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Market Sampling of Landings of Commercial fish Species in The Netherlands in 2003

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Summary

The biological market-sampling programme for marine fish species provides, together with the information from the assessment surveys by research vessels, the information which is essential for relating changes in the fish stocks to changes in the fishery. The market sampling program in the Netherlands comprises the collection of fish samples from commercial catches, the analysis of these samples (estimation of length, weight, sex, sexual maturity and age), and the conversion of the national catches in tonnes to age compositions in numbers together with the additional information on mean weight at age, mean length at age, etc. In a later stage, this information by country is combined to figures representative for the whole fish stock. These combined international data, collected over many years, form the basis for the analysis of population dynamics and for providing biological advice on fishery management.

The age of a fish is determined from the otoliths (ear bones) taken out of the head. Because of seasonal changes in growth (due to food availability, temperature, spawning) ring structures are formed in the otolith similar to the ring structures on transverse sections of a tree. Age determination is important because from the annual age compositions, the annual increase in length and weight can be traced. This allows a quantification of important processes such as growth, recruitment of new age groups, mortality etc.

This report contains information on the biological sampling from the market sampling program: which species are sampled, how they were caught, when and where the samples are taken (date and position), how many fish have been measured, how many fish have been aged, etc. The report gives an overview of all the biological sampling activities in 2003 by RIVO on the landings of the commercial important species of herring, mackerel, horse mackerel, blue whiting, greater argentine, sole, plaice, turbot, brill, dab, lemon sole, cod, whiting, Norway lobster and four different species of rays from all ICES areas. This biological sampling took place on landings by both the Dutch fleet as well as foreign fleets landing in the Netherlands.

Index for Tables and Figures

Detailed information on sampling in **2003** is described in this report in tables and figures. The overview below show the table and figure numbers corresponding to the species described.

2003	Market Sampling	
	Tables	Figures
<i>General tables & figures</i>		
Market size categories	1	
Map of ICES Divisions		1
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Sole	2	2
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Turbot	4	4
Brill	5	5
Dab	6	6
Lemon Sole	7	7
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1. Introduction

In the framework of the biological monitoring of the stocks of commercially important marine fish species, which are exploited by fishing fleets and are subject to EU management regulations, annual routine sampling programs of the landings in the Netherlands have been carried out since 1955 for pelagic species and since 1957 for demersal species. The information collected in these sampling programs concerns annual and quarterly age-length keys (ALK's), length distributions, weight at age and maturity at age. Combined with national statistics on nominal landings by size category as used in the fish market, age distributions of the landings, at various levels of aggregation, can be constructed. These are used in assessments of the state of the stocks by the International Council for Exploration of the Sea (ICES). The biological market sampling program has been financially supported by the EU from 1995 to 2002 by various contracts. From 2002 onwards the Dutch market sampling is part of the data collection regulation under EU Regulation 1639/2001. The research carried out in 2003 represents part of an international framework of national market sampling programs, which form the basis for fish stock assessment and management advice. The data obtained are essential to evaluate the probable effects of the various measures aiming at the conservation and management of fishery resources (TAC's and quota) as laid down in the Common Fishery Policy.

The details of the planning of the 2003 market sampling is given in The Netherlands National Programme for Collection of Fisheries Data in 2003 and carried out in "Programma Wettelijke en Dientsverlenende Taken Visserijonderzoek 2002-2005 (WERKPLAN 2003, van Beek 2003). This report presents the actual biological sampling of the landings in 2003, as carried out following the workplan. This report does not include an evaluation of the sampling, as this is included in the "Technical Report of Activity 2003 – The Netherlands" (Anon., 2004). Sampling in previous years has been presented several RIVO reports, which are listed in section 5. A brief description of the sampling procedures presently applied in the Netherlands is given. The market sampling program in 2003 comprised the following species: sole, plaice, turbot, brill, dab, lemon sole, cod, whiting, herring, mackerel, horse mackerel, blue whiting, greater argentine, blond ray, spotted ray, starry ray, thornback ray and Norway lobster.

In earlier reports the additional samples taken during research vessel surveys were presented as well. From 2003 onwards, the results of this sampling are no longer included in this report. An overview of samples taken during surveys can be obtained from the RIVO FRISBE-database.

Details of the biological sampling for the 2003 market-sampling program as well as the survey sampling are presented in tables and figures. The [Index of Tables and Figures](#) by species is given after the Table of Contents in the beginning of this report. The table and figure numbers are kept identical by specie for fast table and figure searching. The a, b, c and d after the table or figure numbers refer to respectively the 1st, 2nd, 3rd and 4th quarter. The e,f,g,h refer to separate length measurements by quarter by species if relevant.

2. Sampling procedures

2.1 Plaice, Sole, Turbot, Brill, Lemon sole and Dab

Almost all of the plaice, sole, turbot, brill, lemon sole and dab landed in the Netherlands are caught by beam trawlers, which are fishing almost exclusively in the North Sea. Table 1 shows the market size categories for these species together with the number of fish taken in 2003 by RIVO per size category for an age and length sample.

Representative sampling by size category, by harbour and by quarter

Representative sampling by size category, by harbour by quarter is carried out for plaice, sole, turbot and brill. Representative sampling implies that by size category the length distribution of the sample corresponds to that of the landings of that size category. Each fish sample consists of a certain number of fish per size category from one vessel, which is taken in a fish auction (see Table 1). There are three levels of stratification: by harbour, quarter and market size category. Sampling is restricted to 4 major landing ports (Den Helder, Stellendam, Urk and IJmuiden), which account for about 80% of the national landings. The number of samples is taken approximately in proportion to the expected landings in these ports and taken account of differences in effort of various fleet components in different fishing areas. The sampling levels are based on both the Dutch as well as the foreign landings in the Netherlands.

Sampling during spawning time (plaice: first quarter; sole, turbot and brill: second quarter) is intensified to obtain detailed biological parameters (maturity data and weight at age of the stock).

Plaice landings are marketed in 4 and sole in 5 size categories. Samples consist of 15 (plaice) or 10 (sole) fish in each size category bought from the vessel selected.

Turbot landings are marketed in 6 and brill in 3 size categories. Samples consist of 10 (turbot) or 15 (brill) fish in each size category bought from the vessel selected.

In addition, the total landings of the vessel, the amount landed in each size category, gear, fishing position, vessel name and vessel characteristics are recorded. No separate length samples are taken. The fish are measured and weighed. The ovaries are weighed during the whole year in the laboratory. Sex and stage of maturity are recorded and both otoliths are removed for age determination. The age of the fish is determined by counting the number of rings on the slides of the sectioned otoliths.

Details on the planning of the sampling and the actual number of samples taken are reported in "Technical Report of Activity 2003 – The Netherlands" (Anon., 2004).

Representative sampling by size category and by quarter

Representative sampling by size category and by quarter is carried out for lemon sole. There are two levels of stratification: by quarter and market size category. Sampling is carried out in Urk and IJmuiden.

Non-representative sampling by quarter

Non-representative sampling by quarter is carried out for dab. This implies that each quarter both length and age samples are collected. Sampling is carried out in IJmuiden and Urk.

2.2 Cod and Whiting

Cod and whiting are caught by beam trawlers, pair trawlers and otter trawlers in the North Sea. The latter two fleets have almost disappeared over the last ten years. Roundfish is sampled in the auctions of IJmuiden and Den Oever and possibly in Urk and Stellendam. The distribution of the age and length sampling by quarter should reflect the landings by quarter. Table 1 shows the market size categories for cod and whiting together with the number of fish taken in 2003 by RIVO per size category per age or length sample.

Cod landings are sorted in 6 market categories. Otolith samples and length measurements are taken in the auction. An age sample from an individual vessel consists of approximately 50 fish (1 otolith per fish) and each length sample consists of at least 50 fish. Age reading is carried out on sectioned otoliths mounted on slides.

Whiting landings are usually sold unsorted. Length measurements are collected in the auction. The age samples are bought and processed in the laboratory. Each sample consists of 50 fish and both otoliths are collected. Age reading is carried out on sectioned otoliths mounted on slides.

Prior to the assessment working group meetings, age-length-keys are prepared for each quarter. Usually also samples collected during surveys (IBTS) are included in the keys. Based on the samples, the quarterly length composition per market category is calculated. Information from a number of fish auctions on the landings per market size category is used to raise the quarterly landings by market category. The age-length keys are then used to derive the quarterly numbers and weights at age.

2.3 Herring, Mackerel, Horse Mackerel, Blue Whiting and Greater Argentine

The Dutch pelagic fleet consists of large freezer trawlers and pair trawlers, all using a pelagic trawl. In addition, a number of freezer trawlers and pair trawlers fishing under German, English and French flags land their fish mainly in the Netherlands (IJmuiden, Scheveningen or Vlissingen). The market sampling intensity has taken into account the landings of these 'foreign' vessels in the Netherlands. Biological samples of pelagic fish (horse mackerel, mackerel, herring, blue whiting and greater argentine) are taken from catches of the commercial fleet landing in the Netherlands. There are no size categories for the fish landed by the pelagic trawlers.

On board of a number of selected commercial vessels, crewmembers, trained for their task by RIVO staff, are taking unsorted fish samples (frozen blocks of 20-23 kg) from the catches according to instructions obtained from RIVO. These vessels are also supplying information on all hauls (dates, positions, hours fishing, species compositions, etc.). The ships collect samples only from medium to large catches. The sampling scheme is that at least one or two samples per week per fish species per ICES Division or Subdivision are taken. This way of sampling has the advantage that the distribution of the collected samples represents roughly the distribution of the fishery by the pelagic fleet.

The frozen samples are collected immediately after arrival of the vessels in a Dutch port. The samples are weighted and all fish are sorted into cm-groups in the laboratory. A sub-sample of 25 fish, representative for the length distribution in the sample is taken for further biological measurements such as age, weight, sex and maturity in such a way that the length frequency distribution in the sub-sample is representative for the length distribution of the total catch.

2.4 Rays

From 2001 onwards RIVO included the length sampling of rays from commercial landings. These species include blond ray, cuckoo ray, spotted ray, starry ray and thornback ray.

Rays are caught by beam trawlers, pair trawlers and otter trawlers in the North Sea. The latter two fleets have almost disappeared over the last ten years. Rays are sampled in the auctions of IJmuiden, Urk and Stellendam. Table 1 shows the market size categories for rays together with the number of fish taken in 2003 by RIVO per size category for a length sample. Rays are sorted in 4 market categories. Length measurements are taken in the auction by species. The weight by size category by species is estimated.

2.5 Norway lobster

From 2002 onwards RIVO included the length sampling of Norway lobster from commercial landings in its sampling programme. Norway lobster are mainly caught by twin trawls (multi-rig otter trawls) in the North Sea and are sampled in the auction in Den Oever. Table 1 shows the market size categories together with the number of Norway lobster to be taken in 2003 by RIVO per size category for a length sample. Next to the 4 market categories for whole lobsters, there is an extra category for tails. Length measurements are collected in the auction or length samples are bought and processed at the laboratory. Of each size category the carapace length of 100 Norway lobsters should be measured. Of the tails the width of the 5th abdominal segment has to be measured. Both of whole Norway lobster, as well of the tails, information on sex, egg-carrying and ex-egg-carrying is collected

3. Data processing and data usage

All data collected in 2003 and in previous years are stored in a computerized database. When the biological data are entered in the database they are checked for validity (is entered weight acceptable for length of the fish, is the age acceptable for the length of the fish, etc.). Before the meetings of the ICES assessment working groups the Dutch catches in tonnes by area of the relevant commercial species are converted to quarterly / monthly catches in numbers at age by area. The corresponding mean weights at age, the mean length at age, etc. are calculated.

The age and length samples will be used to construct age-length-keys (ALK's) by which a representative catch in tonnes can be converted into numbers by age group. Such ALK's can be constructed on a monthly, quarterly or yearly basis by (sub) area or areas combined and by market size category. The required level of stratification will be specified by the relevant ICES assessment Working Groups and differ by stock and also require desegregated information on the landing statistics by market size category of the sampling year. This information is not available at the time of production of this report and is therefore not included.

This report presents the actual biological sampling of the landings in 2003, but it does not include an evaluation of the sampling, as this is included in the "Technical Report of Activity 2003 – The Netherlands" (Anon., 2004).

4. Other data

4.1 Age samples from Dutch research vessel surveys in 2003

During Dutch Research Vessel Surveys biological samples are taken from catches of various species to collect information on age, length and maturity. During these surveys (International Bottom Trawl Surveys (IBTS-1 and IBTS-3), Herring Echo Survey (Echo), North Sea Mackerel Egg Survey (Egg), Demersal Fish Survey (DFS), Beam Trawl Survey (BTS) and Sole Net Survey (SNS)) length distributions are collected. Age length-keys are used to convert these length distributions to numbers-at-age. In most cases these samples are stratified by rectangle or sampling area. In general a fixed number of otoliths are collected for each cm-group in each stratum.

Age samples collected from research vessel surveys are not used for the calculation of the catch in numbers at age based on the Dutch landings with the possible exception of cod and whiting. Since 2003, details of the biological sampling during research vessel surveys are no longer describes in this report.

4.2 Discard samples taken on commercial vessels in 2003

In 2003 discard sampling was carried on board of beam trawlers and freezer trawlers in all quarters. The [discard sampling in 2003](#) is reported in Van Keeken, 2004. Since 2003, details of the biological sampling discard surveys are no longer describes in this report.

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Tables

Table 1 Market size categories as applied in Dutch auctions and the number of fish taken in 2003 by RIVO per size category for an age and length sample

Species	Market size category	From	To (not inclusive)	Nr of fish in one AGE sample	Nr of fish in one LENGTH sample
Sole	1	38 cm	and larger	10	-
Sole	2	33 cm	38 cm	10	-
Sole	3	30 cm	33 cm	10	-
Sole	4	27 cm	30 cm	10	-
Sole	5	24 cm	27 cm	10	-
Plaice	1	41 cm	and larger	15	-
Plaice	2	35 cm	41 cm	15	-
Plaice	3	31 cm	35 cm	15	-
Plaice	4	27 cm	31 cm	15	-
Turbot	1+	6 kg	and more	□	-
Turbot	1	4 kg	6 kg	10	-
Turbot	2	3 kg	4 kg	10	-
Turbot	3	2 kg	3 kg	10	-
Turbot	4	1 kg	2 kg	10	-
Turbot	5	0,5 kg	1 kg	10	-
Turbot	6	25 cm	0,5 kg	□	-
Brill	1+	2 kg	and more	□	-
Brill	1	40 cm (1 kg)	and larger (2 kg)	15	-
Brill	2	30 cm (0,4 kg)	40cm (1 kg)	15	-
Brill	3	25 cm	30 cm (0,4 kg)	15	-
Lemon sole	1	37 cm	and larger	10	-
Lemon sole	2	31 cm	37 cm	10	-
Lemon sole	3	25 cm	31 cm	10	-
Dab	1	30 cm	and larger	25	25
Dab	2	23 cm	30 cm	□	25
Whiting	1	40 cm	and larger	□	□
Whiting	2	36 cm	40 cm	□	□
Whiting	3	32 cm	36 cm	50 #	50 #
Whiting	4	27 cm	32 cm	□	□
Cod	1	88 cm	and larger	10	10
Cod	2	72 cm	88 cm	10	10
Cod	3	55 cm	72 cm	10	10
Cod	4	46 cm	55 cm	10	10
Cod	5 @	35 cm	46 cm	10	10
Norway lobster	1+	10 / kg	and less	-	□
Norway lobster	1	11 / kg	20 / kg	-	100
Norway lobster	2	21 / kg	30 / kg	-	100
Norway lobster	3	31 / kg	40 / kg	-	100
Norway lobster	4	41 / kg	and more	-	100
Norway lobster	5	only tails		-	100
Ray (Raja spp)	1	5 kg	and more	-	30
Ray (Raja spp)	2	3 kg	5 kg	-	30
Ray (Raja spp)	3	1 kg	3 kg	-	30
Ray (Raja spp)	4	0,3 kg	1 kg	-	30

□ Combined with the lower size category

□ Combined with the higher size category

@ Size category 5 can be split in two categories 5 and 6

Whiting are usually sold unsorted

Table 1: Overview of sampling information
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Type	species	sample type	area	Q	number of samples	Number measured	Number aged
Commercial	Blue whiting	age/length	IIA	2	1	98	25
			VB	2	8	1798	200
			VIA	2	10	1747	250
			VIB	2	28	4137	700
			VIIB	3	1	627	25
			VIIC	1	5	1264	125
			VIIIB	3	1	304	25
			VIIJ	2	2	569	50
					-----	-----	-----
					56	10544	1400
					=====	=====	=====
	Brill	age/length	IVB	1	4	183	183
				2	11	456	456
				3	6	200	200
4				4	181	181	
IVC			1	4	187	187	
			2	9	404	404	
			3	4	173	173	
			4	6	261	261	
					-----	-----	-----
					48	2045	2045
		=====	=====	=====			
Cod	age	IVA	2	1	60	60	
			1	3	159	159	
			2	1	51	51	
			3	3	155	155	
		IVC	4	4	207	207	
			1	10	532	532	
			2	5	220	220	
			3	2	101	101	
			4	11	504	504	
					-----	-----	-----
			40	1989	1989		
			=====	=====	=====		
	length	IVA	2	1	60		
			3	1	31		
			1	3	159		
			2	1	51		
		IVC	3	4	209		
			4	6	319		
1			14	756			
2			10	421			
3			5	176			
4			18	772			
		-----	-----	-----			
		63	2954				
		=====	=====	=====			
Dab	age	IIIA	3	1	141	25	
			1	1	134	25	
			2	1	150	25	
			4	1	162	25	
		IVC	1	2	319	50	
			2	2	453	50	
			3	2	281	50	
			4	2	294	50	
					-----	-----	-----
					12	1934	300
		=====	=====	=====			

		length	IIIA	3	1	141	
			IVB	1	1	134	
				2	1	150	
				4	1	162	
			IVC	1	7	552	
				2	7	751	
				3	2	281	
				4	5	411	
					-----	-----	-----
					25	2582	
					=====	=====	=====
	Greater argentine	age/length	VB	2	5	249	120
			VIA	2	3	166	75
					-----	-----	-----
					8	415	195
					=====	=====	=====
Commercial	Herring	age/length	IIA	2	11	955	275
			IVA	1	2	511	50
				2	18	2329	450
				3	41	5128	1025
				4	3	408	75
			IVB	2	20	4246	500
				3	17	3114	425
			IVC	1	2	490	50
				4	7	1259	175
			VIA	1	3	616	75
				3	2	257	50
			VIIB	4	1	25	25
			VIID	1	10	1877	250
				2	16	3470	400
				4	8	1293	200
			VIIE	2	2	287	50
					-----	-----	-----
					163	26265	4075
					=====	=====	=====
	Horse mackerel	age/length	IVA	3	2	165	50
			IVC	3	1	208	25
				4	10	1668	250
			VIA	1	4	545	100
			VIIB	1	1	118	25
				3	1	122	25
			VIID	1	7	787	175
				2	3	657	75
				4	3	322	75
			VIIE	2	1	475	25
				3	2	487	50
				4	11	2114	275
			VIIH	1	1	108	25
				4	1	216	25
			VIIIB	1	17	4612	425
				2	12	3820	300
				3	1	83	25
			VIIJ	1	2	272	50
				2	5	598	125
				3	4	628	100
					-----	-----	-----
					89	18005	2225
					=====	=====	=====
	Lemon sole	age/length	IIIA	2	1	50	50
				3	1	50	50
			IVB	1	1	74	74
				3	1	50	50
				4	3	165	165
			VIID	1	1	57	57
					-----	-----	-----
					8	446	446
					=====	=====	=====

Mackerel	age/length	IVA	2	6	399	150	
			3	13	1184	325	
			4	1	86	25	
		IVB	2	1	82	25	
			4	2	245	50	
		IVC	1	4	230	100	
			2	1	61	25	
		VIA	4	1	25	25	
			1	1	62	25	
		VIIB	3	1	63	25	
			1	7	549	175	
		VIID	2	12	1031	300	
			4	1	106	25	
			4	2	147	50	
		VIIE	4	1	174	25	
			1	15	1502	375	
		VIIH	2	10	616	250	
			1	1	47	25	
		VIIIB	2	5	298	125	
						-----	-----
					85	6907	2125
					=====	=====	=====
Commercial	Nephrops	length	IVB	1	5	2216	
				2	8	3359	
				3	8	3431	
				4	3	1176	

			24	10182			
			=====	=====	=====		
Plaice	age/length	IIIA	2	2	120	120	
			3	3	180	180	
			1	18	1078	1078	
		IVB	2	10	600	600	
			3	9	540	540	
			4	13	780	780	
		IVC	1	14	839	839	
			2	9	539	539	
			3	8	480	480	
			4	14	839	839	

					100	5995	5995
			=====	=====	=====		
Ray blond	length	IVC	1	8	134		
			2	4	30		
			3	3	8		
			4	9	83		

			24	255			
			=====	=====	=====		
Ray spotted	length	IVB	1	1	19		
			4	2	43		
		IVC	1	13	171		
			2	8	112		
			3	5	118		
			4	13	215		

			42	678			
			=====	=====	=====		
Ray starry	length	IVB	4	1	1		

			1	1			
			=====	=====	=====		
Ray thornback	length	IVB	4	2	22		
			1	11	143		
		IVC	2	9	159		
			3	5	38		

				4	13	187		
					-----	-----	-----	
					40	549		
					=====	=====	=====	
Sole	age/length	IVB	1	6	300	300		
			2	11	550	550		
			3	6	300	300		
			4	6	300	300		
		IVC	1	12	600	600		
			2	18	899	899		
			3	10	500	500		
			4	11	524	524		
						-----	-----	-----
						80	3973	3973
						=====	=====	=====
		Turbot	age/length	IVB	1	4	204	204
2	11				644	644		
3	6				314	314		
4	4				206	206		
IVC	1			4	178	178		
	2			9	422	422		
	3			4	180	180		
	4			6	302	302		
						-----	-----	-----
						48	2450	2450
						=====	=====	=====
Commercial Whiting	age			IVB	2	2	100	100
		3	4		200	200		
		4	2		100	100		
		IVC	1	5	250	250		
			2	4	200	200		
			3	2	100	100		
			4	4	200	200		
		VIID	1	1	50	50		
						-----	-----	-----
						24	1200	1200
						=====	=====	=====
		Commercial Whiting	length	IVB	1	2	82	
2	3				510			
3	5				675			
4	4				603			
IVC	1			11	1195			
	2			12	1126			
	3			2	434			
	4			9	1084			
VIID	1			1	189			
						-----	-----	-----
						49	5898	
						=====	=====	=====

Table : 2b

RIVO, 14FEB2006 12:10:44

Species : Sole
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	Sample weight (kg)	Number measured	Number aged	
IVB	111022	14/04/2003	UK104	Beam trawl	36F1	77	180	172	200	79		50	50	
	111023	14/04/2003	UK243	Beam trawl	37F6	134	261	317	339	119		50	50	
	111024	14/04/2003	NG1	Beam trawl	36F3	154	297	286	391	278		50	50	
	111025	14/04/2003	UK383	Beam trawl	39F7	67	164	142	115	24		50	50	
	111030	12/05/2003	UK383	Beam trawl	39F6	73	209	154	105	14		50	50	
	111031	12/05/2003	UK87	Beam trawl	37F7	68	226	138	146	53		50	50	
	111032	12/05/2003	UK382	Beam trawl	39F7	103	245	207	236	72		50	50	
	111033	12/05/2003	UK143	Beam trawl	37F6	79	159	118	138	46		50	50	
	111041	16/06/2003	UK61	Beam trawl	37F6	45	165	189	256	256		50	50	
	111043	16/06/2003	UK274	Beam trawl	36F5	38	99	118	107	172		50	50	
	111046	20/06/2003	TX68	Beam trawl	36F1	122	302	328	428	296		50	50	
							960	2307	2169	2461	1409		550	550
	IVC	111019	11/04/2003	GO38	Beam trawl	35F3	129	363	340	331	271		50	50
		111020	11/04/2003	GO58	Beam trawl	32F3	115	654	259	217	282		50	50
111021		11/04/2003	SL42	Beam trawl	32F2	160	406	425	392	305		50	50	
111026		18/04/2003	TX4	Beam trawl	35F3	133	381	348	478	415		50	50	
111027		18/04/2003	TX38	Beam trawl	35F3	112	379	388	375	454		50	50	
111028		09/05/2003	OD8	Beam trawl	32F3	90	181	286	308	327		50	50	
111029		09/05/2003	SL7	Beam trawl	32F3	199	271	261	225	69		50	50	
111034		16/05/2003	KW49	Beam trawl	33F3	92	200	239	323	361		50	50	
111035		16/05/2003	TX48	Beam trawl	34F4	104	285	238	295	327		50	50	
111036		16/05/2003	TX33	Beam trawl	34F3	75	245	258	297	325		50	50	
111037		16/05/2003	TX45	Beam trawl	35F4	109	311	260	279	355		50	50	
111038		23/05/2003	SL27	Beam trawl	33F3	50	169	203	327	159		50	50	
111039		06/06/2003	GO24	Beam trawl	32F3	48	172	180	235	363		50	50	
111040		13/06/2003	SL27	Beam trawl	33F3	26	92	152	190	266		50	50	
111042		16/06/2003	UK133	Beam trawl	35F3	25	115	119	190	480		50	50	
111044		20/06/2003	OD1	Beam trawl	34F3	49	165	196	283	388		49	49	
111045		20/06/2003	TX32	Beam trawl	34F2	82	257	268	271	677		50	50	
111047	20/06/2003	TX5	Beam trawl	35F3	41	139	174	271	690		50	50		
						1639	4785	4594	5287	6514		899	899	
						2599	7092	6763	7748	7923		1449	1449	
						=====	=====	=====	=====	=====		=====	=====	

Table : 3a

RIVO, 14FEB2006 12:10:44

Species : Plaice
 Year : 2003, quarter : 1
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured	Number aged	
IVB	101001	10/01/2003	UK1	Beam trawl	37F1	948	1304	1908	2162		60	60	
	101004	20/01/2003	UK2	Beam trawl	37F6	566	2429	3949	3873		60	60	
	101005	20/01/2003	UK383	Beam trawl	38F6	528	2302	3371	3010		60	60	
	101006	20/01/2003	UK44	Beam trawl	37F0	561	1071	1387	1140		60	60	
	101008	20/01/2003	UK268	Beam trawl	36F1	764	1095	1698	3356		60	60	
	101011	24/01/2003	LK215	Beam trawl	36F4	1053	5358	7163	7067		60	60	
	101012	24/01/2003	HD225	Beam trawl	36F2	429	1972	2441	2254		58	58	
	101013	24/01/2003	TX36	Beam trawl	36F2	1493	5061	6684	7896		60	60	
	101015	10/02/2003	UK194	Beam trawl	37F5	436	1760	2705	2426		60	60	
	101016	10/02/2003	UK52	Beam trawl	37F5	457	1686	2302	2151		60	60	
	101017	10/02/2003	UK158	Twin trawl	38F7	31	213	671	2094		60	60	
	101020	14/02/2003	HD65	Beam trawl	36F3	345	1387	2215	2364		60	60	
	101023	28/02/2003	HD36	Beam trawl	36F4	92	981	1806	2343		60	60	
	101026	17/03/2003	UK158	Beam trawl	39F6	70	243	789	1158		60	60	
	101027	17/03/2003	NG1	Beam trawl	36F4	176	722	1588	2393		60	60	
	101028	17/03/2003	UK 217	Beam trawl	37F6	147	737	1389	1982		60	60	
	101029	17/03/2003	UK133	Beam trawl	36F4	76	299	680	1127		60	60	
	101030	20/03/2003	SC41	Beam trawl	39F5	202	1103	2077	3680		60	60	
							8374	29723	44823	52476		1078	1078
	IVC	101002	17/01/2003	GO20	Beam trawl	34F3	181	1248	2126	2341		60	60
101003		17/01/2003	GO44	Beam trawl	35F3	176	1448	2376	3078		60	60	
101007		20/01/2003	PD43	Beam trawl	34F2	1250	3344	4297	5624		60	60	
101009		20/01/2003	WN1	Beam trawl	33F2	1007	3406	5778	6407		60	60	
101010		24/01/2003	GO28	Beam trawl	33F3	291	886	1595	1986		60	60	
101014		07/02/2003	GO37	Beam trawl	34F3	100	621	1681	2681		60	60	
101018		10/02/2003	UK172	Beam trawl	35F3	470	767	2512	2441		60	60	
101019		10/02/2003	PD147	Beam trawl	33F2	381	1278	2040	3472		60	60	
101021		14/02/2003	TX36	Beam trawl	35F2	903	2653	3372	4323		59	59	
101022		21/02/2003	GO4	Beam trawl	34F3	182	486	1015	1934		60	60	
101024		14/03/2003	TX29	Beam trawl	34F4	138	355	892	1452		60	60	
101025		14/03/2003	GO8	Beam trawl	32F3	26	304	1045	1574		60	60	
101031		21/03/2003	TX38	Beam trawl	34F3	37	198	398	992		60	60	
101032		21/03/2003	TX36	Beam trawl	35F3	37	218	486	978		60	60	
							5179	17212	29613	39283		839	839
							13553	46935	74436	91759		1917	1917
							=====	=====	=====	=====		=====	=====

Table : 3b

RIVO, 14FEB2006 12:10:44

Species : Plaice
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured	Number aged
IIIA	101047	16/05/2003	TX68	Beam trawl	43F8	650	3313	5618	3966		60	60
	101052	16/06/2003	M600HO	Beam trawl	43F8	258	1689	6879	14560		60	60
						908	5002	12497	18526		120	120
IVB	101033	11/04/2003	UK1	Beam trawl	37F1	499	2146	4578	4066		60	60
	101035	14/04/2003	UK243	Beam trawl	37F6	144	443	919	1771		60	60
	101036	14/04/2003	UK104	Beam trawl	36F1	642	1493	1696	1764		60	60
	101038	14/04/2003	UK383	Beam trawl	39F6	125	963	1931	2332		60	60
	101041	12/05/2003	UK87	Beam trawl	37F6	99	415	992	1672		60	60
	101042	12/05/2003	UK383	Beam trawl	39F6	111	582	1259	2404		60	60
	101043	12/05/2003	R260K	Beam trawl	39F6	161	1431	3585	6290		60	60
	101044	12/05/2003	UK143	Beam trawl	37F7	105	532	1160	1650		60	60
	101046	16/05/2003	B462	Beam trawl	42F5	663	1663	1090	268		60	60
	101050	16/06/2003	UK61	Beam trawl	37F6	24	119	327	765		60	60
					2573	9787	17537	22982		600	600	
IVC	101034	11/04/2003	OD8	Beam trawl	32F3	12	140	438	1045		60	60
	101037	14/04/2003	NG1	Beam trawl	35F4	111	411	822	1854		60	60
	101039	18/04/2003	TX38	Beam trawl	35F3	18	129	266	862		60	60
	101040	18/04/2003	TX4	Beam trawl	35F3	23	146	381	1349		60	60
	101045	16/05/2003	TX94	Beam trawl	34F3	41	125	264	666		60	60
	101048	06/06/2003	GO24	Beam trawl	32F3	15	124	421	1908		60	60
	101049	13/06/2003	SL27	Beam trawl	33F3	31	136	358	1576		59	59
	101051	16/06/2003	UK133	Beam trawl	35F3	37	193	465	911		60	60
	101053	20/06/2003	TX32	Beam trawl	34F2	31	250	444	701		60	60
						319	1654	3859	10872		539	539
					3800	16443	33893	52380		1259	1259	

Table : 5b

RIVO, 14FEB2006 12:10:44

Species : Brill
Year : 2003, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Sample weight (kg)	Number measured	Number aged
IVB	131009	11/04/2003	UK1	Beam trawl	36F2	1	8	0		14	14
	131012	14/04/2003	GY127	Beam trawl	39F6	75	34	4		60	60
	131013	14/04/2003	R260K	Beam trawl	40F7	98	65	24		59	59
	131014	14/04/2003	PD147	Beam trawl	41F6	60	50	16		60	60
	131019	12/05/2003	UK43	Beam trawl	38F7		27	12		45	45
	131020	12/05/2003	UK383	Beam trawl	39F6		48	9		44	44
	131021	12/05/2003	UK284	Beam trawl	38F6		68	32		45	45
	131022	16/05/2003	KW88	Beam trawl	39F1	4	15	1		24	24
	131023	16/05/2003	TX68	Beam trawl	43F7		21	1		20	20
	131027	16/06/2003	UK61	Beam trawl	37F6		24	19		40	40
	131028	20/06/2003	BRA7	Beam trawl	37F5		52	4		45	45
						238	412	122		456	456
IVC	131010	11/04/2003	GO20	Beam trawl	34F3	70	152	13		57	57
	131011	11/04/2003	OD8	Beam trawl	32F3		72	12		46	46
	131015	18/04/2003	TX94	Beam trawl	34F4	51	119	10		51	51
	131016	18/04/2003	HD80	Beam trawl	35F4		13	7		35	35
	131017	18/04/2003	TX32	Beam trawl	35F4		56	4		37	37
	131018	09/05/2003	OD8	Beam trawl	32F3		32	7		42	42
	131024	06/06/2003	OD6	Beam trawl	33F3	36	76	8		49	49
	131025	13/06/2003	SL27	Beam trawl	33F3	10	33	6		42	42
	131026	16/06/2003	UK133	Beam trawl	35F3		110	8		45	45
						167	663	75		404	404
						405	1075	197		860	860
						=====	=====	=====	=====	=====	=====

Table : 6b

RIVO, 14FEB2006 12:10:44

Species : Dab
Year : 2003, quarter : 2
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged
IVB	121004	14/04/2003	UK383	Beam trawl	39F7		24.0	25
							24.0	25
IVC	121005	09/05/2003	SL7	Beam trawl	32F3		26.2	25
	121006	20/06/2003	SL27	Beam trawl	33F3		40.0	25
							66.2	50
							90.2	75
							=====	=====

Table : 6d

RIVO, 14FEB2006 12:10:44

Species : Dab
Year : 2003, quarter : 4
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged
IVB	121010	20/10/2003	PD47	Beam trawl	37F3		31.0	25
							31.0	25
IVC	121011	14/11/2003	GO28	Beam trawl	33F3		27.7	25
	121012	12/12/2003	GO8	Beam trawl	33F3		23.3	25
							51.0	50
							82.0	75
							=====	=====

Table : 6e

RIVO, 14FEB2006 12:10:44

Species : Dab
Year : 2003, quarter : 1
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number measured
IVB	120005	20/01/2003	UK268	Beam trawl	36F1		19.7	134
							19.7	134
IVC	120001	10/01/2003	GO22	Beam trawl	33F3		6.0	36
	120002	17/01/2003	VLI26	Beam trawl	31F2		7.2	47
	120003	17/01/2003	VLI6	Beam trawl	32F2		10.0	64
	120004	17/01/2003	UK143	Beam trawl	34F4		26.0	160
	120006	07/02/2003	GO24	Beam trawl	33F3		6.7	39
	120007	21/02/2003	GO26	Beam trawl	33F3		8.4	47
	120008	14/03/2003	GO8	Beam trawl	32F3		23.7	159
							88.0	552
							107.7	686
							===== =====	=====

Table : 6f

RIVO, 14FEB2006 12:10:44

Species : Dab
Year : 2003, quarter : 2
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number measured
IVB	120011	14/04/2003	UK383	Beam trawl	39F7		24.0	150
							24.0	150
IVC	120009	04/04/2003	GO28	Beam trawl	33F3		7.8	57
	120010	11/04/2003	OD8	Beam trawl	32F3		7.6	56
	120012	25/04/2003	UK1	Beam trawl	34F4		14.1	77
	120013	09/05/2003	NG12	Beam trawl	34F2		9.4	60
	120014	09/05/2003	SL7	Beam trawl	32F3		26.2	184
	120015	20/06/2003	SL27	Beam trawl	33F3		40.0	269
	120016	27/06/2003	SL27	Beam trawl	35F2		7.6	48
							112.7	751
							136.7	901
							=====	=====

Table : 6h

RIVO, 14FEB2006 12:10:44

Species : Dab
Year : 2003, quarter : 4
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number measured
IVB	120021	20/10/2003	PD47	Beam trawl	37F3		31.0	162
							31.0	162
IVC	120020	10/10/2003	GO22	Beam trawl	35F3		7.2	42
	120022	07/11/2003	SL7	Beam trawl	32F3		8.4	40
	120023	14/11/2003	GO28	Beam trawl	33F3		27.7	141
	120024	12/12/2003	GO8	Beam trawl	33F3		23.3	133
	120025	12/12/2003	SL7	Beam trawl	32F3		10.0	55
							76.6	411
							107.6	573
						=====	=====	=====

Table : 7a

RIVO, 14FEB2006 12:10:44

Species : Lemon sole
Year : 2003, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Sample weight (kg)	Number measured	Number aged
IVB	161002	28/02/2003	FR231	Twin trawl	39F1	36	105	415		74	74
						36	105	415		74	74
VIID	161001	10/02/2003	Z571	Beam trawl	30F0	4	89	102		57	57
						4	89	102		57	57
						40	194	517		131	131
						=====	=====	=====	=====	=====	=====

Table : 7b

RIVO, 14FEB2006 12:10:44

Species : Lemon sole
Year : 2003, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Sample weight (kg)	Number measured	Number aged
IIIA	161003	16/06/2003	M600HO	Beam trawl	43F8	-----	41	134	-----	50	50
						-----	41	134	-----	50	50
						-----	41	134	-----	50	50
						=====	=====	=====	=====	=====	=====

Table : 7c

RIVO, 14FEB2006 12:10:44

Species : Lemon sole
Year : 2003, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Sample weight (kg)	Number measured	Number aged
IIIA	161004	07/07/2003	UK44	Beam trawl	43F9		140	118		50	50
							140	118		50	50
IVB	161005	11/08/2003	UK44	Beam trawl	37F2		17	81		50	50
							17	81		50	50
							157	199		100	100
						=====	=====	=====	=====	=====	=====

Table : 7d

RIVO, 14FEB2006 12:10:44

Species : Lemon sole
Year : 2003, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Sample weight (kg)	Number measured	Number aged
IVB	161006	20/10/2003	PD47	Beam trawl	37F3	3	38	267		54	54
	161007	10/11/2003	PD43	Beam trawl	37F3		22	371		50	50
	161008	08/12/2003	N168	Beam trawl	41F6	8	162	724		61	61
						-----	-----	-----	-----	-----	-----
						11	222	1362		165	165
						-----	-----	-----	-----	-----	-----
						11	222	1362		165	165
						=====	=====	=====	=====	=====	=====

Table : 9a

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 1
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number aged
IVC	211001	10/01/2003	GO56	Beam trawl	34F3	191		40.0	50
	211002	24/01/2003	GO28	Beam trawl	33F3	139		44.1	50
	211003	07/02/2003	GO44	Beam trawl	33F3	40		40.0	50
	211004	21/02/2003	SL27	Beam trawl	34F2	87		37.0	50
	211005	14/03/2003	TX29	Beam trawl	34F4	90		41.5	50
						547		202.6	250
VIID	211006	28/03/2003	UK48	Twin trawl	30F0	524	1739	39.0	50
						524	1739	39.0	50
						1071	1739	241.6	300
						=====	=====	=====	=====

Table : 9b

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 2
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number aged
IVB	211007	11/04/2003	TX56	Otter trawl	36F4	342	1090	34.8	50
	211012	20/06/2003	UK135/145	Pair trawl	37F7	190		40.0	50
						532	1090	74.8	100
IVC	211008	18/04/2003	TX94	Otter trawl	35F2	117		30.9	50
	211009	16/05/2003	KW49	Beam trawl	33F2	360		51.0	50
	211010	23/05/2003	SL27	Beam trawl	34F3	157		42.7	50
	211011	13/06/2003	SL27	Beam trawl	33F2	35		35.0	50
						669		159.6	200
						1201	1090	234.4	300
						=====	=====	=====	=====

Table : 9c

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 3
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number aged
IVB	211015	22/08/2003	WR18	Twin trawl	36F3	179		31.8	50
	211016	29/08/2003	UK135/145	Pair trawl	36F5	20		20.0	50
	211017	19/09/2003	TX41	Twin trawl	37F4	337		40.0	50
	211018	26/09/2003	WR52	Twin trawl	37F4	264		27.0	50
						800		118.8	200
IVC	211013	04/07/2003	GO38	Beam trawl	32F2	86		41.0	50
	211014	11/07/2003	SL42	Beam trawl	32F2	120		48.3	50
						206		89.3	100
						1006		208.1	300
						=====	=====	=====	=====

Table : 9d

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 4
Type : Commercial , age samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number aged
IVB	211020	17/10/2003	GO22	Beam trawl	38F3	55		40.4	50
	211022	21/11/2003	SC19	Twin trawl	36F2	1117		41.6	50
						1172		82.0	100
IVC	211019	10/10/2003	GO38	Beam trawl	33F2	49		42.0	50
	211021	14/11/2003	GO28	Beam trawl	33F3	49		40.0	50
	211023	05/12/2003	GO28	Beam trawl	33F3	174		54.0	50
	211024	12/12/2003	GO8	Beam trawl	33F3	505		39.0	50
						777		175.0	200
						1949		257.0	300
						=====		=====	=====

Table : 9e

RIVO, 14FEB2006 12:10:44

Species : Whiting
 Year : 2003, quarter : 1
 Type : Commercial , length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number measured
IVB	210005	20/01/2003	UK2	Beam trawl	37F6	6			26
	210013	28/03/2003	KW137	Twin trawl	37F2	275			56
						281			82
IVC	210001	10/01/2003	GO56	Beam trawl	34F3	191			182
	210002	17/01/2003	VLI26	Beam trawl	31F2	200			27
	210003	17/01/2003	VLI6	Beam trawl	32F2	26			28
	210004	20/01/2003	SL27	Beam trawl	34F2	120			45
	210006	24/01/2003	GO28	Beam trawl	33F3	139			207
	210007	07/02/2003	GO44	Beam trawl	33F3	40			160
	210008	21/02/2003	SL27	Beam trawl	34F2	87			152
	210009	07/03/2003	GO26	Beam trawl	33F3	188			49
	210010	14/03/2003	OD1	Beam trawl	35F3	38			50
	210011	14/03/2003	TX29	Beam trawl	34F4	90			190
	210012	21/03/2003	NG7	Otter trawl	34F3	265	3400		105
						1384	3400		1195
VIID	210014	28/03/2003	UK48	Twin trawl	30F0	524	1739		189
						524	1739		189
						2189	5139		1466
					=====	=====	=====	=====	

Table : 9f

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 2
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number measured
IVB	210017	11/04/2003	TX56	Otter trawl	36F4	342	1090		204
	210025	13/06/2003	FR231	Twin trawl	40F1	526			58
	210028	20/06/2003	UK135/145	Pair trawl	37F7	190			248
						1058	1090		510
IVC	210015	04/04/2003	GO28	Beam trawl	33F3	274			41
	210016	04/04/2003	GO4	Beam trawl	33F2	137			38
	210018	11/04/2003	OD8	Beam trawl	32F3	108			45
	210019	18/04/2003	TX94	Beam trawl	35F2	117			160
	210020	25/04/2003	UK1	Beam trawl	34F4	91			54
	210021	09/05/2003	NG12	Beam trawl	34F2		520		47
	210022	16/05/2003	KW49	Beam trawl	33F2	360			239
	210023	13/06/2003	SL27	Beam trawl	33F2	35			165
		23/05/2003	SL27	Beam trawl	34F3	157			188
	210024	23/05/2003	GO41	Beam trawl	33F2	440			59
	210027	20/06/2003	GO26	Beam trawl	34F3	34			46
210029	27/06/2003	SL27	Beam trawl	35F2	49			44	
						1802	520		1126
						2860	1610		1636
						=====	=====	=====	=====

Table : 9g

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 3
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number measured
IVB	210032	22/08/2003	WR18	Twin trawl	36F3	179			147
	210033	29/08/2003	SC41/42	Pair trawl	37F3	543			42
	210034	29/08/2003	UK135/145	Pair trawl	36F5	20			100
	210035	19/09/2003	TX41	Twin trawl	37F4	337			230
	210036	26/09/2003	WR52	Twin trawl	37F4	264			156
						1343			675
IVC	210030	04/07/2003	G038	Beam trawl	32F2	86			180
	210031	11/07/2003	SL42	Beam trawl	32F2	120			254
						206			434
						1549			1109
						=====	=====	=====	=====

Table : 9h

RIVO, 14FEB2006 12:10:44

Species : Whiting
Year : 2003, quarter : 4
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Sample weight (kg)	Number measured
IVB	210037	03/10/2003	UK137	Otter trawl	37F3	100	468		105
	210040	17/10/2003	GO22	Beam trawl	38F3	55			221
	210041	24/10/2003	SC42	Twin trawl	37F2	631			38
	210045	21/11/2003	SC19	Twin trawl	36F2	1117			239
						1903	468		603
IVC	210038	10/10/2003	GO22	Beam trawl	35F3	9			52
	210039	10/10/2003	GO38	Beam trawl	33F2	49			236
	210042	07/11/2003	SL7	Beam trawl	32F3	182			43
	210043	14/11/2003	TX56	Otter trawl	32F3	965			33
	210044	14/11/2003	GO28	Beam trawl	33F3	49			193
	210046	28/11/2003	KW137/173	Pair trawl	34F4	16			48
	210047	05/12/2003	GO28	Beam trawl	33F3	174			239
	210048	12/12/2003	SL7	Beam trawl	32F3	614			49
	210049	12/12/2003	GO8	Beam trawl	33F3	505			191
						2563			1084
						4466	468		1687
						=====	=====	=====	=====

Table : 10a

RIVO, 14FEB2006 12:10:44

Species : Herring
 Year : 2003, quarter : 1
 Type : Commercial , age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged	
IVAW	1	241015	06/01/2003	16/01/2003	PH110/220	Pair trawl	51E8	24.8	251	25	
		241016	07/01/2003	16/01/2003	PH110/220	Pair trawl	51E9	24.9	260	25	
								49.7	511	50	
IVC	1	241003	21/01/2003	24/01/2003	SCH22/23	Pair trawl	32F2	25.7	249	25	
		241004	24/01/2003	24/01/2003	SCH22/23	Pair trawl	32F2	25.3	241	25	
								51.0	490	50	
VIAN	1	241010	11/01/2003	27/01/2003	SCH333	Pelagic trawl	46E3	24.2	194	25	
		241011	20/01/2003	27/01/2003	SCH333	Pelagic trawl	42E1	24.8	174	25	
		241017	10/01/2003	16/01/2003	PH110/220	Pair trawl	48E5	24.6	248	25	
							73.6	616	75		
VIID	1	241001	04/01/2003	12/01/2003	SCH22/23	Pair trawl	28F0	24.2	180	25	
		241002	08/01/2003	12/01/2003	SCH22/23	Pair trawl	28E9	25.5	172	25	
		241005	03/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	23.2	158	25	
		241006	04/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	21.8	158	25	
		241007	05/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	24.1	176	25	
		241008	06/01/2003	27/01/2003	SCH333	Pelagic trawl	28F0	22.1	209	25	
		241009	07/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	21.6	139	25	
		2	241012	15/02/2003	21/02/2003	SCH22/23	Pair trawl	29F1	26.3	210	25
			241013	20/02/2003	21/02/2003	SCH22/23	Pair trawl	30F1	25.7	206	25
	3	241014	20/02/2003	04/03/2003	SCH22/23	Pair trawl	29F0	25.5	269	25	
								240.0	1877	250	
								414.3	3494	425	
									=====	=====	=====

Table : 10b

RIVO, 14FEB2006 12:10:44

Species : Herring
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IIA	6	241050	02/06/2003	17/06/2003	SCH72	Pelagic trawl	70F2	18.0	81	25
		241051	06/06/2003	17/06/2003	SCH72	Pelagic trawl	74F8	14.0	59	25
		241052	09/06/2003	17/06/2003	SCH72	Pelagic trawl	74F7	11.5	42	25
		241054	11/06/2003	26/06/2003	SCH333	Pelagic trawl	73F6	26.3	130	25
		241055	11/06/2003	26/06/2003	SCH333	Pelagic trawl	73F4	24.2	97	25
		241056	11/06/2003	26/06/2003	SCH333	Pelagic trawl	73F5	23.2	81	25
		241057	11/06/2003	26/06/2003	SCH333	Pelagic trawl	73F3	22.3	76	25
		241058	14/06/2003	26/06/2003	SCH333	Pelagic trawl	73F4	21.9	75	25
		241081	02/06/2003	28/06/2003	SCH123	Pelagic trawl	70E7	24.7	115	25
		241082	04/06/2003	28/06/2003	SCH123	Pelagic trawl	73F8	24.9	100	25
241083	06/06/2003	28/06/2003	SCH123	Pelagic trawl	73F8	22.8	99	25		
								233.8	955	275
IVAE	6	241043	31/05/2003	08/06/2003	SCH22/23	Pair trawl	44F2	24.6	275	25
										24.6
IVAW	6	241053	02/06/2003	26/06/2003	SCH333	Pelagic trawl	48E8	24.6	234	25
		241059	15/06/2003	26/06/2003	SCH333	Pelagic trawl	50F1	21.6	67	25
		241060	18/06/2003	26/06/2003	SCH333	Pelagic trawl	50E9	21.9	162	25
		241061	20/06/2003	26/06/2003	SCH333	Pelagic trawl	50E8	22.1	156	25
		241062	23/06/2003	26/06/2003	SCH333	Pelagic trawl	51E8	23.7	130	25
		241063	23/06/2003	26/06/2003	SCH333	Pelagic trawl	51E8	24.1	97	25
		241071	25/06/2003	28/06/2003	PH110/220	Pair trawl	51E9	24.1	106	25
		241072	19/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	23.5	124	25
		241073	20/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	24.9	119	25
		241074	20/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	22.9	101	25
		241075	21/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	23.9	108	25
		241076	21/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	24.4	110	25
		241077	23/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	24.3	108	25
		241078	23/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	23.5	127	25
		241079	23/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	25.0	111	25
		241080	24/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	24.8	93	25
241084	18/06/2003	28/06/2003	SCH123	Pelagic trawl	51E8	22.1	101	25		
								401.4	2054	425
IVB	5	241034	19/05/2003	25/05/2003	SCH22/23	Pair trawl	42F2	21.6	137	25
		241035	20/05/2003	25/05/2003	SCH22/23	Pair trawl	42F2	22.0	150	25
		241036	22/05/2003	25/05/2003	SCH22/23	Pair trawl	42F2	18.4	107	25
		241037	23/05/2003	25/05/2003	SCH22/23	Pair trawl	42F2	23.4	174	25
		241038	24/05/2003	25/05/2003	SCH22/23	Pair trawl	41F0	23.2	169	25
	6	241039	24/05/2003	25/05/2003	SCH22/23	Pair trawl	42F2	22.8	154	25
		241042	29/05/2003	08/06/2003	SCH22/23	Pair trawl	42F2	25.1	286	25
		241044	02/06/2003	08/06/2003	SCH22/23	Pair trawl	41F0	25.1	238	25

