

Stichting DLO Centre for Fishery Research (CVO)

P.O. Box 68
1970 AB IJMUIDEN
Phone: 0317-480900
Fax: 0317-487326
Visitor address: Haringkade 1,
1976 CP IJmuiden

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Market Sampling of Landings of Commercial Fish Species in the Netherlands in 2007

S.W. Verver and H.M.J. van Overzee

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Table of Contents

Table of Contents	2
Summary	3
Index tables and figures	4
1 Introduction.....	5
2 Sampling procedures	6
2.1 Plaice, Sole, Turbot, Brill, Lemon sole and Dab.....	6
2.2 Cod and Whiting.....	7
2.3 Herring, Mackerel, Horse Mackerel, Blue Whiting and Greater Argentine	7
2.4 Rays	7
2.5 Norway lobster	8
2.6 Red mullet	8
2.7 Bass	8
2.8 Common shrimp	8
3 Data processing and data usage.....	9
4 Other data.....	10
4.1 Age samples from Dutch research vessel surveys	10
4.2 Discard samples taken on commercial vessels.....	10
Literature.....	11
Tables	12
Figures.....	117

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 programme 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 programme in 2007: which species were sampled, how they were caught, when and where the samples were 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 2007 by IMARES 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, bass, red mullet, common shrimp 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 tables and figures

Detailed information on sampling in **2007** is described in this report in tables and figures. The overview below show the table and figure numbers corresponding to the species described.

2007	Market Sampling	
	Tables	Figures
<i>General tables & figures</i>		
Market size categories	1	
Map of ICES Divisions		1
<i>Overview by species</i>		
Sole	2	2
Plaice	3	3
Turbot	4	4
Brill	5	5
Dab	6	6
Lemon Sole	7	7
Cod	8	8
Whiting	9	9
Herring	10	10
Mackerel	11	11
Horse Mackerel	12	12
Blue Whiting	13	13
Greater Argentine	14	14
Norway Lobster	15	15
Blond Ray	16	16
Spotted Ray	17	17
Starry Ray	18	18
Thornback Ray	19	19
Cuckoo Ray	20	20
Red Mullet	21	21
Bass	22	22
Common Shrimp	23	23
Overview Sampling	24	

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 programmes 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 programmes 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. Amongst other data, these data are used in assessments of the state of the stocks by the International Council for Exploration of the Sea (ICES, www.ices.dk). The biological market sampling programme 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 2007 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's) as laid down in the Common Fishery Policy.

The details of the planning of the 2007 market sampling is given in The Netherlands National Programme for Collection of Fisheries Data in 2007 and carried out in "Programma Wettelijke en Dientsverlenende Taken Visserijonderzoek 2002-2007 (Werkafspraken en werkplan 2007, van Beek 2006). This report presents the actual biological sampling of the landings in 2007, 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 2007 – The Netherlands" (Anon., 2008). Sampling in previous years have been presented in 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 programme in 2007 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, Norway lobster, red mullet, bass and common shrimp.

Details of the biological sampling for the 2007 market-sampling programme as well as the survey sampling are presented in tables and figures. The sample characteristics are stored in an Excel-sheet during the year to provide an insight in the progress of the sampling by species. The tables and figures in this report are based on this spreadsheet and are created automatically by SAS-code developed by Jan Jaap Poos.

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 species 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, even if samples were only taken in 1 quarter, e.g. greater argentine which has a 2nd quarter sample only. The e,f,g,h refer to separate length measurements by quarter by species where 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 2007 by IMARES 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 are taken approximately in proportion to the expected landings in these ports and take 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 2007 – The Netherlands" (Anon., 2008).

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, Urk, Vlissingen and Stellendam

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 mainly sampled in the auctions of IJmuiden and Urk and partly in Stellendam and Vlissingen. 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 2007 by IMARES 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. 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 IMARES staff, are taking unsorted fish samples (frozen blocks of 20-23 kg) from the catches according to instructions obtained from IMARES. 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 IMARES 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 2007 by IMARES 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 IMARES 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 2007 by IMARES 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

2.6 Red mullet

Red Mullet was added to the Dutch market sampling project in 2005. In general, red mullet are mainly caught by twin trawls. Red mullet is a delicate species and threatened with care to enhance the value. The landings are sorted into 4 categories in which two species of Red mullet are mixed sometimes; *Mullus surmuletus* and *Mullus barbatus*. Usually it is avoided to sample the mixed landings. Only length measurements are taken in the auction, therefore there is no age composition available.

2.7 Bass

Bass is included in the market sampling project since 2005. Bass is mainly caught by relative small coastal vessels using gillnets and to a lesser extent other forms of passive gears. Officially, Bass is sorted into 4 market categories and are sampled for ages by these categories. The categories are often mixed, resulting in a mixed sample. The samples are aged by CEFAS colleagues in Lowestoft.

2.8 Common shrimp

Since 2007, Common shrimp (*Crangon crangon*) is included in the Dutch sampling programme. Shrimp are mainly caught by dedicated beamtrawlers fishing in the coastal zone with a fine mesh.

Shrimp are landed already boiled and based on tradecategories, landings are sorted in the auction into 3 categories. Samples are taken after sorting and a representative number of shrimp is measured. No ageing takes place on shrimp.

3 Data processing and data usage

All data collected in 2007 and in previous years are stored in a 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 2007, but it does not include an evaluation of the sampling, as this is included in the "Technical Report of Activity 2007 – The Netherlands" (Anon., 2008).

4 Other data

4.1 Age samples from Dutch research vessel surveys

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 described in this report.

4.2 Discard samples taken on commercial vessels

In 2007 discard sampling was carried on board of beam trawlers and freezer trawlers in all quarters. The discard sampling in 2007 is reported in Van Helmond (in prep.) Since 2003, details of the biological sampling discard surveys are no longer described 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 2007 by IMARES 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 : 2b

IMARES, 18APR2008 11:27:11

Species : Sole
 Year : 2007, 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	111014	06/04/2007	UK153	Beam trawl	37F2	94	267	214	256	524		50	50
	111022	16/04/2007	UK44	Beam trawl	36F4	73	224	142	145	255		50	50
	111032	14/05/2007	UK382	Beam trawl	37F6	137	246	181	255	199		50	50
	111033	25/05/2007	TX3	Beam trawl	36F4	53	223	201	291	1428		50	50
	111039	15/06/2007	TX14	Beam trawl	37F6	55	133	135	168	507		50	50
	111041	18/06/2007	UK197	Beam trawl	37F5	90	224	122	124	426		50	50
	111043	18/06/2007	UK217	Beam trawl	36F5	48	162	141	155	668		50	50
	111044	29/06/2007	TX19	Beam trawl	37F1	24	139	352	663	832		50	50
						574	1618	1488	2057	4839		400	400
IVC	111015	06/04/2007	TX1	Beam trawl	35F2	132	412	452	546	523		50	50
	111016	06/04/2007	TX38	Beam trawl	35F2	86	312	244	243	339		50	50
	111017	13/04/2007	OD50	Beam trawl	33F4	46	109	69	152	236		50	50
	111018	13/04/2007	ARM15	Beam trawl	32F2	122	252	392	580	820		50	50
	111019	13/04/2007	GO23	Beam trawl	34F2	128	332	417	492	508		50	50
	111020	13/04/2007	GO44	Beam trawl	33F3	64	226	172	265	598		50	50
	111021	16/04/2007	UK226	Beam trawl	35F4	56	192	146	210	454		50	50
	111023	16/04/2007	UK88	Beam trawl	35F4	38	164	118	145	412		50	50
	111024	11/05/2007	GO56	Beam trawl	34F3	67	245	156	240	342		50	50
	111025	11/05/2007	TX94	Beam trawl	34F4	81	290	120	241	396		50	50
	111026	11/05/2007	VLI26	Beam trawl	32F2	118	321	343	531	590		50	50
	111027	11/05/2007	VLI25	Beam trawl	32F2	103	300	356	551	647		50	50
	111028	11/05/2007	GO9	Beam trawl	35F2	56	216	252	335	317		50	50
	111029	11/05/2007	GO27	Beam trawl	34F2	35	173	126	263	581		50	50
	111030	14/05/2007	LE62	Beam trawl	35F5	80	250	158	171	380		50	50
	111031	14/05/2007	LE63	Beam trawl	35F5	136	400	333	216	358		50	50
	111034	25/05/2007	TX43	Beam trawl	35F4	54	222	209	241	1431		50	50
111035	08/06/2007	VLI27	Beam trawl	32F2	69	192	244	357	561		50	50	
111036	08/06/2007	ARM17	Beam trawl	32F2	60	242	274	547	992		50	50	

Table : 2d IMARES, 18APR2008 11:27:11

Species : Sole
 Year : 2007, 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	Cat 4	Cat 5	Sample weight (kg)	Number measured	Number aged
IVB	111060	08/10/2007	UK2	Beam trawl	37F7	25	111	356	1528	1136		50	50
	111061	12/10/2007	TX36	Beam trawl	36F1	60	246	405	1077	1907		50	50
	111063	19/11/2007	UK170	Twin trawl	37F4	72	34	63	97	157		50	50
	111064	19/11/2007	UK52	Beam trawl	36F4	78	150	256	883	924		50	50
							235	541	1080	3585	4124		200
IVC	111058	05/10/2007	GO56	Beam trawl	35F3	27	96	388	1452	1093		50	50
	111059	05/10/2007	OD6	Beam trawl	32F3	42	98	356	1350	910		50	50
	111062	09/11/2007	GO23	Beam trawl	34F2	98	374	468	863	963		50	50
	111065	10/12/2007	TX36	Beam trawl	35F2	69	213	370	1142	1436		50	50
	111066	10/12/2007	HD29	Beam trawl	35F3	32	111	307	1350	896		50	50
	111067	14/12/2007	ARM14	Beam trawl	31F2	223	265	583	1843	3158		50	50
	111068	14/12/2007	OD6	Beam trawl	32F3	155	218	539	697	295		50	50
	111069	14/12/2007	GO56	Beam trawl	33F3	58	219	688	999	537		50	50
	111070	09/11/2007	ARM15	Beam trawl	32F2	74	123	463	1620	2409		50	50
						778	1717	4162	11316	11697		450	450
						1013	2258	5242	14901	15821		650	650
						=====	=====	=====	=====	=====		=====	=====

Table : 4c IMARES, 18APR2008 11:27:11

Species : Turbot
 Year : 2007, 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	Cat 4	Cat 5	Sample weight (kg)	Number measured	Number aged
IVB	141016	09/07/2007	GY287	Beam trawl	40F3	13	44	38	81	80		53	53
	141018	10/09/2007	UK44	Beam trawl	38F6	9	20	46	193	287		47	47
						22	64	84	274	367		100	100
IVC	141014	06/07/2007	GO28	Beam trawl	33F2	18	18	25	121	154		47	47
	141015	06/07/2007	OD50	Beam trawl	32F3	9	13	6	49	142		39	39
	141017	13/07/2007	TX68	Beam trawl	34F2	9	10	12	29	48		40	40
						36	41	43	199	344		126	126
						58	105	127	473	711		226	226
						=====	=====	=====	=====	=====		=====	=====

Table : 5c IMARES, 18APR2008 11:27:11

Species : Brill
 Year : 2007, 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
IVB	131016	09/07/2007	GY287	Beam trawl	40F3	25	33	0		20	20
	131018	10/09/2007	UK44	Beam trawl	38F6	93	180	30		30	30
						118	213	30		50	50
IVC	131014	06/07/2007	G028	Beam trawl	33F2	65	94	10		47	47
	131015	06/07/2007	OD50	Beam trawl	32F3	11	49	29		30	30
	131017	13/07/2007	TX68	Beam trawl	34F2	22	12	6		45	45
						98	155	45		122	122
					216	368	75		172	172	

Table : 6a IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, quarter : 1
 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	121002	19/01/2007	HD29	Beam trawl	36F5	184		25
						184		25
IVC	121001	12/01/2007	GO38	Beam trawl	34F3	269		25
	121003	09/02/2007	GO24	Beam trawl	33F3	1258		25
						1527		50
						1711		75
						=====	=====	=====

Table : 6b IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, 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	121005	16/04/2007	SC45	Twin trawl	39F5	762		25
	121007	29/06/2007	TX19	Beam trawl	37F1	281		25
						1043		50
IVC	121004	13/04/2007	GO23	Beam trawl	34F2	88		25
	121006	11/05/2007	OD6	Beam trawl	33F3	37		25
						125		50
						1168		100
						=====		=====

Table : 6c IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, quarter : 3
 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	121009	09/07/2007	GY287	Beam trawl	40F3	1610		25
						1610		25
IVC	121008 121010	06/07/2007 03/08/2007	GO28 OD9	Beam trawl Beam trawl	33F2 32F3	3261		25
						256		25
						3517		50
						5127		75
						=====	=====	=====

Table : 6d IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, 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	121012	08/10/2007	UK2	Beam trawl	37F7	480		25
						480		25
IVC	121011	05/10/2007	OD6	Beam trawl	32F3	2040		25
						838		25
	121013	09/11/2007	GO28	Beam trawl	33F2	2878		50
						3358		75
						=====	=====	=====

Table : 6e IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, 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	120004	19/01/2007	HD29	Beam trawl	36F5	184		148
						184		148
IVC	120001	12/01/2007	KW88	Beam trawl	34F3	345		34
	120002	12/01/2007	GO38	Beam trawl	34F3	269		217
	120003	19/01/2007	ARM15	Beam trawl	32F2	1710		40
	120005	09/02/2007	GO24	Beam trawl	33F3	1258		175
	120006	09/03/2007	GO24	Beam trawl	33F3	537		40
	120007	26/03/2007	TX19	Beam trawl	35F2	220		36
							4339	
						4523		690
						=====		=====

Table : 6f IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, 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	120009	16/04/2007	SC45	Twin trawl	39F5	762		189
	120010	07/05/2007	UK167	Beam trawl	38F2	623		48
							-----	-----
							1385	237
							-----	-----
IVC	120008	13/04/2007	GO23	Beam trawl	34F2	88		289
	120011	11/05/2007	OD6	Beam trawl	33F3	37		268
							-----	-----
							125	557
							-----	-----
							1510	794
						=====	=====	=====

Table : 6g IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, quarter : 3
 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	120013	09/07/2007	GY287	Beam trawl	40F3	1610		163
	120015	10/08/2008	WR68	Beam trawl	37F2	100		47
						1710	-----	210
IVC	120012	06/07/2007	GO28	Beam trawl	33F2	3261		241
	120014	03/08/2007	OD9	Beam trawl	32F3	256		117
						3517	-----	358
						5227	-----	568
						=====	=====	=====

Table : 6h IMARES, 18APR2008 11:27:11

Species : Dab
 Year : 2007, 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	120017	08/10/2007	UK2	Beam trawl	37F7	480		141
	120022	17/12/2007	WR115	Twin trawl	41F5	1138		43
						1618		184
IVC	120016	05/10/2007	OD6	Beam trawl	32F3	2040		123
	120018	09/11/2007	GO28	Beam trawl	33F2	838		237
	120019	30/11/2007	GO28	Beam trawl	32F2	551		41
	120020	07/12/2007	GO28	Beam trawl	33F2	472		39
	120021	14/12/2007	ARM7	Beam trawl	31F2	1425		64
	120023	20/12/2007	KW49	Beam trawl	35F3	313		35
						5639		539
					7257		723	
					=====		=====	

Table : 7a

IMARES, 18APR2008 11:27:11

Species : Lemon sole
 Year : 2007, 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	161001	12/02/2007	UK33	Beam trawl	36F3	0	8	53		40	40
						0	8	53		40	40
						0	8	53		40	40

Table : 7b

IMARES, 18APR2008 11:27:11

Species : Lemon sole
 Year : 2007, 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	161002	18/06/2007	LT60	Beam trawl	39F3	0	59	1776		50	50
						0	59	1776		50	50
						0	59	1776		50	50

