

FRV WALTHER HERWIG III

Cruise 260: IBTS 2004 (I)

REPORT

21.01. – 17.02.2004

Participants

Gerd Wegner	BFA für Fischerei, Hamburg (in charge)
Wolfgang Ahlers	BFA für Fischerei, Ast. Cuxhaven
Annika Elsheimer	BFA für Fischerei, Hamburg
Frank Fuhr	BFA für Fischerei, Hamburg (student helper)
Horst Haidn	BFA für Fischerei, Hamburg
Gitta Hemken	BFA für Fischerei, Hamburg
Sakis Kroupis	BFA für Fischerei, Hamburg
Lydia Peters	BFA für Fischerei, Hamburg (student helper)
Ursula Siment	University of Graz (voluntary helper)
Ingo Wilhelms	BFA für Fischerei, Hamburg

Objectives

1. Participation in the ICES co-ordinated 'International Bottom Trawl Survey' 2004 (I) in the North Sea
2. Distribution of temperature, salinity and nutrients in the area of investigation

Narrative

Time schedule

21.01.2004, 10:30	Departure Bremerhaven
21.01., 18:00	Start of MIK sampling in northern German Bight
22.01.-04.02.	Sampling in the central and western areas
04./06.02.	Break in Lerwick, Shetland
06.02.-16.02.	Sampling in the northern and eastern areas
17.02.2004, 11:00	End of survey in Bremerhaven

According to the international ICES program coordinated by the Netherlands (RIVO-DLO) the rectangles assigned to Germany in the northern and central North Sea were fished by means of the ICES standard bottom trawl GOV during daytime and by the pelagic herring larvae net MIK during night. Additionally, temperature and salinity measurements and nutrient samples were taken in each rectangle.

Results

Except one larger herring haul, the total catches of the 70 GOV hauls were within the variations of the preceding years. With respect to the species, the numbers of individuals decreased for all species except herring, sprat, mackerel, and pollack. Although giving a totally incomplete view, a comparison of the German 1-group fish numbers from the period 2000 to 2004 in the ICES roundfish areas (see table) demonstrates the still disappointing recruitment situations.

Numbers of 1-group (ICES def.; 60 min trawling time)

year	area	herring <20cm	cod <25cm	haddock <20cm	whiting <20cm	mackerel <25cm	sprat <10cm	Norw. pout <15cm
2000	1	2928	90	169298	2517	850	4	544125
2001	1	4942	99	35166	2090	12402	150	153505
2002	1	166	8	6706	290	11744	2	135152
2003	1	452		1897	239	2231		156941
2004	1	10	2	638	187	2744		34734
2000	2	101210	454	77402	8725	10	237	198464
2001	2	18388	40	2190	1361	131	6	27779
2002	2	49752	35	227	3890	98		5130
2003	2	19921	2	48	455	207	2	2913
2004	2	700	99	28	959	4		877
2000	3	25220	98	63226	34144	4	4129	40930
2001	3	7618	6	12364	7321	6	2288	17008
2002	3	1427	74	970	3675	10	10758	16753
2003	3	1533	2	242	6100	4	254	9470
2004	3	830	64	7698	17915		7543	55857
2000	6	115713	66	224	57884	93	37249	
2001	6	30567	6	12	143964	4	34835	
2002	6	28266	8		236		8105	
2003	6	44815	2		466		13205	
2004	6	6287	12		80		671	

The distribution of the herring larvae caught by the MIK was similar compared with the year. Larger concentrations were spread over a larger offshore area in the north-western North Sea.