		241045	02/06/2003	08/06/2003	SCH22/23	Pair trawl	41F0	25.1	239	25
		241046	03/06/2003	08/06/2003	SCH22/23	Pair trawl	41E9	24.2	238	25
		241047	03/06/2003	08/06/2003	SCH22/23	Pair trawl	41E9	25.7	276	25
		241048	04/06/2003	08/06/2003	SCH22/23	Pair trawl	41E9	25.9	287	25
		241049	06/06/2003	08/06/2003	SCH22/23	Pair trawl	41E9	25.1	266	25
		241064	14/06/2003	26/06/2003	SCH22/23	Pair trawl	42E8	27.0	109	25
		241065	14/06/2003	26/06/2003	SCH22/23	Pair trawl	41E9	23.3	252	25
		241066	14/06/2003	26/06/2003	SCH22/23	Pair trawl	41E9	25.2	270	25
		241067	17/06/2003	26/06/2003	SCH22/23	Pair trawl	42E9	22.3	243	25
		241068	17/06/2003	26/06/2003	SCH22/23	Pair trawl	41E9	24.2	276	25
		241069	18/06/2003	26/06/2003	SCH22/23	Pair trawl	41E9	23.1	243	25
		241070	18/06/2003	26/06/2003	SCH22/23	Pair trawl	41E9	26.2	132	25
								-----	-----	-----
								478.9	4246	500
								-----	-----	-----
VIID	4	241018	15/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	22.5	212	25
		241019	15/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	23.0	227	25
		241020	16/04/2003	28/04/2003	PH110/220	Pair trawl	30F0	24.1	243	25
		241021	16/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	23.6	233	25
		241022	16/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	24.3	223	25
		241023	17/04/2003	28/04/2003	PH110/220	Pair trawl	30F0	25.1	244	25
		241024	17/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	24.1	230	25
		241025	17/04/2003	28/04/2003	PH110/220	Pair trawl	29F0	23.0	224	25
		241026	21/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	24.1	190	25
		241027	22/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	23.4	162	25
		241028	23/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	24.3	190	25
		241029	23/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	23.9	170	25
	5	241030	16/04/2003	14/05/2003	SCH333	Pelagic trawl	29F0	24.5	233	25
		241031	16/04/2003	14/05/2003	SCH333	Pelagic trawl	29F0	23.9	224	25

Table : 10b

RIVO, 14FEB2006 12:10:44

Species : Herring
Year : 2003, quarter : 2
Type : Commercial , age/length samples
Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIID	5	241032	17/04/2003	14/05/2003	SCH333	Pelagic trawl	29F0	25.9	254	25
		241033	17/04/2003	14/05/2003	SCH333	Pelagic trawl	29F0	24.1	211	25
								383.8	3470	400
VIIE	5	241040	19/05/2003	30/05/2003	PH110/220	Pair trawl	29E5	24.4	147	25
		241041	20/05/2003	30/05/2003	PH110/220	Pair trawl	29E5	24.1	140	25
								48.5	287	50
							1571.0	11287	1675	
							=====	=====	=====	

Table : 10c

RIVO, 14FEB2006 12:10:44

Species : Herring
 Year : 2003, quarter : 3
 Type : Commercial , age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged		
IVAE	7	241109	18/07/2003	27/07/2003	SCH123	Pelagic trawl	47F5	25.1	147	25		
		241113	16/07/2003	27/07/2003	SCH123	Pelagic trawl	47F3	24.6	139	25		
								49.7	286	50		
IVAV	7	241085	02/07/2003	14/07/2003	PH110/220	Pair trawl	50F0	23.5	108	25		
		241086	03/07/2003	14/07/2003	PH110/220	Pair trawl	51F0	18.0	78	25		
		241087	03/07/2003	14/07/2003	PH110/220	Pair trawl	51F0	23.5	108	25		
		241088	07/07/2003	14/07/2003	SCH22/23	Pair trawl	51F0	26.1	143	25		
		241089	08/07/2003	14/07/2003	SCH22/23	Pair trawl	51F0	26.1	143	25		
		241090	02/07/2003	14/07/2003	SCH22/23	Pair trawl	51F0	23.5	105	25		
		241091	04/07/2003	14/07/2003	SCH22/23	Pair trawl	51E9	23.8	105	25		
		241092	09/07/2003	21/07/2003	KW72	Pelagic trawl	49F0	23.4	125	25		
		241093	13/07/2003	21/07/2003	KW72	Pelagic trawl	50E7	19.7	84	25		
		241094	15/07/2003	21/07/2003	KW72	Pelagic trawl	48E6	23.3	128	25		
		241096	23/07/2003	24/07/2003	SCH22/23	Pair trawl	48E8	24.3	195	25		
		241097	21/07/2003	24/07/2003	SCH22/23	Pair trawl	50E7	25.3	109	25		
		241098	18/07/2003	24/07/2003	SCH22/23	Pair trawl	51E9	25.4	79	25		
		241099	23/07/2003	24/07/2003	SCH22/23	Pair trawl	48E8	23.6	180	25		
		241100	21/07/2003	24/07/2003	SCH22/23	Pair trawl	51E8	24.3	117	25		
		241101	19/07/2003	24/07/2003	SCH22/23	Pair trawl	51E8	23.7	103	25		
		241102	16/07/2003	24/07/2003	SCH22/23	Pair trawl	49E9	20.9	89	25		
		241103	16/07/2003	24/07/2003	PH110/220	Pair trawl	49F0	17.9	79	25		
		241104	17/07/2003	24/07/2003	PH110/220	Pair trawl	50E9	23.7	102	25		
		241105	19/07/2003	24/07/2003	PH110/220	Pair trawl	50E8	24.7	107	25		
		241106	21/07/2003	24/07/2003	PH110/220	Pair trawl	50E9	24.8	107	25		
		241107	17/07/2003	23/07/2003	SCH333	Pelagic trawl	48E9	23.6	185	25		
		241108	17/07/2003	23/07/2003	SCH333	Pelagic trawl	51E8	22.8	85	25		
		241110	08/07/2003	27/07/2003	SCH123	Pelagic trawl	49E9	24.4	189	25		
		241111	08/07/2003	23/07/2003	SCH333	Pelagic trawl	50E8	25.5	130	25		
		241114	24/07/2003	27/07/2003	SCH123	Pelagic trawl	47F0	24.4	120	25		
		241115	16/07/2003	27/07/2003	SCH123	Pelagic trawl	47E6	24.6	139	25		
		241116	06/07/2003	27/07/2003	SCH123	Pelagic trawl	48E8	24.1	173	25		
		8	8	241117	01/08/2003	08/08/2003	SCH22/23	Pair trawl	50E9	25.5	122	25
				241118	04/08/2003	08/08/2003	SCH22/23	Pair trawl	46E9	24.6	140	25
				241119	06/08/2003	08/08/2003	SCH22/23	Pair trawl	46E9	23.5	174	25
				241120	30/07/2003	07/08/2003	PH110/220	Pair trawl	49E8	20.1	127	25
				241121	05/08/2003	07/08/2003	PH110/220	Pair trawl	48E8	23.3	112	25
241122	06/08/2003			07/08/2003	PH110/220	Pair trawl	46E9	22.0	142	25		
241123	02/08/2003			20/08/2003	SCH123	Pelagic trawl	46F0	22.9	130	25		
241124	03/08/2003			20/08/2003	SCH123	Pelagic trawl	46F0	24.1	130	25		
241125	08/08/2003			20/08/2003	SCH123	Pelagic trawl	47F0	22.8	116	25		
241126	10/08/2003			20/08/2003	SCH123	Pelagic trawl	45E9	22.7	103	25		
9	241137			02/09/2003	04/09/2003	SCH22/23	Pair trawl	48E8	25.7	131	25	
							916.1	4842	975			

IVB	8	241127	14/08/2003	20/08/2003	SCH123	Pelagic trawl	40F0	25.5	212	25	
		241128	18/08/2003	20/08/2003	SCH123	Pelagic trawl	42E9	24.8	195	25	
	241129	12/08/2003	20/08/2003	SCH22/23	Pair trawl	40E9	26.2	217	25		
	241130	20/08/2003	20/08/2003	SCH22/23	Pair trawl	43E9	24.9	285	25		
	241131	16/08/2003	22/08/2003	SCH333	Pelagic trawl	41F0	24.8	198	25		
	241132	17/08/2003	22/08/2003	SCH333	Pelagic trawl	41E9	24.1	216	25		
	241133	12/08/2003	22/08/2003	SCH333	Pelagic trawl	40E9	24.2	174	25		
	241134	19/08/2003	22/08/2003	SCH333	Pelagic trawl	43E8	25.9	140	25		
	241135	20/08/2003	22/08/2003	SCH333	Pelagic trawl	40E9	25.3	225	25		
	9	241136	27/08/2003	04/09/2003	SCH22/23	Pair trawl	43E9	25.3	133	25	
		241138	28/08/2003	12/09/2003	SCH123	Pelagic trawl	40E9	25.3	165	25	
		241139	29/08/2003	12/09/2003	SCH123	Pelagic trawl	43E9	24.5	159	25	
		241140	01/09/2003	12/09/2003	SCH123	Pelagic trawl	43E9	24.6	165	25	
		241141	07/09/2003	12/09/2003	SCH123	Pelagic trawl	43F0	24.2	135	25	
		241142	09/09/2003	12/09/2003	SCH123	Pelagic trawl	40E9	24.3	141	25	
		241143	12/09/2003	20/09/2003	SCH22/23	Pair trawl	37F0	24.6	168	25	
		241144	15/09/2003	20/09/2003	SCH22/23	Pair trawl	37F0	25.2	186	25	
										423.7	3114
	VIAN	7	241095	18/07/2003	21/07/2003	KW72	Pelagic trawl	47E4	23.9	109	25
			241112	18/07/2003	27/07/2003	SCH123	Pelagic trawl	47E3	25.3	148	25
								49.2	257	50	
								1438.7	8499	1500	
								=====	=====	=====	

Table : 10d

RIVO, 14FEB2006 12:10:44

Species : Herring
 Year : 2003, quarter : 4
 Type : Commercial , age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVAW	11	241151	13/11/2003	22/11/2003	SCH333	Pelagic trawl	51F0	25.0	147	25
		241152	14/11/2003	22/11/2003	SCH333	Pelagic trawl	51F1	23.4	129	25
		241153	17/11/2003	22/11/2003	SCH333	Pelagic trawl	52F0	22.4	132	25
								70.8	408	75
IVC	10	241145	11/10/2003	17/10/2003	SCH22/23	Pair trawl	33F2	25.4	179	25
		241146	14/10/2003	17/10/2003	SCH22/23	Pair trawl	33F2	23.7	162	25
		241147	15/10/2003	17/10/2003	SCH22/23	Pair trawl	33F2	23.9	171	25
		241148	20/10/2003	30/10/2003	SCH22/23	Pair trawl	32F3	25.2	189	25
	11	241149	25/10/2003	30/10/2003	SCH22/23	Pair trawl	34F3	22.8	114	25
		241150	10/11/2003	11/11/2003	SCH22/23	Pair trawl	31F2	23.8	237	25
		241154	15/11/2003	22/11/2003	SCH22/23	Pair trawl	32F2	25.0	207	25
										169.8
VIIB	12	241162	28/11/2003	17/12/2003	SCH172	Pelagic trawl	35D9		25	25
VIID	11	241155	19/11/2003	22/11/2003	SCH22/23	Pair trawl	29F0	24.7	195	25
		241156	20/11/2003	22/11/2003	SCH22/23	Pair trawl	29F0	24.7	192	25
		241157	18/11/2003	25/11/2003	PH110/220	Pair trawl	30F1	20.7	178	25
	12	241158	22/11/2003	25/11/2003	PH110/220	Pair trawl	29F0	24.5	166	25
		241159	22/11/2003	01/12/2003	SCH123	Pelagic trawl	29F0	25.7	168	25
		241160	02/12/2003	03/12/2003	SCH22/23	Pair trawl	28E9	24.0	192	25
		241161	06/12/2003	08/12/2003	SCH333	Pelagic trawl	29F0	21.6	177	25
		241163	11/12/2003	17/12/2003	SCH172	Pelagic trawl	28F0		25	25
										165.9
								406.5	2985	475
								=====	=====	=====

Table : 11a

RIVO, 14FEB2006 12:10:44

Species : Mackerel
 Year : 2003, quarter : 1
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIA	1	281005	11/01/2003	27/01/2003	SCH333	Pelagic trawl	46E3	22.5	83	25
		281006	19/01/2003	27/01/2003	SCH333	Pelagic trawl	41E1	20.2	41	25
		281007	20/01/2003	27/01/2003	SCH333	Pelagic trawl	42E1	24.0	56	25
	2	281008	19/01/2003	07/02/2003	SCH123	Pelagic trawl	43E0	21.2	50	25
								87.9	230	100
VIIB	2	281009	31/01/2003	07/02/2003	SCH123	Pelagic trawl	35D8	22.4	62	25
								22.4	62	25
VIID	1	281001	16/01/2003	24/01/2003	SCH22/23	Pair trawl	30E9	23.0	118	25
		281002	04/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	23.7	69	25
		281003	05/01/2003	27/01/2003	SCH333	Pelagic trawl	28E9	22.7	53	25
		281004	06/01/2003	27/01/2003	SCH333	Pelagic trawl	28F0	18.6	94	25
	2	281010	31/01/2003	09/02/2003	SCH22/23	Pair trawl	29F0	22.0	78	25
		281011	08/02/2003	09/02/2003	SCH22/23	Pair trawl	29F0	21.9	80	25
		281012	13/02/2003	21/02/2003	SCH22/23	Pair trawl	29E9	20.5	57	25
								152.4	549	175
VIIIB	2	281013	15/02/2003	23/02/2003	SCH333	Pelagic trawl	22E4	22.9	300	25
		281014	17/02/2003	16/03/2003	SCH123	Pelagic trawl	23E4	24.2	102	25
	3	281016	11/03/2003	20/03/2003	SCH22/23	Pair trawl	22E5	22.4	92	25
		281017	15/03/2003	20/03/2003	SCH22/23	Pair trawl	22E5	22.4	93	25
		281018	01/03/2003	19/03/2003	SCH333	Pelagic trawl	22E4	23.7	176	25
		281019	03/03/2003	19/03/2003	SCH333	Pelagic trawl	21E5	20.3	43	25
		281020	05/03/2003	19/03/2003	SCH333	Pelagic trawl	22E4	21.8	49	25
		281021	06/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	20.9	52	25
		281022	08/03/2003	19/03/2003	SCH333	Pelagic trawl	23E4	23.9	63	25
		281023	10/03/2003	19/03/2003	SCH333	Pelagic trawl	21E5	22.4	63	25
		281024	11/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	21.3	87	25
		281025	12/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	22.1	60	25
		281026	14/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	24.0	106	25
		281027	15/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	20.6	106	25
		281028	16/03/2003	19/03/2003	SCH333	Pelagic trawl	22E5	22.3	110	25
							335.2	1502	375	
VIIJ	3	281015	20/02/2003	16/03/2003	SCH123	Pelagic trawl	28D9	23.0	47	25
								23.0	47	25
								620.9	2390	700

Table : 11b

RIVO, 14FEB2006 12:10:44

Species : Mackerel
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged	
IVA	6	281058	02/06/2003	26/06/2003	SCH333	Pelagic trawl	48E8	22.1	79	25	
		281059	04/06/2003	26/06/2003	SCH333	Pelagic trawl	51E8	22.1	85	25	
		281060	20/06/2003	26/06/2003	SCH333	Pelagic trawl	50E9	21.0	68	25	
		281061	19/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	21.3	63	25	
		281062	21/06/2003	28/06/2003	PH110/220	Pair trawl	51F0	19.2	42	25	
		281063	25/06/2003	28/06/2003	SCH123	Pelagic trawl	49E7	21.1	62	25	
								126.8	399	150	
IVB	5	281054	21/05/2003	25/05/2003	SCH22/23	Pair trawl	43F1	21.0	82	25	
										21.0	82
VIA	5	281053	03/05/2003	18/05/2003	SCH123	Pelagic trawl	45E0	23.0	61	25	
										23.0	61
VIID	4	281029	25/03/2003	01/04/2003	SCH22/23	Pair trawl	29F0	23.5	92	25	
		281030	31/03/2003	01/04/2003	SCH22/23	Pair trawl	28E9	22.7	91	25	
		281031	27/03/2003	09/04/2003	SCH333	Pelagic trawl	29F0	19.0	63	25	
		281032	29/03/2003	09/04/2003	SCH333	Pelagic trawl	28F0	23.3	73	25	
		281033	30/03/2003	09/04/2003	SCH333	Pelagic trawl	28E9	23.5	92	25	
		281034	03/04/2003	09/04/2003	SCH333	Pelagic trawl	27E9	22.3	68	25	
	5	281042	21/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	20.2	77	25	
		281044	06/05/2003	11/05/2003	SCH22/23	Pair trawl	29F0	19.7	129	25	
		281045	09/05/2003	11/05/2003	SCH22/23	Pair trawl	29F0	20.5	130	25	
		281046	15/04/2003	14/05/2003	SCH333	Pelagic trawl	28F0	22.7	59	25	
		281055	20/05/2003	30/05/2003	PH110/220	Pair trawl	29E9	22.3	81	25	
		281056	27/05/2003	30/05/2003	PH110/220	Pair trawl	30F0	21.8	76	25	
								261.5	1031	300	
VIIIB	4	281035	07/04/2003	15/04/2003	SCH22/23	Pair trawl	22E4	23.3	73	25	
		281036	09/04/2003	15/04/2003	SCH22/23	Pair trawl	22E5	22.3	64	25	
		281037	18/04/2003	28/04/2003	PH110/220	Pair trawl	24E2	21.0	45	25	
		281038	19/04/2003	28/04/2003	PH110/220	Pair trawl	21E5	18.9	67	25	
		281039	22/04/2003	28/04/2003	PH110/220	Pair trawl	22E5	23.9	71	25	
		281040	23/04/2003	28/04/2003	PH110/220	Pair trawl	21E5	23.7	57	25	
	5	281041	25/04/2003	28/04/2003	PH110/220	Pair trawl	21E5	21.7	50	25	
		281047	19/04/2003	14/05/2003	SCH333	Pelagic trawl	23E4	22.9	66	25	
		281048	22/04/2003	14/05/2003	SCH333	Pelagic trawl	21E5	22.7	53	25	
	6	281057	10/06/2003	14/06/2003	PH110/220	Pair trawl	21E5	24.1	70	25	
									224.5	616	250
	VIIJ	4	281043	24/03/2003	11/04/2003	SCH123	Pelagic trawl	30D9	29.3	80	25

5	281049	27/04/2003	14/05/2003	SCH333	Pelagic trawl	27D9	21.2	53	25
	281050	29/04/2003	14/05/2003	SCH333	Pelagic trawl	25D8	22.4	61	25
	281051	03/05/2003	14/05/2003	SCH333	Pelagic trawl	29D9	22.0	50	25
	281052	08/05/2003	14/05/2003	SCH333	Pelagic trawl	27D8	22.1	54	25
							-----	-----	-----
							117.0	298	125
							-----	-----	-----
							773.8	2487	875
							=====	=====	=====

Table : 11c

RIVO, 14FEB2006 12:10:44

Species : Mackerel
Year : 2003, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged		
IVA	7	281064	07/07/2003	14/07/2003	SCH22/23	Pair trawl	51F0	18.9	81	25		
		281065	19/07/2003	24/07/2003	SCH22/23	Pair trawl	51E8	22.0	159	25		
		281066	21/07/2003	24/07/2003	SCH22/23	Pair trawl	50E7	21.8	77	25		
		281067	16/07/2003	24/07/2003	PH110/220	Pair trawl	49F0	20.2	61	25		
		281068	17/07/2003	24/07/2003	PH110/220	Pair trawl	50E9	22.1	66	25		
		281069	22/07/2003	24/07/2003	PH110/220	Pair trawl	49E7	20.5	80	25		
		281070	17/07/2003	23/07/2003	SCH333	Pelagic trawl	51E9	21.5	75	25		
		281071	20/07/2003	23/07/2003	SCH333	Pelagic trawl	51E8	17.9	59	25		
		281072	06/07/2003	23/07/2003	SCH333	Pelagic trawl	51F0	22.3	112	25		
		281074	08/07/2003	23/07/2003	SCH333	Pelagic trawl	50E8	17.0	67	25		
		281075	21/07/2003	27/07/2003	SCH123	Pelagic trawl	48E9	22.3	61	25		
		281076	16/07/2003	27/07/2003	SCH123	Pelagic trawl	50E7	24.1	188	25		
		281073	06/08/2003	08/08/2003	SCH22/23	Pair trawl	45E9	24.6	98	25		
										-----	-----	-----
										275.2	1184	325
		VIIB	8	281077	06/08/2003	22/08/2003	SCH333	Pelagic trawl	34D9	20.8	63	25

								20.8	63	25		
								-----	-----	-----		
								296.0	1247	350		
								=====	=====	=====		

Table : 11d

RIVO, 14FEB2006 12:10:44

Species : Mackerel
Year : 2003, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVA	11	281084	14/11/2003	22/11/2003	SCH333	Pelagic trawl	51F1	21.9	86	25
								21.9	86	25
IVC	10	281078	01/10/2003	03/10/2003	SCH22/23	Pair trawl	31F2	22.4	135	25
		281083	10/11/2003	11/11/2003	SCH22/23	Pair trawl	32F2	21.8	110	25
								44.2	245	50
VIA	12	281085	27/11/2003	17/12/2003	SCH172	Pelagic trawl	38D9		25	25
									25	25
VIID	11	281082	10/11/2003	13/11/2003	PH110/220	Pair trawl	30F0	24.3	106	25
								24.3	106	25
VIIE	10	281079	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	20.4	69	25
		281081	22/07/2003	24/10/2003	PH110/220	Pair trawl	27E6	22.4	78	25
								42.8	147	50
VIIH	10	281080	24/10/2003	28/10/2003	SCH123	Pelagic trawl	26E3	22.4	174	25
								22.4	174	25
								155.6	783	200
								=====	=====	=====

Table : 12a

RIVO, 14FEB2006 12:10:44

Species : Horse mackerel
 Year : 2003, quarter : 1
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIA	1	291004	20/01/2003	27/01/2003	SCH333	Pelagic trawl	42E1	21.5	94	25
		291005	19/01/2003	07/02/2003	SCH123	Pelagic trawl	43E0	20.4	354	25
	2	291006	20/01/2003	07/02/2003	SCH123	Pelagic trawl	46E2	20.6	55	25
		291007	22/01/2003	07/02/2003	SCH123	Pelagic trawl	46E2	21.7	42	25
								84.2	545	100
VIIB	2	291008	31/01/2003	07/02/2003	SCH123	Pelagic trawl	35D8	21.6	118	25
										21.6
VIID	1	291001	10/01/2003	12/01/2003	SCH22/23	Pair trawl	30E8	20.5	98	25
		291002	16/01/2003	24/01/2003	SCH22/23	Pair trawl	29F0	20.6	132	25
		291003	17/01/2003	24/01/2003	SCH22/23	Pair trawl	30E9	20.3	102	25
	2	291009	31/01/2003	09/02/2003	SCH22/23	Pair trawl	29F0	22.7	132	25
		291010	08/02/2003	09/02/2003	SCH22/23	Pair trawl	29F0	22.7	106	25
		291011	14/02/2003	21/02/2003	SCH22/23	Pair trawl	29F0	23.9	112	25
		291012	19/02/2003	21/02/2003	SCH22/23	Pair trawl	29E9	21.2	105	25
										151.9
VIIH	2	291013	06/02/2003	23/02/2003	SCH333	Pelagic trawl	25E1	21.7	108	25
										21.7
VIIIB	2	291015	08/02/2003	23/02/2003	SCH333	Pelagic trawl	23E4	21.4	186	25
		291016	09/02/2003	23/02/2003	SCH333	Pelagic trawl	23E4	19.4	180	25
		291017	14/02/2003	23/02/2003	SCH333	Pelagic trawl	23E4	21.3	192	25
	3	291018	15/02/2003	23/02/2003	SCH333	Pelagic trawl	22E4	20.1	176	25
		291019	17/02/2003	16/03/2003	SCH123	Pelagic trawl	23E4	23.4	216	25
		291021	11/03/2003	20/03/2003	SCH22/23	Pair trawl	22E5	21.8	247	25
		291022	15/03/2003	20/03/2003	SCH22/23	Pair trawl	22E5	21.4	237	25
		291023	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E4	20.3	190	25
		291024	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E4	18.7	161	25
		291025	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	17.7	155	25
		291026	15/02/2003	19/03/2003	SCH333	Pelagic trawl	23E4	18.6	169	25
		291027	15/02/2003	19/03/2003	SCH333	Pelagic trawl	21E5	20.1	200	25
		291028	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	21.0	540	25
		291029	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	21.1	208	25
		291030	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	20.9	536	25
291031	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	20.4	513	25		
291032	15/02/2003	19/03/2003	SCH333	Pelagic trawl	22E5	20.8	506	25		
								348.4	4612	425
VIIJ	2	291014	06/02/2003	23/02/2003	SCH333	Pelagic trawl	25E0	20.5	138	25

3	291020	21/02/2003	16/03/2003	SCH123	Pelagic trawl	29D9	22.8	134	25
							-----	-----	-----
							43.3	272	50
							-----	-----	-----
							671.1	6442	800
							=====	=====	=====

Table : 12b

RIVO, 14FEB2006 12:10:44

Species : Horse mackerel
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIID	4	291040	21/04/2003	28/04/2003	SCH22/23	Pair trawl	29F0	21.0	78	25
		291041	06/05/2003	11/05/2003	SCH22/23	Pair trawl	29F0	21.0	273	25
		291042	09/05/2003	11/05/2003	SCH22/23	Pair trawl	29F0	22.4	306	25
								-----	-----	-----
								64.4	657	75
VIIE	5	291051	11/05/2003	14/05/2003	SCH333	Pelagic trawl	27E6	19.8	475	25

								19.8	475	25
VIIIB	4	291033	07/04/2003	15/04/2003	SCH22/23	Pair trawl	22E4	22.2	513	25
		291034	09/04/2003	15/04/2003	SCH22/23	Pair trawl	22E5	21.7	516	25
		291035	18/04/2003	28/04/2003	PH110/220	Pair trawl	24E2	21.3	492	25
		291036	18/04/2003	28/04/2003	PH110/220	Pair trawl	23E3	20.7	324	25
		291037	19/04/2003	28/04/2003	PH110/220	Pair trawl	21E5	21.0	191	25
		291038	22/04/2003	28/04/2003	PH110/220	Pair trawl	22E5	24.2	258	25
	5	291039	23/04/2003	28/04/2003	PH110/220	Pair trawl	21E5	21.9	346	25
		291043	19/04/2003	14/05/2003	SCH333	Pelagic trawl	23E4	18.0	240	25
		291044	20/04/2003	14/05/2003	SCH333	Pelagic trawl	22E5	20.6	232	25
	6	291045	22/04/2003	14/05/2003	SCH333	Pelagic trawl	21E5	22.7	325	25
		291052	05/06/2003	14/06/2003	PH110/220	Pair trawl	23E4	21.9	237	25
		291053	10/06/2003	14/06/2003	PH110/220	Pair trawl	21E5	23.3	146	25
									-----	-----
								259.5	3820	300
VIIJ	5	291046	27/04/2003	14/05/2003	SCH333	Pelagic trawl	27D9	20.4	114	25
		291047	29/04/2003	14/05/2003	SCH333	Pelagic trawl	27D8	19.9	111	25
		291048	30/04/2003	14/05/2003	SCH333	Pelagic trawl	29D9	21.9	126	25
		291049	03/05/2003	14/05/2003	SCH333	Pelagic trawl	29D9	23.3	141	25
		291050	08/05/2003	14/05/2003	SCH333	Pelagic trawl	27D8	19.0	106	25

								104.5	598	125
								-----	-----	-----
								448.2	5550	525
								=====	=====	=====

Table : 12c

RIVO, 14FEB2006 12:10:44

Species : Horse mackerel
Year : 2003, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVA	7	291054	21/07/2003	24/07/2003	SCH22/23	Pair trawl	50E7	21.7	65	25
		291055	21/07/2003	27/07/2003	SCH123	Pelagic trawl	48E9	22.9	100	25
								44.6	165	50
IVC	9	291064	08/09/2003	20/09/2003	SCH22/23	Pair trawl	35F4	23.3	208	25
								23.3	208	25
VIIB	8	291062	06/08/2003	22/08/2003	SCH333	Pelagic trawl	34D9	20.7	122	25
								20.7	122	25
VIIE	8	291056	19/08/2003	24/08/2003	PH110/220	Pair trawl	28E4	19.6	166	25
		291057	21/08/2003	24/08/2003	PH110/220	Pair trawl	29E6	20.0	321	25
								39.6	487	50
VIIIB	8	291063	10/08/2003	22/08/2003	SCH333	Pelagic trawl	23E3	20.6	83	25
								20.6	83	25
VIIJ	8	291058	29/07/2003	22/08/2003	SCH333	Pelagic trawl	30D9	24.1	164	25
		291059	01/08/2003	22/08/2003	SCH333	Pelagic trawl	29D9	22.8	144	25
		291060	01/08/2003	22/08/2003	SCH333	Pelagic trawl	29D9	22.9	188	25
		291061	04/08/2003	22/08/2003	SCH333	Pelagic trawl	33D8	21.4	132	25
								91.2	628	100
							240.0	1693	275	
							=====	=====	=====	

Table : 12d

RIVO, 14FEB2006 12:10:44

Species : Horse mackerel
 Year : 2003, quarter : 4
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVC	10	291065	24/09/2003	03/10/2003	PH110/220	Pair trawl	32F3	19.5	153	25
		291066	26/09/2003	03/10/2003	PH110/220	Pair trawl	32F3	19.7	168	25
		291067	30/09/2003	03/10/2003	PH110/220	Pair trawl	32F2	22.5	168	25
		291068	02/10/2003	03/10/2003	PH110/220	Pair trawl	31F2	23.2	183	25
		291069	24/09/2003	03/10/2003	SCH22/23	Pair trawl	32F2	20.7	147	25
		291070	01/10/2003	03/10/2003	SCH22/23	Pair trawl	31F2	19.8	132	25
		291071	10/10/2003	17/10/2003	SCH22/23	Pair trawl	31F2	19.3	123	25
		291072	16/10/2003	17/10/2003	SCH22/23	Pair trawl	34F4	19.9	360	25
		291083	22/10/2003	30/10/2003	SCH22/23	Pair trawl	34F4	21.6	144	25
		291084	21/10/2003	30/10/2003	SCH22/23	Pair trawl	34F4	23.2	90	25
									209.4	1668
VIID	11	291087	06/11/2003	13/11/2003	PH110/220	Pair trawl	30E9	20.0	86	25
		291088	04/11/2003	11/11/2003	SCH22/23	Pair trawl	30F1	22.1	92	25
		291089	09/11/2003	22/11/2003	SCH333	Pelagic trawl	29E9	22.3	144	25
							64.4	322	75	
VIIE	10	291073	10/10/2003	18/10/2003	PH110/220	Pair trawl	29E6	19.5	62	25
		291074	11/10/2003	18/10/2003	PH110/220	Pair trawl	29E6	21.6	70	25
		291075	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	20.9	169	25
		291076	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	23.9	279	25
		291077	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	22.2	162	25
		291078	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	21.4	268	25
		291079	09/10/2003	28/10/2003	SCH333	Pelagic trawl	28E7	22.2	243	25
		291080	04/10/2003	28/10/2003	SCH123	Pelagic trawl	28E6	22.8	364	25
		291081	11/10/2003	28/10/2003	SCH123	Pelagic trawl	29E7	23.4	136	25
		291085	22/10/2003	31/10/2003	PH110/220	Pair trawl	29E6	21.0	204	25
		291086	27/10/2003	31/10/2003	PH110/220	Pair trawl	27E6	21.3	157	25
							240.2	2114	275	
VIIH	10	291082	22/10/2003	28/10/2003	SCH123	Pelagic trawl	26E3	22.7	216	25
								22.7	216	25
							536.7	4320	625	

Table : 13a

RIVO, 14FEB2006 12:10:44

Species : Blue whiting
Year : 2003, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIIC	3	301001	27/02/2003	16/03/2003	SCH123	Pelagic trawl	37D5	24.3	252	25
		301002	01/03/2003	16/03/2003	SCH123	Pelagic trawl	36D5	25.7	268	25
		301003	08/03/2003	16/03/2003	SCH123	Pelagic trawl	37D3	24.2	236	25
		301004	08/03/2003	16/03/2003	SCH123	Pelagic trawl	37D3	25.3	244	25
		301005	12/03/2003	16/03/2003	SCH123	Pelagic trawl	36D2	23.7	264	25
							-----	-----	-----	
							123.2	1264	125	
							-----	-----	-----	
							123.2	1264	125	
							=====	=====	=====	

Table : 13b

RIVO, 14FEB2006 12:10:44

Species : Blue whiting
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged	
40D6	4	301019	27/03/2003	10/04/2003	SCH123	Pelagic trawl	40D6	12.6	128	25	
								12.6	128	25	
IIA	6	301052	09/06/2003	17/06/2003	SCH72	Pelagic trawl	74E2	11.5	98	25	
								11.5	98	25	
VB	5	301044	26/04/2003	18/05/2003	SCH123	Pelagic trawl	49E2	24.1	240	25	
		301045	27/04/2003	18/05/2003	SCH123	Pelagic trawl	49E3	23.5	300	25	
		301047	12/05/2003	18/05/2003	SCH123	Pelagic trawl	51E2	22.3	201	25	
	6	301048	14/05/2003	18/05/2003	SCH123	Pelagic trawl	52E1	23.2	284	25	
		301049	16/05/2003	17/06/2003	SCH72	Pelagic trawl	51E2	13.4	173	25	
		301050	22/05/2003	17/06/2003	SCH72	Pelagic trawl	53E1	9.5	102	25	
		301051	26/05/2003	17/06/2003	SCH72	Pelagic trawl	54E1	17.0	192	25	
		301054	28/05/2003	28/06/2003	SCH123	Pelagic trawl	53E1	24.4	306	25	
									157.4	1798	200
VIA	4	301008	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D8	18.6	190	25	
		301036	05/04/2003	10/04/2003	SCH123	Pelagic trawl	42E0	15.5	171	25	
		301037	05/04/2003	10/04/2003	SCH123	Pelagic trawl	43E0	13.2	153	25	
		301038	06/04/2003	10/04/2003	SCH123	Pelagic trawl	43E0	16.1	160	25	
		301039	05/04/2003	10/04/2003	SCH123	Pelagic trawl	43E0	18.0	202	25	
		301040	07/04/2003	10/04/2003	SCH123	Pelagic trawl	43E0	18.0	185	25	
	5	301041	06/04/2003	10/04/2003	SCH123	Pelagic trawl	43E0	17.6	212	25	
		301043	22/04/2003	18/05/2003	SCH123	Pelagic trawl	46E1	24.7	231	25	
		301046	03/05/2003	18/05/2003	SCH123	Pelagic trawl	45E0	23.8	135	25	
		6	301053	25/05/2003	28/06/2003	SCH123	Pelagic trawl	47E2	23.4	108	25
							188.9	1747	250		
VIB	4	301007	25/03/2003	10/04/2003	SCH123	Pelagic trawl	38D7	24.3	243	25	
		301009	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	15.2	149	25	
		301010	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	15.4	166	25	
		301011	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	13.0	139	25	
		301012	25/03/2003	10/04/2003	SCH123	Pelagic trawl	38D7	18.5	166	25	
		301013	25/03/2003	10/04/2003	SCH123	Pelagic trawl	38D7	13.3	128	25	
		301014	25/03/2003	10/04/2003	SCH123	Pelagic trawl	38D7	12.5	136	25	
		301015	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	12.2	130	25	
		301016	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D7	12.5	133	25	
		301017	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	12.0	117	25	
		301018	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	13.4	127	25	
		301020	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	12.6	114	25	
		301021	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	14.0	157	25	
		301022	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	14.9	140	25	

		301023	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	11.2	119	25
		301024	26/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	10.2	113	25
		301025	28/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	14.9	176	25
		301026	28/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	11.3	129	25
		301027	28/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	15.0	147	25
		301028	27/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	15.2	206	25
		301029	28/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	16.0	175	25
		301030	28/03/2003	10/04/2003	SCH123	Pelagic trawl	38D6	15.4	158	25
		301031	31/03/2003	10/04/2003	SCH123	Pelagic trawl	39D6	14.8	150	25
		301032	31/03/2003	10/04/2003	SCH123	Pelagic trawl	39D6	15.9	158	25
		301033	01/04/2003	10/04/2003	SCH123	Pelagic trawl	39D6	17.0	115	25
		301034	02/04/2003	10/04/2003	SCH123	Pelagic trawl	39D6	16.1	162	25
		301035	03/04/2003	10/04/2003	SCH123	Pelagic trawl	39D6	14.9	156	25
								-----	-----	-----
								391.7	4009	675
								-----	-----	-----
VIIJ	4	301006	23/03/2003	10/04/2003	SCH123	Pelagic trawl	27D8	5.2	122	25
	5	301042	10/05/2003	14/05/2003	SCH333	Pelagic trawl	27D8	23.0	447	25
								-----	-----	-----
								28.2	569	50
								-----	-----	-----
								790.3	8349	1225
								=====	=====	=====

Table : 13c

RIVO, 14FEB2006 12:10:44

Species : Blue whiting
Year : 2003, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIIB	8	301055	06/08/2003	22/08/2003	SCH333	Pelagic trawl	34D9	23.2	627	25
								23.2	627	25
VIIIB	8	301056	10/08/2003	22/08/2003	SCH333	Pelagic trawl	23E3	23.9	304	25
								23.9	304	25
								47.1	931	50

Table : 13d

RIVO, 14FEB2006 12:10:

NOTE: NO SAMPLES TAKEN IN 4th QUARTER

Table : 14a
 NOTE: NO SAMPLES TAKEN IN 1st QUARTER

RIVO, 14FEB2006 12:10:44

Table : 14b

RIVO, 14FEB2006 12:10:44

Species : Greater argentine
 Year : 2003, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VB	271004	14/05/2003	18/05/2003	SCH123	Pelagic trawl	52E1	22.7	20	20
	271005	17/05/2003	17/06/2003	SCH72	Pelagic trawl	53E1	13.7	70	25
	271006	18/05/2003	17/06/2003	SCH72	Pelagic trawl	53E1	11.0	41	25
	271007	23/05/2003	17/06/2003	SCH72	Pelagic trawl	53E1	11.5	40	25
	271008	29/05/2003	28/06/2003	SCH123	Pelagic trawl	53E1	22.3	78	25
							-----	-----	-----
							81.2	249	120
							-----	-----	-----
VIA	271001	18/04/2003	18/05/2003	SCH123	Pelagic trawl	47E3	17.5	40	25
	271002	22/04/2003	18/05/2003	SCH123	Pelagic trawl	46E1	22.7	60	25
	271003	05/05/2003	18/05/2003	SCH123	Pelagic trawl	46E0	22.2	66	25
							-----	-----	-----
							62.4	166	75
							-----	-----	-----
							143.6	415	195
							=====	=====	=====

Table : 14c
 NOTE: NO SAMPLES TAKEN IN 3rd QUARTER

RIVO, 14FEB2006 12:10:44

Table : 14d
 NOTE: NO SAMPLES TAKEN IN 4th QUARTER

RIVO, 14FEB2006 12:10:44

Table : 15a

RIVO, 14FEB2006 12:10:44

Species : Nephrops
Year : 2003, quarter : 1
Type : Commercial , length samples
Area type : ICES div
Comment : Category 5 are Nephrops tails

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	Sample weight (kg)	Number measured
IVB	360001	25/01/2003	WR20	Twin trawl	37F2	124	95	780		6		419
	360002	10/02/2003	WR67	Twin trawl	37F2	254	339	738		21		463
	360003	14/02/2003	WR67	Twin trawl	37F2	254	324	784		16		426
	360004	06/03/2003	WR67	Twin trawl	37F2	161	377	1340		18		466
	360005	21/03/2003	WR67	Twin trawl	37F2	183	154	1185		40		442
						976	1289	4827		101		2216
						976	1289	4827		101		2216

Table : 16b

RIVO, 14FEB2006 12:10:44

Species : Ray blond
Year : 2003, quarter : 2
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured
IVC	310009	11/04/2003	GO9	Beam trawl	34F2	90	0	43	0		8
	310010	11/04/2003	GO14	Beam trawl	34F2	25	20	95	5		16
	310011	11/04/2003	VLI6	Beam trawl	32F2	8	0	2	1		3
	310012	27/06/2003	SL27	Beam trawl	35F2	4	5	0	0		3
						-----	-----	-----	-----	-----	-----
						127	25	140	6		30
						-----	-----	-----	-----	-----	-----
						127	25	140	6		30
						=====	=====	=====	=====	=====	=====

Table : 16c

RIVO, 14FEB2006 12:10:44

Species : Ray blond
Year : 2003, quarter : 3
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured
IVC	310013	11/07/2003	GO14	Beam trawl	34F2	0	20	0	0		5
	310014	22/08/2003	KW145	Beam trawl	35F2	6	0	0	0		1
	310015	29/08/2003	KW32	Beam trawl	35F2	0	7	0	0		2
						-----	-----	-----	-----	-----	-----
						6	27	0	0		8
						-----	-----	-----	-----	-----	-----
						6	27	0	0		8
						=====	=====	=====	=====	=====	=====

Table : 16d

RIVO, 14FEB2006 12:10:44

Species : Ray blond
Year : 2003, quarter : 4
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured
IVC	310016	10/10/2003	GO22	Beam trawl	35F3	5	3	4	0		3
	310017	17/10/2003	GO14	Beam trawl	34F2	30	16	0	0		6
	310018	24/10/2003	OD1	Beam trawl	35F3	0	0	2	0		1
	310019	07/11/2003	SL7	Beam trawl	32F3	49	42	4	0		20
	310020	21/11/2003	GO28	Beam trawl	33F3	12	9	19	0		7
	310021	28/11/2003	OD1	Beam trawl	35F2	0	3	0	0		1
	310022	12/12/2003	SL7	Beam trawl	32F3	85	74	125	12		29
	310023	12/12/2003	GO14	Beam trawl	34F2	21	17	0	0		8
	310024	12/12/2003	GO48	Beam trawl	34F2	30	11	0	0		8
						-----	-----	-----	-----	-----	-----
						232	175	154	12		83
						-----	-----	-----	-----	-----	-----
						232	175	154	12		83
						=====	=====	=====	=====	=====	=====

Table : 19a

RIVO, 14FEB2006 12:10:44

Species : Ray thornback
Year : 2003, quarter : 1
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured
IVC	320001	10/01/2003	GO22	Beam trawl	33F3	0	4	20	20		25
	320002	17/01/2003	ARM18	Beam trawl	32F2	0	0	58	20		4
	320003	17/01/2003	ARM17	Beam trawl	32F2	0	56	0	62		9
	320004	17/01/2003	ARM15	Beam trawl	32F2	50	24	38	59		10
	320005	17/01/2003	VLI6	Beam trawl	32F2	0	0	101	9		9
	320006	20/01/2003	SL27	Beam trawl	34F2	11	11	66	28		19
	320007	24/01/2003	GO38	Beam trawl	33F3	0	0	8	18		12
	320008	31/01/2003	KW49	Beam trawl	32F2	0	9	8	8		12
	320009	07/02/2003	GO6	Beam trawl	35F2	25	28	51	7		20
	320010	14/02/2003	OD1	Beam trawl	35F3	0	0	5	2		4
	320011	21/02/2003	GO26	Beam trawl	33F3	0	0	15	6		19
						86	132	370	239		143
						86	132	370	239		143
						=====	=====	=====	=====	=====	=====

Table : 19b

RIVO, 14FEB2006 12:10:44

Species : Ray thornback
Year : 2003, quarter : 2
Type : Commercial , length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Cat 2	Cat 3	Cat 4	Sample weight (kg)	Number measured
IVC	320012	04/04/2003	GO28	Beam trawl	33F3	0	8	55	12		29
	320013	11/04/2003	GO9	Beam trawl	34F2	70	96	238	122		20
	320014	11/04/2003	GO14	Beam trawl	34F2	12	4	86	9		10
	320015	11/04/2003	VL16	Beam trawl	32F2	6	16	16	13		24
	320016	09/05/2003	NG12	Beam trawl	34F2	0	3	17	3		16
	320017	23/05/2003	GO41	Beam trawl	33F2	0	31	20	9		33
	320018	20/06/2003	GO26	Beam trawl	34F3	0	24	11	1		17
	320019	27/06/2003	SL27	Beam trawl	35F2	0	12	0	0		5
	320020	27/06/2003	KW88	Beam trawl	35F2	0	6	10	5		5
						88	200	453	174		159
						88	200	453	174		159
						=====	=====	=====	=====	=====	=====

Table 20
 Overview of samples; number of fish aged and
 measured
 Generated: 14FEB2006 12:10:44

species	v_cat
	LAND
	Commercial
	aged
Blue whiting	1400
Brill	2045
Cod	1989
Dab	300
Greater argentine	195
Herring	4075
Horse mackerel	2225
Lemon sole	446
Mackerel	2125
Nephrops	
Plaice	5995
Ray blond	
Ray spotted	
Ray starry	
Ray thornback	
Sole	3973
Turbot	2450
Whiting	1200

species	v_cat
	LAND
	Commercial
	meas
Blue whiting	10544
Brill	2045
Cod	4943
Dab	4516
Greater argentine	415
Herring	26265
Horse mackerel	18005
Lemon sole	446
Mackerel	6907
Nephrops	10182
Plaice	5995
Ray blond	255
Ray spotted	678
Ray starry	1
Ray thornback	549
Sole	3973
Turbot	2450
Whiting	7098

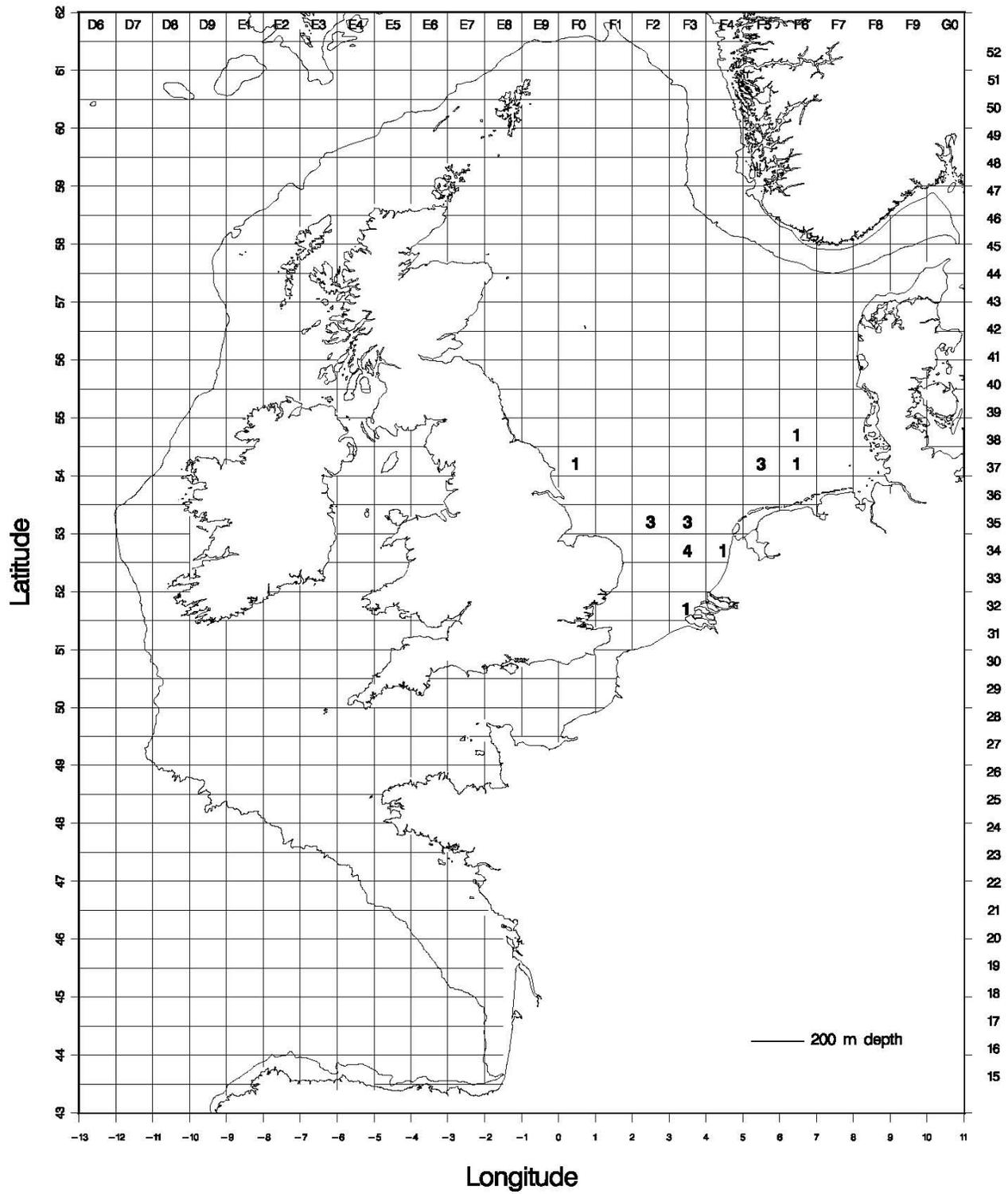


Figure 2a: Sole quarter 1 2003
 Number of age/length samples of commercial catches per ICES rectangle

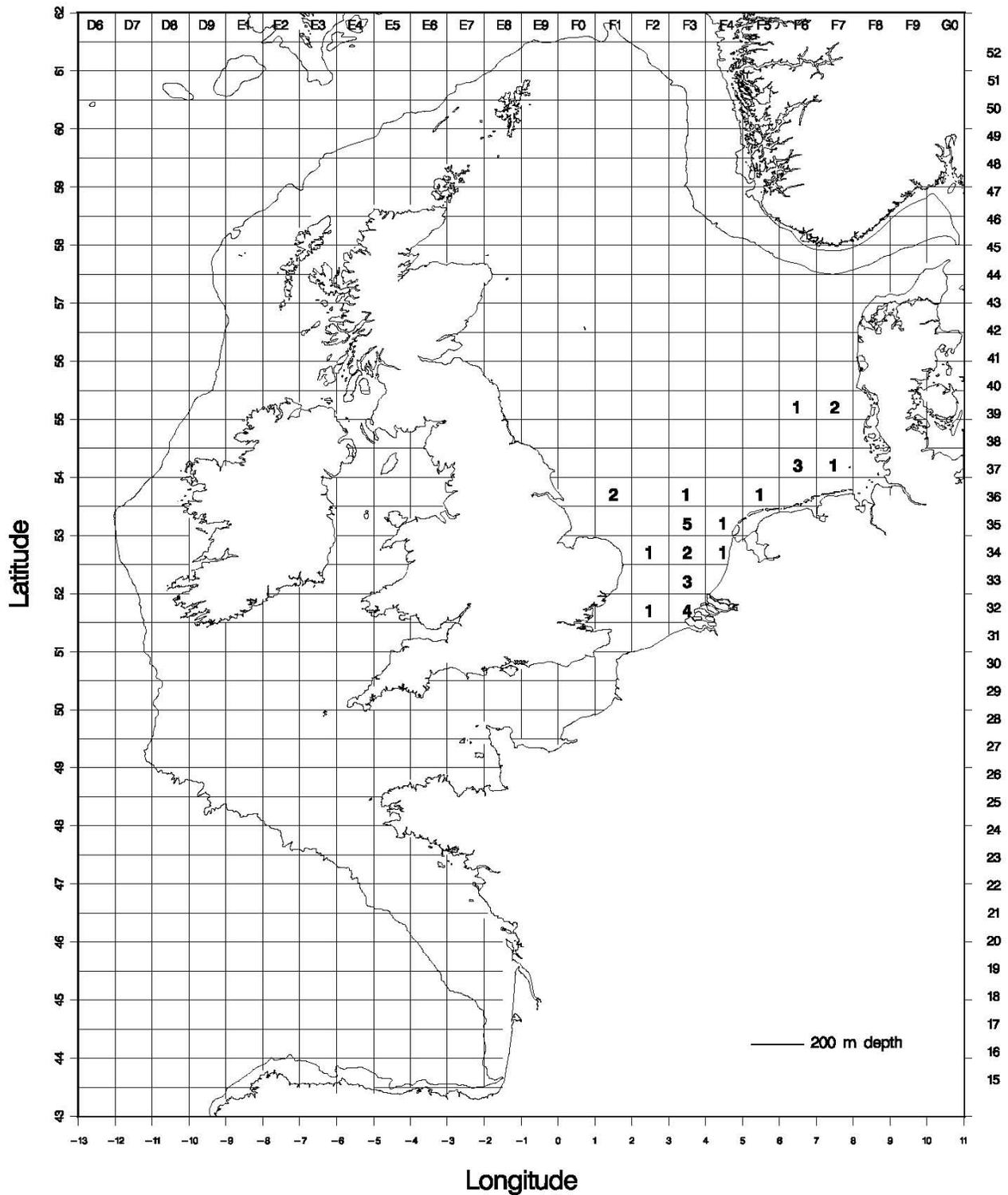


Figure 2b: Sole quarter 2 2003
 Number of age/length samples of commercial catches per ICES rectangle