Table : 7c

IMARES, 18APR2008 11:27:11

Species : Lemon sole
 Year : 2007, 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
IVB	161003	10/09/2007	Z121	Beam trawl	42F6	159	1749	956		75	75
						159	1749	956		75	75
						159	1749	956		75	75

Table : 7d

IMARES, 18APR2008 11:27:11

Species : Lemon sole
 Year : 2007, 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	161004	19/11/2007	HG271	Twin trawl	41F5	0	13	31		50	50
						0	13	31		50	50
						0	13	31		50	50

Table : 8g IMARES, 18APR2008 11:27:11

Species : Cod
 Year : 2007, 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	Cat 5	Cat 6	Sample weight (kg)	Number measured
IVB	190022	09/07/2007	R450K	Beam trawl	43F7	8	32	99	52	79	7		49
	190023	13/07/2007	FR231	Twin trawl	40F4	58	40	120	204	80	39		58
	190024	10/08/2008	WR68	Twin trawl	37F2	0	18	82	72	38	10		59
	190025	17/08/2008	FR231	Twin trawl	41F2	16	14	35	73	92	93		53
						82	104	336	401	289	149		219
IVC	190026	24/08/2008	YM8	Twin trawl	34F4	0	20	107	67	137	169		53
						0	20	107	67	137	169		53
						82	124	443	468	426	318		272
						=====	=====	=====	=====	=====	=====		=====

Table : 9c IMARES, 18APR2008 11:27:11

Species : Whiting
 Year : 2007, quarter : 3
 Type : Commercial , age 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 aged
IVB	211007	10/08/2007	WR68	Twin trawl	37F2	46					50
						46					50
						46					50
						====	====	====	====	=====	=====

Table : 9e IMARES, 18APR2008 11:27:11

Species : Whiting
 Year : 2007, 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
IVB	210005	09/02/2007	NG7	Otter trawl	36F2	4425					175
	210006	09/02/2007	NG7	Otter trawl	36F2	1409					36
	210009	05/03/2007	UK64	Beam trawl	38F5	8					44
						5842					255
IVC	210001	12/01/2007	GO5	Beam trawl	33F3	35					134
	210002	12/01/2007	KW88	Beam trawl	34F3	11					45
	210003	19/01/2007	ARM15	Beam trawl	32F2	345					74
	210004	09/02/2007	ARM4	Beam trawl	31F2	2070					81
	210007	16/02/2007	GO28	Beam trawl	33F2	91					198
	210008	02/03/2007	GO28	Beam trawl	32F3	80					50
	210010	09/03/2007	GO5	Beam trawl	34F3	21					103
	210011	09/03/2007	GO9	Beam trawl	33F3	14					40
	210012	26/03/2007	TX19	Beam trawl	35F2	8					43
						2675					768
						8517					1023
						=====					=====

Table : 9g IMARES, 18APR2008 11:27:11

Species : Whiting
 Year : 2007, 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
IVB	210016	10/08/2008	WR68	Twin trawl	37F2	46					168
						46					168
						46					168
						====	====	====	====	=====	=====

Table : 10a IMARES, 18APR2008 11:27:11

Species : Herring
 Year : 2007, 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	241004	24/01/2007	26/01/2007	SCH6	Pelagic trawl	51E9	25.4	146	25
	2	241006	24/01/2007	09/02/2007	SCH333	Pelagic trawl	51E9	20.4	125	25
								45.8	271	50
IVC	3	241008	14/03/2007	16/03/2007	SCH22/SCH23	Pair trawl	32F1	24.6	233	25
									24.6	233
VIAN	1	241003	18/01/2007	26/01/2007	SCH6	Pelagic trawl	46E2	21.5	150	25
									21.5	150
VIID	1	241001	08/01/2007	18/01/2007	SCH22/SCH23	Pair trawl	28E9	24.8	173	25
		241002	04/01/2007	26/01/2007	SCH6	Pelagic trawl	28E9	19.7	133	25
	2	241005	31/01/2007	01/02/2007	SCH22/SCH23	Pair trawl	30F0	22.8	182	25
	3	241007	13/03/2007	16/03/2007	SCH22/SCH23	Pair trawl	29F0	24.4	277	25
		241009	29/03/2007	30/03/2007	SCH22/SCH23	Pair trawl	29F0	24.1	295	25
								115.8	1060	125
								207.7	1714	225
								=====	=====	=====

Table : 10b

IMARES, 18APR2008 11:27:11

Species : Herring
 Year : 2007, 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
IVAE	6	241021	06/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	44F2	24.6	202	25
								24.6	202	25
IVAW	6	241012	31/05/2007	02/06/2007	SCH22/SCH23	Pair trawl	44F1	23.5	196	25
		241013	30/05/2007	11/06/2007	SCH333	Pelagic trawl	49F0	23.2	153	25
		241014	31/05/2007	11/06/2007	SCH333	Pelagic trawl	50E9	24.7	156	25
		241015	01/06/2007	11/06/2007	SCH333	Pelagic trawl	47E9	23.4	165	25
		241016	04/06/2007	11/06/2007	SCH333	Pelagic trawl	47F0	25.5	169	25
		241017	05/06/2007	11/06/2007	SCH333	Pelagic trawl	50F0	25.0	157	25
		241018	06/06/2007	11/06/2007	SCH333	Pelagic trawl	49E9	23.5	136	25
		241019	07/06/2007	11/06/2007	SCH333	Pelagic trawl	49F0	23.2	136	25
		241020	09/06/2007	11/06/2007	SCH333	Pelagic trawl	48F1	23.1	136	25
		241022	08/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	45F1	24.1	219	25
		241023	09/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	45E9	25.0	205	25
		241024	11/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	45E8	24.1	215	25
		241025	11/06/2007	21/06/2007	PH110/PH220	Pair trawl	45E8	25.2	200	25
		241026	11/06/2007	21/06/2007	PH110/PH220	Pair trawl	45E8	25.9	192	25
		241027	12/06/2007	21/06/2007	PH110/PH220	Pair trawl	50F0	24.9	117	25
		241028	14/06/2007	21/06/2007	PH110/PH220	Pair trawl	50E9	25.7	136	25
		241029	18/06/2007	21/06/2007	PH110/PH220	Pair trawl	50E9	26.1	152	25
		241030	13/06/2007	30/06/2007	SCH6	Pelagic trawl	47E9	22.7	148	25
		241031	13/06/2007	30/06/2007	SCH6	Pelagic trawl	47E9	30.4	211	25
		241032	14/06/2007	30/06/2007	SCH6	Pelagic trawl	47E8	23.4	176	25
		241033	14/06/2007	30/06/2007	SCH6	Pelagic trawl	47E8	24.4	181	25
		241034	15/06/2007	30/06/2007	SCH6	Pelagic trawl	47E8	22.8	178	25
		241035	16/06/2007	30/06/2007	SCH6	Pelagic trawl	46E9	23.7	187	25
		241036	16/06/2007	30/06/2007	SCH6	Pelagic trawl	46E9	22.0	194	25
		241037	17/06/2007	30/06/2007	SCH6	Pelagic trawl	45E9	21.8	196	25
		241038	17/06/2007	30/06/2007	SCH6	Pelagic trawl	45E9	23.9	185	25
		241039	18/06/2007	30/06/2007	SCH6	Pelagic trawl	47E9	23.8	167	25
		241040	19/06/2007	30/06/2007	SCH6	Pelagic trawl	47E9	26.0	166	25
		241041	19/06/2007	30/06/2007	SCH6	Pelagic trawl	47E8	22.9	158	25
		241042	20/06/2007	30/06/2007	SCH6	Pelagic trawl	47E9	33.1	241	25
		241043	21/06/2007	30/06/2007	SCH6	Pelagic trawl	49F0	26.7	159	25
		241044	22/06/2007	30/06/2007	SCH6	Pelagic trawl	49F0	27.0	131	25

		241045	23/06/2007	30/06/2007	SCH6	Pelagic trawl	50F0	32.3	149	25
		241046	24/06/2007	30/06/2007	SCH6	Pelagic trawl	48F0	29.5	169	25
		241047	25/06/2007	30/06/2007	SCH6	Pelagic trawl	50F0	26.4	123	25
		241048	27/06/2007	30/06/2007	SCH6	Pelagic trawl	50E9	26.2	133	25
		241049	28/06/2007	30/06/2007	SCH6	Pelagic trawl	50F0	29.5	134	25
								-----	-----	-----
								934.6	6226	925
								-----	-----	-----
IVB	6	241010	29/05/2007	02/06/2007	SCH22/SCH23	Pair trawl	42E9	25.6	233	25
		241011	31/05/2007	02/06/2007	SCH22/SCH23	Pair trawl	43F2	23.9	229	25
								-----	-----	-----
								49.5	462	50
								-----	-----	-----
								1008.7	6890	1000
								=====	=====	=====

Table : 10c

IMARES, 18APR2008 11:27:11

Species : Herring
 Year : 2007, 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
IVAW	7	241050	20/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	45E9	25.7	193	25
		241051	21/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	46F0	23.6	156	25
		241052	22/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	48E9	22.6	153	25
		241053	27/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	50E9	23.9	118	25
		241054	29/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	50F0	23.6	111	25
		241055	28/06/2007	06/07/2007	PH110/PH220	Pair trawl	50F0	23.7	114	25
		241056	30/06/2007	06/07/2007	PH110/PH220	Pair trawl	49E9	24.8	168	25
		241057	02/07/2007	06/07/2007	PH110/PH220	Pair trawl	49E7	23.8	141	25
		241058	03/07/2007	06/07/2007	PH110/PH220	Pair trawl	49E7	24.1	89	25
		241059	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	20.5	171	25
		241060	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	20.5	171	25
		241061	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	19.9	172	25
		241062	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	20.2	146	25
		241063	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	20.2	146	25
		241064	17/06/2007	09/07/2007	SCH72	Pelagic trawl	45E9	20.3	165	25
		241065	18/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	19.3	142	25
		241066	18/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	19.3	142	25
		241067	18/06/2007	09/07/2007	SCH72	Pelagic trawl	46E9	21.3	125	25
		241068	18/06/2007	09/07/2007	SCH72	Pelagic trawl	46E9	21.3	125	25
		241069	19/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	20.1	135	25
		241070	19/06/2007	09/07/2007	SCH72	Pelagic trawl	47E8	20.8	144	25
		241071	19/06/2007	09/07/2007	SCH72	Pelagic trawl	47E8	18.4	142	25
		241072	19/06/2007	09/07/2007	SCH72	Pelagic trawl	47E8	18.4	142	25
		241073	20/06/2007	09/07/2007	SCH72	Pelagic trawl	46E9	21.5	158	25
		241074	21/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	20.1	159	25
		241075	21/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	20.1	159	25
		241076	21/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	20.9	119	25
		241077	21/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	20.9	119	25
		241078	22/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.7	106	25
		241079	22/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	15.6	79	25
		241080	23/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.8	97	25
		241081	23/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.8	97	25
		241082	23/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	22.2	121	25
		241083	24/06/2007	09/07/2007	SCH72	Pelagic trawl	48F0	21.1	121	25
		241084	24/06/2007	09/07/2007	SCH72	Pelagic trawl	48F0	21.1	121	25
		241085	24/06/2007	09/07/2007	SCH72	Pelagic trawl	48F0	22.8	134	25

241086	24/06/2007	09/07/2007	SCH72	Pelagic trawl	48F0	22.8	134	25
241087	25/06/2007	09/07/2007	SCH72	Pelagic trawl	48E8	19.4	128	25
241088	26/06/2007	09/07/2007	SCH72	Pelagic trawl	48E6	22.6	112	25
241089	27/06/2007	09/07/2007	SCH72	Pelagic trawl	48E8	20.3	135	25
241090	27/06/2007	09/07/2007	SCH72	Pelagic trawl	48E8	20.3	135	25
241091	28/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	20.1	86	25
241092	28/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	20.1	86	25
241093	28/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.2	96	25
241094	28/06/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.2	96	25
241095	29/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	21.0	96	25
241096	29/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	22.2	114	25
241097	29/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	20.3	108	25
241098	29/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	20.3	108	25
241099	30/06/2007	09/07/2007	SCH72	Pelagic trawl	49F0	20.1	94	25
241100	30/06/2007	09/07/2007	SCH72	Pelagic trawl	47E9	20.4	129	25
241101	01/07/2007	09/07/2007	SCH72	Pelagic trawl	50F0	23.2	109	25
241102	01/07/2007	09/07/2007	SCH72	Pelagic trawl	50F0	23.2	109	25
241103	01/07/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.8	100	25
241104	01/07/2007	09/07/2007	SCH72	Pelagic trawl	50F0	21.8	100	25
241105	02/07/2007	09/07/2007	SCH72	Pelagic trawl	49E7	20.4	130	25
241106	02/07/2007	09/07/2007	SCH72	Pelagic trawl	49E7	20.4	130	25
241107	02/07/2007	09/07/2007	SCH72	Pelagic trawl	49E7	20.3	130	25
241108	02/07/2007	09/07/2007	SCH72	Pelagic trawl	49E7	20.3	130	25
241109	03/07/2007	09/07/2007	SCH72	Pelagic trawl	46E9	20.3	115	25
241110	03/07/2007	09/07/2007	SCH72	Pelagic trawl	46E9	20.3	115	25
241111	04/07/2007	09/07/2007	SCH72	Pelagic trawl	46E9	19.3	125	25
241112	04/07/2007	09/07/2007	SCH72	Pelagic trawl	46E9	21.2	112	25
241113	04/07/2007	09/07/2007	SCH72	Pelagic trawl	46E9	21.2	112	25
241114	05/07/2007	09/07/2007	SCH72	Pelagic trawl	47E8	21.3	138	25
241115	05/07/2007	09/07/2007	SCH72	Pelagic trawl	47E8	21.3	138	25
241116	05/07/2007	09/07/2007	SCH72	Pelagic trawl	47E9	19.1	115	25
241117	06/07/2007	09/07/2007	SCH72	Pelagic trawl	48F0	20.7	108	25
241118	06/07/2007	09/07/2007	SCH72	Pelagic trawl	50E9	21.2	104	25
241119	12/07/2007	21/07/2007	PH110/PH220	Pair trawl	49E9	23.1	120	25
241120	13/07/2007	21/07/2007	PH110/PH220	Pair trawl	49E8	24.4	138	25
241121	17/07/2007	21/07/2007	PH110/PH220	Pair trawl	50E9	26.2	115	25
241122	07/07/2007	15/07/2007	SCH22/SCH23	Pair trawl	51E9	25.4	117	25
241123	20/07/2007	28/07/2007	SCH22/SCH23	Pair trawl	50F0	24.7	94	25
241124	21/07/2007	28/07/2007	SCH22/SCH23	Pair trawl	51E9	24.4	90	25

Table : 10c IMARES, 18APR2008 11:27:11

Species : Herring
 Year : 2007, 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		
IVAW	7	241125	23/07/2007	28/07/2007	SCH22/SCH23	Pair trawl	51E9	24.2	82	25		
		241126	26/07/2007	28/07/2007	SCH22/SCH23	Pair trawl	47E9	25.0	130	25		
	8	241127	26/07/2007	04/08/2007	PH110/PH220	Pair trawl	46F0	25.9	120	25		
		241128	27/07/2007	04/08/2007	PH110/PH220	Pair trawl	50E8	25.5	114	25		
		241129	30/07/2007	04/08/2007	PH110/PH220	Pair trawl	49E9	26.2	138	25		
		241130	31/07/2007	04/08/2007	PH110/PH220	Pair trawl	50F0	26.1	90	25		
								-----	-----	-----		
								1758.6	10026	2025		
IVB	8	241131	29/08/2007	31/08/2007	KW170	Pelagic trawl	40E9	23.7	105	25		
										-----	-----	-----
										23.7	105	25
								-----	-----	-----		
								1782.3	10131	2050		
								=====	=====	=====		

