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MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND

1985 RESEARCH, VESSEL PROGRAMME

REPORT: RV CIROLANA CRUISE 7/85

STAFF:

- D Harding SIC and the second of the first through the second of the first through the first through the second of the second of
- R G Houghton
- B C Bedford
- L E Woolner

- T Boon
 B Rackham
 B Russell
 R Flatt
 R Avers

- R Ayers (Luton) The first the first transfer of the first transfer of the fort transfer to
- N Pearson (part time)

DURATION:

LOCALITY: The state of the stat

- North Sea

 AIMS:

 1. To carry out a groundfish survey of the North Sea using a standard Granton trawl in order to obtain information on:
 - i) the distribution and abundance of all fish species caught in the માં તાલાક મહેલા કેટલાં કરેલા માટે કે માટે માટે પ્રાથમિક કરાયા કરેલા કરેલા કરેલા કરેલા કરેલા કરેલા કરેલા કરેલા તાલું જો કારણ પાલાક પ્રાથમિક પ્રાથમિક માટે માટે માટે માટે કરેલા કરેલા કરેલા કરેલા કરેલા કરેલા કરેલા કરી છે. જો trawl;
 - ii) the length and age distributions of commercially important gadoids;
 - iii) the distribution of fish in relation to environmental parameters:
 - iv) the distribution and relative abundance of macro benthos
 - v) gadoid interactions through collections of stomachs from cod and whiting for the ICES programme on stomach analysis;
 - vi) the distribution of caesium in fish flesh via trawl samples of fish
- Collect water (samples: for caesium) analysis from the pumped water supply and using Niskin bottles. More a true and the main that continue the first true of
- Constitution of the search of the control of the first of the control of the cont Sample the environment using electronic sensors either in the pumped water supply or by deploying the instruments in a sampling frame. The state of the state
- - a) the Granton strawl; the designs who we sike that it is contained in the terminal b) an Agassiz trawl with meter wheel filled to:give distance measurements;
 - c) a Day grab at selected stations.
- to provide and the latter of the state of the All, biological data will be entered on the computer to create a database for this cruise and summarise results before the cruise ends, the remit of a factor of the cruise ends, the remit of a factor of the cruise ends, the remit of a factor of the cruise ends, the remit of the remit of the cruise ends, the remit of the remit of the remit of the cruise ends, the remit of the remi
- All electronic instruments will be data logged and programmes used to extract and present results in graphics format.

- 7. Collect live specimens of fish for Mr Scholes including Myxine, 20 adult ? dabs, 10 small cod (<20cm) and 5 soles (<20cm).
- 8. Collect whiting samples for a research project on Lernaeocera branchialis based at Kings College, London.
- 9. Release drift indicators for Turbot larvae off the NE Coast.
- 10. Collect a small halibut (70-100cm) for the archaeology unit at Cambridge University.

NARRATIVE:

RV CIROLANA left Lowestoft at 0800 h GMT, 13 August 1985 and sailed for the first fishing station in the centre of the Southern Bight of the North Sea. Fishing commenced at 1325 h GMT and at this station the routine for operating the Agassiz trawl and a profiling frame containing CTD and Aquatracka was established. Shipboard sensors including a second shallow water CTD and Turner 10 fluorometer were also tested. All these instruments were linked to the computer along with the output from the RACAL-DECCA and programmes used to log data at fixed time intervals when operating.

The pattern of work proposed for this cruise was similar to that carried out in previous years although the cruise track was modified slightly to allow Mr Pearson to join the ship for two days while working stations of the NE coast of England, so that he could carry out tests with the Lowestoft and Scanmar headline height and wing - spread measuring instruments. On this cruise CIROLANA put into Lerwick for 24 hrs on 30 August for a mid cruise break and later on 6 September had to divert to the Tyne to put one of the scientific staff ashore for dental treatment. Three trawl stations were lost as a result of this diversion and two more due to bad weather conditions and gear damage.

Benthos samples were obtained from the main trawl at each fishing station and from the Agassiz trawl at selected stations mainly in the Northern North Sea. The day grab was used on one station and failed to function because of damage to the lid which could not be repaired.

Environmental sensors for temperature, salinity and chlorophyll 'a' were operated throughout the cruise by pumping sea-water over these sensors deployed in a tank on deck or in the hydrographic laboratory. These were logged at five minutes intervals along with the ships position. The profiling CTD and Aquatrack was deployed at all deep stations to measure temperature, salinity, oxygen and chlorophyll 'a' against depth and the output of the CTD logged against ships position.

AEP1 requirements for sampling water for Cs analysis were accomplished by sampling at or en route to fishing stations, and fish samples for Cs analysis were obtained from selected trawl hauls in selected areas of the N Sea.

Computer failures occurred from time to time but were overcome on each occassion, the most drastic of those failures occurred on the 31 August and could only be corrected by transferring all the circuit boards to the second computer cabinet. Problems still occurred after this transfer but were quickly overcome. These failures may be linked to the resiting of the computer in an enclosed environment in which the air circulation is inadequate and in which over heating occurs.

Following the final trawl hauland the CTD station near the Tail End of the Dogger Bank, CIROLANA sailed overnight to a position just north of the New Zealand ground where the final half-hour tow was made to collect live dabs for Mr Scholes. Following this haul the ship sailed for Lowestoft while gear was dismantled and packed, the laboratories cleaned and data summaries made for all fish and benthos using the new fishing survey data base.

CTROLANA lay overnight in Corton Roads and entered Lowestoft harbour at 10600 h GMT 2000 on 11 September thus concluding the ninth annual groundfish survey of the North Sea.