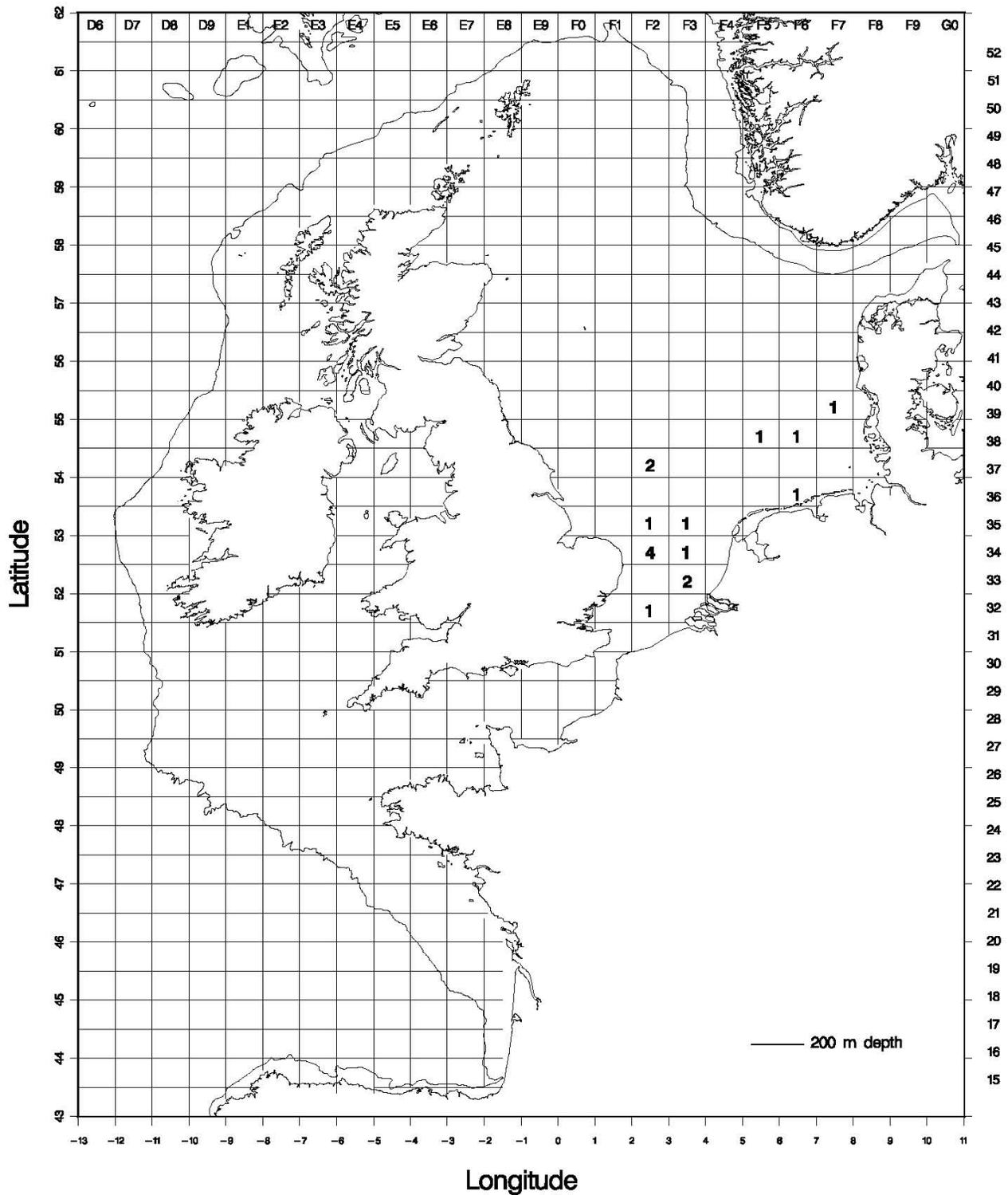


Figure 2c: Sole quarter 3 2003
 Number of age/length samples of commercial catches per ICES rectangle

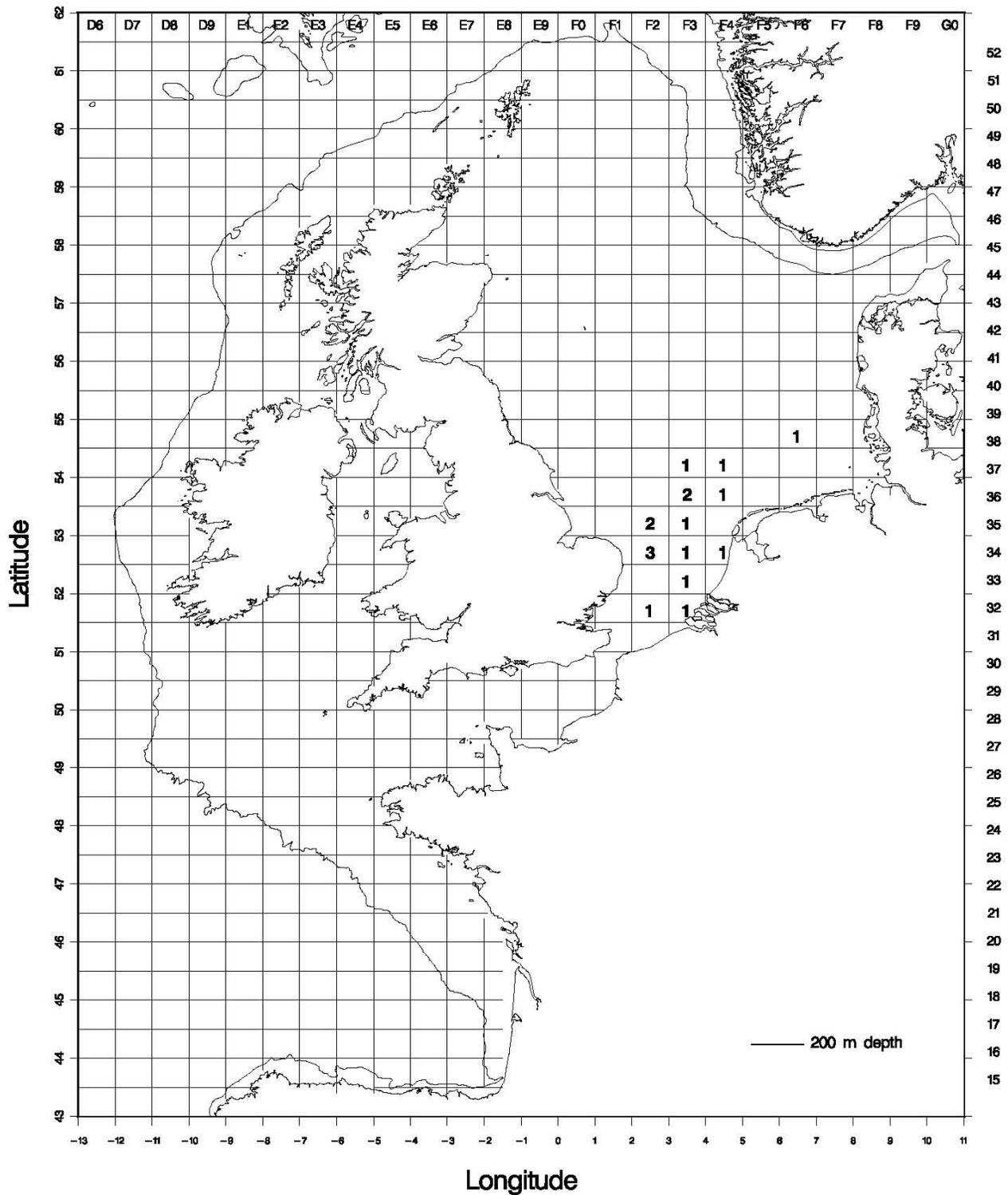


Figure 2d: Sole quarter 4 2003
 Number of age/length samples of commercial catches per ICES rectangle

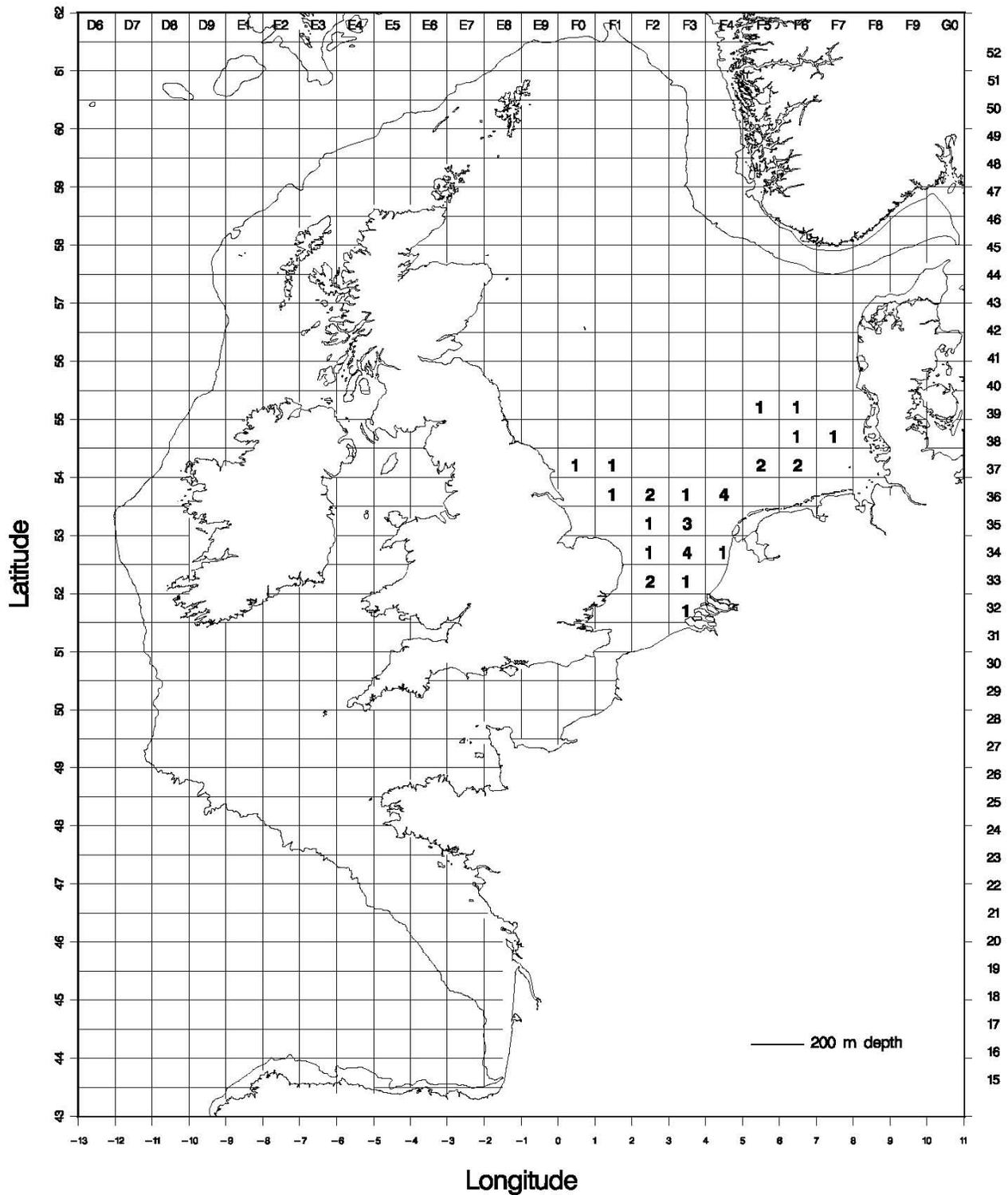


Figure 3a: Plaiice quarter 1 2003
 Number of age/length samples of commercial catches per ICES rectangle

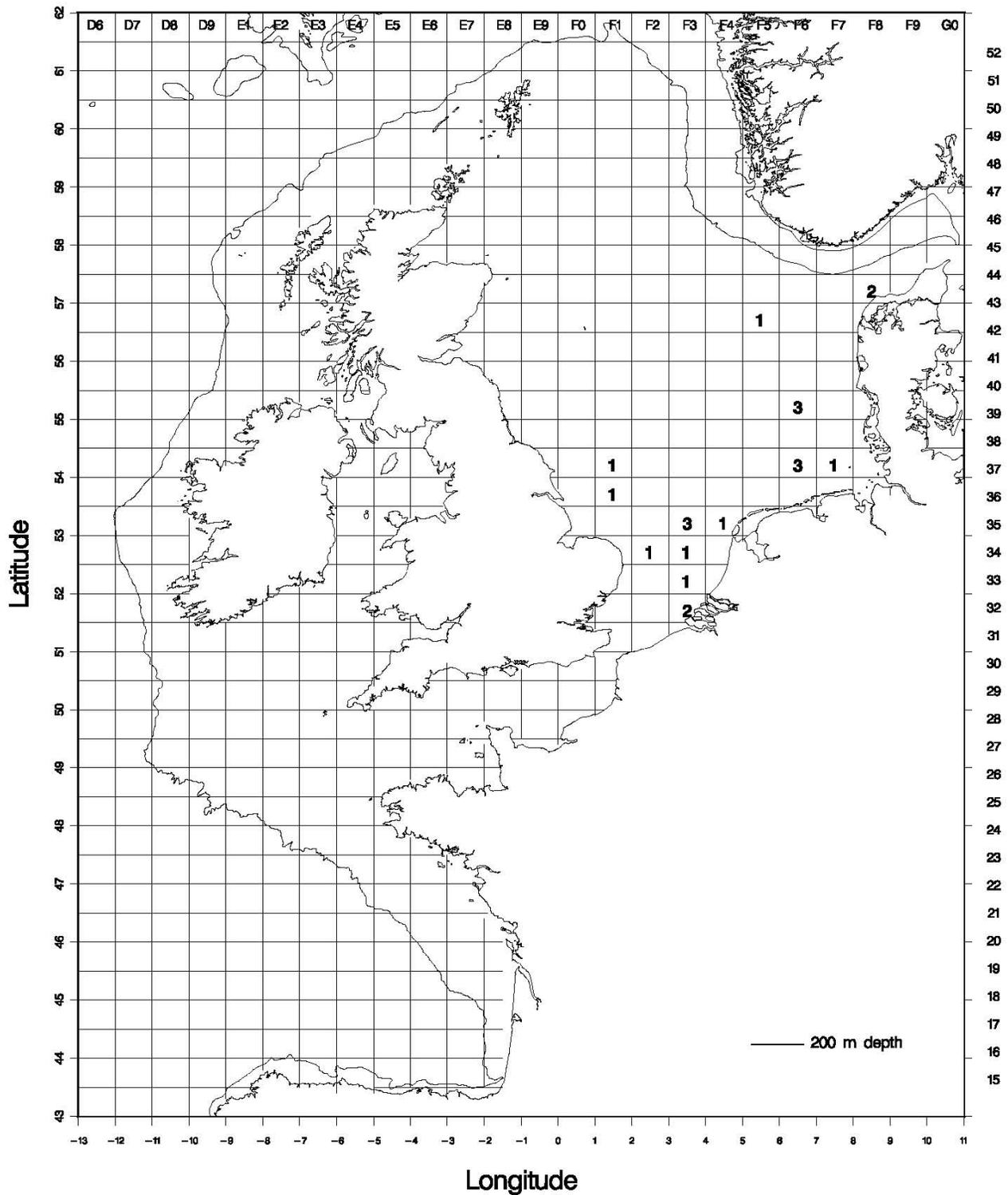


Figure 3b: Plaice quarter 2 2003
 Number of age/length samples of commercial catches per ICES rectangle

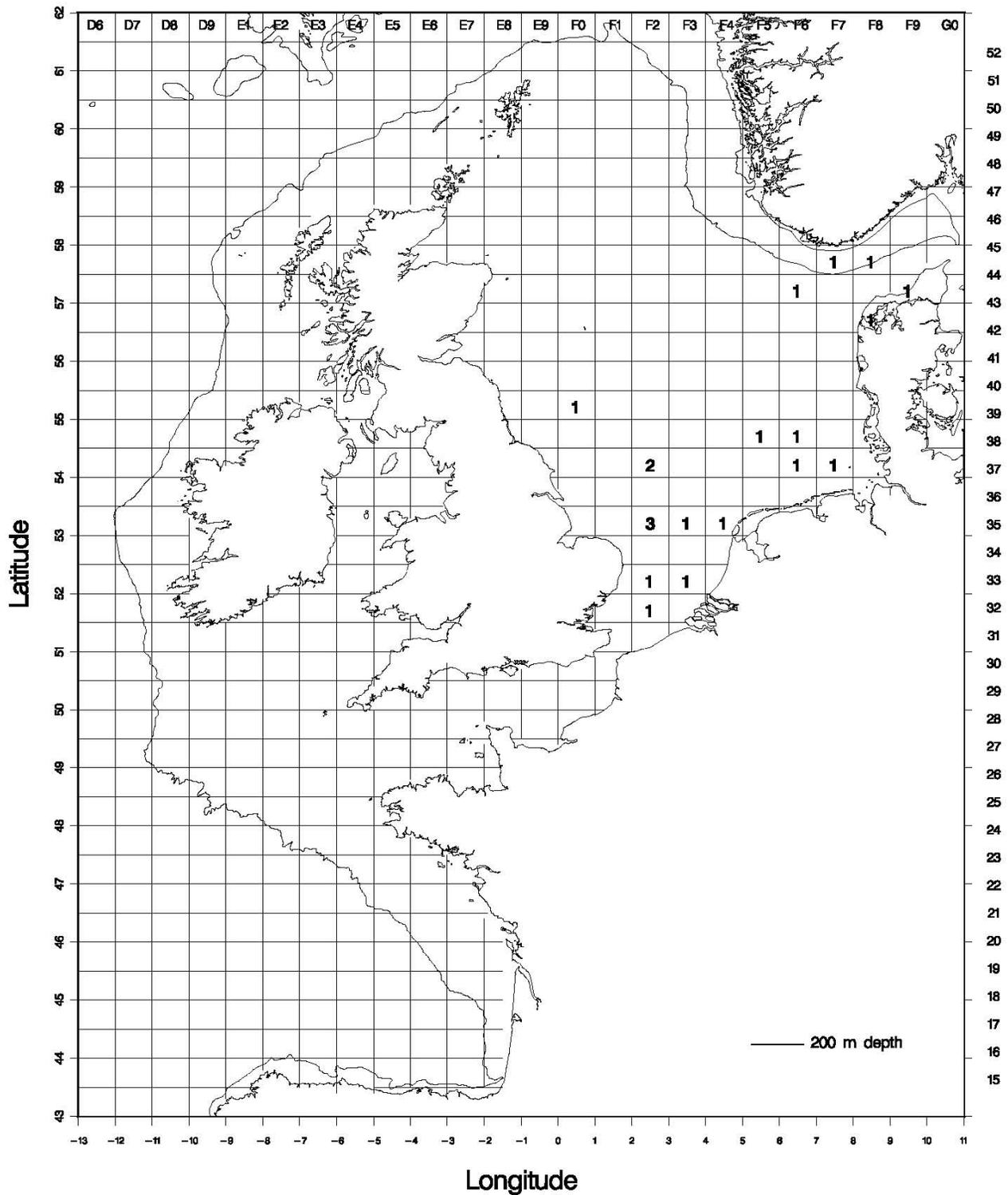


Figure 3c: Plai ce quarter 3 2003
 Number of age/length samples of commercial catches per ICES rectangle

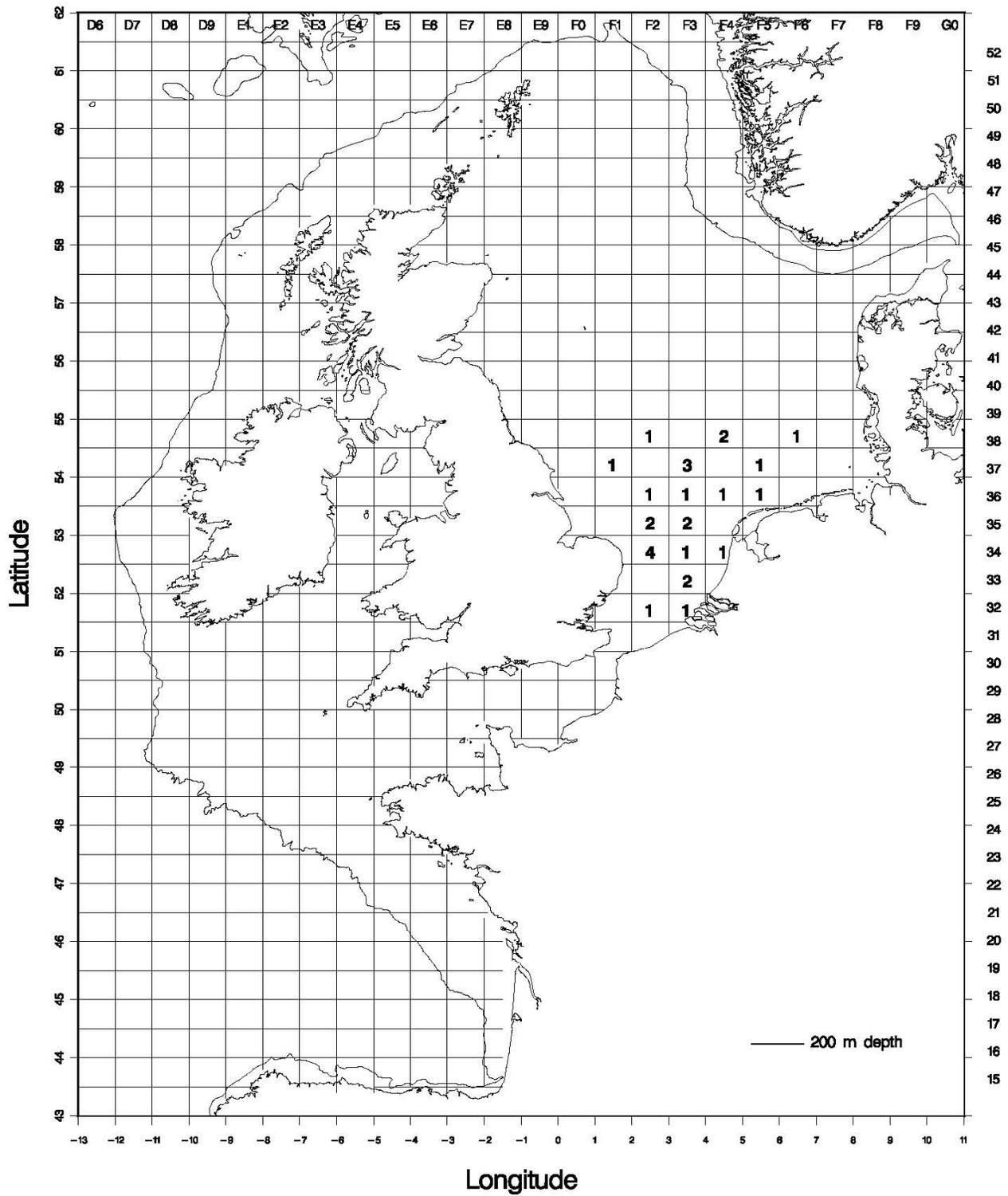


Figure 3d: Plaice quarter 4 2003
 Number of age/length samples of commercial catches per ICES rectangle

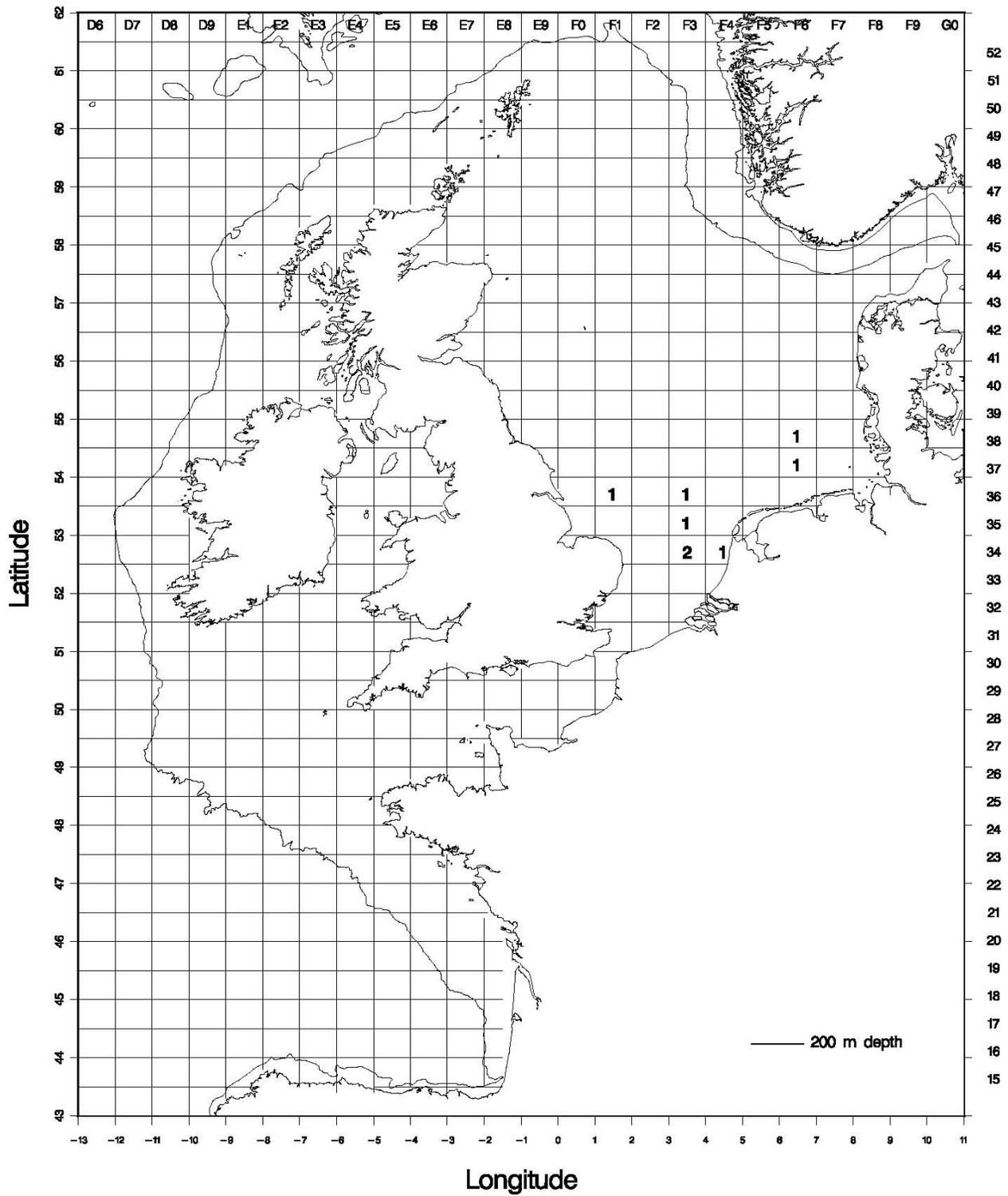


Figure 4a: Turbot quarter 1 2003
 Number of age/length samples of commercial catches per ICES rectangle

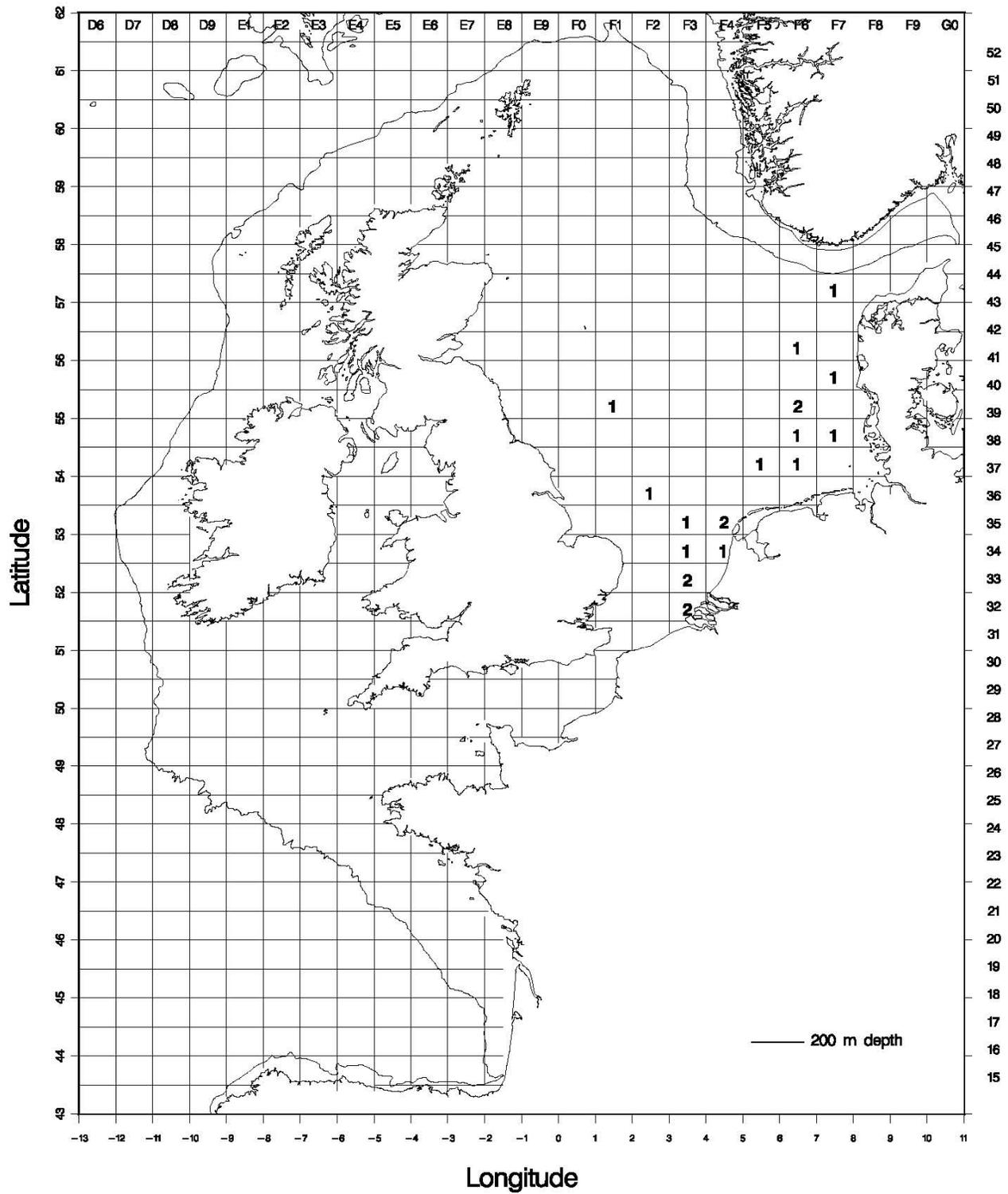


Figure 4b: Turbot quarter 2 2003
 Number of age/length samples of commercial catches per ICES rectangle

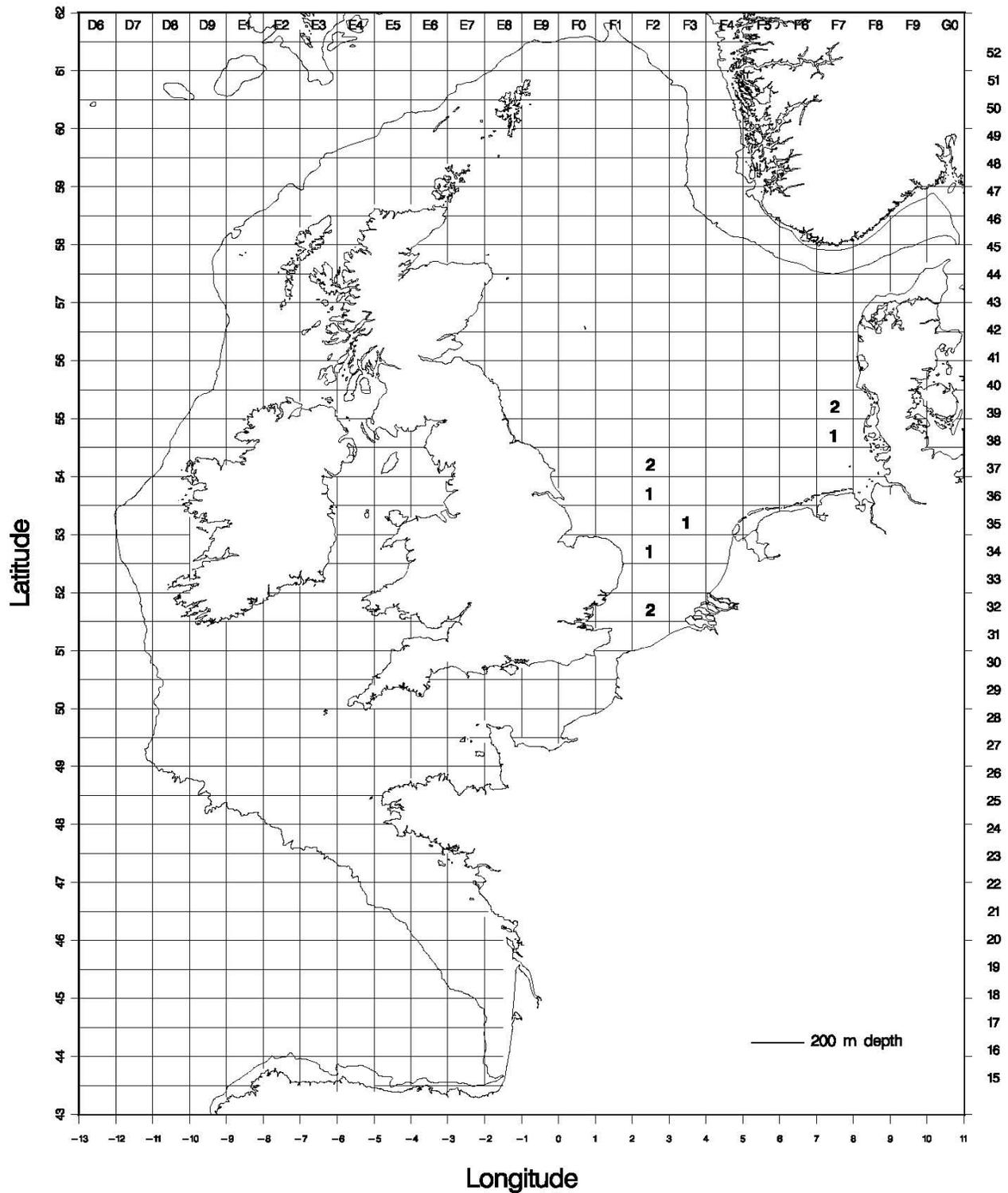


Figure 4c: Turbot quarter 3 2003
 Number of age/length samples of commercial catches per ICES rectangle

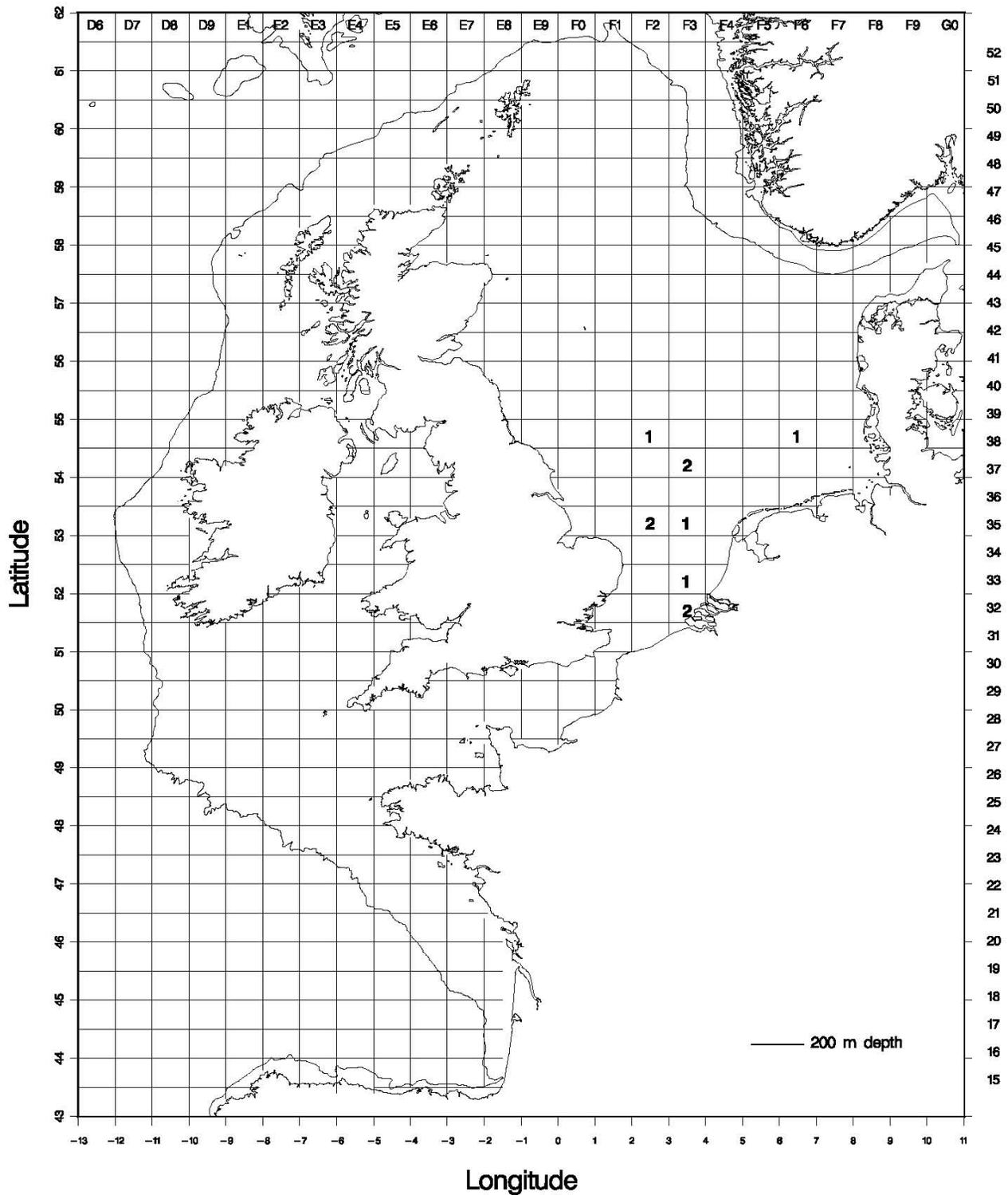


Figure 4d: Turbot quarter 4 2003
 Number of age/length samples of commercial catches per ICES rectangle

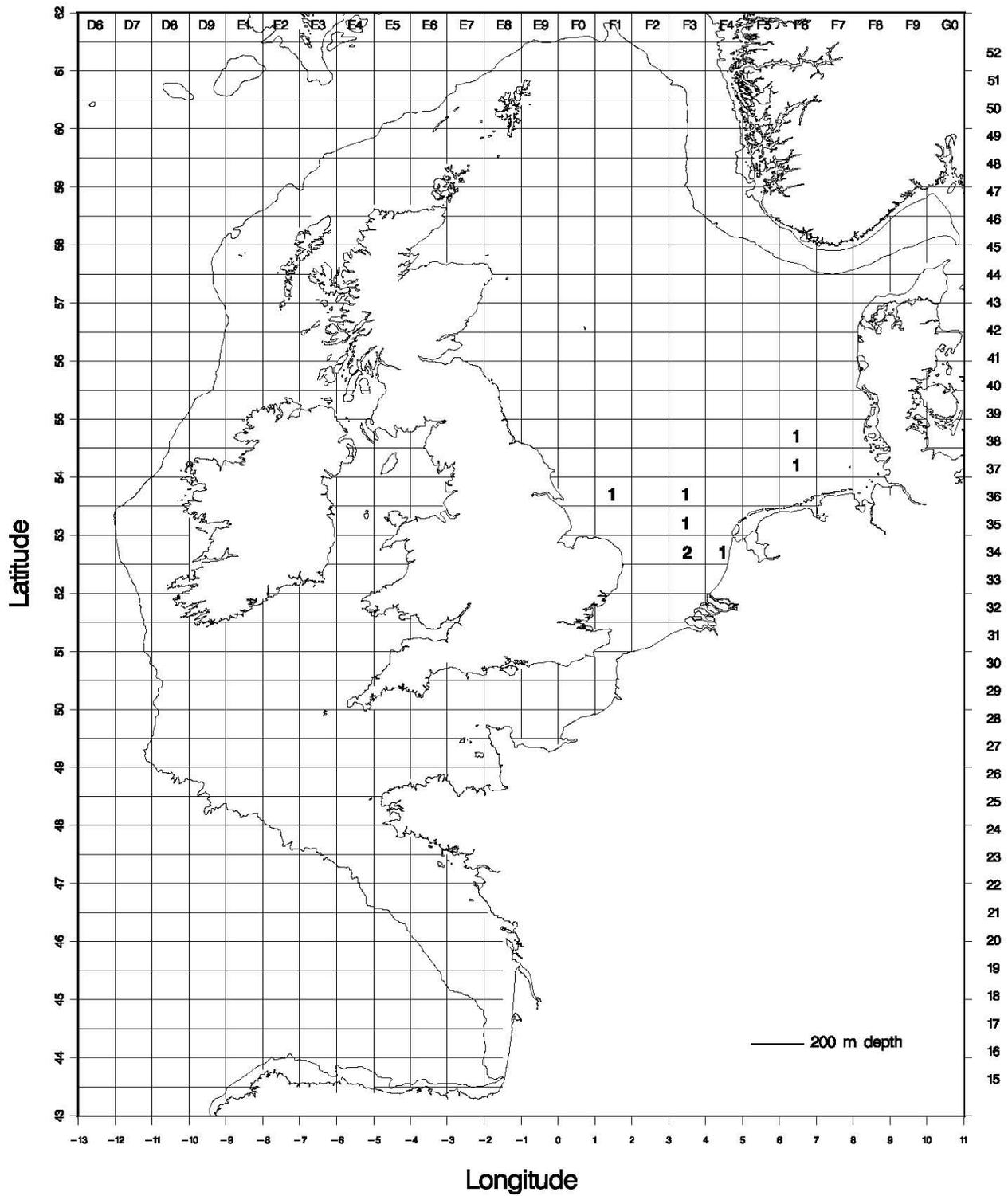


Figure 5a: Brill quarter 1 2003
 Number of age/length samples of commercial catches per ICES rectangle

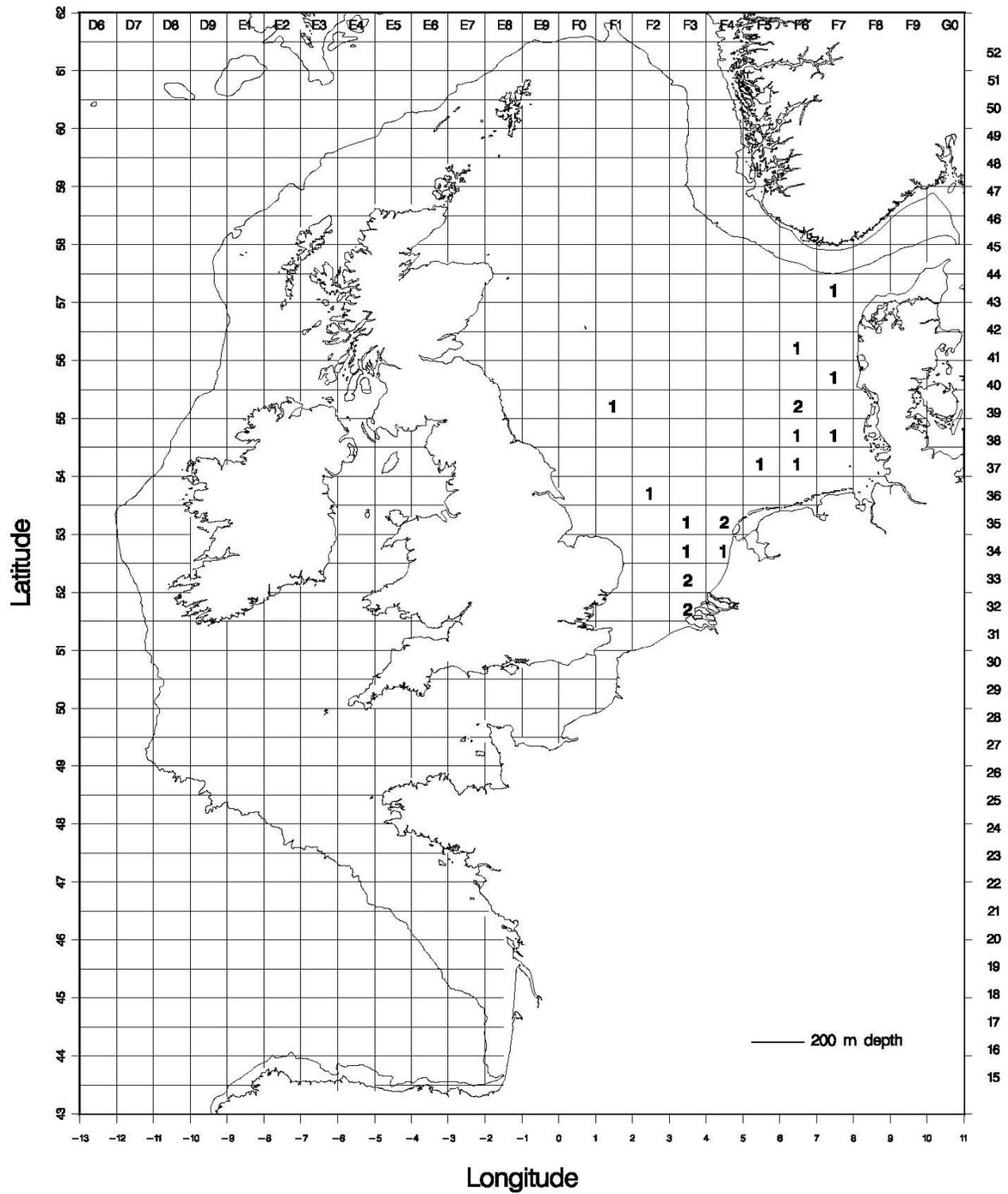


Figure 5b: Brill quarter 2 2003
 Number of age/length samples of commercial catches per ICES rectangle

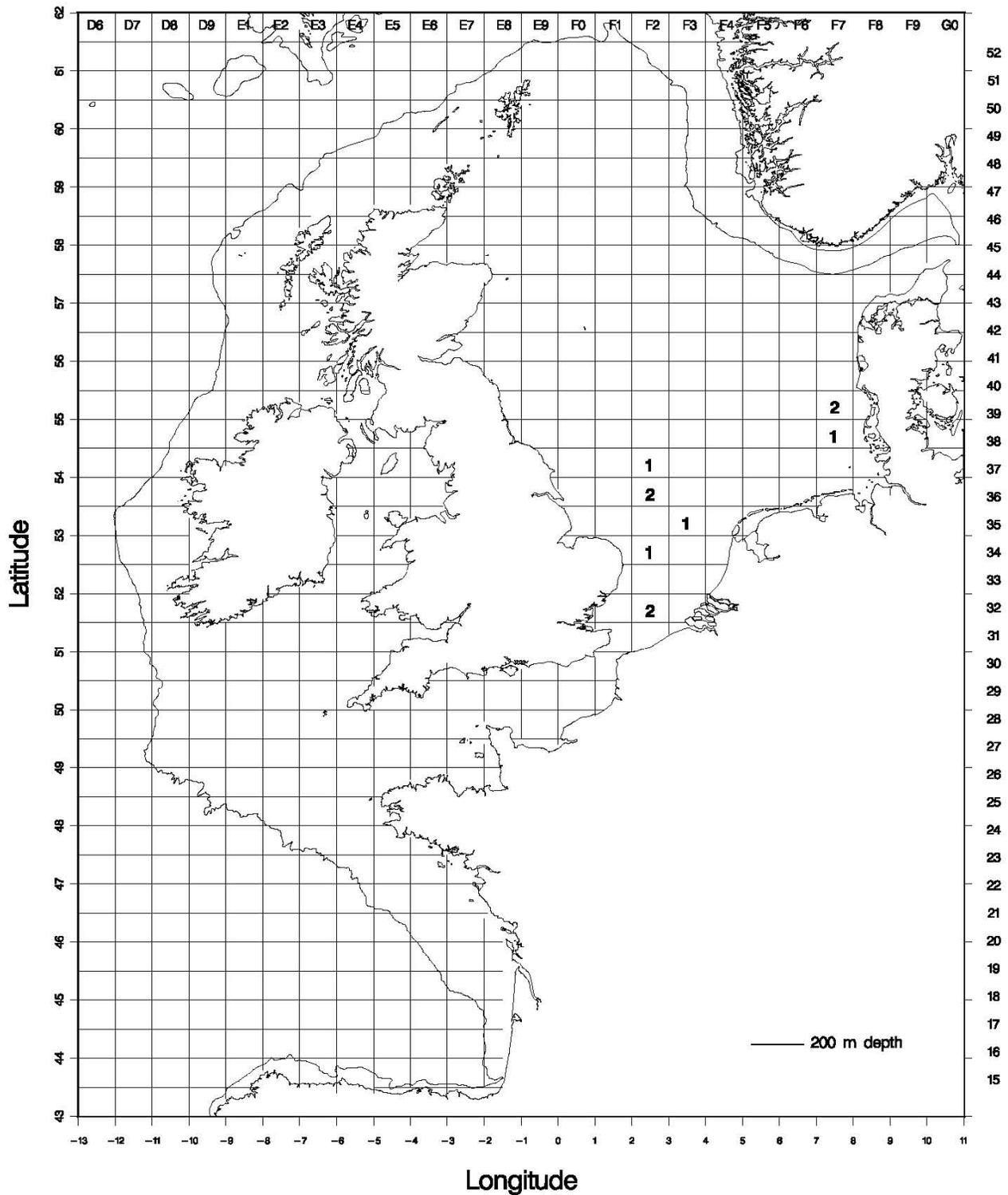


Figure 5c: Brill quarter 3 2003
 Number of age/length samples of commercial catches per ICES rectangle