Table : 10d IMARES, 18APR2008 11:27:11

Species : Herring
 Year : 2007, 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	
IIA	10	241133	26/09/2007	11/10/2007	SCH123	Pelagic trawl	68G0	24.8	79	25	
		241134	04/10/2007	11/10/2007	SCH123	Pelagic trawl	71G2	25.9	98	25	
	11	241135	27/10/2007	13/11/2007	KW172	Pelagic trawl	70G1	30.9	101	25	
		241136	30/10/2007	13/11/2007	KW172	Pelagic trawl	70G4	39.9	138	25	
		241137	02/11/2007	13/11/2007	KW172	Pelagic trawl	70G4	38.3	162	25	
		241138	06/11/2007	13/11/2007	KW172	Pelagic trawl	70G4	39.7	151	25	
		241139	09/11/2007	13/11/2007	KW172	Pelagic trawl	71G4	41.9	144	25	
									241.4	873	175
VIID	12	241140	10/12/2008	17/12/2008	SCH22/SCH23	Pair trawl	29E9	22.4	129	25	
								22.4	129	25	
VIIE	10	241132	08/09/2007	04/10/2007	SCH333	Pelagic trawl	29E7	23.6	101	25	
								23.6	101	25	
								287.4	1103	225	
							=====	=====	=====		

Table : 11a IMARES, 18APR2008 11:27:11

Species : Mackerel
 Year : 2007, 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	18/01/2007	26/01/2007	SCH6	Pelagic trawl	45E2	58.6	138	25
		281006	18/01/2007	26/01/2007	SCH6	Pelagic trawl	45E2	46.5	116	25
		281007	22/01/2007	26/01/2007	SCH6	Pelagic trawl	47E4	23.4	119	25
	2	281008	22/01/2007	09/02/2007	SCH333	Pelagic trawl	46E3	22.7	67	25
		281009	27/01/2007	09/02/2007	SCH333	Pelagic trawl	39E0	21.8	92	25
									173.0	532
VIIB	1	281003	10/01/2007	26/01/2007	SCH6	Pelagic trawl	36D8	21.1	70	25
		281004	15/01/2007	26/01/2007	SCH6	Pelagic trawl	34D8	20.1	69	25
								41.2	139	50
VIID	1	281001	12/01/2007	17/01/2007	PH110/PH220	Pair trawl	30F0	23.3	103	25
	2	281011	07/02/2007	17/02/2007	SCH22/SCH23	Pair trawl	29F0	21.4	149	25
	3	281012	16/02/2007	04/03/2007	SCH333	Pelagic trawl	30F1	21.7	124	25
							66.4	376	75	
VIIH	1	281002	07/01/2007	26/01/2007	SCH6	Pelagic trawl	25E1	26.7	92	25
							26.7	92	25	
VIIIB	3	281015	09/03/2007	16/03/2007	SCH22/SCH23	Pair trawl	22E5	22.6	65	25
							22.6	65	25	
VIIJ	2	281010	07/02/2007	09/02/2007	SCH333	Pelagic trawl	28D9	21.4	50	25
	3	281013	20/02/2007	04/03/2007	SCH333	Pelagic trawl	32D8	20.6	60	25
		281014	20/02/2007	04/03/2007	SCH333	Pelagic trawl	31D8	19.1	79	25
		281016	23/03/2007	31/03/2007	PH110/PH220	Pair trawl	27D8	25.0	81	25
		281017	27/03/2007	31/03/2007	PH110/PH220	Pair trawl	26D9	23.4	74	25
							109.5	344	125	
							439.4	1548	425	
							=====	=====	=====	

Table : 11b

IMARES, 18APR2008 11:27:11

Species : Mackerel
 Year : 2007, 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	281032	01/06/2007	11/06/2007	SCH333	Pelagic trawl	49F0	23.2	182	25
		281033	07/06/2007	11/06/2007	SCH333	Pelagic trawl	49F0	23.1	120	25
		281034	06/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	44F2	23.6	145	25
		281035	09/06/2007	14/06/2007	SCH22/SCH23	Pair trawl	45E9	24.2	134	25
		281036	13/06/2007	21/06/2007	PH110/PH220	Pair trawl	50F0	24.3	102	25
								118.4	683	125
VIA	4	281021	12/04/2007	23/04/2007	SCH333	Pelagic trawl	43E0	17.5	30	25
		281022	15/04/2007	23/04/2007	SCH333	Pelagic trawl	43E0	22.3	64	25
		281024	18/04/2007	23/04/2007	SCH333	Pelagic trawl	45E0	22.8	74	25
		281025	20/04/2007	23/04/2007	SCH333	Pelagic trawl	48E0	21.3	52	25
	5	281023	21/04/2007	08/05/2007	SCH6	Pelagic trawl	43E0	25.7	68	25
		281029	21/04/2007	08/05/2007	SCH6	Pelagic trawl	43E0	28.8	90	25
		281030	22/04/2007	08/05/2007	SCH6	Pelagic trawl	45E0	27.4	87	25
		281031	09/05/2007	15/05/2007	SCH333	Pelagic trawl	46E2	22.9	72	25
										188.7
VIIJ	4	281018	11/03/2007	02/04/2007	SCH333	Pelagic trawl	29D9	20.9	74	25
		281019	12/03/2007	02/04/2007	SCH333	Pelagic trawl	30D9	22.4	88	25
		281020	12/03/2007	02/04/2007	SCH333	Pelagic trawl	30D8	22.5	84	25
		281026	05/04/2007	13/04/2007	PH110/PH220	Pair trawl	29D9	22.3	66	25
		281027	09/04/2007	13/04/2007	PH110/PH220	Pair trawl	28D8	25.3	64	25
		281028	11/04/2007	13/04/2007	PH110/PH220	Pair trawl	26E0	23.1	67	25
										136.5
								443.6	1663	475
								=====	=====	=====

Table : 11c IMARES, 18APR2008 11:27:11

Species : Mackerel
 Year : 2007, 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	281037	20/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	46E9	23.5	154	25	
		281038	22/06/2007	02/07/2007	SCH22/SCH23	Pair trawl	48E9	23.7	105	25	
		281039	28/06/2007	06/07/2007	PH110/PH220	Pair trawl	50F0	22.1	63	25	
		281040	30/06/2007	06/07/2007	PH110/PH220	Pair trawl	50E9	25.2	112	25	
		281041	02/07/2007	06/07/2007	PH110/PH220	Pair trawl	49E7	23.6	121	25	
		281046	02/07/2007	07/07/2007	SCH333	Pelagic trawl	50F0	21.9	88	25	
		281047	05/07/2007	07/07/2007	SCH333	Pelagic trawl	47E8	20.5	97	25	
		281048	13/07/2007	15/07/2007	SCH22/SCH23	Pair trawl	50F0	22.9	110	25	
		281049	12/07/2007	21/07/2007	PH110/PH220	Pair trawl	49E9	21.8	98	25	
		281050	14/07/2007	21/07/2007	PH110/PH220	Pair trawl	50E9	23.7	108	25	
		281051	12/07/2007	15/07/2007	SCH22/SCH23	Pair trawl	51F0	22.9	99	25	
		8	281052	27/07/2007	04/08/2007	PH110/PH220	Pair trawl	50E9	22.7	103	25
			281053	30/07/2007	04/08/2007	PH110/PH220	Pair trawl	49E8	21.5	108	25
			281054	31/07/2007	04/08/2007	PH110/PH220	Pair trawl	49E8	20.3	81	25
										316.3	1447
IVB	9	281058	31/08/2007	06/09/2007	SCH22/SCH23	Pair trawl	40E9	21.4	105	25	
								21.4	105	25	
VIA	7	281045	24/06/2007	07/07/2007	SCH333	Pelagic trawl	47E5	22.1	105	25	
								22.1	105	25	
VIIB	7	281044	21/06/2007	07/07/2007	SCH333	Pelagic trawl	34D8	21.9	89	25	
								21.9	89	25	
VIID	9	281060	17/09/2007	22/09/2007	PH110/PH220	Pair trawl	29E9	23.5	118	25	
								23.5	118	25	

VIIE	7	281042	18/06/2007	07/07/2007	SCH333	Pelagic trawl	29E7	23.4	126	25	
	8	281055	04/08/2007	27/08/2007	SCH333	Pelagic trawl	28E7	23.6	147	25	
		281056	11/08/2007	27/08/2007	SCH333	Pelagic trawl	28E7	22.2	109	25	
	9	281057	20/08/2007	27/08/2007	SCH333	Pelagic trawl	28E6	22.3	116	25	
		281059	12/09/2007	22/09/2007	PH110/PH220	Pair trawl	29E5	23.5	135	25	
								-----	-----	-----	
								115.0	633	125	
								-----	-----	-----	
VIIJ	7	281043	20/06/2007	07/07/2007	SCH333	Pelagic trawl	32D8	22.2	71	25	
									-----	-----	-----
									22.2	71	25
									-----	-----	-----
								542.4	2568	600	
								=====	=====	=====	

Table : 11d IMARES, 18APR2008 11:27:11

Species : Mackerel
 Year : 2007, 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	281064	12/10/2007	28/10/2007	SCH333	Pelagic trawl	31F1	22.9	64	25
								-----	-----	-----
								22.9	64	25
VIID	10	281061	02/09/2007	04/10/2007	SCH333	Pelagic trawl	30F0	23.2	125	25
		281063	20/09/2007	04/10/2007	SCH333	Pelagic trawl	30E9	24.4	129	25
		281065	24/10/2007	28/10/2007	SCH333	Pelagic trawl	30F1	19.9	70	25
	11	281066	19/11/2007	22/11/2007	SCH333	Pelagic trawl	29E9	20.5	88	25
							-----	-----	-----	
								88.0	412	100
VIIE	10	281062	08/09/2007	04/10/2007	SCH333	Pelagic trawl	29E7	22.8	123	25
		12	281067	13/12/2008	19/12/2008	SCH333	Pelagic trawl	28E7	21.2	47
								-----	-----	-----
								44.0	170	50
								-----	-----	-----
								154.9	646	175
								=====	=====	=====

Table : 12a IMARES, 18APR2008 11:27:11

Species : Horse mackerel
 Year : 2007, 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
IVC	2	291018	20/02/2007	27/02/2007	SCH22/SCH23	Pair trawl	32F2	21.9	138	25
		291019	26/02/2007	27/02/2007	SCH22/SCH23	Pair trawl	32F2	21.2	108	25
	3	291023	15/03/2007	16/03/2007	SCH22/SCH23	Pair trawl	31F2	20.5	136	25
		291030	21/03/2007	30/03/2007	SCH22/SCH23	Pair trawl	33F2	22.2	142	25
								85.8	524	100
VIIB	1	291007	09/01/2007	26/01/2007	SCH6	Pelagic trawl	36D8	23.3	115	25
		291008	14/01/2007	26/01/2007	SCH6	Pelagic trawl	35D8	16.8	100	25
		291009	16/01/2007	26/01/2007	SCH6	Pelagic trawl	34D8	23.9	135	25
								64.0	350	75
VIID	1	291001	13/01/2007	18/01/2007	SCH22/SCH23	Pair trawl	29F0	21.9	142	25
		291002	08/01/2007	17/01/2007	PH110/PH220	Pair trawl	30F0	21.7	92	25
		291003	13/01/2007	17/01/2007	PH110/PH220	Pair trawl	30F0	24.3	139	25
		291004	16/01/2007	17/01/2007	PH110/PH220	Pair trawl	30F1	23.7	148	25
		291010	23/01/2007	30/01/2007	PH110/PH220	Pair trawl	30F1	23.4	172	25
		291011	27/01/2007	30/01/2007	PH110/PH220	Pair trawl	30F0	22.3	130	25
		291012	24/01/2007	01/02/2007	PH110/PH220	Pair trawl	30F1	22.4	160	25
	2	291013	29/01/2007	01/02/2007	PH110/PH220	Pair trawl	30F1	22.8	174	25
		291014	06/02/2007	17/02/2007	SCH22/SCH23	Pair trawl	30F0	21.5	129	25
		291015	10/02/2007	17/02/2007	SCH22/SCH23	Pair trawl	29E9	23.0	146	25
		291016	12/02/2007	17/02/2007	SCH22/SCH23	Pair trawl	29E8	22.7	164	25
	3	291017	14/02/2007	17/02/2007	SCH22/SCH23	Pair trawl	29E9	22.2	137	25
		291020	16/02/2007	04/03/2007	SCH333	Pelagic trawl	30F1	19.4	123	25
										291.3
VIIH	1	291005	06/01/2007	26/01/2007	SCH6	Pelagic trawl	25E1	17.8	108	25
		291006	07/01/2007	26/01/2007	SCH6	Pelagic trawl	25E1	19.3	123	25
								37.1	231	50

VIIJ	3	291021	17/02/2007	04/03/2007	SCH333	Pelagic trawl	25E0	21.0	114	25
		291022	20/02/2007	04/03/2007	SCH333	Pelagic trawl	31D8	19.0	153	25
		291024	23/03/2007	31/03/2007	PH110/PH220	Pair trawl	27D8	20.8	144	25
		291025	27/03/2007	31/03/2007	PH110/PH220	Pair trawl	26D9	21.1	154	25
								-----	-----	-----
								81.9	565	100
								-----	-----	-----
								560.1	3526	650
								=====	=====	=====

Table : 12b

IMARES, 18APR2008 11:27:11

Species : Horse mackerel
 Year : 2007, 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		
VIA	4	291029	29/03/2007	02/04/2007	SCH333	Pelagic trawl	43D9	20.7	66	25		
		291031	15/04/2007	23/04/2007	SCH333	Pelagic trawl	43E0	20.0	56	25		
		291032	19/04/2007	23/04/2007	SCH333	Pelagic trawl	48E0	19.1	50	25		
		291033	20/04/2007	23/04/2007	SCH333	Pelagic trawl	48E0	20.2	57	25		
	5	291037	30/04/2007	15/05/2007	SCH333	Pelagic trawl	47E2	19.9	54	25		
		291038	02/05/2007	15/05/2007	SCH333	Pelagic trawl	46E2	19.2	50	25		
		291039	09/05/2007	15/05/2007	SCH333	Pelagic trawl	46E2	20.3	70	25		
										139.4	403	175

VIIJ	4	291026	11/03/2007	02/04/2007	SCH333	Pelagic trawl	29D9	22.1	156	25		
		291027	12/03/2007	02/04/2007	SCH333	Pelagic trawl	30D9	21.2	165	25		
		291028	12/03/2007	02/04/2007	SCH333	Pelagic trawl	30D8	20.4	169	25		
		291034	05/04/2007	13/04/2007	PH110/PH220	Pair trawl	29D9	20.8	156	25		
		291035	06/04/2007	13/04/2007	PH110/PH220	Pair trawl	27D8	24.2	174	25		
		291036	11/04/2007	13/04/2007	PH110/PH220	Pair trawl	26E0	23.2	129	25		
										131.9	949	150

								271.3	1352	325		
=====												

Table : 12c IMARES, 18APR2008 11:27:11

Species : Horse mackerel
 Year : 2007, 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	7	291041	21/06/2007	07/07/2007	SCH333	Pelagic trawl	34D8	20.4	126	25
								20.4	126	25
VIID	9	291050	12/09/2007	20/09/2007	SCH22/SCH23	Pair trawl	28E9	24.1	168	25
		291051	13/09/2007	20/09/2007	SCH22/SCH23	Pair trawl	29E9	21.7	153	25
		291052	15/09/2007	20/09/2007	SCH22/SCH23	Pair trawl	29F0	23.8	278	25
		291053	17/09/2007	20/09/2007	SCH22/SCH23	Pair trawl	29F0	20.6	183	25
		291054	19/09/2007	20/09/2007	SCH22/SCH23	Pair trawl	29E9	22.3	180	25
		291056	17/09/2007	22/09/2007	PH110/PH220	Pair trawl	29E9	23.3	180	25
								135.8	1142	150
VIIE	8	291042	04/08/2007	27/08/2007	SCH333	Pelagic trawl	28E7	19.8	233	25
		291043	07/08/2007	27/08/2007	SCH333	Pelagic trawl	28E6	22.9	192	25
		291044	08/08/2007	27/08/2007	SCH333	Pelagic trawl	28E7	19.6	183	25
		291045	09/08/2007	27/08/2007	SCH333	Pelagic trawl	27E6	21.8	187	25
		291046	11/08/2007	27/08/2007	SCH333	Pelagic trawl	28E7	21.7	198	25
		291047	12/08/2007	27/08/2007	SCH333	Pelagic trawl	27E6	20.9	156	25
		291048	18/08/2007	27/08/2007	SCH333	Pelagic trawl	28E6	20.4	150	25
		291049	20/08/2007	27/08/2007	SCH333	Pelagic trawl	28E6	21.5	218	25
	9	291055	12/09/2007	22/09/2007	PH110/PH220	Pair trawl	29E5	22.4	169	25
								191.0	1686	225
VIIJ	7	291040	20/06/2007	07/07/2007	SCH333	Pelagic trawl	32D8	20.6	130	25
								20.6	130	25
								367.8	3084	425