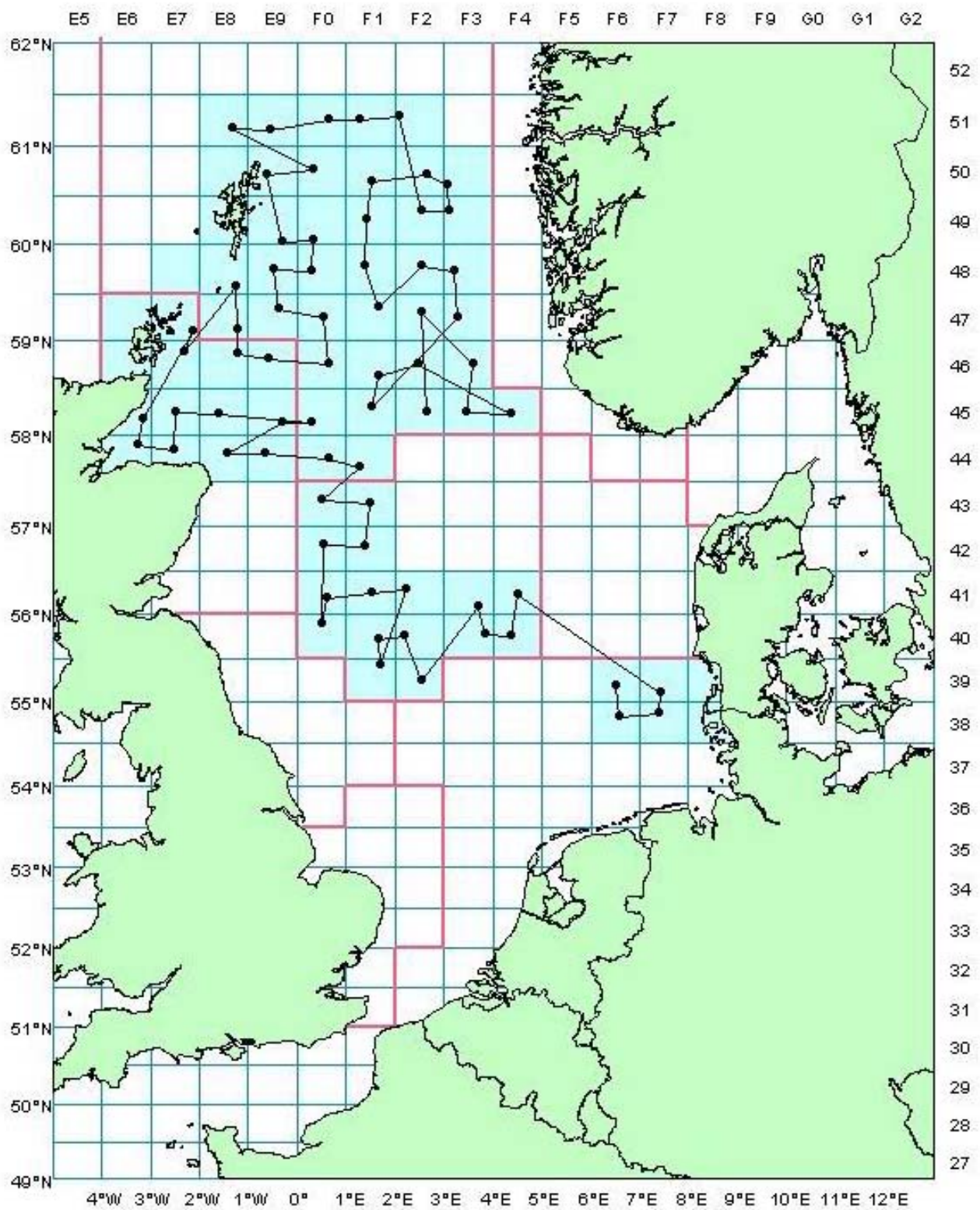
The hydrographic situation was characterized by temperatures of 0.7 –1.7 K and salinities of 0.1ppt above the long term mean values in the whole area.

Inside the northern North Sea herring stock, the prevalence of ichtyophonus amounted 17 % for smaller catches, the mean value was 2.6 %.

Gerd Wegner

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IBTS 2004 1. Quartal Walther Herwig 260. Reise



CRUISE SUMMARY REPORT

FOR COLLATING CENTRE USE

Centre: DOD Ref. No.:

Is data exchange Yes In part No
restricted

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.

Name: Walther Herwig IIICall Sign: DBFRType of ship: FRVCRUISE NO. / NAME WH 260

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

CRUISE PERIOD start 21/01/2004 to 17/02/2004 end
(set sail) day/ month/ year day/ month/ year (return to port)

PORT OF DEPARTURE (enter name and country) Bremerhaven (Germany)PORT OF RETURN (enter name and country) Bremerhaven (Germany)

RESPONSIBLE LABORATORY enter name and address of the laboratory responsible for coordinating the scientific planning of the cruise

Name: BFA für Fischerei, Institut für SeefischereiAddress: Palmaille 9, D - 22767 HamburgCountry: Germany

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

G. Wegner, Institut für Seefischerei

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.