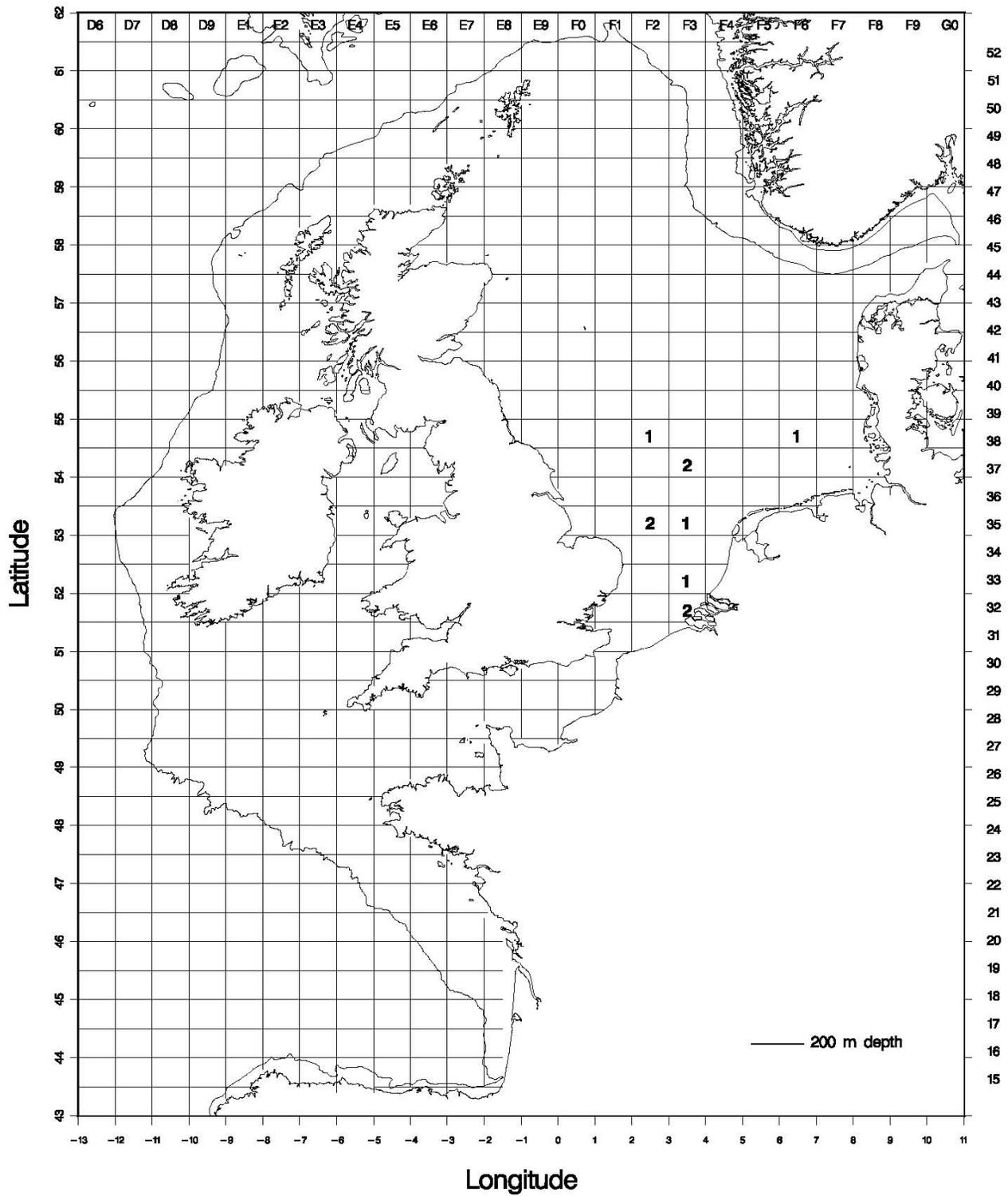


Figure 5d: Brill quarter 4 2003
 Number of age/length samples of commercial catches per ICES rectangle

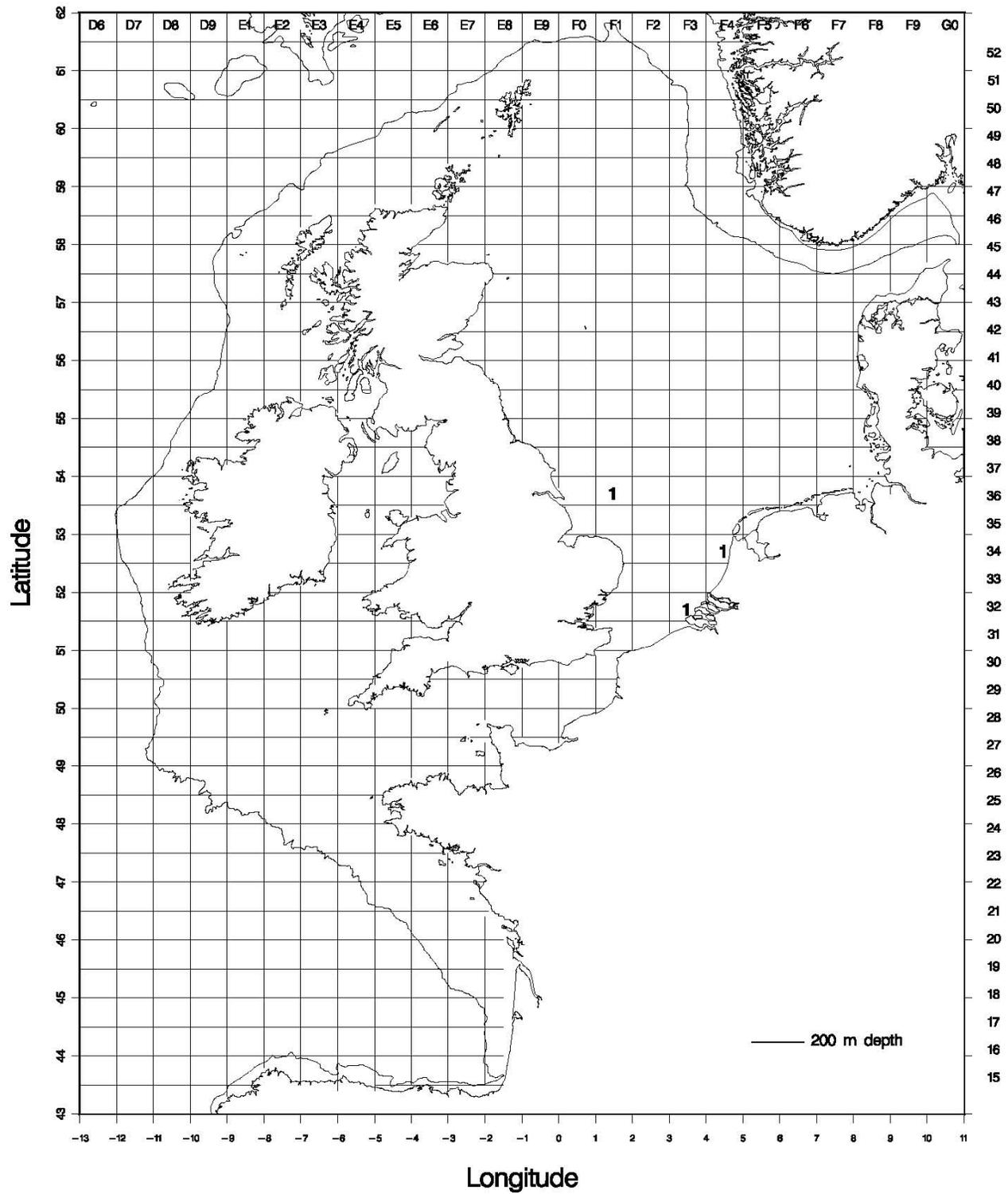


Figure 6a: Dab quarter 1 2003
 Number of age samples of commercial catches per ICES rectangle

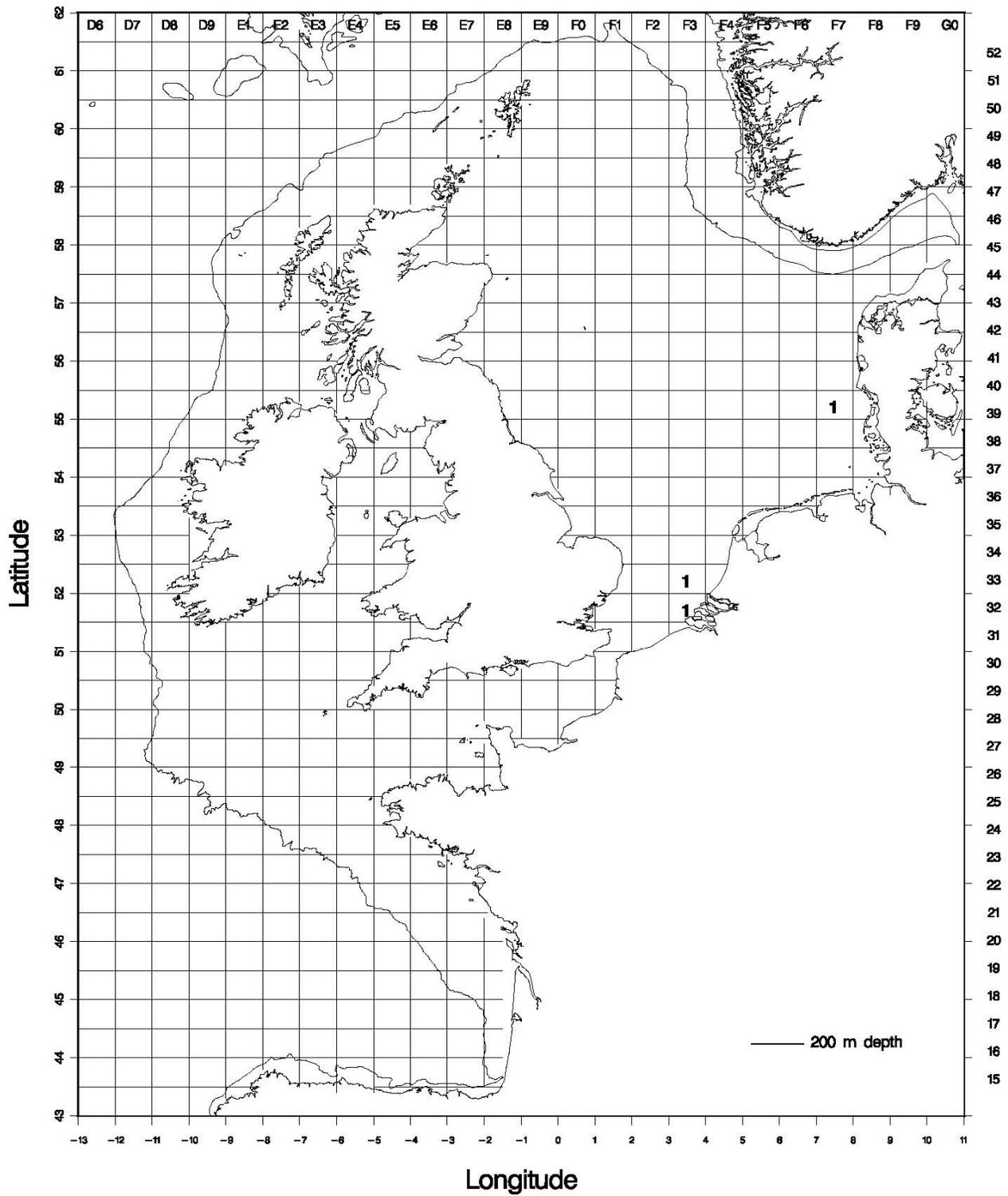


Figure 6b: Dab quarter 2 2003
 Number of age samples of commercial catches per ICES rectangle

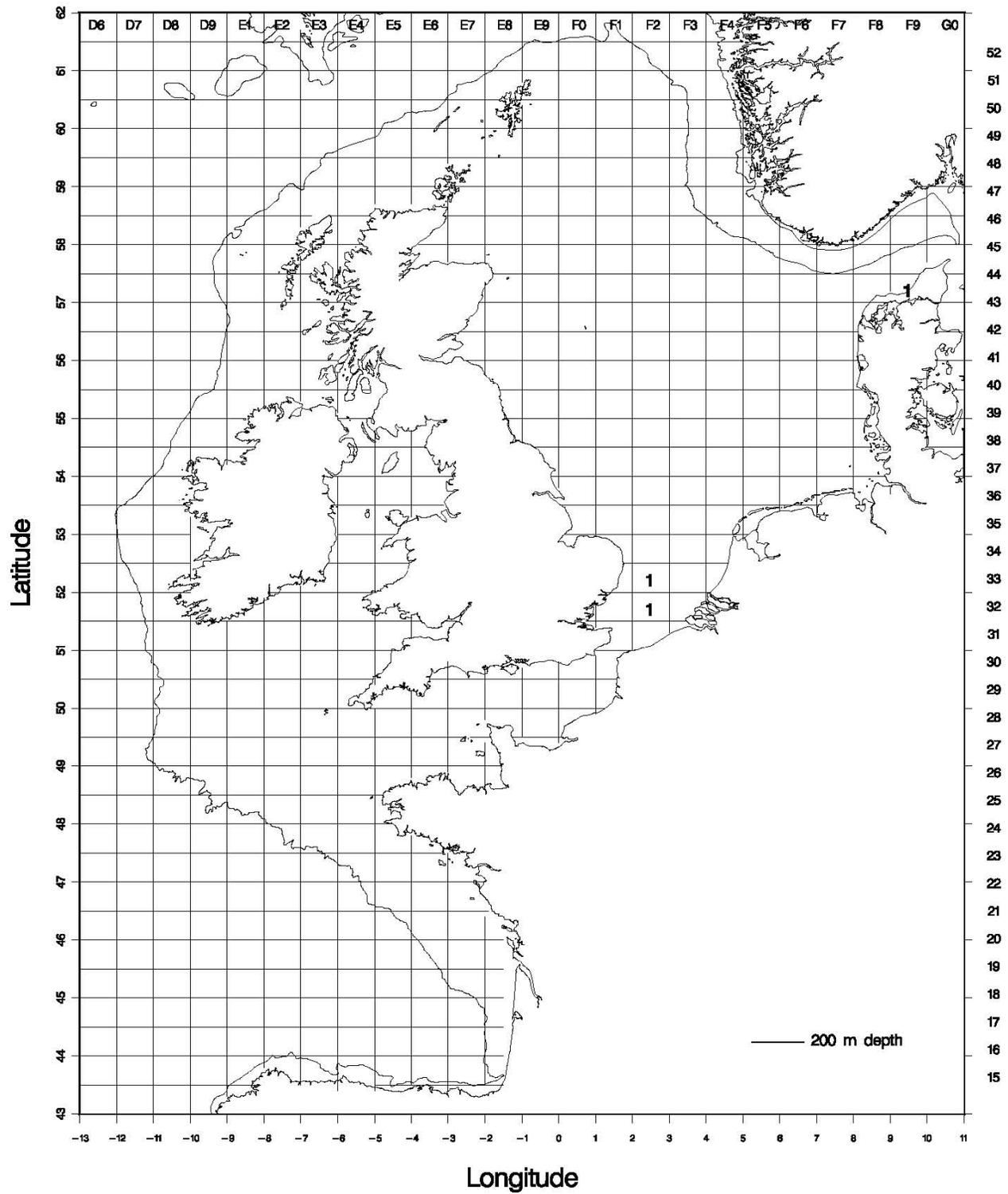


Figure 6c: Dab quarter 3 2003
 Number of age samples of commercial catches per ICES rectangle

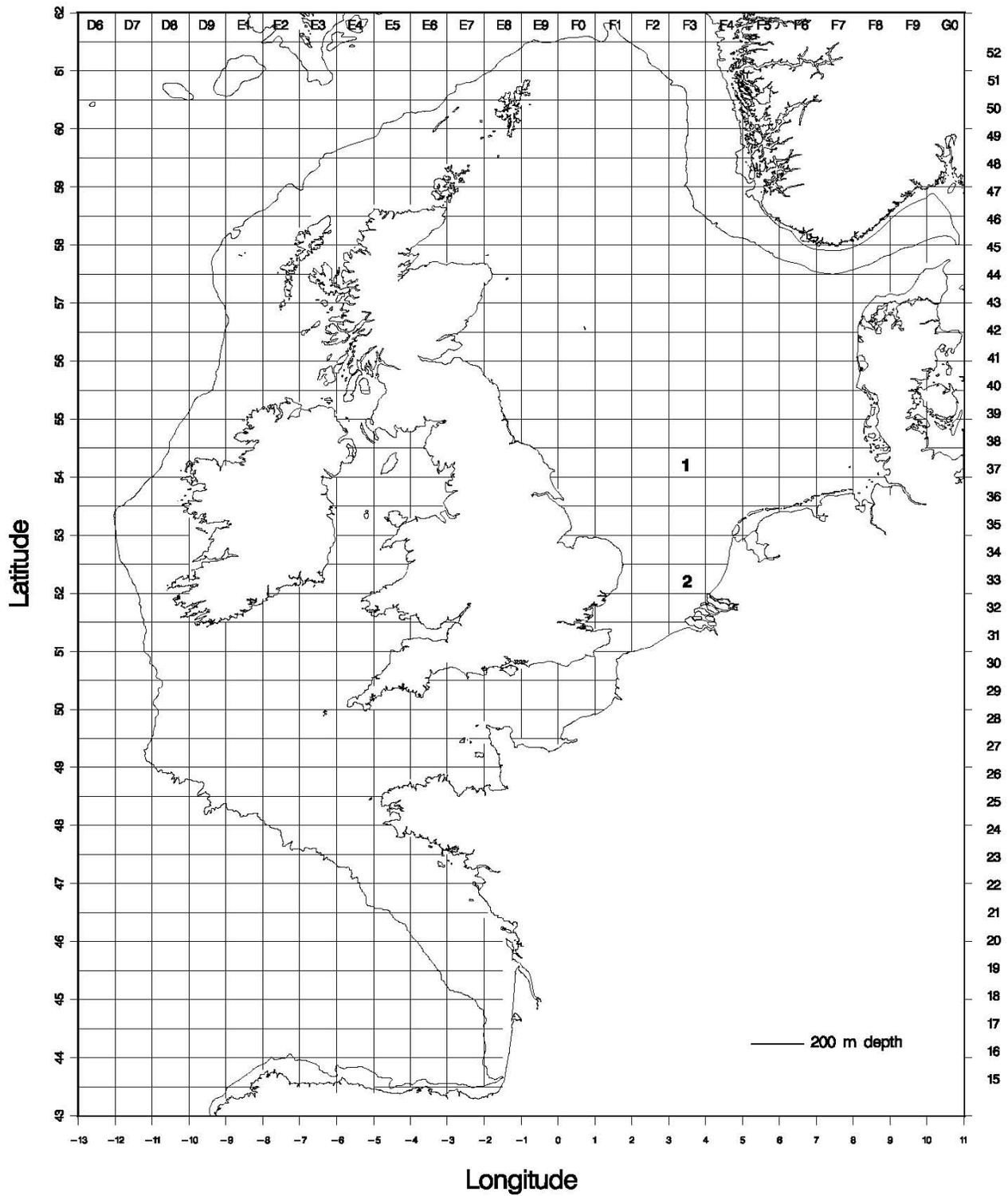


Figure 6d: Dab quarter 4 2003
 Number of age samples of commercial catches per ICES rectangle

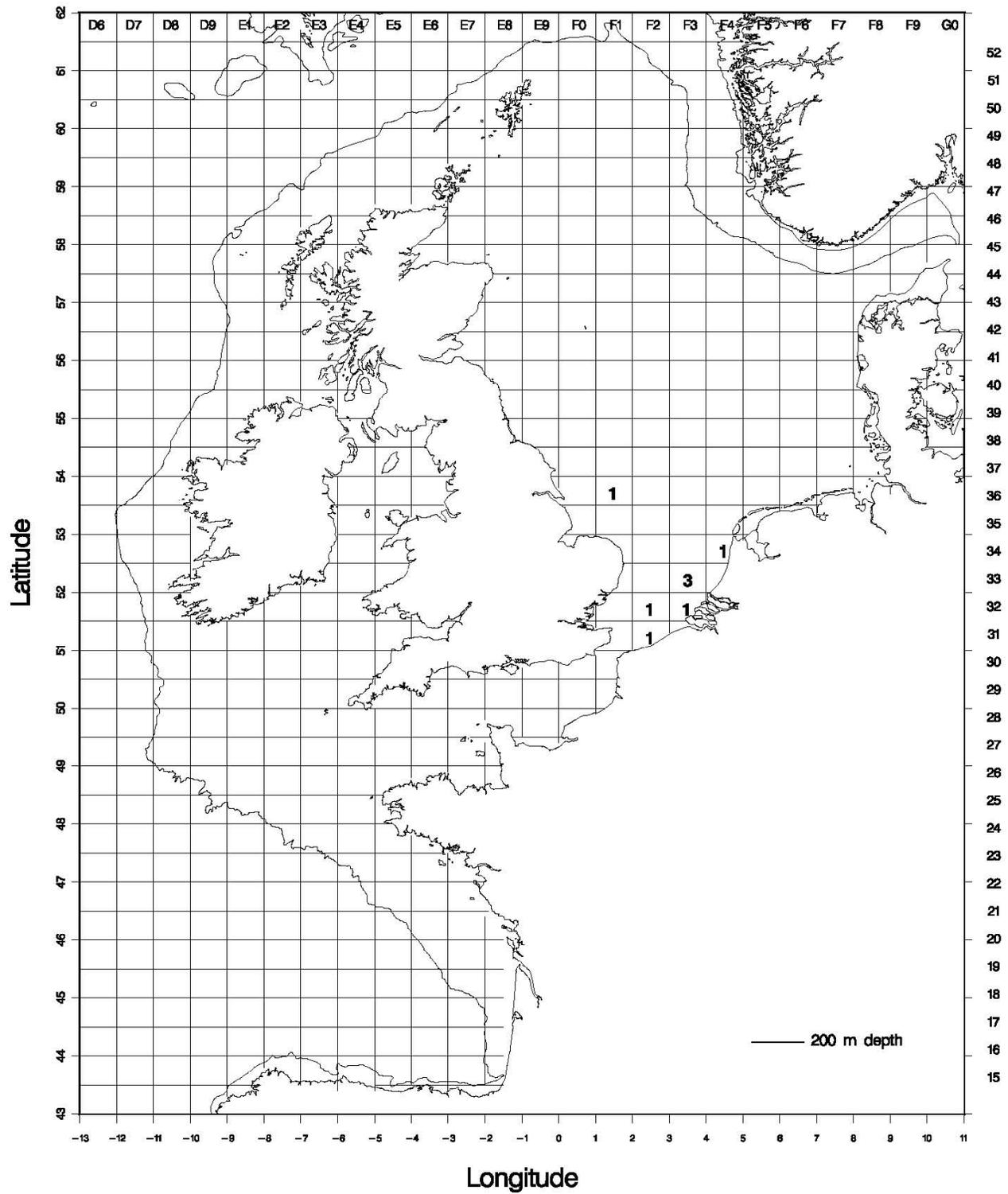


Figure 6e: Dab quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

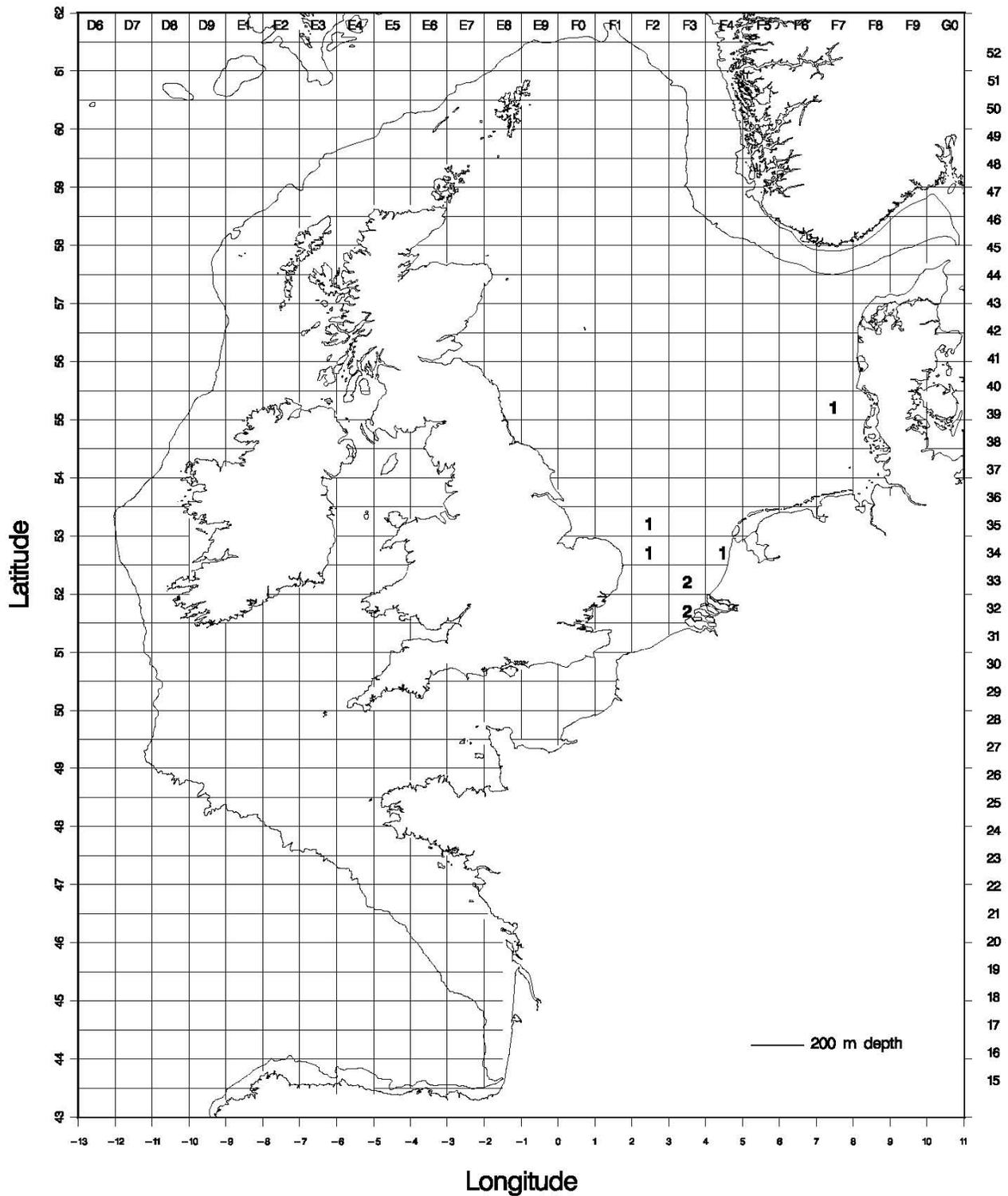


Figure 6f: Dab quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

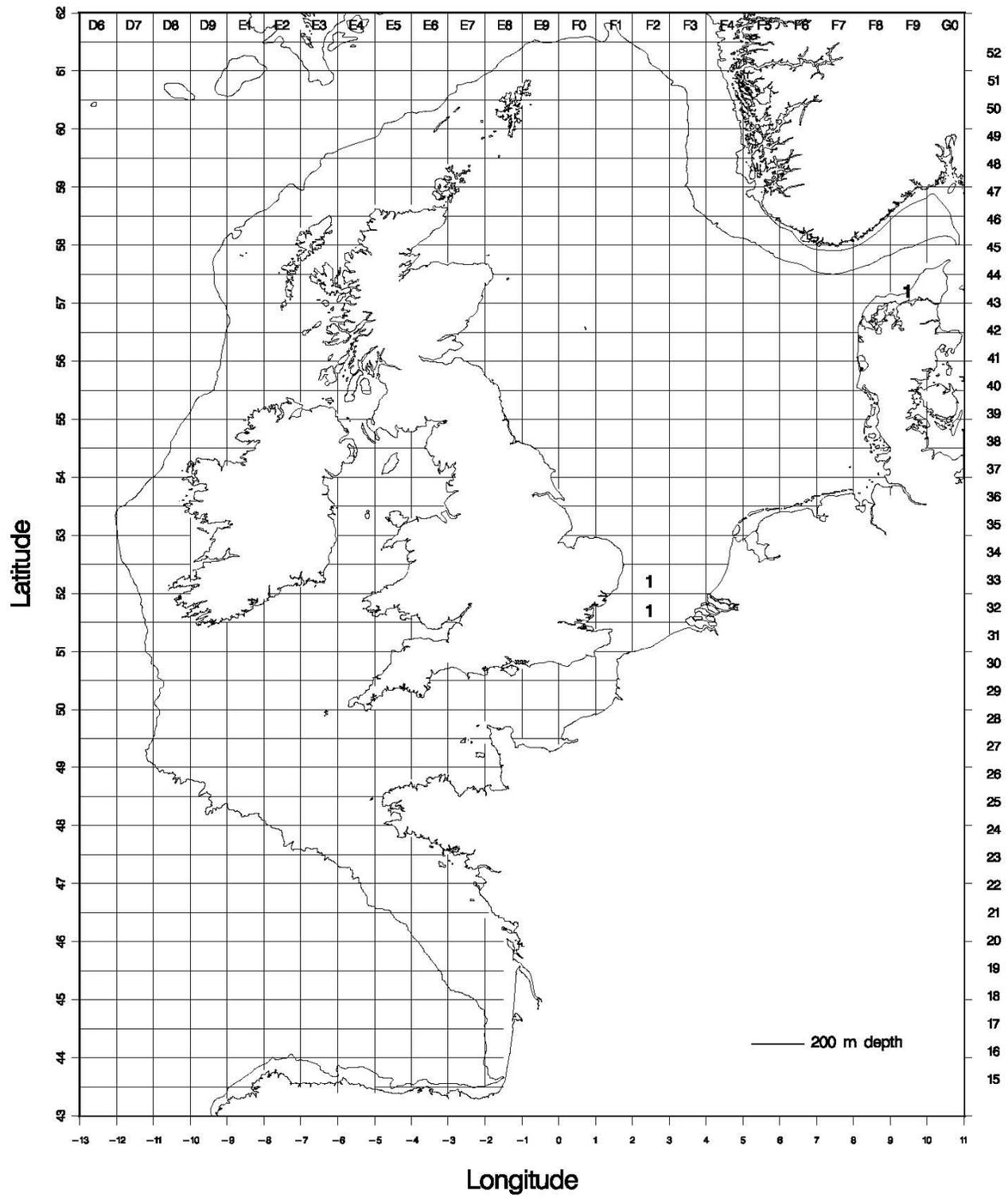


Figure 6g: Dab quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

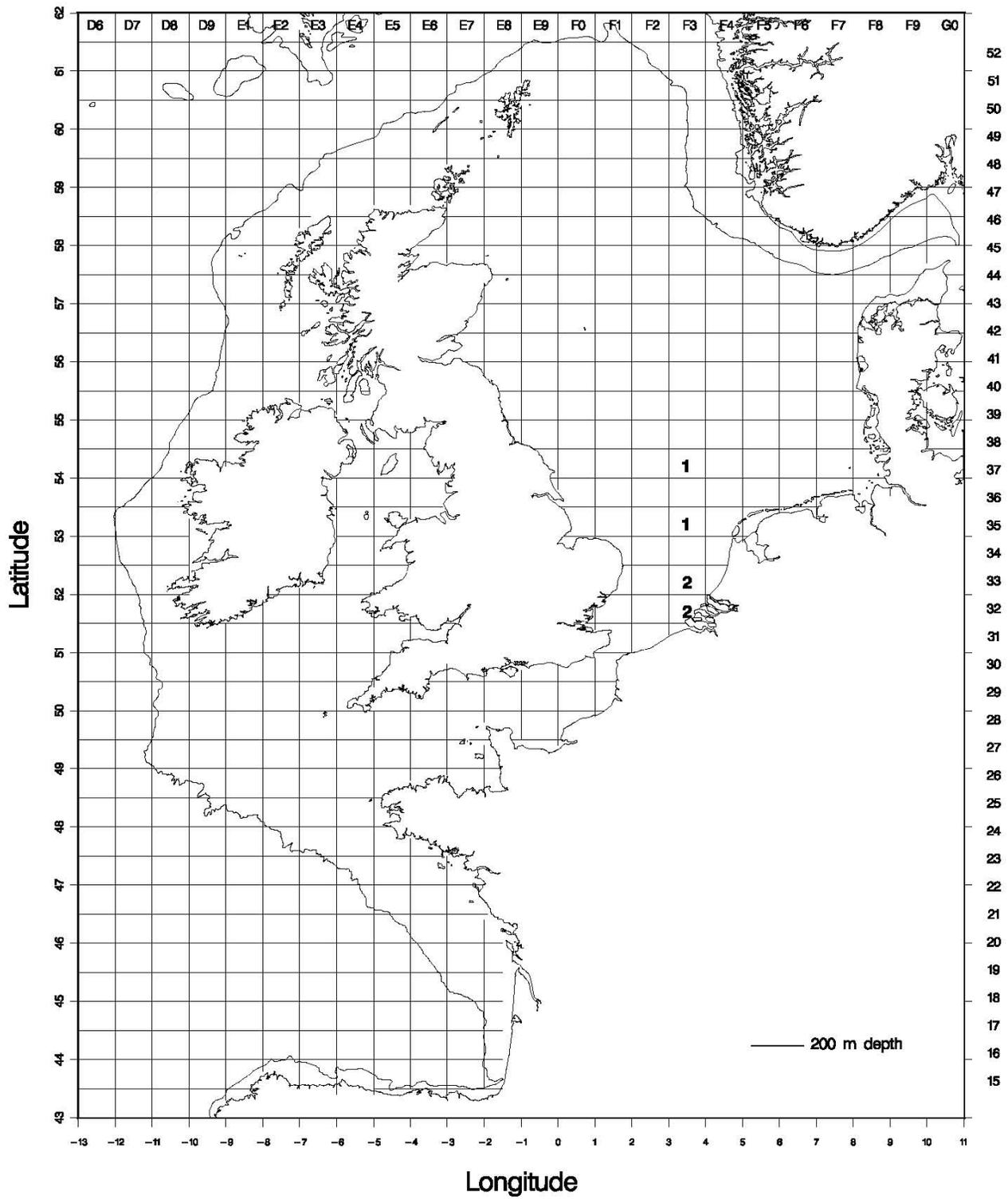


Figure 6h: Dab quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

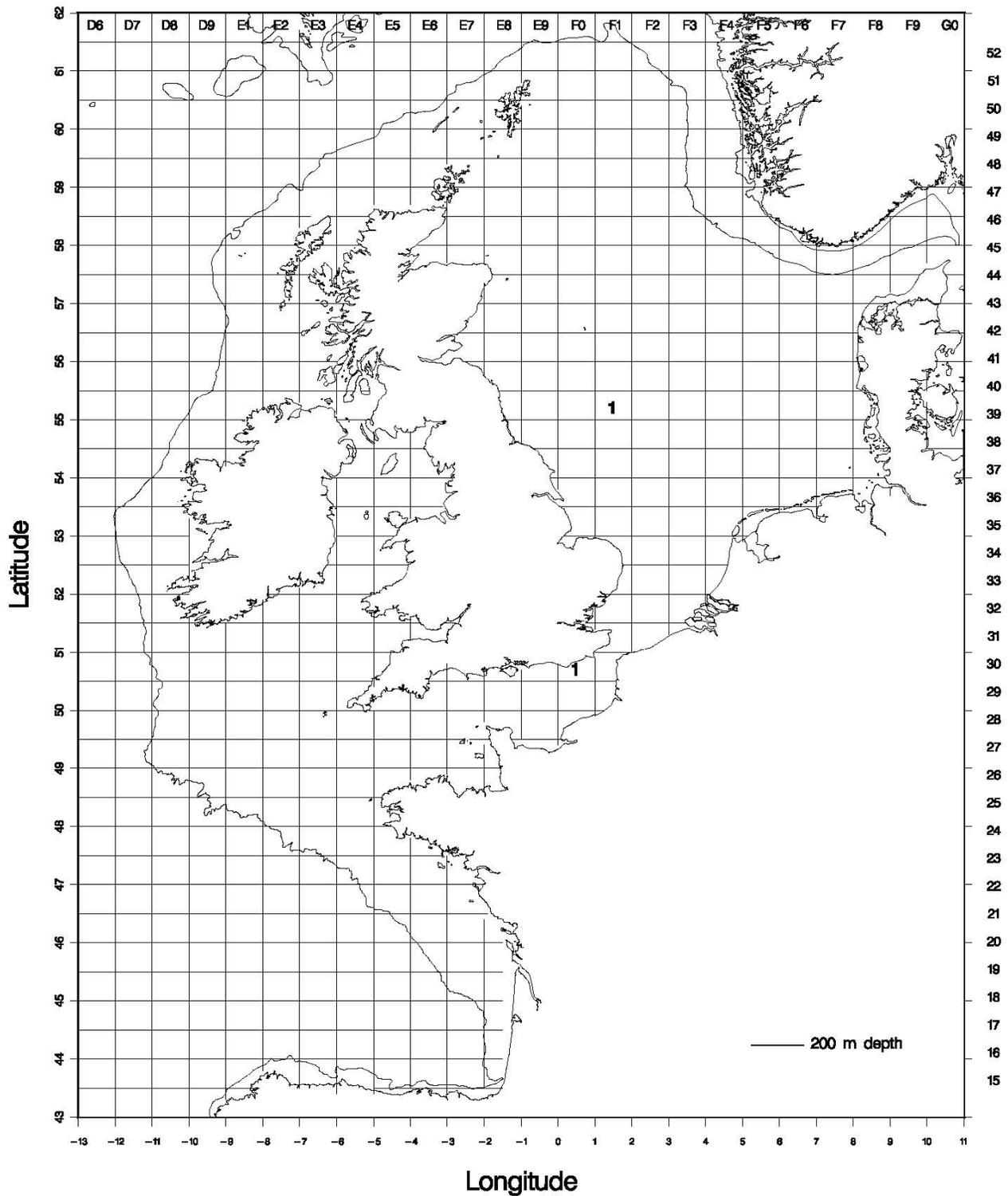


Figure 7a: Lemon sole quarter 1 2003
 Number of age/length samples of commercial catches per ICES rectangle

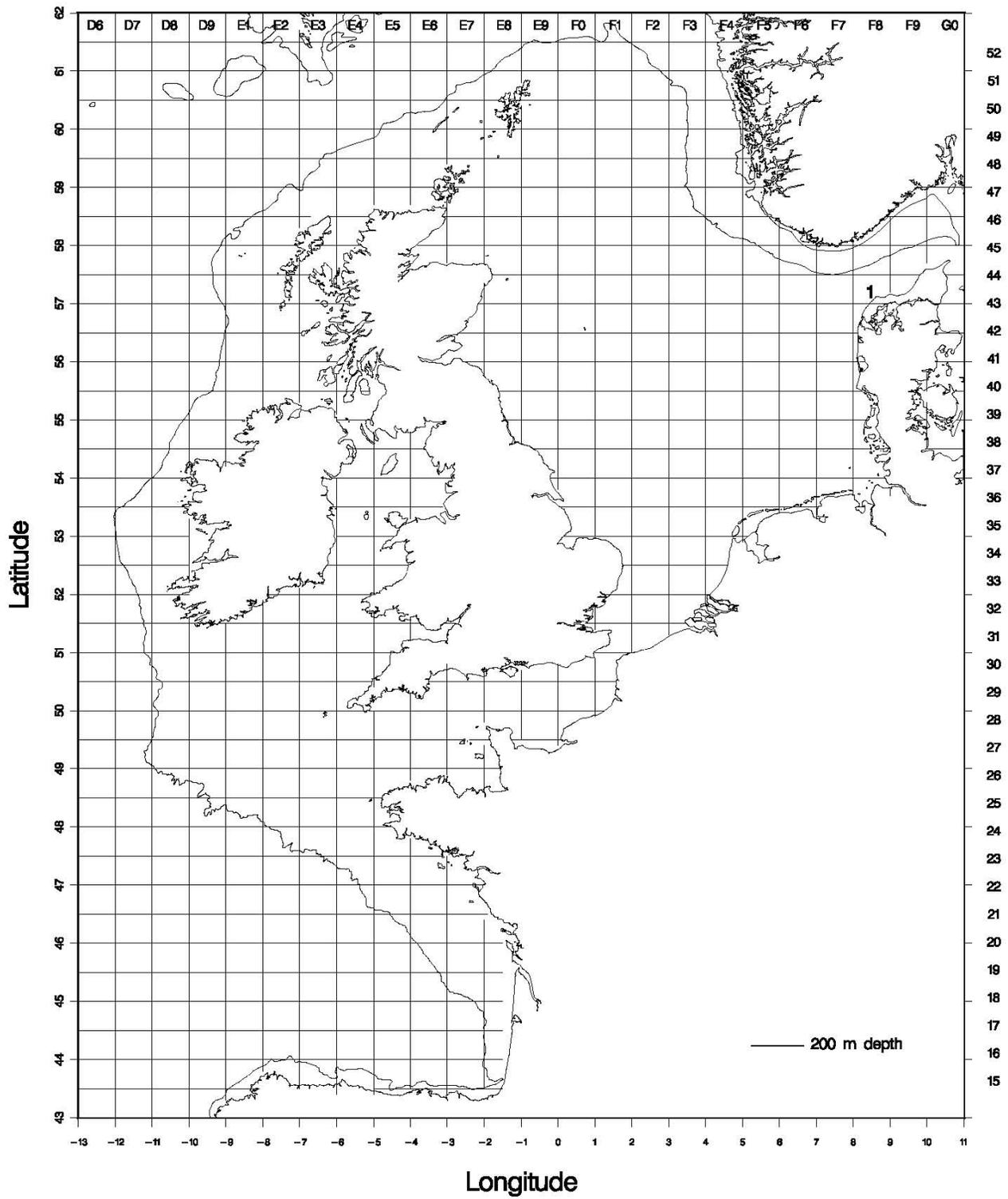


Figure 7b: Lemon sole quarter 2 2003
 Number of age/length samples of commercial catches per ICES rectangle

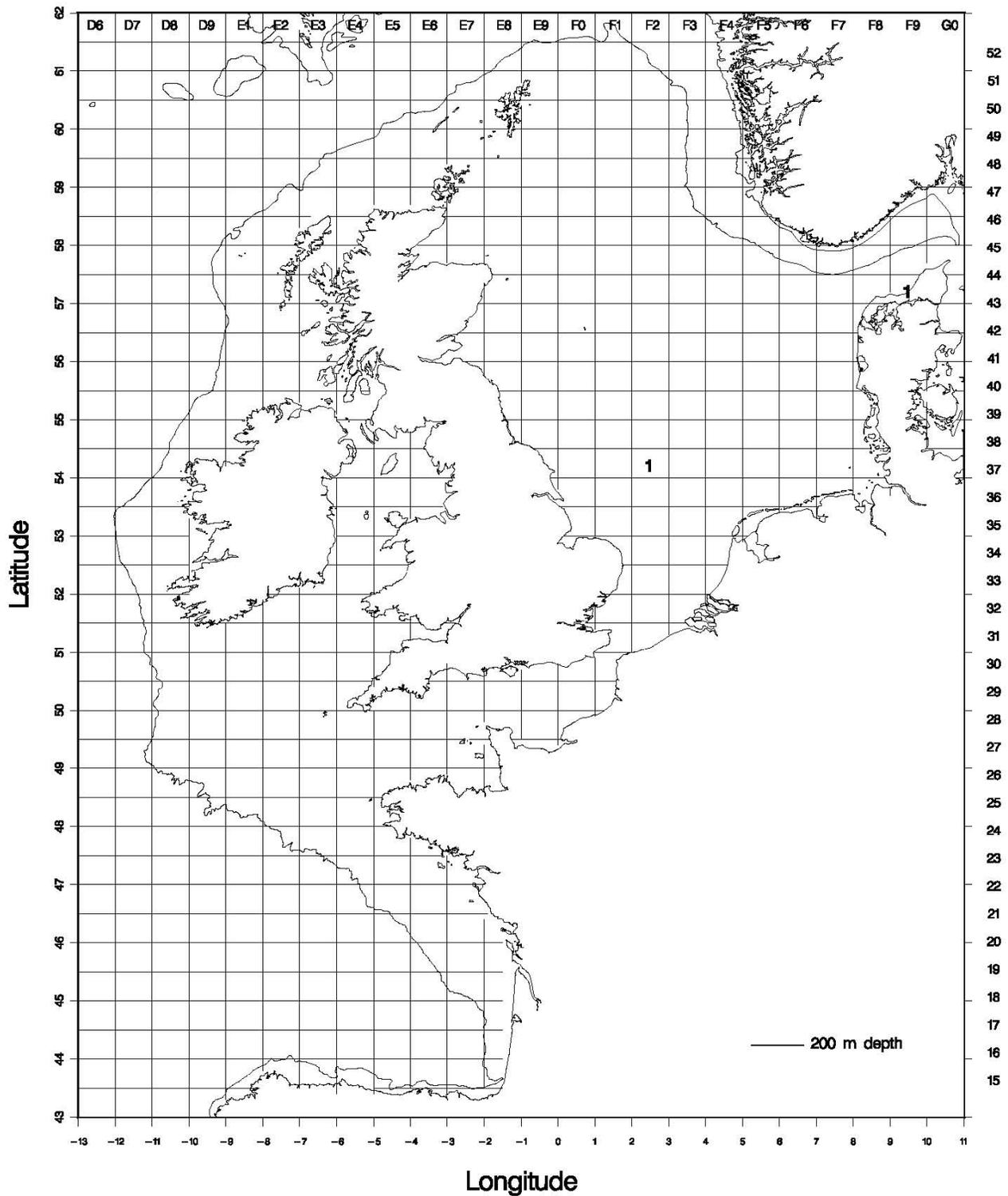


Figure 7c: Lemon sole quarter 3 2003
 Number of age/length samples of commercial catches per ICES rectangle

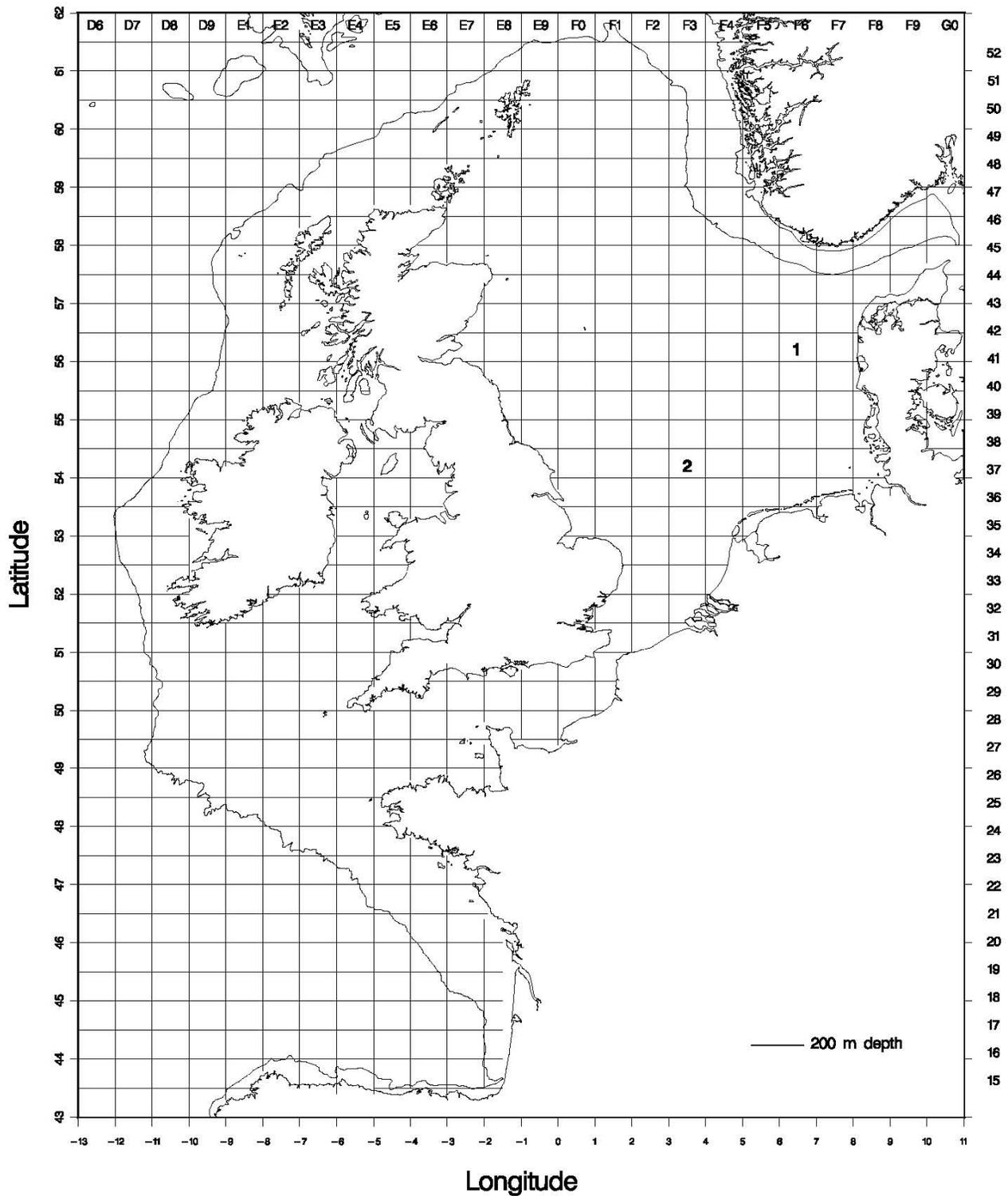


Figure 7d: Lemon sole quarter 4 2003
 Number of age/length samples of commercial catches per ICES rectangle

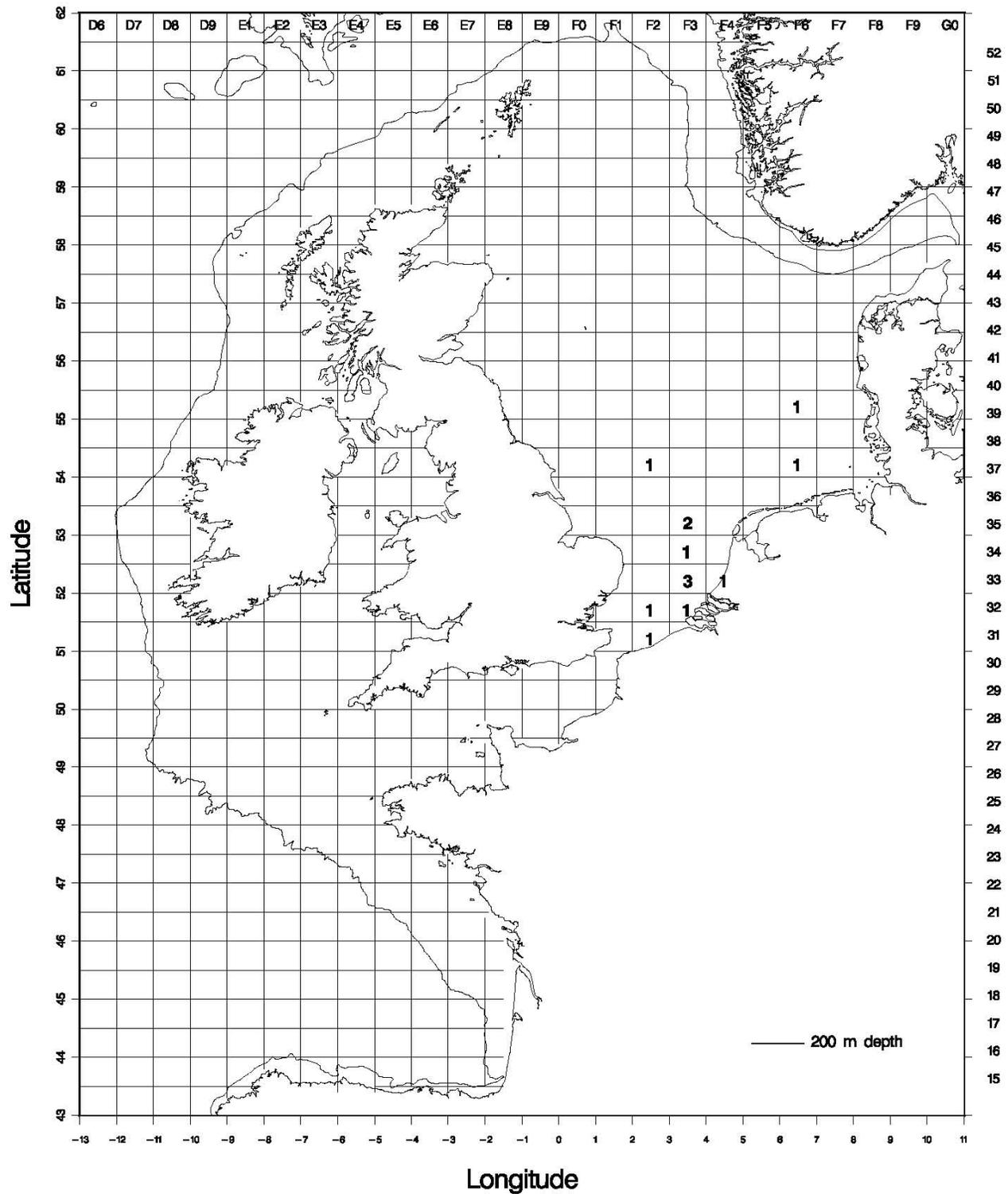


Figure 8a: Cod quarter 1 2003
 Number of age samples of commercial catches per ICES rectangle

