

ICES STATUTORY MEETING 1993

**C.M. 1993/G:1
Demersal Fish Committee**

DEMERSAL FISH COMMITTEE

1992

Report of Activities

by

Eero Aro

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BELGIUM

(R. de Clerck)

Recording of densities and growth rates of the 1991 and 1992 year classes of sole, plaice, dab, flounder and whiting was carried out. Two cruises were therefore undertaken according to the criteria of the International Demersal Young Fish Survey. The beamtrawl survey was continued in order to estimate the stock size of adult flatfish in the Southern North Sea by means of beamtrawl fishery in August. This was part of an international survey in collaboration with the Dutch and UK institutes. The market sampling was continued covering sole and plaice (North Sea-English Channel-Celtic Sea and Irish Sea), cod (North Sea) and whiting (North Sea). The number of samples is shown in following tables.

SAMPLING DATA FOR:

SOLE

BELGIUM

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	15	1550	150
	2	-	-	-	6	593	145
	3	-	-	-	7	670	144
	4	-	-	-	8	721	150
	Total:	0	0	0	36	3534	589
VII f,g	1	-	-	-	4	400	240
	2	-	-	-	5	465	150
	3	-	-	-	10	967	210
	4	-	-	-	6	550	220
	Total:	0	0	0	25	2382	820
VII a	1	-	-	-	2	160	160
	2	-	-	-	7	792	160
	3	-	-	-	1	80	80
	4	-	-	-	5	662	240
	Total:	0	0	0	15	1694	640
VII d,e	1	-	-	-	6	550	310
	2	-	-	-	1	70	70
	3	-	-	-	4	350	140
	4	-	-	-	2	150	150
	Total:	0	0	0	13	1120	670

SAMPLING DATA FOR:

PLAICE

BELGIUM

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	15	934	130
	2	-	-	-	6	358	90
	3	-	-	-	7	424	90
	4	-	-	-	8	438	90
	Total:	0	0	0	36	2154	400

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VII f,g	1	-	-	-	4	190	130
	2	-	-	-	4	275	50
	3	-	-	-	9	614	100
	4	-	-	-	6	357	133
	Total:	0	0	0	23	1436	413
VII a	1	-	-	-	2	80	80
	2	-	-	-	7	420	40
	3	-	-	-	1	40	40
	4	-	-	-	5	386	90
	Total:	0	0	0	15	926	250
VII d,e	1	-	-	-	6	290	170
	2	-	-	-	1	50	50
	3	-	-	-	4	259	100
	4	-	-	-	2	90	90
	Total:	0	0	0	13	689	410

SAMPLING DATA FOR:

COD

BELGIUM

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	1	50	50
	2	-	-	-	5	267	267
	3	-	-	-	3	160	160
	4	-	-	-	4	205	205
	Total:	0	0	0	13	682	682

SAMPLING DATA FOR:

WHITING

BELGIUM

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	7	402	285
	2	-	-	-	4	180	180
	3	-	-	-	4	195	195
	4	-	-	-	5	329	225
	Total:	0	0	0	20	1106	885

CANADA

(R. N. O'Boyle)

Canada had no fisheries and no research vessel activity on demersal fish in the ICES area in 1992. Activities in the Northwest Atlantic have been reported to NAFO.

DENMARK

(H. Gislason)

The *R/V Dana* made 10 surveys in 1992. Apart from internationally coordinated surveys (1, 2, 8, 9), surveys aimed at investigating the microdistribution of fish and its implications for predation (3), monitoring of flatfish diseases (4), cod recruitment (5), the productivity of frontal regions around Dogger Bank (6) and monitoring of *Pandalus* in the North Sea and Skagerrak (10).

R/V DANA surveys in 1992

Survey no.	Area	Period	Purpose
1	North Sea	29/1-19/2	International Bottom Trawl Survey
2	Baltic Sea	3/3-20/3	Baltic Young Fish Survey
3	North Sea	1/4-14/4	Microdistribution of fish
4	North Sea	24/4-5/5	Flatfish diseases
5	North Sea	11/5-21/5	Cod recruitment
6	North Sea	22/5-3/6	Frontal region studies
7	North Sea	6/7-9/7	Acoustic calibration
8	North Sea	10/7-24/7	International herring acoustic survey
9	North Sea	3/11-17/11	International Bottom Trawl Survey
10	North Sea	18/11-2/12	<i>Pandalus</i> survey

The sampling of the landings from the human consumption fisheries was continued in 1992 at the same level as previous years, while the number of samples collected from industrial fisheries increased from 308 in 1991 to 449 in 1992, the highest number of samples on record since 1981. The number of market samples from human consumption fisheries is given as the number of boxes of ca. 35 kg collected, while the market samples obtained from the industrial fisheries weigh ca. 10 kg each.

SAMPLING DATA FOR:

COD

DENMARK

1992

		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Eastern Baltic	1	Human consumption	6	481	481	-
	2		3	227	226	-
	3		3	205	205	-
	4		3	306	306	-
	Total:		15	1219	1218	0
	1	Industrial	1	1	1	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	1	1	-
	Total:		2	2	2	0
Western Baltic	1	Human consumption	6	520	519	-
	2		3	93	92	-
	3		2	329	329	-
	4		1	230	230	-
	Total:		12	1172	1170	0

1992

		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Belt Sea	1	Human consumption	5	666	665	-
	2		3	895	892	-
	3		3	460	460	-
	4		2	401	401	-
	Total:		13	2422	2418	0
The Sound	1	Human consumption	2	113	113	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		2	113	113	0
Kattegat	1	Human consumption	5	701	701	-
	2		5	369	368	-
	3		10	711	711	-
	4		8	593	588	-
	Total:		28	2374	2368	0
	1	Industrial	8	42	42	-
	2		3	11	10	-
	3		1	1	1	-
	4		13	58	56	-
	Total:		25	112	109	0
Skagerrak	1	Human consumption	7	770	769	-
	2		8	564	563	-
	3		7	528	527	-
	4		7	605	605	-
	Total:		29	2467	2464	0
	1	Industrial	11	61	61	-
	2		10	24	24	-
	3		22	132	130	-
	4		12	78	78	-
	Total:		55	295	293	0
Division IVa, E	1	Industrial	1	1	1	-
	2		-	-	-	-
	3		2	21	14	-
	4		1	7	7	-
	Total:		4	29	22	0
Division IVa, W	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	1	1	-
	Total:		1	1	1	0
Division IVb	1	Human consumption	10	949	948	-
	2		15	620	619	-
	3		14	537	535	-
	4		1	159	158	-
	Total:		40	2265	2260	0
	1	Industrial	1	1	1	-
	2		5	6	6	-
	3		3	3	2	-
	4		8	17	16	-
	Total:		17	27	25	0

SAMPLING DATA FOR:
DENMARK

HADDOCK

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Kattegat	1	Industrial	1	2	2	-
	2		4	8	8	-
	3		3	3	3	-
	4		7	37	37	-
	Total:		15	50	50	0
Skagerrak	1	Human consumption	5	1114	1016	-
	2		6	900	900	-
	3		9	1320	1291	-
	4		6	907	840	-
	Total:		26	4241	4047	0
	1	Industrial	-	-	-	-
	2		10	87	87	-
	3		31	1523	1388	-
	4		11	165	165	-
	Total:		52	1775	1640	0
Division IVa, E	1	Human consumption	1	59	59	-
	2		-	-	-	-
	3		2	84	84	-
	4		2	347	345	-
	Total:		5	490	488	0
	1	Industrial	14	114	112	-
	2		-	-	-	-
	3		7	151	151	-
	4		2	104	104	-
	Total:		23	369	367	0
Division IVa, W	1	Industrial	1	1	1	-
	2		-	-	-	-
	3		5	31	31	-
	4		22	209	208	-
	Total:		28	241	240	0
Division IVb	1	Human consumption	-	-	-	-
	2		-	-	-	-
	3		1	117	116	-
	4		-	-	-	-
	Total:		1	117	116	0
	1	Industrial	6	46	10	-
	2		2	17	17	-
	3		5	15	15	-
	4		7	387	385	-
	Total:		20	465	427	0

SAMPLING DATA FOR:
DENMARK

WHITING

1992

Area	Quarter	Fishery	Market samples			
			N samples	N measured	N aged	Racial invest.
Eastern Baltic	1	Industrial	2	3	3	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	1	1	-
	Total:		3	4	4	0
Western Baltic	1	Industrial	1	1	1	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	1	1	0
Kattegat	1	Industrial	9	417	416	-
	2		7	61	59	-
	3		6	295	295	-
	4		16	652	652	-
	Total:		38	1425	1422	0
Skagerrak	1	Industrial	15	561	558	-
	2		11	123	123	-
	3		33	1467	1462	-
	4		13	267	197	-
	Total:		72	2418	2340	0
Division IVa, E	1	Industrial	8	60	60	-
	2		-	-	-	-
	3		2	102	102	-
	4		2	5	5	-
	Total:		12	167	167	0
Division IVa, W	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		4	14	14	-
	4		22	264	205	-
	Total:		26	278	219	0
Division IVb	1	Industrial	8	44	44	-
	2		21	81	79	-
	3		26	267	265	-
	4		13	111	111	-
	Total:		68	503	499	0
Division IVc	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	1	1	-
	Total:		1	1	1	0

SAMPLING DATA FOR:

SAITHE

DENMARK

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Skagerrak	1	Human consumption	2	330	330	-
	2		5	237	236	-
	3		7	286	285	-
	4		3	131	130	-
	Total:		17	984	981	0
	1	Industrial	3	4	0	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		3	4	0	0
Division IVa, E	1	Human consumption	4	346	346	-
	2		1	47	47	-
	3		7	407	406	-
	4		-	-	-	-
	Total:		12	800	799	0
North Sea	1	Human consumption	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		2	77	77	-
	Total:		2	77	77	0

SAMPLING DATA FOR:

BLUE WHITING

DENMARK

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Skagerrak	1	Industrial	2	2	0	-
	2		-	-	-	-
	3		11	224	0	-
	4		4	83	0	-
	Total:		17	309	0	0
Division IVa, E	1	Industrial	1	24	0	-
	2		-	-	-	-
	3		4	57	0	-
	4		-	-	-	-
	Total:		5	81	0	0
Division IVb	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		2	6	0	-
	4		1	3	0	-
	Total:		3	9	0	0

SAMPLING DATA FOR:
DENMARK

NORWAY POUT

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Kattegat	1	Industrial	2	6	6	-
	2		2	206	206	-
	3		-	-	-	-
	4		13	612	612	-
	Total:		17	824	824	0
Skagerrak	1	Industrial	9	318	317	-
	2		14	1155	1154	-
	3		25	1728	1712	-
	4		14	1027	925	-
	Total:		62	4228	4108	0
Division IVa, E	1	Industrial	19	1941	1941	-
	2		-	-	-	-
	3		6	546	479	-
	4		6	516	515	-
	Total:		31	3003	2935	0
Division IVa, W	1	Industrial	2	196	196	-
	2		-	-	-	-
	3		5	468	468	-
	4		22	2247	2247	-
	Total:		29	2911	2911	0
Division IVb	1	Industrial	3	324	324	-
	2		-	-	-	-
	3		2	116	116	-
	4		7	441	440	-
	Total:		12	881	880	0
West of Scotland	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	100	100	-
	Total:		1	100	100	0

SAMPLING DATA FOR:
DENMARK

SANDEEL

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Kattegat	1	Industrial	-	-	-	-
	2		7	844	716	-
	3		-	-	-	-
	4		2	3	0	-
	Total:		9	847	716	0
Skagerrak	1	Industrial	2	213	112	-
	2		12	1526	315	-
	3		3	627	408	-
	4		-	-	-	-
	Total:		17	2366	835	0

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Division IVa, E	1	Industrial	2	226	224	-
	2		3	509	199	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		5	735	423	0
Division IVb	1	Industrial	15	1682	858	-
	2		62	10404	4939	-
	3		13	1759	1145	-
	4		-	-	-	-
	Total:		90	13845	6942	0
Division IVc	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		1	168	166	-
	4		-	-	-	-
	Total:		1	168	166	0

SAMPLING DATA FOR:

PLAICE

DENMARK

1992

Area	Quarter	Market samples				
		Fishery	N samples	N measured	N aged	Racial invest.
Belt Sea	1	Human consumption	1	28	28	-
	2		-	-	-	-
	3		3	93	91	-
	4		-	-	-	-
	Total:		4	121	119	0
Kattegat	1	Human consumption	8	1040	985	-
	2		6	960	909	-
	3		6	878	851	-
	4		4	632	570	-
	Total:		24	3510	3315	0
	1	Industrial	5	9	0	-
	2		2	2	0	-
	3		1	1	0	-
	4		2	2	0	-
	Total:		10	14	0	0
Skagerrak	1	Human consumption	2	503	467	-
	2		3	471	449	-
	3		3	514	510	-
	4		3	461	453	-
	Total:		11	1949	1879	0
	1	Industrial	3	3	0	-
	2		-	-	-	-
	3		1	2	0	-
	4		1	1	0	-
	Total:		5	6	0	0

1992		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Division IVa, E	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		1	1	0	-
	4		-	-	-	-
	Total:		1	1	0	0
Division IVb	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		1	1	1	-
	4		-	-	-	-
	Total:		1	1	1	0
North Sea	1	Human consumption	6	925	877	-
	2		11	1137	1087	-
	3		10	996	984	-
	4		9	1073	1046	-
	Total:		36	4131	3994	0

SAMPLING DATA FOR:
DENMARK

SOLE

1992		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Kattegat	1	Human consumption	3	280	280	-
	2		2	324	324	-
	3		3	383	380	-
	4		-	-	-	-
	Total:		8	987	984	0
Skagerrak	1	Human consumption	2	182	182	-
	2		-	-	-	-
	3		1	43	43	-
	4		-	-	-	-
	Total:		3	225	225	0
Division IVb	1	Human consumption	-	-	-	-
	2		5	695	351	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		5	695	351	0

SAMPLING DATA FOR:
DENMARK

DAB

1992		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Western Baltic	1	Human consumption	1	96	92	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	96	92	0

