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INTERNATIONAL COUNCIL FOR
THE EXPLORATION OF THE SEA

C.M. 1976 / F : 20
Demersal Fish
(Northern) Committee.

COMPILATION OF THE GADOID DATA COLLECTED DURING THE INTERNATIONAL YOUNG HERRING SURVEY 1976.

*) General Secretary of the International Council for the Exploration of the Sea, Charlottenlund Slot, DK-2920 Charlottenlund, Denmark.

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COMPILATION OF THE GADOID DATA COLLECTED DURING THE INTERNATIONAL YOUNG HERRING SURVEY 1976.

Tables I a - h present the numbers of I-group, II-group and older cod, haddock, whiting and Norway pout caught per hour fishing in individual hauls by each of the different participating countries.

Figure 1 - 8 present the average catches of I-group and II-group per statistical square for each of the 4 species.

Indices of year class strength were calculated according to the methods outlined in the "Report of the Meeting on abundance estimates of juvenile cod, haddock and whiting from the 'International Young Herring Surveys' in the North Sea"(ICES C.M. 1976/F : 5). The results are given in table III.

The haddock and cod year class 1975 appear to be very poor, whereas the whiting shows an average abundance. The preliminary estimates given in contr. F : 5 which were based on a rough split of the length distributions, were thus confirmed.

Norway pout was included in the analysis only in 1975 (ICES C.M. 1975 / F : 37). The catches of I-group in 1975 and 1976 were in the same order of magnitude, but II-group Norway pout was less abundant in 1976.

Table II a and b summarise the length data for I-group and II-group gadoids respectively.

/MV

*) General Secretary of the International Council for the Exploration of the Sea, Charlottenlund Slot, DK-2920 Charlottenlund, Denmark.

Figure 1 - Mean number per hour fishing of I-group cod (year class 1975).
Figures in brackets represent number of valid hauls.

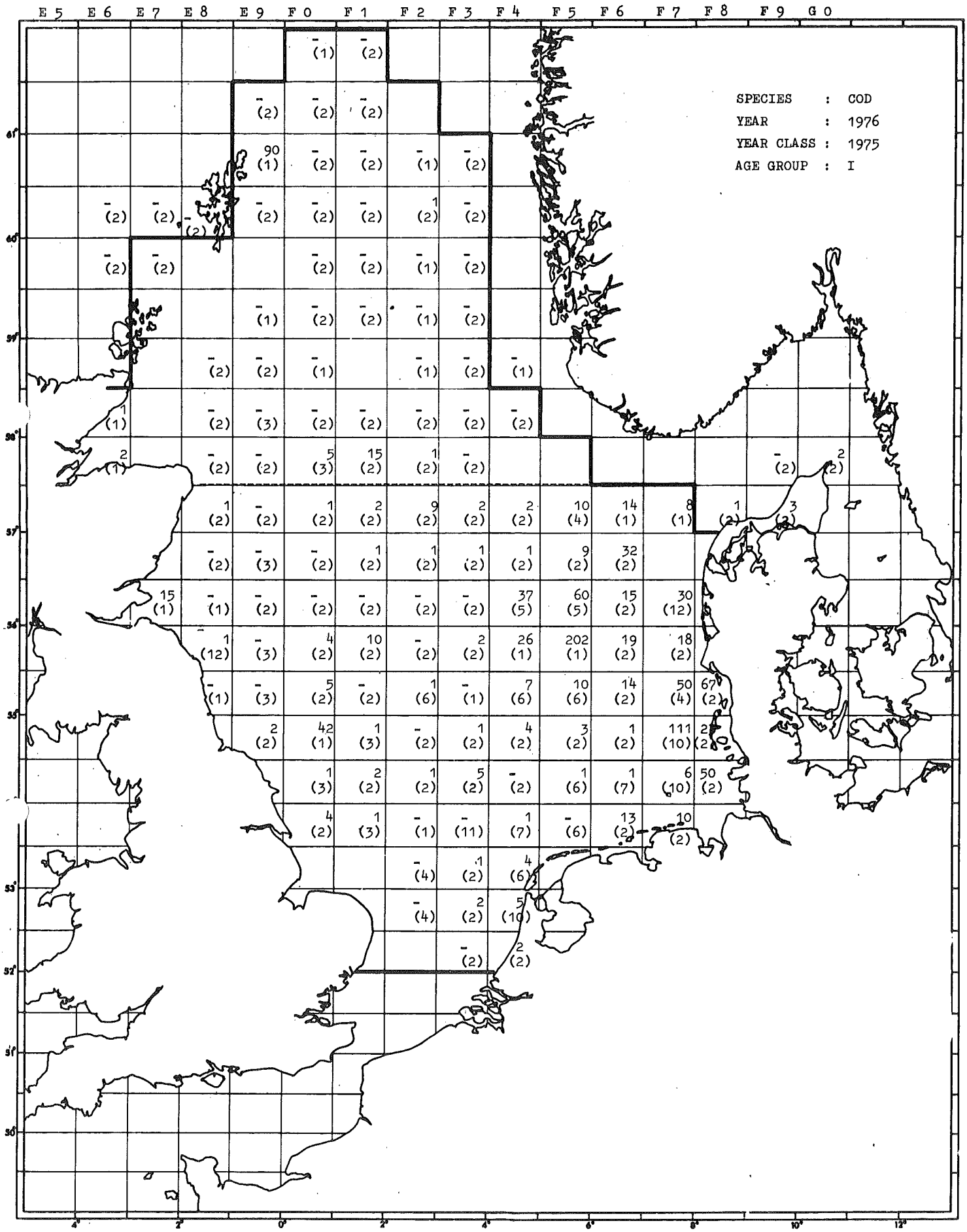


Figure 2 - Mean number per hour fishing of II-group cod (year class 1974).

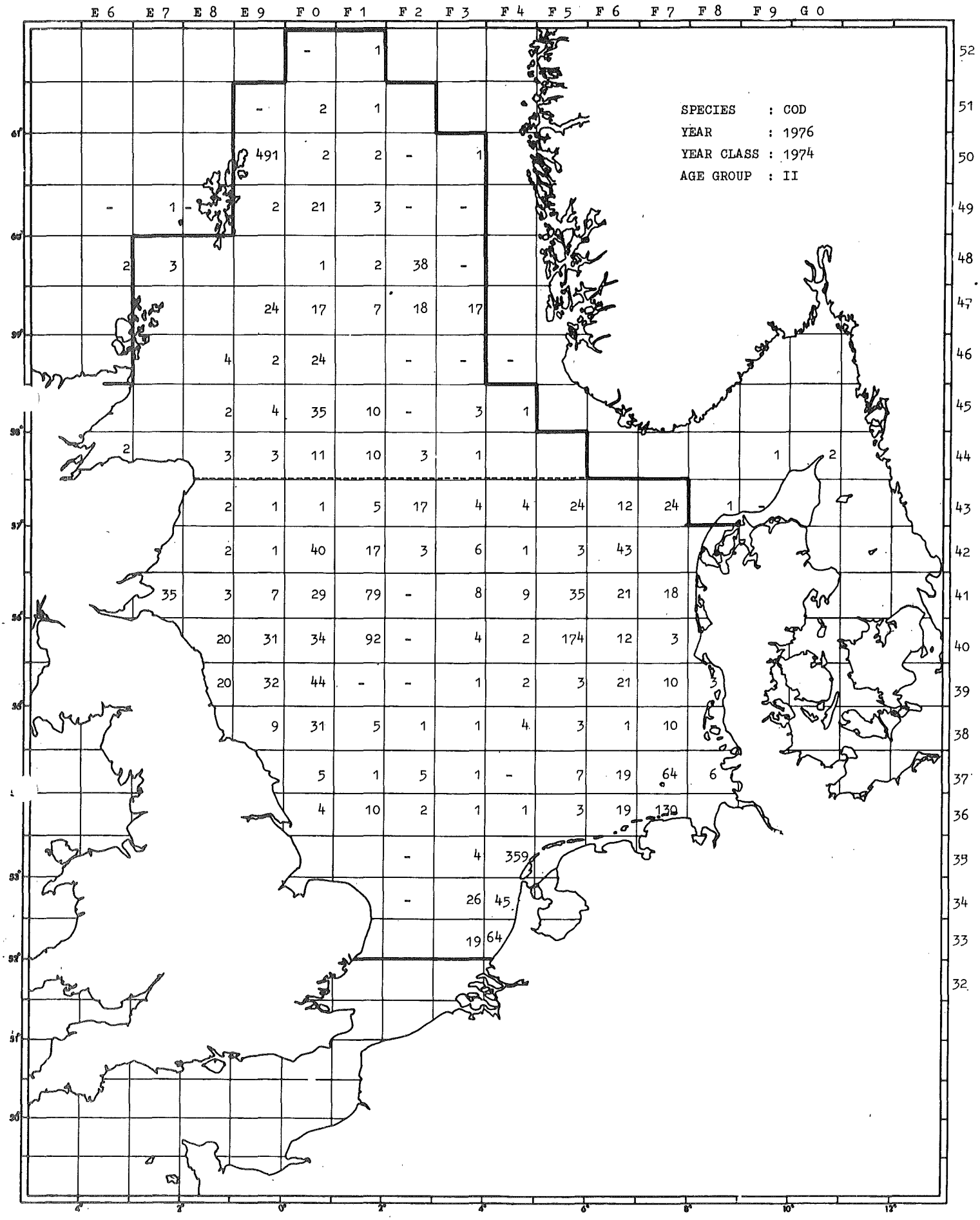


Figure 3 - Mean number per hour fishing of I-group Haddock (year class 1975)
Figures in brackets represent number of valid hauls.

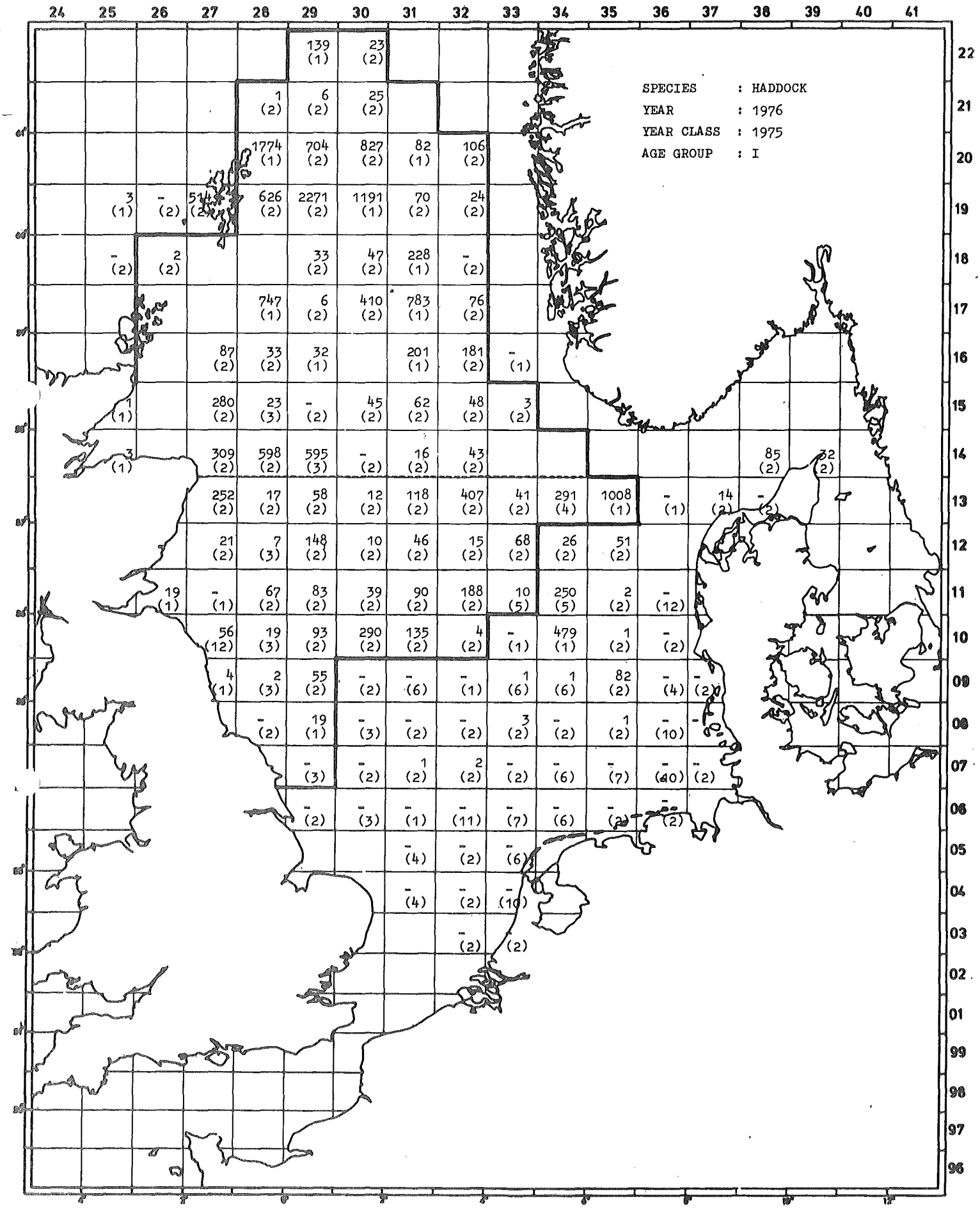


Figure 4 - Mean number per hour fishing of II-group Haddock (year class 1974).
(For number of valid hauls see figure 3).