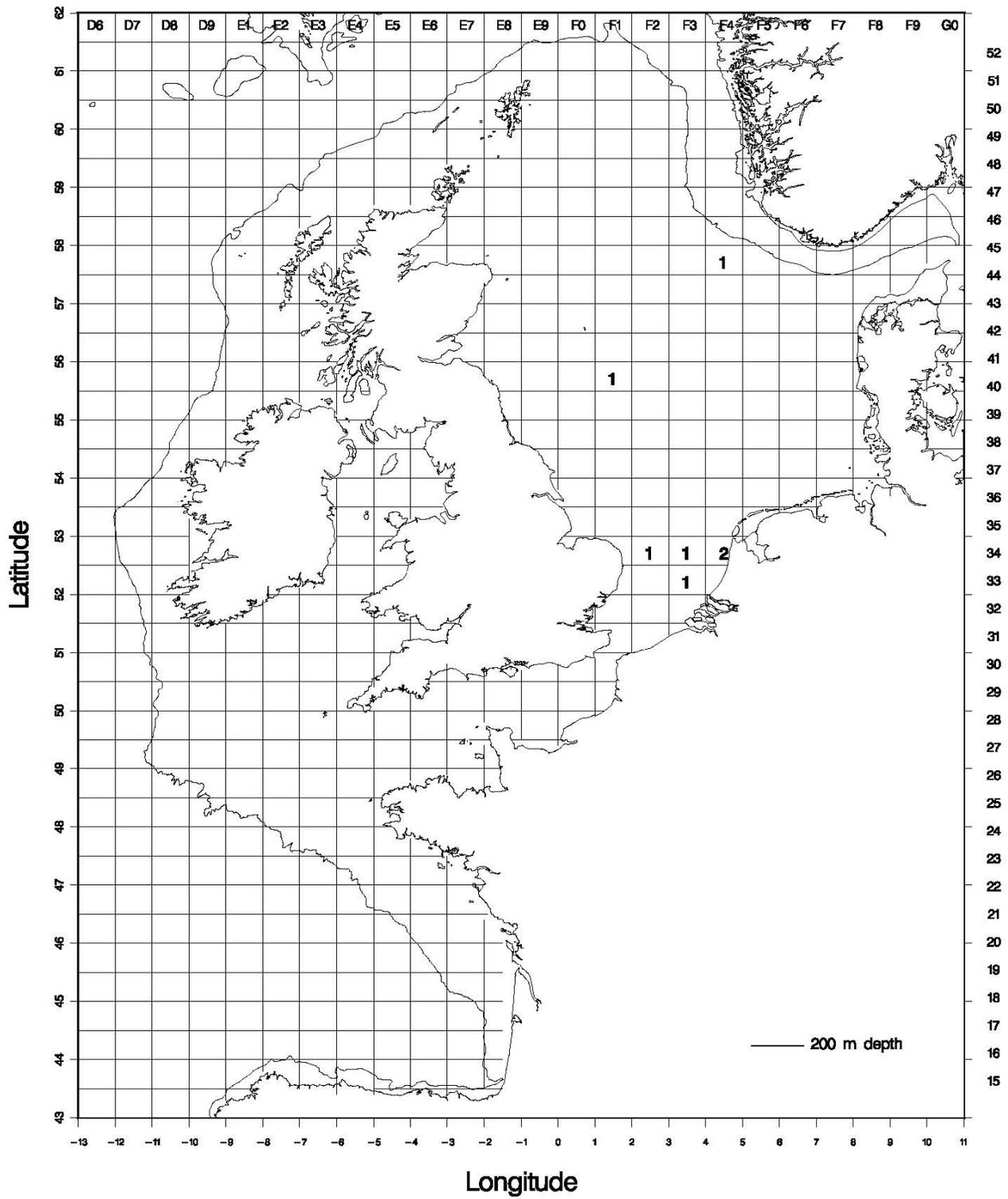


Figure 8b: Cod quarter 2 2003
 Number of age samples of commercial catches per ICES rectangle

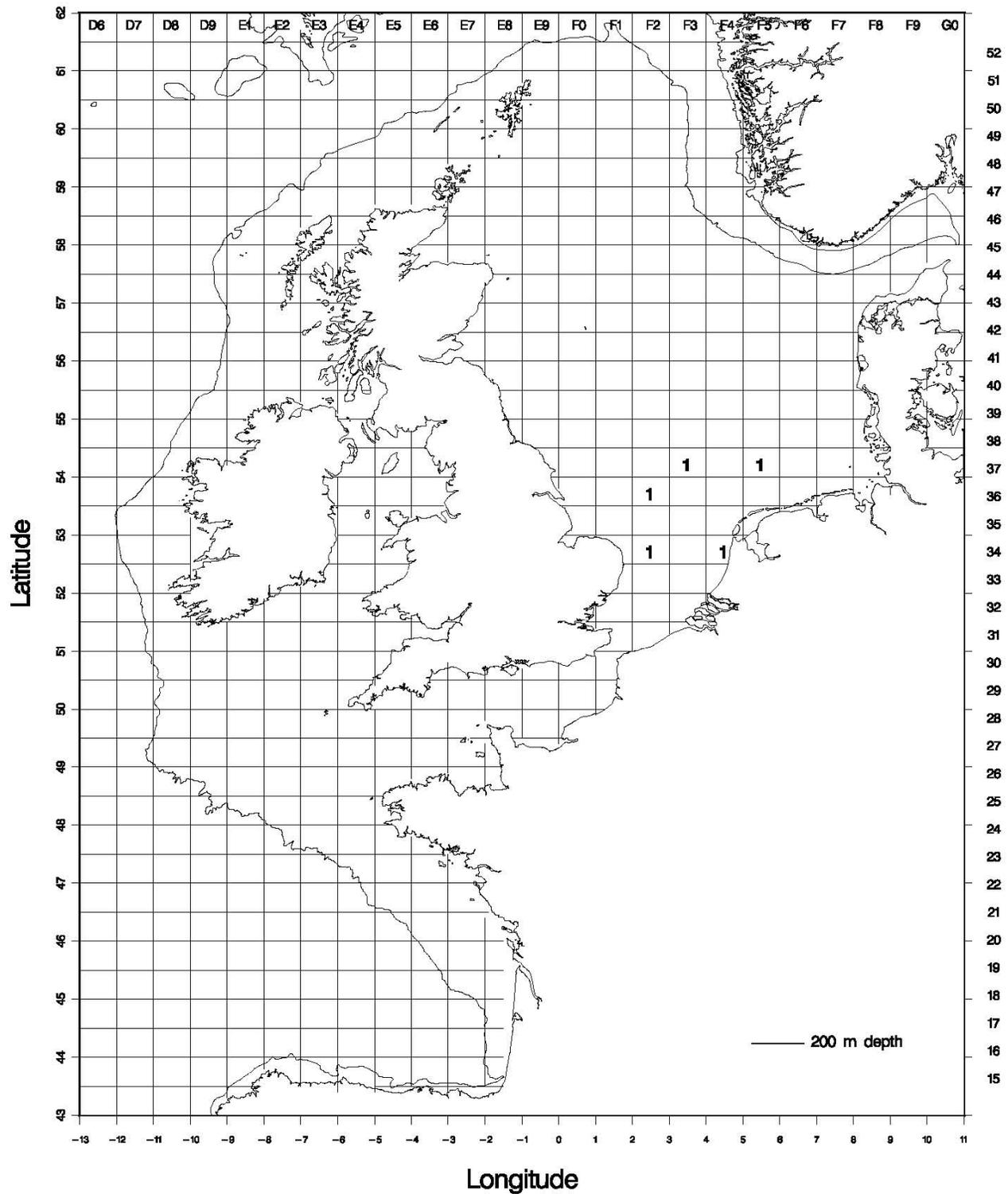


Figure 8c: Cod quarter 3 2003
 Number of age samples of commercial catches per ICES rectangle

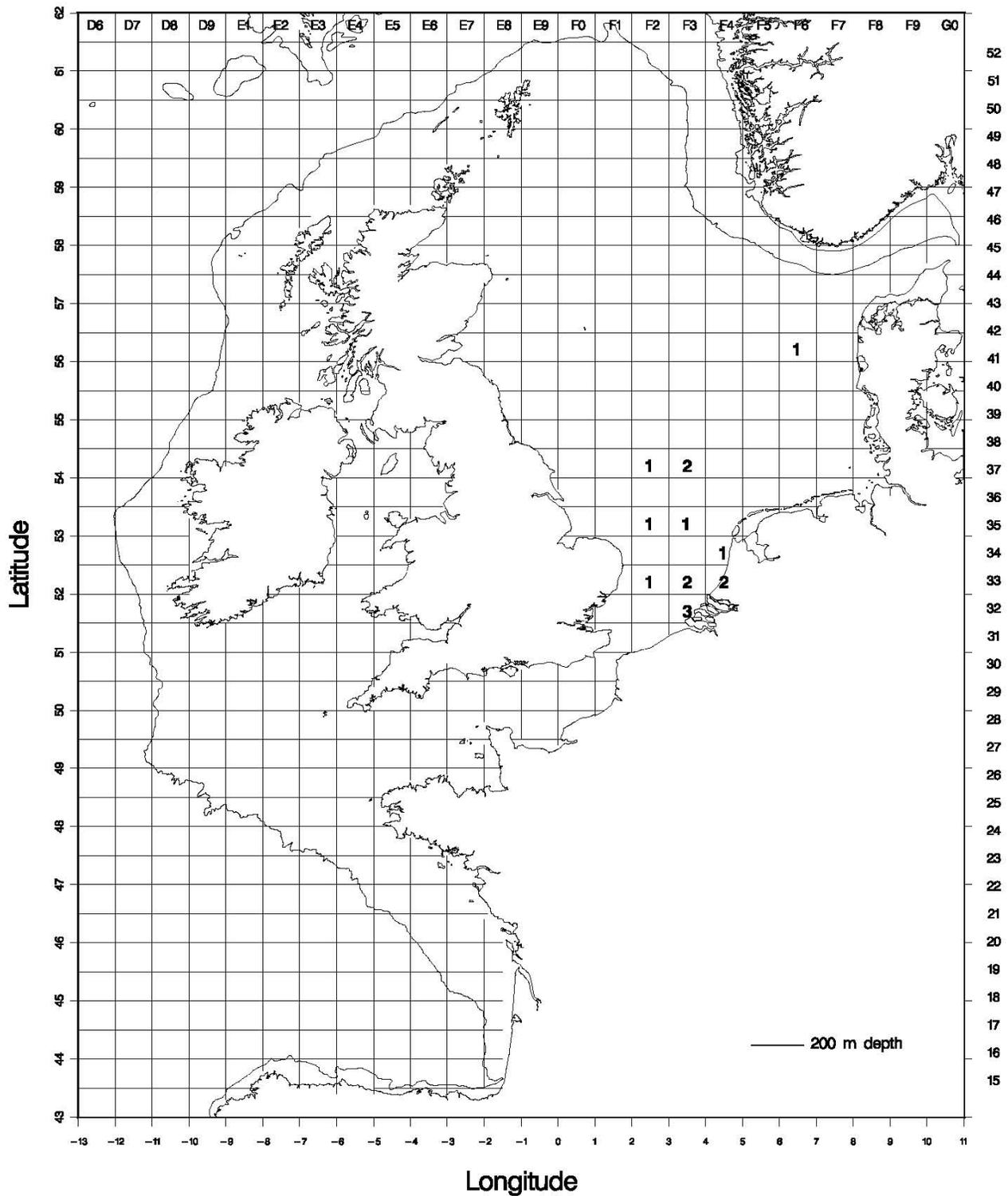


Figure 8d: Cod quarter 4 2003
 Number of age samples of commercial catches per ICES rectangle

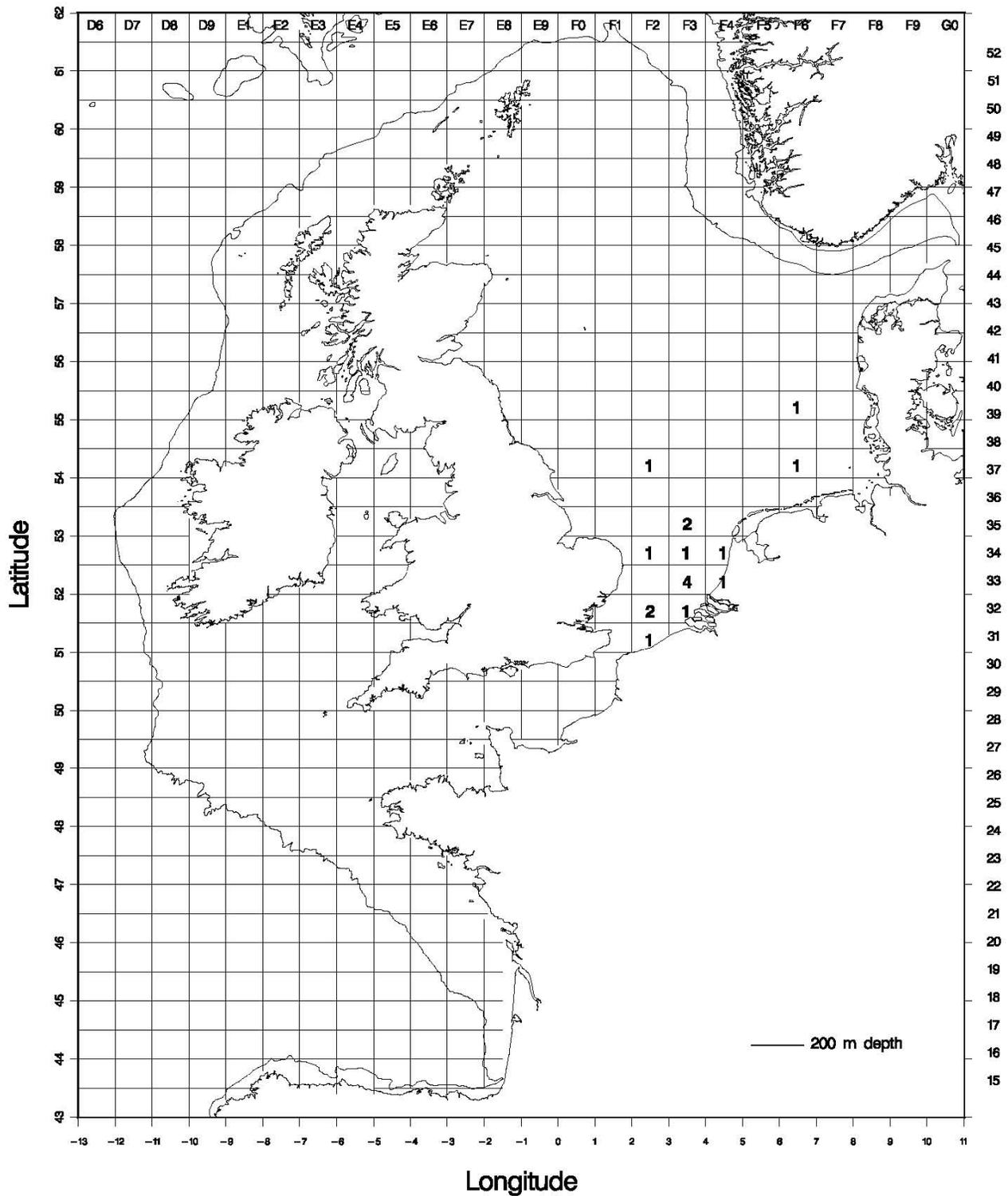


Figure 8e: Cod quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

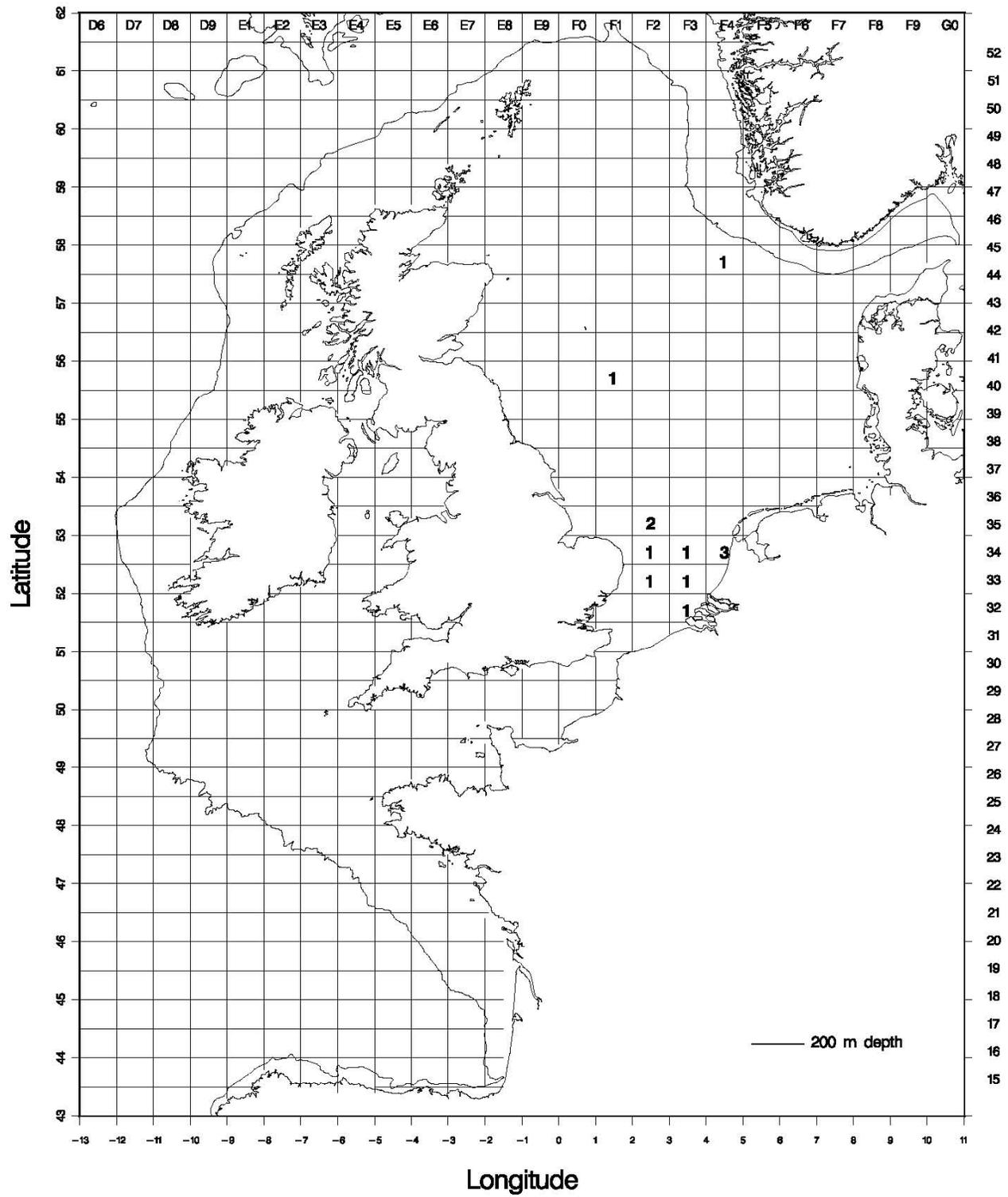


Figure 8f: Cod quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

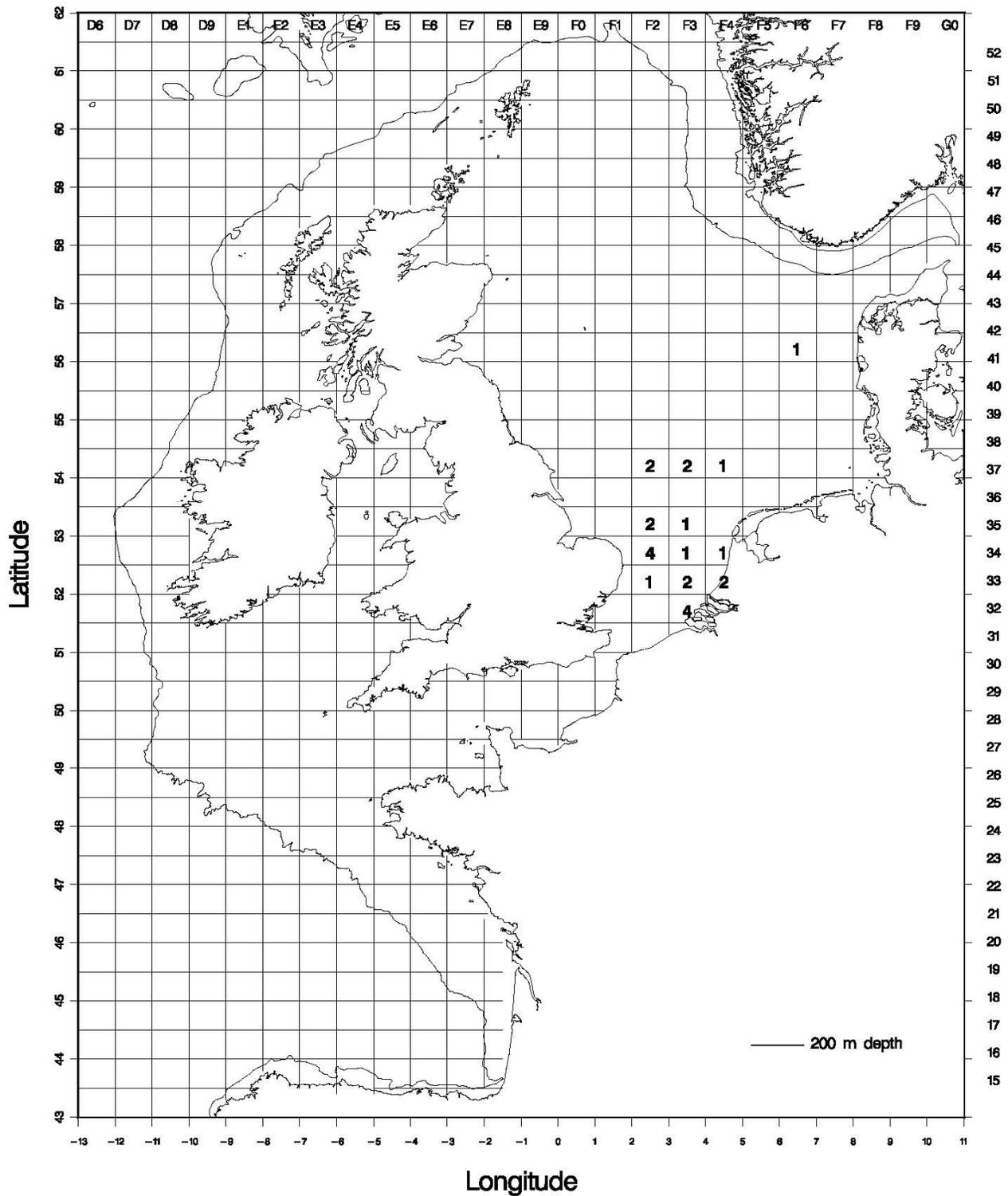


Figure 8h: Cod quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

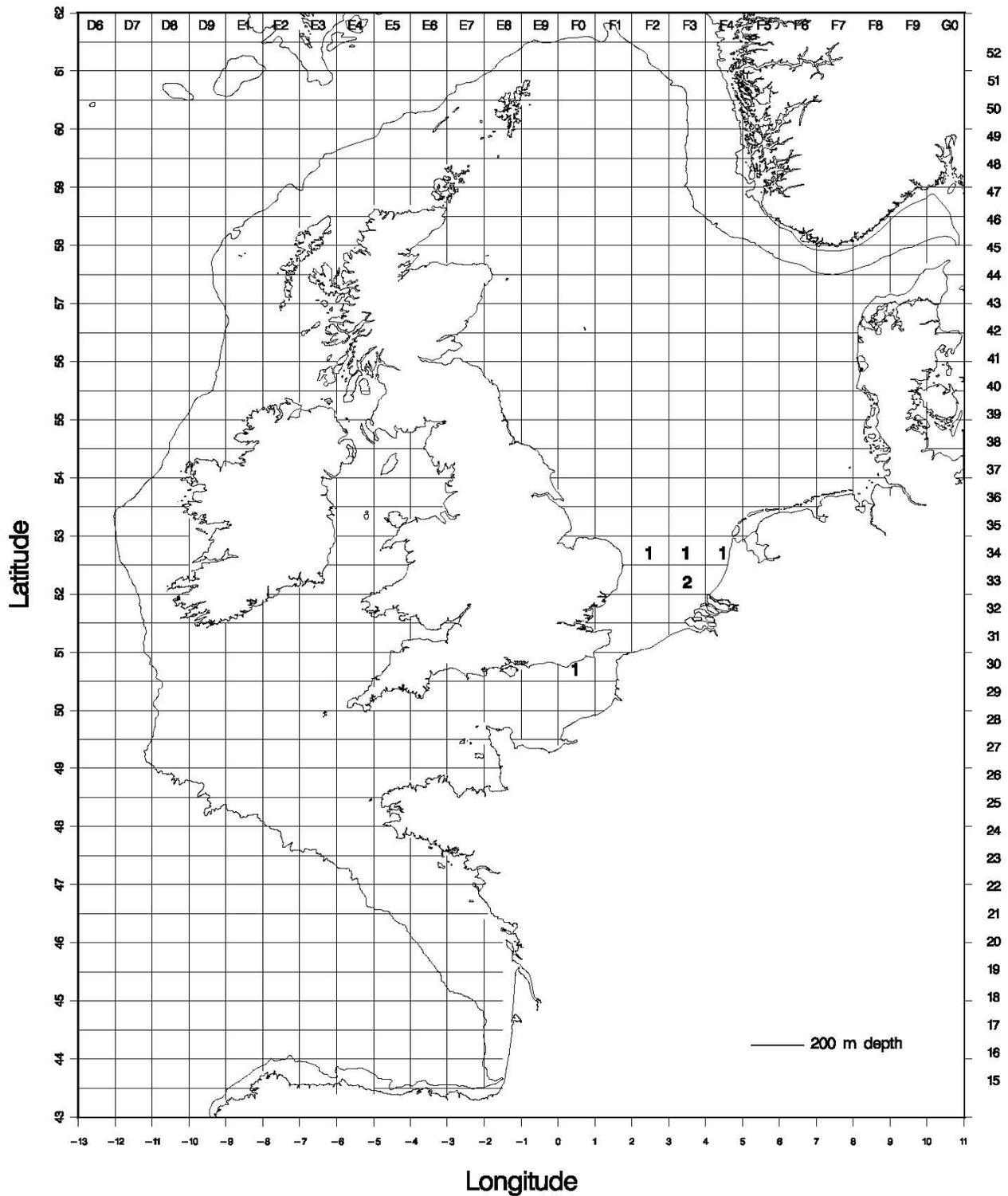


Figure 9a: Whiting quarter 1 2003
 Number of age samples of commercial catches per ICES rectangle

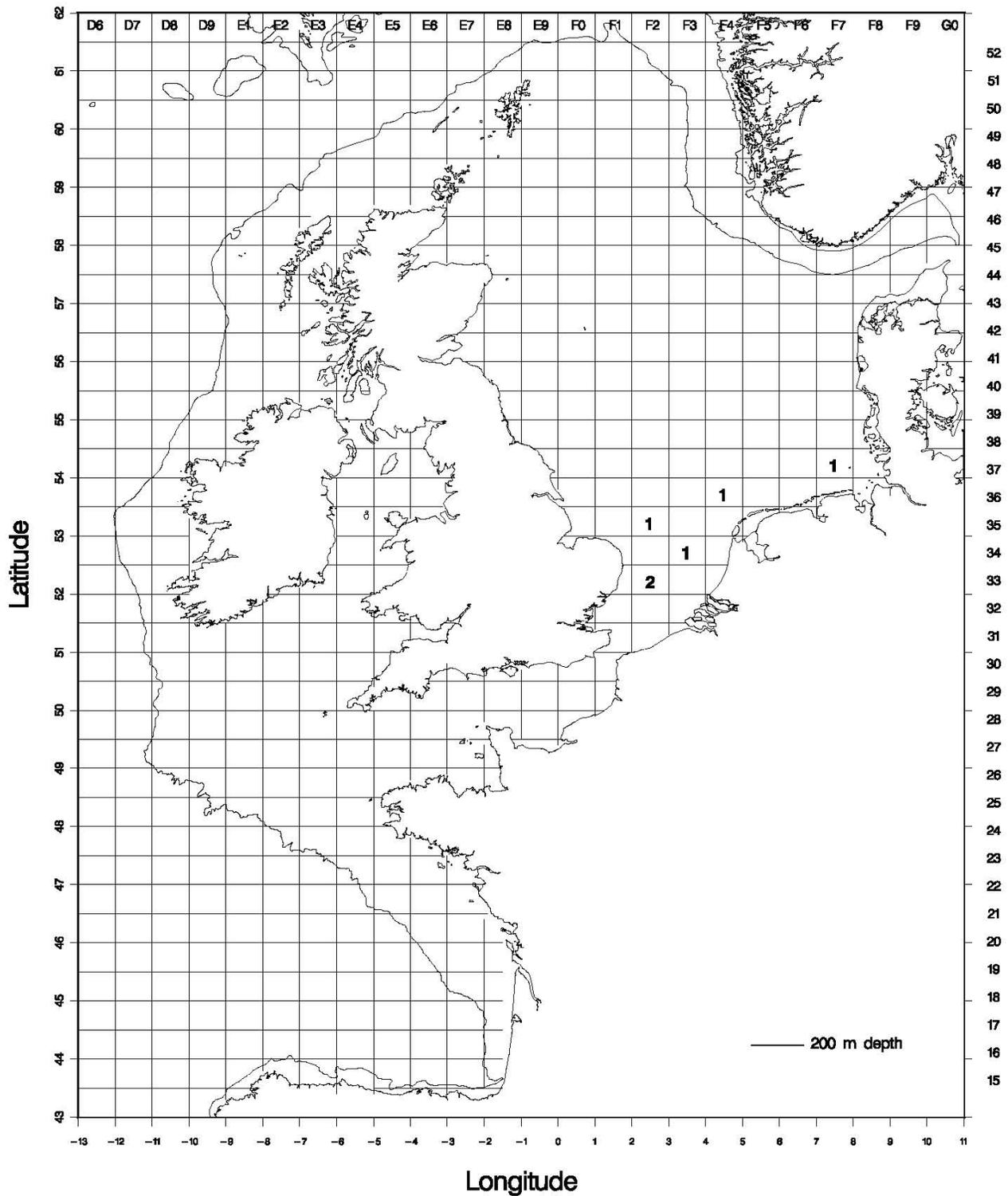


Figure 9b: Whiting quarter 2 2003
 Number of age samples of commercial catches per ICES rectangle

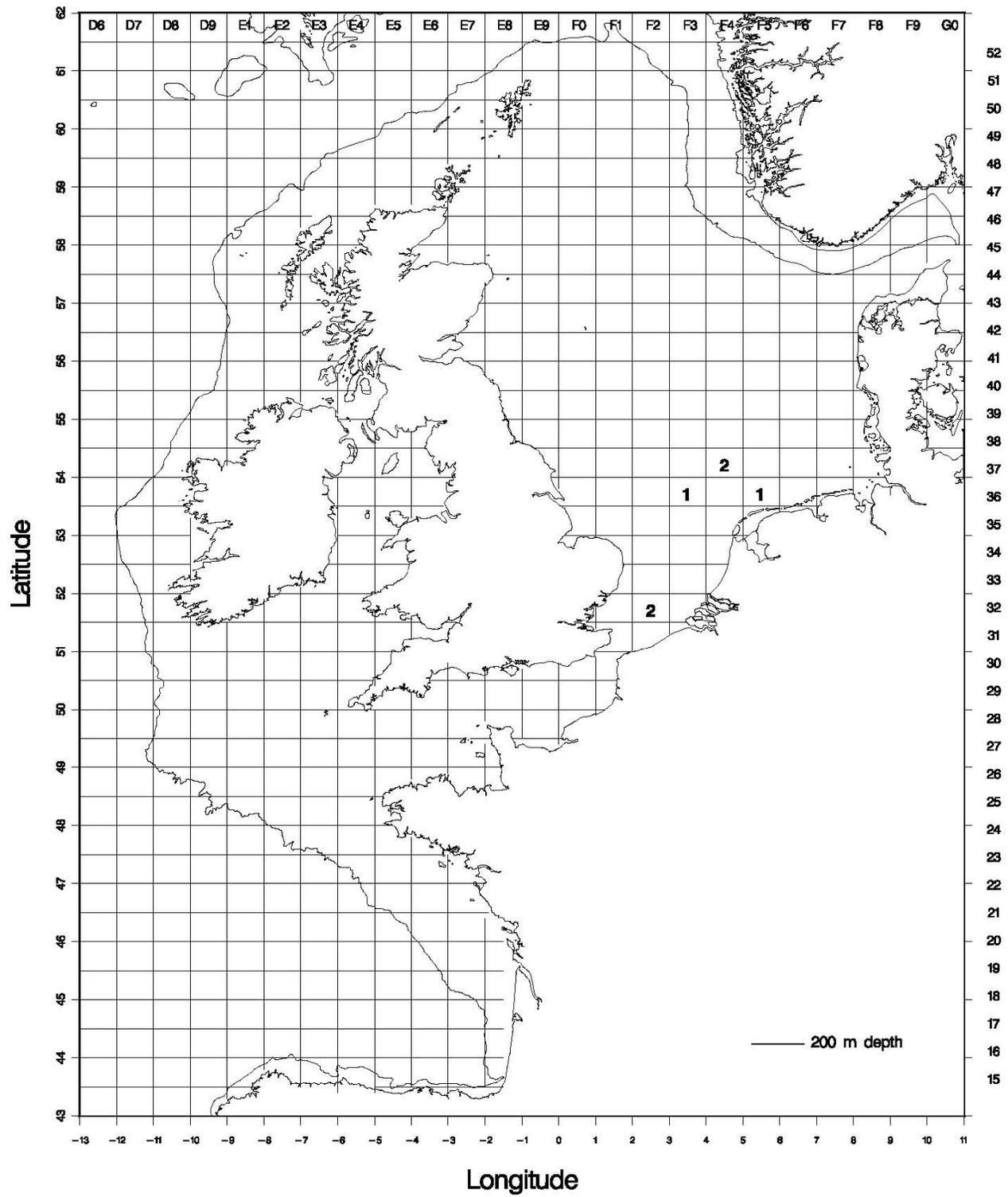


Figure 9c: Whiting quarter 3 2003
 Number of age samples of commercial catches per ICES rectangle

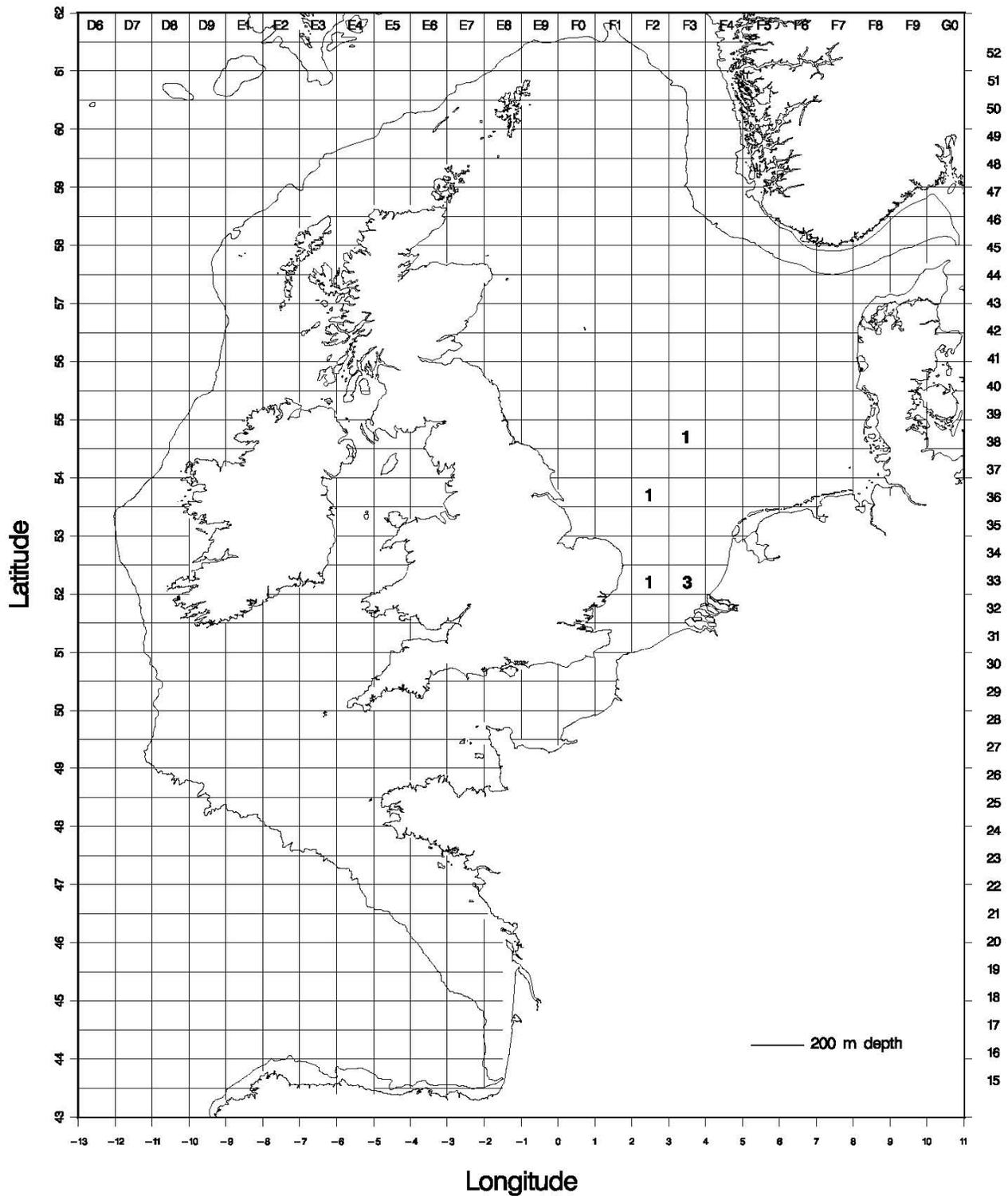


Figure 9d: Whiting quarter 4 2003
 Number of age samples of commercial catches per ICES rectangle

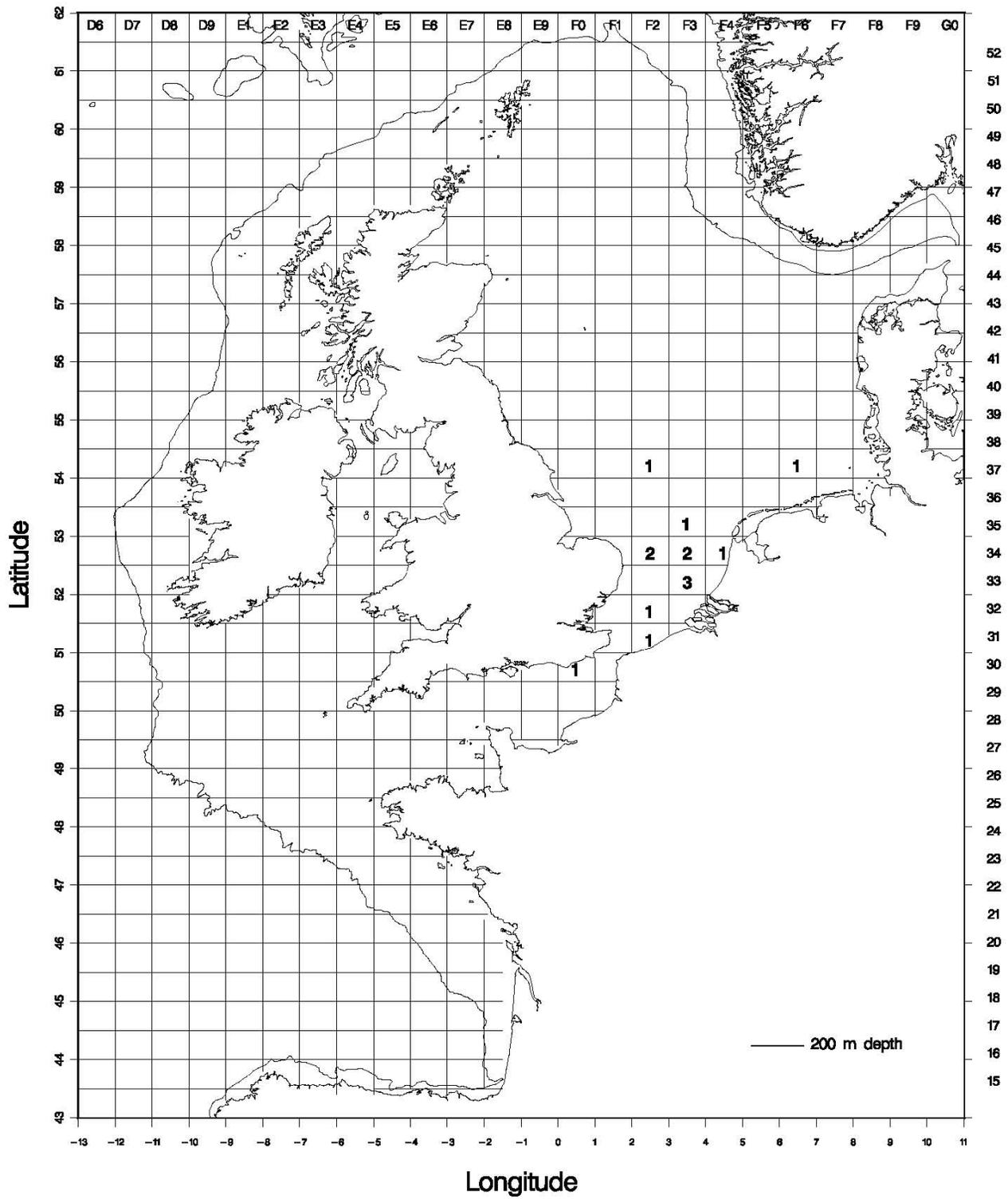
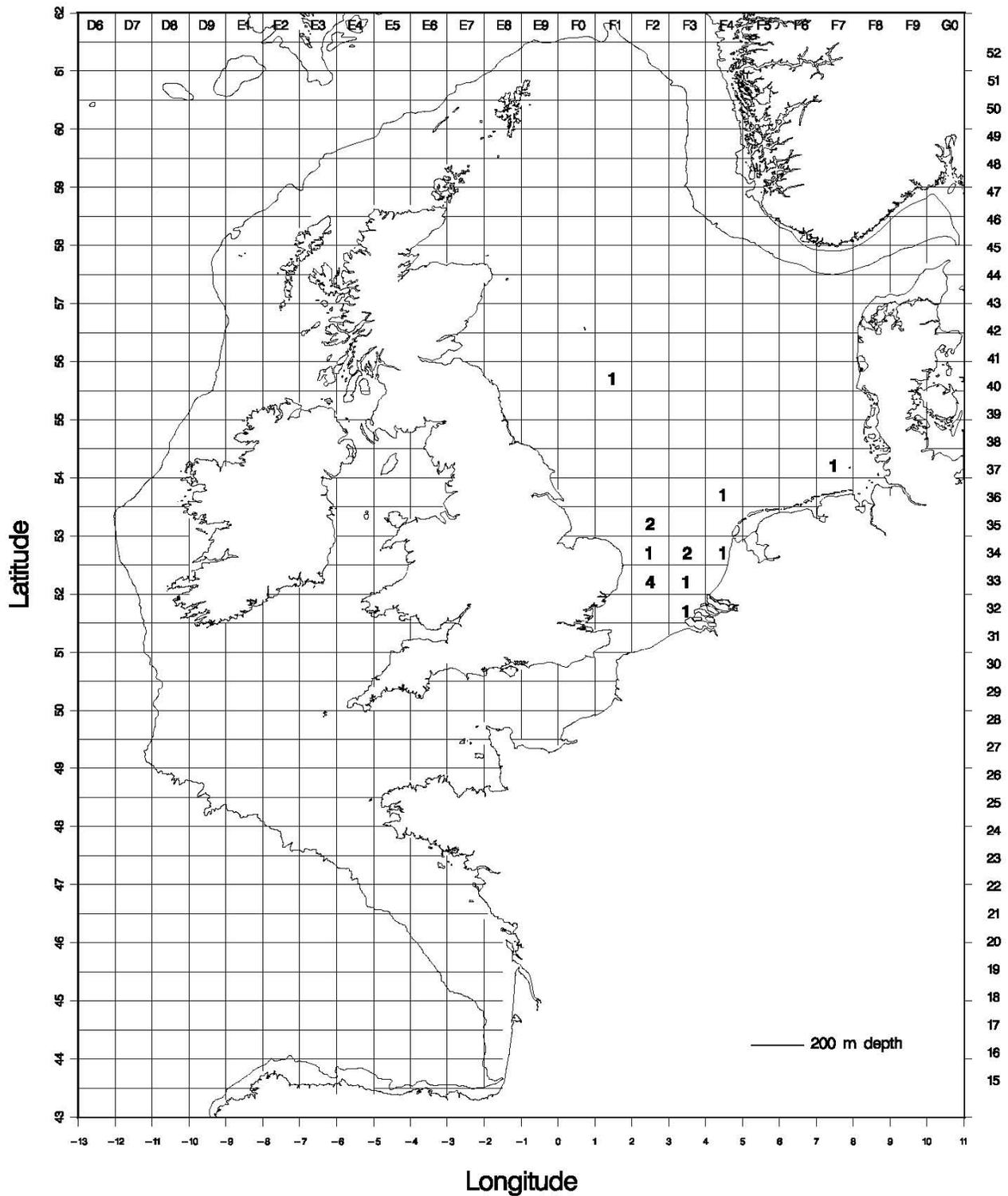