1992

		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Belt Sea	1	Human consumption	-	-	-	-
	2		1	77	73	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	77	73	0
	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	1	0	-
	Total:		1	1	0	0
Kattegat	1	Human consumption	1	174	172	-
	2		1	170	170	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		2	344	342	0
	1	Industrial	6	136	0	-
	2		7	33	0	-
	3		2	40	0	-
	4		13	96	0	-
	Total:		28	305	0	0
Skagerrak	1	Industrial	10	96	0	-
	2		5	23	0	-
	3		7	19	1	-
	4		5	31	0	-
	Total:		27	169	1	0
Division IVa, E	1	Industrial	2	3	0	-
	2		-	-	-	-
	3		1	4	0	-
	4		-	-	-	-
	Total:		3	7	0	0
Division IVa, W	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		1	4	0	-
	Total:		1	4	0	0
Division IVb	1	Industrial	7	41	0	-
	2		3	17	0	-
	3		8	31	0	-
	4		5	26	0	-
	Total:		23	115	0	0

SAMPLING DATA FOR:
DENMARK

LONG ROUGH DAB

1992

Area	Quarter	Fishery	N samples	Market samples		
				N measured	N aged	Racial invest.
Kattegat	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		-	-	-	-
	4		5	24	0	-
	Total:		5	24	0	0
Skagerrak	1	Industrial	2	13	0	-
	2		3	34	0	-
	3		21	316	0	-
	4		8	60	0	-
	Total:		34	423	0	0
Division IVa, E	1	Industrial	1	2	0	-
	2		-	-	-	-
	3		2	2	0	-
	4		-	-	-	-
	Total:		3	4	0	0
Division IVa, W	1	Industrial	-	-	-	-
	2		-	-	-	-
	3		2	2	0	-
	4		11	52	0	-
	Total:		13	54	0	0
Division IVb	1	Industrial	2	1	0	-
	2		3	13	0	-
	3		4	9	0	-
	4		4	42	0	-
	Total:		13	65	0	0

SAMPLING DATA FOR:
DENMARK

FLOUNDER

1992

Area	Quarter	Fishery	N samples	Market samples		
				N measured	N aged	Racial invest.
Eastern Baltic	1	Human consumption	1	77	76	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	77	76	0
	1	Industrial	1	1	0	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	1	0	0
Belt Sea	1	Human consumption	1	22	22	-
	2		-	-	-	-
	3		1	56	56	-
	4		-	-	-	-
	Total:		2	78	78	0

1992		Market samples				
Area	Quarter	Fishery	N samples	N measured	N aged	Racial invest.
Kattegat	1	Industrial	1	1	0	-
	2		-	-	-	-
	3		-	-	-	-
	4		-	-	-	-
	Total:		1	1	0	0

FAROES

(J. Reinert)

The sampling programme for commercial catches of cod, haddock, saithe, Norway pout, tusk, ling, blue ling and redfish was continued in 1992. In addition samples of the species mentioned were taken from research vessel catches. The tables provide more details. The following research cruises with relevance to the Demersal Fish Committee were made in 1992:

1. In January-February *R/V Magnus Heinason* carried out fishing experiments in order to evaluate the performance of the boxtrawl used in the Groundfish Surveys. These experiments were continued in November-December.
2. The Faroese Groundfish Surveys with *R/V Magnus Heinason* were continued in March, specially designed for cod and haddock, in April specially for redfish and Faroe Bank cod and in July with special emphasize on saithe.
3. In April-May *R/V Magnus Heinason* carried out experiments to investigate the survival of fish escaping through the trawl meshes.
4. In June-July *R/V Magnus Heinason* continued the 0-group surveys in Faroese waters to get information on the year-class strength of cod, haddock, Norway pout and sandeel.
5. In September-October a survey was carried out with *R/V Magnus Heinason* in deeper waters West and Southwest of the Faroes to investigate the distribution of *Hoplostethus atlanticus* and other deepwater species in national and international waters.

In all surveys with *R/V Magnus Heinason* biological samples were taken as a routine for most fish species from almost every haul and the measurements were entered into the computer system automatically. Since all data have not been edited yet, the number of samples and measurements by species for 1992 can not be given at this stage.

SAMPLING DATA FOR:

COD

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	39	8609	1515
	2	*	*	*	27	3670	919
	3	*	*	*	64	6624	537
	4	*	*	*	40	5843	754
	Total:	0	0	0	170	24746	3725

SAMPLING DATA FOR:

HADDOCK

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	26	11572	647
	2	*	*	*	18	3780	441
	3	*	*	*	32	7345	276
	4	*	*	*	22	7389	499
	Total:	0	0	0	98	30086	1863

SAMPLING DATA FOR:

SAITHE

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	34	7805	599
	2	*	*	*	26	5481	648
	3	*	*	*	40	7406	546
	4	*	*	*	36	3687	549
	Total:	0	0	0	136	24379	2342

SAMPLING DATA FOR:

NORWAY POUT

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	7	817	-
	2	*	*	*	4	698	-
	3	*	*	*	3	453	-
	4	*	*	*	7	1077	-
	Total:	0	0	0	21	3045	0

SAMPLING DATA FOR:

Sebastes marinus

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	-	-	-
	2	*	*	*	2	261	-
	3	*	*	*	1	8	-
	4	*	*	*	3	480	-
	Total:	0	0	0	6	749	0

SAMPLING DATA FOR:

Sebastes mentella

FAROES

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	2	1036	-
	2	*	*	*	7	3366	-
	3	*	*	*	6	3021	-
	4	*	*	*	8	5681	-
	Total:	0	0	0	23	13104	0

SAMPLING DATA FOR:

TUSK

FAROES

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	-	-	-
	2	*	*	*	-	-	-
	3	*	*	*	5	718	-
	4	*	*	*	-	-	-
	Total:	0	0	0	5	718	0

SAMPLING DATA FOR:

LING

FAROES

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	-	-	-
	2	*	*	*	1	439	-
	3	*	*	*	8	803	-
	4	*	*	*	2	192	-
	Total:	0	0	0	11	1434	0

SAMPLING DATA FOR:

BLUE LING

FAROES

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	2	361	-
	2	*	*	*	5	449	-
	3	*	*	*	4	421	-
	4	*	*	*	3	394	-
	Total:	0	0	0	14	1625	0

SAMPLING DATA FOR:

HALIBUT

FAROES

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	*	*	*	-	-	-
	2	*	*	*	-	-	-
	3	*	*	*	6	235	-
	4	*	*	*	-	-	-
	Total:	0	0	0	6	235	0

*) = Detailed information on all research vessel samples not available at this stage.

FEDERAL REPUBLIC OF GERMANY

(S. Ehrich)

The biological sampling programme of demersal species on board of research vessels, commercial trawlers and on fish markets has been continued.

A comprehensive sampling scheme, including length frequency measurements, otolith sampling, individual fish weights, tagging of fish, stomach sampling as well as studies on fish density and distribution of demersal fish species was carried out during groundfish surveys.

The monthly by-catch analysis of the shrimp fishery has been continued, as well as the joint investigations in the Wadden Sea area of Niedersachsen and Schleswig-Holstein (Young Fish and Brown Shrimp Survey) in spring and autumn together with vessels from the Netherlands and Belgium.

North Sea groundfish surveys with special emphasis on the gadoid and pelagic species has been repeated.

Research vessel cruises related to the national sampling scheme of demersal species were as follows:

R/V WALTHER HERWIG surveys in 1992

Survey no.	Period	ICES area	Objectives
1	January-February	IVa, b, VIa	IYFS
2	April	VIb, VII	Pelagic survey
3	May-June	IVa, b	Groundfish survey
4	July-August	IVa, b	Groundfish survey
5	September	XIV	Groundfish survey
6	November-December	XIVb; NAFO 1B-1F	Groundfish survey

R/V SOLEA surveys in 1992

Survey no.	Period	ICES area	Objectives
1	January	IVb	Brown shrimp beam trawl survey
2	February	IVb	IYFS
3	May-June	IVb	Sole beam trawl survey
4	July-July	IVa	Groundfish survey
5	July	IVa, b, c	Groundfish survey
6	September-October	IVb, c	Sole beam trawl survey

Notes in the tables refer to following samplings and surveys:

- 1) Samples taken on board of commercial vessels
- 2) Groundfish survey
- 3) Young fish and brown shrimp survey
- 4) Shrimp by-catch investigations
- 5) Brown shrimp beam trawl survey
- 6) Sole beam trawl survey

SAMPLING DATA FOR:
GERMANY

COD

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IIa	1	-	-	-	-	-	-
	2 1)	-	-	-	21	6212	502
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	21	6212	502
IIb	1	-	-	-	-	-	-
	2 1)	-	-	-	41	9460	634
	3	-	-	-	-	-	-
	4 1)	-	-	-	20	4020	284
	Total:	0	0	0	61	13480	918
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	41	259	207	-	-	-
	2 2)	41	325	305	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	82	584	512	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 2)	68	1010	313	-	-	-
	1 5)	25	507	-	-	-	-
	2 2)	86	2293	1044	-	-	-
	2 3)	14	30	-	-	-	-
	2 4)	5	38	-	-	-	-
	2 6)	76	320	-	-	-	-
	3 2)	143	11854	1593	-	-	-
	3 6)	13	107	-	-	-	-
	4 1)	-	-	-	22	6105	-
	4 3)	10	16	-	9	2534	501
	Total:	440	16175	2950	31	8639	501
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVc	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3 2)	20	203	-	-	-	-
	4	-	-	-	-	-	-
	Total:	20	203	0	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VII g-k	1	-	-	-	-	-	-
	2 2)	13	31	31	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	13	31	31	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
XIVb	1	-	-	-	3	1241	650
	2	-	-	-	2	859	411
	3	-	-	-	1	376	190
	4 2)	13	85	85	-	-	-
	Total:	13	85	85	6	2476	1251

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NAFO 1B-1F	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4 2)	31	160	160	-	-	-
	Total:	31	160	160	0	0	0

SAMPLING DATA FOR:

HADDOCK

GERMANY

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IIb	1	-	-	-	-	-	-
	2 1)	-	-	-	4	1473	201
	3	-	-	-	-	-	-
	4 1)	-	-	-	8	2578	354
	Total:	0	0	0	12	4051	555
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	59	12713	249	-	-	-
	2 2)	39	9084	494	-	-	-
	3 2)	9	1969	124	-	-	-
	4	-	-	-	-	-	-
	Total:	107	23766	867	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 2)	16	2750	328	-	-	-
	2 2)	57	5241	534	-	-	-
	3 2)	61	8993	417	-	-	-
	4	-	-	-	-	-	-
	Total:	134	16984	1279	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIa	1 2)	7	545	75	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	7	545	75	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIIb, c	1	-	-	-	-	-	-
	2 2)	4	78	45	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	4	78	45	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VII g-k	1	-	-	-	-	-	-
	2 2)	13	189	61	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	13	189	61	0	0	0

SAMPLING DATA FOR:

WHITING

GERMANY

1992

		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	41	9983	350	-	-	-
	2 2)	33	3686	511	-	-	-
	3 2)	9	1831	117	-	-	-
	4	-	-	-	-	-	-
	Total:	83	15500	978	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 2)	73	13056	631	-	-	-
	1 5)	27	2050	-	-	-	-
	2 2)	58	10285	780	-	-	-
	2 3)	41	129	-	-	-	-
	2 4)	9	27	-	-	-	-
	2 6)	3	25	-	-	-	-
	3 2)	142	34479	1552	-	-	-
	3 3)	13	27	-	-	-	-
	3 6)	16	92	-	-	-	-
	4 1)	-	-	-	22	1279	-
	4 3)	24	53	-	-	-	-
	Total:	406	60223	2963	22	1279	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVc	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3 2)	14	2248	-	-	-	-
	4	-	-	-	-	-	-
	Total:	14	2248	0	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIIe	1	-	-	-	-	-	-
	2 2)	3	355	222	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	3	355	222	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VII g-k	1	-	-	-	-	-	-
	2 2)	125	86	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	125	86	0	0	0	0

SAMPLING DATA FOR:

NORWAY POUT

GERMANY

1992

		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	37	6288	-	-	-	-
	2 2)	27	4376	130	-	-	-
	3 2)	8	837	-	-	-	-
	4	-	-	-	-	-	-
	Total:	72	11501	130	0	0	0

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 2)	8	702	-	-	-	-
	2 2)	34	2677	170	-	-	-
	3 2)	39	27486	-	-	-	-
	4	-	-	-	-	-	-
	Total:	81	30865	170	0	0	0

SAMPLING DATA FOR:

BLUE LING

GERMANY

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
XIV	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3 2)	1	24	24	1	337	156
	4	-	-	-	-	-	-
	Total:	1	24	24	1	337	156

SAMPLING DATA FOR:

SAITHE

GERMANY

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IIa	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	1	427	212
	4	-	-	-	3	9368	788
	Total:	0	0	0	4	9795	1000
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	1	754	532	9	4647	2297
	2 2)	2	1176	1038	9	4135	2045
	3	-	-	-	8	4072	2061
	4	-	-	-	6	3178	1811
	Total:	3	1930	1570	32	16032	8214
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIa	1 2)	1	88	88	3	1699	881
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	1	88	88	3	1699	881

SAMPLING DATA FOR:

POLLACK

GERMANY

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1 2)	1	63	63	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	1	63	63	0	0	0

SAMPLING DATA FOR:

SOLE

GERMANY

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IVb	1	-	-	-	-	-	-
	2 3)	87	1018	-	-	-	-
	2 4)	28	312	-	-	-	-
	2 6)	119	4545	816	-	-	-
	3 3)	27	72	-	-	-	-
	3 6)	50	771	176	-	-	-
	4 3)	26	109	-	-	-	-
	Total:	337	6827	992	0	0	0

SAMPLING DATA FOR:

DAB

GERMANY

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 4)	2	22	-	-	-	-
	1 5)	3	403	-	-	-	-
	2 3)	112	2151	-	-	-	-
	2 4)	25	258	-	-	-	-
	2 6)	64	2881	-	-	-	-
	3 3)	38	504	-	-	-	-
	3 6)	62	9816	753	-	-	-
	4 1)	-	-	-	22	4495	-
	4 3)	80	697	-	-	-	-
	Total:	386	16732	753	22	4495	0

SAMPLING DATA FOR:

PLAICE

GERMANY

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IVb	1 4)	3	586	-	-	-	-
	1 5)	4	325	-	-	-	-
	2 3)	141	3942	-	-	-	-
	2 4)	35	3341	-	-	-	-
	2 6)	75	4280	-	-	-	-
	3 3)	53	1341	-	-	-	-
	3 4)	7	460	-	-	-	-
	3 6)	60	5912	972	-	-	-
	4 1)	-	-	-	22	257	-
	4 3)	102	3963	-	-	-	-
	Total:	480	24150	972	22	257	0

SAMPLING DATA FOR:
GERMANY

FLOUNDER

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1	-	-	-	-	-	-
	2 3)	72	516	-	-	-	-
	2 4)	21	179	-	-	-	-
	3 3)	30	93	-	-	-	-
	3 4)	4	69	-	-	-	-
	3 6)	62	9816	-	-	-	-
	4 1)	-	-	-	22	1274	-
	4 3)	64	430	-	-	-	-
Total:		253	11103	0	22	1274	0

SAMPLING DATA FOR:
GERMANY

GREENLAND HALIBUT

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
XIVb	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	1	179	-
	4 2)	11	68	-	-	-	-
	Total:	11	68	0	1	179	0

SAMPLING DATA FOR:
GERMANY

TURBOT

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVb	1	-	-	-	-	-	-
	2 5)	70	172	-	-	-	-
	3 5)	21	58	-	-	-	-
	4	-	-	-	-	-	-
	Total:	91	230	0	0	0	0

SAMPLING DATA FOR:
GERMANY

Sebastes marinus

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IIa	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	1	742	-
	Total:	0	0	0	1	742	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
XIV	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3 2)	16	919	-	-	-	-
	4	-	-	-	-	-	-
	Total:	16	919	0	0	0	0

SAMPLING DATA FOR:

Sebastes mentella

GERMANY

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
Vb	1	-	-	-	1	706	-
	2	-	-	-	3	1187	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	4	1893	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
XIV	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3 2)	10	673	-	-	-	-
	4	-	-	-	-	-	-
	Total:	10	673	0	0	0	0

FINLAND

(E. Aro)

No activities carried out on demersal fishes other than that reported to the Baltic Fish Committee.