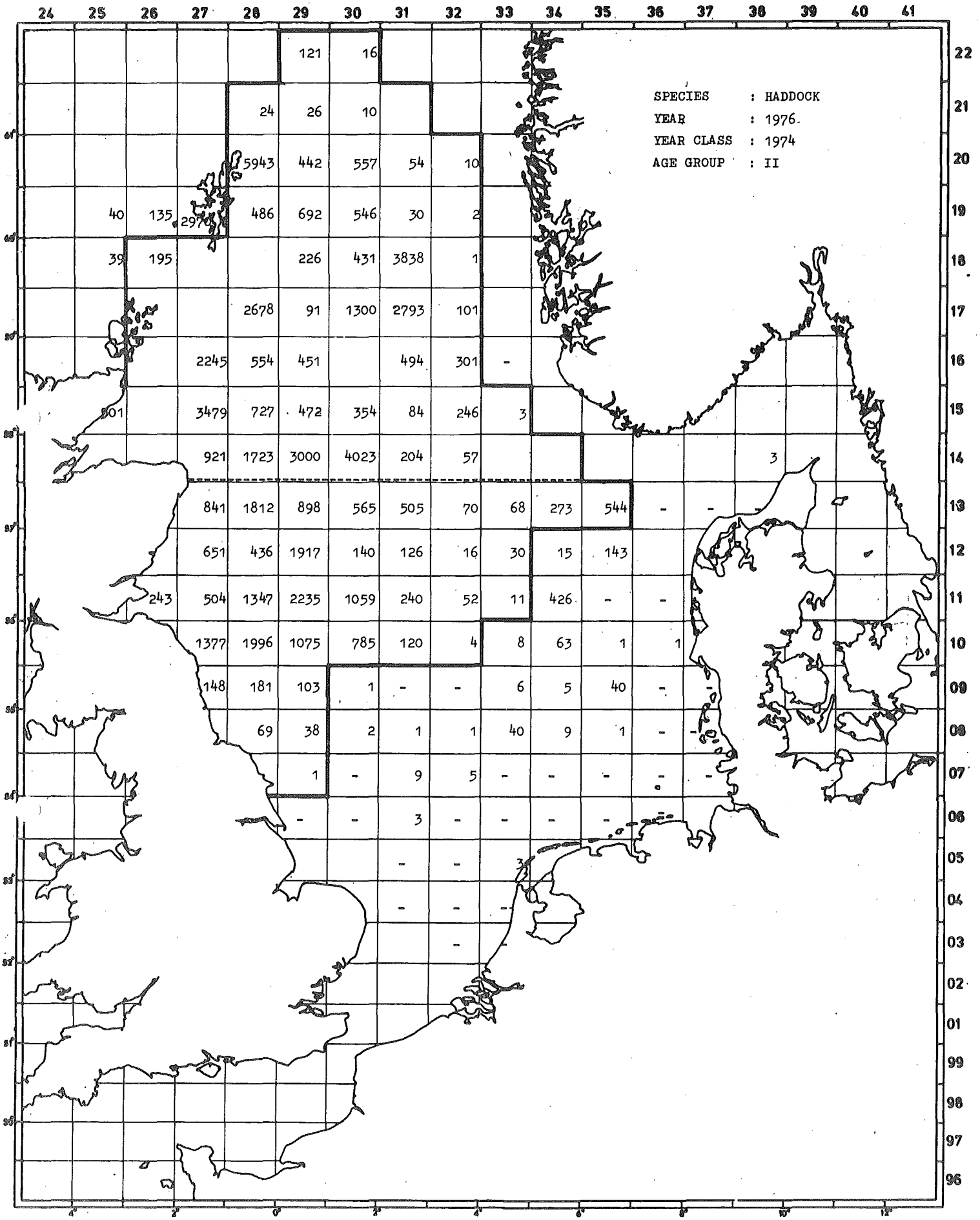


Figure 5 - Mean number per hour fishing of I-group Whiting (year class 1975).
Figures in brackets represent number of valid hauls.

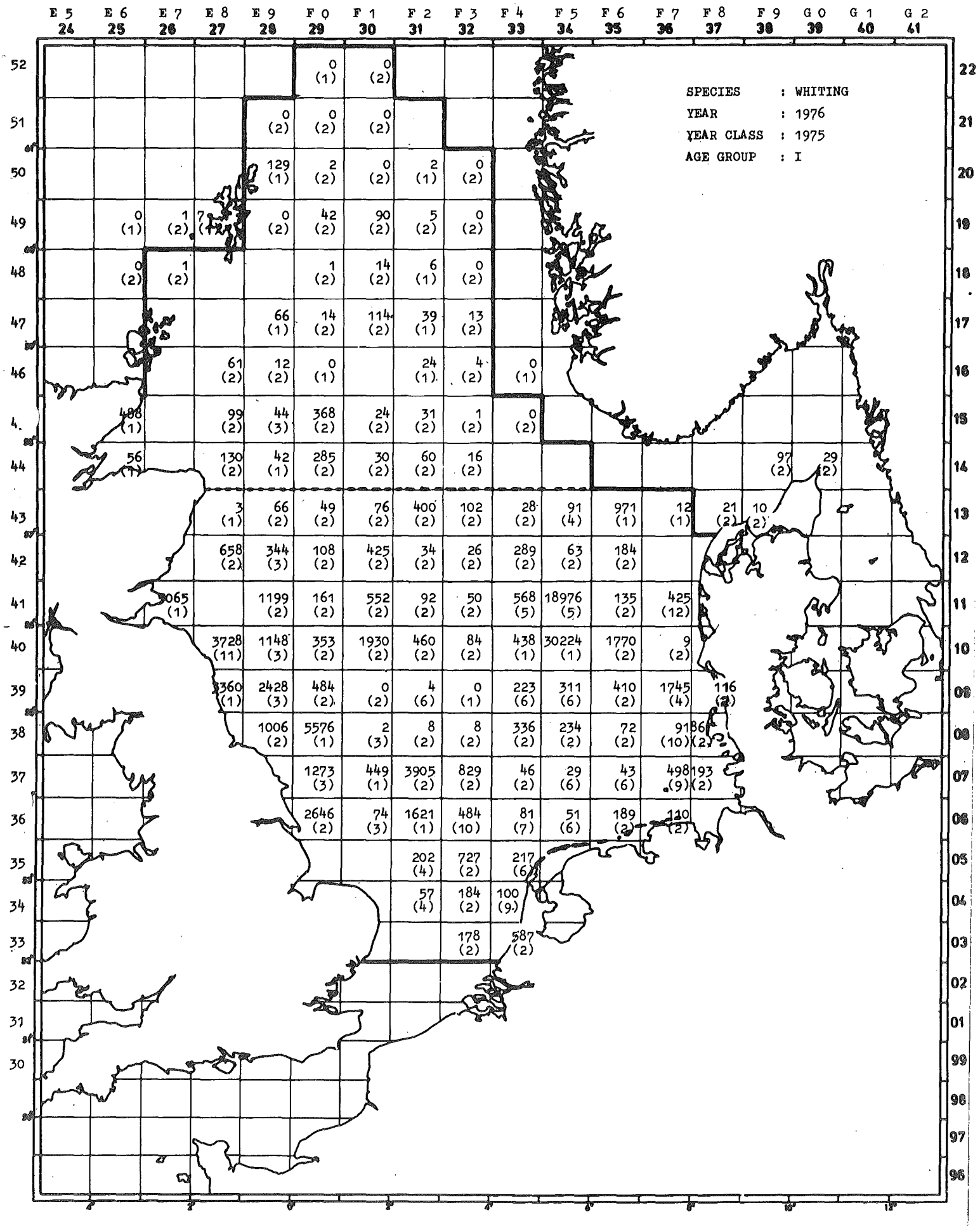


Figure 6 - Mean number per hour fishing of II-group Whiting (year class 1974).

