

# 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: FRV „Walther Herwig III“

Call Sign: DBFR

Type of ship: Fisheries Research Ves

CRUISE NO. / NAME WH240

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

CRUISE PERIOD start **21/06/2002** to **12/07/2002** end  
(set sail) day/ month/ year day/ month/ year (return to port)

PORT OF DEPARTURE (enter name and country) **Bremerhaven (GER)**PORT OF RETURN (enter name and country) **Bremerhaven (GER)**

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

Name: Institut für Seefischerei, Bundesforschungsanstalt

Address: Palmaille 9, D-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.

Dr Christopher Zimmermann, Inst 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.

Cruise WH240 was conducted in the framework of the international hydroacoustic survey on pelagic fish in the North Sea, which is co-ordinated by an ICES planning group. Further contributors to the quasi-synoptic survey are the national fisheries research institutes of Scotland, Norway, Denmark and The Netherlands. The results are delivered to the ICES herring assessment working group, they represent since 1984 the most important fishery independent data for the assessment of herring stocks in the area.

Acoustic measurements were conducted between 0600 and 2200 on East-West or North-South transects with 15 nm distance inbetween. For the identification of echo traces and further biological sampling, 37 hauls with

**Objectives:** Hydroacoustic recording of pelagic fish stocks, biological sampling for the verification of echos, calibration of the hydroacoustic equipment, intercalibration with other vessels participating in the survey, hydrographic investigations.

**Narrative:** FRV “Walther Herwig III” left the port of Bremerhaven in the evening of June 21st, and calibrated the hydroacoustic equipment under favourable conditions in the morning of June 22nd off Helgoland. Therefore, it was not necessary to sail to Kristiansand. Until June 25th, the vessel surveyed areas with historically low density of clupeids, as fishing was not possible due to a failure of the fishing winch. “Walther Herwig III” returned to her home port for repair until June 29th and covered the remaining area with frequent sampling until July 11th. The planned intercalibration with the dutch FRV “Tridens” had to be postponed to next year as she was already behind schedule. “Walther Herwig III” reached Bremerhaven at 12th July 2002 at noon, having sailed 2840 nm.

An extended cruise report giving age disaggregated abundance and biomass of clupeids and detailed hydrographic data will be available after final data and sample evaluation in early December 2002. This report will be delivered to and published by the ICES Planning Group for Herring Surveys.





**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



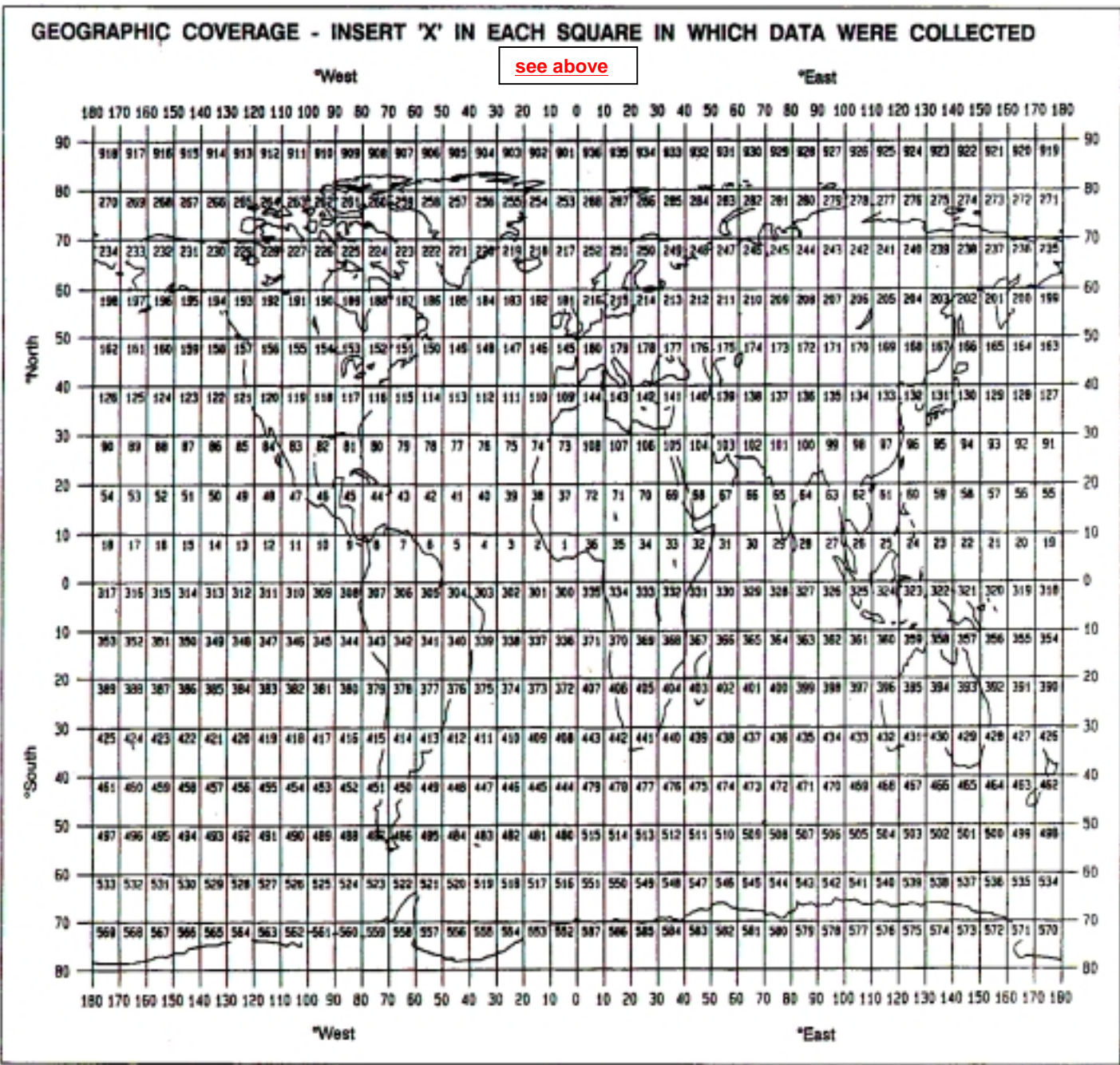
**GENERAL OCEAN AREA(S):** Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