FRANCE

(C. Mellon-Duval)

SAMPLING DATA FOR:

COD

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	34	-	693	267	-
	2	-	-	-	-	-
	3	32	-	990	593	-
	4	-	-	-	-	-
	Total:	66	0	1683	860	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	13	-	238	115	-
	2	-	-	-	-	-
	3	7	-	55	54	-
	4	5	-	15	15	-
	Total:	25	0	308	184	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIa	1	-	39	840	304	-
	2	-	22	684	190	-
	3	-	18	452	147	-
	4	-	44	1141	360	-
	Total:	0	123	3117	1001	0

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VII d	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	17	-	49	42	-
	Total:	17	0	49	42	0
Area	Quarter	Research	Market	N measured	N aged	Other
VII f, g	1	-	26	448	307	-
	2	-	27	385	292	-
	3	-	32	950	378	-
	4	76	22	426	247	-
	Total:	76	107	2209	1224	0

SAMPLING DATA FOR:

HADDOCK

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IV b	1	12	-	498	241	-
	2	-	-	-	-	-
	3	12	-	649	246	-
	4	-	-	-	-	-
	Total:	24	0	1147	487	0
Area	Quarter	Research	Market	N measured	N aged	Other
IV c	1	-	-	-	12	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	-	-	-	-
	Total:	0	0	0	12	0
Area	Quarter	Research	Market	N measured	N aged	Other
VI a	1	-	16	1355	-	-
	2	-	9	740	-	-
	3	-	14	982	-	-
	4	-	34	2677	-	-
	Total:	0	73	5754	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VII g, j	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	26	-	271	-	-
	Total:	26	0	271	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIII a	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	6	-	10	-	-
	Total:	6	0	10	0	0

SAMPLING DATA FOR:

WHITING

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	38	-	6114	790	-
	2	-	-	-	-	-
	3	41	-	5599	613	-
	4	-	-	-	-	-
	Total:	79	0	11713	1403	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	15	-	1590	349	-
	2	-	-	-	-	-
	3	16	-	2843	367	-
	4	3	-	76	43	-
	Total:	34	0	4509	759	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIId	1	-	10	827	333	-
	2	-	9	861	332	-
	3	-	3	197	-	-
	4	25	7	2698	893	-
	Total:	25	29	4583	1558	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIf, g	1	-	19	1735	403	-
	2	-	17	1642	473	-
	3	-	16	1625	449	-
	4	-	24	1867	412	-
	Total:	0	76	6869	1737	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIg, j	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	22	-	561	243	-
	Total:	22	0	561	243	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIa	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	18	-	1050	190	-
	Total:	18	0	1050	190	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIb	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	5	-	385	52	-
	Total:	5	0	385	52	0

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	27	15	964	-	-
	2	35	9	848	-	-
	3	26	4	1349	-	-
	4	24	9	1141	-	-
	Total:	112	37	4302	0	0

SAMPLING DATA FOR:

BIB (*Trisopterus luscus*)

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVb	1	10	-	35	-	-
	2	-	-	-	-	-
	3	4	-	9	-	-
	4	-	-	-	-	-
	Total:	14	0	44	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	6	-	78	66	-
	2	-	-	-	-	-
	3	7	-	158	95	-
	4	1	-	21	21	-
	Total:	14	0	257	182	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIId	1	-	7	903	119	-
	2	-	9	930	132	-
	3	-	6	645	98	-
	4	16	7	1681	262	-
	Total:	16	29	4159	611	0

SAMPLING DATA FOR:

NORWAY POUT

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVb	1	11	-	439	71	-
	2	6	-	524	55	-
	3	-	-	-	-	-
	4	-	-	-	-	-
	Total:	17	0	963	126	0

SAMPLING DATA FOR:

HAKE

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VI	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	3	84	-	-
	4	-	3	172	-	-
	Total:	0	6	256	0	0

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VII	1	-	8	318	-	-
	2	-	11	306	-	-
	3	-	10	456	-	-
	4	-	13	580	-	-
	Total:	0	42	1660	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	31	92	7688	233	-
	2	42	84	9049	310	-
	3	40	70	6721	307	-
	4	33	75	4051	310	-
	Total:	146	321	27509	1160	0

SAMPLING DATA FOR:

SAITHE

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIa	1	-	46	1240	293	-
	2	-	28	1087	199	-
	3	-	39	1301	273	-
	4	-	43	1682	326	-
	Total:	0	156	5310	1091	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIg,j	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	3	-	14	14	-
	Total:	3	0	14	14	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIa	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	1	-	1	-	-
	Total:	1	0	1	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIb	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	1	-	1	-	-
	Total:	1	0	1	0	0

SAMPLING DATA FOR:

LING

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIa	1	-	18	451	215	-
	2	-	30	577	172	-
	3	-	15	369	172	-
	4	-	21	455	166	-
	Total:	0	84	1852	725	0

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIIe VIIIf, k VIIIa	1	-	29	637	230	-
	2	-	31	398	246	-
	3	-	44	858	343	-
	4	26	41	796	384	-
	Total:	26	145	2689	1203	0

SAMPLING DATA FOR:

BLUE LING

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIa	1	-	24	414	72	-
	2	-	44	774	292	-
	3	-	20	355	-	-
	4	-	20	294	-	-
	Total:	0	108	1837	364	0

SAMPLING DATA FOR:

POLLACK

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIIb, k	1	-	17	250	125	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	-	-	-	-
	Total:	0	17	250	125	0

SAMPLING DATA FOR:

SOLE

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	6	14	1093	-	-
	2	-	13	811	-	-
	3	9	8	858	-	-
	4	-	8	599	-	-
	Total:	15	43	3361	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	27	792	302	-
	2	-	31	1494	254	-
	3	-	15	797	312	-
	4	7	21	1087	211	-
	Total:	7	94	4170	1079	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	32	54	3199	223	-
	2	39	60	3321	300	-
	3	33	58	3279	149	-
	4	35	68	4579	300	-
	Total:	139	240	14378	972	0

SAMPLING DATA FOR:

PLAICE

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	35	-	1007	368	-
	2	-	-	-	-	-
	3	37	-	813	395	-
	4	-	-	-	-	-
	Total:	72	0	1820	763	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	12	5	243	42	-
	2	-	-	-	-	-
	3	8	12	743	11	-
	4	4	15	827	13	-
	Total:	24	32	1813	66	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	18	1359	419	-
	2	-	27	1349	304	-
	3	-	15	913	627	-
	4	24	22	1517	304	-
	Total:	24	82	5138	1654	0

SAMPLING DATA FOR:

MEGRIM

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
VIa	1	-	4	319	-	-
	2	-	4	365	-	-
	3	-	4	260	-	-
	4	-	4	308	-	-
	Total:	0	16	1252	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIb, k	1	-	65	3007	398	-
	2	-	55	2684	362	-
	3	-	50	2585	354	-
	4	-	65	2590	261	-
	Total:	-	235	10866	1375	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIa, b	1	-	35	1113	-	-
	2	-	25	722	-	-
	3	-	35	1238	-	-
	4	90	25	964	-	-
	Total:	90	120	4037	0	0

SAMPLING DATA FOR:

AMERICAN PLAICE

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	22	-	351	-	-
	2	-	-	-	-	-
	3	17	-	505	-	-
	4	-	-	-	-	-
	Total:	39	0	856	0	0

SAMPLING DATA FOR:

DAB

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	37	-	4477	-	-
	2	-	-	-	-	-
	3	45	-	4772	-	-
	4	-	-	-	-	-
	Total:	82	0	9249	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	14	-	734	-	-
	2	-	-	-	-	-
	3	15	-	1004	-	-
	4	5	-	47	34	-
	Total:	34	0	1785	34	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIId	1	-	5	736	116	-
	2	-	9	1163	146	-
	3	-	9	519	187	-
	4	24	7	1717	325	-
	Total:	24	30	4135	774	0

SAMPLING DATA FOR:

LEMON SOLE

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	16	-	77	-	-
	2	-	-	-	-	-
	3	17	-	167	-	-
	4	-	-	-	-	-
	Total:	33	0	244	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	5	-	51	-	-
	2	-	-	-	-	-
	3	3	-	28	-	-
	4	2	-	4	-	-
	Total:	10	0	83	0	0

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	8	-	14	-	-
	Total:	8	0	14	0	0

SAMPLING DATA FOR:

RED GURNARD

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	-	-	-	-	-
	2	-	-	-	-	-
	3	3	-	6	-	-
	4	1	-	5	-	-
	Total:	4	0	11	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	7	691	172	-
	2	-	14	1177	230	-
	3	-	5	589	185	-
	4	35	6	949	282	-
	Total:	35	32	3406	869	0

SAMPLING DATA FOR:

BASS

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	4	-	6	-	-
	Total:	4	0	6	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	18	-	297	-	-
	Total:	18	0	297	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	15	-	86	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	18	-	59	-	-
	Total:	33	0	145	0	0

SAMPLING DATA FOR:

NEPHROPS

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	18	6	1720	-	-
	2	41	5	4011	-	-
	3	35	4	4619	-	-
	4	25	5	2493	-	-
	Total:	119	20	12843	0	0

SAMPLING DATA FOR:

WHITE ANGLER (*Lophius piscatorius*)

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
IVa	1	-	8	215	-	-
	2	-	8	125	-	-
	3	-	4	106	-	-
	4	-	4	106	-	-
	Total:	0	24	552	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIb, k	1	-	174	1500	160	-
	2	-	156	1414	172	-
	3	-	120	1227	155	-
	4	-	150	1400	170	-
	Total:	0	600	5541	657	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIa, b, d	1	10	310	1112	98	-
	2	9	210	1004	91	-
	3	7	160	774	88	-
	4	14	213	1087	98	-
	Total:	40	893	3977	375	0

SAMPLING DATA FOR:

BLACK ANGLER (*Lophius budegassa*)

FRANCE

1992		Number of samples		Number of fish		
Area	Quarter	Research	Market	N measured	N aged	Other
VIIb, k	1	-	174	2248	122	-
	2	-	156	2121	115	-
	3	-	120	1840	110	-
	4	-	150	2200	115	-
	Total:	0	600	8409	462	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIIa, b, d	1	5	306	1761	65	-
	2	13	209	1326	76	-
	3	7	159	1231	60	-
	4	4	211	1393	72	-
	Total:	29	885	5711	273	0

SAMPLING DATA FOR:

RED MULLET

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
IVb	1	-	-	-	-	-
	2	-	-	-	-	-
	3	2	-	14	-	-
	4	-	-	-	-	-
	Total:	2	0	14	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
IVc	1	-	-	-	-	-
	2	-	-	-	-	-
	3	5	-	49	-	-
	4	2	-	15	-	-
	Total:	7	0	64	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIIId	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	25	-	256	-	-
	Total:	25	0	256	0	0
Area	Quarter	Research	Market	N measured	N aged	Other
VIII	1	25	7	525	-	-
	2	38	9	761	-	-
	3	8	4	264	-	-
	4	20	6	830	-	-
	Total:	91	26	2380	0	0

SAMPLING DATA FOR:

ROUNDNOSE GRENADIER

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
VII f, g	1	-	4	150	150	-
	2	-	4	140	140	-
	3	-	4	155	155	-
	4	-	4	150	150	-
	Total:	0	16	595	595	0

SAMPLING DATA FOR:

CUCKOO RAY (*Raja naevus*)

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
VIIb, k	1	-	12	408	-	-
	2	-	12	392	-	-
	3	-	12	243	-	-
	4	71	12	515	-	-
	Total:	71	48	1558	0	0

SAMPLING DATA FOR:

MEAGRE

FRANCE

1992

Area	Quarter	Number of samples		Number of fish		
		Research	Market	N measured	N aged	Other
VIII	1	-	6	251	-	-
	2	-	6	86	-	-
	3	-	-	-	-	-
	4	-	4	88	-	-
	Total:	0	16	425	0	0

ICELAND

(S. A. Schopka)

The biological sampling programme and research work on demersal fish was carried out in conventional manner and is thus based both on research vessel data and market samples.