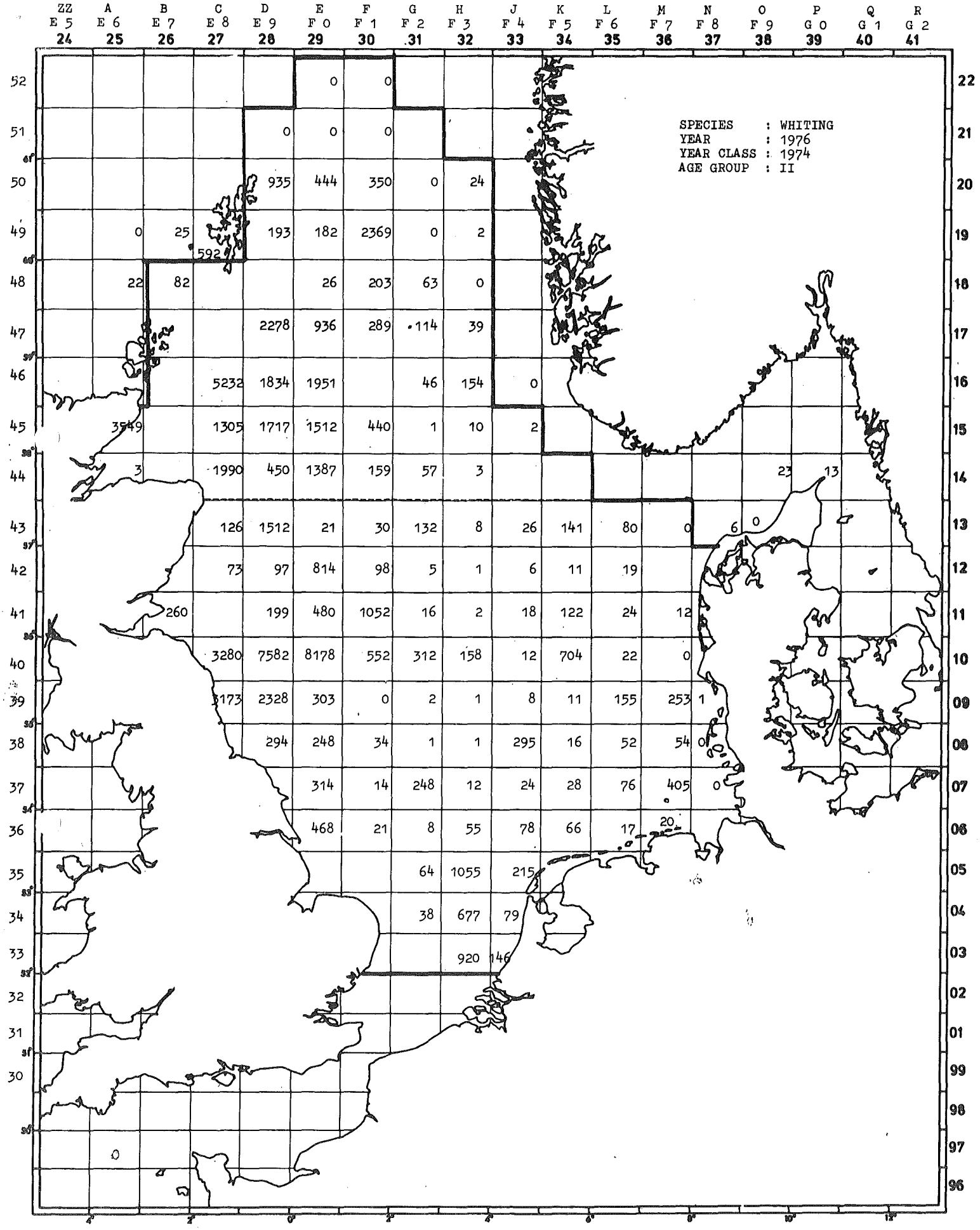
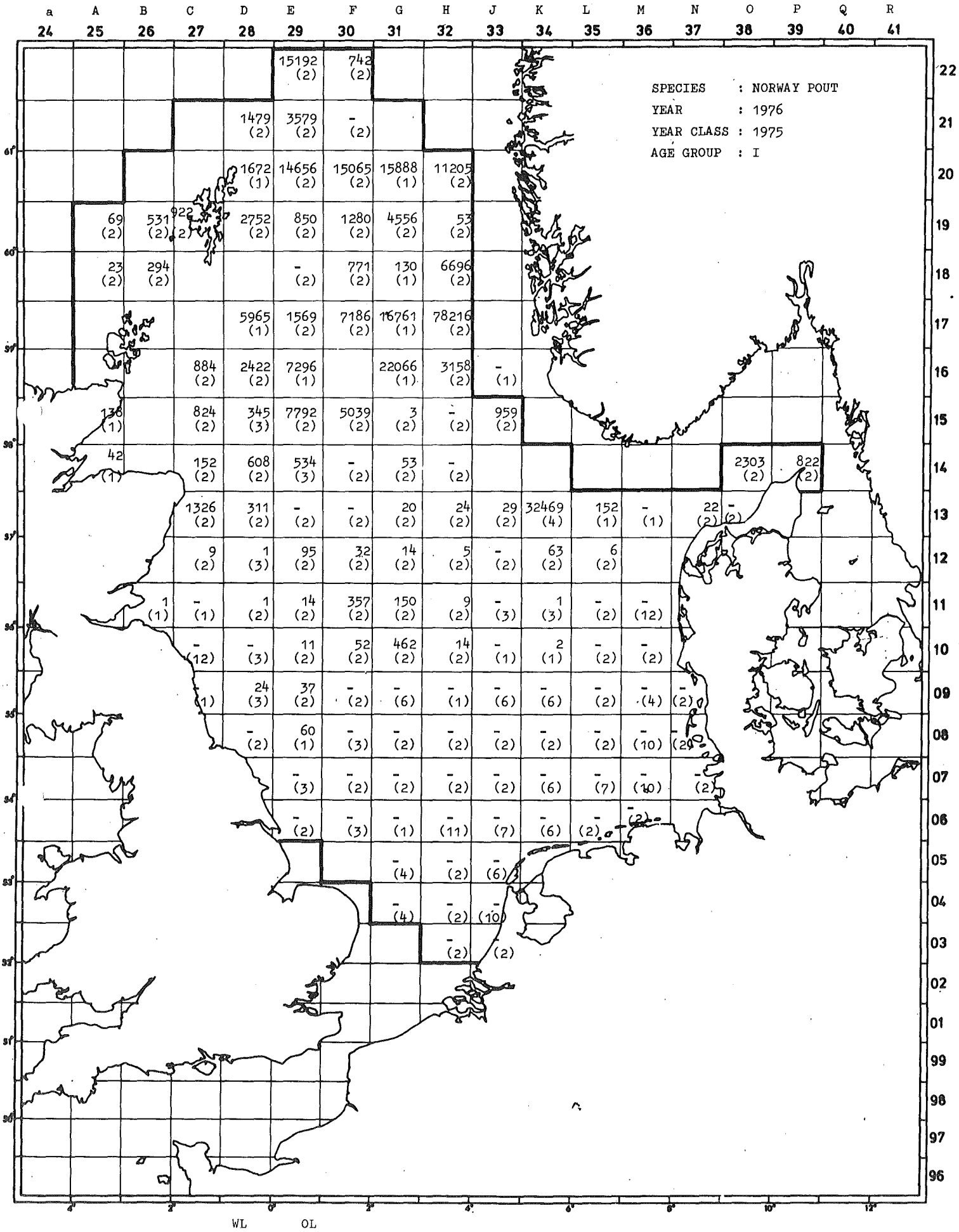


Figure 7 - Mean number per hour fishing of I-group Norway Pout (year class 1975).
Figures in brackets represent number of valid hauls.



WL OL

Figure 8 - Mean number per hour fishing of II-group Norway Pout (year class 1974).

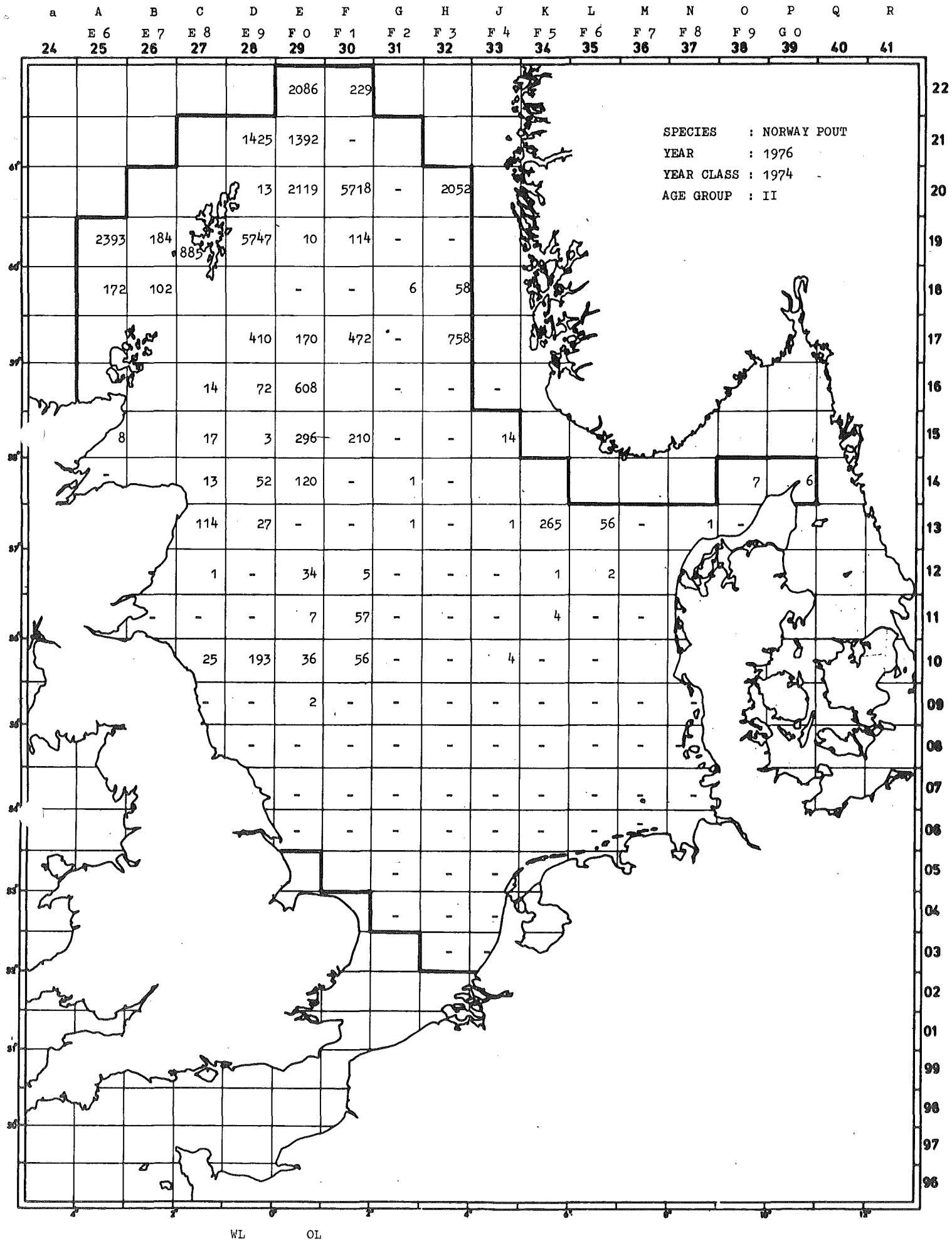


Table I a.

COUNTRY: DENMARK
SHIP: DANA

YEAR: 1976

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT *) I 1975	NORWAY POUT *) II 1974	NORWAY POUT *) older
LM 5430	9-2	17104	38F7	27	0845	54°58' 7°28'E	52	3	1	-	-	-	540	1	-	-	-	-
	9-2	17105	38F7	23	1319	54 36 7 51	10	6	3	-	-	-	83	-	-	-	-	-
	10-2	17106	37F7	25	1121	54 21 7 48	1	143	1	-	-	-	68	1	-	-	-	-
	10-2	17108	37F7	43	1440	54 17 7 25	5	48	-	-	-	-	246	34	17	-	-	-
	11-2	17109	37F7	41	0812	54 14 7 20	6	166	3	-	-	-	466	131	77	-	-	-
	11-2	17110	37F7	40	1120	54 20 7 04	21	215	5	-	2	-	1370	298	78	-	-	-
JK 5530	12-2	17113	39F5	47	0816	55 12 5 29	6	1	-	-	3	1	243	9	6	-	-	-
	12-2	17114	39F5	47	1123	55 24 5 21	31	8	7	3	9	1	386	16	11	-	-	-
	12-2	17115	39F4	47	1455	55 20 4 55	5	2	5	3	6	1	457	21	6	-	-	-
	14-2	17117	39F4	47	0759	55 25 4 43	33	3	2	2	9	7	575	5	7	-	-	-
LM 5530	8-2	17102	39F7	27	0936	55 20 7 35	78	2	1	-	-	-	1254	-	-	-	-	-
	8-2	17103	39F7	34	1412	55 01 7 03	120	32	3	-	-	-	5727	1010	258	-	-	-
DK 5630	14-2	17118	41F4	55	1430	56 08 4 42	45	9	3	5	11	3	1020	14	2	-	-	-
	15-2	17119	41F5	52	0753	56 29 5 22	114	79	9	367	1213	306	3076	112	9	-	-	-
	15-2	17120	41F5	52	1106	56 23 5 05	93	54	3	781	579	55	1893	33	6	-	-	-
	15-2	17121	41F4	63	1457	56 22 4 42	108	9	4	7	14	4	1381	12	8	-	-	-
LM 5630	5-2	17098	41F7	35	1206	56 23 7 09	135	105	9	-	3	-	2004	90	90	-	-	-
	5-2	17099	41F7		1447	56 19 7 02	117	12	20	1	1	-	1164	17	12	-	-	-
	6-2	17100	41F7	30	0847	56 06 7 42	5	8	12	-	-	-	563	2	-	-	-	-
	6-2	17101	41F7	28	1123	56 13 7 47	11	3	1	-	-	-	263	1	2	-	-	-
JK 5730	16-2	17124	43F5	210	0835	57 53 5 45	-	6	9	-	-	-	5	13	47			(99490)
	16-2	17125	43F5	106	1448	57 51 5 09	39	77	28	1094	799	93	357	1103	1483			(31566)
JK 5830	28-2	17149	46F4	250	1820	58 30 4 00	-	-	-	-	-	-	-	-	-			-
	29-2	17150	45F4	230	0900	58 19 4 15	-	2	7	6	6	1	-	4	29			(1946)
	29-2	17151	45F4	210	1328	58 11 4 38	-	-	-	-	-	-	-	-	-			-
CD 5930	24-2	17138	47E9	145	0840	59 18 0 32 W	-	36	24	747	2678	514	66	2248	4296			(6375)
GH 5930	17-2	17128	47F3	210	0814	59 01 3 31 E	-	-	-	-	2	1	-	2	35			(67230)
	17-2	17129	47F3	160	1300	59 24 3 19	-	33	-	152	200	9	25	76	123			(90741)
	17-2	17130	48F3	223	1630	59 37 3 28	-	-	8	-	2	1	-	-	-			(12497)
	27-2	17143	48F2	120	0708	59 40 2 32	-	38	19	228	3838	637	6	63	402			(137)
	27-2	17145	48F3	240	1415	59 38 3 30	-	-	-	-	-	-	-	-	-			(1010)
	28-2	17146	47E2	123	0725	59 28 2 55	-	18	12	783	2793	554	39	114	342			(16761)
CD 6030	21-2	17136	50E9	102	0830	60 44 0 42 W	90	491	54	1774	5943	801	129	935	1691			(1685)

GEAR SPECIFICATIONS:

NOTES: * Split by age groups not available.

