Mrs. P. Edwards
10S Wormley, Plate 359.

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

1981 RESEARCH VESSEL PROGRAMME

REPORT: FRV G A REAY: CRUISE 14

STAFF:

D Harding
L Woolner
J Dann
T W Boon
M W Easey
J Everett

DURATION:

All times GMT

Depart Aberdeen 11.30 hrs 28 October
Arrive Aberdeen 14.00 hrs 16 November

LOCALITY:

Northern North Sea

AIMS:

1. To describe the distribution of gadoids within the Norway Pout fishery area using the semi-pelagic high headline trawl.

2. To obtain biological samples of all gadoids taken within the area during the survey including stomach contents (J Pope), whiting samples (C Brown), Norway Pout samples (K Steele), small gadoids for fish feeding (FCU) selected gadoid samples for fisheries training course (P O Johnson) and selected species for fish weight/gutted weight conversion (B Bedford).

NARRATIVE:

G A REAY sailed from Aberdeen at 11.30 hr 28 October and sailed south to commence work on the standard grid of fishing stations. Because of unfavourable weather the stations near the Scottish east coast were worked first before moving offshore as the weather improved (See Fig. 1). Having completed station 14 on 2 November the ship ran for shelter in the lee of the Orkney Islands where we were storm bound until 6 November. Work continued until Monday 9 November when the ship again ran for shelter under the lee of the Shetland Islands until 10 November. Work recommenced on that date and the northerly stations were completed on the 11 November. G A REAY then steamed south to complete the group of stations in the southern part of the pout box east of Aberdeen. These stations were fished between 12 and 15 November with brief stoppages due to bad weather. Fishing operations were completed at 13.30 hrs 15 November and the ship sailed to shelter in the Moray Firth overnight before returning to Aberdeen.

G A REAY docked at Aberdeen at 1400 hrs 16 November.

RESULTS:

1) 38 trawl stations were fished during this survey of the Norway pout fishery area within the English sector of the Northern North Sea. The catches are detailed in table 1.

2) Length frequency distributions were determined for cod, haddock, whiting, Norway pout, saithe and mackerel and otoliths collected from all gadoids for preparation of age length keys by roundfish sampling areas. Samples of herring and mackerel were frozen for later analysis at Lowestoft.

3) Gut contents were collected at 21 stations from cod, haddock, whiting, mackerel, saithe and Norway pout and preserved ready for analysis by members of the ICES working group on multispecies models.

4) Specimens for whole/gutted weight relationship determination were collected at 27 stations including 24 monk, 38 cod, 166 whiting, 19 ling, 16 hake, 20 saithe, 8 haddock, 65 megrim, 13 witch, 2 catfish and 1 tusk. All were deep frozen for transportation to Lowestoft.

5) Collections of specimen fish for the Fisheries Officers training course, Norway pout for radiobiological analysis and small gadoids for feeding fish (FCU) were frozen ready for transportation to Lowestoft.

D Harding
SIC
1 December 1981

SEEN IN DRAFT:

W P Clarke Master
D J Garrod D Director

DISTRIBUTION:

