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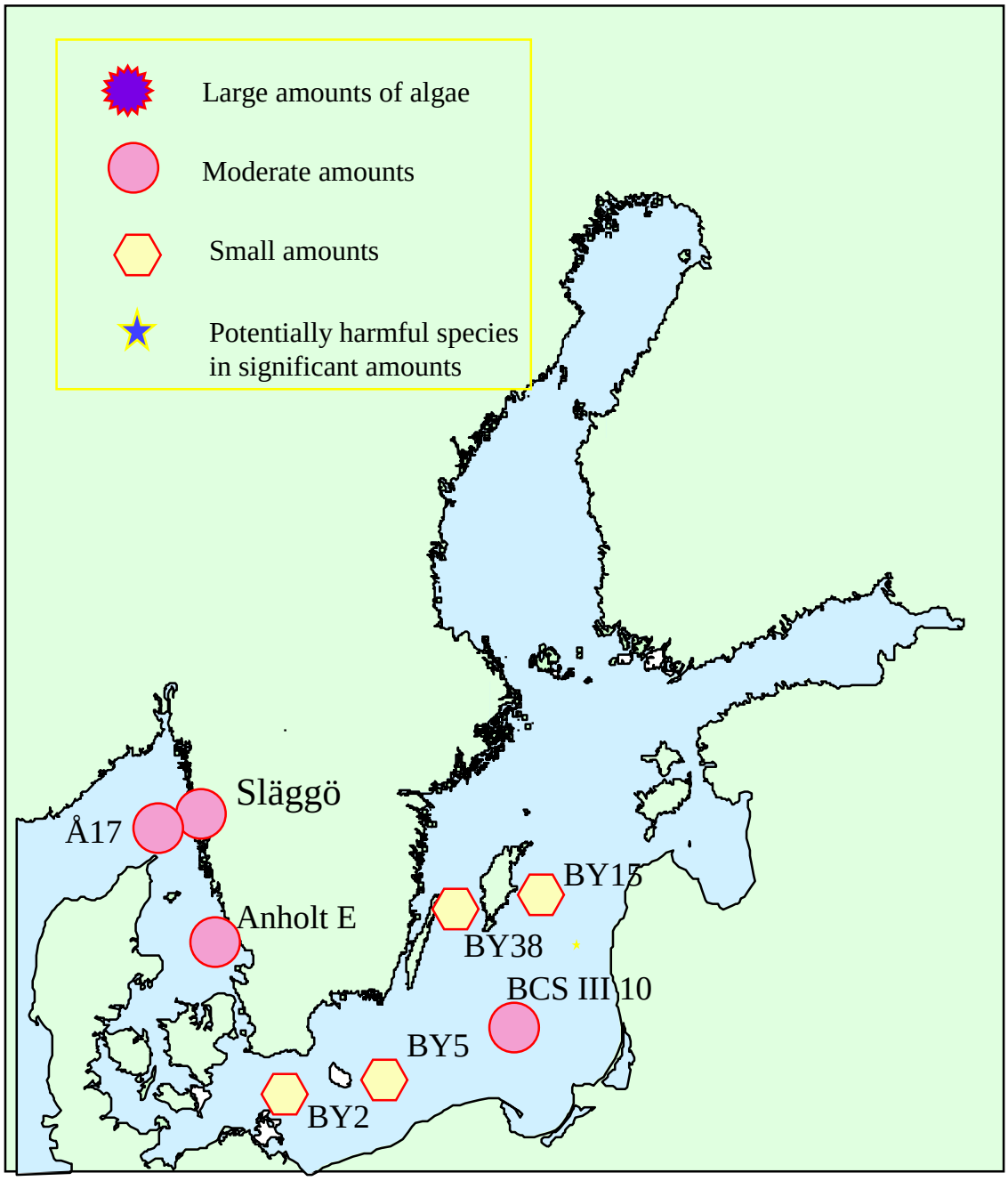
ALGAL SITUATION IN SWEDISH MARINE WATERS

No 4, 2002, 11 - 15 June

OVERVIEW



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DETAILS

* POTENTIALLY HARMFUL SPECIES

Sampling in the Skagerrak, Kattegat and the Baltic Sea

SKAGERRAK

Station Å17, 10 JUNE

Restricted flora with dominance of *Dactyliosolen fragilissimus* with 100 000 cells/l. *Skeletonema costatum* and *Pseudo-nitzschia delicatissima* common. Less than 300 cells/l of *Dinophysis acuta** and *D. norvegica**. *Chrysochromulina* spp.* present with about 50 000 cells/l. *Monads* and *flagellates* common.

