## "SOLEA"

## Cruise 644

## REPORT

16.08. - 01.09.2011

## Personnel

| Name | Institution |
| :--- | :--- |
|  |  |
| Kay Panten | SF |
| Thomas Kehlert | SF |
| Christine Petersen-Frey | SF |
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| Theresa Conradi | SF |
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## Objectives

1. To participate in the ICES co-ordinated "International Beam Trawl Survey" in the North Sea
2. Biological monitoring of the fish fauna in proposed FFH protected areas in the German Bight
3. Distribution of temperature and salinity in the area of investigation

## Narrative (Fig. 1)

The port of Cuxhaven was left on 16.8., steaming over night with good weather conditions to the area scheduled for the Beam Trawl Survey west of Sylt, north of the Danish border (ca. $55^{\circ} \mathrm{N}$ ). On the fourth day of the survey priority was given to monitoring the FFH area "Dogger Tail End". The following days the offshore stations were sampled with different courses depend on wind direction and wind force. On August 26 the BTS was finished and a gale-force wind forced the stay in Esbjerg Harbour for four days. With this opportunity the representative of multimar left the ship with the up to now attained aquarium stock. Back at sea the FFH monitoring was continued at "Sylter Außenriff". Due to loss of time "Borkum Riffgrund" can't carried out this year. The cruise ended in Cuxhaven in the evening on 31.8.

## Results (Fig. 2-7)

A total of 55 half an hour and valid hauls were made using the 7 m beam trawl. Additional 2215 min hauls were carried out in the FFH areas. At 61 stations salinity and temperature were measured.
The species composition distribution showed the usual geographic pattern with dab as the most frequent fish, followed by plaice and grey gurnad.
Toward the north and the west soon the importance of long rough dab and starry ray in the biomass increases. Still, in the survey area some larger (up to 50 cm ) plaice can be found, although quite sporadically.

Also in the FFH areas, nothing unusual was caught. In the Sylt area the common starfish (Asterias rubens) dominates with more than $80 \%$ in the catch composition.


Dipl.-Biol. K. Panten


Fig. 1: "Solea", Cruise no. 644 , Haul positions and area of investigation

Catch composition and length distribution during Beam Trawl Survey


Fig. 6: Length distribution of Plaice in 39-43F4\&5

## Catch composition and length distribution during FFH Monitoring