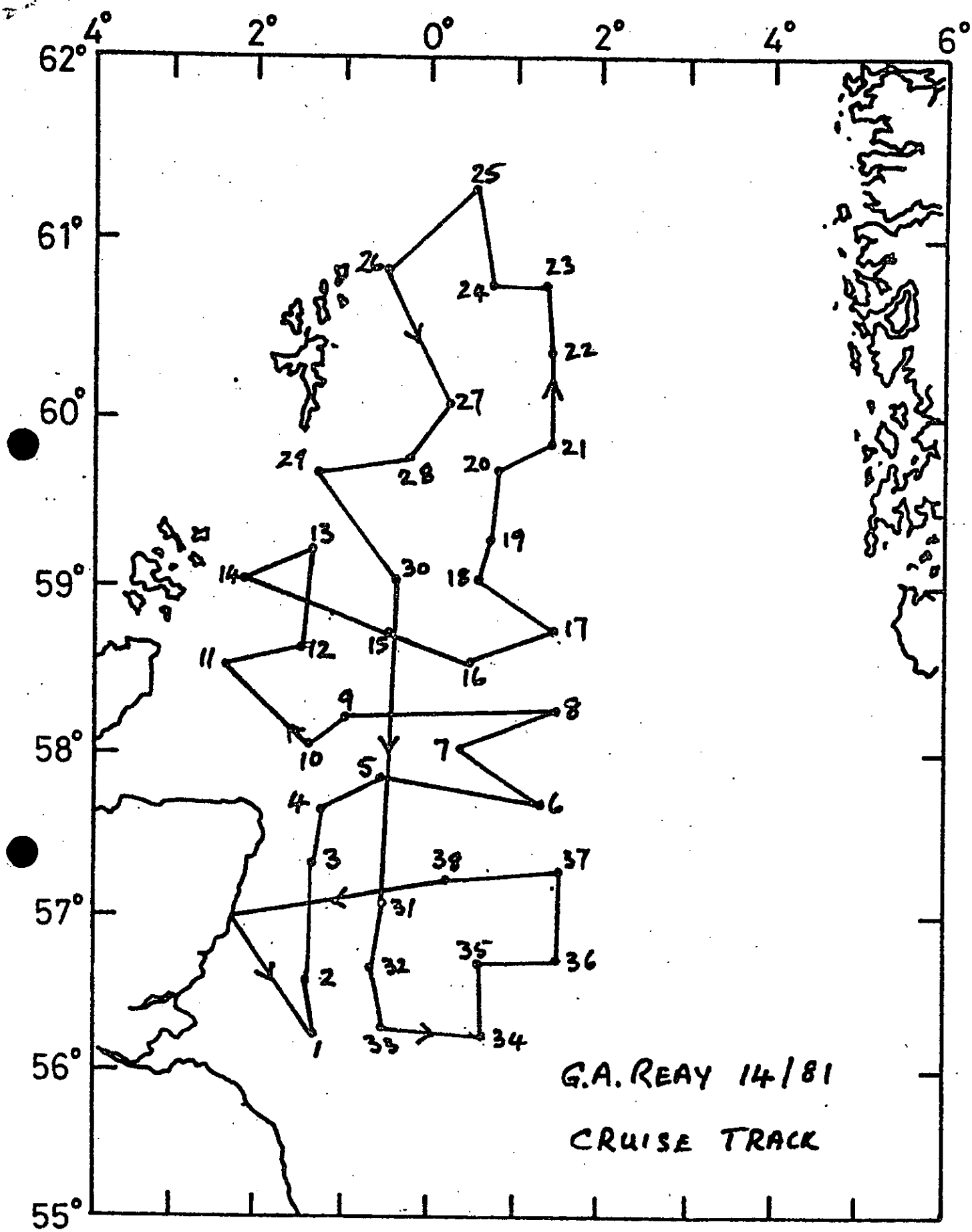
Basic List +

D Harding
L Woolner
J Dann
T W Boon
M W Easey
J Everett

TABLE 1

Catch rates (kg/hr) at each station

STN	DEPTH(m)	NORWAY POUT	COD	HADDOCK	WHITING	SAITHE	TOTAL
1	69	-	<1	78	228	-	415
2	88	-	5	525	18	-	957
3	110	94	14	262	375	-	1015
4	101	187	48	418	165	-	1369
5	99	391	4	184	161	18	937
6	93	247	24	112	142	-	571
7	146	50	99	47	70	-	293
8	107	490	30	216	29	-	869
9	115	370	55	200	130	-	804
10	106	-	12	672	280	-	997
11	79	4	1	1626	1496	-	3408
12	115	520	-	168	42	-	1012
13	115	-	25	1989	2079	-	4167
14	79	17	15	979	51	7	1329
15	127	216	14	162	456	-	999
16	150	203	57	77	15	6	2710
17	114	400	43	640	360	-	1500
18	147	80	55	288	864	5	1302
19	138	664	40	513	405	7	1652
20	124	893	16	293	61	-	1280
21	124	140	14	1392	72	-	1670
22	152	756	16	79	7	-	919
23	152	736	57	162	8	24	1015
24	147	122	170	153	2	7	585
25	170	81	9	69	<1	16	211
26	134	58	39	616	39	1	894
27	152	475	230	133	<1	-	901
28	138	171	25	446	84	-	845
29	134	120	<1	440	122	-	758
30	143	361	-	187	143	-	708
31	91	2	66	1204	4472	-	6116
32	74	-	7	119	910	-	1310
33	74	-	8	167	432	-	2079
34	79	-	4	396	729	-	1555
35	97	6	15	614	570	-	1302
36	101	14	124	1463	445	-	2080
37	97	6	134	420	400	-	1005
38	90	-	65	1693	1492	-	5786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G.A. REAY 14/81
CRUISE TRACK