Table : 12d

IMARES, 18APR2008 11:27:11

Species : Horse mackerel
 Year : 2007, 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	291069	12/10/2007	28/10/2007	SCH333	Pelagic trawl	31F1	21.4	102	25
								21.4	102	25
VIID	10	291057	02/09/2007	04/10/2007	SCH333	Pelagic trawl	30F0	22.7	236	25
		291061	15/09/2007	04/10/2007	SCH333	Pelagic trawl	29F0	20.1	147	25
		291062	18/09/2007	04/10/2007	SCH333	Pelagic trawl	29F0	18.9	157	25
		291063	20/09/2007	04/10/2007	SCH333	Pelagic trawl	30E9	24.2	189	25
		291066	03/10/2007	06/10/2007	SCH22/SCH23	Pair trawl	29F0	22.1	184	25
		291067	10/10/2007	18/10/2007	SCH22/SCH23	Pair trawl	29F0	24.8	216	25
		291068	16/10/2007	18/10/2007	SCH22/SCH23	Pair trawl	29E9	21.3	121	25
		291070	24/10/2007	28/10/2007	SCH333	Pelagic trawl	30F1	21.1	134	25
	11	291071	19/11/2007	22/11/2007	SCH333	Pelagic trawl	29E9	22.7	189	25
								197.9	1573	225
VIIE	10	291058	03/09/2007	04/10/2007	SCH333	Pelagic trawl	29E7	23.4	354	25
		291059	05/09/2007	04/10/2007	SCH333	Pelagic trawl	27E6	20.9	148	25
		291060	08/09/2007	04/10/2007	SCH333	Pelagic trawl	29E7	20.7	171	25
		291064	29/09/2007	04/10/2007	SCH333	Pelagic trawl	29E7	19.9	147	25
		291065	27/09/2007	06/10/2007	SCH22/SCH23	Pair trawl	29E7	23.2	154	25
	12	291072	11/12/2008	17/12/2008	SCH22/SCH23	Pair trawl	29E7	28.7	189	25
		291073	15/12/2008	17/12/2008	SCH22/SCH23	Pair trawl	27E6	33.8	203	25
								170.6	1366	175
								389.9	3041	425
								=====	=====	=====

Table : 13a

IMARES, 18APR2008 11:27:11

Species : Blue whiting
 Year : 2007, 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	22/02/2007	04/03/2007	SCH333	Pelagic trawl	36D5	25.0	202	25
		301002	26/02/2007	04/03/2007	SCH333	Pelagic trawl	35D5	23.2	196	25
		301003	26/02/2007	04/03/2007	SCH333	Pelagic trawl	35D5	21.9	198	25
		301004	26/02/2007	04/03/2007	SCH333	Pelagic trawl	36D5	24.6	206	25
		301005	28/02/2007	04/03/2007	SCH333	Pelagic trawl	36D5	25.2	218	25
		301006	13/02/2007	04/03/2007	SCH72	Pelagic trawl	37D7	25.2	207	25
		301007	15/02/2007	04/03/2007	SCH72	Pelagic trawl	35D5	26.6	210	25
		301008	16/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	24.9	236	25
		301009	17/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	25.9	204	25
		301010	17/02/2007	04/03/2007	SCH72	Pelagic trawl	35D5	26.3	232	25
		301011	18/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	25.8	225	25
		301012	19/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	27.0	243	25
		301013	20/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	25.4	233	25
		301014	21/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	27.3	216	25
		301015	22/02/2007	04/03/2007	SCH72	Pelagic trawl	36D6	26.5	205	25
		301016	23/02/2007	04/03/2007	SCH72	Pelagic trawl	35D6	26.5	220	25
		301017	24/02/2007	04/03/2007	SCH72	Pelagic trawl	36D6	26.5	244	25
		301018	25/02/2007	04/03/2007	SCH72	Pelagic trawl	36D5	27.3	236	25
		301019	26/02/2007	04/03/2007	SCH72	Pelagic trawl	35D5	23.7	216	25
		301020	27/02/2007	04/03/2007	SCH72	Pelagic trawl	35D5	25.8	228	25
		301021	28/02/2007	04/03/2007	SCH72	Pelagic trawl	35D5	24.9	236	25
								-----	-----	-----
								535.5	4611	525
								-----	-----	-----
								535.5	4611	525
								=====	=====	=====

Table : 13b

IMARES, 18APR2008 11:27:11

Species : Blue whiting
 Year : 2007, 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
VIA	4	301027	15/03/2007	05/04/2007	SCH72	Pelagic trawl	40D8	22.0	190	25
		301028	15/03/2007	05/04/2007	SCH72	Pelagic trawl	40D8	21.3	173	25
		301029	20/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	20.7	185	25
		301030	20/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	18.9	189	25
		301031	20/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	26.7	260	25
		301032	20/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	18.8	186	25
		301033	21/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	18.8	186	25
		301034	21/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	23.1	206	25
		301035	21/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	25.1	248	25
		301036	21/03/2007	05/04/2007	SCH72	Pelagic trawl	41D8	22.8	205	25
		301037	22/03/2007	05/04/2007	SCH72	Pelagic trawl	40D9	21.2	190	25
		301038	22/03/2007	05/04/2007	SCH72	Pelagic trawl	40D9	27.4	254	25
		301039	23/03/2007	05/04/2007	SCH72	Pelagic trawl	43D9	23.7	218	25
		301040	23/03/2007	05/04/2007	SCH72	Pelagic trawl	43D9	27.7	220	25
		301041	23/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	22.3	202	25
		301042	23/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	26.7	255	25
		301043	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	21.9	213	25
		301044	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	28.3	270	25
		301045	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	24.5	218	25
		301046	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	22.4	164	25
		301047	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	22.8	210	25
		301048	24/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	26.4	263	25
		301049	25/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	27.5	266	25
		301050	25/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	27.3	222	25
		301051	25/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	21.8	195	25
		301052	25/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	26.7	231	25
		301053	26/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	23.3	228	25
		301054	26/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	26.4	274	25
		301055	26/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	19.8	190	25
		301056	26/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	30.5	246	25
		301057	27/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	22.2	220	25
		301058	27/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	26.0	244	25
		301059	27/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	21.1	212	25
		301060	28/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	27.5	257	25

		301061	28/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	28.2	230	25
		301062	28/03/2007	05/04/2007	SCH72	Pelagic trawl	42D9	27.5	257	25
		301063	28/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	20.8	197	25
		301064	29/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	24.1	240	25
		301065	29/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	27.6	280	25
		301066	29/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	28.4	247	25
		301067	30/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	20.8	205	25
		301068	30/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	27.0	265	25
		301069	30/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	23.7	256	25
		301070	30/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	26.4	278	25
		301071	31/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	27.3	258	25
		301072	31/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	25.8	268	25
		301073	31/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	21.6	235	25
		301074	31/03/2007	05/04/2007	SCH72	Pelagic trawl	42D8	26.6	293	25
		301075	01/04/2007	05/04/2007	SCH72	Pelagic trawl	42D8	20.8	205	25
		301076	01/04/2007	05/04/2007	SCH72	Pelagic trawl	42D8	26.5	264	25
		301077	01/04/2007	05/04/2007	SCH72	Pelagic trawl	42D8	25.3	214	25
		301078	01/04/2007	05/04/2007	SCH72	Pelagic trawl	42D8	23.2	193	25
5		301081	20/04/2007	08/05/2007	SCH6	Pelagic trawl	43E0	22.9	235	25
		301082	20/04/2007	08/05/2007	SCH6	Pelagic trawl	42E0	22.8	259	25
		301083	23/01/1904	08/05/2007	SCH6	Pelagic trawl	44E0	20.2	223	25
								-----	-----	-----
								1331.1	12592	1375
								-----	-----	-----
VIB	4	301022	12/03/2007	05/04/2007	SCH72	Pelagic trawl	38D5	19.9	185	25
		301023	13/03/2007	05/04/2007	SCH72	Pelagic trawl	40D6	18.6	159	25
		301024	13/03/2007	05/04/2007	SCH72	Pelagic trawl	40D7	20.5	182	25
		301025	14/03/2007	05/04/2007	SCH72	Pelagic trawl	40D7	18.7	165	25
		301026	14/03/2007	05/04/2007	SCH72	Pelagic trawl	40D7	20.5	195	25
		301079	02/04/2007	05/04/2007	SCH72	Pelagic trawl	43D7	19.9	197	25
		301080	02/04/2007	05/04/2007	SCH72	Pelagic trawl	43D7	26.4	261	25
								-----	-----	-----
								144.5	1344	175
								-----	-----	-----
								1475.6	13936	1550
								=====	=====	=====

Table : 14b

IMARES, 18APR2008 11:27:11

Species : Greater argentine
 Year : 2007, 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	271029	14/05/2007	09/06/2007	SCH72	Pelagic trawl	49E2	24.0	60	25
	271030	19/05/2007	09/06/2007	SCH72	Pelagic trawl	54E0	25.4	74	25
							----- 49.4	----- 134	----- 50
VIA	271001	10/04/2007	23/04/2007	SCH333	Pelagic trawl	43E0	19.6	55	25
	271002	12/04/2007	23/04/2007	SCH333	Pelagic trawl	44E0	22.9	65	25
	271003	17/04/2007	23/04/2007	SCH333	Pelagic trawl	44E0	18.7	57	25
	271004	19/04/2007	23/04/2007	SCH333	Pelagic trawl	48E0	19.3	69	25
	271005	20/04/2007	23/04/2007	SCH333	Pelagic trawl	48E0	22.6	78	25
	271006	24/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	30.8	74	25
	271007	25/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	30.0	81	25
	271008	25/04/2007	08/05/2007	SCH6	Pelagic trawl	48E3	30.1	81	25
	271009	26/04/2007	08/05/2007	SCH6	Pelagic trawl	47E3	29.8	72	25
	271010	26/04/2007	08/05/2007	SCH6	Pelagic trawl	48E3	32.2	73	25
	271011	26/04/2007	08/05/2007	SCH6	Pelagic trawl	48E3	31.0	78	25
	271012	27/04/2007	08/05/2007	SCH6	Pelagic trawl	47E3	31.9	84	25
	271013	27/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	24.6	65	25
	271014	28/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	35.5	90	25
	271015	28/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	32.2	90	25
	271016	29/04/2007	08/05/2007	SCH6	Pelagic trawl	47E3	36.1	97	25
	271017	30/04/2007	08/05/2007	SCH6	Pelagic trawl	47E2	30.0	76	25
	271018	01/05/2007	08/05/2007	SCH6	Pelagic trawl	48E3	35.4	92	25
	271019	01/05/2007	08/05/2007	SCH6	Pelagic trawl	47E3	34.7	80	25
	271020	02/05/2007	08/05/2007	SCH6	Pelagic trawl	47E2	39.6	102	25
	271021	03/05/2007	08/05/2007	SCH6	Pelagic trawl	47E3	35.7	90	25
	271022	04/05/2007	08/05/2007	SCH6	Pelagic trawl	48E3	34.7	85	25
	271023	30/04/2007	15/05/2007	SCH333	Pelagic trawl	47E2	23.0	60	25
	271024	02/05/2007	15/05/2007	SCH333	Pelagic trawl	48E2	22.0	62	25
	271025	07/05/2007	15/05/2007	SCH333	Pelagic trawl	48E3	19.5	59	25
	271026	09/05/2007	15/05/2007	SCH333	Pelagic trawl	48E3	21.7	56	25
	271027	09/05/2007	15/05/2007	SCH333	Pelagic trawl	46E2	22.7	65	25
	271028	08/05/2007	09/06/2007	SCH72	Pelagic trawl	48E3	23.3	52	25

789.6	2088	700
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839.0	2222	750
=====	=====	=====

Table : 15b

IMARES, 18APR2008 11:27:11

Species : Nephrops
 Year : 2007, quarter : 2
 Type : Commercial , age/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	Number aged
IVB	361004	05/04/2007	WR19	Twin trawl	36F2	341	1304	0	0	220		449	
	361005	13/04/2007	WR19	Twin trawl	36F2	557	1866	0	0	19		521	
	361006	04/05/2007	WR160	Twin trawl	37F2	275	1665	0	0	213		525	
	361007	09/05/2007	WR23	Twin trawl	37F2	402	2674	0	0	245		456	
	361008	25/05/2007	WR19	Twin trawl	36F2	418	957	0	0	0		331	
	361009	15/06/2007	WR23	Twin trawl	37F2	0	1940	0	0	0		216	
	361010	22/06/2007	WR23	Twin trawl	36F2	0	1972	0	0	0		255	
						1993	12378	0	0	697		2753	
						1993	12378	0	0	697		2753	
						=====	=====	=====	=====	=====		=====	

Table : 15c

IMARES, 18APR2008 11:27:11

Species : Nephrops
 Year : 2007, quarter : 3
 Type : Commercial , age/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	Number aged
IVB	361011	13/07/2007	WR20	Twin trawl	36F2	796	1589	0	0	0		381	
	361012	27/07/2007	WR19	Twin trawl	36F2	510	1541	0	0	0		358	
	361013	03/08/2007	WR19	Twin trawl	37F2	518	1047	0	0	0		352	
	361014	09/08/2007	GO58	Twin trawl	36F2	0	4750	0	0	0		291	
	361015	17/08/2007	WR23	Twin trawl	37F2	0	4320	0	0	0		314	
	361016	23/08/2007	WR68	Twin trawl	36F2	0	1778	0	0	0		318	
	361017	30/08/2007	WR67	Twin trawl	37F2	0	2612	0	0	0		323	
						1824	17637	0	0	0		2337	
						1824	17637	0	0	0		2337	
						=====	=====	=====	=====	=====		=====	

Table : 16b

IMARES, 18APR2008 11:27:11

Species : Ray blond
 Year : 2007, 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
IVC	311014	10/04/2007	KW145	Beam trawl	33F3	0	0	0	1		1	
	311015	11/05/2007	GO14	Beam trawl	34F2	21	0	44	0		9	
						21	0	44	1		10	
						21	0	44	1		10	
						====	====	====	====	=====	=====	=====

Table : 16c

IMARES, 18APR2008 11:27:11

Species : Ray blond
 Year : 2007, 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	Cat 4	Sample weight (kg)	Number measured	Number aged
IVC	311016	13/07/2007	GO28	Beam trawl	33F2	0	28	4	0		9	
						0	28	4	0		9	
						0	28	4	0		9	

Table : 17c

IMARES, 18APR2008 11:27:11

Species : Ray spotted
 Year : 2007, 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	Cat 4	Sample weight (kg)	Number measured	Number aged
IVB	331023	10/08/2007	WR23	Twin trawl	37F2	0	0	0	1		1	
	331024	17/08/2007	FR231	Twin trawl	41F2	0	0	210	45		25	
						0	0	210	46		26	
IVC	331022	13/07/2007	GO28	Beam trawl	33F2	0	0	24	29		19	
	331025	24/08/2007	KW42	Beam trawl	34F2	0	0	27	12		14	
	331026	28/09/2007	GO28	Beam trawl	35F2	0	0	45	7		11	
						0	0	96	48		44	
						0	0	306	94		70	