National part of:

International Bottom Trawl Survey 2004 - 1,
ICES coordinated

General operational methods:

- bottom trawling (GOV)- Plankton hauling (MIK)- CTD profiling and nutrient sampling

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:

Coordinating body:

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



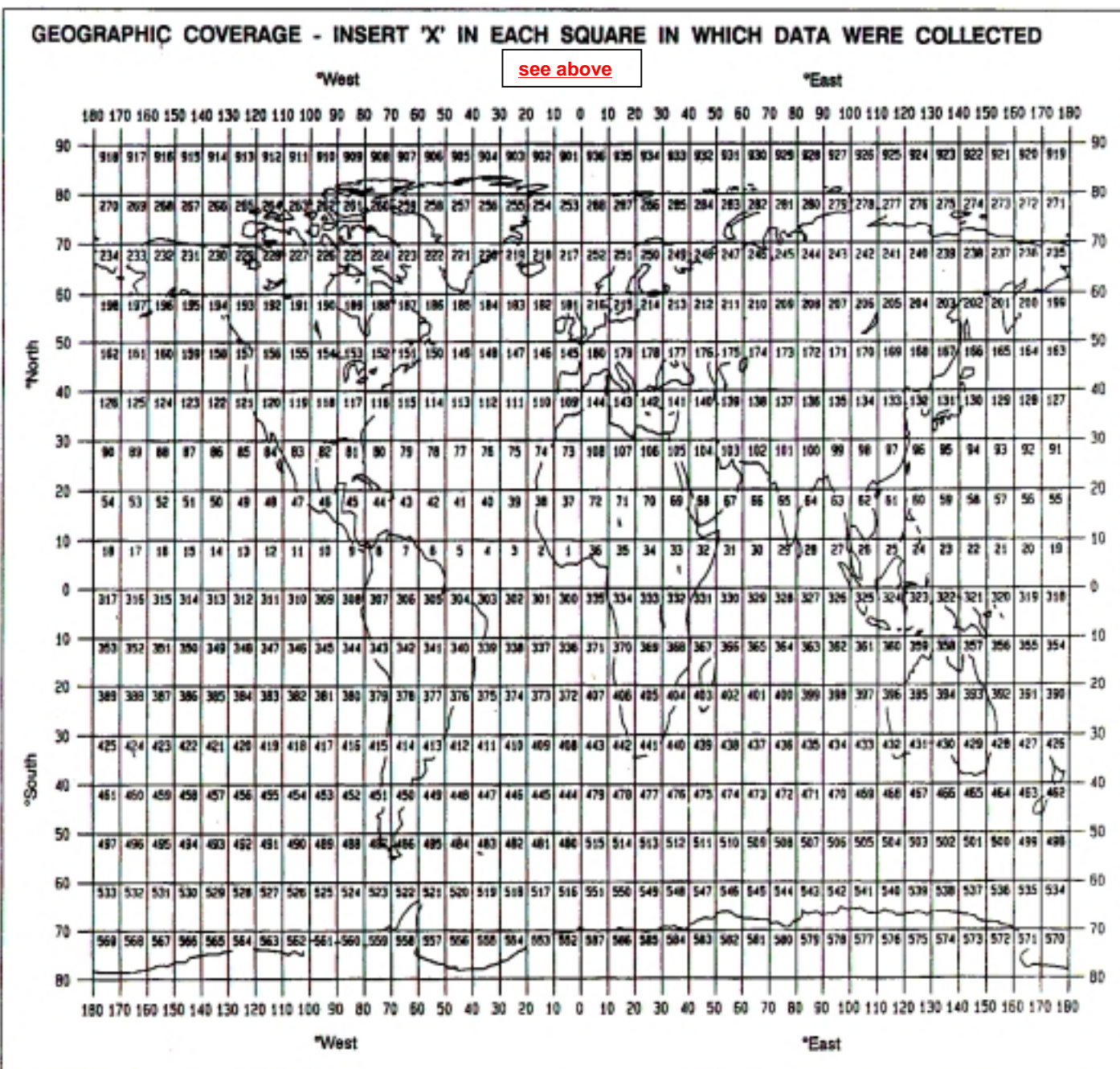
GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

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

North Sea: 181, 216, 217 252



THANK YOU FOR YOUR COOPERATION

Please send your completed report without delay to the collating centre indicated on the cover page