The greatest part of the research vessel data was collected during the annual groundfish survey in March. The survey is carried out simultaneously with five commercial stern trawlers of the same type covering the whole shelf area around Iceland with 600 trawling stations.

Market samples were collected at the headquarters of the Marine Research Institute in Reykjavík and the five branches of MRI located at other important fishing ports. Fishery inspectors collected a considerable amount of data both on board of commercial fishing vessels and at the landing places.

Emphasis was laid on assessment work, as usual, and great steps were taken to increase studies on species interactions. For that purpose 57 308 stomachs of 51 species were collected for further investigations.

In 1992 only mature cod altogether 2 363 specimens were tagged for subpopulation studies. Tagging on other species did not take place.

The number of fish sampled by species are shown in the following tables.

SAMPLING DATA FOR:

COD

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	1261	-	68916	3684	4421
		-	61	6690	2370	-
	2	112	-	15980	1239	-
		-	69	8167	2698	-
	3	511	-	44488	2761	1854
		-	33	4951	953	-
	4	404	-	31190	2111	2073
		-	42	5863	784	-
	Total:	2288	205	186245	16600	8348

SAMPLING DATA FOR:

HADDOCK

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	922	-	92140	3128	3976
		-	25	2432	1000	-
	2	80	-	20138	757	-
		-	19	2779	600	-
	3	287	-	30193	2578	1768
		-	12	1640	394	-
	4	281	-	18004	2212	2017
		-	11	1539	300	-
	Total:	1570	67	168865	10969	7761

SAMPLING DATA FOR:

SAITHE

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	397	-	6598	1340	777
		-	24	3286	700	-
	2	39	-	5302	397	-
		-	19	1899	604	-
	3	109	-	4974	468	150
		-	13	812	554	-
	4	79	-	2091	385	177
		-	4	911	100	-
	Total:	624	60	25873	4548	1104

SAMPLING DATA FOR:

WHITING

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	153	-	3796	-	597
		-	-	-	-	-
	2	8	-	276	-	-
		-	-	-	-	-
	3	20	-	618	-	159
		-	-	-	-	-
	4	60	-	1215	-	348
		-	-	-	-	-
	Total:	241	0	5905	0	1104

SAMPLING DATA FOR:

LING

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	126	-	339	130	68
		-	-	-	-	-
	2	6	-	23	1	-
		-	2	291	-	-
	3	27	-	123	-	7
		-	-	-	-	-
	4	13	-	42	-	15
		-	1	3	-	-
Total:		172	3	821	131	90

SAMPLING DATA FOR:

BLUE LING

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	55	-	732	87	140
		-	-	-	-	-
	2	49	-	1030	141	-
		-	3	416	184	-
	3	19	-	87	-	43
		-	-	-	-	-
	4	13	-	104	-	46
		-	1	148	-	-
Total:		136	4	2517	412	229

SAMPLING DATA FOR:

TUSK

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	284	-	1401	367	340
		-	1	23	-	-
	2	11	-	17	-	-
		-	1	215	-	-
	3	54	-	218	-	71
		-	-	-	-	-
	4	36	-	71	-	42
		-	2	482	101	-
Total:		385	4	2427	468	453

SAMPLING DATA FOR:

Sebaster marinus

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	564	-	59636	-	2696
		-	11	3239	159	-
	2	11	-	857	-	-
		-	8	2537	193	-
	3	154	-	16035	-	1502
		-	12	3419	146	-
	4	143	-	8148	-	1548
		-	7	1394	361	-
	Total:	872	38	95265	859	5746

SAMPLING DATA FOR:

Sebastes mentella

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	39	-	1559	-	76
		-	2	307	143	-
	2	62	-	4260	505	-
		-	3	337	-	-
	3	34	-	1969	224	117
		-	-	-	-	-
	4	6	-	1458	-	15
		-	5	806	206	-
	Total:	141	10	10696	1078	208

SAMPLING DATA FOR:

Sebastes mentella "Type oceanicus"

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	-	-	-	-	-
		-	-	-	-	-
	2	62	-	7794	1755	-
		-	-	-	-	-
	3	19	-	1497	836	-
		-	-	-	-	-
	4	-	-	-	-	-
		-	-	-	-	-
	Total:	81	0	9291	2591	0

SAMPLING DATA FOR:

PLAICE

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	253	-	6516	485	633
		-	-	-	-	-
	2	16	-	1660	-	-
		-	-	-	-	-
	3	51	-	1801	24	361
		-	4	516	250	-
	4	54	-	1091	-	343
		-	5	682	200	-
	Total:	374	9	12266	959	1337

SAMPLING DATA FOR:

DAB

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	113	-	3983	-	406
		-	-	-	-	-
	2	17	-	1544	-	-
		-	-	-	-	-
	3	-	-	-	-	281
		-	-	-	-	-
	4	-	-	-	-	201
		-	-	-	-	-
	Total:	130	0	5527	0	888

SAMPLING DATA FOR:

GREAT SILVERSMELT

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	65	-	2322	163	392
		-	1	98	98	-
	2	11	-	87	-	-
		-	-	-	-	-
	3	39	-	2599	244	392
		-	-	-	-	-
	4	20	-	493	-	192
		-	-	-	-	-
	Total:	135	1	5599	505	976

SAMPLING DATA FOR:

CATFISH

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	421	-	15810	1531	3017
		-	-	-	-	-
	2	11	-	59	-	-
		-	2	725	329	-
	3	21	-	41	-	1353
		-	-	-	-	-
	4	-	-	-	-	875
		-	-	-	-	-
	Total:	453	2	16635	1860	5245

SAMPLING DATA FOR:

LUMPSUCKER

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	276	-	1352	-	-
		-	-	-	-	-
	2	4	-	4	-	-
		-	11	940	-	-
	3	3	-	3	-	2
		-	-	-	-	-
	4	47	-	105	-	93
		-	-	-	-	-
	Total:	330	11	2404	0	95

SAMPLING DATA FOR:

WITCH

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	188	-	1759	-	493
		-	-	-	-	-
	2	10	-	494	149	-
		-	2	170	100	-
	3	49	-	369	-	207
		-	-	-	-	-
	4	56	-	890	-	309
		-	2	152	100	-
	Total:	303	4	3834	349	1009

SAMPLING DATA FOR:

GREENLAND HALIBUT

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	63	-	3191	159	293
		-	3	593	198	-
	2	95	-	8103	1390	-
		-	5	1453	391	-
	3	178	-	1938	791	98
		-	1	100	100	-
	4	15	-	616	-	71
		-	2	408	130	-
Total:		351	11	16402	3159	462

SAMPLING DATA FOR:

HALIBUT

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	82	-	216	84	148
		-	-	-	-	-
	2	-	-	-	-	-
		-	-	-	-	-
	3	-	-	-	-	19
		-	-	-	-	-
	4	-	-	-	-	75
		-	-	-	-	-
Total:		82	0	216	84	242

SAMPLING DATA FOR:

ROUNDNOSE GRENADIER

ICELAND

1992

Area	Quarter	Number of samples		Number of fish		
		Research vessel	Market samples	Number measured	Number aged	Stomach samples
Va	1	-	-	-	-	-
		-	-	-	-	-
	2	45	-	364	2	-
		-	1	100	100	-
	3	-	-	-	-	-
		-	-	-	-	-
	4	-	-	-	-	-
		-	-	-	-	-
Total:		45	1	464	102	0

IRELAND

(P. Connolly)

The Demersal Section of the Fisheries Research Centre (FRC) is responsible for monitoring of fish stocks around Irish Coast. The FRC stock monitoring programme is focused on species of cod, whiting, haddock, plaice and sole in ICES Divisions VIIa (Irish Sea), VIa (West of Scotland), VIb (Rockall), VIIb, c (West of Ireland), VIIj, k (South West Ireland) and VIIg (Celtic Sea). This programme will be expanded in 1993 to include species of hake, monk and megrim. Length and age data were collected through a comprehensive sampling programme at the Dublin Fish Market and by contract samplers based at the main commercial ports. There were also several young fish surveys conducted in VIIa, VIa and VIIg and these data were used to supplement the sampling and ageing programmes and construct recruit indices for stock assessment purposes. There was no on board vessel sampling programme in 1992 but a comprehensive sea sampling programme will be commenced in 1993. The data were collated and analysed at the FRC and annual stock summaries were presented to ICES for use by the Northern Shelf and Southern Shelf Working Groups in the various international stock assessments. In 1992 the FRC aged 11,000 fish and measured 150,000 specimens.

The following surveys were undertaken in 1992:

Research Vessel Survey Programme in 1992

Survey no.	Month	Area	Research vessel	Objectives
1	May	VIIa	Commercial vessel	Young Plaice
2	June	VIIa	<i>R/V Lough Beltra</i>	Young Gadoids
3	July	VIIa	<i>R/V Lough Beltra</i>	Young Gadoids
4	July	VIIg	<i>R/V Lough Beltra</i>	Young Gadoids
5	November	VIa	<i>R/V Lough Foyle</i>	Groundfish Survey

SAMPLING DATA FOR:

COD

IRELAND

1992

Area	Quarter	Number of samples		Number of fish	
		Commercial	Research	N measured	N aged
VIa	1	-	-	-	-
	2	3	-	126	109
	3	4	-	142	122
	4	8	3	665	199
	Total:	15	3	933	430
VIb	Total:	35	-	991	-
VIIa	1	16	-	759	355
	2	56	14	1396	257
	3	59	2	1901	290
	4	44	-	1363	176
	Total:	175	16	5419	1078

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIIb, c	Total:	101	-	1885	-
VIIg	1	21	-	585	83
	2	16	-	313	-
	3	24	-	776	27
	4	3	-	216	56
	Total:	64	0	1890	166
VIIj, k	Total:	14	-	229	-
Total all year:		404	19	11347	1674

SAMPLING DATA FOR:

WHITING

IRELAND

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIa	1	3	-	698	172
	2	2	-	1976	132
	3	4	-	683	180
	4	10	8	3155	395
	Total:	19	8	6512	879
VIIb	Total:	-	-	-	-
VIIa	1	13	-	3451	333
	2	36	48	18936	681
	3	28	29	16258	571
	4	31	-	8564	103
	Total:	108	77	47209	1688
VIIb, c	Total:	56	-	8501	-
VIIg	1	18	-	2806	116
	2	10	-	1086	50
	3	8	-	1654	52
	4	20	-	4286	317
	Total:	56	0	9832	535
VIIj, k	Total:	16	-	1445	-
Total all year:		255	85	73499	3102

SAMPLING DATA FOR:

HADDOCK

IRELAND

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIa	1	3	-	703	162
	2	2	-	484	117
	3	5	-	701	176
	4	9	5	2386	209
	Total:	19	5	4274	664
VIIb	Total:	192	-	24170	629
VIIa	Total:	-	-	-	-

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIIb, c	Total:	56	-	8501	-
VIIg	Total:	-	-	-	-
VIIj, k	Total:	11	-	1329	-
Total all year:		278	5	38274	1293

SAMPLING DATA FOR:

PLAICE

IRELAND

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIa	Total:	-	-	-	-
VIb	Total:	-	-	-	-
VIIa	1	6	-	700	264
	2	13	65	6275	1009
	3	9	11	2090	335
	4	4	-	2144	110
	Total:	32	76	11209	1718
VIIb, c	Total:	41	-	4678	-
VIIg	1	16	-	1779	151
	2	29	-	3073	233
	3	13	-	1294	82
	4	38	-	3854	261
	Total:	96	0	10000	727
VIIj, k	Total:	-	-	-	-
Total all year:		169	76	25887	2445

SAMPLING DATA FOR:

BLACK SOLE

IRELAND

1992		Number of samples		Number of fish	
Area	Quarter	Commercial	Research	N measured	N aged
VIa	Total:	-	-	-	-
VIb	Total:	-	-	-	-
VIIa	1	1	-	354	135
	2	-	-	-	-
	3	-	-	-	-
	4	1	-	279	141
	Total:	2	0	633	276
VIIb, c	Total:	19	-	1091	-
VIIg	Total:	7	-	486	-
VIIj, k	Total:	10	-	1146	-
Total all year:		38	0	3356	276

THE NETHERLANDS

(F. van Beek and H. Heessen)

In 1992 the market sampling of landings of the Dutch fleet from the North Sea in The Netherlands was continued for the following species: Cod (*Gadus morhua*), plaice (*Pleuronectes platessa*), sole (*Solea solea*), whiting (*Merlangius merlangus*) and the greater silversmelt (*Argentina silus*). Market sampling for brill (*Scophthalmus rhombus*) and turbot (*Scophthalmus maximus*) was continued. For all species samples were taken stratified by harbour. All samples were also stratified by market category. The tables below indicate the level of sampling.

In all four quarters *R/V Tridens* participated in the International Bottom Trawl Survey (11 weeks). Surveys were carried out with the GOV-trawl. *R/V Isis* participated in quarters 2 and 4 in these surveys (6 weeks).

In April and May *R/V Isis* fished in the southeastern North Sea with the MIK-trawl to investigate the distribution of cod larvae.

In the southwestern part of the North Sea about 800 dab (*Limanda limanda*) and about 2 100 starry ray (*Raja radiata*) were tagged near the Dogger bank with a red Petersen disc on board of *R/V Isis* (2 weeks).

In September -October a SNS survey (Sole Net Survey) was carried out by *R/V Tridens* (2 weeks) in a restricted part of the survey grid. This survey provides recruitment indices for 1- and 2-year-old plaice and sole.

In August-September the International Beam Trawl Survey (BTS) was carried out by *R/V Isis* (5 weeks) in the southern North Sea and in the English Channel in collaboration with Belgium, Germany and the U.K. This survey investigated the abundance and distribution of adult plaice and sole in this area.

The International Demersal Young Fish Surveys (DYFS) were continued in September-October by *R/V Isis* (3 weeks), *R/V Stern* (4 weeks), *R/V Schollevaar* (2 weeks). These surveys estimated the relative abundance of brown shrimp (*Crangon crangon*) and juvenile plaice and sole in the continental nursery areas. The surveys are carried out since 1969 in collaboration with Belgium and Germany.