Table : 18b

IMARES, 18APR2008 11:27:11

Species : Ray starry
 Year : 2007, 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
IVB	341001	16/04/2007	LE63	Beam trawl	36F4	0	0	0	1		1	
						0	0	0	1		1	
						0	0	0	1		1	

Table : 19a

IMARES, 18APR2008 11:27:11

Species : Ray thornback
 Year : 2007, 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	321013	05/03/2007	UK64	Beam trawl	38F5	7	0	33	0		12	
						7	0	33	0		12	
IVC	321001	05/01/2007	GO28	Beam trawl	33F2	0	5	7	11		6	
	321002	12/01/2007	KW88	Beam trawl	34F3	0	7	0	25		4	
	321003	19/01/2007	ARM15	Beam trawl	32F2	0	4	90	224		22	
	321004	19/01/2007	ARM17	Beam trawl	32F2	5	0	113	218		18	
	321005	19/01/2007	ARM18	Beam trawl	31F2	0	15	181	128		23	
	321006	26/01/2007	TX19	Beam trawl	35F3	0	17	15	12		26	
	321007	09/02/2007	ARM4	Beam trawl	31F2	0	0	10	31		25	
	321008	09/02/2007	VL125	Beam trawl	32F2	0	0	7	45		18	
	321009	09/02/2007	VL127	Beam trawl	31F2	0	3	3	34		20	
	321010	09/02/2007	ARM44	Beam trawl	31F2	0	0	0	76		16	
	321011	16/02/2007	GO5	Beam trawl	33F3	6	8	46	35		25	
	321012	02/03/2007	GO28	Beam trawl	32F3	0	3	17	13		33	
	321014	09/03/2007	GO9	Beam trawl	33F3	0	0	7	3		10	
	321015	09/03/2007	GO14	Beam trawl	33F2	0	0	9	5		4	
	321016	26/03/2007	TX19	Beam trawl	35F2	5	9	28	2		7	
						16	71	533	862		257	
						23	71	566	862		269	

Table : 22a

IMARES, 18APR2008 11:27:11

Species : Bass
 Year : 2007, 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
IVC	391001	09/02/2007	OD23	Gill net	32F3	0	9	60	60		29	29
						0	9	60	60		29	29
						0	9	60	60		29	29

Table : 22b

IMARES, 18APR2008 11:27:11

Species : Bass
 Year : 2007, 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
IVC	391002	13/04/2007	OD23	Gill net	32F3	0	9	30	78		32	32
						0	9	30	78		32	32
						0	9	30	78		32	32

Table : 22c

IMARES, 18APR2008 11:27:11

Species : Bass
 Year : 2007, 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	Cat 4	Sample weight (kg)	Number measured	Number aged
IVC	391003	07/09/2007	OD6	Beam trawl	31F2	0	8	7	8		21	21
						0	8	7	8		21	21
						0	8	7	8		21	21

Table : 22d

IMARES, 18APR2008 11:27:11

Species : Bass
 Year : 2007, 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	Cat 4	Sample weight (kg)	Number measured	Number aged
IVC	391004	16/11/2007	GO23	Beam trawl	33F2	6	26	18	11		43	43
						6	26	18	11		43	43
						6	26	18	11		43	43

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 Overview of sampling information
 Generated: 18APR2008 11:27:11

Type	species	sample type	area	Q	number of samples	Number measured	Number aged	
Commercial	Bass	age/length	IVC	1	1	29	29	
				2	1	32	32	
				3	1	21	21	
				4	1	43	43	
					4	125	125	
					=====	=====	=====	
	Blue whiting	age/length	VIIC	1	21	4611	525	
				VIA	2	55	12592	1375
				VIB	2	7	1344	175
						83	18547	2075
					=====	=====	=====	
	Brill	age/length	IVB	1	2	75	75	
				2	3	105	105	
				3	2	50	50	
				4	2	66	66	
			IVC	1	4	119	119	
2				4	121	121		
3				3	122	122		
4				3	129	129		
VIID			4	1	58	58		
					24	845	845	
					=====	=====	=====	
Cod	age	IVB	1	2		111		
			2	5		287		
			3	4		219		
			4	3		148		
		IVC	1	11		578		
			2	3		150		
			3	1		53		
			4	11		528		
					40		2074	
					=====	=====	=====	

	length	IVB	1	2	111	
			2	5	287	
			3	4	219	
			4	3	147	
		IVC	1	11	578	
			2	3	150	
			3	1	53	
			4	11	528	
				-----	-----	-----
				40	2073	
				=====	=====	=====
Common Shrimp	length	IVB	2	1	118	
			3	1	133	
			4	2	263	
		IVC	1	4	834	
			2	4	641	
			3	6	983	
			4	6	1155	
				-----	-----	-----
				24	4127	
				=====	=====	=====
Dab	age	IVB	1	1	25	
			2	2	50	
			3	1	25	
			4	1	25	
		IVC	1	2	50	
			2	2	50	
			3	2	50	
			4	2	50	
				-----	-----	-----
				13	325	
				=====	=====	=====

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 Overview of sampling information
 Generated: 18APR2008 11:27:11

Type	species	sample type	area	Q	number of samples	Number measured	Number aged	
Commercial	Dab	length	IVB	1	1	148		
				2	2	237		
				3	2	210		
				4	2	184		
			IVC	1	6	542		
				2	2	557		
				3	2	358		
				4	6	539		

					23	2775	-----	
					=====	=====	=====	
	Greater argentine	age/length	VB	2	2	134	50	
				VIA	2	28	2088	700

						30	2222	750
				=====	=====	=====		
Herring	age/length	IIA	4	7	873	175		
			IVA	1	2	271	50	
				2	38	6428	950	
		IVB	3	81	10026	2025		
				2	2	462	50	
		IVC	3	1	105	25		
				1	1	233	25	
		VIA	1	1	150	25		
		VIID	1	5	1060	125		
			4	1	129	25		
		VIIIE	4	1	101	25		

				140	19838	3500		
				=====	=====	=====		
Horse mackerel	age/length	IVC	1	4	524	100		
				4	1	102	25	
				2	7	403	175	
				1	3	350	75	

3 1 126 25

			VIID	1	13	1856	325
				3	6	1142	150
				4	9	1573	225
			VIIE	3	9	1686	225
				4	7	1366	175
			VIIH	1	2	231	50
			VIIJ	1	4	565	100
				2	6	949	150
				3	1	130	25
					-----	-----	-----
					73	11003	1825
					=====	=====	=====
Lemon sole	age/length		IVB	1	1	40	40
				2	1	50	50
				3	1	75	75
				4	1	50	50
					-----	-----	-----
					4	215	215
					=====	=====	=====
Mackerel	age/length		IVA	2	5	683	125
				3	14	1447	350
			IVB	3	1	105	25
			IVC	4	1	64	25
			VIA	1	5	532	125
				2	8	537	200
				3	1	105	25
			VIIIB	1	2	139	50
				3	1	89	25
			VIID	1	3	376	75
				3	1	118	25
				4	4	412	100
			VIIE	3	5	633	125
				4	2	170	50
			VIIH	1	1	92	25

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 Overview of sampling information
 Generated: 18APR2008 11:27:11

Type	species	sample type	area	Q	number of samples	Number measured	Number aged	
Commercial	Mackerel	age/length	VIIIB	1	1	65	25	
			VIIJ	1	5	344	125	
				2	6	443	150	
				3	1	71	25	
					-----	-----	-----	
					67	6425	1675	
					=====	=====	=====	
	Nephrops	age/length	IVB		1	3	1208	
					2	7	2753	
					3	7	2337	
					4	8	2837	
							-----	-----
					25	9135		
					=====	=====	=====	
	Plaice	age/length	IIIA		2	2	120	120
				4	1	60	60	
IVB				1	16	945	945	
				2	8	480	480	
IVC			3	10	600	600		
			4	12	720	720		
			1	9	540	540		
			2	4	240	240		
VIID			3	2	119	119		
			4	7	420	420		
			4	1	60	60		
					-----	-----	-----	
						72	4304	4304
				=====	=====	=====		
Ray blond	age/length	IVC		1	13	138		
				2	2	10		
				3	1	9		
				4	11	161		
		VIID	4	1	2			
					-----	-----	-----	
					28	320		
					=====	=====	=====	

Ray spotted	age/length	IVB	1	1	10		
			2	1	15		
			3	2	26		
			4	3	25		
		IVC	1	14	150		
			2	5	25		
			3	3	44		
			4	16	201		
					-----	-----	-----
					45	496	
			=====	=====	=====		
Ray starry	age/length	IVB	2	1	1		

				1	1		
			=====	=====	=====		
Ray thornback	age/length	IVB	1	1	12		
			2	1	6		
			3	1	5		
			4	3	39		
		IVC	1	15	257		
			2	5	79		
			3	3	42		
			4	17	290		
		VIID	4	1	21		

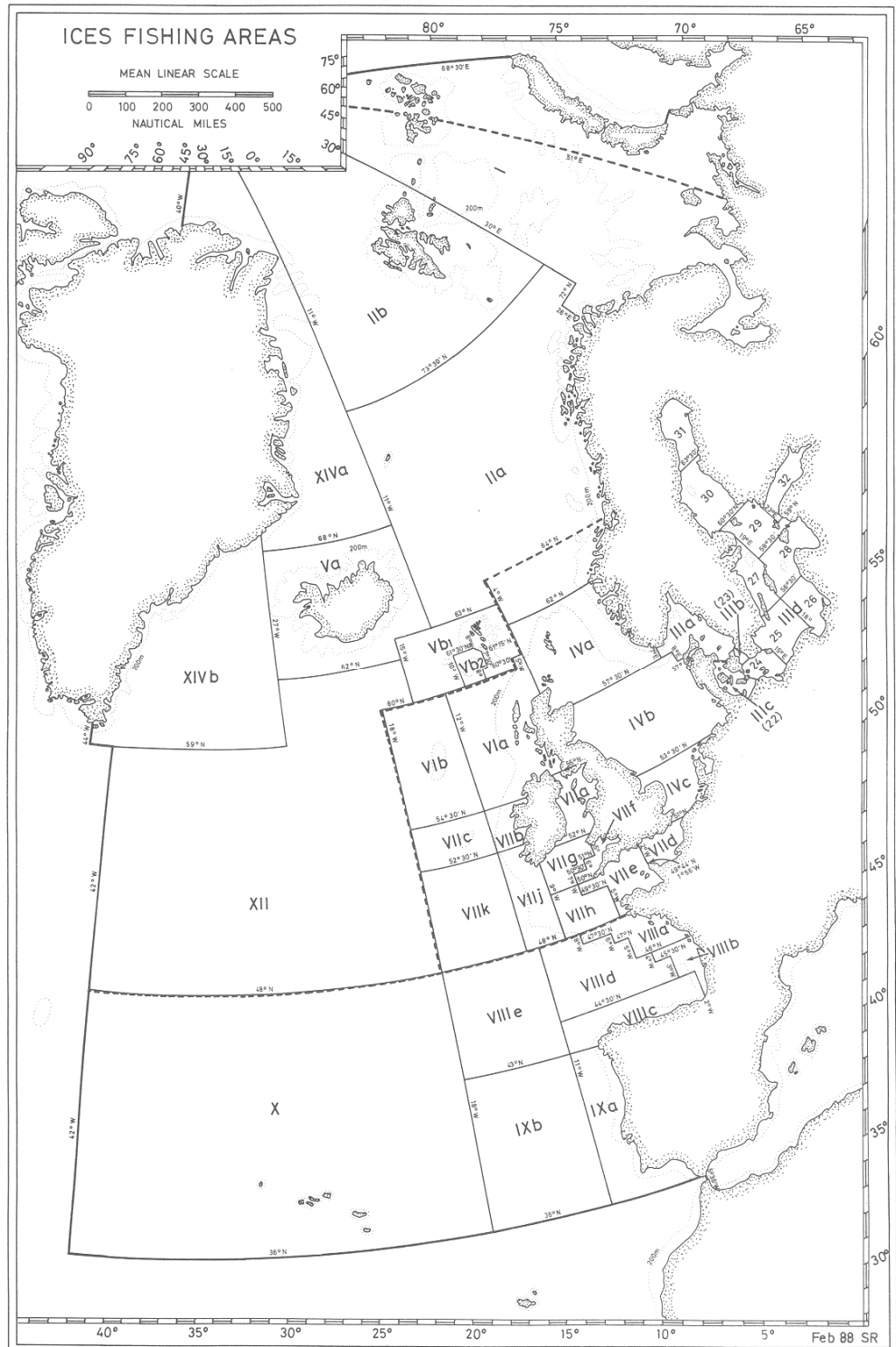
			47	751			
			=====	=====	=====		
Red mullet	length	IVB	3	1	50		
			IVC	2	2	168	
			3	1	34		
					-----	-----	-----
			4	252			
			=====	=====	=====		

Institute for Marine Resources and Ecosystem Studies (IMARES)
 Overview of sampling information
 Generated: 18APR2008 11:27:11

Type	species	sample type	area	Q	number of samples	Number measured	Number aged			
Commercial	Sole	age/length	IVB	1	3	150	150			
				2	8	400	400			
				3	3	150	150			
				4	4	200	200			
			IVC	1	10	498	498			
				2	24	1200	1200			
				3	8	400	400			
				4	9	450	450			
			VIID	3	1	50	50			
							-----	-----	-----	
							70	3498	3498	
						=====	=====	=====		
				Turbot	age/length	IVB	1	3	145	145
							2	2	118	118
							3	2	100	100
4	2	99					99			
IVC	1	3				121	121			
	2	5				235	235			
	3	3				126	126			
	4	3				150	150			
VIID	4	1				53	53			
						-----	-----	-----		
						24	1147	1147		
						=====	=====	=====		
	Whiting	age				IVB	1	1		50
							2	1		50
							3	1		50
			IVC	1	3		150			
				2	1		50			
				4	5		250			
							-----	-----	-----	
						12		600		
						=====	=====	=====		

length	IVB	1	3	255	
		2	2	212	
		3	1	168	
	IVC	1	9	768	
		2	1	133	
		4	7	844	
			-----	-----	-----
			23	2380	
			=====	=====	=====