Table I b.

COUNTRY: ENGLAND
SHIP: CIROLANA

YEAR: 1976 | IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
EF	26/1	1	38F0	64	1125	54°37' - 0°31'E				NOT VALID								
5430	9/2	41	38F0	77	0740	54°53' - 0°44'E				NOT VALID								
	9/2	42	38F0	73	1200	54°44' - 0°30'E	42	31	4	19	38	18	5576	248	-	60	-	-
CD	26/1	3	39E9	74	2139	55°15' - 0°15'W	-	4	-	1	80	30	685	137	22	6	-	1
5530	8/2	39	39E9	76	2007	55°25' - 0°30'W	1	8	2	2	280	84	2438	133	22	66	-	2
GH	1/2	10	38F2	25	2105	54°49' - 2°08'E	-	1	1	-	-	-	9	2	-	-	-	-
5430	2/2	11	38F2	23	0001	54°42' - 2°29'E	-	1	-	-	2	-	7	-	-	-	-	-
	2/2	12	38F3	42	0745	54°38' - 3°22'E	1	1	8	-	2	3	12	1	-	-	-	-
	2/2	13	38F3	43	1048	54°49' - 3°26'E	-	1	1	-	-	-	3	-	-	-	-	-
GH	2/2	14	39F3	30	1409	55°09' - 3°21'E	-	1	1	-	-	2	-	1	1	-	-	-
5530	3/2	18	39F2	31	0706	55°09' - 2°29'E	2	-	-	-	-	-	-	1	-	-	-	-
	3/2	19	39F2	40	1030	55°24' - 2°21'E	2	-	2	-	1	1	9	-	-	-	-	-
GH	3/2	20	42F2	73	1835	56°39' - 2°24'E	2	2	-	64	150	53	44	6	5	24	-	-
5630	3/2	21	42F2	72	2122	56°53' - 2°40'E	-	4	-	27	102	32	23	4	0	4	-	-
	4/2	26	42F3	65	1734	56°53' - 3°21'E	1	2	-	1	3	8	37	-	-	5	-	-
	4/2	27	42F3	66	2028	56°42' - 3°10'E	1	10	-	28	29	9	16	2	-	5	-	-
GH	4/2	22	43F2	83	0110	57°11' - 2°23'E	8	15	4	42	258	24	39	2	7	38	1	-
5730	4/2	23	43F2	69	0728	57°25' - 2°45'E	9	19	2	193	751	60	762	262	227	2	1	-
	4/2	24	43F3	64	1045	57°23' - 3°25'E	2	7	-	283	60	5	88	7	4	41	-	-
	4/2	25	43F3	61	1350	57°10' - 3°36'E	2	1	-	531	79	7	115	8	2	7	-	-
LMN	5/2	29	42F6	36	0727	56°39' - 6°30'E	42	64	24	66	254	63	325	33	35	1	1	-
5630	5/2	30	42F6	49	1145	56°53' - 6°19'E	21	21	12	35	32	68	43	4	6	11	2	-
LM	5/2	31	43F6	70	1628	57°15' - 6°21'E				NOT VALID								
5730	5/2	32	43F6	106	2000	57°24' - 6°31'E				NOT VALID								
LMN	7/2	33	39F6	50	1023	55°21' - 6°02'E	25	23	5	148	65	41	608	176	78	-	-	-
5530	7/2	34	39F6	47	1332	55°04' - 6°18'E	3	19	5	15	15	8	211	133	76	-	-	-
LMN	7/2	35	38F6	43	1608	54°57' - 6°16'E	1	1	2	1	2	-	16	13	6	-	-	-
5430	7/2	36	38F6	39	1945	54°41' - 6°40'E	-	1	2	-	-	-	128	90	38	-	-	-
EF	8/2	37	39F0	80	1320	55°14' - 0°24'E	5	38	3	78	44	41	720	228	44	16	0	2
5530	8/2	38	39F0	83	1615	55°22' - 0°22'E	4	50	4	31	162	154	247	378	317	58	3	12
GH	10/2	43	35F2	32	0709	53°24' - 2°50'E	-	-	1	-	-	-	10	9	7	-	-	-
5330	10/2	44	35F2	33	0953	53°14' - 2°39'E	-	-	3	-	-	-	16	33	56	-	-	-
GHJ	10/2	45	34F2	41	1310	52°50' - 2°38'E	-	1	4	-	-	-	7	18	146	-	-	-
5230	10/2	46	34F2	53	1522	52°43' - 2°27'E	-	-	-	-	-	-	7	7	25	-	-	-

GEAR SPECIFICATIONS: DUTCH HERRING TRAWL. HEADLINE = 19 METRES. BRIDLES 28 METRES. LEGS 16 METRES.
2 HEADLINE KITES. COD-END WITH 15 MM. MESH LINER.

NOTES:

Table I c.

COUNTRY: FRANCE
SHIP: THALASSA

YEAR: 1976

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT GMT + 1	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
BHJ	11/2	1	33F4	23	1330	52°23' 4°10'E	2	85	6	-	-	-	707	148	16	-	-	-
5230	"	2	34F4	18	1750	52 40 4 26	-	-	-	-	-	-	14	-	-	-	-	-
	12/2	3	34F4	24	0718	52 50 4 26	4	25	1	-	-	-	108	15	-	-	-	-
	"	4	34F4	23	0947	52 44 4 16	5	21	1	-	-	-	48	4	-	-	-	-
	"	5	34F4	31	1333	52 56 4 07	9	66	5	-	-	-	255	112	21	-	-	-
	2/3	55	33F3	29	1705	52 22 3 40	-	10	6	-	-	-	145	881	106	-	-	-
	2/3	56	33F3	32	1827	52 22 3 33	-	28	12	-	-	-	210	958	151	-	-	-
EF	21/2	24	36F0	41	1345	53 50 0 55	7	4	-	-	-	-	246	125	40	-	-	-
5330	"	25	36F0	46	1610	53 56 0 31	-	4	-	-	-	-	5047	810	265	-	-	-
BH	15/2	14	36F3	42	0753	53 47 3 23	1	-	4	-	-	-	1184	69	4	-	-	-
5330	"	15	36F3	41	1026	53 38 3 25	-	-	9	-	-	-	693	26	2	-	-	-
JK	12/2	6	35F4	33	1600	53 04 4 12	10	157	16	-	-	-	70	149	62	-	-	-
5330	2/3	52	36F4	35	0702	53 39 4 30	-	-	18	-	-	-	85	90	37	-	-	-
	2/3	53	36F4	29	0818	53 33 4 26	-	2	8	-	-	-	62	225	147	-	-	-
	2/3	54	35F4	30	1025	53 19 4 20	-	12	2	-	-	-	604	354	54	-	-	-
EF	21/2	23	37F0	57	0900	54 06 0 22	1	9	5	-	-	-	484	790	45	-	-	-
D	22/2	28	37F0	68	1620	54 24 0 38	1	7	11	-	2	-	2830	117	-	-	-	-
LMN	13/2	7	37F6	36	0743	54 06 6 37	-	1	3	-	-	-	-	-	-	-	-	-
5430	"	8	37F7	36	1230	54 07 7 10	3	101	-	-	-	-	287	1971	154	-	-	-
	"	9	37F6	37	1645	54 14 6 42	-	24	16	-	-	-	55	63	6	-	-	-
	14/2	10	38F7	21	0727	54 56 7 22	-	-	-	-	-	-	5	-	-	-	-	-
	"	11	38F7	22	1040	54 46 7 45	65	-	-	-	-	-	-	-	-	-	-	-
	"	12	37F7	29	1530	54 26 7 30	-	4	1	-	-	-	5	1	-	-	-	-
CD	22/2	26	38E9	62	0754	54 47 0 53'W	-	2	4	-	16	-	1217	349	3	-	-	-
5430	"	27	38E9	68	1048	54 49 0 20	4	15	7	-	122	1	796	238	28	-	-	-
EF	19/2	16	40F1	76	1044	55 40 1 39'E	4	68	-	280	372	11	2761	288	21	-	-	-
5530	"	17	40F1	79	1410	55 41 1 17	16	115	-	300	1198	27	1099	816	60	103	111	144
	"	18	40F0	77	1640	55 44 0 50	7	67	-	176	1084	22	453	1713	50	22	37	-
	24/2	35	40F0	83	1709	55 58 0 03	-	1	1	10	1066	42	253	14643	152	-	34	48
CD	20/2	19	40E8	78	0810	55 58 1 29'W	3	52	2	105	238	27	859	245	12	-	-	-
5530	"	20	40E8	82	1042	55 50 1 43	-	62	7	255	470	20	2388	796	51	-	-	-
	"	22	40E8	87	1718	55 30 1 11	-	20	3	138	1249	-	1248	14217	1872	-	-	-
	23/2	30	40E9	72	1215	55 50 0 30	-	25	12	14	2229	183	528	20495	3491	-	484	1340
	"	31	40E9	67	1647	55 36 0 26	-	69	25	17	2032	173	3	365	128	-	-	-
BCD	23/2	29	41E9	78	0718	56 03 0 22	-	10	18	-	885	168	46	235	52	-	-	-
5630	24/2	32	42E9	82	0705	56 34 0 18	-	3	8	-	397	22	276	58	3	4	-	-
	"	33	42E9	75	0945	56 42 0 31	-	-	9	15	563	14	726	103	3	-	-	-
	"	34	41E9	75	1215	56 28 0 36	-	4	12	133	1809	48	2352	163	-	2	-	-
CD	26/2	36	45E9	129	0732	58 06 0 14	-	9	-	4	405	136	119	1067	22	103	1	-
5830	"	37	45E9	126	1040	58 13 0 26	-	2	7	6	836	192	13	1624	28	603	6	-
	"	38	45E8	105	1540	58 24 1 14	-	2	4	326	4738	169	174	1783	27	1024	30	10
	"	39	45E8	110	1738	58 26 1 26	-	2	2	234	2220	84	24	827		624	3	7
	29/2	48	46E8	111	0709	58 41 1 34	-	2	5	108	2447	189	72	7712	86	1484	28	20
	"	49	46E8	106	1008	58 43 1 09	-	5	3	66	2042	220	50	2751	33	284	-	-
	"	50	46E9	125	1334	58 38 0 54	-	-	5	59	693	170	18	3068	54	2228	-	-
	"	51	46E9	127	1652	58 32 0 36	-	4	8	7	415	90	5	599	44	2616	144	96
EF	27/2	40	49F0	126	0710	60 02 0 22'E	-	34	43	2966	586	293	82	330	176	733	7	-
6030	"	41	49F0	117	1045	60 22 0 35	-	18	36	1575	797	568	1	34	64	966	12	-
	"	42	50F0	141	1358	60 39 0 49	-	-	9	934	420	346	-	255	748	7242	1031	91
	"	43	50F0	147	1702	60 45 0 23	-	2	93	474	464	254	4	634	1747	22070	3206	73
	28/2	44	50F1	149	0710	60 46 1 08	-	1	24	803	587	290	-	644	2282	13260	9894	1326
	"	45	50F1	130	1015	60 34 1 26	-	2	39	851	527	970	-	35	87	16870	1543	-
	"	46	49F1	138	1413	60 18 1 19	-	1	2	no data			158	3429	4670	2560	227	13
	"	47	49F1	117	1645	60 18 1 36	-	4	38	1191	546	284	23	1309	1308	-	-	-

GEAR SPECIFICATIONS:

NOTES:

Table I d.

