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CRUISE REPORT FROM R/V ARGOS

Survey period: 980831 - 980916

Survey area: The Skagerrak, the Kattegat and the Sound

Principal: SMHI and Swedish National Board of Fisheries

PRELIMINARY RESULTS

The expedition, which was carried out in co-operation with the National Board of Fisheries, began and ended in Göteborg. Hydrographic measurements were carried out at eight of SMHI:s frequent standard stations and at fifteen trawl-stations. In addition, mapping of the oxygen conditions in the bottom water was carried out in the whole area.

The Skagerrak

The sea surface temperature varied from 14.0 °C to 15.5 °C. All nutrients showed, in the surface layer, typical concentrations for the season. Nitrite and nitrate were below the detection limit (<0.02 and <0.10 µmol/l resp.), phosphate around 0.1 µmol/l and silicate between 0.2 and 3 µmol/l. The oxygen saturation in the bottom water was around 80 % in the whole area.

The Kattegat and the Sound

The surface temperature was approximately 15 °C in the area. Nitrite- and nitrate concentrations were below the detection limits; phosphate varied between 0.1 and 0.2 µmol/l. Silicate varied from ca. 2 µmol/l in the north to 10 µmol/l in the south (The Sound). The lowest oxygen concentrations were measured in the Skälderviken area, 1.84 ml/l corresponding to 29% saturation. In the Sound and in the Laholm Bay the concentrations were just above 2 ml/l, between 30 and 40 % saturation. In the rest of the area no values below 50% were observed.

PARTICIPANTS

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APPENDICES

- Map showing bottom oxygen concentrations
- Monthly average plots for selected stations