SAMPLING DATA FOR:
THE NETHERLANDS

COD

1992

Area *)	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
NRFA 1	1	-	-	25	-	-	-
	2	-	-	-	-	-	-
	3	-	-	97	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	122	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 2	1	-	-	-	-	-	-
	2	-	-	105	-	-	-
	3	-	-	118	-	-	-
	4	-	-	4	-	-	-
	Total:	0	0	227	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 3	1	-	-	115	-	-	-
	2	-	-	21	-	-	-
	3	-	-	31	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	167	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 4	1	-	-	-	-	-	-
	2	-	-	58	-	-	-
	3	-	-	99	-	-	-
	4	-	-	97	-	-	-
	Total:	0	0	254	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 5	1	-	-	20	-	-	-
	2	-	-	40	-	61	-
	3	-	-	4	-	-	-
	4	-	-	54	-	50	50
	Total:	0	0	118	0	111	50
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 6	1	-	-	172	-	1815	606
	2	-	-	355	-	992	348
	3	-	-	61	-	1333	291
	4	-	-	208	-	2792	494
	Total:	0	0	796	0	6932	1739
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 7	1	-	-	-	-	-	-
	2	-	-	77	-	-	-
	3	-	-	101	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	178	0	0	0
Total in all areas and quarters:		0	0	1862	0	7043	1789

*)=North Sea Roundfish Sampling areas

SAMPLING DATA FOR:
THE NETHERLANDS

SILVER SMELT

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1	-	-	-	-	-	-
	2	-	-	-	-	100	50
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	100	50
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIa	1	-	-	-	-	-	-
	2	-	-	-	-	815	250
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	815	250
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
VIIc	1	-	-	-	-	63	25
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	63	25
Total in all areas and quarters:		0	0	0	0	978	325

SAMPLING DATA FOR:
THE NETHERLANDS

HADDOCK

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 1	1	-	-	127	-	-	-
	2	-	-	-	-	-	-
	3	-	-	153	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	280	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 2	1	-	-	-	-	-	-
	2	-	-	205	-	-	-
	3	-	-	140	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	345	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 3	1	-	-	247	-	-	-
	2	-	-	134	-	-	-
	3	-	-	136	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	517	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 4	1	-	-	-	-	-	-
	2	-	-	118	-	-	-
	3	-	-	94	-	-	-
	4	-	-	74	-	-	-
	Total:	0	0	286	0	0	0

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 5	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 6	1	-	-	-	-	-	-
	2	-	-	2	-	-	-
	3	-	-	-	-	-	-
	4	-	-	16	-	-	-
	Total:	0	0	18	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 7	1	-	-	-	-	-	-
	2	-	-	108	-	-	-
	3	-	-	107	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	215	0	0	0
Total in all areas and quarters:		0	0	1661	0	0	0

*)=North Sea Roundfish Sampling areas

SAMPLING DATA FOR:

NORWAY POUT

THE NETHERLANDS

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 1	1	-	-	93	-	-	-
	2	-	-	-	-	-	-
	3	-	-	41	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	134	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 2	1	-	-	-	-	-	-
	2	-	-	47	-	-	-
	3	-	-	34	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	81	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 3	1	-	-	85	-	-	-
	2	-	-	23	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	108	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 4	1	-	-	-	-	-	-
	2	-	-	76	-	-	-
	3	-	-	28	-	-	-
	4	-	-	40	-	-	-
	Total:	0	0	144	0	0	0

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 5	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 6	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 7	1	-	-	-	-	-	-
	2	-	-	32	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	32	0	0	0
Total in all areas and quarters:		0	0	499	0	0	0

*)=North Sea Roundfish Sampling areas

SAMPLING DATA FOR:
THE NETHERLANDS

WHITING

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 1	1	-	-	133	-	-	-
	2	-	-	-	-	-	-
	3	-	-	88	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	221	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 2	1	-	-	-	-	-	-
	2	-	-	149	-	-	-
	3	-	-	83	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	232	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 3	1	-	-	273	-	-	-
	2	-	-	128	-	-	-
	3	-	-	137	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	538	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 4	1	-	-	-	-	-	-
	2	-	-	123	-	-	-
	3	-	-	136	-	-	-
	4	-	-	102	-	35	-
	Total:	0	0	361	0	35	0

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 5	1	-	-	130	-	-	-
	2	-	-	194	-	46	-
	3	-	-	73	-	-	-
	4	-	-	119	-	-	-
	Total:	0	0	516	0	46	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 6	1	-	-	248	-	3043	300
	2	-	-	278	-	2040	250
	3	-	-	116	-	2561	300
	4	-	-	329	-	3045	300
	Total:	0	0	971	0	10689	1150
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 7	1	-	-	-	-	-	-
	2	-	-	87	-	-	-
	3	-	-	120	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	207	0	0	0
Total in all areas and quarters:		0	0	3046	0	10770	1150

*)=North Sea Roundfish Sampling areas

SAMPLING DATA FOR:

SAITHE

THE NETHERLANDS

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 1	1	-	-	8	-	-	-
	2	-	-	-	-	-	-
	3	-	-	95	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	103	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 2	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 3	1	-	-	-	-	-	-
	2	-	-	1	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	1	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 4	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0

1992		Research vessel samples			Market samples		
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 5	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 6	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	0	0	0	0
Area *)	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
NRFA 7	1	-	-	-	-	-	-
	2	-	-	4	-	-	-
	3	-	-	1	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	5	0	0	0
Total in all areas and quarters:		0	0	109	0	0	0

*)=North Sea Roundfish Sampling areas

SAMPLING DATA FOR:

PLAICE

THE NETHERLANDS

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	-	-	1620
	2	-	-	-	-	-	1018
	3	-	-	583	-	-	1016
	4	-	-	1070	-	-	1081
	Total:	0	0	1653	0	0	4735
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Wadden Sea	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	187	-	-	-
	Total:	0	0	187	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Zeeland estuary	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	126	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	126	0	0	0
Total in all areas and quarters:		0	0	1966	0	0	4735

SAMPLING DATA FOR:
THE NETHERLANDS

SOLE

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	-	-	850
	2	-	-	-	-	-	1496
	3	-	-	427	-	-	800
	4	-	-	689	-	-	750
	Total:	0	0	1116	0	0	3896
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Wadden Sea	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	31	-	-	-
	Total:	0	0	31	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Zeeland estuary	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	77	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	77	0	0	0
Total in all areas and quarters:		0	0	1224	0	0	3896

SAMPLING DATA FOR:
THE NETHERLANDS

TURBOT

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	214	-	-	-
	4	-	-	53	-	-	-
	Total:	0	0	267	0	0	0

SAMPLING DATA FOR:
THE NETHERLANDS

BRILL

1992

Area	Quarter	Research vessel samples			Market samples		
		N samples	N measured	N aged	N samples	N measured	N aged
IV	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	126	-	-	-
	4	-	-	52	-	-	-
	Total:	0	0	178	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Wadden Sea	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	3	-	-	-
	Total:	0	0	3	0	0	0

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Zeeland estuary	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	5	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	5	0	0	0
Total in all areas and quarters:		0	0	186	0	0	0

SAMPLING DATA FOR:
THE NETHERLANDS

DAB

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
IVa	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	630	-	-	-
	4	-	-	502	-	-	-
	Total:	0	0	1132	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Wadden Sea	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	72	-	-	-
	Total:	0	0	72	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Zeeland estuary	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	33	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	33	0	0	0
Total in all areas and quarters:		0	0	1237	0	0	0

SAMPLING DATA FOR:
THE NETHERLANDS

FLOUNDER

1992		Research vessel samples			Market samples		
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Wadden Sea	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	65	-	-	-
	Total:	0	0	65	0	0	0
Area	Quarter	N samples	N measured	N aged	N samples	N measured	N aged
Zeeland estuary	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
	3	-	-	100	-	-	-
	4	-	-	-	-	-	-
	Total:	0	0	100	0	0	0
Total in all areas and quarters:		0	0	165	0	0	0

NORWAY

(J. E. Eliassen and T. Jakobsen)

Sub-areas I and II

Routine research surveys were carried out as in previous years, accounting for most of the activity at sea. Most of the activity is aimed at Northeast Arctic cod, but other species are also covered during the same surveys. The experiment to use commercial trawlers for a bottom trawl survey in the Barents Sea/Svalbard area was continued with six trawlers for two weeks. Stomach sampling for multispecies research was carried out on routine surveys throughout most of the year. Investigations on cod and haddock spawning (eggs and larvae) were combined with other surveys.

The abundance of cod, haddock and redfish in the Barents Sea was investigated during a combined acoustic and stratified bottom trawl survey in February-March. The distribution and abundance of spawning cod was investigated by acoustic survey in the Lofoten area in February-April. Combined with shrimp investigations, the distribution of young cod and haddock was studied in the central Barents Sea in May-June. The distribution of shrimp, cod, haddock, redfish and Greenland halibut was investigated in the Svalbard area in August-September. Part of this survey was included in the combined 0-group/multispecies survey carried out together with Russian vessels during the same period, when the distribution of cod, haddock, redfish and pelagic species was investigated in the Barents Sea. Stomach samples from cod and haddock were collected on all routine surveys for cod/haddock in the Barents Sea and at Svalbard and in addition on shrimp and pelagic fish surveys.

A new activity, carried out by the Norwegian Institute of Fisheries and Aquaculture, Tromsø, was a comprehensive investigation in the coastal areas and fjords of northern Norway in August-October, aimed at coastal cod and other coastal resources. Preliminary results indicate considerable biomasses of cod, haddock, saithe redfishes and herring in the coastal regions. Taggings made and recaptures obtained indicate for example local coastal cod stocks in the northern Norway.

In November a bottom trawl survey with six commercial trawlers was carried out during two weeks in the Barents Sea under the supervision of the Institute of Marine Research, Bergen. The results so far indicate that this could be a valuable survey, especially with regard to the older age groups of cod, which are poorly covered in the winter survey. In addition to the abundance estimation, emphasis was put on comparison between commercial trawls and the standard sampling trawl used by research vessels.

In August-September the international 0-group survey was carried out in the Barents Sea and adjacent waters in cooperation with Russian vessels.

An 0-group (post-larvae) survey for saithe was carried out from 62° N to the Lofoten Islands in April-May, and an acoustic survey for saithe and redfish was carried out on the coastal banks of Norway south to 62° N in October-November.

A survey investigating mature redfish along the continental shelf of Norway was carried out in April.

In 1992 direct fishery for Greenland halibut was banned, but in order to continue the series of commercial CPUE data, a fishery with selected vessels was allowed in two periods under the supervision of the Institute of Marine Research.

The sampling programme for commercial catches of cod haddock saithe redfish and Greenland halibut was continued.

Sub-area IV

Norway participated in the Quarterly International Bottom Trawl Surveys in three quarters. During four weeks in January-February the Norwegian part of the International Young Fish Survey was carried out. The other two surveys were carried out in May-June and in October-November. In the latter survey, acoustic abundance estimation of the resources in the northern North Sea was also attempted.

The annual acoustic survey for saithe in the North Sea was carried out in February. Stomach samples were collected on all surveys. In April-May the distribution of saithe post-larvae was studied. The sampling of commercial catches of saithe, sandeel and Norway pout was continued.

SAMPLING DATA FOR:

COD

NORWAY

1992

Area	Quarter	Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	93	1845	271	26100	5	409	39	3875
	2	-	-	100	7495	17	1500	18	1756
	3	40	951	318	23067	15	862	40	4627
	4	18	766	243	28105	-	-	-	-
	Total:	151	3562	932	84767	37	2771	97	10258
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	56	1529	210	11046	68	6787	42	4771
	2	11	432	99	3887	15	1200	23	3161
	3	11	217	93	6822	19	858	3	366
	4	18	419	122	3150	-	-	-	-
	Total:	96	2597	524	24905	102	8845	68	8298
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	3	75	102	11477	-	-	5	1546
	2	-	-	32	3141	-	-	14	634
	3	89	2386	508	49586	1	102	33	3422
	4	9	347	145	27628	-	-	-	-
	Total:	101	2808	787	91832	1	102	52	5602
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	26	250	49	397	3	235	-	-
	2	-	-	2	2	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	26	250	51	399	3	235	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	8	38	11	45	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	8	38	11	45	0	0	0	0

1992		Research vessel samples				Market samples			
Area	Quarter	Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

HADDOCK

NORWAY

1992		Research vessel samples				Market samples			
Area	Quarter	Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	90	1199	297	37504	3	263	13	1005
	2	-	-	88	3723	10	890	14	1433
	3	26	340	222	8831	17	601	15	1838
	4	12	413	184	18758	-	-	-	-
	Total:	128	1952	791	68816	30	1754	42	4276
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	42	786	227	14501	22	1926	9	454
	2	4	143	88	1007	12	866	6	708
	3	7	98	121	5316	17	798	11	1579
	4	12	554	107	6273	-	-	-	-
	Total:	65	1581	543	27097	51	3590	26	2741
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	1	12	65	4348	-	-	2	22
	2	-	-	10	109	-	-	6	212
	3	22	378	256	10285	-	-	-	-
	4	5	143	45	1230	-	-	-	-
	Total:	28	533	376	15972	0	0	8	234
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	15	381	72	4677	-	-	-	-
	2	-	-	28	418	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	15	381	100	5095	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	4	38	12	610	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	4	38	12	610	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	1	13	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	1	13	0	0	0	0

SAMPLING DATA FOR:

SAITHE

NORWAY

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	1	8	16	470	1	38	1	3
	2	-	-	30	497	3	160	-	-
	3	-	-	63	678	9	435	4	552
	4	13	248	41	1895	-	-	-	-
	Total:	14	256	150	3540	13	633	5	555
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	4	113	85	2136	13	1185	7	1054
	2	1	16	152	3007	5	464	1	160
	3	-	-	40	257	14	929	1	219
	4	30	1039	70	5668	-	-	-	-
	Total:	35	1168	347	11068	32	2578	9	1433
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	51	285	-	-	-	-
	4	-	-	14	51	-	-	-	-
	Total:	0	0	65	336	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	23	614	32	1009	1	54	2	530
	2	-	-	48	1166	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	23	614	80	2175	1	54	2	530
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	1	1	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	1	1	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	2	31	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	2	31	0	0	0	0