COUNTRY: FED. REP. OF GERMANY
SHIP: ANTON DOHRN

YEAR: 1976

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT GMT	POSITION	COD *) I 1975	COD *) II 1974	COD *) older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
JK	12-1	22	34F4	28	1020	52°39' 4°03'E				-	-	-	65	234	123	-	-	-
5230	12-1	23	34F4	35	1155	52 59 4 12				-	-	-			(358)	-	-	-
	12-1	24	34F4	30	1330	52 54 4 12				-	-	-	26	126	86	-	-	-
	12-1	25	34F4	30	1505	52 55 4 04				-	-	-	12	74	42	-	-	-
EF	13-1	26	36F1	30	0710	53 41 1 32				-	-	-			(24)	-	-	-
5330	13-1	27	36F1	32	0840	53 46 1 29				1	1	-	15	31	54	-	-	-
	13-1	28	36F1	40	1125	53 55 1 29				-	-	-	132	11	144	-	-	-
GH	11-1	15	36F3	42	0705	53 47 3 03				-	-	-	81	120	9	-	-	-
5330	11-1	16	36F3	43	0840	53 47 3 18				-	-	-	426	77	4	-	-	-
	11-1	17	36F3	38	1025	53 43 3 34				-	-	-			(177)	-	-	-
	11-1	18	36F3	39	1205	53 46 3 47				-	-	-	64	107	19	-	-	-
JK	10-1	14	36F5	34	1515	53 54 5 31				-	-	-	46	112	26	-	-	-
5330	11-1	19	36F5	38	1635	53 44 5 01				-	-	-	219	279	19	-	-	-
	12-1	20	35F4	32	0705	53 03 4 12				-	-	-	126	132	27	-	-	-
	12-1	21	35F4	28	0850	53 04 4 04				-	-	-	100	263	49	-	-	-
EF	13-1	29	37F1	42	1440	54 11 1 31				-	-	-	449	14	3	-	-	-
5430	13-1	30	37F1	40	1600	54 15 1 21				-	-	1			(476)	-	-	-
	13-1	31	37F0	50	1830	54 26 0 58				-	-	-	506	35	2	-	-	-
	14-1	32	38F1	24	0635	54 38 1 47				-	-	1	-	-	-	-	-	-
	14-1	33	38F1	30	0800	54 43 1 43				-	4	6	7	103	46	-	-	-
	14-1	34	38F1	26	0940	54 51 1 51				-	2	2	-	-	-	-	-	-
JK	10-1	12	37F5	34	1100	54 04 5 56				-	-	-	52	91	34	-	-	-
5430	10-1	13	37F5	38	1315	54 02 5 39				-	-	-	77	69	20	-	-	-
LMN	9-1	5	38F7	19	0715	54 47 7 50				-	-	-	19	3	-	-	-	-
5430	9-1	6	38F7	28	1020	54 34 7 25				-	-	-	1112	302	16	-	-	-
	9-1	7	37F7	26	1225	54 21 7 27				-	-	-	128	180	27	-	-	-
	9-1	8	37F7	39	1435	54 07 7 15				-	-	-	87	84	19	-	-	-
	9-1	9	37F6	35	1720	54 05 6 48				-	-	-	127	263	37	-	-	-
	10-1	10	37F6	34	0710	54 05 6 30				-	-	-	53	122	27	-	-	-
	10-1	11	37F6	32	0900	54 05 6 13				-	-	-			(148)	-	-	-
CD	15-1	37	40E9	80	0710	55 35 0 46 W				26	1728	218	617	1886	377			(358)
5530	15-1	38	40E8	80	1005	55 37 1 02				25	1976	291	589	265	113			(780)
	15-1	39	40E8	80	1205	55 45 1 06				20	1785	238	1248	844	86			(153)
	15-1	40	40E8	88	1435	55 52 1 17				41	1849	218	143	3636	437			(204)
	15-1	41	40E8	89	1555	55 51 1 30				22	2322	167			(9747)	-	-	-
GH	14-1	35	39F2	32	1210	55 04 2 08 E				-	-	1	4	1	-	-	-	-
5530	14-1	36	39F2	34	1355	55 09 2 24				-	-	3	10	6	2	-	-	-
BCD	15-1	42	41E8	56	1815	56 02 1 43 W				-	504	152			(3560)	-	-	-
5630	16-1	43	42E9	79	0550	56 50 0 33				5	349	13	29	131	1	-	-	-
CD	16-1	44	43E9	90	0845	57 10 0 20				10	2447	357	25	449	4			(266)
5730	16-1	45	43E9	74	1145	57 12 0 53				24	1176	60	106	2574	128			(432)
	16-1	46	44E9	108	1515	57 35 0 33				734	1243	67	42	450	3			(837)
	17-1	49	44E9	100	0745	57 55 0 48				462	2203	358			(4160)			(528)
	17-1	50	44E8	80	1030	57 47 1 14				343	1219	527	212	2949	139			(270)
	17-1	51	44E8	92	1200	57 41 1 11				275	622	59	49	1032	35			(72)
	17-1	52	43E8	96	1425	57 26 1 08				404	834	163			(384)			(1992)
	17-1	53	43E8	90	1545	57 19 1 16				100	848	232	3	126	7			
EF	16-1	47	44F0	122	1830	57 48 0 04 E				1251	616	125			(3555)			(792)
5730																		
CD	17-1	48	45E9	108	0520	58 05 0 37 W				59	940	126	-	2460	96			(333)
5830																		
AB	25-1	66	48E6	100	1530	59 54 3 14				-	10	14	-	4	4			
5930	25-1	68	48E6	140	2025	59 44 3 39				-	68	28	-	40	25			(322)
	26-1	69	48E7	82	0530	59 44 2 49				4	157	65	1	153	58			(73)
	26-1	70	48E7	82	0750	59 54 2 50				-	233	129	-	10	16			(731)
AB	25-1	64	49E6	140	1020	60 17 3 39				3	40	2	-	-	-			
6030	25-1	65	49E6	160	1300	60 05 3 22						(112)			(48)			
	26-1	71	49E7	86	1005	60 06 2 50				-	37	8	-	6	8			
	26-1	72	49E7	104	1255	60 16 2 26				-	233	50	1	44	32			(816)
CD	26-1	73	49E8	80	1535	60 12 1 55				115	4579	920	13	1058	3339			(510)
6030	26-1	74	49E8	108	1740	60 05 1 39				912	1360	42	-	125	391			
	27-1	75	49E9	120	0505	60 02 0 45				191	515	176	-	117	378			(3933)
	27-1	76	49E9	132	0715	60 03 0 28				1060	457	175	-	269	976			

GEAR SPECIFICATIONS: 180 Herring bottom trawl with inserted cod-end.

NOTES: Figures in brackets: counted only.
*) No split in age groups available.

Table I e.

COUNTRY: THE NETHERLANDS.
SHIP: TRIDENS.

YEAR: 1976.

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT MET	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
GH	12/2	22	34F3	27	1010	52°57'-3°40'E	2	35	11	-	-	-	224	784	264	-	-	-
5230	16/2	25	"	23	2050	52 49 -3 56	2	16	2	-	-	-	144	570	132	-	-	-
JK	16/2	23	34F4	14	1447	52 34 -4 27	4	2	-	-	-	-	310	42	14	-	-	-
5230	16/2	24	"	23	1650	52 47 -4 19	6	111	3	-	4	-	63	102	45	-	-	-
	26/2	54*	33F4	15	1233	52 18 -4 21	2	43	1	-	-	-	467	144	13	-	-	-
GH	25/2	49	35F3	22	0840	53 13 -3 30	-	4	6	-	-	-	525	408	43	-	-	-
5330	25/2	50	"	22	1100	53 21 -3 48	2	4	8	-	-	-	928	1701	479	-	-	-
JK	25/2	51	35F4	25	1325	53 20 -4 14	4	39	7	-	12	-	342	368	170	-	-	-
5330	25/2	52	36F4	23	1525	53 32 -4 30	-	6	8	-	2	-	147	216	37	-	-	-
	25/2	53	35F4	27	1805	53 17 -4 21	2	1935	385	-	4	-	62	26	10	-	-	-
LM	17/2	26	36F6	20	0835	53 47 -6 30	23	31	-	-	-	-	214	15	1	-	-	-
5330	17/2	27	36F7	22	1130	53 52 -7 20	4	80	-	-	-	-	141	24	1	-	-	-
	18/2	30*	36F6	20	0815	53 47 -6 28	2	6	-	-	-	-	84	19	1	-	-	-
	18/2	31*	36F7	22	1105	53 52 -7 19	16	180	-	-	-	-	79	17	-	-	-	-
LMN	17/2	28	37F7	32	1400	54 12 -7 16	21	63	-	-	-	-	2069	1219	72	-	-	-
5430	17/2	29	37F6	32	1638	54 12 -6 33	-	2	6	-	-	-	19	3	2	-	-	-
	18/2	32*	37F7	34	1328	54 11 -7 17	4	6	-	-	-	-	249	126	5	-	-	-
	18/2	33*	37F6	32	1615	54 12 -6 33	-	6	4	-	-	-	6	5	1	-	-	-
	19/2	34*	37F8	10	0825	54 18 -8 10	2	-	-	-	-	-	10	-	-	-	-	-
	19/2	35*	38F8	10	1100	54 36 -8 04	18	-	-	-	-	-	26	-	-	-	-	-
	19/2	36*	38F7	20	1430	54 47 -7 28	86	14	-	-	-	-	50	46	2	-	-	-
	20/2	38	37F8	10	0825	54 19 -8 08	98	12	-	-	-	-	376	-	-	-	-	-
	20/2	39	38F8	10	1035	54 36 -8 05	28	-	-	-	-	-	146	-	-	-	-	-
	20/2	40	38F7	19	1405	54 47 -7 28	883	61	-	-	-	-	96	192	-	-	-	-
CD	10/2	13	40E8	61	1145	55 58 -1 40'W	2	32	-	69	1344	17	26000	3120	-	-	-	-
5530	10/2	14	"	72	1352	55 49 -1 11	-	44	8	-	3760	560	4032	9792	576	-	-	-
	11/2	16	"	63	0820	55 58 -1 37	-	-	-	-	332	28	2324	1521	75	-	-	-
	11/2	17	"	74	1030	55 48 -1 11	-	2	-	-	988	236	120	238	106	-	-	-
	11/2	19	"	99	1430	55 32 -1 06	-	28	4	-	205	5	2058	1405	93	-	-	-
	11/2	20	39E8	90	1610	55 28 -1 02	-	20	8	4	148	16	3360	3173	299	-	-	-
	11/2	21	39E9	86	1745	55 20 -0 58	-	84	12	3	184	41	4160	6713	139	-	-	-
JK	24/2	47	40F4	41	1430	55 45 -4 33'E	26	2	-	-	8	4	438	12	-	-	-	-
5530	24/2	48	40F5	49	1715	55 44 -5 12	202	174	6	479	63	-	30224	704	-	2	4	-
LMN	19/2	37*	39F8	13	1800	55 13 -8 05	40	4	-	-	-	-	35	1	-	-	-	-
5530	20/2	41	39F8	13	1710	55 14 -8 04	93	1	-	-	-	-	196	-	-	-	-	-
EF	4/2	1	41F1	79	1115	56 12 -1 11	-	119	17	67	1552	491	740	1767	193	493	87	-
5630	4/2	2	41F0	73	1415	56 13 -0 25	-	20	-	94	2633	113	160	260	20	27	13	-
	4/2	3	42F0	80	1715	56 37 -0 27	-	70	-	235	3349	192	-	1584	720	174	66	-
	4/2	4	42F1	86	2010	56 38 -1 10	2	14	-	16	138	24	768	156	12	32	6	16
	5/2	5*	42F1	90	0820	56 38 -1 09	-	20	2	4	141	55	82	41	25	32	4	8
	5/2	6*	41F1	83	1125	56 17 -1 13	-	39	25	10	566	464	364	336	20	221	27	56
	5/2	7*	41F0	73	1425	56 13 -0 25	-	38	-	72	1836	40	162	699	21	-	-	-
	5/2	8*	42F0	76	1720	56 38 -0 28	-	10	-	60	484	20	216	45	3	16	2	-
J.	24/2	45	41F5	50	0820	56 15 -5 28	91	39	28	102	187	7	4330	458	28	11	3	-
5630	24/2	46	41F4	49	1125	56 10 -4 33	5	21	8	10	4	-	255	59	2	-	-	-
LM5630	23/2	42	42F7	27	1000	56 44 -7 27	not valid.											
LM	23/2	43	43F7	37	1425	57 09 -7 42	8	24	-	-	-	-	12	-	-	-	-	-
5730	23/2	44	43F6	58	1855	57 06 -6 31	14	12	-	1008	544	16	971	80	5	152	56	-
EF	6/2	9*	45F0	137	0830	58 17 -0 31	not valid.											
5830	6/2	10*	45F0	140	1215	58 17 -0 37	-	50	4	-	735	480	720	2556	1224	14976	576	-
	9/2	11	45F0	137	0825	58 15 -0 30	-	20	8	-	209	111	16	469	283	608	16	-
	6/2	12	46F0	126	1120	58 45 -0 30	-	24	16	32	451	189	-	1951	1697	7296	608	-