Figure 9e: Whiting quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle



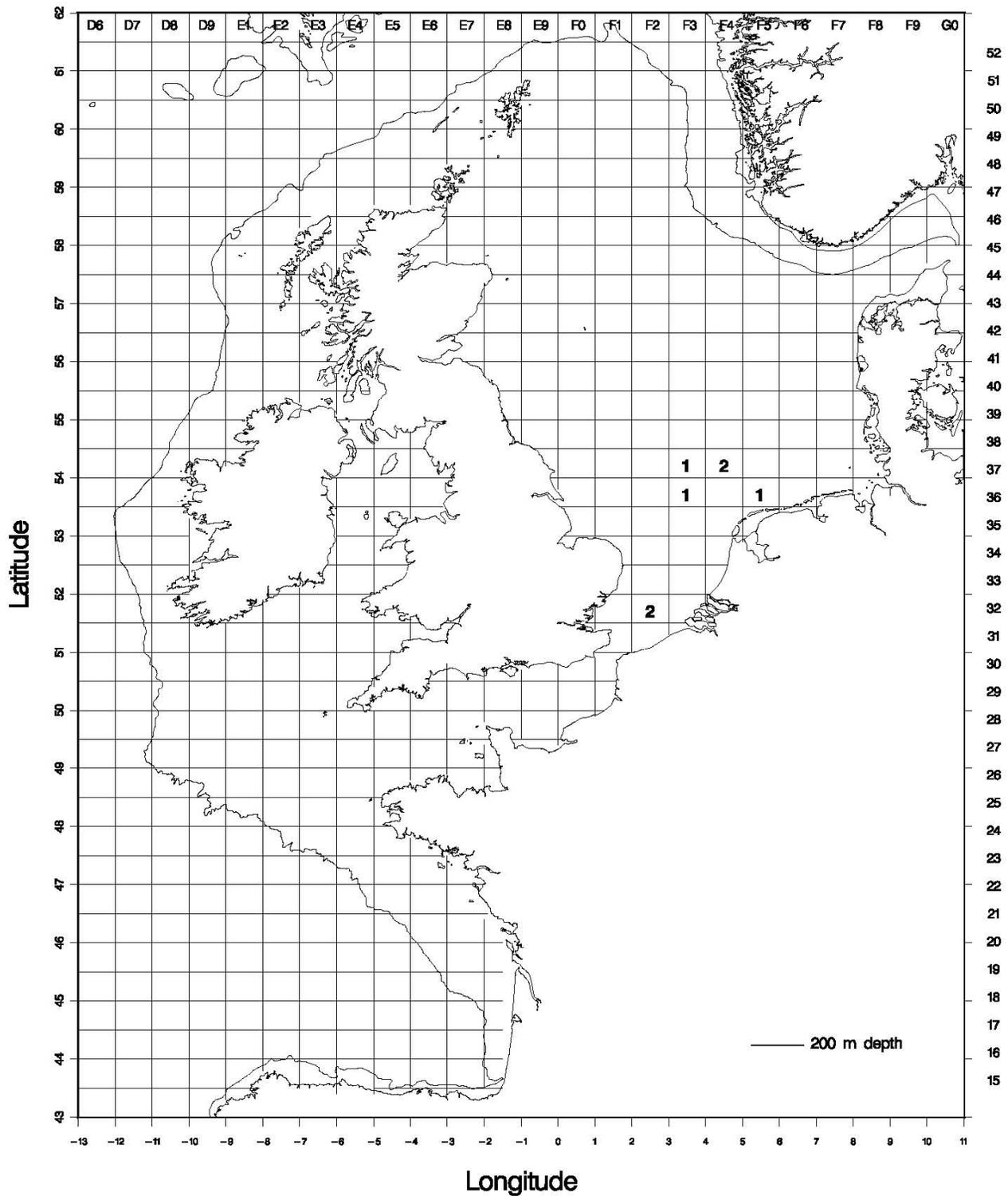


Figure 9g: Whiting quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

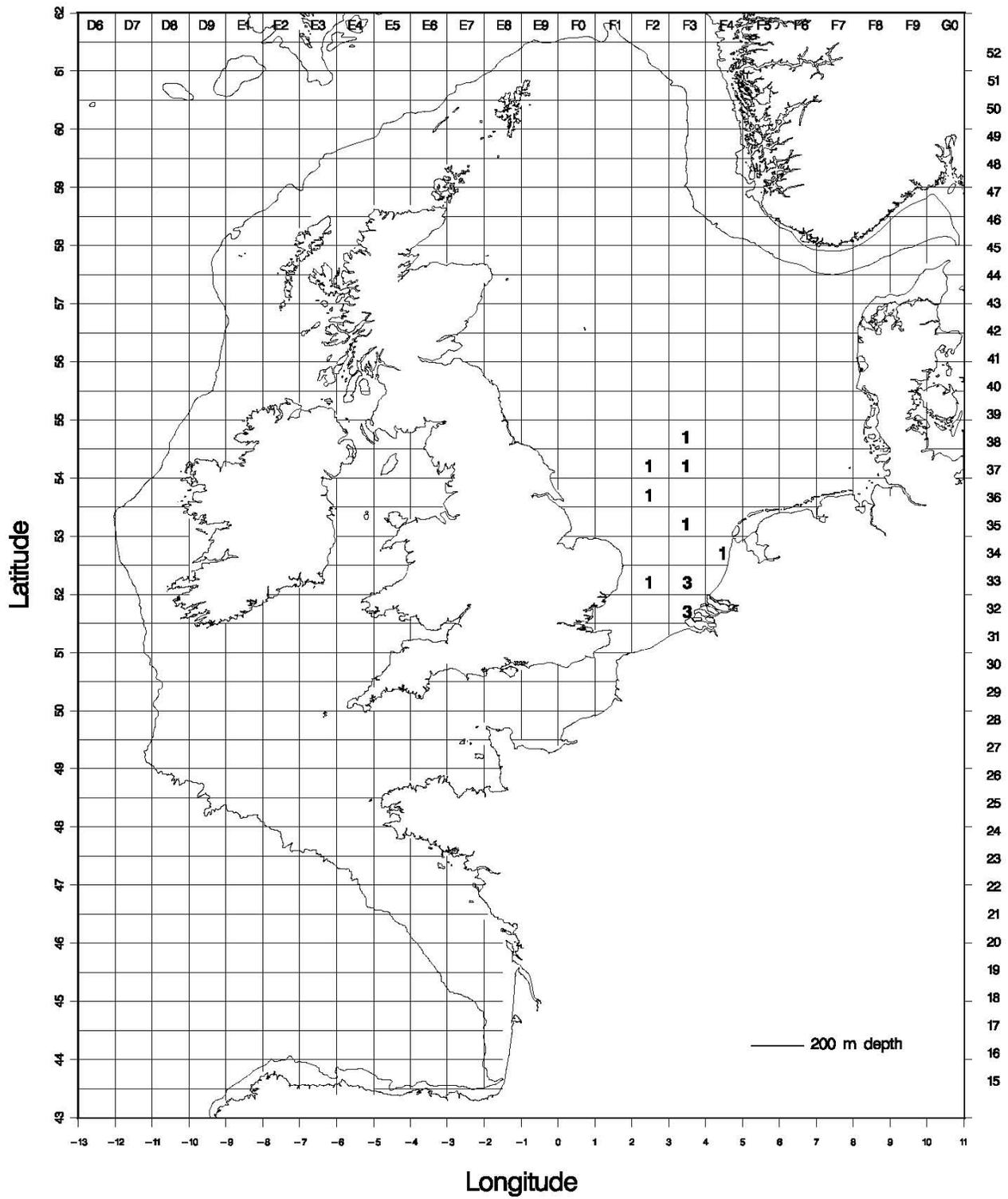


Figure 9h: Whiting quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

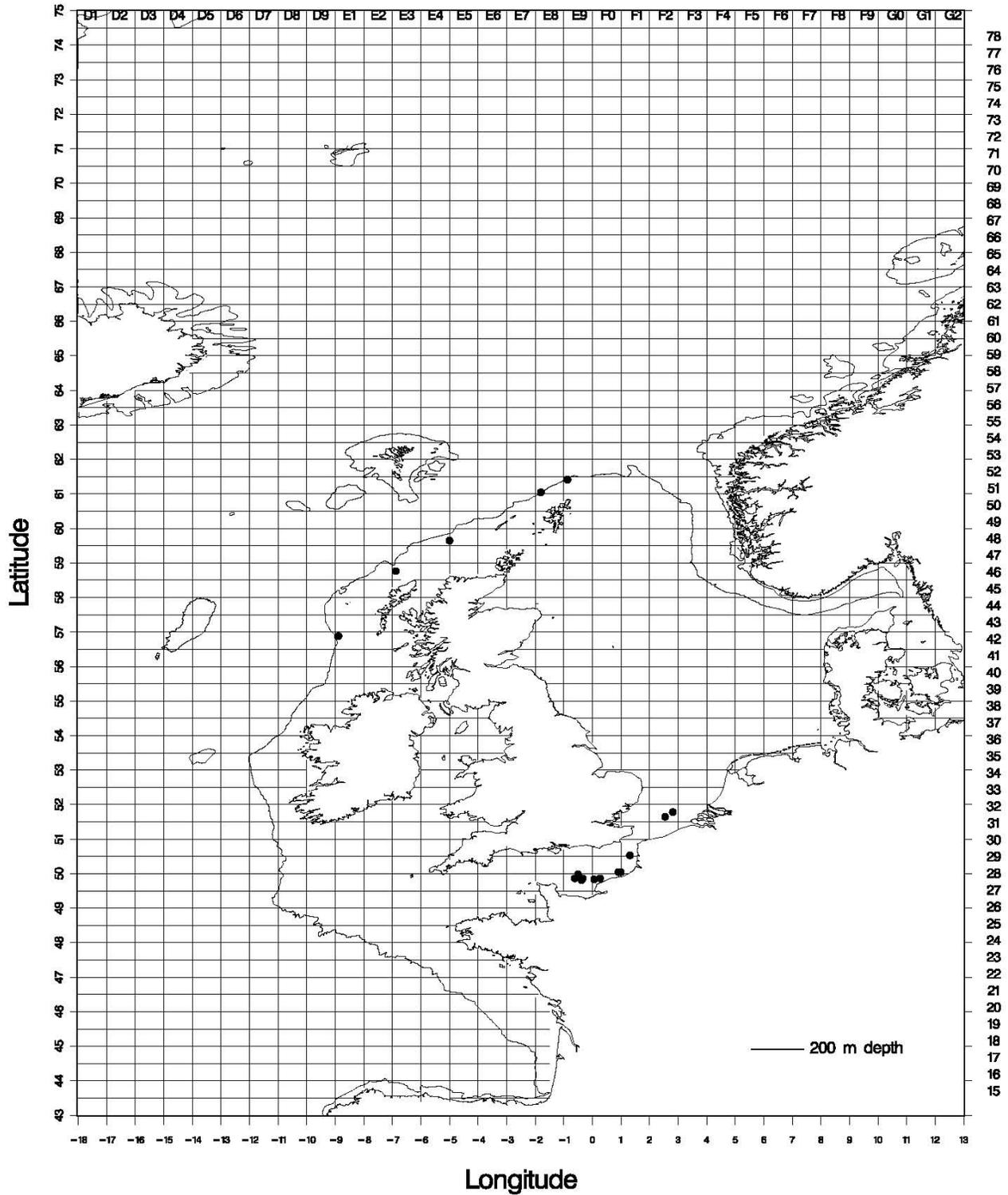
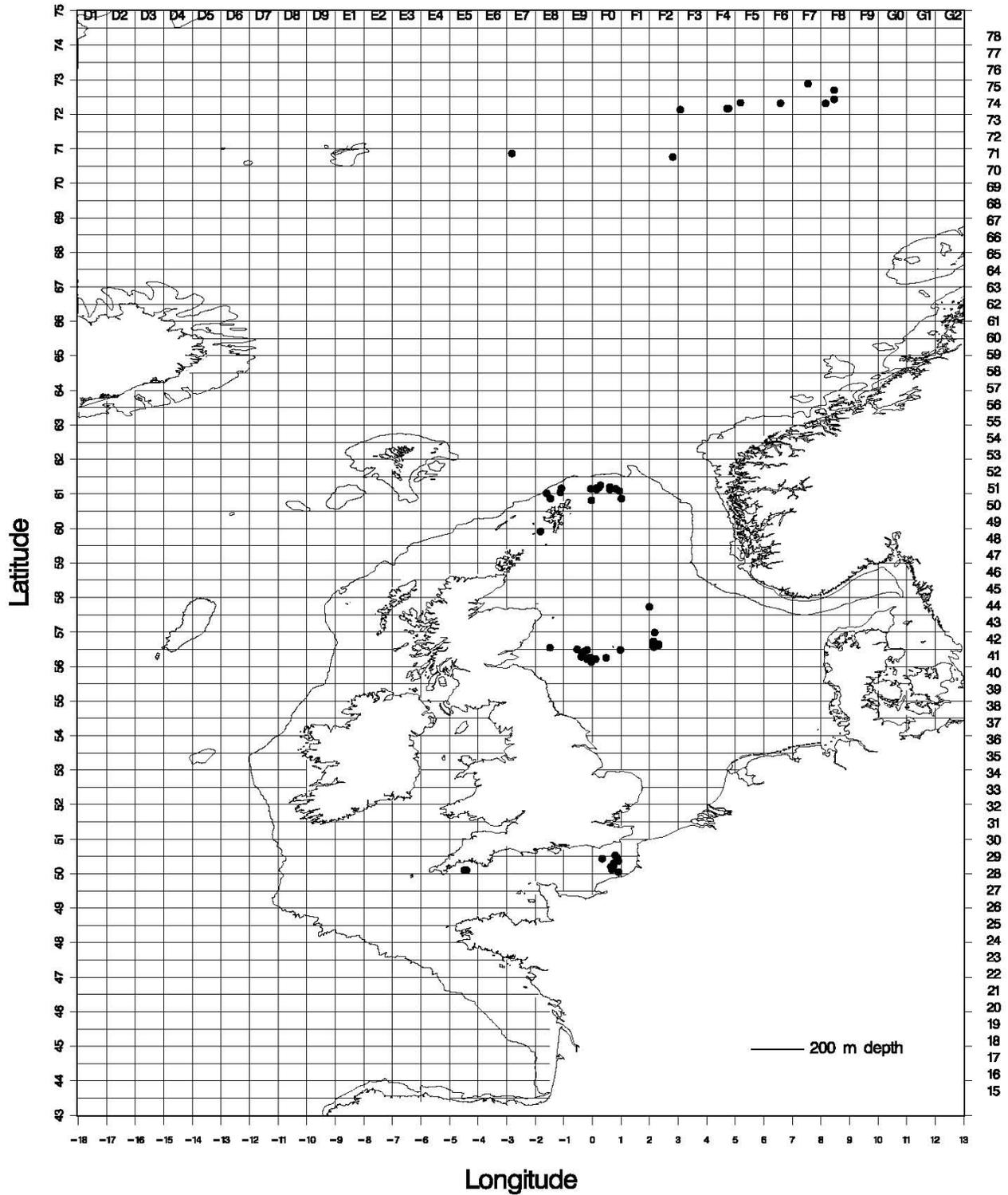


Figure 10a: Herring quarter 1 2003
 Positions of age/length samples of commercial catches



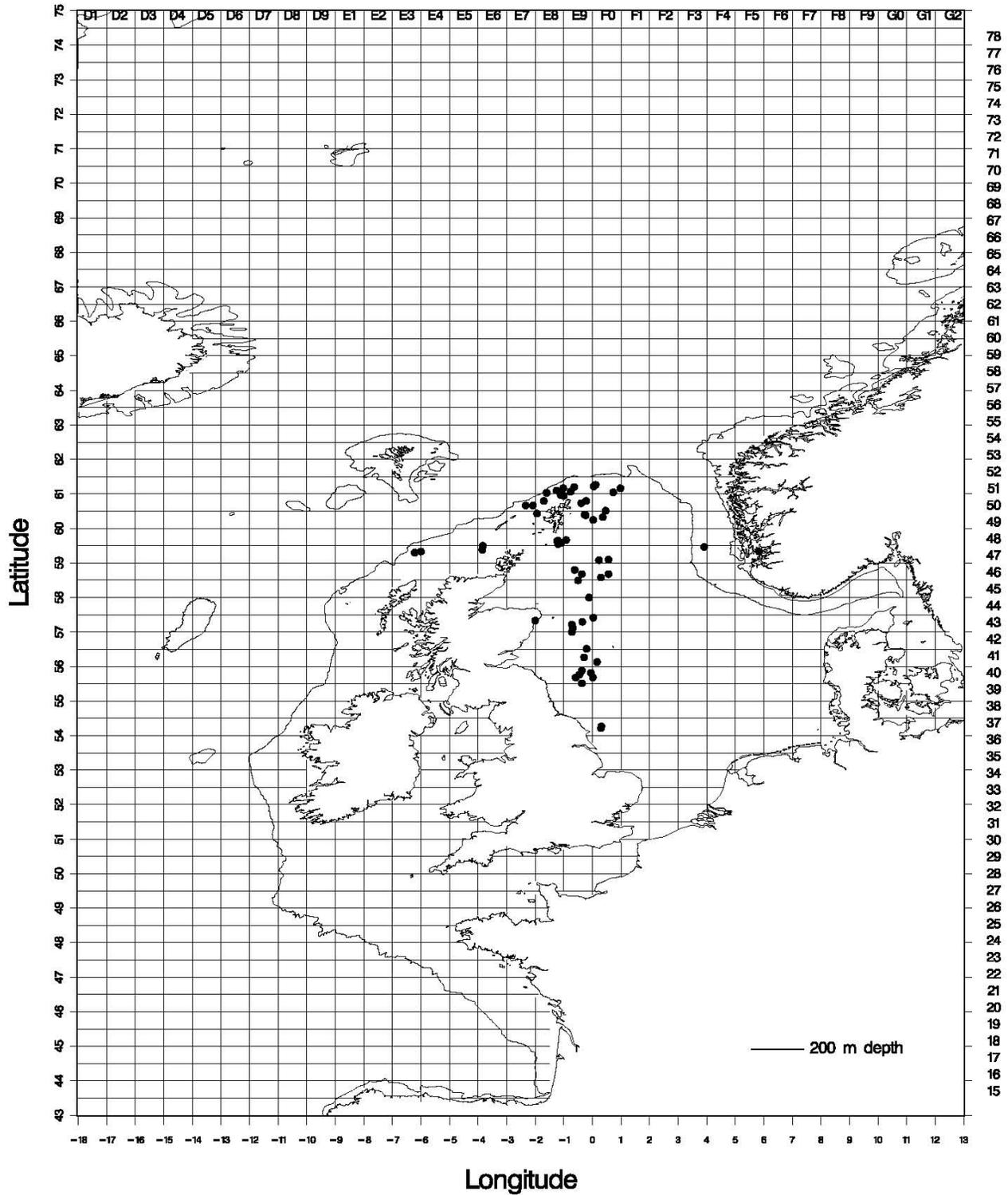


Figure 10c: Herring quarter 3 2003
 Positions of age/length samples of commercial catches

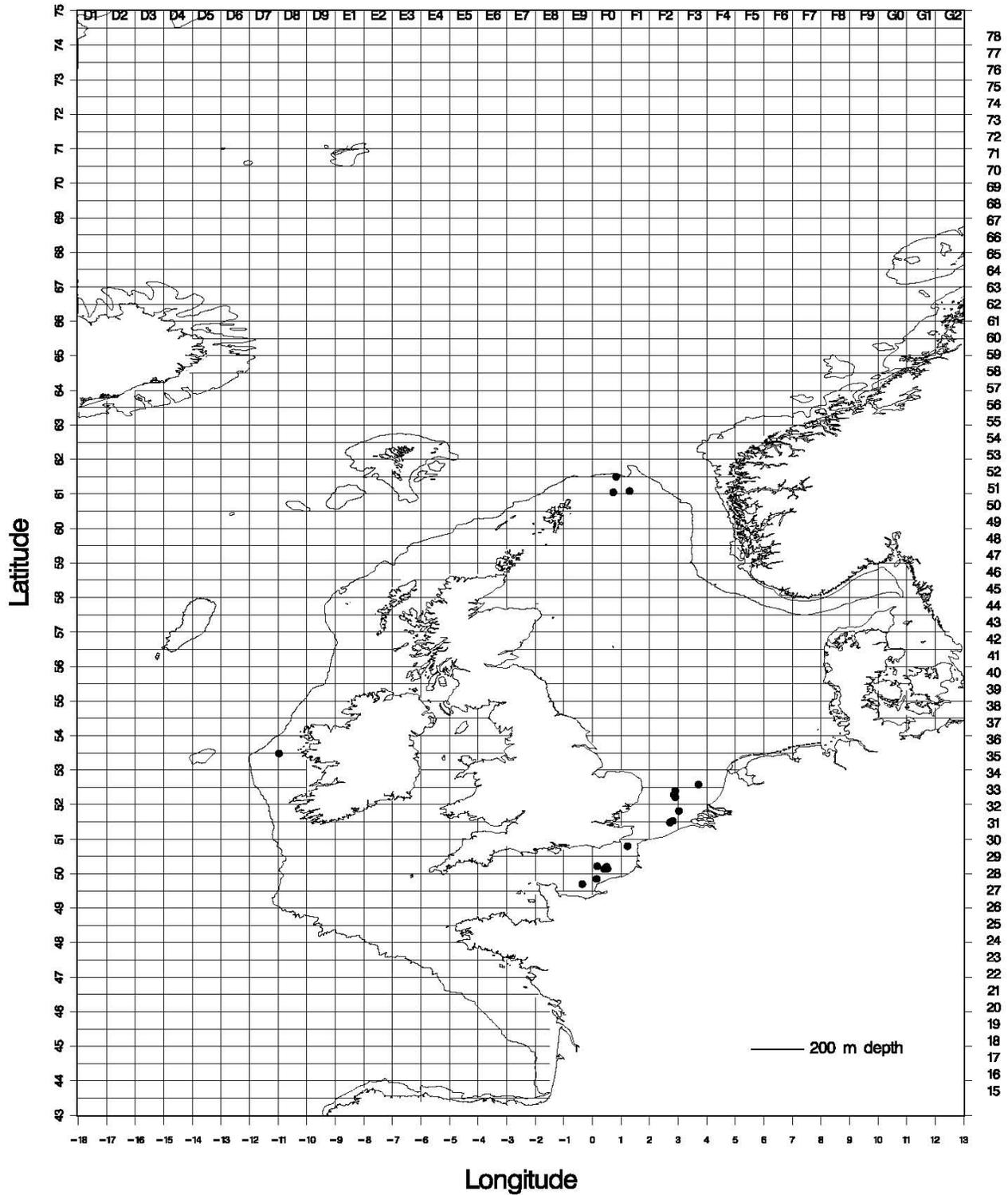


Figure 10d: Herring quarter 4 2003
 Positions of age/length samples of commercial catches

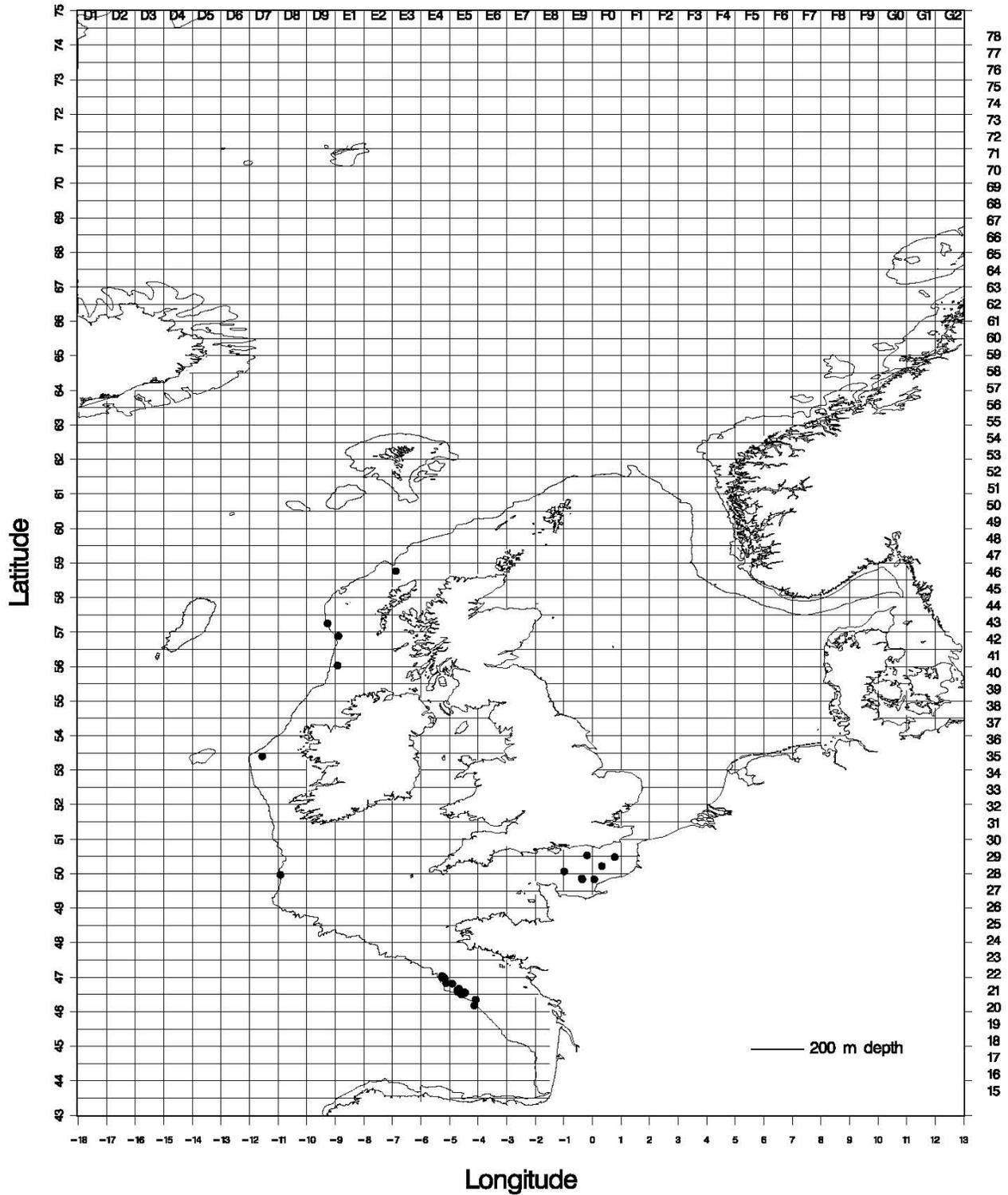


Figure 11a: Mackerel quarter 1 2003
 Positions of age/length samples of commercial catches

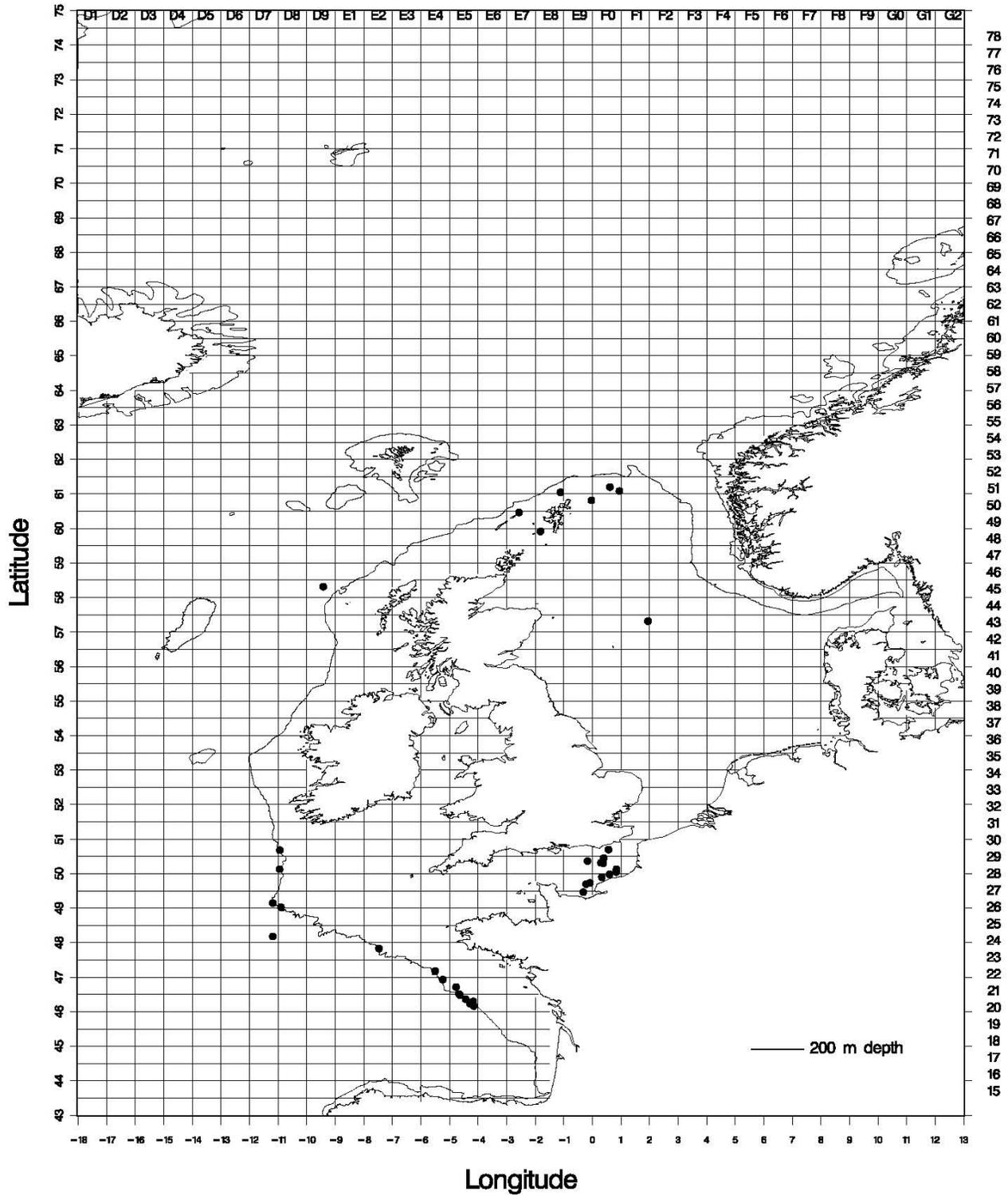


Figure 11b: Mackerel quarter 2 2003
 Positions of age/length samples of commercial catches

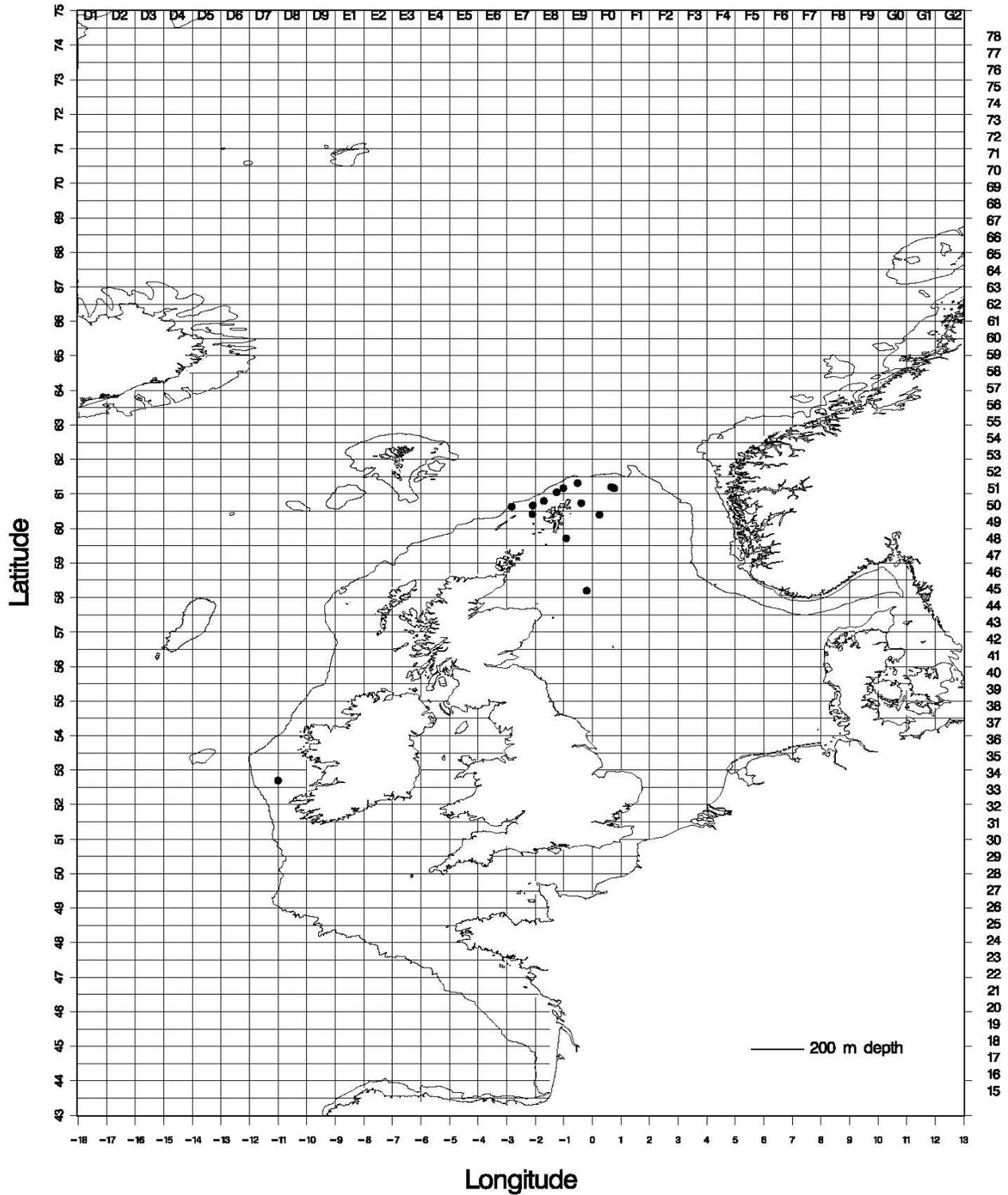


Figure 11c: Mackerel quarter 3 2003
 Positions of age/length samples of commercial catches

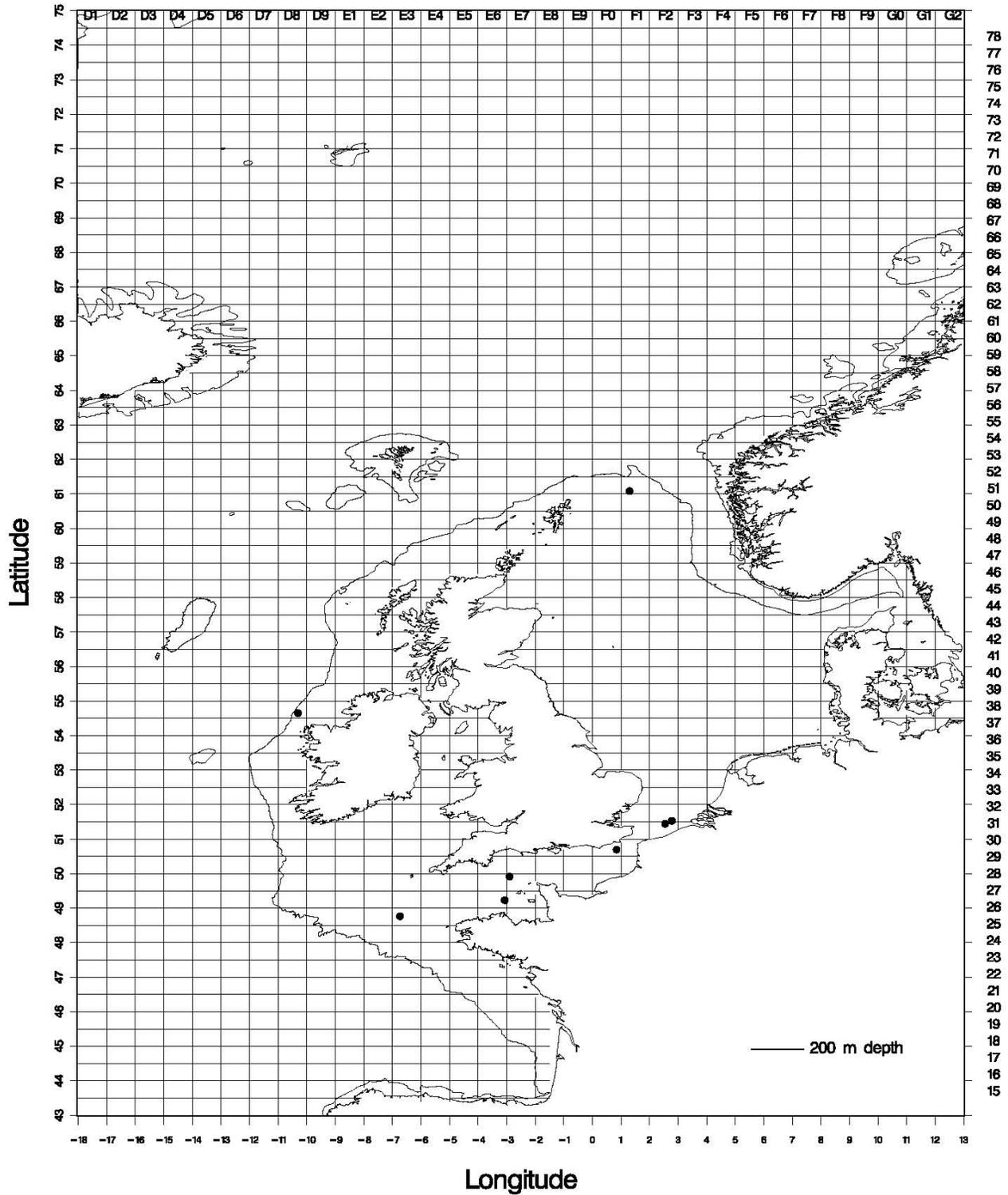


Figure 11d: Mackerel quarter 4 2003
 Positions of age/length samples of commercial catches

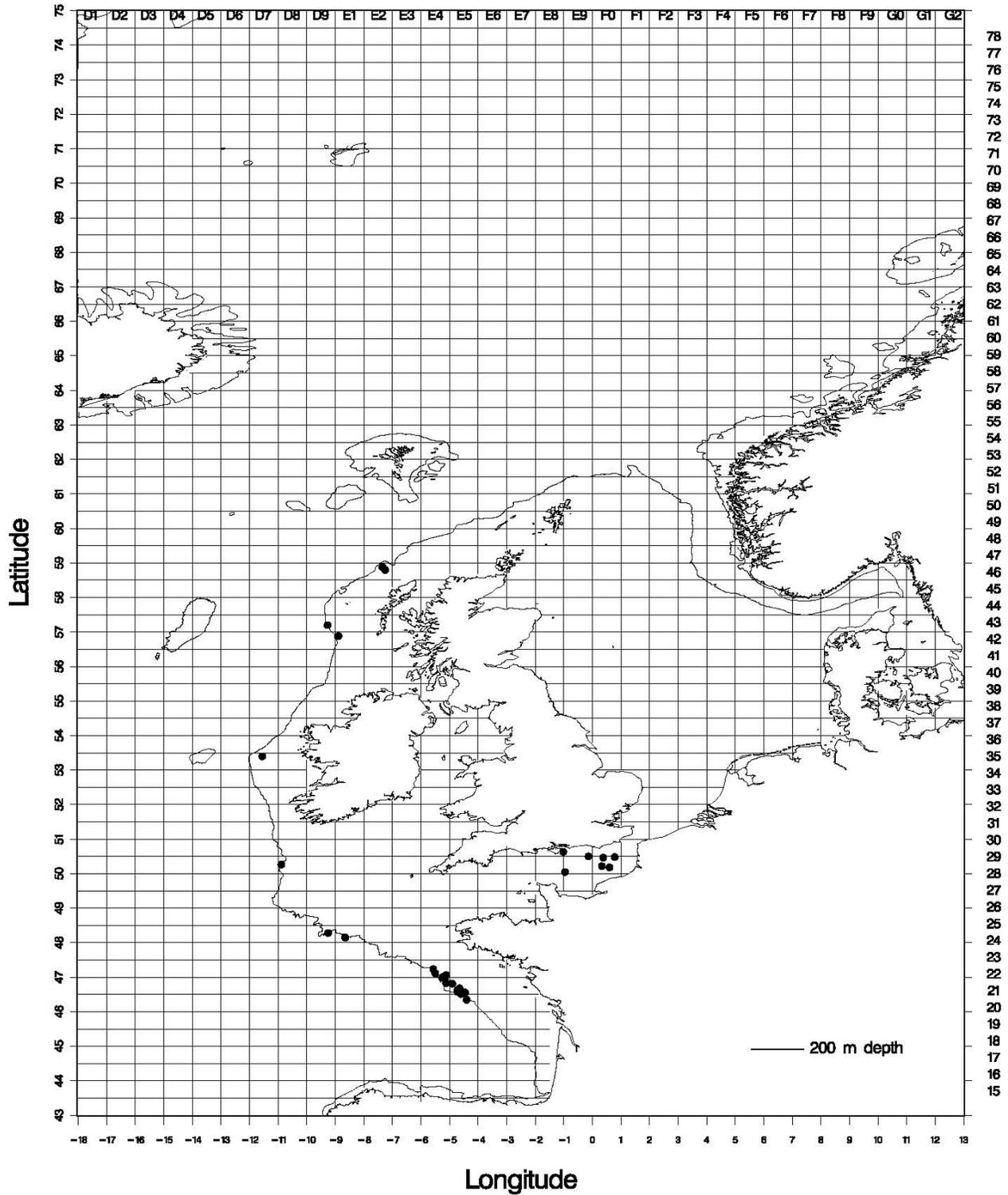


Figure 12a: Horse mackerel quarter 1 2003
 Positions of age/length samples of commercial catches

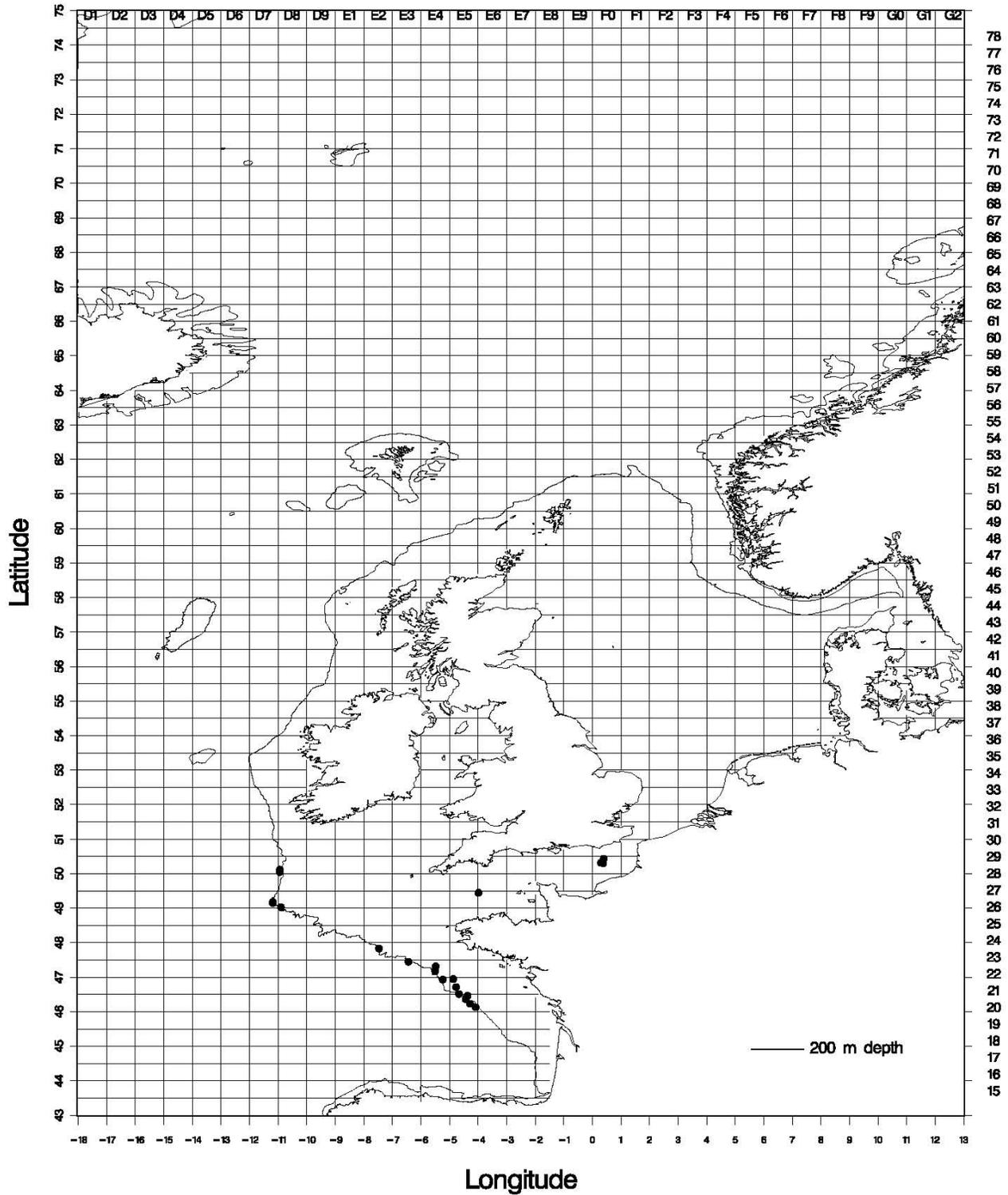


Figure 12b: Horse mackerel quarter 2 2003
 Positions of age/length samples of commercial catches

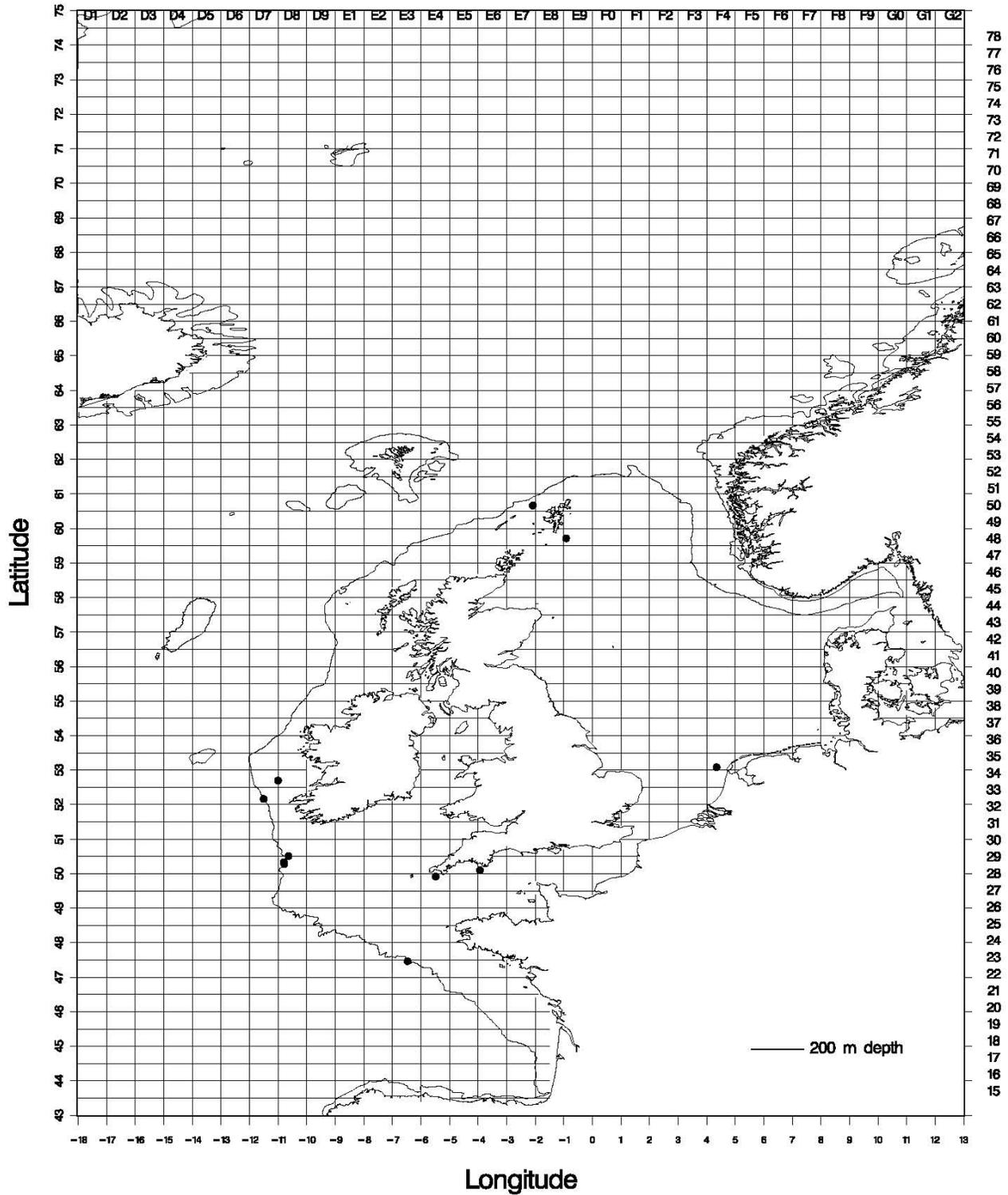


Figure 12c: Horse mackerel quarter 3 2003
 Positions of age/length samples of commercial catches

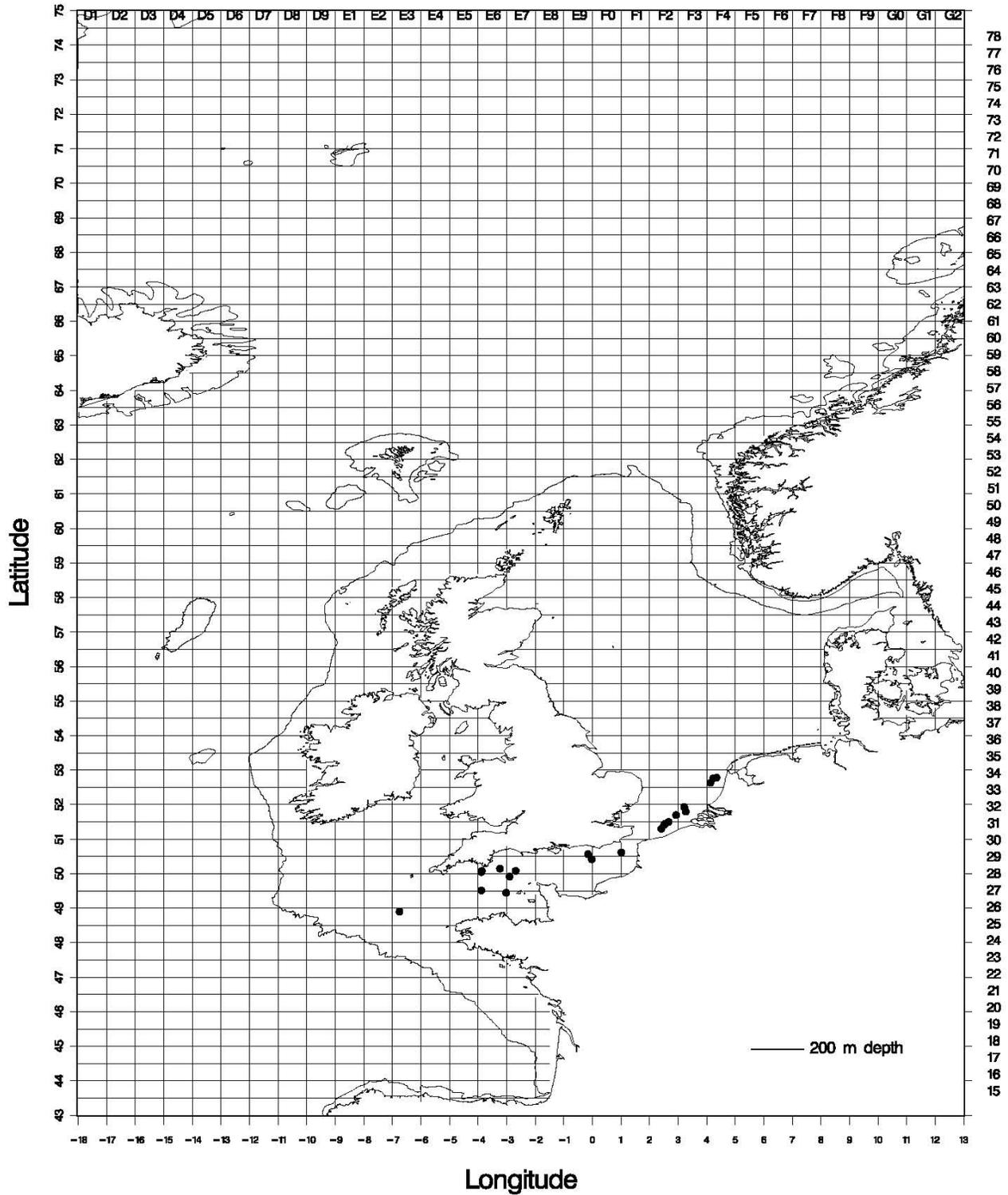


Figure 12d: Horse mackerel quarter 4 2003
 Positions of age/length samples of commercial catches

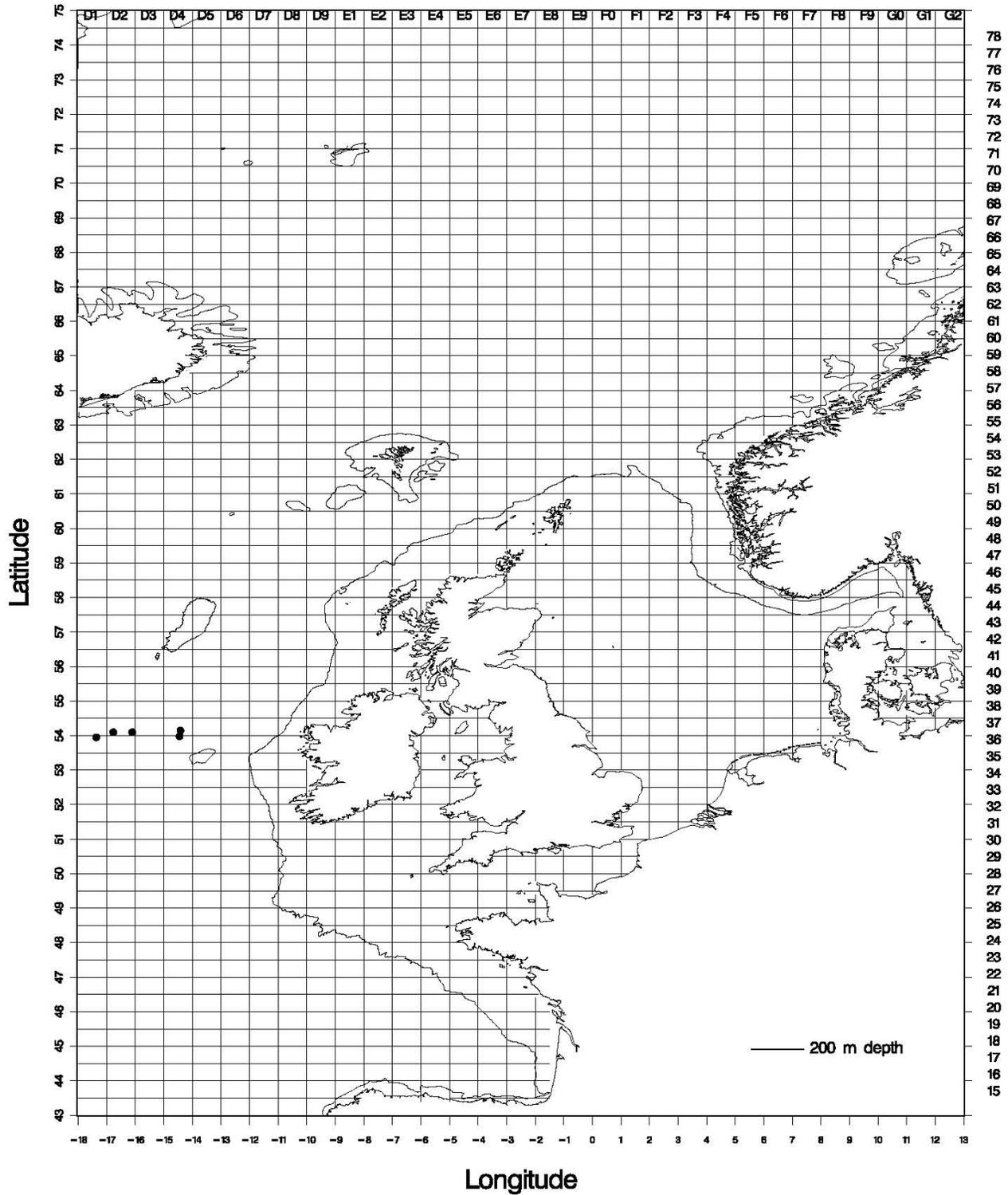


Figure 13a: Blue whiting quarter 1 2003
Positions of age/length samples of commercial catches

