. Small *Gymnodiniales* dominated the dinoflagellates together with *Prorocentrum minimum*. *Ceratium* and *Dinophysis* species were rare.

Station Släggö, 24 October

Here the phytoplankton succession was at a later stage and diatoms were not very common. Large species, such as *Coscinodiscus wailesii* and *C. radiatus* were present in low numbers. *Ceratium* and *Dinophysis* species were more common here, than at Å17, but still in low numbers.

KATTEGAT

Station Anholt E, 24 October

Also here the autumn bloom was passed and the diversity and cell concentrations were low. Among diatoms *Chaetoceros socialis* v. *radians* was the most common. Large dinoflagellates like *Ceratium* and *Dinophysis* species were present in low numbers. Small species like *Heterocapsa rotundata* and *Scrippsiella* sp. dominated.

	2003-10-24	2003-10-24	2003-10-24
	Å17	Släggö	Anholt E
	cells/liter	cells/liter	cells/liter
<i>Chaetoceros socialis</i> f. <i>radians</i>			~ 30000
<i>Guinardia delicatula</i>	common	present	present
<i>Pseudo-nitzschia delicatissima</i> -group	present	present	present
<i>Ceratium fusus</i>	common	present	common
<i>Dinophysis acuminata</i>	~ 50	~ 100	~ 50
<i>Dinophysis acuta</i>	~ 50	~ 150	300
<i>Dinophysis dens</i>		present	
<i>Dinophysis norvegica</i>		50	~ 50
<i>Gymnodinium vestificii</i>	common	common	
<i>Prorocentrum minimum</i>	~ 12000	present	
<i>Plagioselmis prolunga</i>	common		
<i>Teleaulax</i> spp.	common	common	common
<i>Pyramimonas</i> spp.	very common	present	present
<i>Chrysochromulina</i> spp.	common		very common

BALTIC SEA

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Arkona basin. Station BY2, 23 October

Cyanobacteria were not present any more. The plankton flora was poor with a few large diatoms and some dinoflagellates. Small flagellates such as *Teleaulax* spp. and *Pyramimonas* spp. dominated.

Bornholm basin. Station BY5, 20 October

Here the plankton flora was somewhat richer. The diatoms present were large forms: *Coscinodiscus granii*, *Chaetoceros impressus* and *Actinocyclus octonarius*. Small amounts of *Aphanizomenon* sp. and *Nodularia spumigena** were seen in the net sample. *Ebria tripartita* was common.

Southeast Baltic. Station BCS III 10, 20 October

Cyanobacteria were almost absent and only a few *Aphanizomenon* sp. were seen in the net sample. The diatoms were the same as at BY5 as well as the small flagellates. In addition *Apedinella radians* and *Prorocentrum minimum** were found.

Eastern Gotland basin, Station BY15, 21 October

Also here there were only remains of the cyanobacteria with a few *Aphanizomenon* sp.. The large diatoms were also present at this station, as was *Prorocentrum minimum**, *Heterocapsa rotundata* and *Teleaulax* spp.

Western Gotland basin, Station BY38, 21 October

Very small amounts of *Aphanizomenon* sp. were present. A few *Coscinodiscus* sp. and *Chaetoceros impressus* were seen, as well as *Ebria tripartita*. *Prorocentrum minimum** was common and bloomed with about 75 000 cells/l.

	2003-10-23	2003-10-20	2003-10-20	2003-10-21	2003-10-21
	BY2	BY5	BCS III 10	BY15	BY38
	cells/liter	cells/liter	cells/liter	cells/liter	cells/liter
<i>Actinocyclus octonarius</i>		present			
<i>Chaetoceros danicus</i>	present		present	present	
<i>Chaetoceros impressus</i>	present	present	present	present	present
<i>Coscinodiscus granii</i>		present	present	present	
<i>Coscinodiscus</i> sp.	present	present	present	present	present
<i>Dinophysis norvegica</i>		present			
<i>Dinophysis rotundata</i>	present	present			
<i>Heterocapsa rotundata</i>	present			present	
<i>Prorocentrum minimum</i>	present		present	present	75000
<i>Ebria tripartita</i>		common			present
<i>Hemiselmis virescens</i>	present	present			
<i>Plagioselmis prolunga</i>		present	present		
<i>Teleaulax</i> spp.	present	present	present	present	
<i>Aphanizomenon</i> sp.		present	present	present	present
<i>Nodularia spumigena</i>		present			