SAMPLING DATA FOR:
NORWAY

GREENLAND HALIBUT

1992		Research vessel samples				Market samples			
Area	Quarter	Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	5	66	70	594	-	-	-	-
	2	-	-	7	234	8	786	2	194
	3	8	95	38	369	-	-	-	-
	4	-	-	84	631	-	-	-	-
	Total:	13	161	199	1828	8	786	2	194
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	1	8	19	53	-	-	-	-
	2	56	2949	157	35515	3	248	-	-
	3	1	15	14	79	1	60	1	60
	4	17	606	73	9563	-	-	-	-
	Total:	75	3578	263	45210	4	308	1	60
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	2	27	57	3393	-	-	2	52
	2	-	-	12	465	-	-	12	854
	3	56	656	148	1682	-	-	-	-
	4	14	552	127	10168	-	-	-	-
	Total:	72	1235	344	15708	0	0	14	906
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

REDFISH

NORWAY

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	21	443	335	15084	1	50	8	389
	2	-	-	82	3348	-	-	12	444
	3	14	207	107	4429	4	190	2	84
	4	9	315	76	2586	-	-	-	-
	Total:	44	965	600	25447	5	240	22	917
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	25	556	341	12769	7	325	1	147
	2	28	1183	148	5632	2	120	5	364
	3	8	160	80	3612	5	222	1	129
	4	23	917	145	4737	-	-	-	-
	Total:	84	2816	714	26750	14	667	7	640
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	3	51	78	6262	-	-	-	-
	2	1	96	8	314	-	-	1	99
	3	60	1046	452	28470	-	-	-	-
	4	-	-	44	658	-	-	-	-
	Total:	64	1193	582	35704	0	0	1	99
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	10	41	-	-	-	-
	2	-	-	3	89	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	13	130	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

LING

NORWAY

1992

		Research vessel samples				Market samples			
Area	Quarter	Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	1	1	-	-	-	-
	Total:	0	0	1	1	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	11	27	-	-	-	-
	2	-	-	12	14	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	11	16	-	-	-	-
	Total:	0	0	34	57	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	10	24	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	10	24	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

TUSK

NORWAY

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	7	13	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	4	8	-	-	-	-
	4	-	-	7	15	-	-	-	-
	Total:	0	0	18	36	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	59	226	-	-	-	-
	2	-	-	23	60	-	-	-	-
	3	-	-	4	24	-	-	-	-
	4	-	-	36	120	-	-	-	-
	Total:	0	0	122	430	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	4	8	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	4	8	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	8	13	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	8	13	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

CATFISH

NORWAY

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	90	325	-	-	-	-
	2	-	-	1	4	-	-	-	-
	3	-	-	63	207	-	-	-	-
	4	-	-	97	254	-	-	-	-
	Total:	0	0	251	790	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	33	76	-	-	-	-
	2	-	-	96	486	-	-	-	-
	3	-	-	9	10	-	-	-	-
	4	-	-	29	100	-	-	-	-
	Total:	0	0	167	672	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	233	3074	-	-	-	-
	4	-	-	17	47	-	-	-	-
	Total:	0	0	250	3121	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	4	4	-	-	-	-
	2	-	-	33	129	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	37	133	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	1	1	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	1	1	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

WHITING

NORWAY

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	1	2	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	1	2	-	-	-	-
	Total:	0	0	2	4	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	10	31	-	-	-	-
	2	-	-	2	2	-	-	-	-
	3	-	-	29	146	-	-	-	-
	4	-	-	13	78	-	-	-	-
	Total:	0	0	54	257	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	9	243	53	3382	-	-	-	-
	2	-	-	4	23	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	9	243	57	3405	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	3	82	14	846	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	3	82	14	846	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:
NORWAY

BLUE WHITING

1992

		Research vessel samples				Market samples			
Area	Quarter	Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	46	979	-	-	-	-
	2	-	-	1	12	-	-	-	-
	3	-	-	13	383	-	-	-	-
	4	-	-	14	507	-	-	-	-
	Total:	0	0	74	1881	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	1	50	77	2379	-	-	-	-
	2	33	1632	85	4467	-	-	-	-
	3	36	2276	75	3265	-	-	-	-
	4	-	-	43	1210	-	-	-	-
	Total:	70	3958	280	11321	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	20	76	-	-	-	-
	4	-	-	1	3	-	-	-	-
	Total:	0	0	21	79	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	3	84	-	-	-	-
	2	3	266	4	268	-	-	-	-
	3	1	100	1	100	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	4	366	8	452	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	1	100	1	100	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	1	100	1	100	0	0	0	0

SAMPLING DATA FOR:

NORWAY POUT

NORWAY

1992

Area	Quarter	Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	37	1537	-	-	-	-
	2	-	-	1	59	-	-	-	-
	3	-	-	20	754	-	-	-	-
	4	-	-	13	638	-	-	-	-
	Total:	0	0	71	2988	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	79	4348	-	-	-	-
	2	-	-	55	1708	-	-	-	-
	3	-	-	16	543	-	-	-	-
	4	-	-	48	3129	-	-	-	-
	Total:	0	0	198	9728	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	9	41	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	9	41	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	5	81	61	4884	-	-	-	-
	2	-	-	46	870	-	-	-	-
	3	-	-	1	1	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	5	81	108	5755	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	1	42	8	412	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	1	42	8	412	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	1	30	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	1	30	0	0	0	0

SAMPLING DATA FOR:
NORWAY

SANDEEL

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	13	443	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	13	443	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	1	75	-	-	-	-
	2	-	-	26	58	-	-	-	-
	3	-	-	4	44	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	31	177	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	3	116	-	-	-	-
	2	-	-	45	537	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	48	653	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:

SILVER SMELT

NORWAY

1992

Area	Quarter	Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	2	3	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	3	8	-	-	-	-
	4	-	-	1	1	-	-	-	-
	Total:	0	0	6	12	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	28	479	-	-	-	-
	2	28	1388	59	2216	-	-	-	-
	3	1	9	14	83	-	-	-	-
	4	-	-	29	368	-	-	-	-
	Total:	29	1397	130	3146	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	1	32	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	1	9	1	9	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	1	9	2	41	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	1	100	2	104	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	1	100	2	104	0	0	0	0

SAMPLING DATA FOR:

PLAICE

NORWAY

1992

Area	Quarter	Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	48	346	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	10	79	-	-	-	-
	4	-	-	17	77	-	-	-	-
	Total:	0	0	75	502	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	6	128	-	-	-	-
	2	-	-	1	48	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	9	36	-	-	-	-
	Total:	0	0	16	212	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	3	15	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	3	15	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	10	122	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	10	122	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:
NORWAY

LONG ROUGH DAB

1992

Area	Quarter	Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
		N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	179	8263	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	1	22	130	6469	-	-	-	-
	4	-	-	29	821	-	-	-	-
	Total:	1	22	338	15553	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	99	2908	-	-	-	-
	2	-	-	12	98	-	-	-	-
	3	1	25	29	1141	-	-	-	-
	4	-	-	52	503	-	-	-	-
	Total:	1	25	192	4650	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	9	452	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	75	1526	363	23467	-	-	-	-
	4	-	-	43	1464	-	-	-	-
	Total:	75	1526	415	25383	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	59	1579	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	59	1579	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	11	212	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	11	212	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

SAMPLING DATA FOR:
NORWAY

DAB

1992

		Research vessel samples				Market samples			
		Aged		Measured		Aged		Measured	
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
I	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIa	1	-	-	-	-	-	-	-	-
	2	-	-	1	8	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	3	30	-	-	-	-
	Total:	0	0	4	38	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IIb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVa	1	-	-	12	331	-	-	-	-
	2	-	-	2	2	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	14	333	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
IVb	1	-	-	14	627	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	14	627	0	0	0	0
Area	Quarter	N samples	N fish	N samples	N fish	N samples	N fish	N samples	N fish
Vb	1	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	Total:	0	0	0	0	0	0	0	0

POLAND

(J. Janusz and M. Liwoch)

No biological samples were collected in the Northeast Atlantic by Poland in 1992.

PORTUGAL

(F. Cardador)

During 1992 the National Institute of Fisheries Research (INIP/IPIMAR, Lisbon) had continued its national sampling programme at the main fishing ports. The main objective of this sampling programme is to provide length frequency distributions of the landings for the most important commercial species.

The Portuguese Institute has carried out during 1992 three groundfish surveys on board of the *R/V Noruega*. These surveys covered the entire Portuguese coast from depths ranging from 20 to 750 m. The main goal of those surveys was to provide abundance indices and to study the distribution patterns of the most important species. The second aim of the surveys was to estimate the abundance and distribution of eggs and larvae of the main species in relation to basic environmental parameters.

Surveys took place in February-March, July and October-November. The methodology adopted was a fixed station scheme. Each survey had a duration of 30 fishing days, using a bottom trawl net (Norwegian Campbell Trawl) with 20 mm cod-end mesh-size. Trawl stations took place during day light with a mean tow duration of 60 minutes and mean trawl speed of 3.5 knots.

The following tables present the sampling data collected by INIP/IPIMAR for hake (*Merluccius merluccius*), black scabbard fish (*Aphanopus carbo*), some species of seabreams (*Boops boops*, *Pagellus acarne* and *Spondyllosoma cantharus*), monkfish (*Lophius budegassa* and *Lophius piscatorius*) and megrim (*Lepidorhombus boscii* and *Lepidorhombus whiffiagonis*).

SAMPLING DATA FOR:

HAKE

PORTUGAL

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	80	484	32492
	2	-	435	21337
	3	70	353	23470
	4	113	375	22062
	Total:	263	1647	99361

SAMPLING DATA FOR:

BLACK SCABBARD FISH

PORTUGAL

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	-	25	1582
	2	-	21	1755
	3	-	38	3174
	4	-	30	2806
	Total:	-	114	9317

SAMPLING DATA FOR:

Boops boops

PORTUGAL

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	37	28	3179
	2	-	24	1017
	3	24	16	2173
	4	25	28	1942
	Total:	86	96	8311

SAMPLING DATA FOR:

Pagellus acarne

PORTUGAL

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	18	36	2245
	2	-	51	2854
	3	15	37	2736
	4	14	56	3359
	Total:	47	180	11194

SAMPLING DATA FOR:

Spondyliosoma cantharus

PORTUGAL

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	13	16	438
	2	-	16	312
	3	15	13	543
	4	11	22	596
	Total:	29	67	1889

SAMPLING DATA FOR:

MONKFISH

PORTUGAL

(Lophius budegassa and Lophius piscatorius)

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	9	175	4008
	2	-	89	1133
	3	2	53	269
	4	1	100	733
	Total:	12	417	6143

SAMPLING DATA FOR:

MEGRIM

PORTUGAL

Lepidorhombus bosci and Lepidorhombus whiffiagonis

1992

Area	Quarter	Number of samples		Number of fish measured
		Research vessel	Market samples	
IXa	1	27	-	176
	2	-	-	-
	3	27	-	107
	4	19	-	118
	Total:	73	-	401

RUSSIA

(F. M. Troyanovsky)

In 1992, as in preceding years, the trawl-, trawl-acoustic and ichthyoplankton surveys were conducted to assess abundance and biomass of the main commercial fishes, possible recruitment of the abundant demersal fish species to commercial stocks in the Barents Sea area and adjacent waters.

Studies on effect of abiotic and biotic factors of environment upon fish distribution and behaviour have been proceeded. Population structure, dynamics of biological parameters, trophic interrelations between stocks and migrations of main commercial fishes have been studied.

Following tables include material collected in 1992.

SAMPLING DATA FOR:

COD

RUSSIA

1992

		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	18802	2362	851
	2	30452	2478	103
	3	7956	450	-
	4	90584	10401	2874
	Total:	147794	15691	3828
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	4547	613	-
	2	25738	3064	644
	3	-	-	-
	4	3337	689	191
	Total:	33622	4366	835
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	464	50	-
	2	4890	658	308
	3	15998	2053	728
	4	79913	5625	1612
	Total:	101265	8386	2648
Total in all areas:		282681	28443	7311

SAMPLING DATA FOR:

HADDOCK

RUSSIA

1992

		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	8603	809	559
	2	8734	402	256
	3	470	75	-
	4	136799	9239	2764
	Total:	154606	10525	3579

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	67	-	-
	2	1419	350	325
	3	-	-	-
	4	2600	666	441
	Total:	4086	1016	766
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	-	-	-
	2	877	135	110
	3	62	-	-
	4	17966	623	571
	Total:	18905	758	681
Total in all areas:		177597	12299	5026

SAMPLING DATA FOR:

REDFISH (*Sebastes marinus*)

RUSSIA

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	779	100	100
	2	1567	-	-
	3	-	-	-
	4	3316	454	448
	Total:	5662	554	548
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	3114	405	80
	2	6258	1313	838
	3	-	-	-
	4	9759	438	438
	Total:	19131	2156	1356
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	98	-	-
	2	10802	1644	619
	3	838	-	-
	4	26743	579	579
	Total:	38481	2223	1198
Total in all areas:		63274	4933	3102

SAMPLING DATA FOR:

GREENLAND HALIBUT

RUSSIA

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	22	6	-
	2	587	-	-
	3	-	-	-
	4	629	84	-
	Total:	1238	90	0

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	1312	434	301
	2	323	95	95
	3	-	-	-
	4	1079	152	127
	Total:	2714	681	523
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	306	50	-
	2	740	203	203
	3	307	-	-
	4	9421	700	556
	Total:	10774	953	759
Total in all areas:		14726	1724	1282

SAMPLING DATA FOR:

SAITHE

RUSSIA

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	7	-	-
	2	32	-	-
	3	109	-	-
	4	79	-	-
	Total:	227	0	0
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	1	-	-
	2	381	59	59
	3	-	-	-
	4	13	-	-
	Total:	395	59	59
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	104	-	-
	Total:	104	0	0
Total in all areas:		726	59	59

SAMPLING DATA FOR:

CATFISH

RUSSIA

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	90	30	7
	2	-	-	-
	3	26	-	-
	4	733	284	1
	Total:	849	314	8

1992

		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	11	11	-
	2	36	21	21
	3	-	-	-
	4	42	17	4
	Total:	89	49	25
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	1	1	-
	2	244	88	66
	3	97	88	88
	4	1963	754	81
	Total:	2305	931	235
Total in all areas:		3243	1294	268

SAMPLING DATA FOR:

PLAICE

RUSSIA

1992

		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	53	-	-
	2	-	-	-
	3	-	-	-
	4	6448	273	273
	Total:	6501	273	273
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	-	-	-
	Total:	0	0	0
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	-	-	-
	Total:	0	0	0
Total in all areas:		6501	273	273

SAMPLING DATA FOR:

LONG ROUGH DAB

RUSSIA

1992

		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
I	1	1256	88	88
	2	-	-	-
	3	-	-	-
	4	17755	463	213
	Total:	19011	551	301

1992		Number of fish		
Area	Quarter	Measured	Feeding analysis	Aged
IIa	1	19	-	-
	2	219	65	65
	3	-	-	-
	4	691	12	12
	Total:	929	77	77
Area	Quarter	Measured	Feeding analysis	Aged
IIb	1	-	-	-
	2	901	246	246
	3	619	275	200
	4	11914	547	397
	Total:	13434	1068	843
Total in all areas:		33374	1696	1221

SPAIN

(F. J. Pereiro)

In 1992 two groundfish surveys have been conducted, one covering the continental shelf of Galicia and Cantabrian Sea (Divisions VIIIc and IXa North) on board of *R/V Cornide de Saavedra* in September-October to estimate recruitment indices of hake, as well as indices of abundance and spatial distribution patterns of the main demersal species. In addition 5 945 stomachs from 55 species belonging to the demersal community were analyzed at sea. The other groundfish survey conducted on board *R/V F. de P. Navarro* covered the Gulf of Cadiz (Division IXa South) and the aim was to estimate abundance indices and distribution patterns of the most important species.