Figures



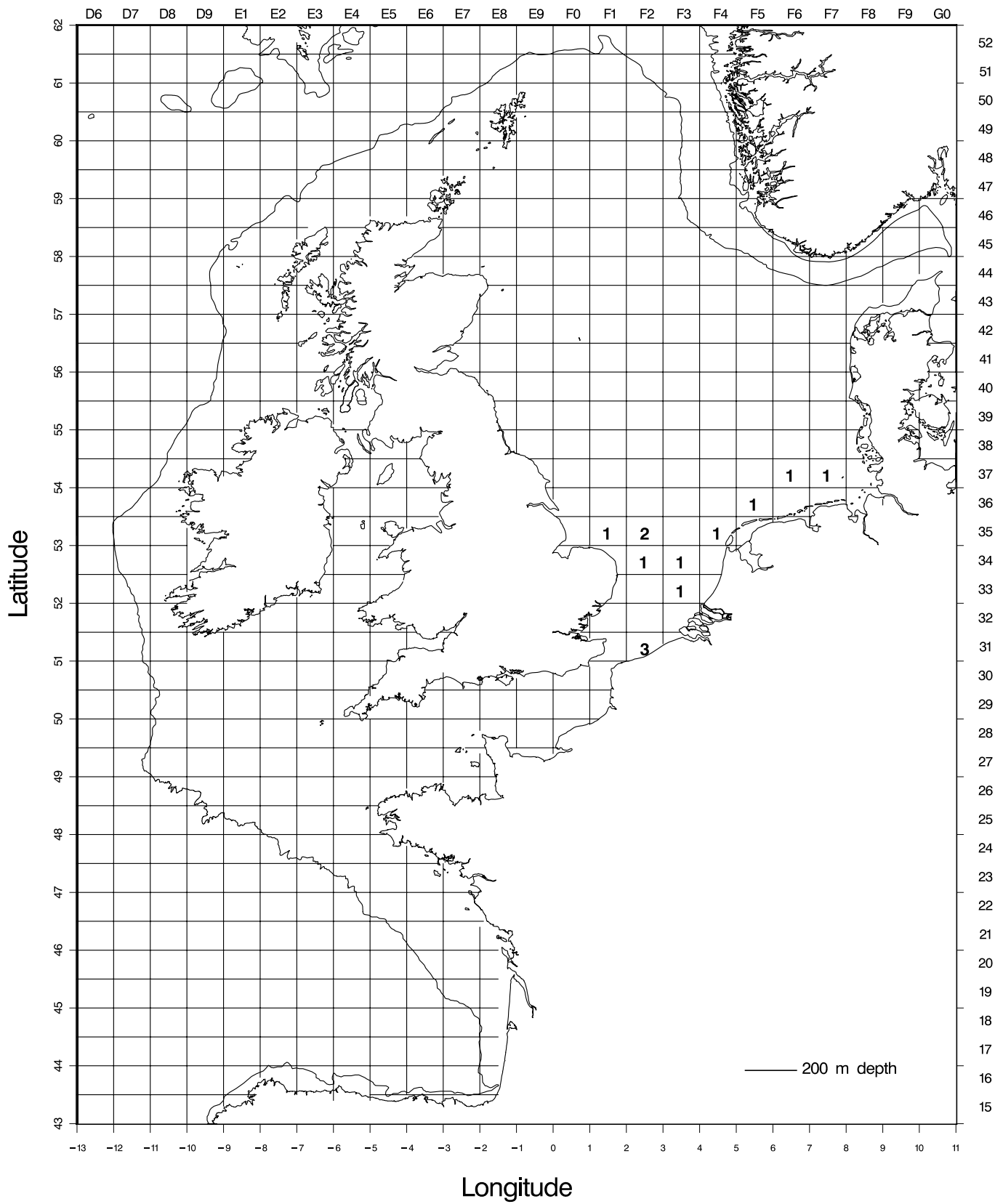


Figure 2a: Sole quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

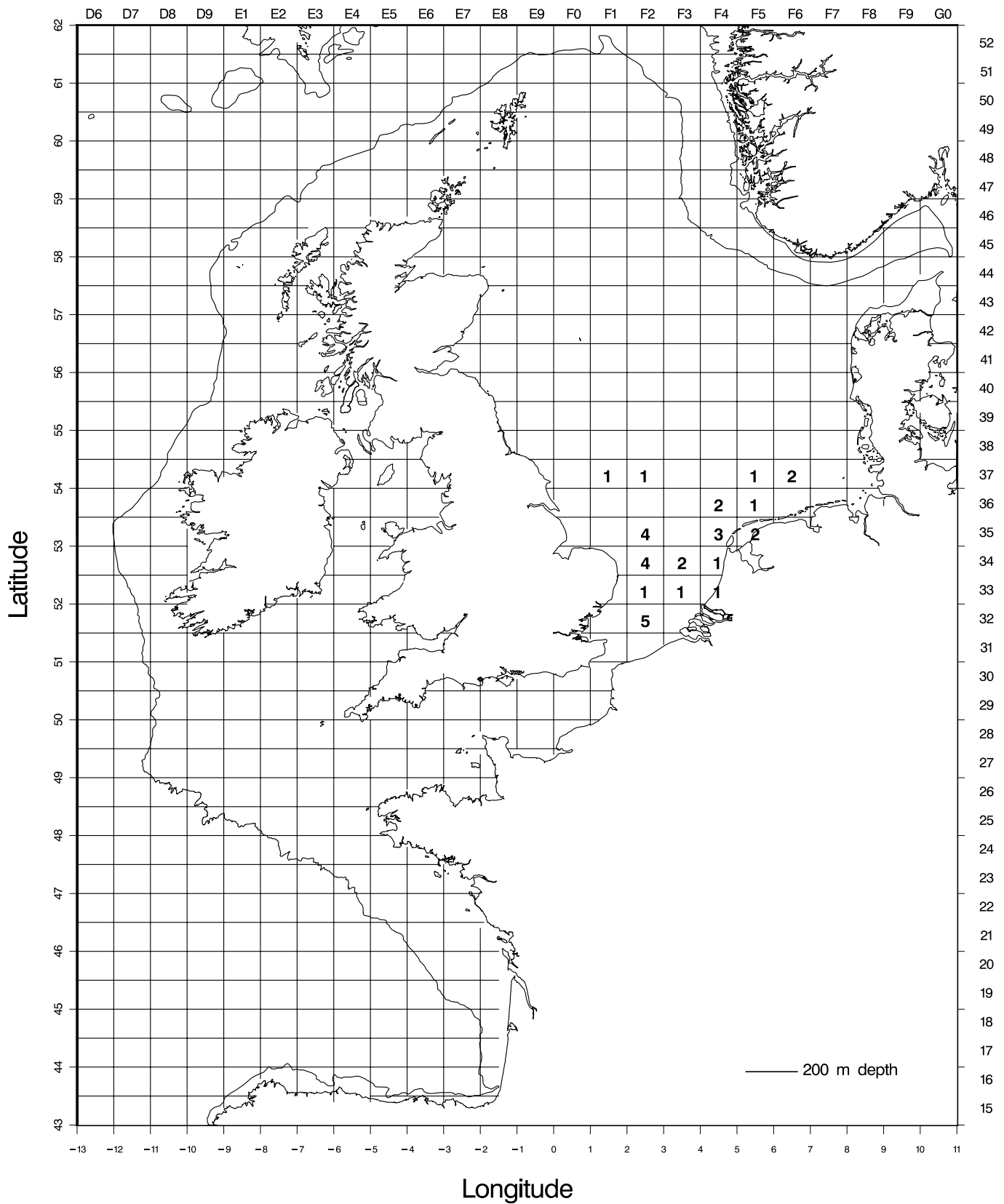


Figure 2b: Sole quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

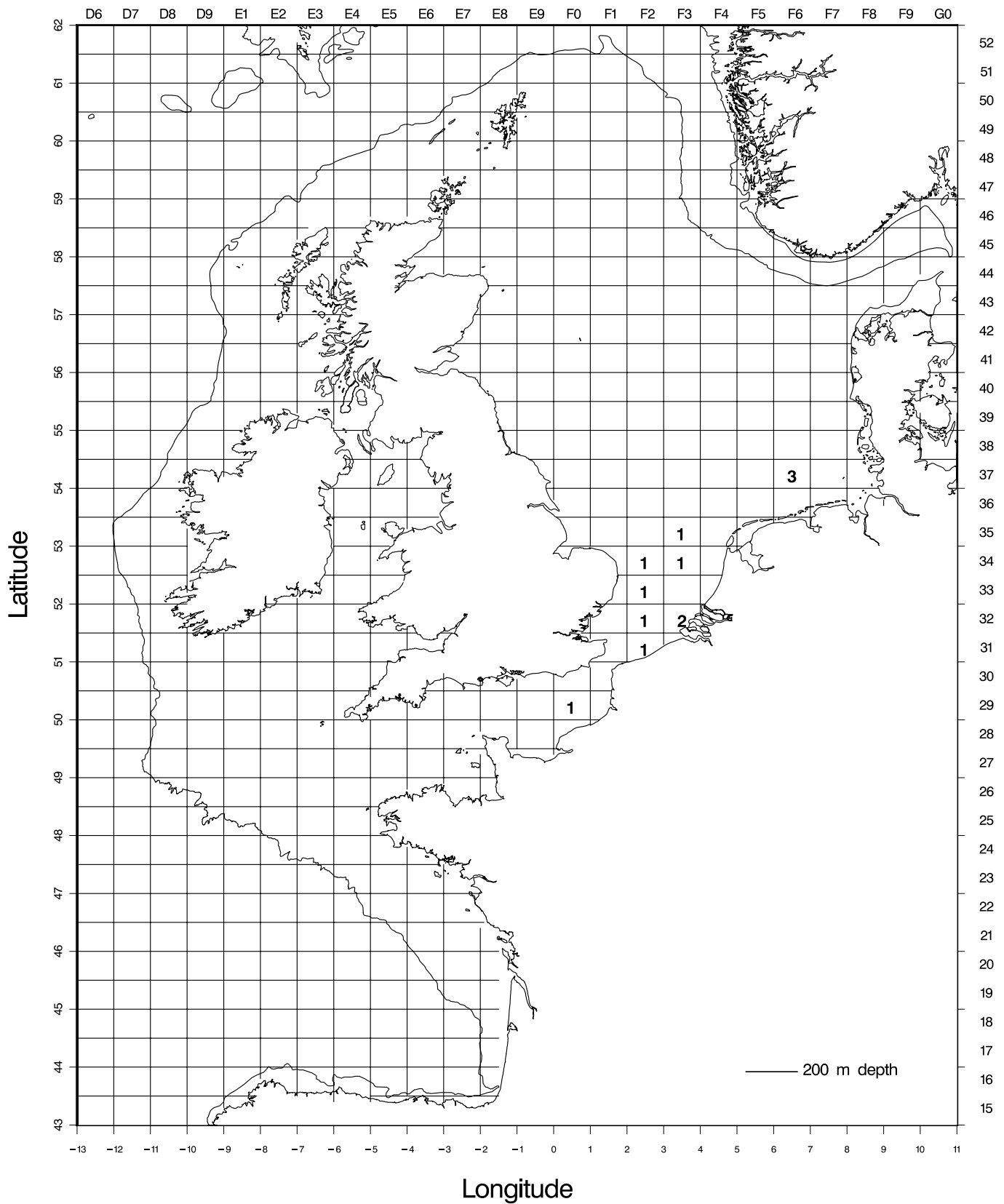


Figure 2c: Sole quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

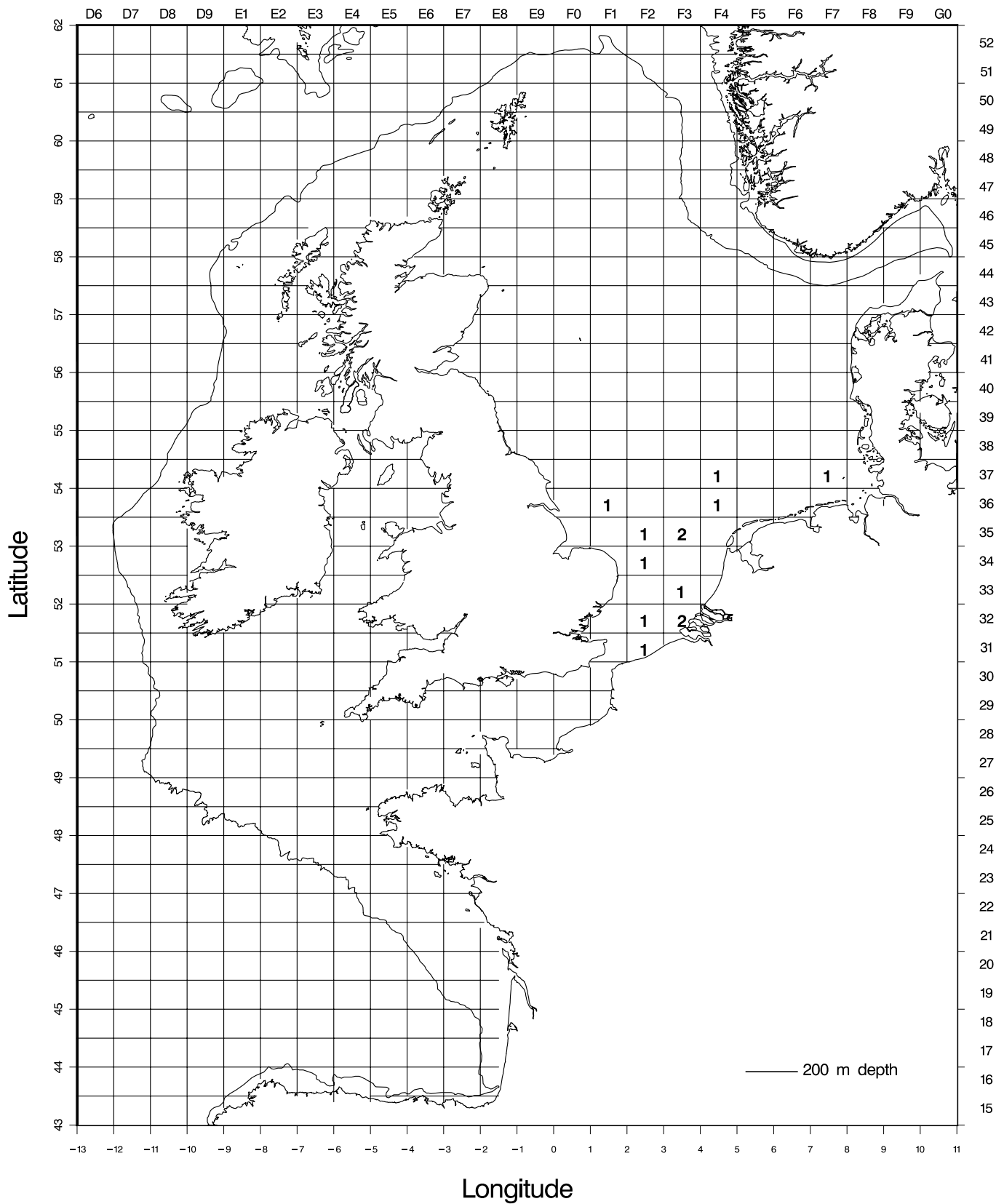


Figure 2d: Sole quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

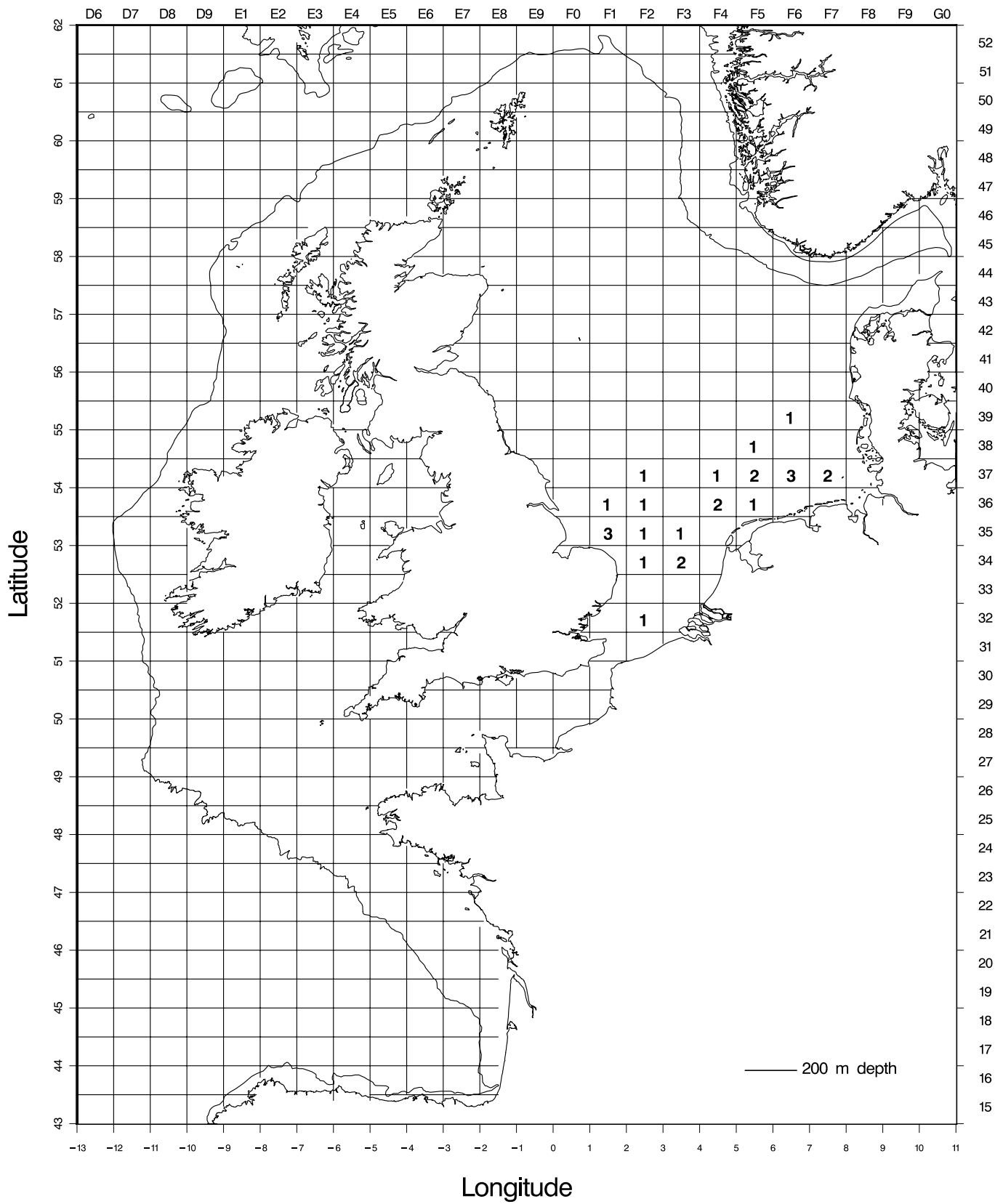