GEAR SPECIFICATIONS: 73 feet Herringtrawlwith small meshed codend inserted.
Hauls marked with an asterix (*) were made with a high opening bottom trawl.

NOTES:

Table I f.

COUNTRY: NORWAY
SHIP: JOHAN HJORT

YEAR: 1976

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT	POSITION N.	POSITION E.	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
JK	15/2	20	36F4	37	1136	53°49'	04°23'	-	-	2	-	-	-	80	6	2	-	-	-
5330	"	21	36F4	37	1354	53 51	04 44	6	-	6	-	-	-	156	6	-	-	-	-
	"	22	36F5	34	1650	53 51	05 05	-	4	4	-	-	-	18	-	-	-	-	-
	16/2	23	36F5	28	0653	53 51	05 28	-	-	6	-	-	-	-	-	-	-	-	-
JK	15/2	18	37F4	45	0555	54 13	04 36	-	-	4	-	-	-	76	46	18	-	-	-
5430	"	19	37F4	45	0845	54 03	04 15	-	-	-	-	-	-	15	1	6	-	-	-
	16/2	24	37F5	39	0918	54 10	05 14	-	-	-	-	-	-	10	4	-	-	-	-
	"	25	37F5	36	1115	54 13	05 36	2	6	-	-	-	-	18	-	-	-	-	-
GH	14/2	14	40F2	75	0925	55 55	02 44	-	-	-	4	11	11	25	20	3	20	-	-
5530	"	15	40F2	72	1106	55 42	02 41	-	-	-	266	229	253	895	604	39	904	-	-
	"	16	40F3	52	1413	55 43	03 08	2	6	2	4	-	4	73	230	19	28	-	-
	"	17	40F3	40	1630	55 37	03 24	2	2	2	4	7	9	95	85	58	-	-	-
GH	13/2	9	41F3	64	0935	56 26	03 42	Not	valid										
5630	"	10	41F3	66	1200	56 19	03 24	-	12	-	168	303	85	24	4	-	2	-	-
	"	11	41F2	74	1512	56 11	02 54	-	-	-	136	293	71	123	13	2	120	-	-
	14/2	12	41F2	75	1730	56 06	02 04	-	-	-	44	186	10	62	18	8	180	-	-
	"	13	41F3	68	0530	56 06	03 12	-	4	-	207	101	34	76	-	-	16	-	-
JK	11/2	3	42F5	48	1516	56 55	05 40	8	-	-	2	2	4	6	-	-	-	-	-
5630	"	4	42F5	51	1715	56 49	05 46	10	6	2	49	28	67	120	22	-	126	2	-
	12/2	7	42F4	57	1240	56 50	04 34	2	-	2	25	13	-	72	2	2	-	-	-
	13/2	8	42F4	64	0638	56 34	04 06	-	2	4	110	47	9	506	10	-	-	-	-
GH	22/2	34	44F2	80	0533	57 40	02 18	-	-	-	14	390	48	50	112	2	104	2	-
5730	24/2	35	44F2	61	0527	57 40	02 53	2	6	4	18	18	-	70	2	2	2	-	-
	"	36	44F3	67	0757	57 42	03 16	-	2	-	10	2	2	4	2	-	-	-	-
	"	37	44F3	71	1030	57 53	03 28	-	-	-	76	112	4	28	4	-	-	-	-
JK	11/2	1	43F5	84	0630	57 26	05 31	-	12	4	66	273	275	-	6	2	42	-	-
5730	"	2	43F5	49	1118	57 10	05 38	-	2	2	4	20	238	-	2	-	-	-	-
	12/2	5	43F4	72	0700	57 24	04 49	4	8	2	80	132	134	53	51	4	50	2	-
	"	6	43F4	59	0920	57 12	04 34	-	-	-	2	3	1	2	-	-	8	-	-
NOP	17/2	26	43F8	135	1000	57 27	08 04	-	2	-	16	-	-	2	9	9	44	2	2
5730	"	27	43F8	59	1128	57 28	08 30	2	-	-	12	-	6	40	2	-	-	-	-
	"	28	44F9	99	1530	57 42	09 08	-	2	8	167	5	22	191	45	24	1638	13	-
	"	29	44F9	165	1742	57 53	09 21	-	-	2	2	-	2	3	1	8	2968	-	-
	18/2	30	44G0		0530	57 59	10 15	4	4	2	60	-	8	57	25	14	1200	-	-
	"	31	44G0	127	0732	57 58	10 32	-	-	-	3	-	-	-	-	6	444	12	-
	20/2	32	43F9	17	1510	57 29	09 14	-	-	-	-	-	-	8	-	-	-	-	-
	"	33	43F9	19	1706	57 26	09 01	6	-	2	-	-	-	12	-	-	-	-	-
EF	27/2	42	45F1	82	1118	58 17	01 53	-	6	-	6	283	25	21	89	-	-	-	-
5830	"	43	45F1	119	1345	58 23	01 29	-	14	16	84	424	68	26	790	18	10077	420	-
	"	44	46F1	120	1605	58 34	01 29	Not	valid.										
	28/2	45	46F1	107	0825	58 52	01 45	"	"										
GH	24/2	38	45F3	86	1230	58 04	03 30	-	6	-	37	261	48	-	8	-	-	-	-
5830	"	39	45F3	76	1445	58 12	03 13	-	-	-	58	230	46	2	12	-	-	-	-
	27/2	40	45F2	68	0534	58 15	02 44	-	-	-	13	144	17	12	-	-	2	-	-
	"	41	45F2	68	0823	58 14	02 20	-	-	-	111	23	-	50	2	2	4	-	-
	28/2	46	46F2	117	1250	58 49	02 50	-	-	-	201	494	27	24	91	15	22066	-	-
	"	47	46F3	101	1604	58 51	03 10	-	14	12	17	81	42	2	8	-	-	-	-
	"	48	46F3	145	1648	58 53	03 25	-	-	2	345	521	22	5	300	215	6315	-	-
GH	29/2	49	49F2	104	0530	60 13	02 26	-	-	40	22	54	128	-	-	-	61090	9111	-
6030	"	50	49F2	98	0735	60 18	02 40	Not	valid.										
	"	51	49F2	102	0912	60 18	02 14	2	-	-	118	6	-	10	-	-	19518	-	-
	"	52	49F3	146	1140	60 25	03 06	-	-	-	44	-	-	-	-	-	3033	-	-
	"	53	49F3	282	1350	60 27	03 21	-	-	-	4	4	-	-	4	-	1733	106	-
	"	54	50F3	171	1650	60 34	03 06	-	1	-	170	4	-	-	38	42	15440	2873	-
	2/3	55	50F3	191	1938	60 43	03 04	-	-	-	42	16	-	-	9	29	6970	1230	-
	3/3	56	50F2	120	0010	60 45	02 36	-	-	-	82	54	26	2	-	8	15888	-	-

GEAR SPECIFICATIONS:

NOTES:

Table I g.

COUNTRY: SCOTLAND
SHIP: EXPLORER

YEAR: 1976

IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 1975	NORWAY POUT II 1974	NORWAY POUT older
GH 5430	8/2	7	37F2	27	0930	54°22' 2°26'E	1	-	2	-	2	-	1287	3	-	-	-	-
		8	37F2	68	1340	54 07 2 37	-	9	1	2	15	4	6523	493	18	-	-	-
	10/2	10	37F3	38	1420	54 08 3 48	4	-	2	1	4	-	993	15	1	-	-	-
	11/2	9	37F3	40	0712	54 23 3 48	6	1	-	2	5	1	665	8	1	-	-	-
GH 5330	9/2	1	36F2	31	0715	53 48 2 26			FOUL HAUL									
		2	36F2	37	1050	53 42 2 50	-	2	9	-	3	-	1621	8	2	-	-	-
		3	36F3	33	1345	53 32 3 02	-	1	2	-	1	-	320	10	3	-	-	-
		4	36F3	37	1710	53 40 3 08			FOUL HAUL		NO FISH							
	10/2	5	36F3	40	0853	53 54 3 20	2	1	-	-	-	-	1129	88	3	-	-	-
		6	36F3	35	1120	53 56 3 38	1	2	1	1	2	-	935	49	3	-	-	-
LMN 5530	14/2	22	40F7	18	1808	55 40 7 20	25	3	2	-	1	-	7	-	-	-	-	-
		21	40F7	18	2030	55 48 7 20	10	3	7	-	-	-	10	-	-	-	-	-
	16/2	19	40F6	40	0715	55 55 6 22	27	6	7	1	1	-	1418	34	11	-	-	-
		20	40F6	40	1000	55 41 6 19	10	6	2	1	-	-	2121	10	1	-	-	-
LMN 5630	15/2	27	41F7	24	0700	56 08 7 20	51	3	-	-	-	-	372	4	-	-	-	-
		28	41F7	23	0835	56 10 7 26	18	1	1	-	-	-	395	-	-	-	-	-
		26	41F7	31	1220	56 28 7 18	1	13	11	-	-	-	182	6	8	-	-	-
		25	41F7	31	1350	56 26 7 09	5	12	7	-	-	-	90	15	23	-	-	-
		24	41F6	37	1630	56 25 6 58	24	16	8	-	-	-	227	7	6	-	-	-
		23	41F6	40	2005	56 12 6 27	5	26	7	3	-	-	42	40	23	-	-	-
JK 5530	16/2	18	39F5	44	1508	55 18 5 32	12	3	3	1	3	1	298	10	-	-	-	-
	18/2	17	39F5	40	0715	55 18 5 16	9	4	-	1	4	1	927	16	1	-	-	-
		16	39F4	46	1105	55 17 4 20	-	2	6	-	3	-	164	6	1	-	-	-
		15	39F4	46	1330	55 20 4 26	2	1	1	-	4	-	138	12	1	-	-	-
JK 5430	17/2	14	38F5	38	0812	54 49 5 33	1	3	4	-	3	-	329	17	4	-	-	-
		13	38F5	40	1032	54 40 5 04	4	2	5	-	15	-	139	15	4	-	-	-
		12	38F4	40	1235	54 46 4 54	7	5	1	4	68	3	159	388	89	-	-	-
		11	38F4	46	1605	54 41 4 20	-	2	1	2	11	1	512	201	29	-	-	-
BCD 5630	19/2	36	41E8	60	0955	56 16 1 18'W			½ HOUR HAUL - CAME FAST									
		35	41E8	60	1325	56 25 1 51			LARGE STONES - NO FISH									
		39	42E8	59	1940	56 32 1 24	-	3	1	38	1019	17	883	122	2	17	1	-
		40	42E8	64	2100	56 36 1 21	-	1	1	4	283	5	434	24	-	1	-	-
	20/2	34	41E7	62	0712	56 13 2 14	15	35	6	19	243	7	5065	260	26	1	-	-
		33	41E7	55	0945	56 20 2 14			FOUL HAUL									
		37	42E7	59	1538	56 30 2 18			BELLY OUT									
		38	42E7	73	1915	56 45 2 05			FOUL HAUL - NO FISH									
AB 5830	21/2	41	44E6	62	1500	57 54 3 24	2	2	15	3	46	-	488	3	-	42	-	-
		46	45E6	59	1930	58 17 3 09	1	-	-	1	501	9	56	3549	91	138	8	2
AB 5	22/2	56	47E8	92	0855	59 09 2 10			FOUL HAUL - NET DESTROYED									