RESULTS:

Aim 1. Seventy-four fishing stations were worked successfully including all but three of the primary stations. Figure 1 shows the cruise track and fishing positions.

At each station fished by the Granton trawl the weight of each species of fish and shellfish of commercial importance was recorded along with minor species of fish and the total weight of benthos taken in the trawl. Length distributions of all species were taken and numbers calculated from the length subsamples. Counts were made of each benthos species recorded. All this data was input to the computer and data summaries made on the last day of the cruise. Table 1 illustrates the total catch of fish and benthos for all trawl hauls in the North Sea on the 1985 survey.

Length distributions and otoliths were collected for all fish of commercial importance including cod, haddock; whiting, norway poutsaithe and plaice so that age length keys could be constructed and numbers at age of these species determined. In addition all "monk" were collected for more detailed analysis including whole weight/gutted weight relationships.

2041 stomachs for cod and whiting were collected at selected stations for the ICES programme on stomach analysis.

- Aim 2. Surface samples of sea water were collected at 44 stations for Cs analysis and surface and bottom water collected at 6 stations along latitude 57°N. Fish for Cs analysis were collected in the 12 areas designated.
- Aim 3. On line sensors were run continuously in sea water pumped from 3 metres via the ships PUMP and gave good results apart from on two occassions when instruments failed. The Turner 10 fluorometer had to be replaced on the second day of the survey and the CTD on the 20th day. The CTD and Aquatrackks used to take vertical profiles worked well throughout the cruise and 70 profiles were obtained using these instruments. Data logging of all sensors was successfully carried out throughout this cruise and in addition the ships position was recorded along with these instrument readings using RACAL-DECCA.
- Aim 4. Benthos was sampled by both Granton and Agassiz trawls. That from the Granton was logged with the data on fish while the Agassiz records were recorded in separate data Base. No records were obtained from the Day grab which was damaged beyond repair on the first haul.
- Aim 5. All biological data was entered in the computer using the new fishing survey data base and extractions of data made on the final day of the cruise.
- Aim 6. No graphics output was possible.
- Aim 7. Live male and female dab were obtained for Mr Scholes. Four hagfish were also obtained and kept alive, these were survivors of approximately 20 hagfish collected at three stations at various times during the cruise.
- Aim 8. Whiting samples were collected at 21 stations for a research project on Lernaeocera branchialis based at Kings College, London.
- Aim 9. Sea surface drifters were released at 7 stations, off the NE Coast of England for Mr Riley's project on Drift of Turbot larvae. Two inshore stations were missed due to weather conditions.

Aim 10. Was not achieved.

Ad hoc collections of fish for the fish identification course at Lowestoft and for other requests were also made on this cruise.

D Harding 17 September 1985

Seen in Draft:

G Sinclair (Capt)

P Kay (Skipper)

INITIALLED: D J G

DISTRIBUTION:

Basic List +

D Harding

R G Houghton

B C Bedford

L E Woolner

T Boon

B Rackham

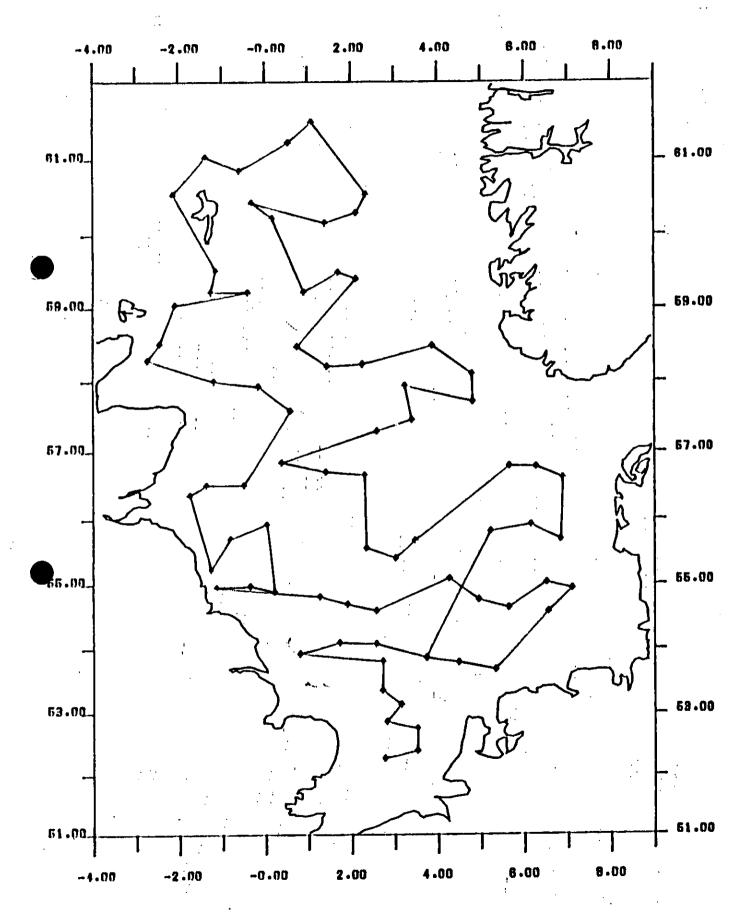
B Russell

R Flatt

R Ayers

Dr G Grammer (Luton)

N Pearson



CIRO 7/86 ORANTON TRANLS

CIROLANA

7785 -

CATCH DETAILS

CODEND ONLY

CIRO 7/85 ALL VALID TRAWL STNS.

TOTAL TIME FISHED 4378mins.

TOTAL WEIGHT CAUGHT = 22595.67 kg

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