Institut für Seefischerei



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25.10.2010

Az.: Pa../v.S./3142

"SOLEA" REPORT Cruise 626 12.08. - 27.08.2010

Personnel

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Florian Krau	SF
Birger Kreutz	Multimar
Friedericke Lange	SF

Objectives

- 1. To participate in the ICES co-ordinated "International **B**eam **T**rawl **S**urvey" 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 12.8., 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°N). On the third 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 23 the BTS was finished and a gale-force wind forced the stay in Esbjerg Harbour for two 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 26.8.

Results (Fig. 2 - 7)

A total of 55 half an hour and valid hauls were made using the 7m beam trawl. Additional 20 15min 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.

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

G. Panter

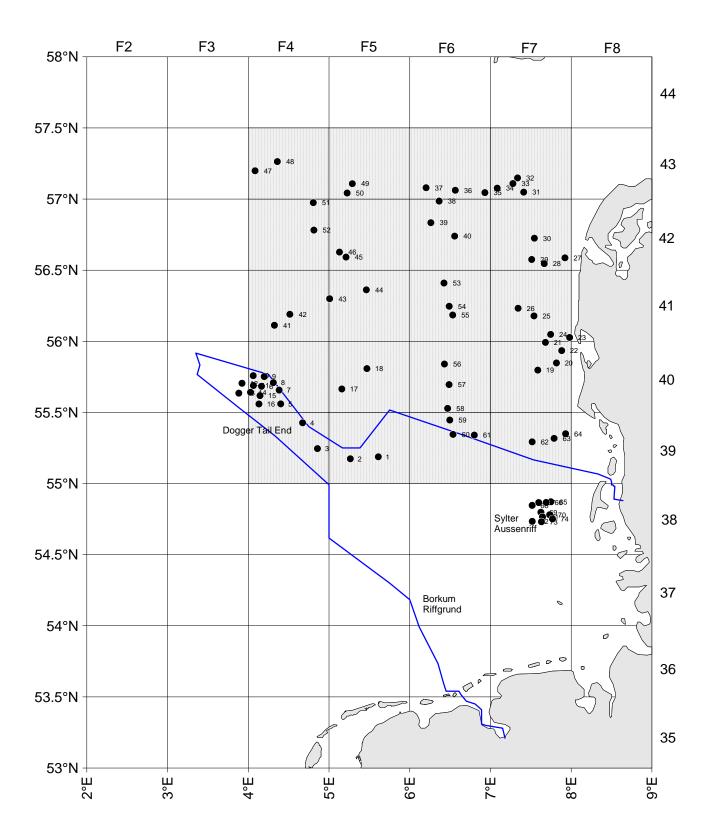
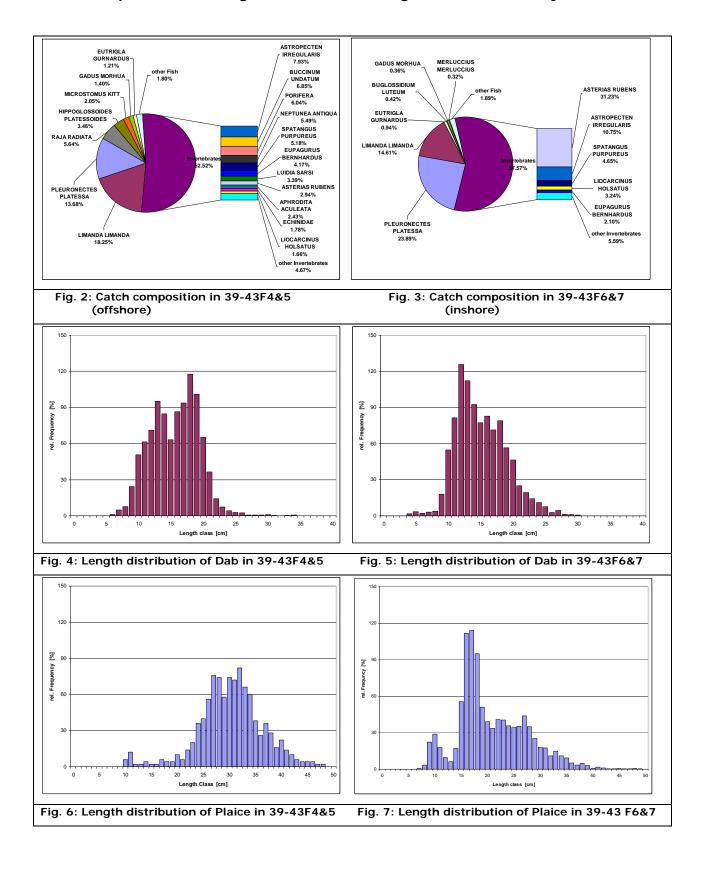