GEAR SPECIFICATIONS:

NOTES:

Table I h.

COUNTRY: USSR
SHIP: ALIOT

YEAR: 1976 | IYHS

CATCHES IN NUMBERS PER HOUR FISHING BY AGE GROUPS

AREA	DATE	STATION	SQUARE	DEPTH M	TIME SHOT	POSITION	COD I 1975	COD II 1974	COD older	HADDOCK I 1975	HADDOCK II 1974	HADDOCK older	WHITING I 1975	WHITING II 1974	WHITING older	NORWAY POUT I 197	NORWAY POUT II 197	NORWAY POUT older
EF	9/2	1a	51F1	170	730	61°21' - 1°52'E	-	2	2	38	18	4	-	-	-	-	-	-
6130	9/2	1b	51F1	180	1135	61°27' - 1°14'E	-	-	-	12	1	-	-	-	-	-	-	-
	10/2	2a	52F1	190	1205	61°37' - 1°14'E	-	-	11	38	15	13	-	-	-	453	321	42
	10/2	2b	52F1	190	1600	61°32' - 1°16'E	-	1	2	7	16	29	-	-	-	1031	136	-
	10/2	3a	52F0	195	2030	61°33' - 0°55'E	-	-	-	139	121	13	-	-	-	26964	3812	272
	11/2	4a	51F0	200	800	61°27' - 0°43'E	-	-	-	12	42	-	-	-	-	2162	1005	91
	11/2	4b	51F0	180	1800	61°25' - 0°46'E	-	4	-	-	10	14	-	-	-	4995	1779	68
CD	12/2	5a	51E9	180	545	61°20' - 0°32'E	-	-	-	1	37	28	-	-	-	2347	1876	171
6130	12/2	5b	51E9	190	840	61°29' - 0°03'W	-	-	-	-	11	4	-	-	-	611	974	163
EF	13/2	6a	48F0	127	820	59°54' - 0°40'E	-	2	-	63	423	308	2	51	28	-	-	-
5930	13/2	6b	48F0	135	1040	59°45' - 0°32'E	-	-	-	3	29	11	-	-	-	-	-	-
	13/2	7a	48F1	125	1435	59°44' - 1°07'E	-	-	-	46	482	227	24	296	154	-	-	-
	13/2	7b	48F1	115	1730	59°38' - 1°25'E	-	3	6	47	379	476	4	110	70	1524	-	-
	14/2	8a	47F1	122	800	59°21' - 1°37'E	1	10	6	812	1970	674	198	454	129	5533	171	-
	14/2	8b	47F1	110	1445	59°17' - 1°08'E	-	3	15	8	630	438	30	124	130	8839	773	-
	15/2	9a	47F0	135	800	59°14' - 0°32'E	4	5	6	-	48	34	8	1023	588	2422	156	-
	15/2	9b	47F0	140	1100	59°26' - 0°20'E	3	22	6	11	134	118	19	849	621	715	184	17
EF	16/2	10a	44F1	95	745	57°48' - 1°29'E	10	7	6	-	5085	815	32	152	26	-	-	-
	16/2	10b	44F1	93	1035	57°33' - 1°15'E	19	13	5	-	2960	679	27	166	36	-	-	-
	16/2	11a	44F0	90	1425	57°41' - 0°48'E	3	6	5	-	3195	1146	505	2216	115	-	-	-
	16/2	11b	44F0	85	1730	57°41' - 0°17'E	12	13	15	533	5190	1904	64	558	82	434	97	11
	17/2	12a	43F0	82	800	57°11' - 0°24'E	-	2	-	13	180	12	45	17	1	-	-	-
	17/2	12b	43F0	88	1100	57°18' - 0°50'E	1	-	1	103	1615	178	53	25	2	-	-	-
	17/2	13a	43F1	95	1500	57°09' - 1°15'E	3	4	-	8	169	16	146	38	5	-	-	-
	17/2	13b	43F1	95	1750	57°19' - 1°25'E	-	5	8	16	960	62	6	21	-	-	-	-
JK	18/2	14b	41F4	65	835	56°26' - 4°15'E	5	4	5	-	10	2	134	1	-	-	-	-
5630	18/2	14a	41F4	65	1205	56°08' - 4°46'E	22	1	3	27	14	3	52	4	-	-	-	-
	18/2	15a	41F5	57	1510	56°14' - 5°09'E	-	-	-	-	1	3	16	-	-	-	-	-
	18/2	15b	41F5	57	1745	56°17' - 5°26'E	-	5	4	2	148	55	173	7	3	105	18	-
LM	20/2	16a	41F7	35	720	56°28' - 7°11'E	5	10	2	-	-	-	54	3	4	-	-	-
5630	20/2	16b	41F7	34	945	56°19' - 7°31'E	-	34	3	-	-	-	-	3	43	-	-	-
	20/2	16d	41F7	34	1210	56°12' - 7°06'E	2	8	10	-	-	-	5	3	2	-	-	-
	20/2	16c	41F7	36	1450	56°06' - 7°24'E	6	4	7	-	-	-	5	1	-	-	-	-
LM	21/2	17a	39F7	30	720	55°09' - 7°15'E	-	1	6	-	-	-	-	-	2	-	-	-
5530	21/2	17b	39F7	30	950	55°03' - 7°09'E	-	3	2	-	-	-	-	-	-	-	-	-
JK	22/2	19a	39F5	43	745	55°24' - 5°08'E	-	-	7	-	3	-	5	9	5	-	-	-
5530	22/2	19b	39F5	42	1100	55°04' - 5°21'E	-	1	4	1	9	2	4	3	-	-	-	-
	22/2	20a	39F4	42	1405	55°06' - 4°51'E	-	1	7	-	4	1	-	-	2	-	-	-
	22/2	20b	39F4	50	1700	55°11' - 4°30'E	-	1	3	-	7	1	1	4	1	-	-	-
GH	23/2	21a	39F2	23	710	55°05' - 2°41'E	-	-	3	-	-	-	1	1	1	-	-	-
5530	23/2	21b	39F2	35	1005	55°11' - 2°22'E	-	-	-	-	1	1	-	-	-	-	-	-
EF	23/2	22a	39F1	35	1240	55°13' - 1°55'E	-	-	2	-	1	-	-	-	-	-	-	-
	23/2	22b	39F1	31	1450	55°09' - 1°25'E	-	-	-	-	-	-	-	-	-	-	-	-
JK	24/2	23a	37F5	40	730	54°16' - 5°22'E	-	5	4	-	-	-	15	1	2	-	-	-
5430	24/2	23b	37F5	34	910	54°04' - 5°49'E	-	-	-	-	-	-	-	-	-	-	-	-
JK	24/2	24a	36F5	38	1430	53°57' - 5°22'E	-	3	-	-	-	-	4	1	-	-	-	-
5330	24/2	24b	36F5	40	1720	53°51' - 5°08'E	-	10	2	-	-	2	19	2	1	-	-	-
	25/2	25a	36F4	40	720	53°50' - 4°38'E	-	-	22	-	-	-	35	2	2	-	-	-
	25/2	25b	36F4	40	1020	53°41' - 4°14'E	-	2	5	-	-	-	4	3	5	-	-	-
GH	25/2	26a	36F3	39	1450	53°47' - 3°42'E	-	-	2	-	-	-	6	-	-	-	-	-
5330	26/2	28a	35F2	35	1420	53°13' - 2°37'E	-	-	3	-	-	-	166	150	199	-	-	-
	26/2	28b	35F2	36	1830	53°27' - 2°53'E	-	-	3	-	-	-	616	64	71	-	-	-
GH	26/2	27a	34F2	35	750	52°48' - 2°39'E	-	-	7	-	-	-	127	80	65	-	-	-
5230	26/2	27b	34F2	32	1055	52°56' - 2°50'E	-	-	6	-	-	-	86	48	43	-	-	-
LM	21/2	18a	38F7	30	1130	54°46' - 7°03'E	-	-	-	-	-	-	-	-	-	-	-	-
5430	21/2	18b	38F7	32	1350	54°36' - 7°08'E	-	-	-	-	-	-	-	-	-	-	-	-
GH 5330	25/2	26b	36F3	34	1745	53°33' - 3°16'E	-	-	-	-	-	-	-	-	-	-	-	-

GEAR SPECIFICATIONS:

NOTES:

Table II a.

