Institut für Seefischerei



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"SOLEA"

Cruise 593

REPORT

14.08. - 28.08.2008

Personnel

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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 14.8., steaming over night with strong west wind to the area scheduled for the Beam Trawl Survey west of Jutland, north of the Danish border (ca. 55°N). On the second day of the survey priority was given to monitoring the FFH area "Dogger Tail End". The following days the offshore stations were sampled from south to north, while the inshore stations were investigated from north to south. On August 23 the BTS-part was finished, and the FFH monitoring was continued at "Sylter Außenriff". A call to Esbjerg Harbour served for a staff exchange and the unloading of the aquarium stock. The last station in the FFH area "Borkum Riffgrund" was finished on 27.8 and the cruise ended in Cuxhaven on 28.8.

Results (Fig. 2 – 10)

A total of 44 half an hour and valid hauls were made using the 7m beam trawl. Additional 32 15min hauls were carried out in the FFH areas. At 52 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.

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 80% in the catch composition.

Dipl.-Biol. K. Panten

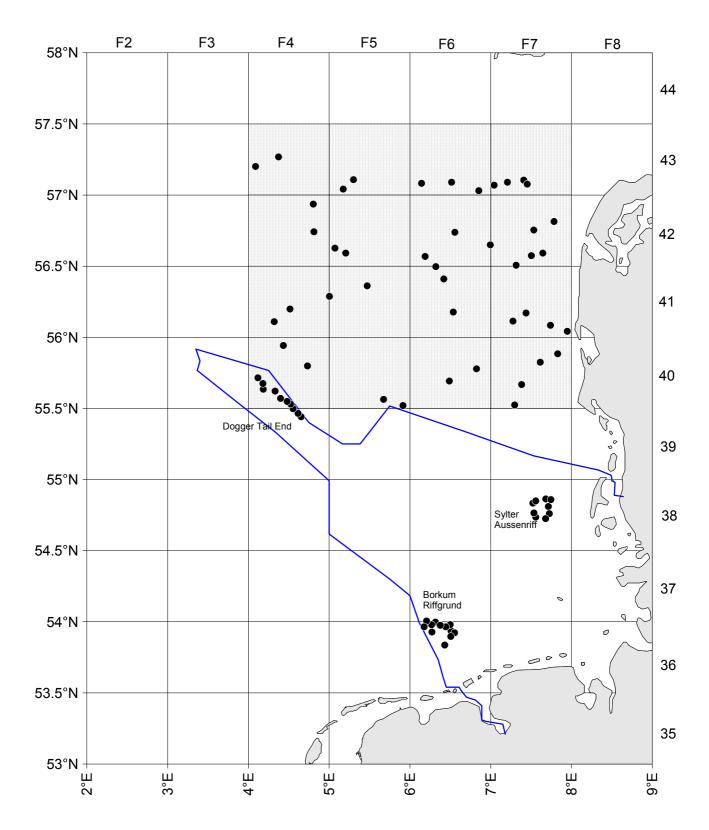
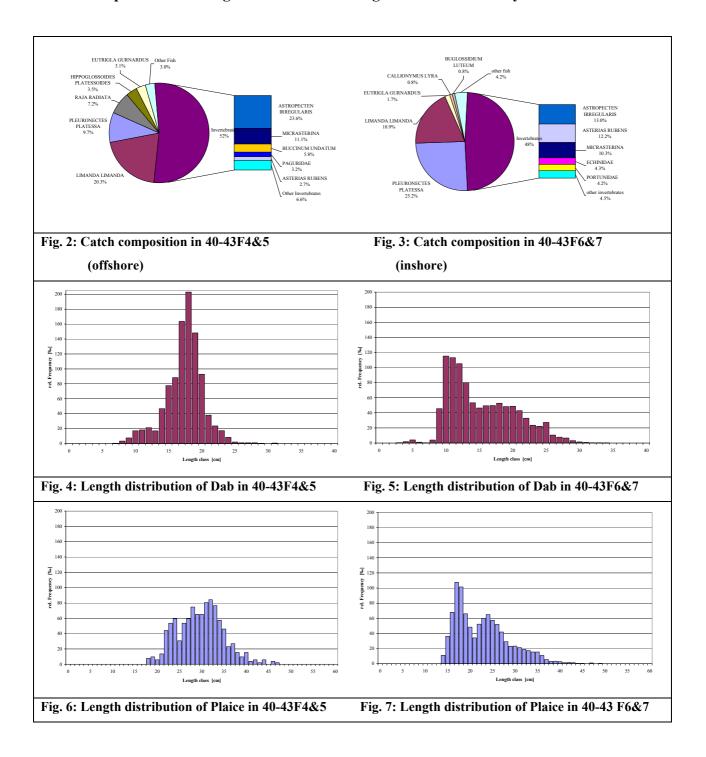


Fig. 1: "Solea", Cruise no. 593, Haul positions and area of investigation

Catch composition and length distribution during Beam Trawl Survey



Catch composition and length distribution during FFH Monitoring

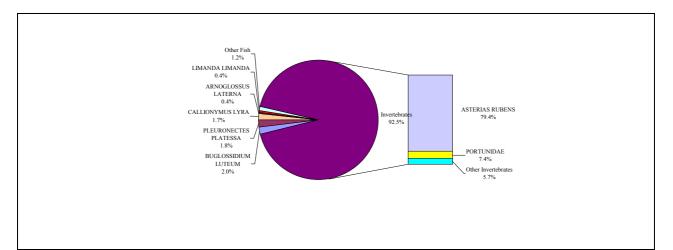


Fig. 8: Catch composition in FFH-Area "Sylter Aussenriff"

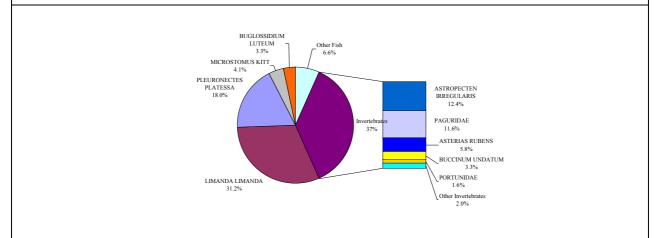


Fig. 9: Catch composition in FFH-Area "Dogger Tail End"

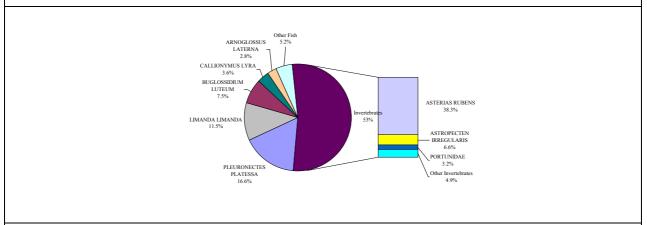


Fig. 10: Catch composition in FFH-Area "Borkum Riffgrund"