Fig. 1: "Solea", Cruise no. 626, Haul positions and area of investigation

Catch composition and length distribution during Beam Trawl Survey



Catch composition and length distribution during FFH Monitoring

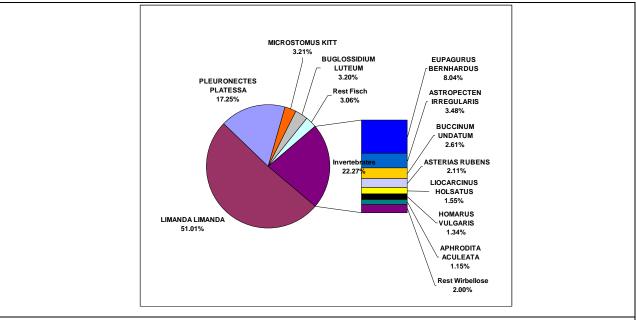


Fig. 8: Catch composition in FFH-Area "Dogger Tail End"

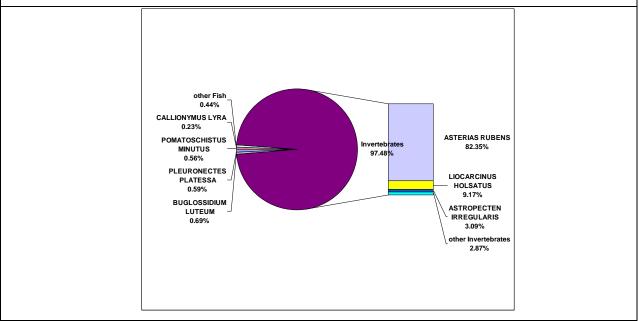


Fig. 9: Catch composition in FFH-Area "Sylter Aussenriff"

CRUISE SUMMARY REPORT

FOR COLLATIMG CENTRE USE

Centre:	DOD	Ref.	No.:
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Is data exchange			\boxtimes
restricted	Yes	In part	No

SHIP enter the full name and international radio call sign of the ship from which the data were collected, and indicate the type of ship, for example, research ship; ship of opportunity, naval survey vessel; etc.

Call Sign: DBFH Name: Solea

Type of ship: FRV

CRUISE NO. / NAME 626

enter the unique number, name or acronym assigned to the cruise (or cruise leg, if appropriate).

CRUISE PERIOD

start (set sail)

<u>12/08/2010</u> day/ month/ year

27/08/2010

end day/ month/ year (return to port)

PORT OF DEPARTURE (enter name and country) Cuxhaven, Germany

PORT OF RETURN (enter name and country) Cuxhaven, Germany

RESPONSIBLE LABORATORY

enter name and address of the laboratory responsible for coodinating the scientific planning of

Name: SF (Institut of Sea Fisheries) Address: Palmaille 9, 22767 Hamburg

Country: Germany

CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of the scientific work (chief of mission) during the cruise.

Dipl. Biol. K. Panten

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE enter sufficient information about the purpose and nature of the cruise so as to provide the context in which the report data were collected.

International Beam Trawl Survey

PROJECT (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperative project (or expedition), then enter the name of the project, and of organisation responsible for co-ordinating the project.

Project name: International Beam Trawl Survey

Coordinating body: ICES WGBEAM

Please continue on separate sheet if necessary

and v	who may b	oe conta	cted for	furtherin	nformatio	on about	the data. (T	ss of the Principal Investigators responsible for the data collected on the cruise he letter assigned below against each Principal Investigator is used on pages 2 hich he/she is responsible)
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SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruise, whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurements/sampling techniques that imply distinctly different accuracy's or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line - it's description may extend over several lines if necessary.

NO, UNITS: for each data set, enter the estimated amount of data collected expressed in terms of the number of 'stations'; miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

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			TYPE	Identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameters measured. Include any supplementary information that may be appropriate, e. g. vertical or horizontal profiles, depth
see	see above	see above	Enter	measured. Include any supplementary information that may be appropriate, e. g. vertical or horizontal profiles, depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, an indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken.
page 2			code(s)	should be given or the type of analysis planned, i.e. the purpose for which the samples were taken.
			from list on cover	
			page	
Α	75	Hauls	B18	Beam Trawl
Α	75	Hauls	B19	Beam Trawl
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TRACK CHART: You are strongly encouraged to submit, with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken.

Insert a tick(') in this box if a track chart is supplied



GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

North Sea

SPECIFIC AREAS: If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates. **Please insert here the number of each square in which data were collected from the below given chart**

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