**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.

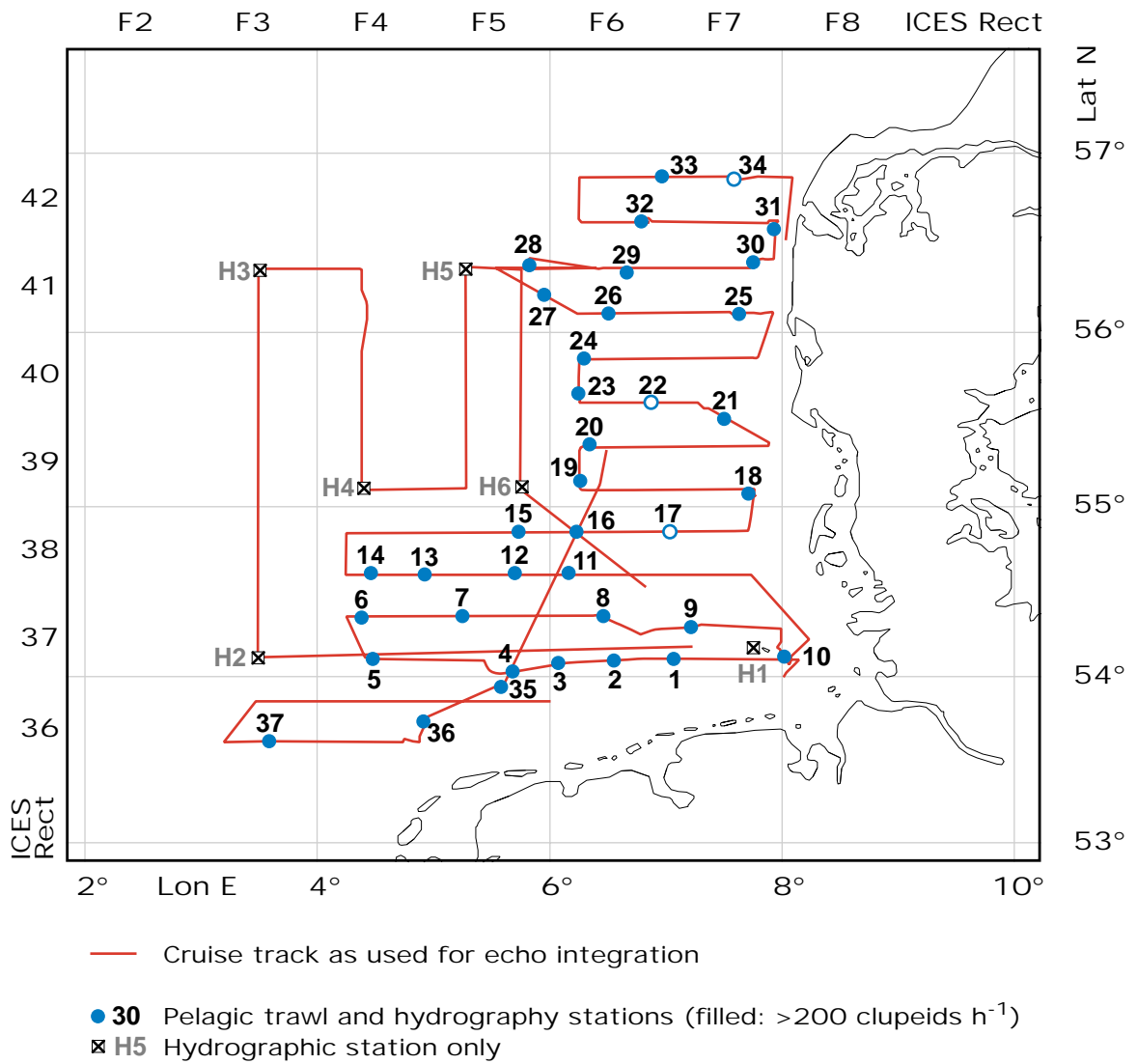
**Please insert here the number of each square in which data were collected from the below given chart**

**216**  
**Dogger, German Bight, Fisher**



**THANK YOU FOR YOUR COOPERATION**

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



**Figure 1.** FRV "Walther Herwig III", cruise 240: International hydroacoustic survey on herring in the North Sea, 21 June 2002 -12 July 2002: **Cruise track** and positions of trawl- and hydrographic stations.