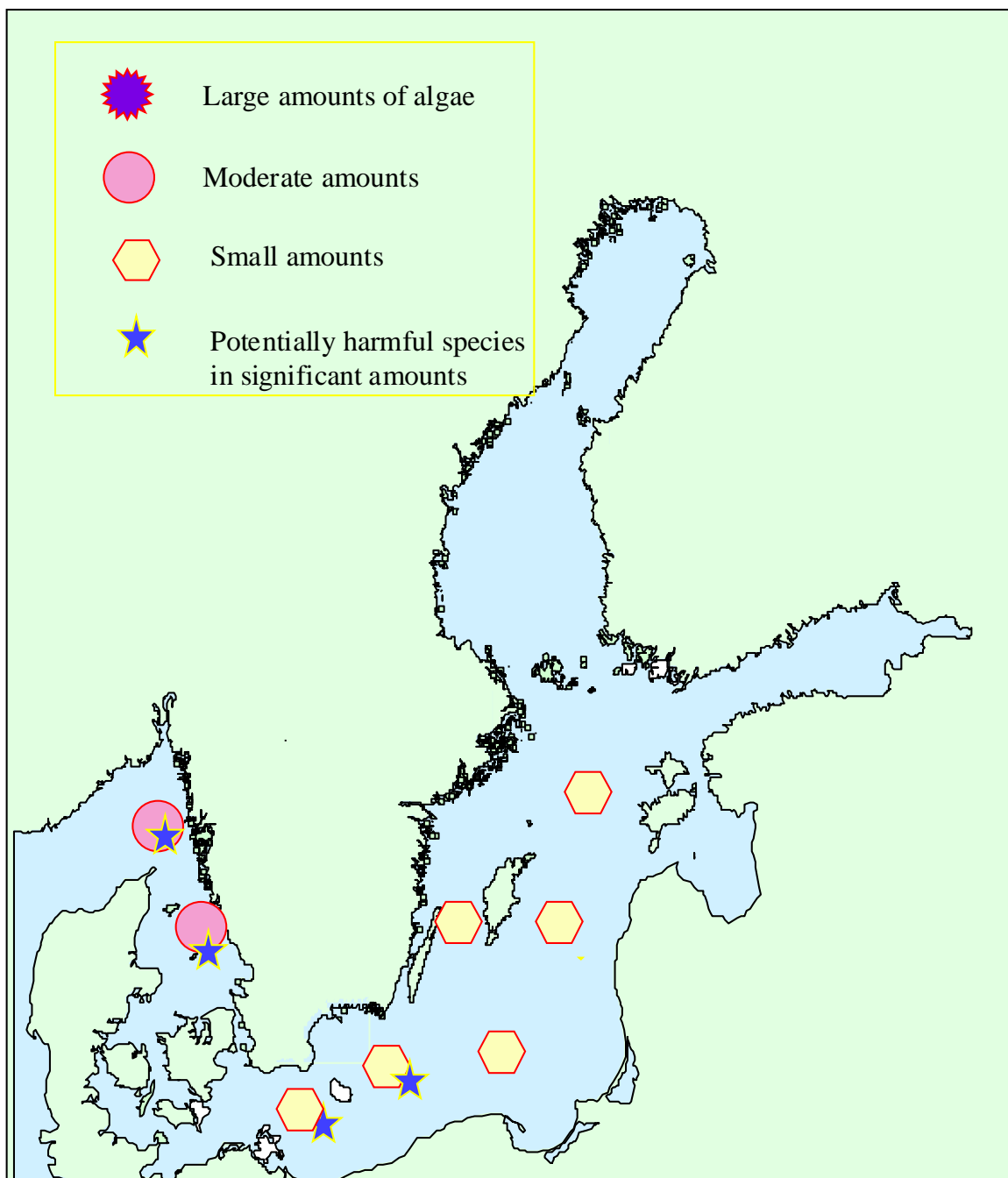


**ALGAL SITUATION IN SWEDISH MARINE WATERS No 11,
25-29 October, 1999****OVERVIEW****Sampling in the Skagerrak, the Kattegat and the Baltic Sea**

ALGAL SITUATION IN SWEDISH MARINE WATERS No 11, 1999, 25-29 OCTOBER

DETAILS

* POTENTIALLY HARMFUL SPECIES

Sampling in the Skagerrak, the Kattegat and the Baltic Sea

SKAGERRAK

Station Å17, 29 OCTOBER

Diatoms dominated with about 800 000 cells/l of *Pseudo-nitzschia pseudodelicatissima**. Small amounts of *Pseudo-nitzschia delicatissima* were also present. The green gymnodium, cf. *Lepidodinium viride* (or *Gymnodinium chlorophorum*) was found in amounts of about 200 000 cells/l. Single cells of *Dinophysis acuta** and *D. norvegica** were observed.

KATTEGAT

Station Anholt E, 28 October

A considerable bloom with 3.3 million cells/l of *Pseudo-nitzschia delicatissima** was going on. The green gymnodium, cf. *Lepidodinium viride* (or *Gymnodinium chlorophorum*) was found in amounts of about 140 000 cells/l. Small amounts of *Dinophysis acuta**, *D. acuminata** and *D. norvegica** were observed, as well as single cells of *Ceratians*.

BALTIC SEA

Arkona basin. Station BY2, 27 October

Poor plankton flora. The diatoms *Chaetoceros impressus*, *Skeletonema costatum* and *Pseudo-nitzschia delicatissima** were present in small amounts. *Prorocentrum minimum** dominated with about 125 000 cells/l.

Bornholm basin. Station BY5, 27 October

Very poor flora. Also here *Prorocentrum minimum** dominated with about 90 000 cells/l. Small amounts of *Heterocapsa rotundatum*, *Teleaulax* spp. and *Plagioselmis* spp. present.

Southeast Baltic, Station BCS III 10, 25 October

Very poor flora. *Prorocentrum minimum** was present with about 20 000 cells/l. Small amounts of *Heterocapsa rotundatum*, *Teleaulax* spp. and *Plagioselmis* spp. present.

Eastern Gotland basin, Station BY15, 25 October

Poor flora. No large blue green algae. The diatoms Chaetoceros impressus and C. danicus dominated among larger phytoplankton. Heterocapsa rotundatum, Teleaulax spp. and Plagioselmis spp. together with Pyramimonas spp. dominated among smaller forms. Single cells of Prorocentrum minimum* were also found.

Northern Baltic, Station BY29, 26 October

Very similar to Station BY15. Also here Prorocentrum minimum* was found as single cells.

Western Gotland basin, Station BY38, 26 October

Very similar to Station BY15. Also here Prorocentrum minimum* was found as single cells. Pyramimonas spp. dominated. Single cells of Chaetoceros impressus were seen.

This report is based on a rough quantification of integrated samples between 0 and 10 m.

FORECAST

In the Skagerrak and Kattegat the diatom bloom may continue for a while if sunny days continue. Dinoflagellates are likely to increase. In the Baltic, the plankton flora is unusually poor just now, except for the bloom of Prorocentrum minimum which is seen all over the Baltic proper and the Kattegat and the Skagerrak. It is likely that large diatoms will increase in numbers in the Baltic, but in general a calm period in terms of phytoplankton growth is to be expected.