Figure 3a: Plaice quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

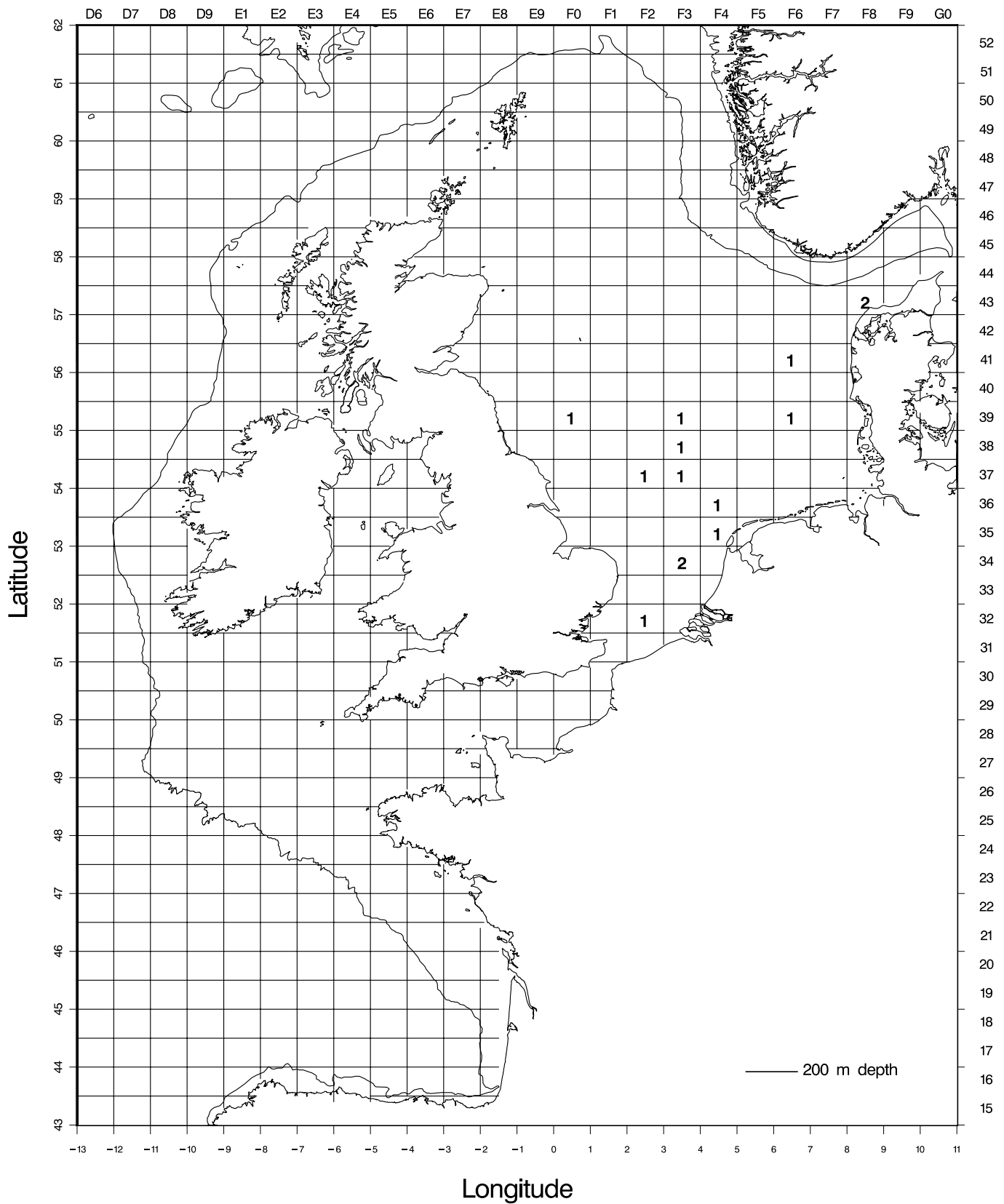


Figure 3b: Plaice quarter 2 2007

Number of age/length samples of commercial catches per ICES rectangle

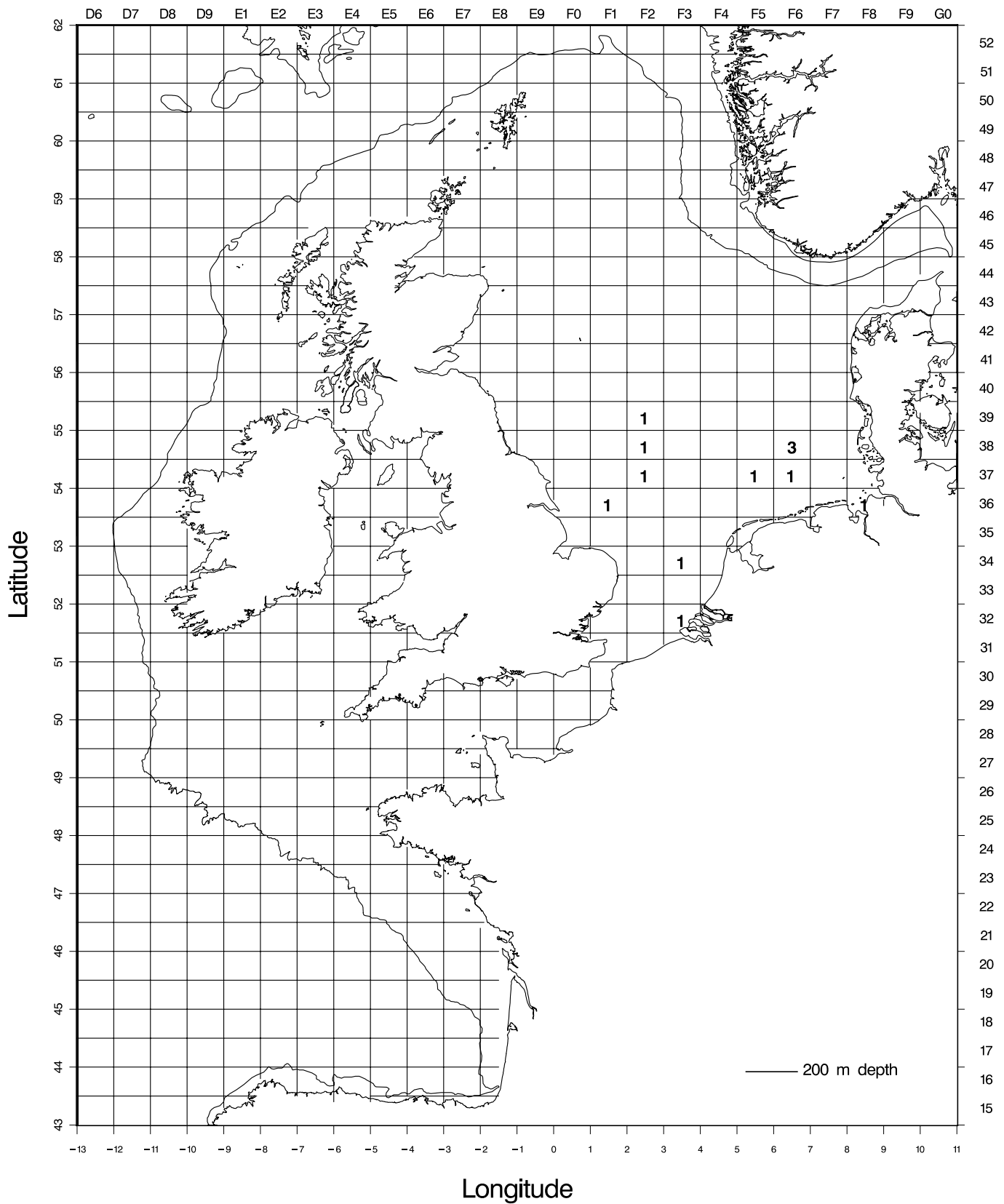


Figure 3c: Plaice quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

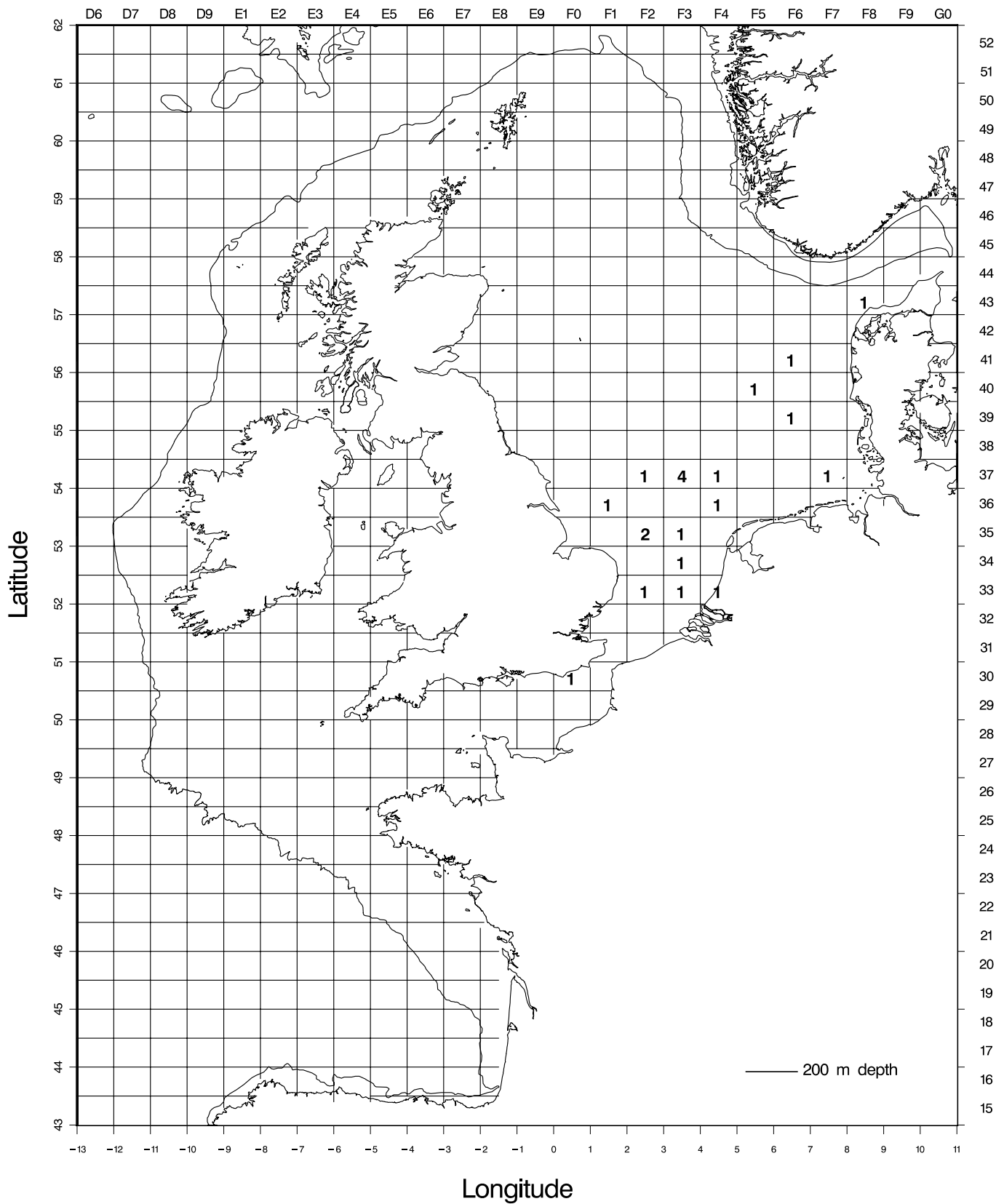


Figure 3d: Plaice quarter 4 2007

Number of age/length samples of commercial catches per ICES rectangle

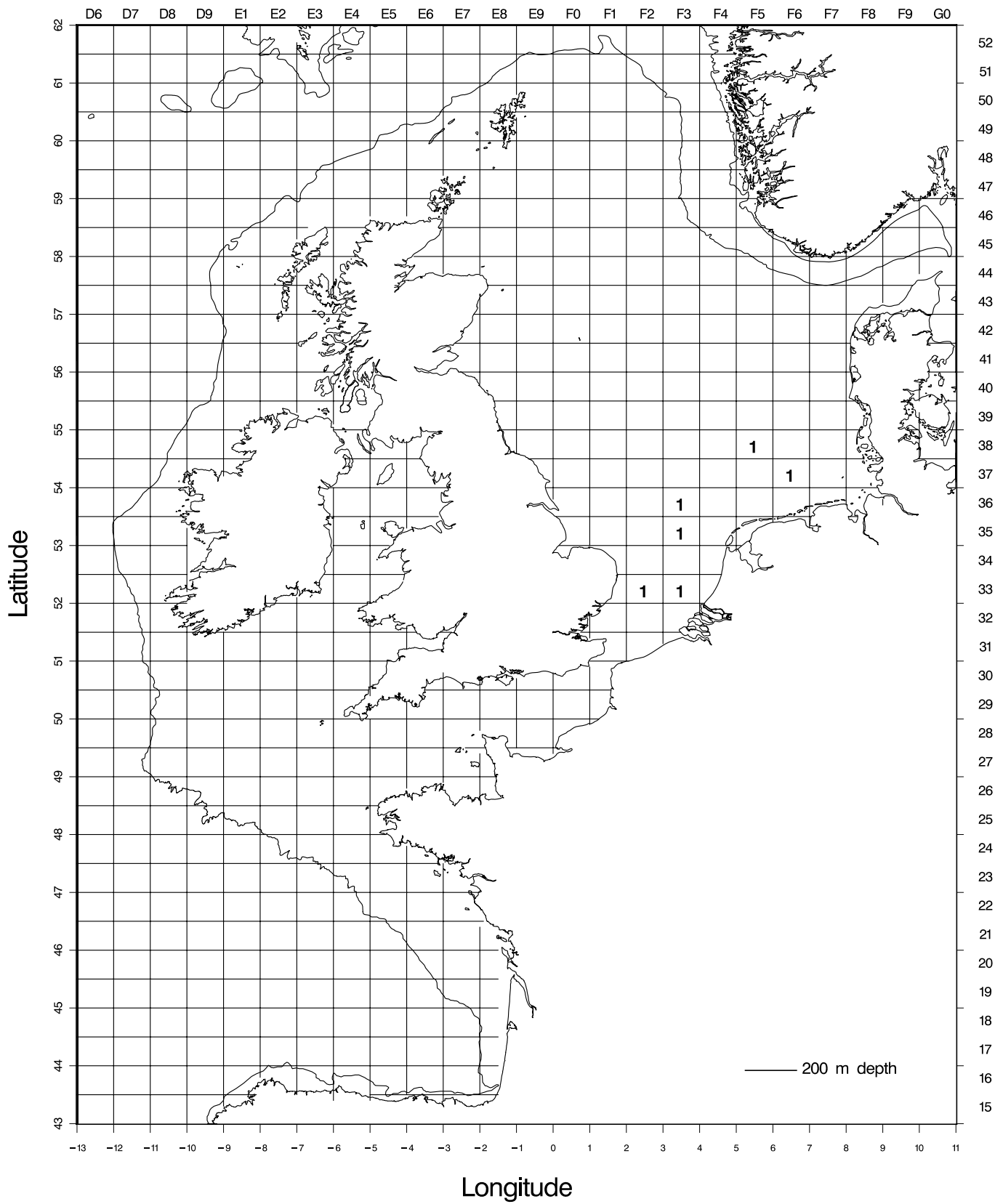


Figure 4a: Turbot quarter 1 2007

