

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

1982 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 11

(PROVISIONAL: Not to be quoted without prior reference to the author)

(E) Vi opportunit

tiga (g. 1970) nak kilongé (a apaleng) at lang kapang balik kabadaan ka

By San San Springer

378.4 1 E .:

Commence (Control of Control of C

great the state of a

STAFF, At L. 1911A. The Laid to the Liberton Byon fleron and the control of the c

- P'Scholes 1260 Proposition of the proposition of th

  - G Sutton
  - adio no poro loga es lors interes acris, especiente y el c B Holford

## DURATION:

Left Lowestoft at 1000 h 22 July Arrived Lowestoft at 0530 h 29 July

THE PROPERTY

inclodes to

All times are GMT

LOCALITY:

North Sea Botney Ground

## AIMS:

- 1. To study jointly with RV CLIONE the diurnal movements of plaice on their feeding grounds by midwater trawling.
- To carry out a benthos survey in the area to correlate food occurrence and distribution with feeding.
- To continue measurements of irradiance in the sea.

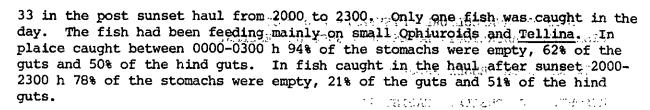
## NARRATIVE:

RV CORELLA sailed from Lowestoft at 0900 h 22 July, proceeded to the work area south of Botney Gut and began work at 2000 h the same day. The ship began midwater trawling from position 53°47.4'N 03°05.4'E to 53°42.8'N 02°58.8'E and back again. RV CLICNE fished a bottom trawl along the same track. Originally the tows were planned to include each day a pre and post sunset haul each of 3 h duration but after it was clear that plaice were also being caught from 0000-0300 h the hauls were rearranged and the final pattern of hauls and the plaice catches are shown in Table 1. On 25 July a series of 12 grab stations were worked along the track and measurements of light intensity at different depths in the sea were made in daylight hours on 23, 24 and 25 July. A total of 20 tows each of three hours duration was made finishing at 1030 h 28 July. The ship then steamed to anchor overnight at Corton and docked at 0530 h 29 July.

## RESULTS:

The fishing results are presented as Table 1 which shows the number of plaice caught in each tow and the timing of each tow during the twenty four hours.

Altogether 50 plaice were caught ranging in size from 26 to 33 cms. Of these 49 were caught in the dark, 16 in the period between midnight and 0300 h and



- The twelve grab hauls showed a rich mud ground at the northern and southern ends of the tow with sandy less productive ground in the middle. The muddy ground was characterised by small Ophiuroids identified as Acrocnida brachiata (apparently the same species which the plaice had been feeding on) with some Pectinaria Mactra and large heart urchins (Echinocardium). The sandy ground had more molluscs and nereids with some tubicolous polychaetes.
- Light measurements. Near surface observations were successfully made but measurements of irradiance in the sea at depth were not possible due to shipboard electrical interference.

P Scholes 4 August 1982

FROM THE TAX OF A CONTRACT BOOK

The state of the s

こうしょういんかい はいしい いっかば 内間 一手

1.725 1.75.7

for 15 to 1 to the General Walt

Table of Article

e et essantia te

The second secon

SEEN IN DRAFT: THE SECOND SECO

G Sinclair M

Master

R C Newrick

.**Ster** The ARCAU Community of March Community on the Community of Arcau Community of the Community of the Community of Fishing Skipper

INITIALLED:

DJG

TURN COMMANDE LA COMPANION DE LA COMPANION DEL C

Basic List + P. Scholes

A Urquhart

G. Sutton

B. Holford

B Holford

THE THE COUNTY OF A SECRET WAS A SHOP OF THE SECRET OF THE 101 engal and the second 

A CAMP I CONTROL OF THE SAME OF THE PROPERTY OF THE SAME OF THE SA I Supplied to 1 Merch 1, 1 and the major of the major of the specific production of the section of the section

Table 1. Number of Plaice caught in midwater at different times of the day.

Dark hauls 2000-2300 h 0000-0300 h GMT

Time of haul	Date - July							
	22	23	24	25	26	27	28	Totals
0000-0300	<del></del>	4	_	-	6	5	1	16
0400-0700		_	_	0	_	. 0	1	1
0730-1030	-	***	0		_	-	0	0
1200-1500	-	0	***	_	-	0		0
1630-1930	-	0	0	0	0	-		0
2000-2300	2	7	8	10	6	_		33