Station Släggö, 10 JUNE

Dominance of small *Chaetoceros* spp. with 600 000 cells/l, followed by *Skeletonema costatum* with 500 00 cells/l. *Dactyliosolen fragilissimus* and *Pseudo-nitzschia delicatissima* also very common. Single cells of *Dinophysis acuminata** and *D. acuta**. *Chrysochromulina* spp.* present with about 65 000 cells/l. *Monads* and *flagellates* common.

KATTEGAT

Station Anholt E, 11 JUNE

Restricted flora with dominance of *Dactyliosolen fragilissimus* (~ 65 000 cells/l). *Thalassionema nitzschioides* and *Skeletonema costatum* common. *Chrysochromulina* spp.* present with about 50 000 cells/l. *Monads* and *flagellates* and *Ciliates* relatively common.

Station Anholt E, 15 JUNE

Very similar to the situation four days earlier. *Dactyliosolen fragilissimus* had increased to about 150 000 cells/l. *Chaetoceros tenuissimus* present with 100 000 cells/l. Again dominance of *Skeletonema costatum* with about 10 000 cells per liter. Very few species of dinoflagellates. *Chrysochromulina* spp.* present with about 30 000 cells/l.

BALTIC SEA

Arkona basin. Station BY2, 11 JUNE

Small species dominated. The most common was *Chrysochromulina* sp.*, amounting to about 400 000 cells/l. Other flagellates of importance were *Pyramimonas* sp. and Cryptophyceans. Diatoms were missing and dinoflagellates were present only in small amounts. *Planktonema lauterbornii* was present

with about 10 000 cells/l. Among bluegreens, *Aphanizomenon* sp. was present with about 0.8 m/l, whereas *Anabaena* sp.* and *Nodularia spumigena** occurred with single filaments only. Cf. *Aphanocapsa* sp. was also observed.

Bornholm basin. Station BY5, 11 JUNE

The plankton flora was very similar to station BY2. *Chrysochromulina* sp.* reached about 450 000 cells/l. The flagellates *Pyramimonas* sp. and Cryptophyceans were common. Small amounts of the diatoms *Chaetoceros impressus* and *C. similis* were found. Dinoflagellates were present only in small amounts, mainly *Heterocapsa rotundata* and *Gymnodinium simplex*, but *Dinophysis acuminata** and *D. norvegica** were also seen as single cells. *Planktonema lauterbornii* was present with about 20 000 cells/l. Among bluegreens, *Aphanizomenon* sp. was present with about 0.8 m/l, whereas *Anabaena* sp.* and *Nodularia spumigena** occurred with single filaments only.

Southeast Baltic, Station BCS III 10, 11 JUNE

Again the situation was similar to the previous stations, but with increasing amounts of *Chrysochromulina* sp.* to about 550 000 cells/l and *Aphanizomenon* sp. to about 2 m/l. flagellates *Pyramimonas* sp. was very common mainly *Heterocapsa rotundata* and *Gymnodinium simplex*, but *Dinophysis acuminata** and *D. norvegica** were also seen as single cells.

Again small flagellates predominated with *Pyramimonas* sp., *Plagioselmis prolonga* and *Dinobryon balticum* being the most common. Small amounts of *Thalassiosira baltica*, as well as *Dinophysis acuminata**. Single cells of *Peridiniella catenata* and *Scrippsiella hangoei* were seen. *Aphanizomenon* sp. was present in the net hauls only. *Ciliates* were abundant.

Eastern Gotland basin, Station BY15, 16 MAY

Dominance of small flagellates with *Pyramimonas* sp., *Plagioselmis prolonga, Pseudopedinella tricostata, Chrysochromulina* sp.* and *Dinobryon balticum* being the most common. Small amounts of *Thalassiosira baltica* and *Chaetoceros wighamii*. Single cells of *Peridiniella catenata* and *Gymnodinium* sp. were seen. *Aphanizomenon* sp. was present in the net hauls only. *Ciliates* were common.

Western Gotland basin, Station BY38, 16 MAY

A poor plankton flora dominated by small flagellates; *Pyramimonas* sp., *Plagioselmis prolonga, Pseudopedinella tricostata, Chrysochromulina* sp.* and *Dinobryon balticum. S*mall amounts of *Thalassiosira baltica* and *Actinocyclus octonarius* as well as *Dinophysis acuminata**. *Aphanizomenon* sp. was present in net hauls only. *Ciliates* were abundant.