COUNTRIES COMBINED. | YEAR: 1976. | IYHS

SUMMARY ABUNDANCE AND LENGHT DATA BY AREA; AGE GROUP: I

AREA	COD				HADDOCK				WHITING				NORWAY POUT			
	YEARCLASS 1975				1975				1975				1975			
	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range
GH 5130																
GH 5230 JK 5230	2	23.6	3.33	16-29	-				221	19.4	3.06	6-25	-			
EF 5330	3	18.9	2.15	16-22	<0.5	21.5	-	21-22	1360	15.2	1.81	11-22	-			
GH 5330	<0.5	18.3	3.08	14-22	<0.5	23.5	-	23-24	759	15.7	3.04	6-29	-			
JK 5330	2	20.9	4.40	14-29	-				116	18.0	1.08	7-26	-			
LM 5330	12	21.4	3.63	16-29	-				150	17.0	3.29	5-26	-			
CD 5430	2	16.2	2.22	13-18	-				1006	17.4	3.54	10-21	-			
EF 5430	12	16.9	2.37	12-27	5	21.0	1.05	18-22	1825	15.3	2.07	8-30	15	12.4	1.11	9-14
GH 5430	2	16.8	3.39	11-23	<0.5	21.3	2.05	19-23	1188	15.0	3.12	6-23	-			
JK 5430	2	19.7	2.78	14-24	1	21.0	2.07	18-24	161	16.4	3.04	6-23	-			
LM 5430 NO 5430	37	20.2	3.73	9-30	<0.5	24.5	-	24-25	164	17.3	4.39	6-27	-			
CD 5530	<0.5	18.2	0.75	17-20	20	21.1	2.47	16-24	2701	15.5	4.14	11-23	6	13.0	1.20	9-15
EF 5530	5	15.0	1.38	13-17	110	21.6	1.85	14-24	692	15.6	2.17	9-22	33	12.8	1.22	9-15
GH 5530	1	18.4	2.01	15-21	35	21.6	1.31	18-24	137	15.8	3.17	8-23	119	11.6	1.07	9-14
JK 5530	61	17.9	3.07	11-26	120	21.8	1.45	18-26	7799	16.3	2.33	6-24	1	12.5	-	12-13
I 530 NO 5530	34	16.9	3.08	10-27	21	22.4	1.85	18-26	810	16.2	1.16	6-27	-			
CD 5630	3	18.9	3.70	13-24	23	17.0	1.38	14-21	1817	15.2	2.02	8-22	2	12.6	0.73	11-13
EF 5630	<0.5	12.5	-	12-13	70	21.3	1.44	15-23	312	15.4	1.78	9-21	125	12.4	1.21	9-14
GH 5630	1	11.0	3.87	6-15	85	21.0	2.56	16-24	51	16.2	2.28	10-24	45	11.9	1.29	9-14
JK 5630	27	15.8	3.52	9-29	89	21.0	1.58	13-25	4974	15.9	3.19	6-26	24	11.6	1.21	8-14
LM 5630	26	15.2	3.23	6-26	18	22.3	2.43	17-27	248	13.5	2.52	6-24	2	11.2	1.07	9-12
PQ 5630																
AB 5730																
CD 5730	<0.5	20.0	-	18-22	294	19.0	1.27	12-23	60	18.7	2.27	13-23	599	13.1	0.95	10-15
EF 5730	6	25.4	2.85	16-29	166	19.1	1.60	14-23	110	20.6	3.65	13-26	134	12.5	1.16	9-14
GH 5730	3	16.7	3.00	8-22	146	19.0	1.59	11-22	145	16.9	1.75	9-21	24	12.3	1.10	8-14
JK 5730	6	22.0	1.03	20-24	166	17.1	1.84	12-22	60	20.2	2.11	10-24	16249	11.0	0.94	8-13
LM 5730	12	16.3	2.95	11-21	504	21.2	1.66	15-25	492	19.5	2.18	10-26	76	11.1	1.29	8-14
NO 5730 PQ 5730	2															
AB 5830	2	20.0	5.00	15-25	2	16.5	1.41	14-17	272	14.0	1.92	8-20	90	12.2	1.03	9-15
CD 5830	-				106	15.3	1.69	11-19	54	17.6	1.90	13-20	1119	12.4	1.14	9-15
EF 5830	-				26	15.3	1.79	12-19	131	16.5	1.66	13-21	6709	11.9	1.07	9-14
GH 5830	-				123	16.1	1.82	11-19	15	17.1	1.88	13-23	6307	10.6	0.85	8-13
JK 5830	-				2	16.1	2.32	14-19	-				480	11.2	0.91	9-13
NO 5830																
PQ 5830																
A 930	-				1	15.5	0.82	14-17	1	18.5	-	18-19	159	12.0	1.20	10-13
CD 5930	-				747	15.2	1.65	11-19	66	15.4	3.98	15-17	5965	12.0	0.97	9-14
EF 5930	-				124	14.8	1.57	11-19	36	19.7	4.33	14-24	2382	10.9	0.98	8-14
GH 5930	-				272	15.5	2.11	10-24	15	21.0	2.08	14-25	25451	10.5	0.94	8-14
AB 6030	-				2	18.2	3.05	15-22	1	18.5	-	18-19	300	11.7	0.87	8-13
CD 6030	30	20.0	2.01	16-23	971	16.6	2.54	12-22	45	19.9	2.07	16-24	1505	11.6	0.97	8-13
EF 6030	-				1248	15.8	2.34	9-21	34	22.2	2.02	16-24	7963	11.1	0.90	8-13
GH 6030	<0.5	18.5	-	18-19	71	16.0	1.62	11-20	2	17.9	1.54	13-20	7926	10.3	0.89	8-14
CD 6130	-				1	15.5	-	15-16	-				1479	11.3	0.89	14-18
EF 6130	-				48	15.4	1.40	12-19	-				4878	11.1	0.95	8-13
GH 6130																
TOTAL	7	18.2	3.72	6-30	138	17.3	3.04	9-27	685	16.0	2.94	5-30	2218	11.0	1.12	8-15

NOTES:

Table II b.

COUNTRIES COMBINED | YEAR: 1976. | IYHS

SUMMARY ABUNDANCE AND LENGHT DATA BY AREA; AGE GROUP: II

AREA	COD				HADDOCK				WHITING				NORWAY POUT			
	YEARCLASS 1974				1974				1974				1974			
	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range	N̄/Hr	L̄	S	Range
GH 5130																
GH 5230 JK 5230	31	44.8	7.41	29-64	<0.5	36.0	2.89	33-39	372	28.5	2.91	16-32	-			
EF 5330	7	40.2	8.48	23-55	<0.5	29.5	-	29-30	245	25.3	2.93	21-34	-			
GH 5330	2	43.2	5.26	33-51	1	32.5	1.10	30-34	296	27.0	1.12	14-37	-			
JK 5330	121	47.6	6.36	30-63	1	37.8	2.74	33-43	120	26.6	2.99	17-37	-			
LM 5330	75	43.0	5.53	27-59	-				19	26.5	2.16	22-32	-			
CD 5430	9	27.8	3.58	21-35	69	27.3	3.55	20-34	294	22.1	2.45	18-30	-			
EF 5430	11	31.9	6.62	22-48	10	25.9	4.01	19-34	153	23.0	4.01	17-33	-			
GH 5430	2	31.2	4.41	26-39	4	32.9	2.35	27-38	66	24.7	2.88	20-35	-			
JK 5430	4	41.7	7.71	25-55	12	33.0	2.51	28-42	91	26.2	2.74	20-36	-			
LM 5430 NO 5430	17	41.8	6.64	25-60	<0.5	35.5	1.82	33-37	147	26.7	3.47	19-38	-			
CD 5530	26	29.6	5.25	20-51	926	26.0	2.58	18-37	4091	24.8	2.60	20-32	55	20.0	0.77	17-20
EF 5530	43	27.3	4.23	20-38	491	27.6	3.00	19-38	2258	25.3	2.34	18-31	31	19.5	1.47	17-22
GH 5530	1	33.0	8.21	28-54	31	28.5	1.64	23-31	118	24.7	1.54	21-29	-			
JK 5530	45	29.8	5.16	23-51	21	31.6	3.91	22-43	184	28.5	2.61	20-33	1	13.0	0.57	12-13
5530 NO 5530	10	36.7	7.51	25-53	11	34.3	1.09	26-42	108	25.7	2.90	20-34	-			
CD 5630	10	29.9	4.56	22-40	636	24.0	2.73	16-34	157	23.5	2.65	18-32	<0.5	14.5	-	14-15
EF 5630	41	27.7	6.46	18-53	1338	26.4	2.59	21-40	611	24.6	2.26	19-35	26	14.3	1.68	12-18
GH 5630	4	30.6	6.23	23-47	108	28.8	1.68	23-33	6	24.8	3.26	18-29	-			
JK 5630	12	29.8	5.18	22-52	121	29.1	5.21	20-41	39	24.6	2.31	20-32	1	14.1	1.41	12-18
LM 5630	27	34.8	5.82	20-54	48	35.1	3.21	24-41	18	27.0	2.74	20-37	1	12.5	-	12-13
PQ 5630																
AB 5730																
CD 5730	2	33.6	4.11	29-41	1324	24.0	3.40	16-37	1020	24.5	1.87	18-34	52	18.7	1.03	17-20
EF 5730	7	36.9	7.85	28-56	2122	26.0	2.54	19-37	399	24.4	1.38	21-29	30	16.2	1.90	13-19
GH 5730	6	29.6	4.42	23-41	209	26.7	2.34	20-36	50	23.7	2.03	19-30	1	18.8	1.50	17-20
JK 5730	14	28.4	3.35	23-37	171	27.2	2.81	20-36	84	27.7	2.69	21-37	133	16.1	1.67	13-18
LM 5730	18	32.7	5.16	16-40	272	32.7	1.92	23-36	40	28.1	2.59	24-33	28	13.4	0.84	12-14
NO 5730 PQ 5730	1	34.5	2.93	30-37	1	23.9	0.55	23-24	11	26.7	1.69	23-30	4	17.0	1.58	15-18
AB 5830	1	49.5	3.54	47-52	274	24.4	2.62	15-33	1776	22.6	1.51	18-32	4	16.8	0.46	15-18
CD 5830	3	34.9	7.40	24-49	1751	23.6	2.64	18-34	2522	24.4	2.08	19-33	27	18.2	1.42	16-21
EF 5830	23	35.1	4.97	24-47	426	26.6	3.24	19-35	1301	27.0	0.38	20-34	371	15.9	1.50	14-19
GH 5830	1	34.3	2.04	30-37	281	25.1	2.71	19-31	53	27.6	1.76	23-25	-			
JK 5830	1	32.5	-	30-35	2	29.7	3.43	25-34	1	30.0	-	30-31	7	16.0	1.17	13-16
NO 5830																
PQ 5830																
5930	3	48.0	4.27	41-54	117	24.7	2.90	18-35	52	26.9	2.44	19.34	137	17.3	0.96	15-19
CD 5930	24	33.3	4.91	27-40	2678	26.7	3.99	20-37	2278	24.5	3.32	21-32	205	15.8	1.59	13-17
EF 5930	7	38.3	8.63	25-59	512	25.3	2.96	19-33	364	27.1	1.74	23-32	161	16.4	0.94	14-18
GH 5930	18	32.6	5.14	23-44	1683	25.3	3.63	19-36	54	29.0	2.10	24-34	206	17.2	1.38	13-18
AB 6030	1	54.0	-	51-57	88	24.2	1.69	19-31	13	27.8	2.35	23-34	1289	17.0	0.96	14-18
CD 6030	164	36.8	5.63	23-59	3133	25.5	3.55	19-39	573	28.0	2.97	18-35	1661	16.7	1.02	13-18
EF 6030	7	35.8	4.73	27-45	559	24.5	2.93	19-31	836	27.8	2.07	17-33	1990	16.4	1.12	14-18
GH 6030	<0.5	35.0	-	35-36	24	25.5	2.60	21-30	7	27.9	1.94	21-30	513	15.8	1.05	13-18
CD 6130	-				24	23.5	1.56	19-27	-				1425	16.5	1.07	14-18
EF 6130	1	49.8	7.91	40-58	43	21.0	1.66	19-26	-				927	16.3	1.16	14-18
GH 6130																
TOTAL	19.5	37.0	8.78	16-64	476	25.7	3.54	16-43	508	25.1	2.80	14-38	182	16.6	1.29	12-22

NOTES:

TABEL III - Indices of year class strength (N) as numbers per hour fishing for I-group and II-group cod, haddock and whiting from survey data in the North Sea (areas as shown in figure 1 - 6; methods of calculation according to ICES C.M. 1976 / F : 5; n = numbers of squares fished).

	COD				HADDOCK				WHITING			
Year class	I		II		I		II		I		II	
	n	N	n	N	n	N	n	N	n	N	n	N
1967			67	4.7			27	7300			46	1811
1968	67	5.9	82	5.2	27	425	36	88	46	18	73	56
1969	82	59	97	16	36	45	60	60	73	86	81	24
1970	97	125	106	32	60	2114	61	730	81	296	83	177
1971	106	2.6	99	7.1	61	3044	63	3577	83	710	110	877
1972	99	38	131	8.5	63	461	82	272	110	4272	131	692
1973	130	10	129	4.8	82	3685	81	703	131	703	130	222
1974	129	77	131	16	81	1663	81	1353	130	1292	130	1173
1975	131	6.4			81	312			130	1306		
Prel. estimate 1975 (cf. CM 1976 /F:5)	124	8.7			74	177			124	1233		