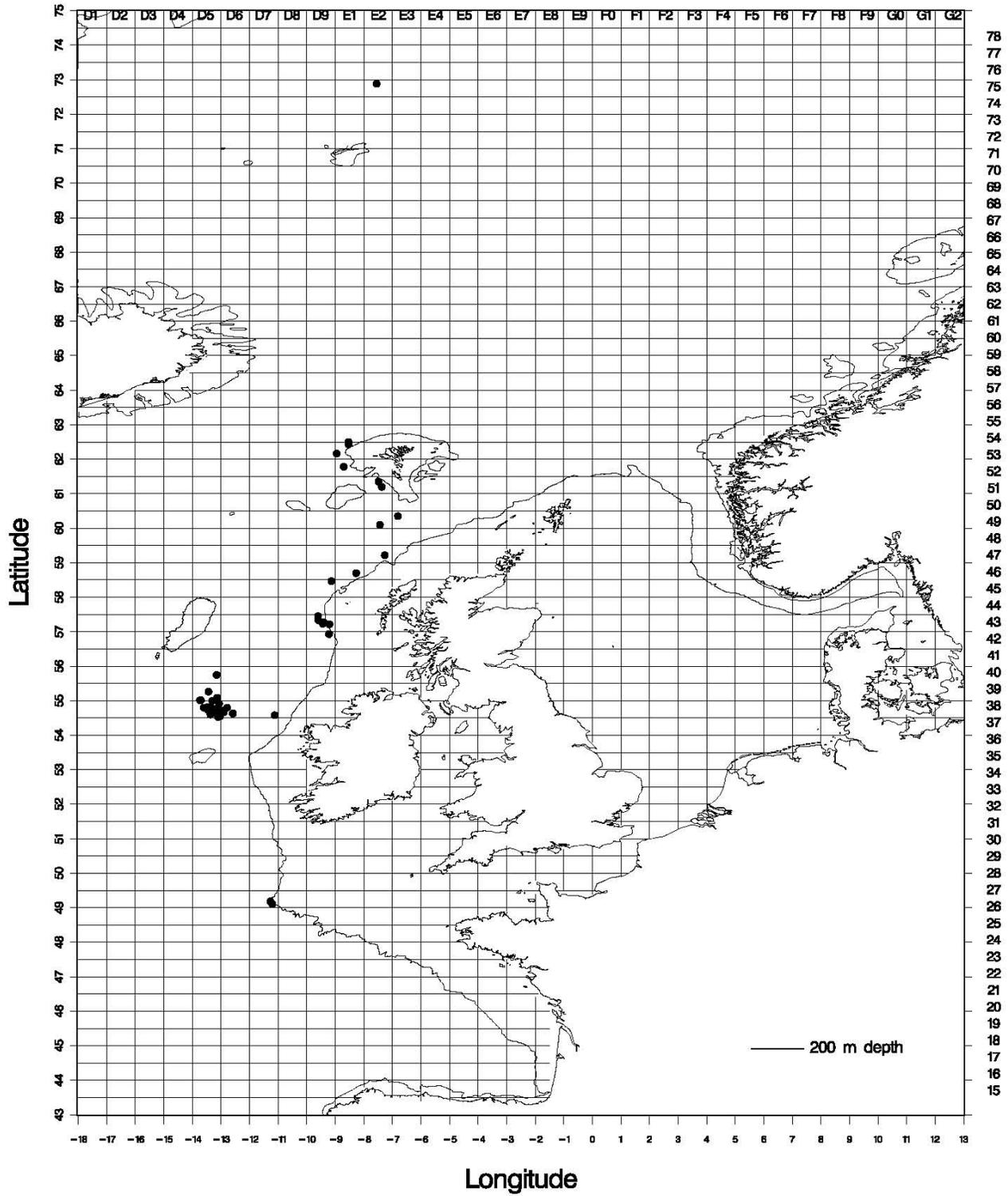


Figure 13b: Blue whiting quarter 2 2003
 Positions of age/length samples of commercial catches

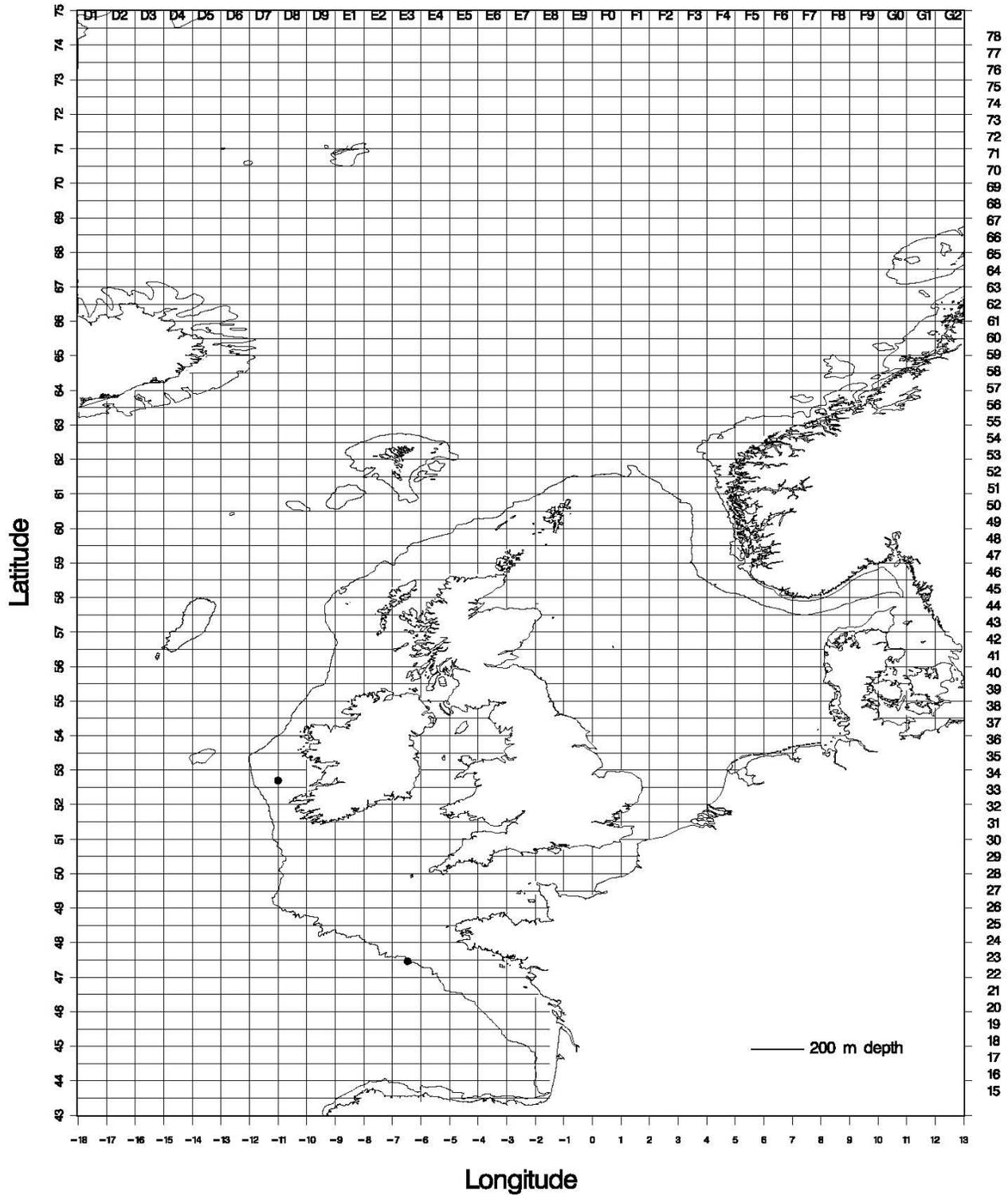


Figure 13c: Blue whiting quarter 3 2003
 Positions of age/length samples of commercial catches

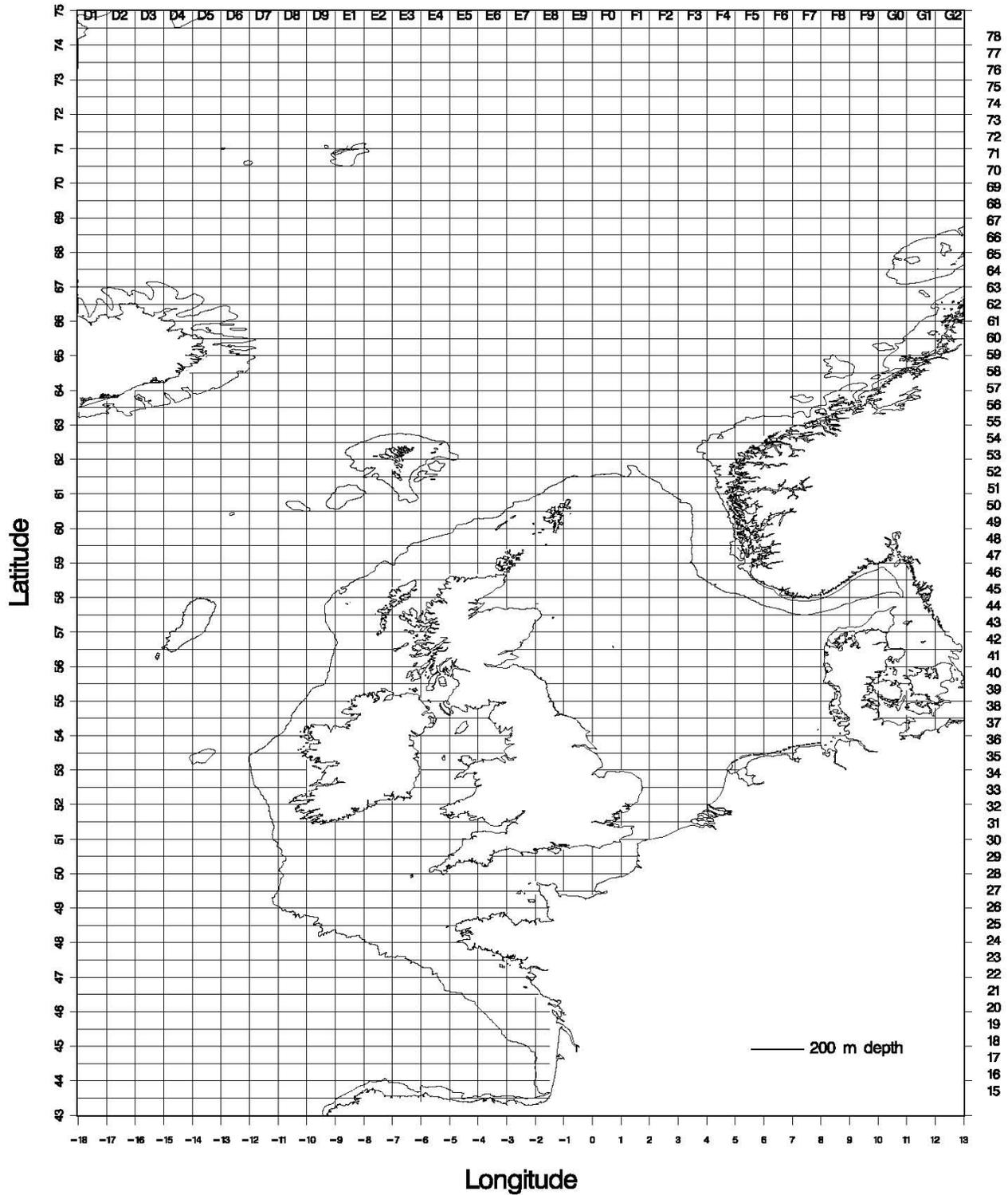


Figure 13d: Blue whiting quarter 4 2003
 Positions of age/length samples of commercial catches

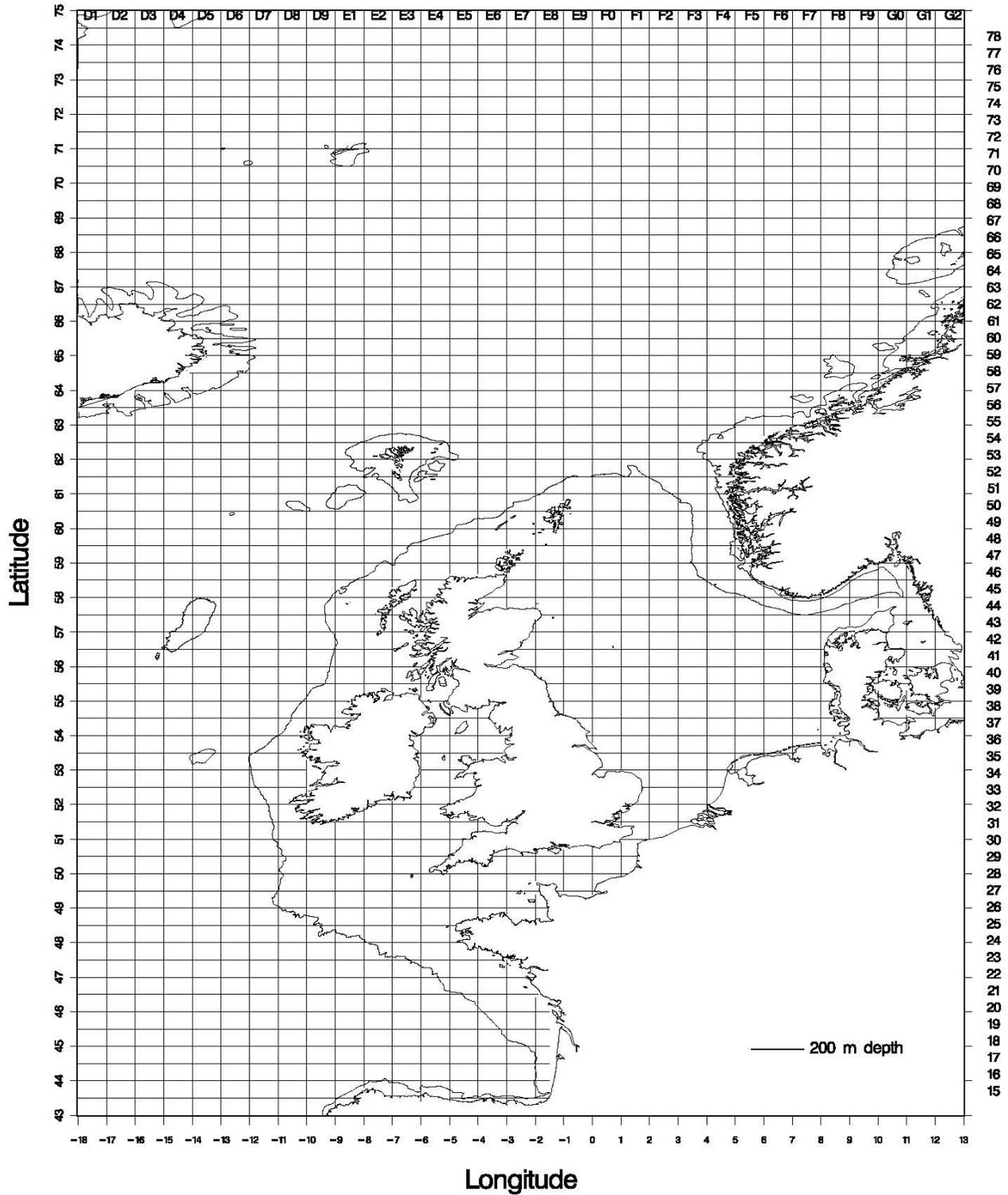


Figure 14a: Greater argentine quarter 1 2003
 Positions of age/length samples of commercial catches

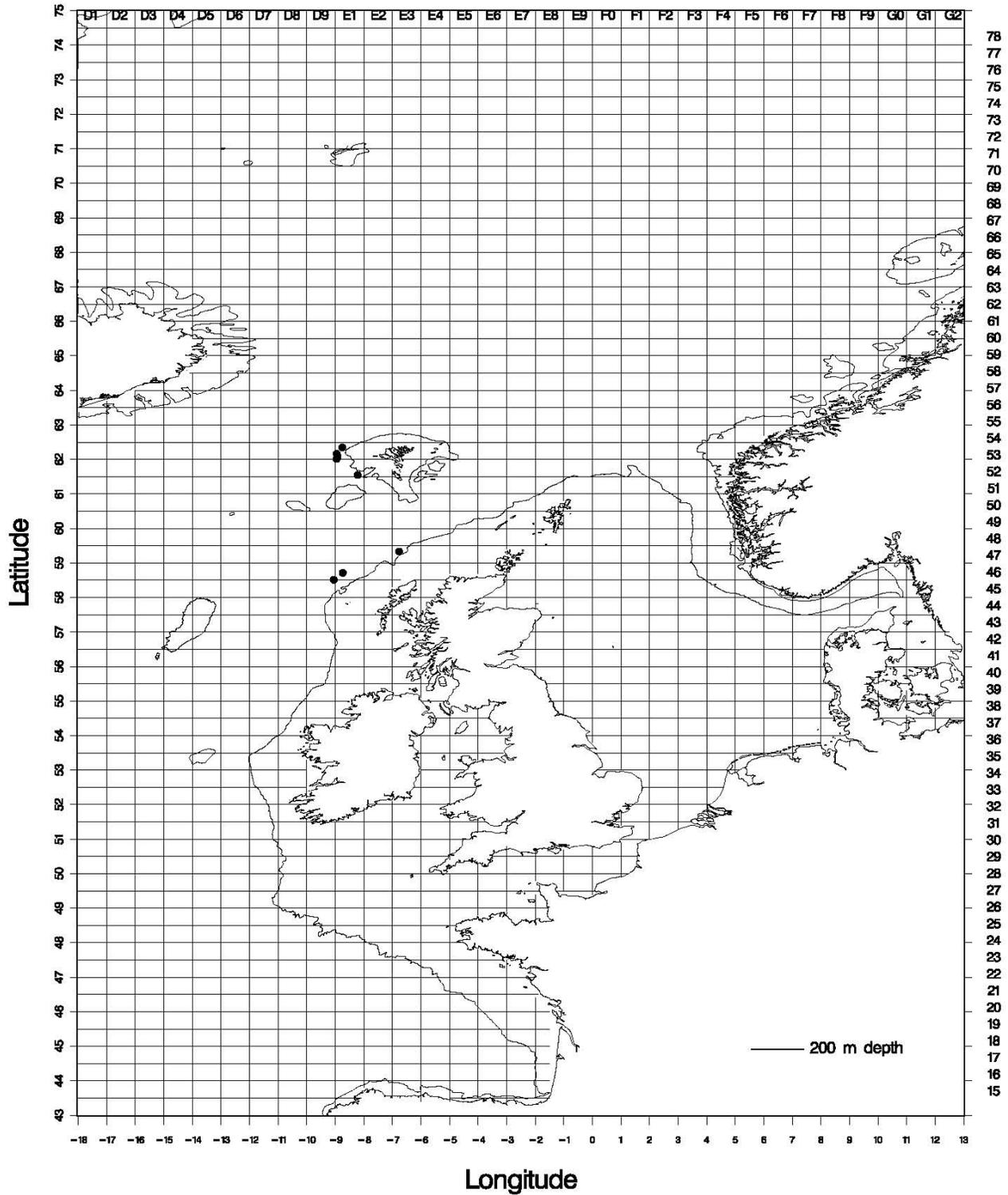


Figure 14b: Greater argentine quarter 2 2003
 Positions of age/length samples of commercial catches

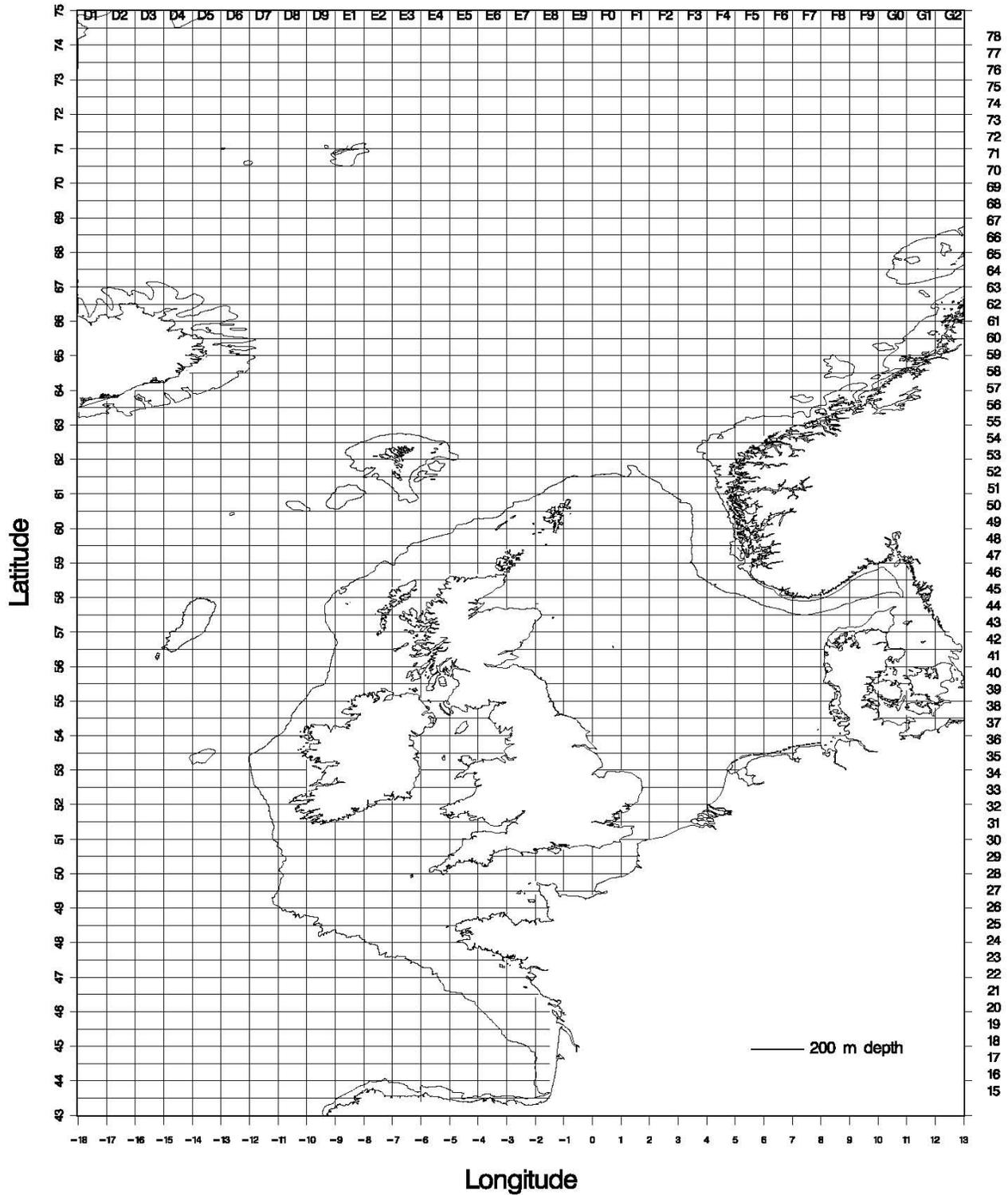


Figure 14c: Greater argentine quarter 3 2003
 Positions of age/length samples of commercial catches

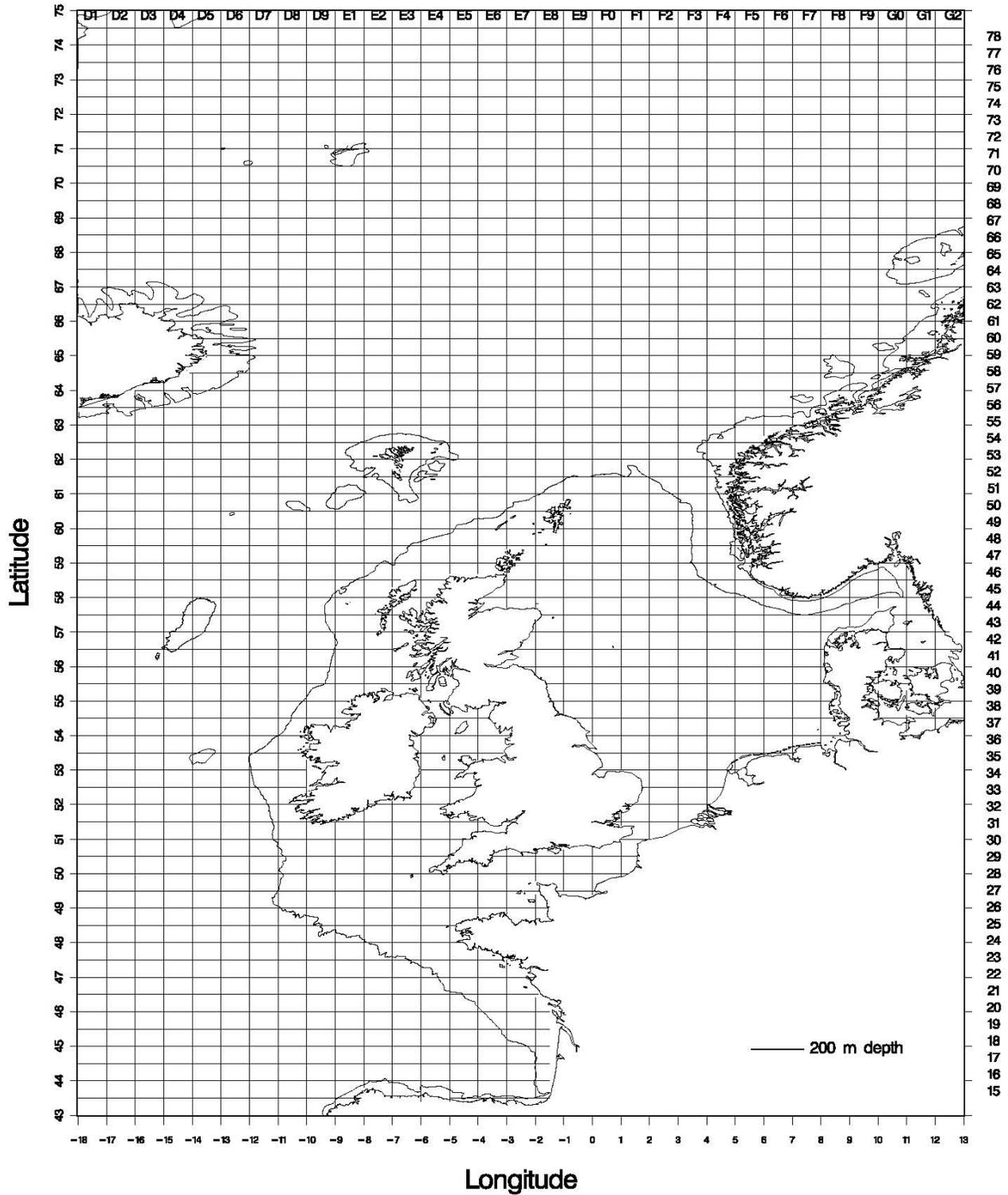


Figure 14d: Greater argentine quarter 4 2003
 Positions of age/length samples of commercial catches