Following the recommendation of the Study Group on the Coordination of Bottom Trawl Surveys in Subareas VI, VII and VIII and Division IXa, a comparison of fishing gear performance between Spain (*R/V Cornide de Saavedra*-Baka trawl) and France (*R/V Thalassa*-GOV trawl) was conducted (19 hauls).

The results of the sampling programme on board of the Spanish commercial fleet fishing for cod were as follows:

SAMPLING DATA FOR:

COD

SPAIN

1992

Commercial vessel samples				
Area	Quarter	N samples	N measured	N aged
I	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	6	1739	-
	Total:	6	1739	0
Area	Quarter	N samples	N measured	N aged
IIb	1	-	-	-
	2	12	3820	214
	3	10	2353	542
	4	35	9793	680
	Total:	57	15966	1436
Total number		63	17705	1436

Number of samples, fish measured and aged on board of research vessels and in the market sampling programme are given in the following tables:

SAMPLING DATA FOR:

HAKE

SPAIN

1992

		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
VI	1	-	3	203	-
	2	-	7	1097	-
	3	-	1	91	-
	4	-	5	441	-
	Total:	0	16	1832	0
Area	Quarter	Research	Market	Measured	Aged
VII	1	-	28	6545	-
	2	-	30	7757	-
	3	-	29	6079	-
	4	-	27	6125	-
	Total:	0	114	26506	0
Area	Quarter	Research	Market	Measured	Aged
VIIIa, b	1	-	95	14374	-
	2	-	82	13048	-
	3	-	73	14547	-
	4	6	77	11735	-
	Total:	6	327	53704	0
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	77	6669	-
	2	-	82	6675	-
	3	37	61	7850	-
	4	61	84	6678	-
	Total:	98	304	27872	0

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
IXa	1	-	41	3973	-
	2	-	31	3348	-
	3	40	38	6879	-
	4	-	35	2906	-
	Total:	40	145	17106	0
Total in all areas		144	906	127020	0

SAMPLING DATA FOR:

Lepidorhombus whiffiagonis

SPAIN

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
VI	1	-	8	543	-
	2	-	8	660	-
	3	-	4	244	-
	4	-	6	506	-
	Total:	0	26	1953	0
Area	Quarter	Research	Market	Measured	Aged
VII	1	-	24	3714	338
	2	-	29	4943	355
	3	-	31	4911	70
	4	-	24	3590	201
	Total:	0	108	17158	964
Area	Quarter	Research	Market	Measured	Aged
VIIIa, b	1	-	43	3258	61
	2	-	29	2156	243
	3	-	32	2211	256
	4	5	30	1663	90
	Total:	5	134	9288	650
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	32	1949	-
	2	-	34	2001	-
	3	27	34	2232	125
	4	56	36	4479	512
	Total:	83	136	10661	637
Area	Quarter	Research	Market	Measured	Aged
IXa	1	-	3	77	72
	2	-	2	178	175
	3	-	3	198	192
	4	-	2	191	185
	Total:	0	10	644	624
Total in all areas		88	414	39704	2875

SAMPLING DATA FOR:

Lepidorhombus boscii

SPAIN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
VI	1	-	5	110	-
	2	-	3	37	-
	3	-	4	117	-
	4	-	4	103	-
	Total:	0	16	367	0
Area	Quarter	Research	Market	Measured	Aged
VII	1	-	22	1203	-
	2	-	23	619	46
	3	-	23	1104	41
	4	-	18	1066	24
	Total:	0	86	3992	111
Area	Quarter	Research	Market	Measured	Aged
VIIIa, b	1	-	33	371	35
	2	-	23	506	78
	3	-	28	497	134
	4	5	29	822	145
	Total:	5	113	2196	392
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	32	1419	-
	2	-	34	1821	-
	3	39	34	3551	472
	4	61	36	6773	117
	Total:	100	136	13564	589
Area	Quarter	Research	Market	Measured	Aged
IXa	1	-	13	1383	57
	2	-	12	1128	29
	3	20	12	1875	267
	4	-	8	795	69
	Total:	20	45	5181	422
Total in all areas		125	396	25300	1514

SAMPLING DATA FOR:

Lophius budegassa

SPAIN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
VI	1	-	2	36	-
	2	-	6	352	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	8	388	0
Area	Quarter	Research	Market	Measured	Aged
VII	1	-	19	1420	-
	2	-	27	1777	-
	3	-	26	1923	-
	4	-	19	1134	-
	Total:	0	91	6254	0

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
VIIIa, b	1	-	51	2076	-
	2	-	32	1887	-
	3	-	38	1663	-
	4	4	39	2147	-
	Total:	4	160	7773	0
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	34	1131	-
	2	-	38	1572	-
	3	14	35	770	-
	4	28	43	556	-
	Total:	42	150	4029	0
Area	Quarter	Research	Market	Measured	Aged
IXa	1	-	4	148	-
	2	-	5	433	-
	3	-	3	91	-
	4	9	5	207	-
	Total:	9	17	879	0
Total in all areas		55	426	19323	0

SAMPLING DATA FOR:

Lophius piscatorius

SPAIN

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
VI	1	-	5	326	-
	2	-	9	660	-
	3	-	4	262	-
	4	-	6	496	-
	Total:	0	24	1744	0
Area	Quarter	Research	Market	Measured	Aged
VII	1	-	19	1171	-
	2	-	28	1366	-
	3	-	26	1613	-
	4	-	20	1287	-
	Total:	0	93	5437	0
Area	Quarter	Research	Market	Measured	Aged
VIIIa, b	1	-	48	1794	-
	2	-	32	1283	-
	3	-	38	1328	-
	4	4	40	1606	-
	Total:	4	158	6011	0
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	34	965	-
	2	-	38	1410	-
	3	17	34	1087	-
	4	49	44	1114	273
	Total:	66	150	4576	273

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
IXa	1	-	2	10	-
	2	-	5	66	-
	3	-	3	37	-
	4	-	3	18	-
	Total:	0	13	131	0
Total in all areas		70	438	17899	273

SAMPLING DATA FOR:

Pagellus bogaraveo

SPAIN

1992		Number of samples		Number of fish	
Area	Quarter	Research	Market	Measured	Aged
VIIIc	1	-	20	507	-
	2	-	24	798	-
	3	-	13	245	-
	4	-	13	183	-
	Total:	0	70	1733	0

SWEDEN

(P.-O. Larsson)

An IBTS ("Young Fish Survey") was performed in February in Division IIIa and the eastern North Sea. Bottom trawl surveys were also made in Division IIIa in the third quarter.

In May coordinated surveys with a Danish, a Norwegian and a Swedish vessel were performed in Division IIIa and eastern North Sea in a project partly financed by the Nordic Council of Ministers. Fishing was done with a MIK trawl and the aim was to study the distribution of cod larvae and fry. Age (days) and length distribution in relation to hydrographic features were used in an attempt to verify the hypothesis that the Skagerrak cod stock is recruited mainly from spawning grounds in northeastern North Sea. The results obtained so far indicate that this is the case.

The research project on flatfish recruitment, started in 1991, was continued with sampling of 0-group plaice and flounder in shallow nursery areas.

A few hundred 0-group cod (12 - 17 cm), resulting from a small hatchery-rearing experiment with Skagerrak coastal cod, were tagged and released in a fjord close to Lysekil.

Numbers of fish sampled for size and age are given in the following tables:

SAMPLING DATA FOR:

COD

SWEDEN

1992

Area	Quarter	Number of samples		Number of fish			
		Research	Market	Measured		Aged	
				Research	Market	Research	Market
IIIa	1	47	-	3657	-	939	-
	2	-	10	-	2328	-	793
	3	45	4	4086	1630	858	817
	4	-	8	-	1479	-	598
	Total:	92	22	7743	5437	1797	2208

SAMPLING DATA FOR:

HADDOCK

SWEDEN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
IIIa	1	47	-	1529	259
	2	-	-	-	-
	3	45	-	2674	155
	4	-	-	-	-
	Total:	92	0	4203	414

SAMPLING DATA FOR:

WHITING

SWEDEN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
IIIa	1	47	-	4231	433
	2	-	-	-	-
	3	45	-	5366	414
	4	-	-	-	-
	Total:	92	0	9597	847

SAMPLING DATA FOR:

NORWAY POUT

SWEDEN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
IIIa	1	47	-	1536	162
	2	-	-	-	-
	3	45	-	3358	63
	4	-	-	-	-
	Total:	92	0	4894	225

SAMPLING DATA FOR:

PLAICE

SWEDEN

1992

Area	Quarter	Number of samples		Number of fish	
		Research	Market	Measured	Aged
IIIa	1	47	-	852	576
	2	-	-	-	-
	3	45	-	755	421
	4	-	-	-	-
	Total:	92	0	1607	997

UNITED KINGDOM (England and Wales)

(C. T. Macer)

The following research vessel cruises took place in 1992:

R/V CIROLANA surveys in 1992

Survey no.	Period	Locality	Activities
3	19/2-10/3	North Sea	Stomach content examination Fishing ground comparisons
4	18/3-15/4	South Western Approaches Western Channel	PHH trawl survey
9	14/8-14/9	North Sea	GOV trawl survey Macrobenthos survey Antroprogenic debris survey
11	20/10-23/11	North Sea	GOV trawl survey Macrobenthos survey Antroprogenic debris survey

R/V CORYSTES surveys in 1992

Survey no.	Period	Locality	Activities
7	4/6-19/6	North Sea	0-group gastric evacuation study
9	29/7-13/8	Southern Bight, Channel	Beam trawl survey
10b	28/8-21/9	Irish Sea, Bristol Channel	Beam trawl survey Pre-recruit survey
13	10/11-3/12	Western Channel	Beam trawl pre-recruit survey

GOV = Grande Ouverture Verticale

PHH = Portuguese High Headline

The market sampling programme was continued in 1992. Details of number of fish sampled, measured and aged are presented in the tables.

SAMPLING DATA FOR:

ANGLER FISH

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	2	218	-	-
	2	1	53	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	3	271	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIId	1	1	119	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	119	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	10	987	-	-
	2	7	1057	-	-
	3	14	1235	-	-
	4	16	1046	-	-
	Total:	47	4325	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIIf	1	3	477	-	-
	2	4	212	-	-
	3	1	52	-	-
	4	3	435	-	-
	Total:	11	1176	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	1	124	-	-
	2	3	221	-	-
	3	1	147	-	-
	4	1	150	-	-
	Total:	6	642	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	5	704	-	-
	2	5	912	-	-
	3	4	635	-	-
	4	2	184	-	-
	Total:	16	2435	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	1	68	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	68	0	0

SAMPLING DATA FOR:

BASS

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IVc	1	2	2	1	-
	2	13	46	27	-
	3	23	257	56	-
	4	12	31	18	-
	Total:	50	336	102	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	2	13	-	-
	2	5	56	9	-
	3	13	341	8	-
	4	4	59	-	-
	Total:	24	469	17	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIId	1	-	-	1	-
	2	9	91	11	-
	3	23	1164	16	-
	4	4	26	7	-
	Total:	36	1281	35	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	9	307	98	-
	2	8	28	25	-
	3	13	79	70	-
	4	11	263	53	2
	Total:	41	677	246	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIIf	1	-	-	-	-
	2	3	11	-	-
	3	2	2	-	-
	4	-	-	-	-
	Total:	5	13	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	-	-	-	-
	2	2	28	-	-
	3	1	99	-	-
	4	-	-	-	-
	Total:	3	127	0	0

SAMPLING DATA FOR:

COD

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IIa	1	6	784	221	-
	2	2	358	92	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	8	1142	313	0

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IIb	1	-	-	-	-
	2	3	448	82	-
	3	1	131	88	-
	4	-	-	-	-
	Total:	4	579	170	0
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	2	383	52	214
	2	15	1493	192	-
	3	5	507	56	334
	4	3	361	24	339
	Total:	25	2744	324	887
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	120	16720	1429	259
	2	150	21057	1483	-
	3	126	17449	1402	362
	4	107	16990	1318	268
	Total:	503	72216	5632	889
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	24	1541	265	6
	2	20	1623	329	-
	3	15	1066	162	8
	4	25	2508	318	82
	Total:	84	6738	1074	96
Area	Quarter	N samples	N measured	N aged	N aged
VIa	1	2	357	-	-
	2	1	180	35	-
	3	-	-	-	-
	4	2	400	44	-
	Total:	5	937	79	0
Area	Quarter	N samples	N measured	N aged	N aged
VIb	1	2	218	37	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	2	218	37	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	12	1681	171	-
	2	12	1702	152	-
	3	14	1753	165	38
	4	19	2424	103	-
	Total:	57	7560	591	38
Area	Quarter	N samples	N measured	N aged	N aged
VIId	1	9	252	56	-
	2	-	-	-	-
	3	-	-	-	-
	4	3	98	58	10
	Total:	12	350	114	10