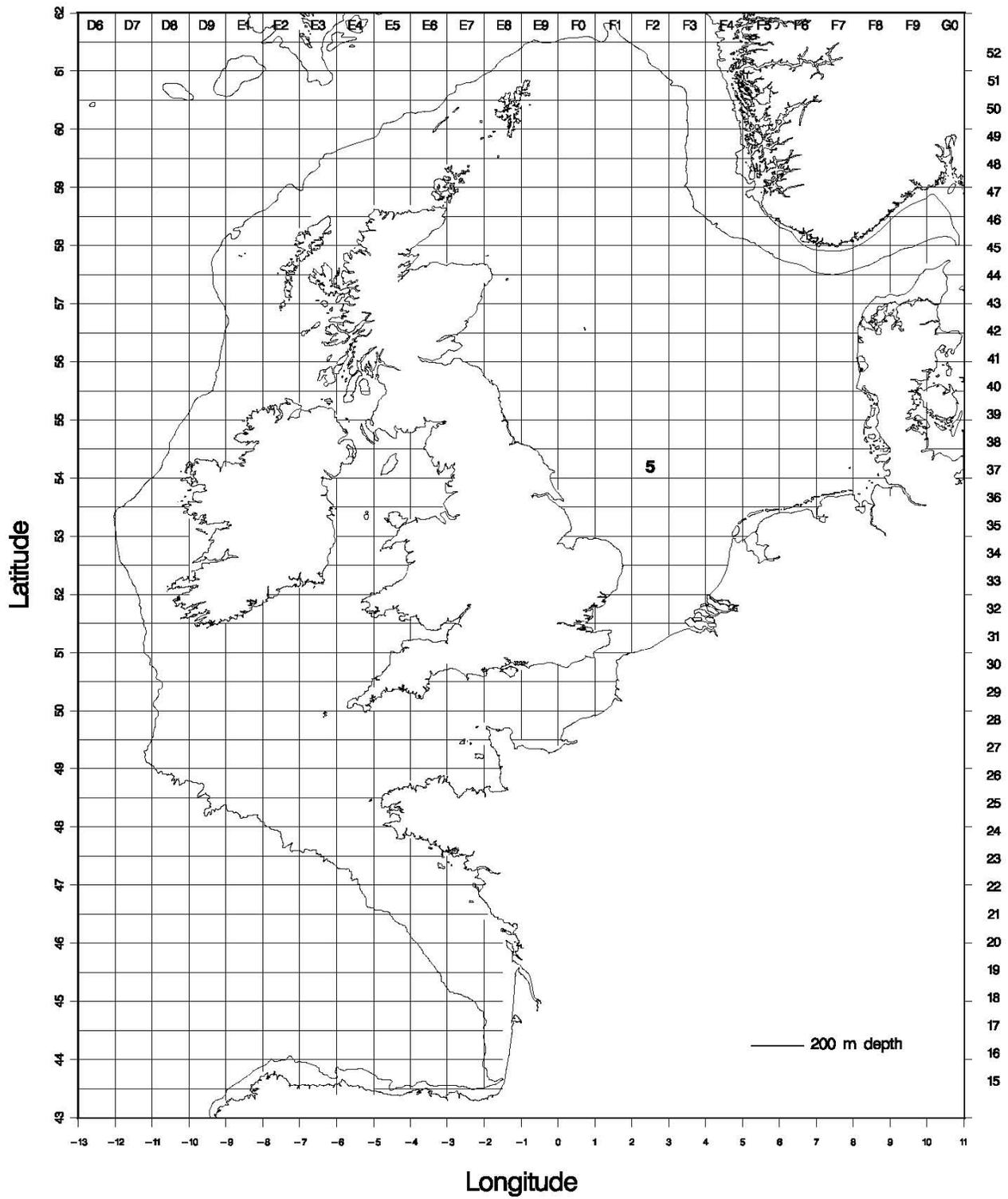


Figure 15a: Nephrops quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

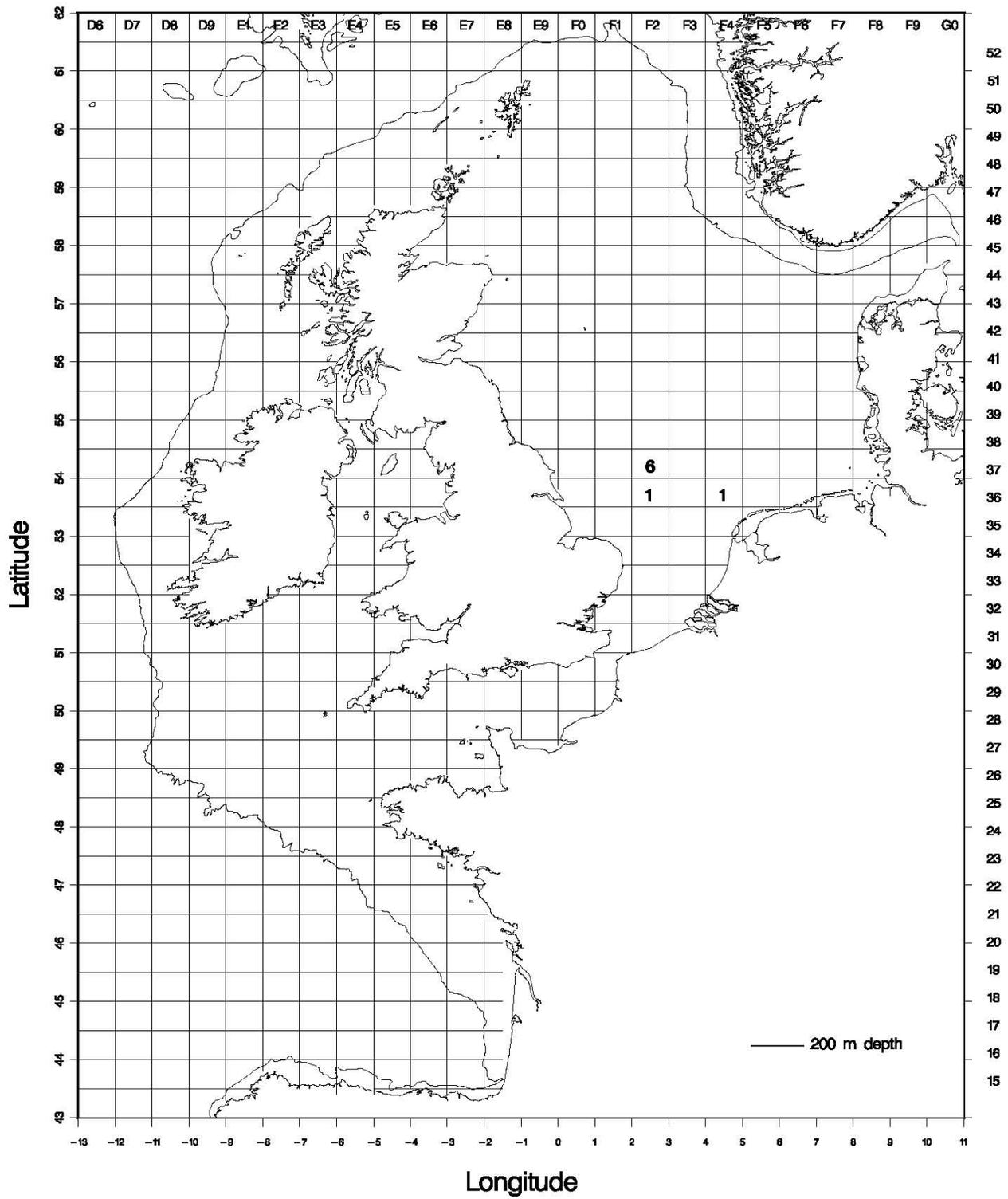


Figure 15b: Nephrops quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

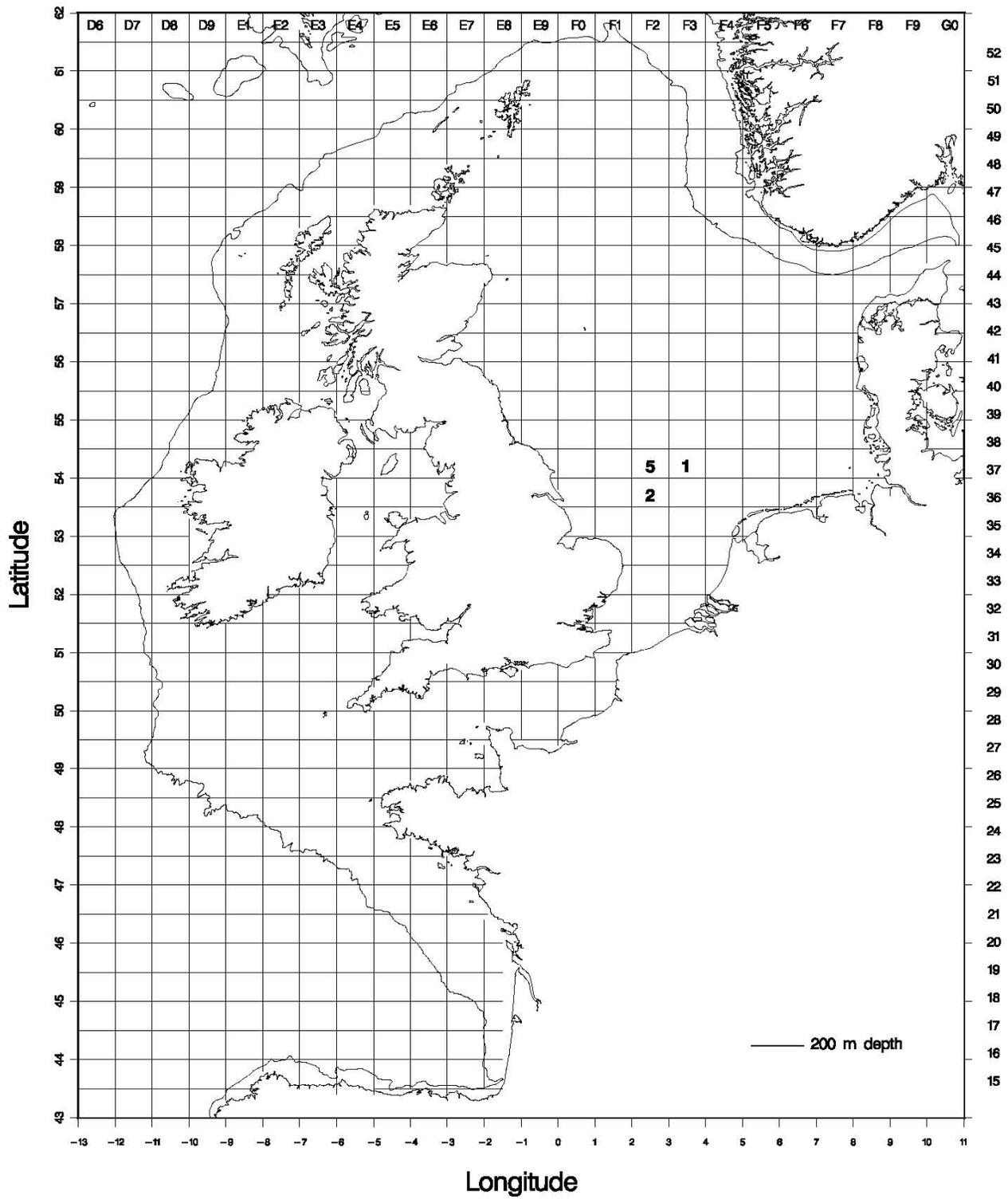


Figure 15c: Nephrops quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

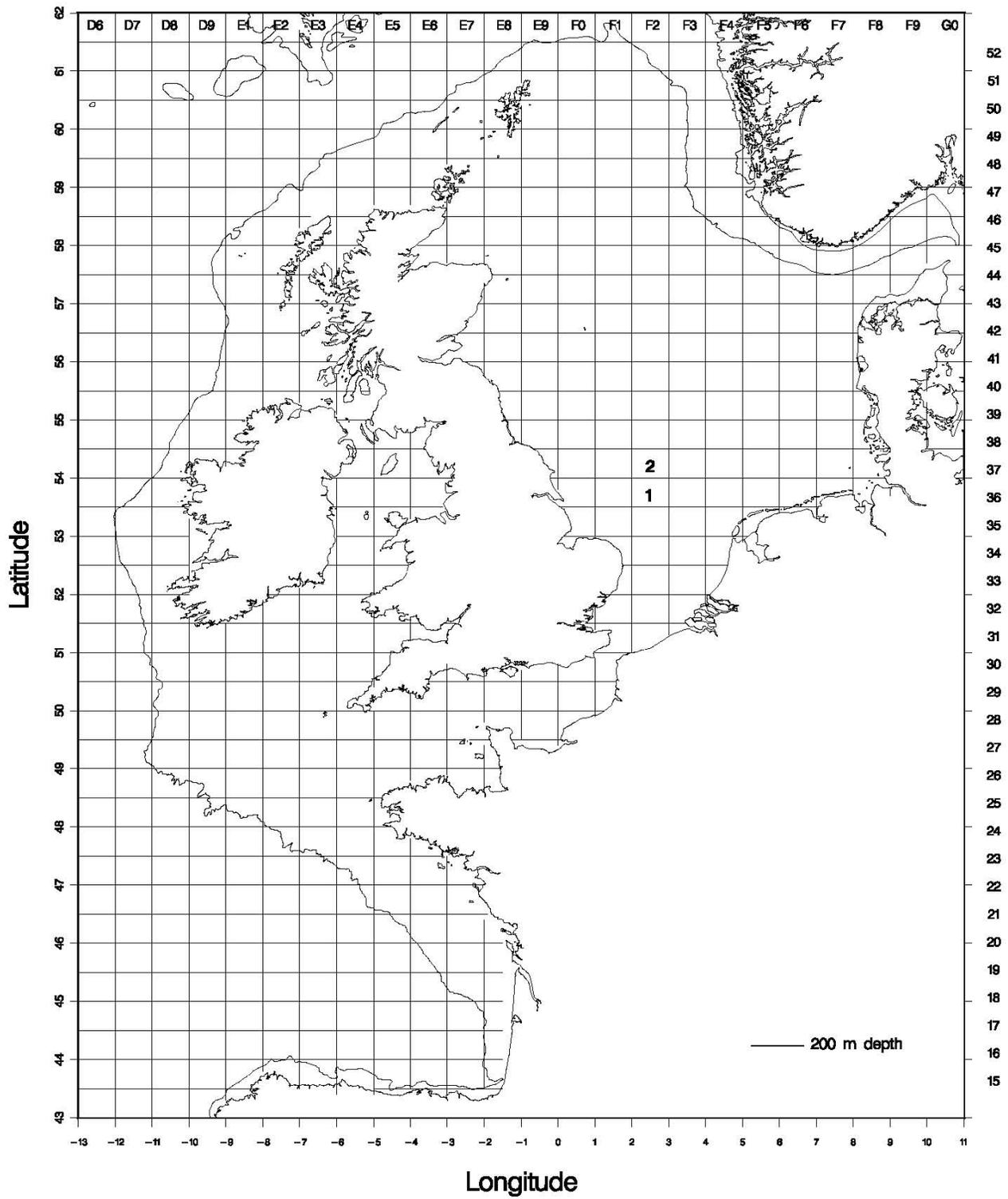


Figure 15d: Nephrops quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

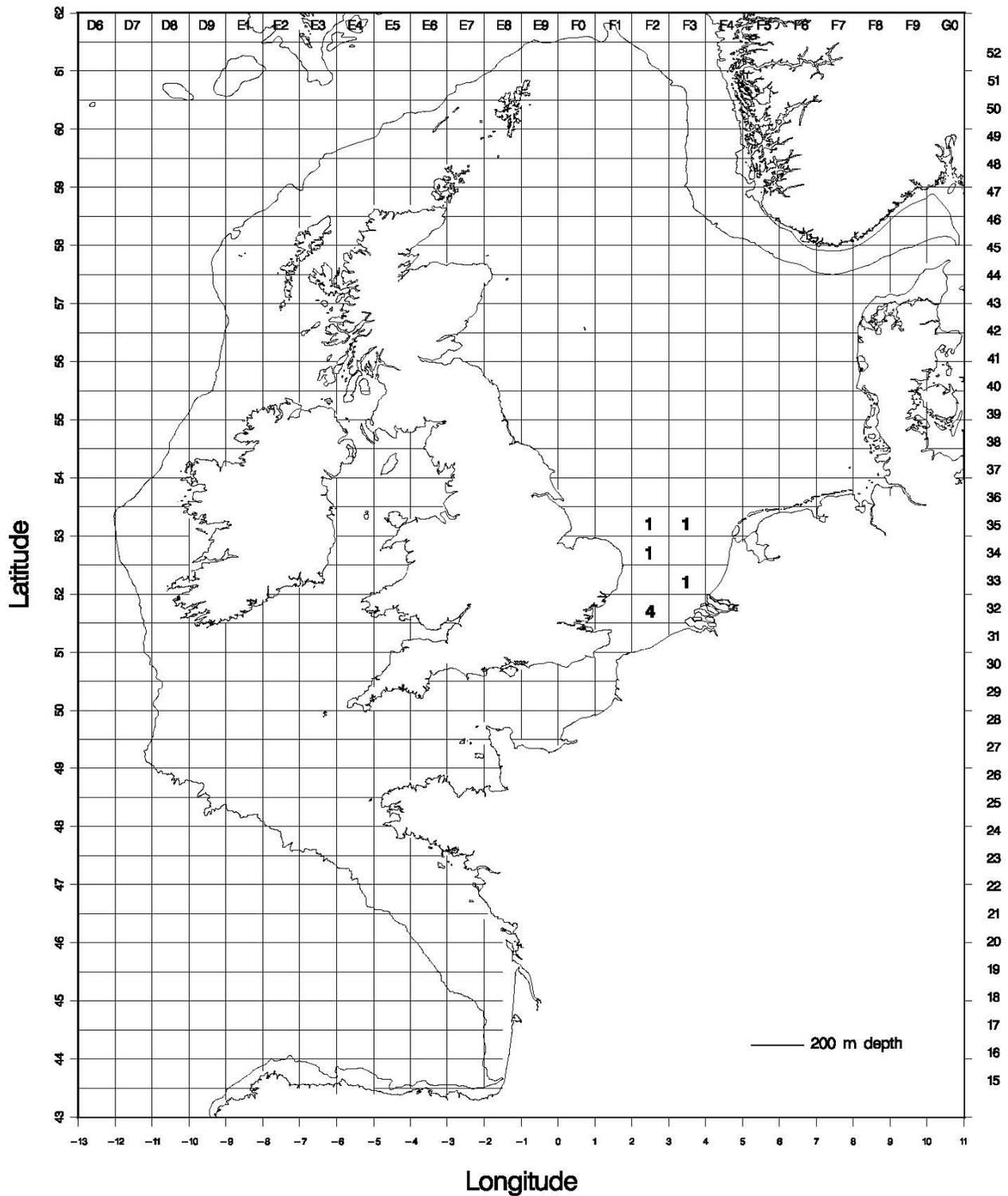


Figure 16a: Ray blond quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

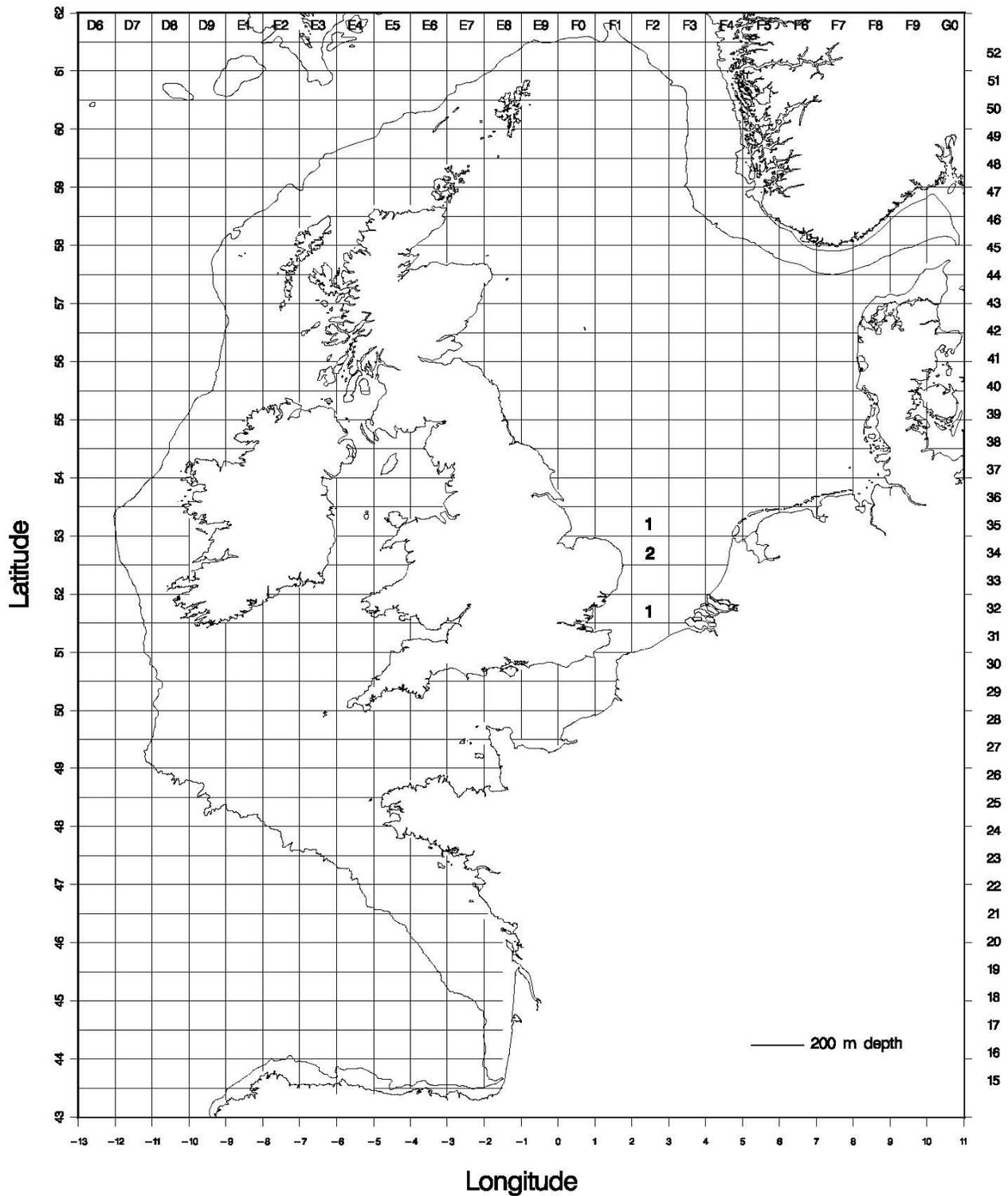


Figure 16b: Ray blond quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

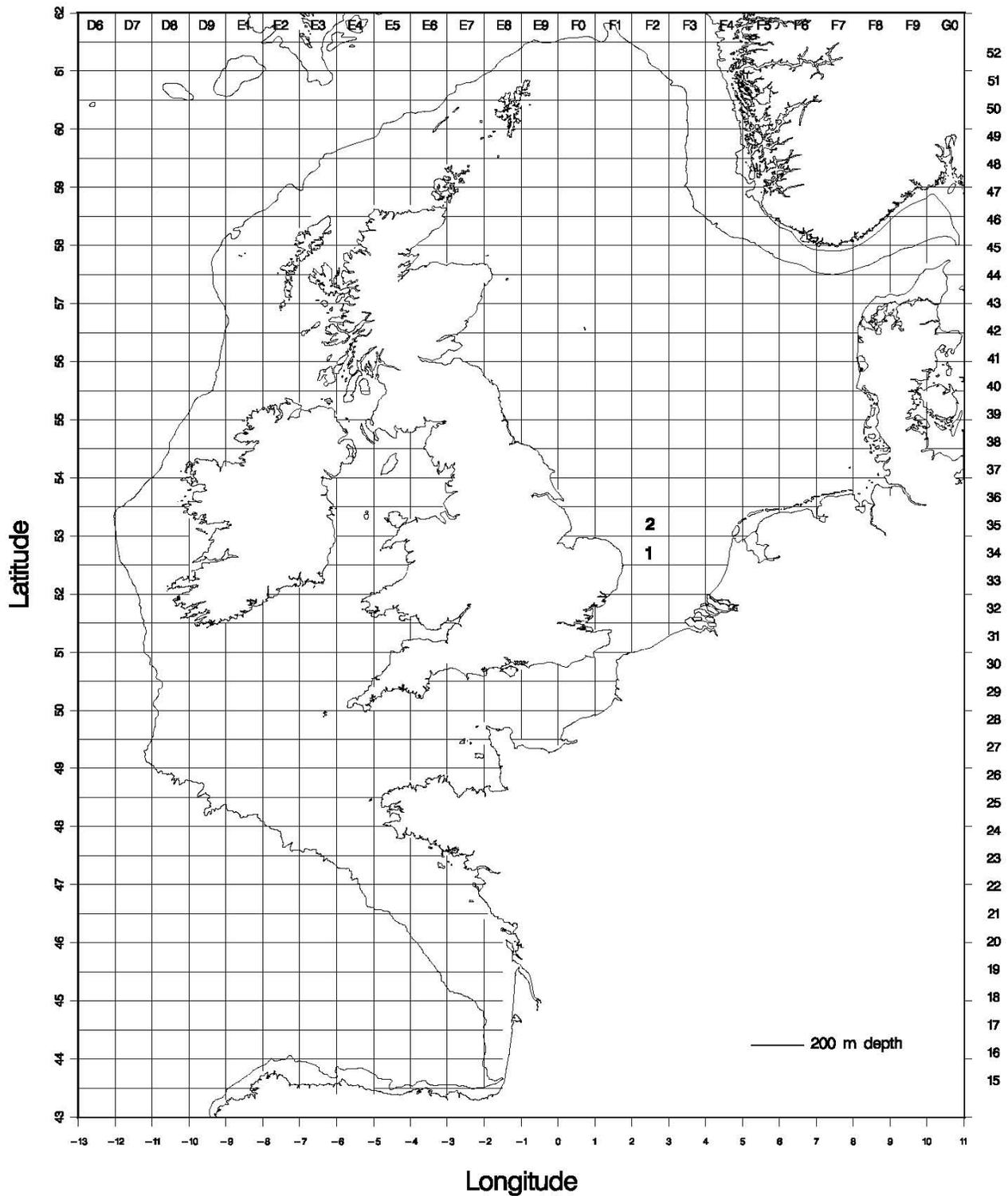


Figure 16c: Ray blond quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

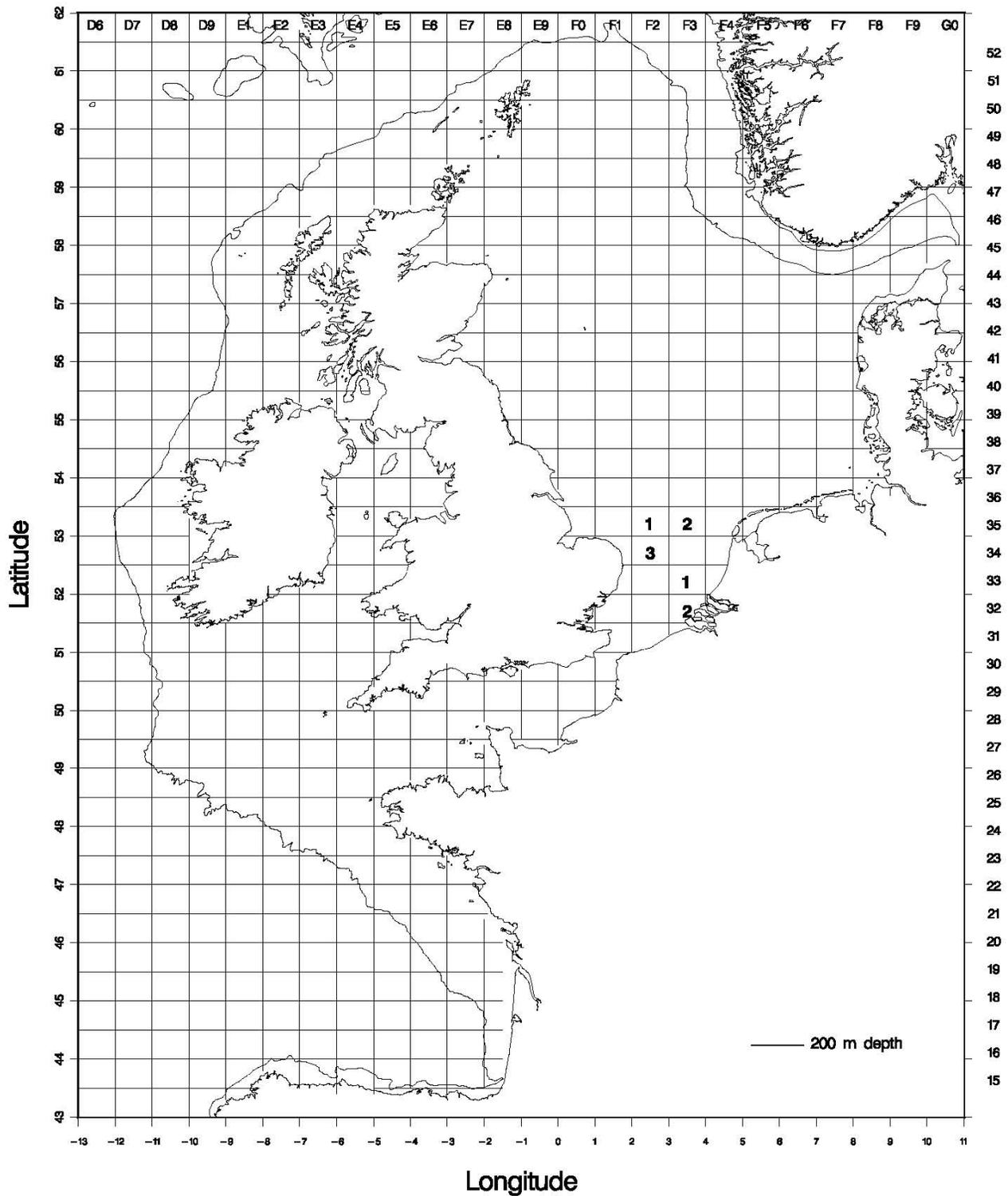


Figure 16d: Ray blond quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

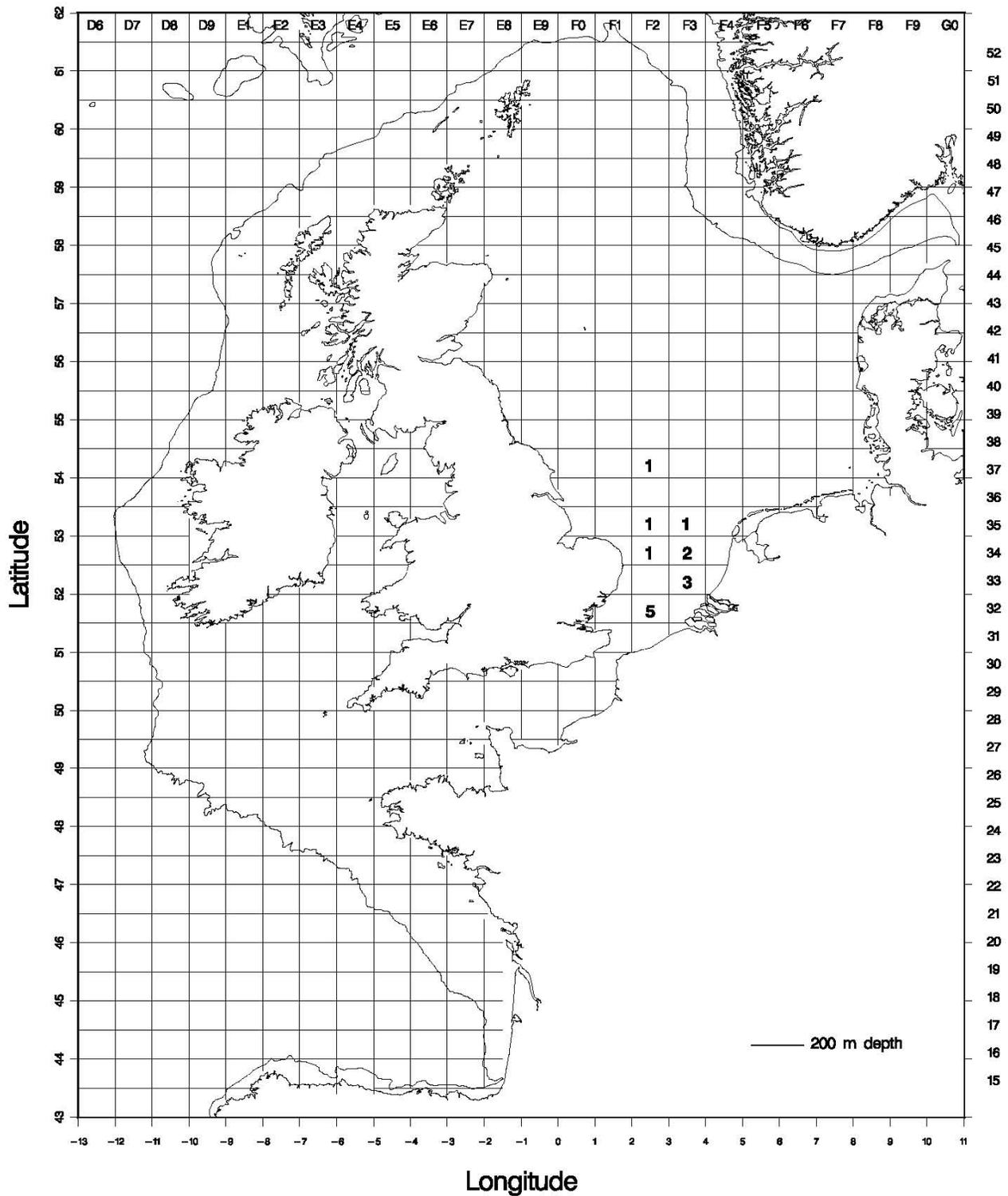


Figure 17a: Ray spotted quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

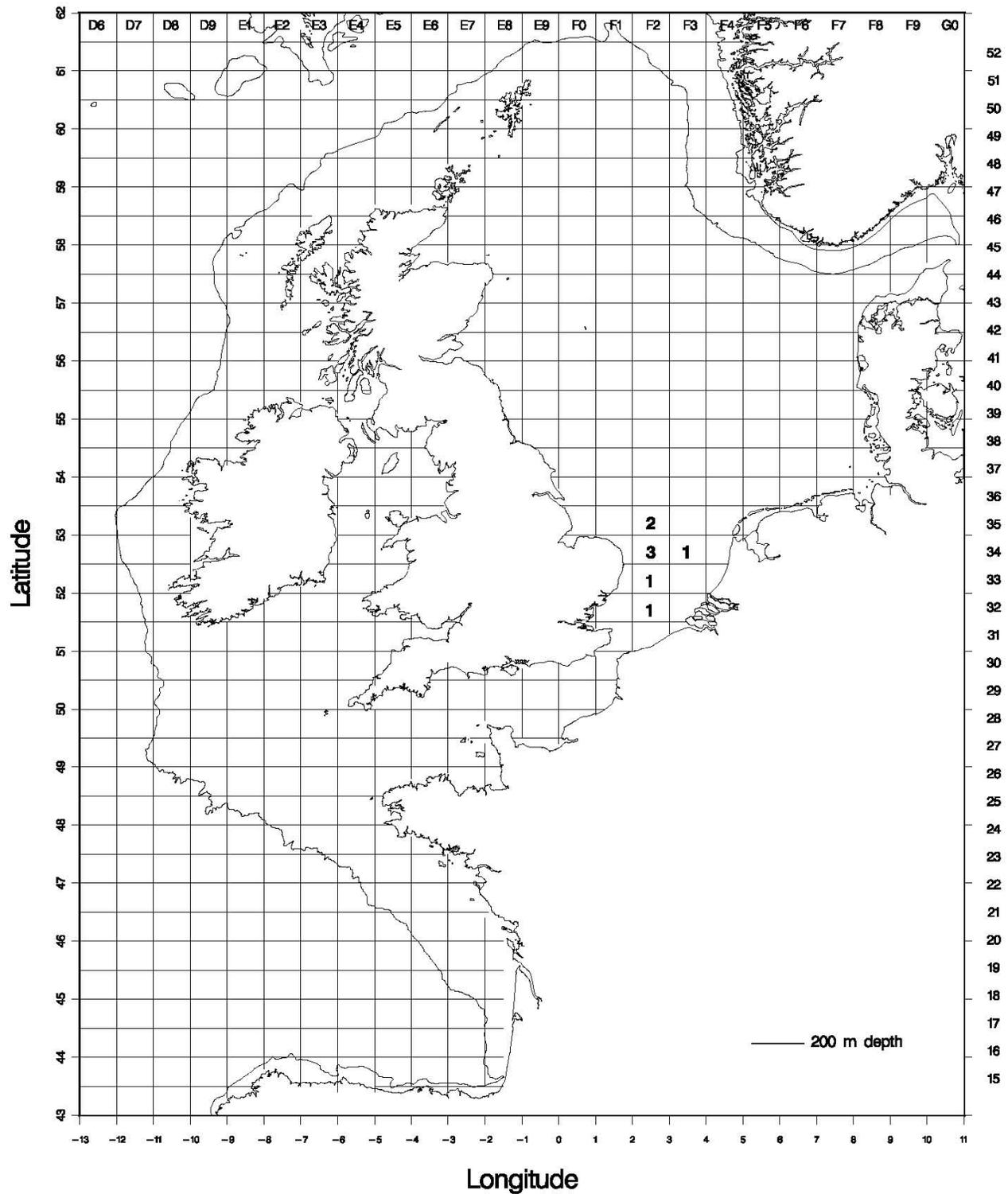


Figure 17b: Ray spotted quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

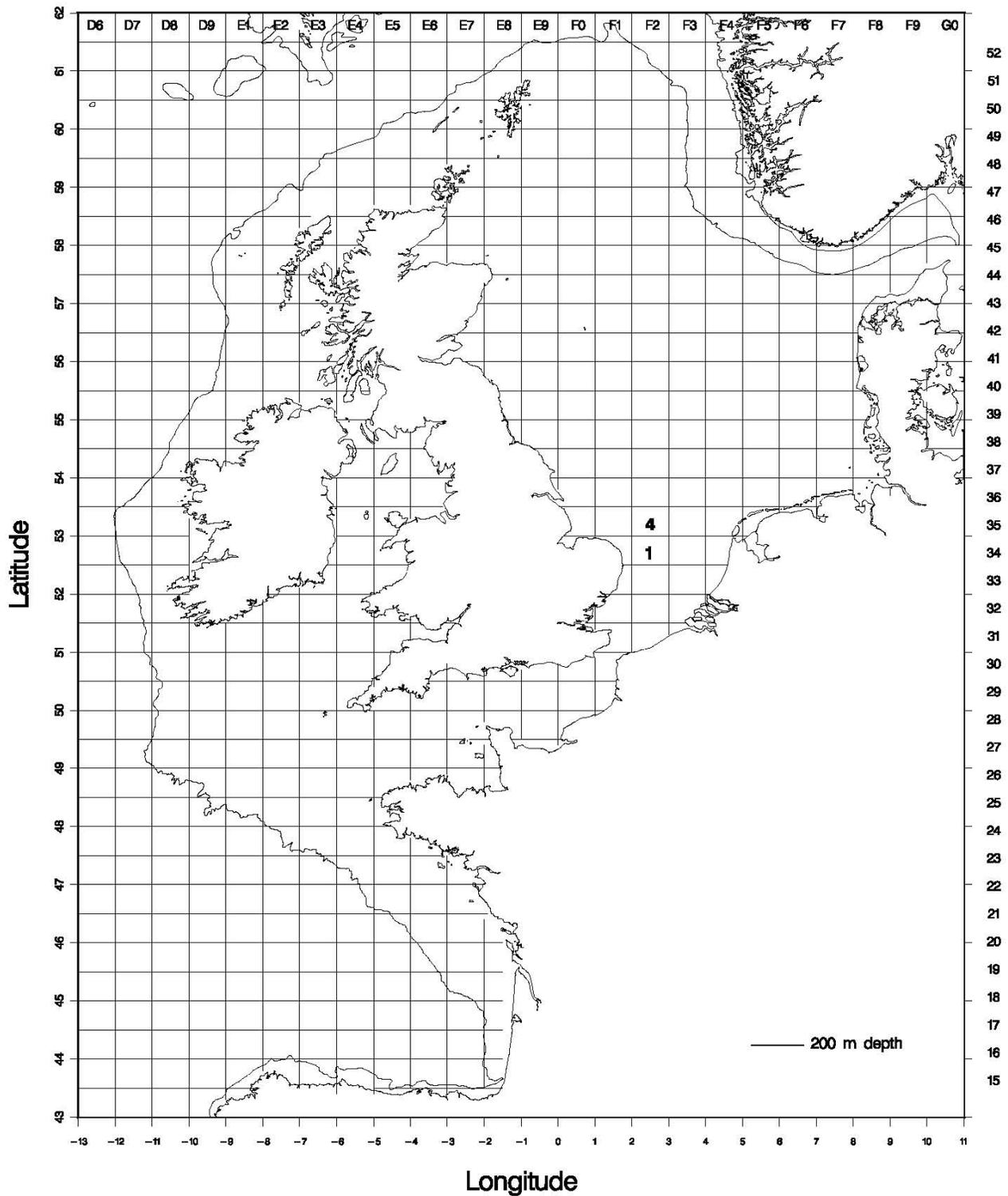


Figure 17c: Ray spotted quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

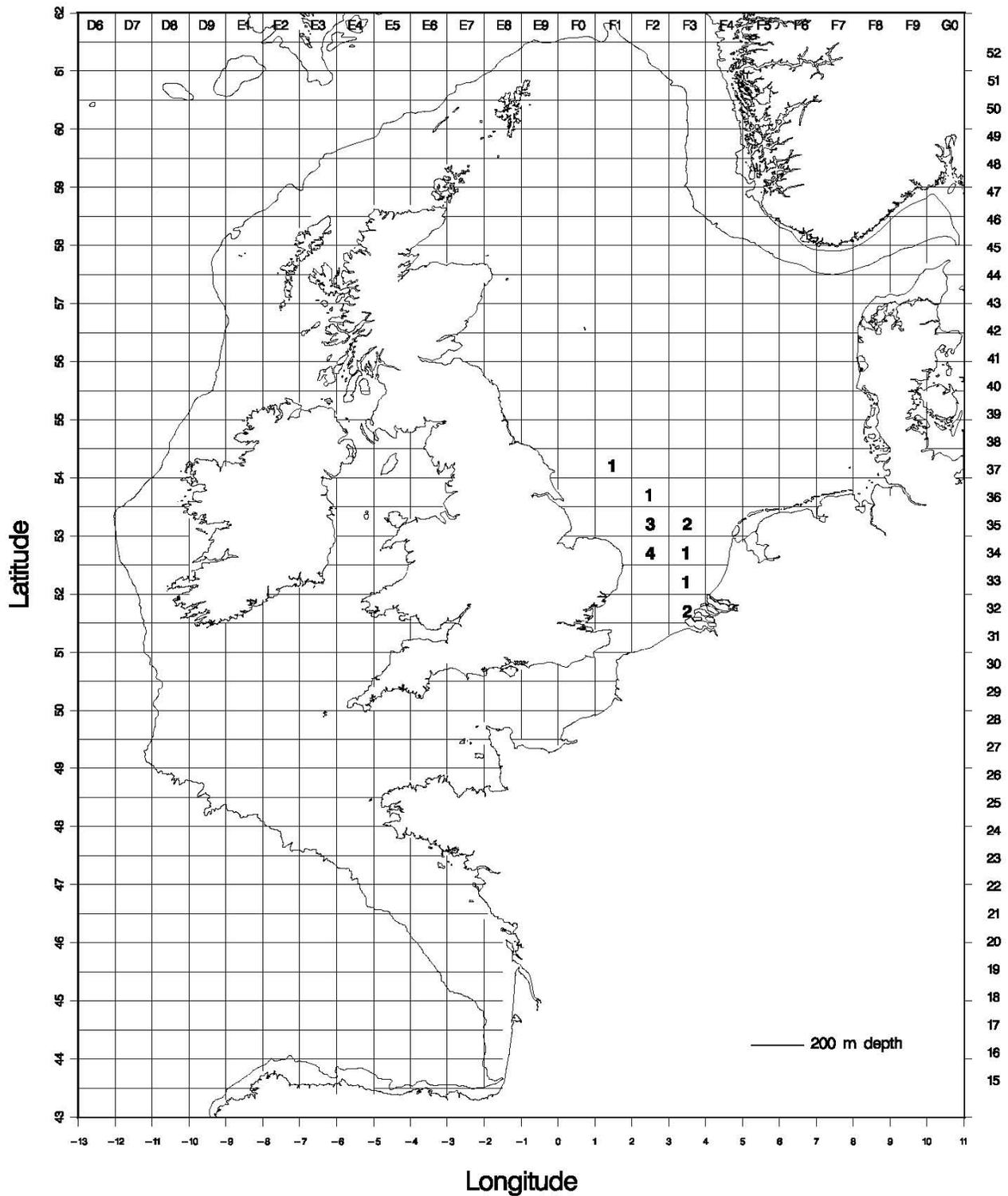


Figure 17d: Ray spotted quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

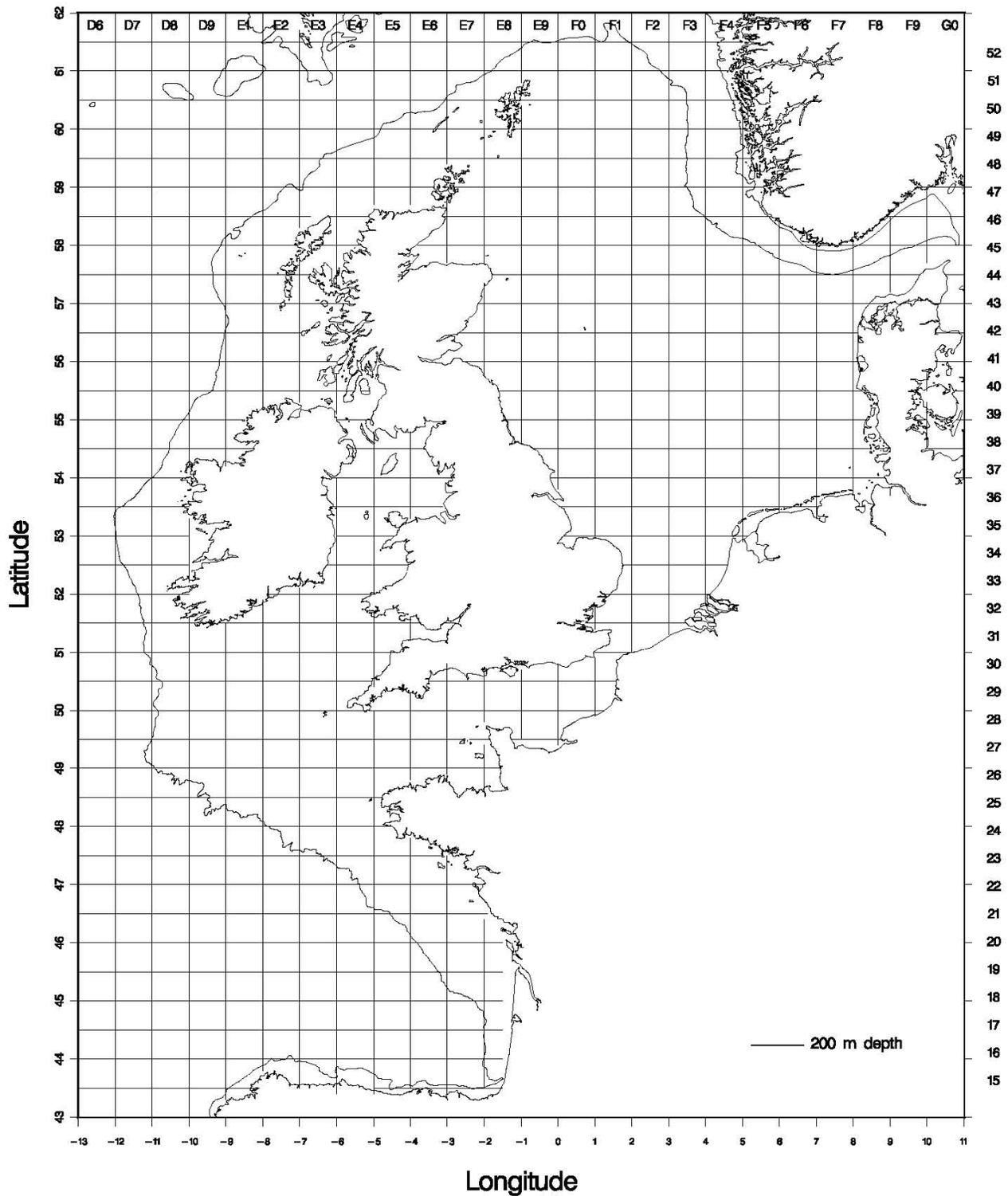


Figure 18a: Ray starry quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

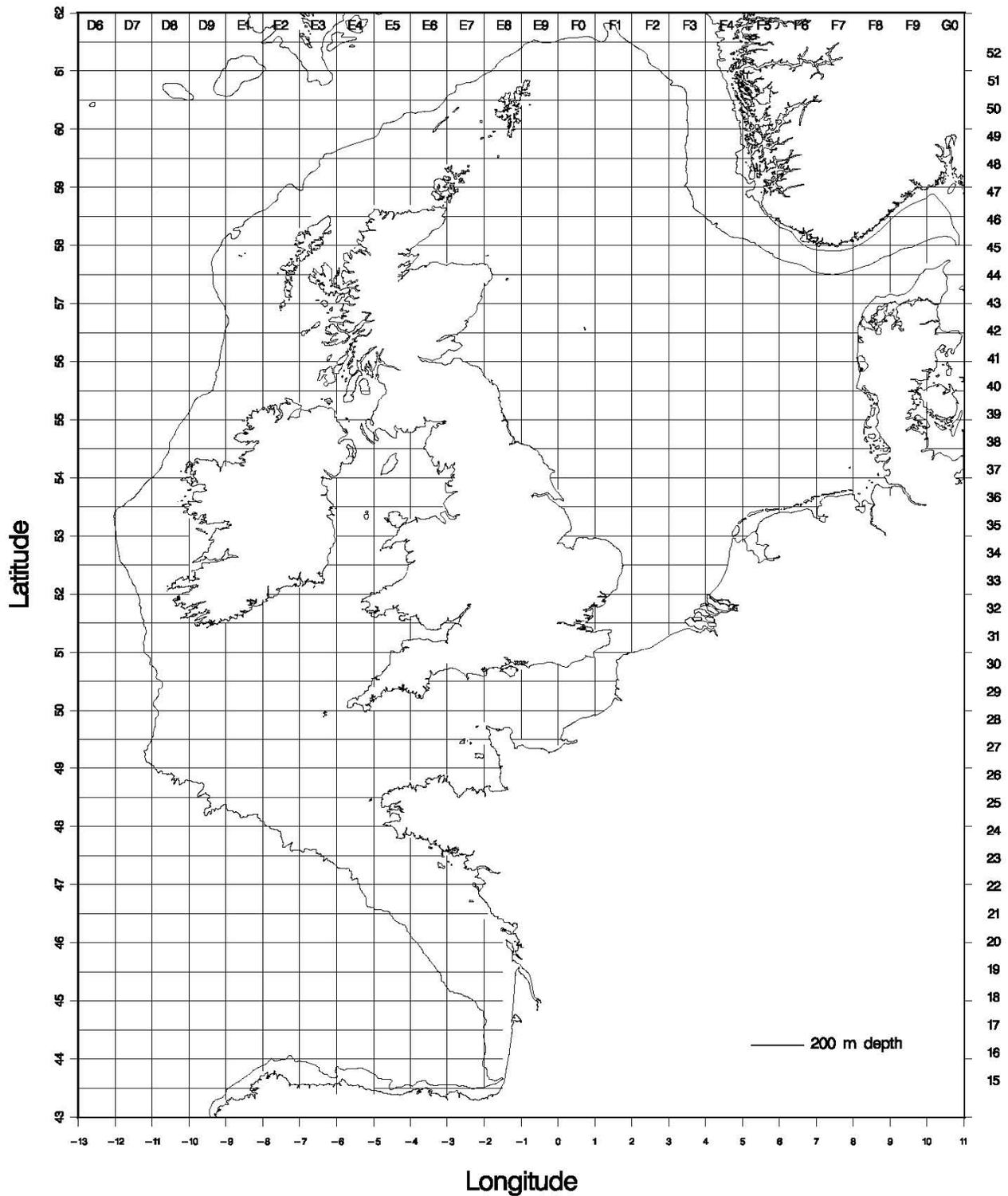


Figure 18b: Ray starry quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

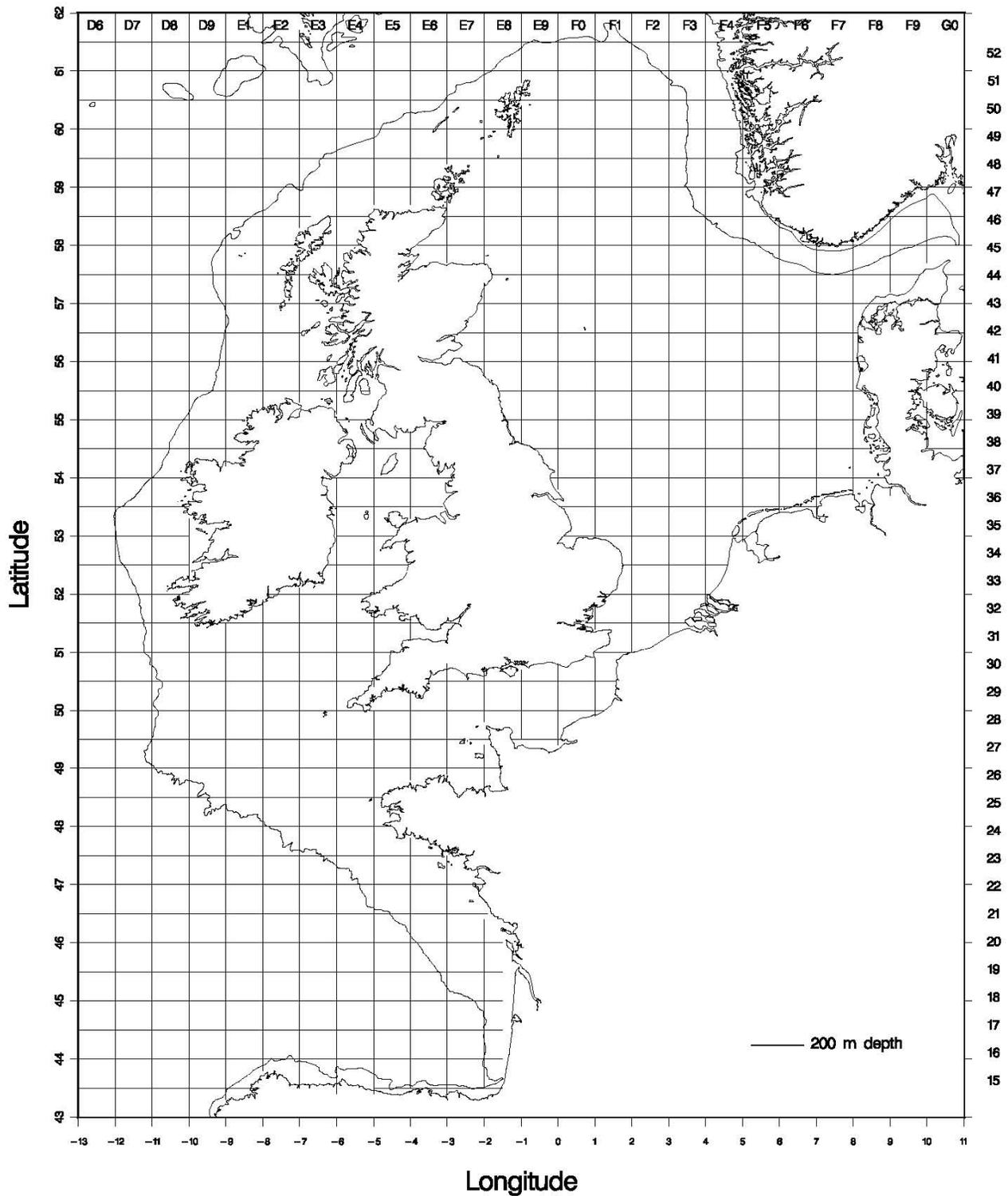


Figure 18c: Ray starry quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

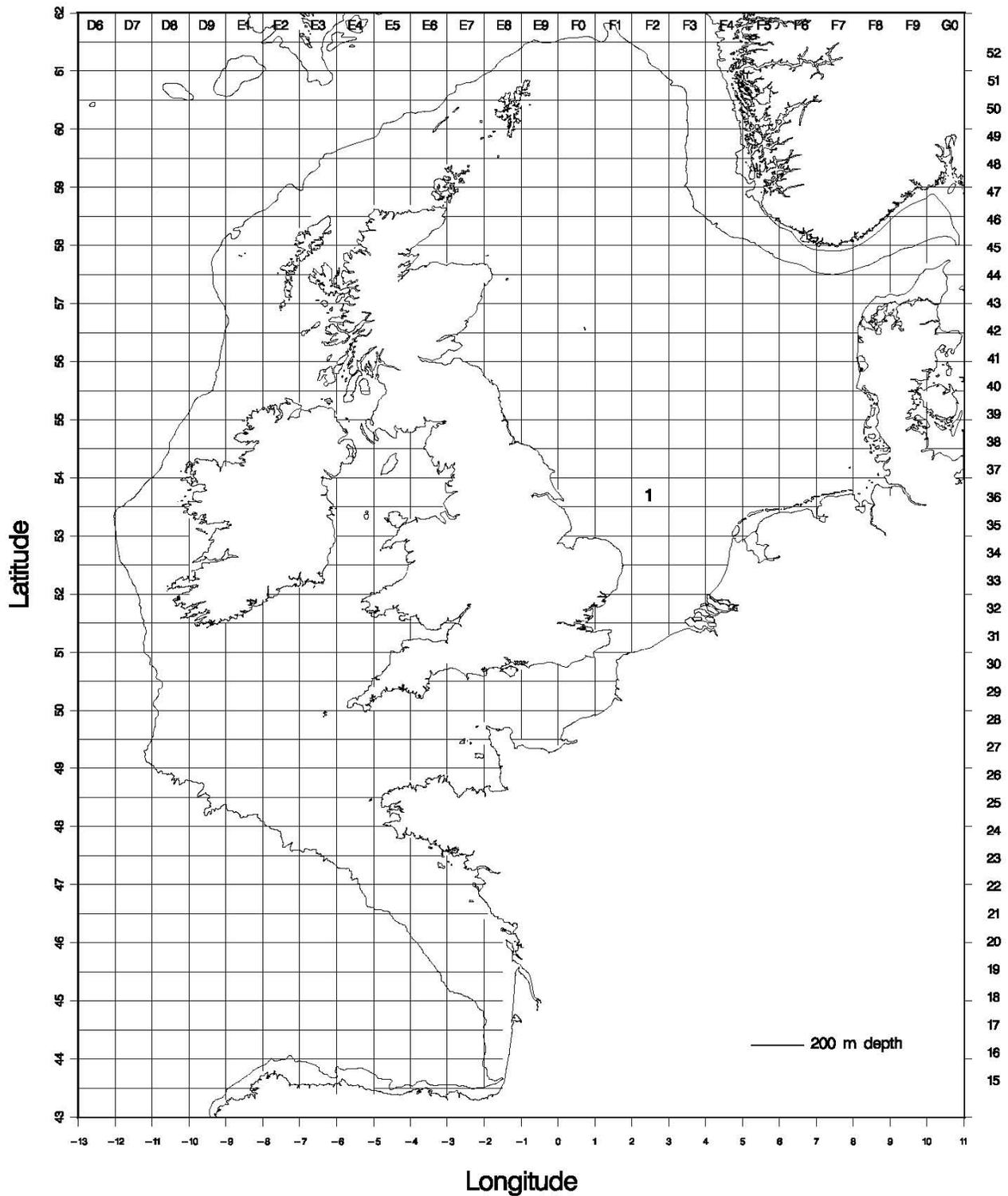


Figure 18d: Ray starry quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle

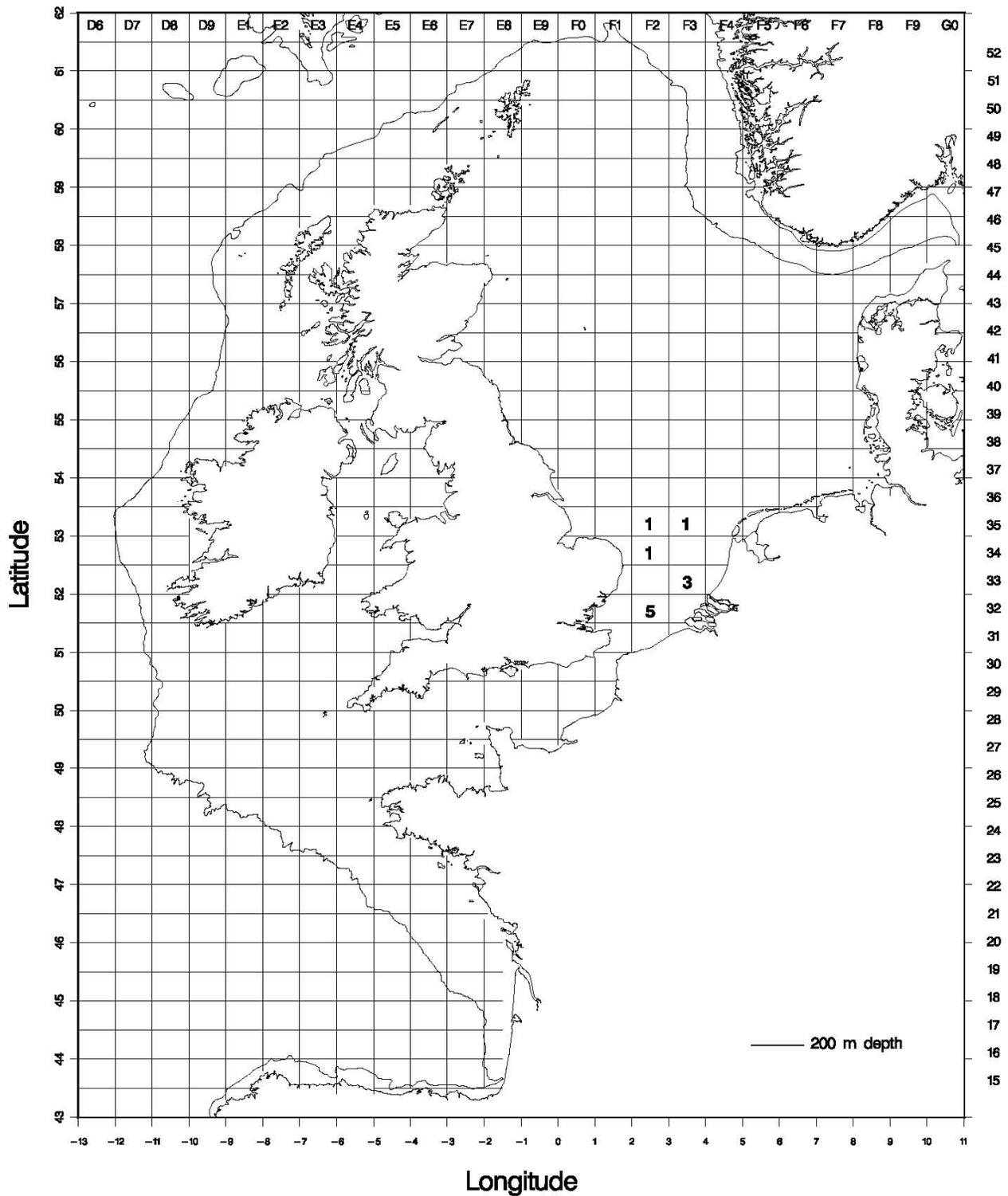


Figure 19a: Ray thornback quarter 1 2003
 Number of length samples of commercial catches per ICES rectangle

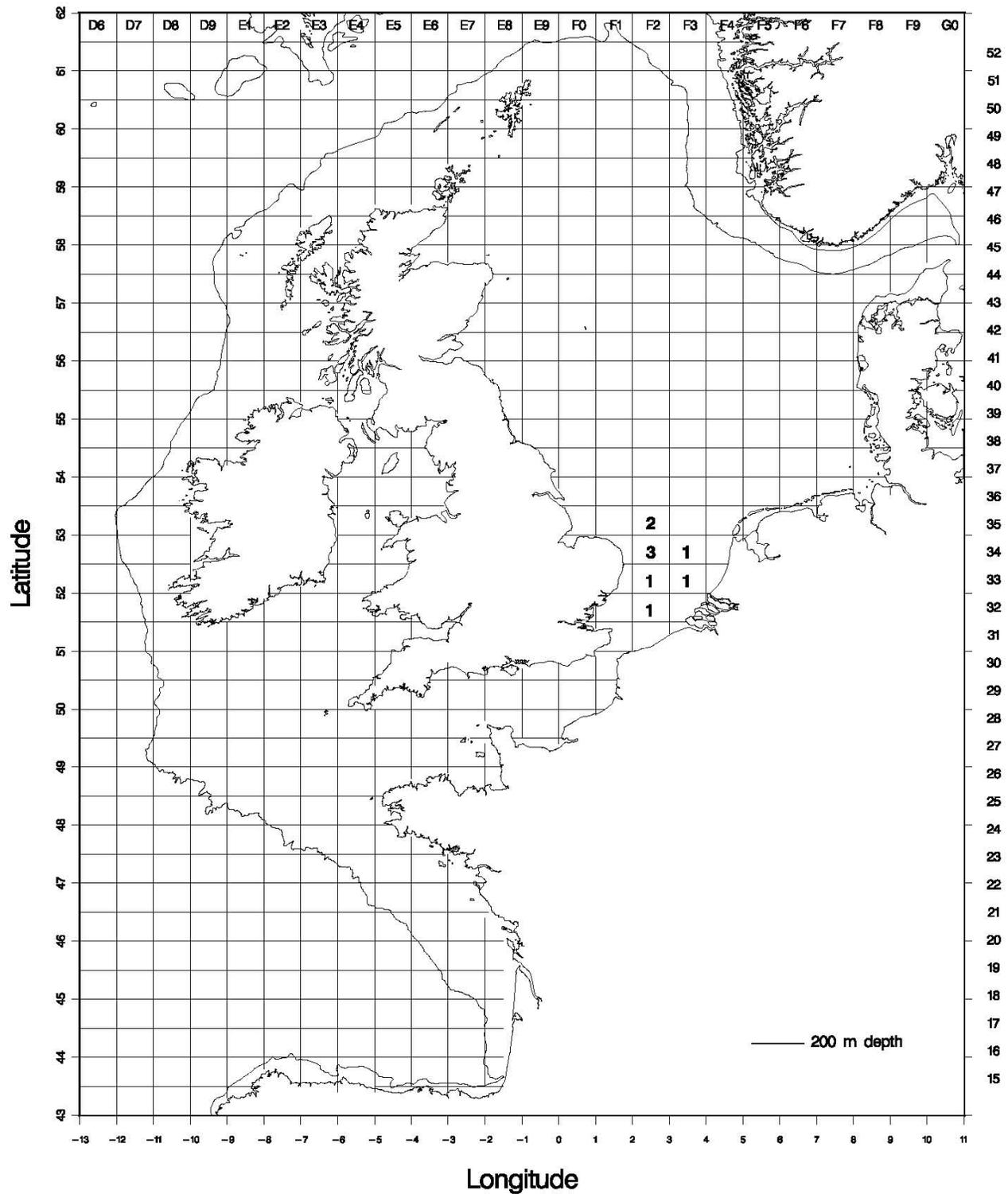


Figure 19b: Ray thornback quarter 2 2003
 Number of length samples of commercial catches per ICES rectangle

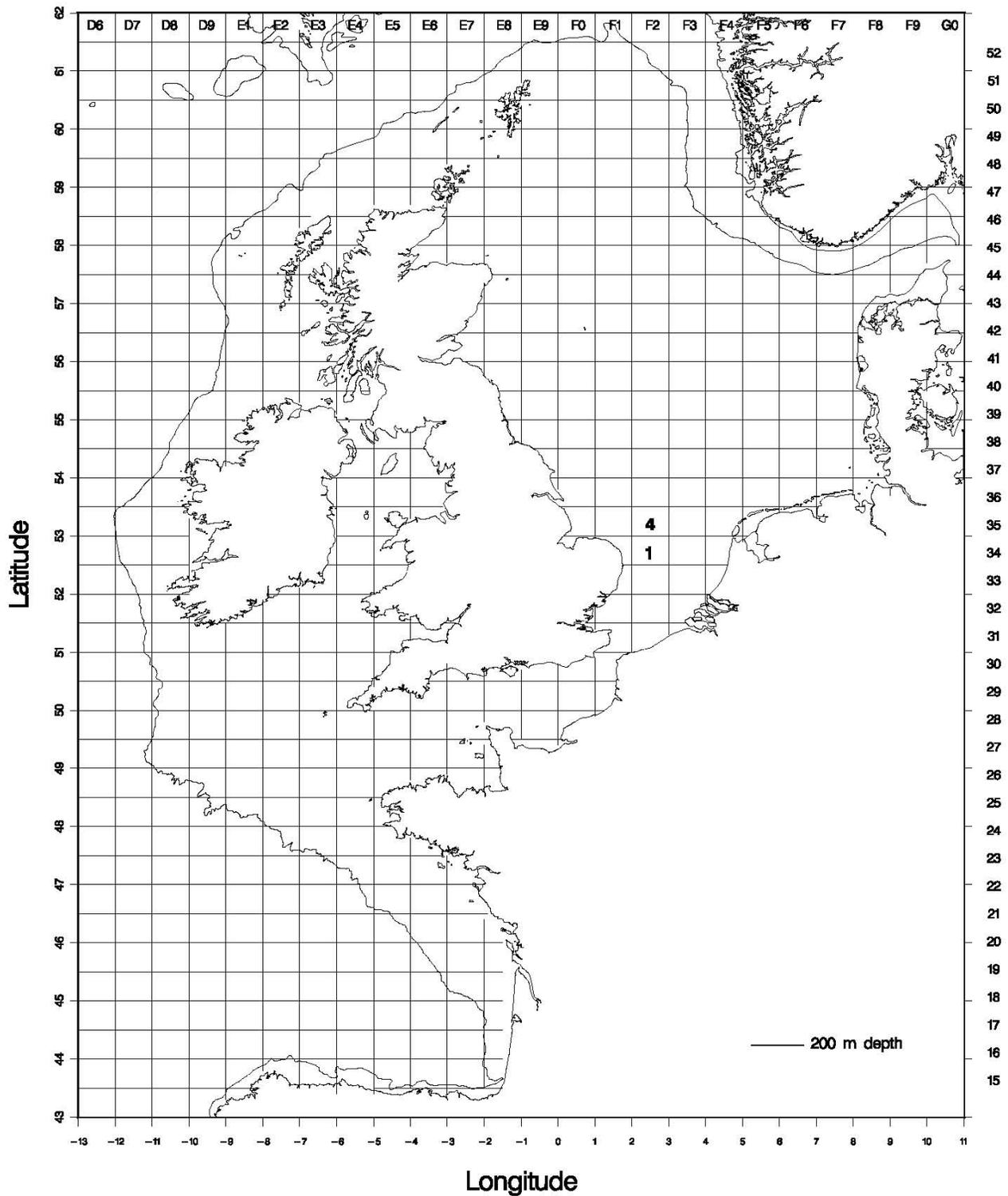


Figure 19c: Ray thornback quarter 3 2003
 Number of length samples of commercial catches per ICES rectangle

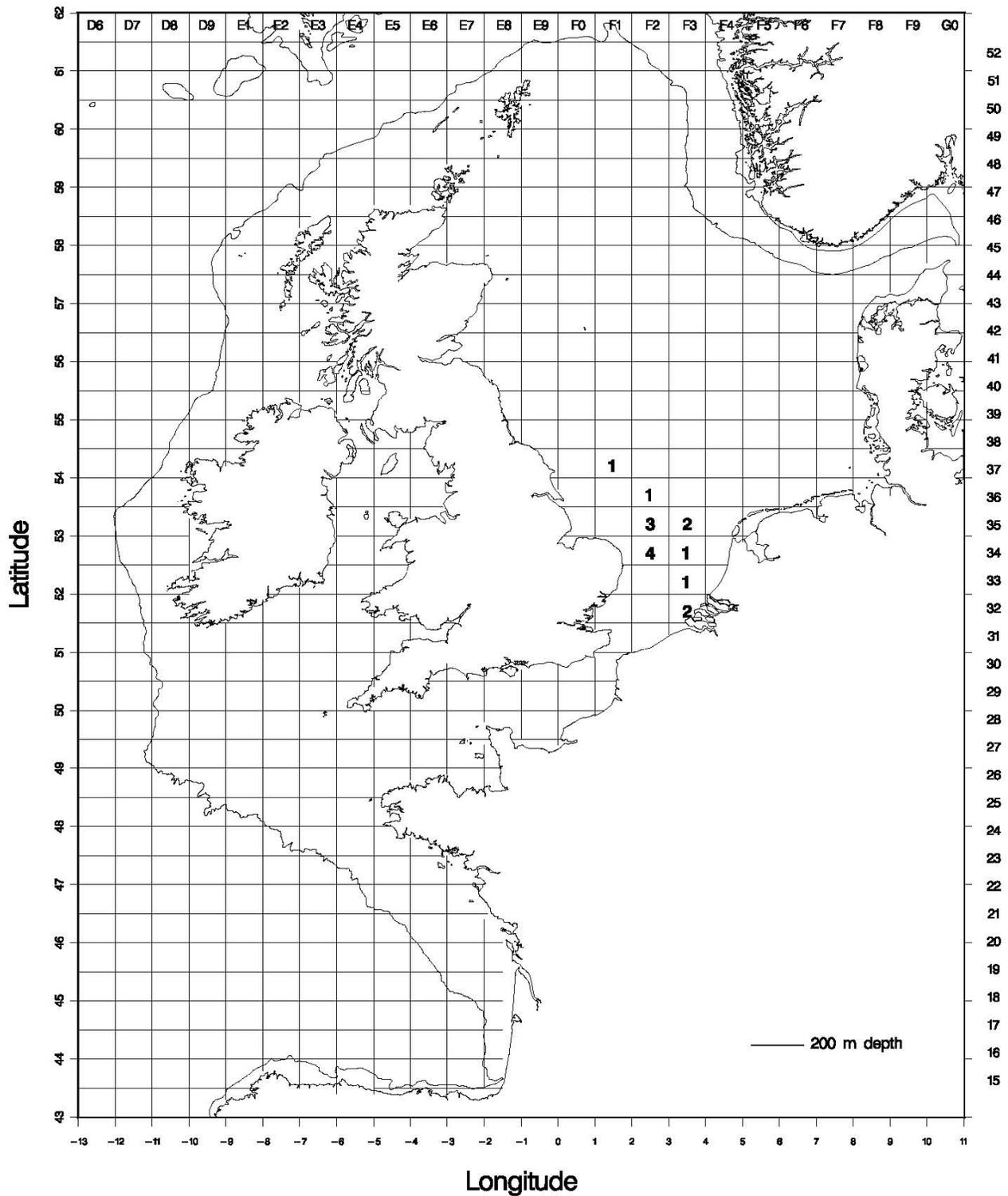


Figure 19d: Ray thornback quarter 4 2003
 Number of length samples of commercial catches per ICES rectangle