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	11	611	154	-
	2	8	554	99	-
	3	5	162	112	-
	4	8	467	53	2
	Total:	32	1794	418	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIIf	1	9	849	65	6
	2	3	338	33	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	12	1187	98	6
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	3	290	-	84
	2	4	255	-	-
	3	1	61	-	-
	4	1	105	-	-
	Total:	9	711	0	84
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	1	71	-	13
	2	2	105	-	-
	3	1	55	-	-
	4	2	195	24	-
	Total:	6	426	24	13
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	2	265	-	7
	2	1	84	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	3	349	0	7

SAMPLING DATA FOR:

SPURDOG

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	1	35	-	-
	2	-	-	-	-
	3	1	42	-	-
	4	-	-	-	-
	Total:	2	77	0	0
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	7	121	-	-
	2	13	802	-	-
	3	14	667	-	-
	4	7	236	-	-
	Total:	41	1826	0	0

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	10	469	-	-
	2	8	558	-	-
	3	3	24	-	-
	4	9	416	-	-
	Total:	30	1467	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIa	1	-	-	-	-
	2	-	-	-	-
	3	1	142	-	-
	4	-	-	-	-
	Total:	1	142	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	-	-	-	-
	2	4	307	-	-
	3	9	807	-	-
	4	2	219	-	-
	Total:	15	1333	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	1	92	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	92	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	-	-	-	-
	2	1	7	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	7	0	0

SAMPLING DATA FOR:

HADDOCK

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IIa	1	6	963	212	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	6	963	212	0
Area	Quarter	N samples	N measured	N aged	N aged
IIb	1	-	-	-	-
	2	2	393	78	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	2	393	78	0

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	7	1255	90	280
	2	7	1083	99	-
	3	2	379	36	823
	4	2	408	32	726
	Total:	18	3125	257	1829
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	73	9176	714	147
	2	94	12786	787	-
	3	85	11184	803	491
	4	60	9600	720	422
	Total:	312	42746	3024	1060
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	1	47	5	-
	2	1	18	7	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	2	65	12	0
Area	Quarter	N samples	N measured	N aged	N aged
VIb	1	1	305	15	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	305	15	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	1	71	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	71	0	0

SAMPLING DATA FOR:

HERRING

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	-	-	-	247
	2	-	-	-	-
	3	-	-	-	481
	4	-	-	-	-
	Total:	0	0	0	728
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	262
	2	-	-	-	-
	3	-	-	-	538
	4	-	-	-	-
	Total:	0	0	0	800

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	8	1788	404	5
	2	-	-	-	-
	3	-	-	-	62
	4	3	606	-	-
	Total:	11	2394	404	67
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	-	-	-	100
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	100

SAMPLING DATA FOR:

HAKE

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIa	1	1	258	-	-
	2	1	226	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	2	484	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VII	1	-	-	-	69
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	69
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	6	1045	-	-
	2	3	648	-	-
	3	1	91	-	-
	4	-	-	-	-
	Total:	10	1784	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	13	1243	-	-
	2	8	917	-	-
	3	8	633	-	-
	4	4	351	-	-
	Total:	33	3144	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIIf	1	3	394	-	-
	2	5	295	-	-
	3	2	193	-	-
	4	3	476	-	-
	Total:	13	1358	0	0

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	4	346	-	-
	2	2	381	-	-
	3	2	241	-	-
	4	1	91	-	-
	Total:	9	1059	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIIh	1	1	36	-	-
	2	5	585	-	-
	3	4	444	-	-
	4	-	-	-	-
	Total:	10	1065	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	2	309	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	1	131	-	-
	Total:	3	440	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIII	1	-	-	-	70
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	70

SAMPLING DATA FOR:

HORSE MACKEREL

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	1	120	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	120	0	0

SAMPLING DATA FOR:

LEMON SOLE

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	51
	4	-	-	-	-
	Total:	0	0	0	51

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	10	1593	167	20
	2	11	1745	141	-
	3	11	1504	121	-
	4	8	903	110	18
	Total:	40	5745	539	38
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	1	240	-	9
	2	1	152	-	-
	3	1	134	-	17
	4	1	166	-	-
	Total:	4	692	0	26
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	-	-	-	78
	2	-	-	-	-
	3	-	-	-	-
	4	1	73	-	-
	Total:	1	73	0	78
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	2	290	-	-
	2	-	-	-	-
	3	1	109	-	-
	4	2	254	-	2
	Total:	5	653	0	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	14
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	14
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	7
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	7

SAMPLING DATA FOR:

MACKEREL

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	98
	4	-	-	-	-
	Total:	0	0	0	98

1992

		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	233
	4	-	-	-	-
	Total:	0	0	0	233
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	113
	4	-	-	-	-
	Total:	0	0	0	113
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	10	1656	-	-
	2	3	882	-	-
	3	1	181	-	-
	4	9	1366	-	-
	Total:	23	4085	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	1	173	-	83
	Total:	1	173	0	83
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	-	-	-	114
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	114
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	-	-	-	135
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	135
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	436
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	436
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	166
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	166

SAMPLING DATA FOR:

MEGRIM

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	31	-
	4	-	-	-	-
	Total:	0	0	31	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	-	-	-	-
	2	3	431	101	-
	3	3	450	-	-
	4	-	-	23	27
	Total:	6	881	124	27
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	3	354	132	-
	2	-	-	-	-
	3	1	170	24	-
	4	2	214	-	-
	Total:	6	738	156	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	-	-	63	83
	2	-	-	-	-
	3	1	124	-	-
	4	2	314	-	-
	Total:	3	438	63	83
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	3	378	-	131
	2	1	152	52	-
	3	2	322	72	-
	4	2	277	97	25
	Total:	8	1129	221	156
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	398
	2	1	174	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	174	0	398
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	10
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	10

SAMPLING DATA FOR:

PILCHARD

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIe	1	6	664	-	124
	2	-	-	-	-
	3	-	-	-	-
	4	1	110	-	-
	Total:	7	774	0	124
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	88
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	88

SAMPLING DATA FOR:

PLAICE

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	13	2669	189	-
	3	2	330	24	57
	4	2	307	25	35
	Total:	17	3306	238	92
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	40	7417	614	-
	2	30	6641	480	-
	3	45	9638	728	255
	4	44	8652	656	316
	Total:	159	32348	2478	571
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	6	710	-	-
	2	1	44	-	-
	3	1	89	-	54
	4	1	58	-	39
	Total:	9	901	0	93
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	10	1609	135	-
	2	12	2304	207	-
	3	17	2280	216	449
	4	10	1375	151	-
	Total:	49	7568	709	449
Area	Quarter	N samples	N measured	N aged	N aged
VIId	1	40	4440	469	-
	2	22	2029	344	-
	3	19	1965	227	420
	4	11	1233	384	-
	Total:	92	9667	1424	420

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIe	1	18	2202	324	9
	2	16	2420	225	-
	3	16	2167	346	-
	4	14	1999	500	111
	Total:	64	8788	1395	120
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	3	526	-	2
	2	2	333	-	-
	3	1	82	96	179
	4	2	285	135	-
	Total:	8	1226	231	181
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	1	86	-	20
	2	2	604	-	-
	3	-	-	24	-
	4	1	62	5	-
	Total:	4	752	29	20
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	2	129	-	2
	2	-	-	58	-
	3	2	208	23	-
	4	-	-	52	-
	Total:	4	337	133	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	6
	2	1	85	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	85	0	6

SAMPLING DATA FOR:

SAITHE

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IVa	1	5	278	-	31
	2	3	377	-	-
	3	2	100	-	186
	4	3	379	-	190
	Total:	13	1134	0	407
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	5	172	-	-
	2	9	455	-	-
	3	8	259	-	20
	4	4	149	-	1
	Total:	26	1035	0	21

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIb	1	1	148	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	148	0	0

SAMPLING DATA FOR:

SOLE

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	32	3194	339	-
	2	18	1190	70	-
	3	20	1543	101	7
	4	20	1729	293	-
	Total:	90	7656	803	7
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	2	255	40	-
	2	22	2637	324	-
	3	27	2775	344	17
	4	8	759	173	-
	Total:	59	6426	881	17
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	15	2582	162	-
	2	15	2700	206	-
	3	11	1771	198	430
	4	8	1143	145	-
	Total:	49	8196	711	430
Area	Quarter	N samples	N measured	N aged	N aged
VIId	1	26	2811	299	-
	2	38	4342	1060	-
	3	10	1524	138	877
	4	3	867	99	-
	Total:	77	9544	1596	877
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	27	2764	342	-
	2	25	2706	211	-
	3	26	2502	318	-
	4	25	2836	404	175
	Total:	103	10808	1275	175
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	11	1968	142	-
	2	5	664	75	-
	3	1	226	72	169
	4	4	564	62	-
	Total:	21	3422	351	169

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	3	514	67	1
	2	5	966	54	-
	3	3	584	71	-
	4	3	570	72	-
	Total:	14	2634	264	1
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	6	723	-	-
	2	6	857	57	-
	3	7	1097	72	-
	4	6	570	119	4
	Total:	25	3247	248	4
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	1
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	1

SAMPLING DATA FOR:

WHITING

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	-	-	-	165
	2	-	-	-	-
	3	2	182	38	609
	4	-	-	-	825
	Total:	2	182	38	1599
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	43	4088	600	275
	2	50	4896	520	-
	3	44	3357	487	690
	4	42	4039	498	934
	Total:	179	16380	2105	1899
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	12	477	131	5
	2	11	559	180	-
	3	6	417	73	102
	4	10	908	143	145
	Total:	39	2361	527	252
Area	Quarter	N samples	N measured	N aged	N aged
VIa	1	-	-	-	-
	2	1	146	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	1	146	0	0

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	15	1773	-	-
	2	17	2107	-	-
	3	20	2161	-	94
	4	16	1577	-	-
	Total:	68	7618	0	94
Area	Quarter	N samples	N measured	N aged	N aged
VIIb	1	3	127	-	-
	2	1	31	-	-
	3	-	-	-	-
	4	2	98	-	-
	Total:	6	256	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIc	1	13	2169	-	-
	2	9	1475	-	-
	3	7	1222	-	-
	4	14	2088	-	-
	Total:	43	6954	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIId	1	2	192	-	-
	2	2	193	-	-
	3	3	302	-	-
	4	1	153	-	-
	Total:	8	840	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	1	151	-	-
	2	2	116	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	3	267	0	0
Area	Quarter	N samples	N measured	N aged	N aged
VIIf	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	-
	4	1	170	-	-
	Total:	1	170	0	0

SAMPLING DATA FOR:

MEDITERRANEAN HORSE MACKEREL

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	1
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	1

SAMPLING DATA FOR:

FOUR SPOT MEGRIM

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIh	1	-	-	-	2
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	90
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	90

SAMPLING DATA FOR:

Lophius piscatorius

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	26
	4	-	-	-	19
	Total:	0	0	0	45
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	5
	4	-	-	-	8
	Total:	0	0	0	13
Area	Quarter	N samples	N measured	N aged	N aged
VIIa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	32
	4	-	-	-	-
	Total:	0	0	0	32
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	-	-	-	4
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	17
	Total:	0	0	0	21
Area	Quarter	N samples	N measured	N aged	N aged
VIIIf	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	14
	4	-	-	-	-
	Total:	0	0	0	14

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIg	1	-	-	-	1
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	1
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	-	-	-	2
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	5
	Total:	0	0	0	7
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	3
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	3

SAMPLING DATA FOR:

Lophius budegassa

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIe	1	-	-	-	2
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	2
Area	Quarter	N samples	N measured	N aged	N aged
VIIh	1	-	-	-	2
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	3
	Total:	0	0	0	5
Area	Quarter	N samples	N measured	N aged	N aged
VIIj	1	-	-	-	5
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	5
Area	Quarter	N samples	N measured	N aged	N aged
VIIIa	1	-	-	-	2
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	2

SAMPLING DATA FOR:

SPRAT

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	97
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	97
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	247
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	247
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	-	-	-	54
	2	-	-	-	-
	3	-	-	-	-
	4	-	-	-	-
	Total:	0	0	0	54

SAMPLING DATA FOR:

BRILL

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIId	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	17
	4	-	-	-	-
	Total:	0	0	0	17

SAMPLING DATA FOR:

DAB

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples			Research vessel
		N samples	N measured	N aged	N aged
VIIId	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	253
	4	-	-	-	-
	Total:	0	0	0	253

SAMPLING DATA FOR:

FOUR BEARDED ROCKLING

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples		Research vessel	
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	38
	4	-	-	-	34
	Total:	0	0	0	72
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	24
	4	-	-	-	10
	Total:	0	0	0	34

SAMPLING DATA FOR:

GREY GURNARD

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples		Research vessel	
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	73
	4	-	-	-	57
	Total:	0	0	0	130
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	284
	4	-	-	-	212
	Total:	0	0	0	496
Area	Quarter	N samples	N measured	N aged	N aged
IVc	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	9
	4	-	-	-	-
	Total:	0	0	0	9

SAMPLING DATA FOR:

NORWAY POUT

UNITED KINGDOM (England and Wales)

1992

Area	Quarter	Market samples		Research vessel	
		N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	244
	4	-	-	-	246
	Total:	0	0	0	490

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVb	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	93
	4	-	-	-	181
	Total:	0	0	0	274

SAMPLING DATA FOR:

TURBOT

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
VIIId	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	10
	4	-	-	-	-
	Total:	0	0	0	10

SAMPLING DATA FOR:

TUSK

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	9
	4	-	-	-	13
	Total:	0	0	0	22

SAMPLING DATA FOR:

POLLACK

UNITED KINGDOM (England and Wales)

1992		Market samples			Research vessel
Area	Quarter	N samples	N measured	N aged	N aged
IVa	1	-	-	-	-
	2	-	-	-	-
	3	-	-	-	3
	4	-	-	-	3
	Total:	0	0	0	6

UNITED KINGDOM (Scotland)

(P. A. Kunzlik)

< No report received >

U. S. A.

(F. Serchuk and B. Rothschild)

The U.S.A. had no fisheries and no research vessel activity on demersal fish in the ICES area in 1992. Activities in the Northwest Atlantic have been reported to NAFO.