Number of age/length samples of commercial catches per ICES rectangle

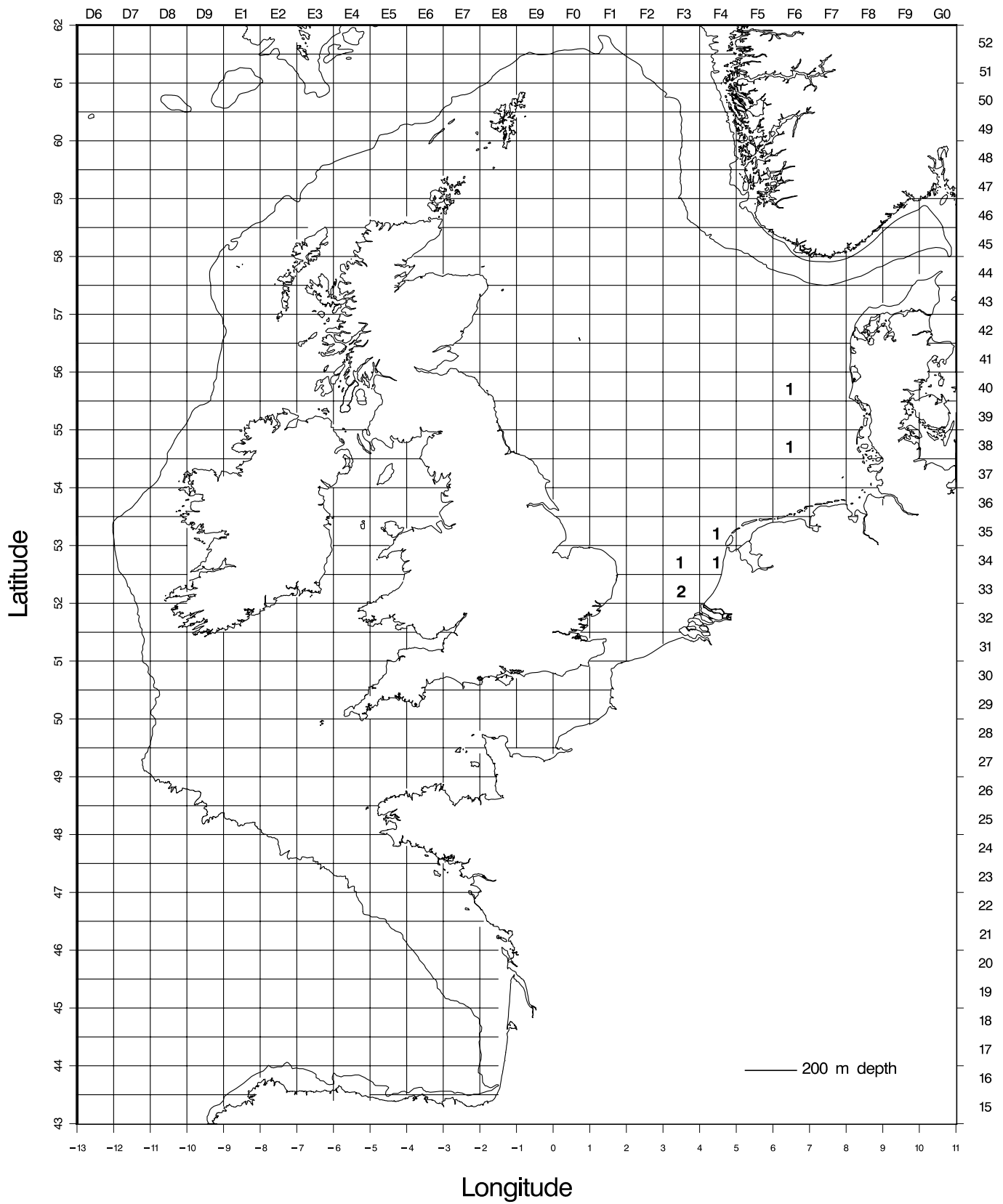


Figure 4b: Turbot quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

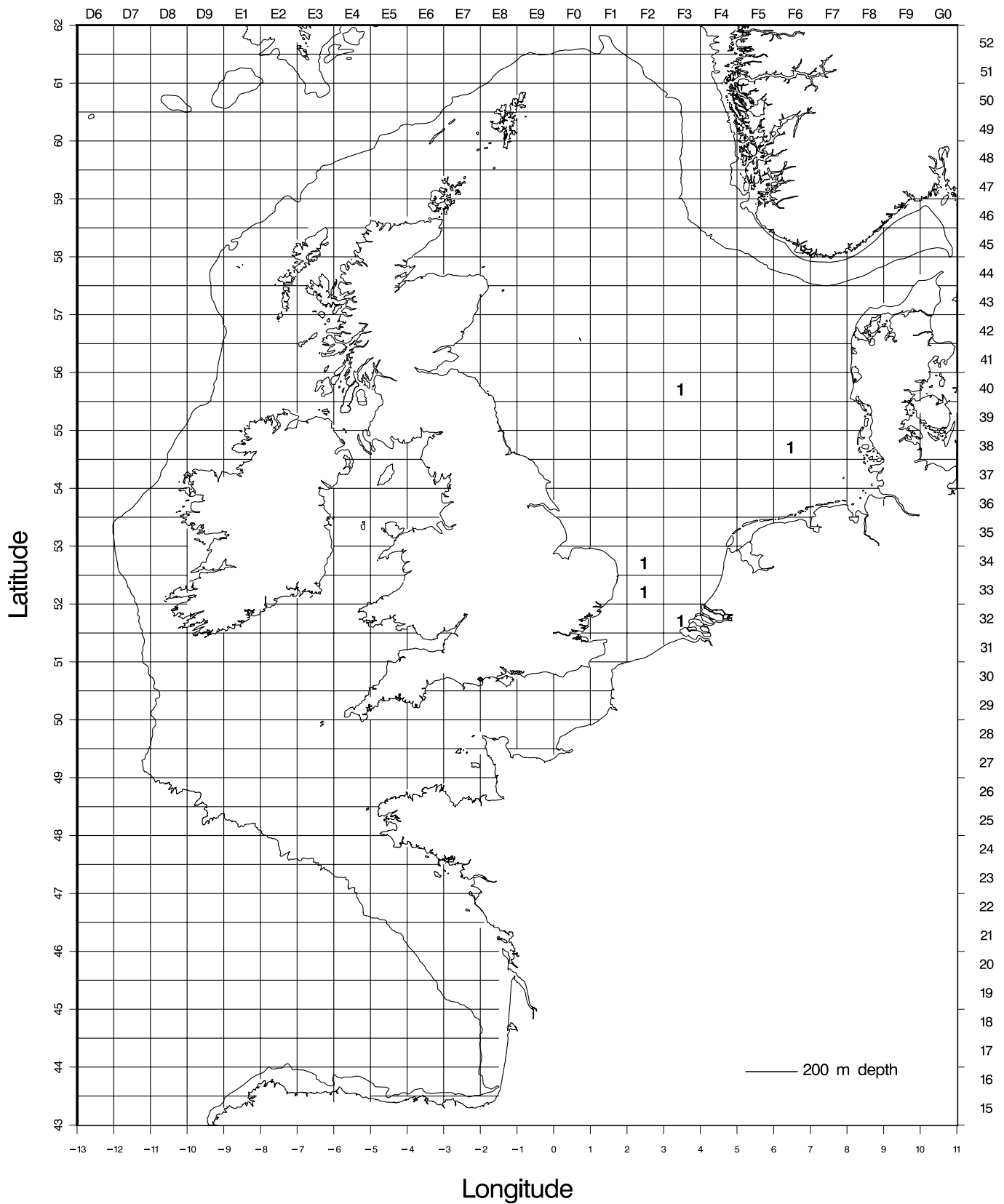


Figure 4c: Turbot quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

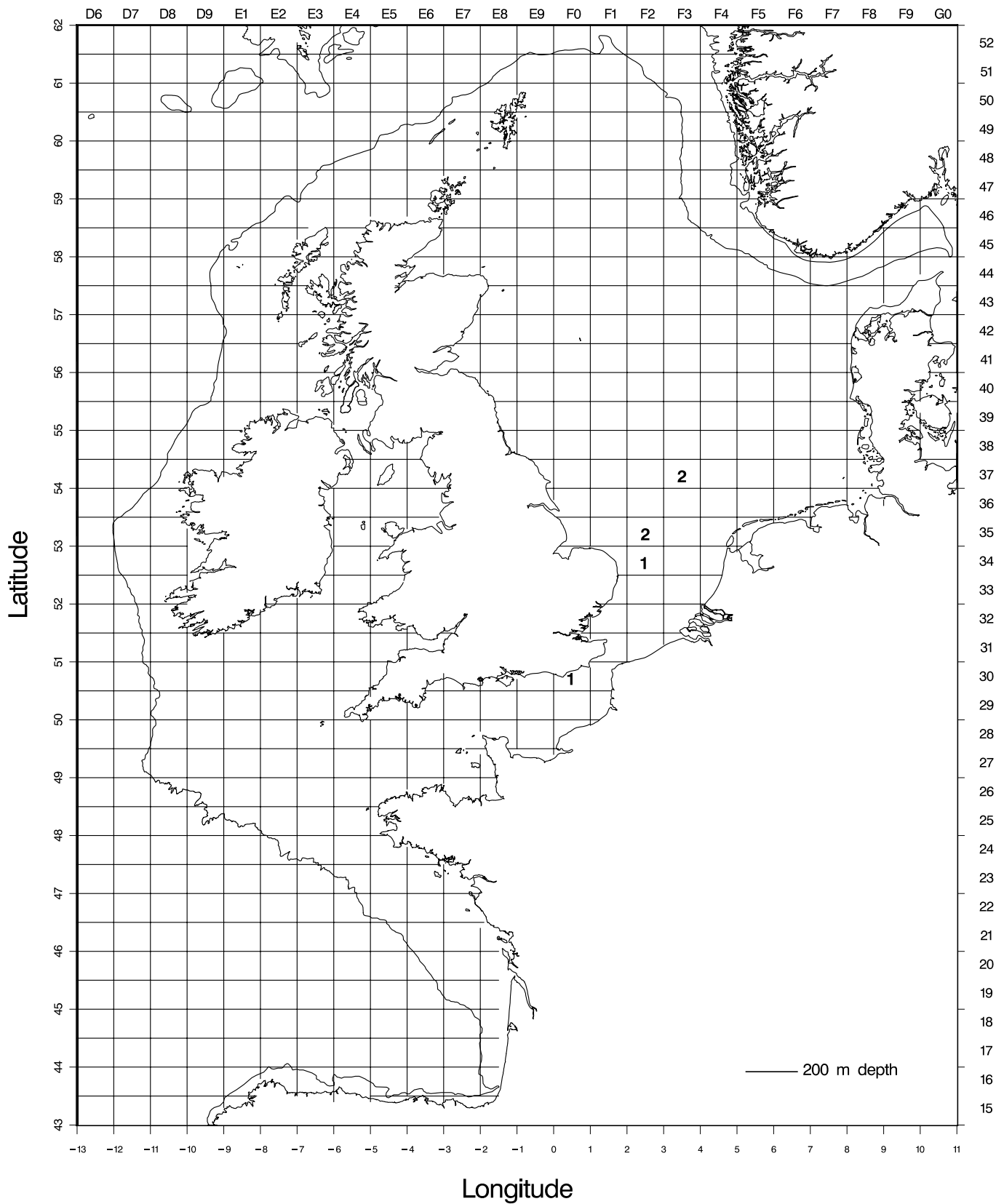


Figure 4d: Turbot quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

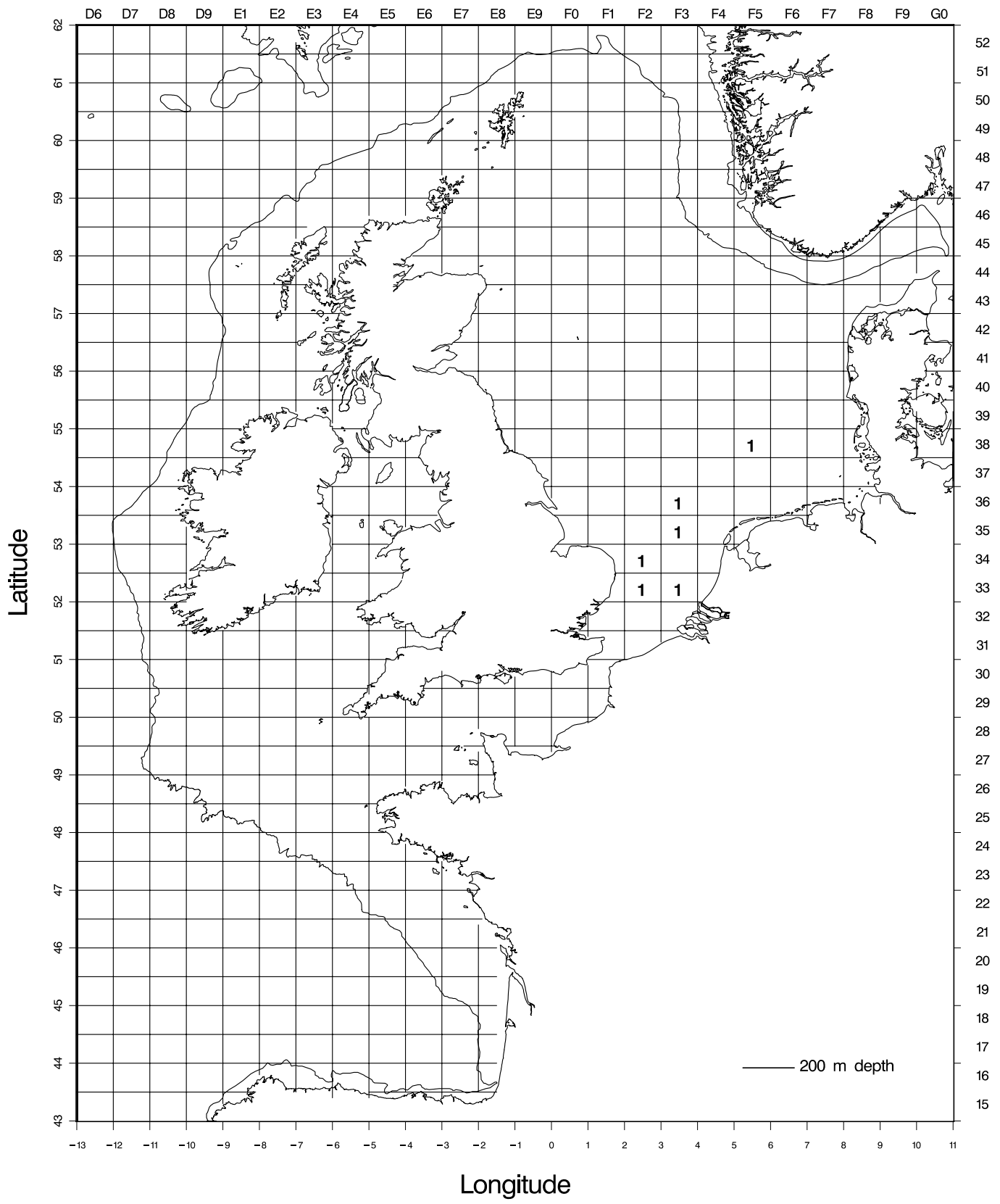


Figure 5a: Brill quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

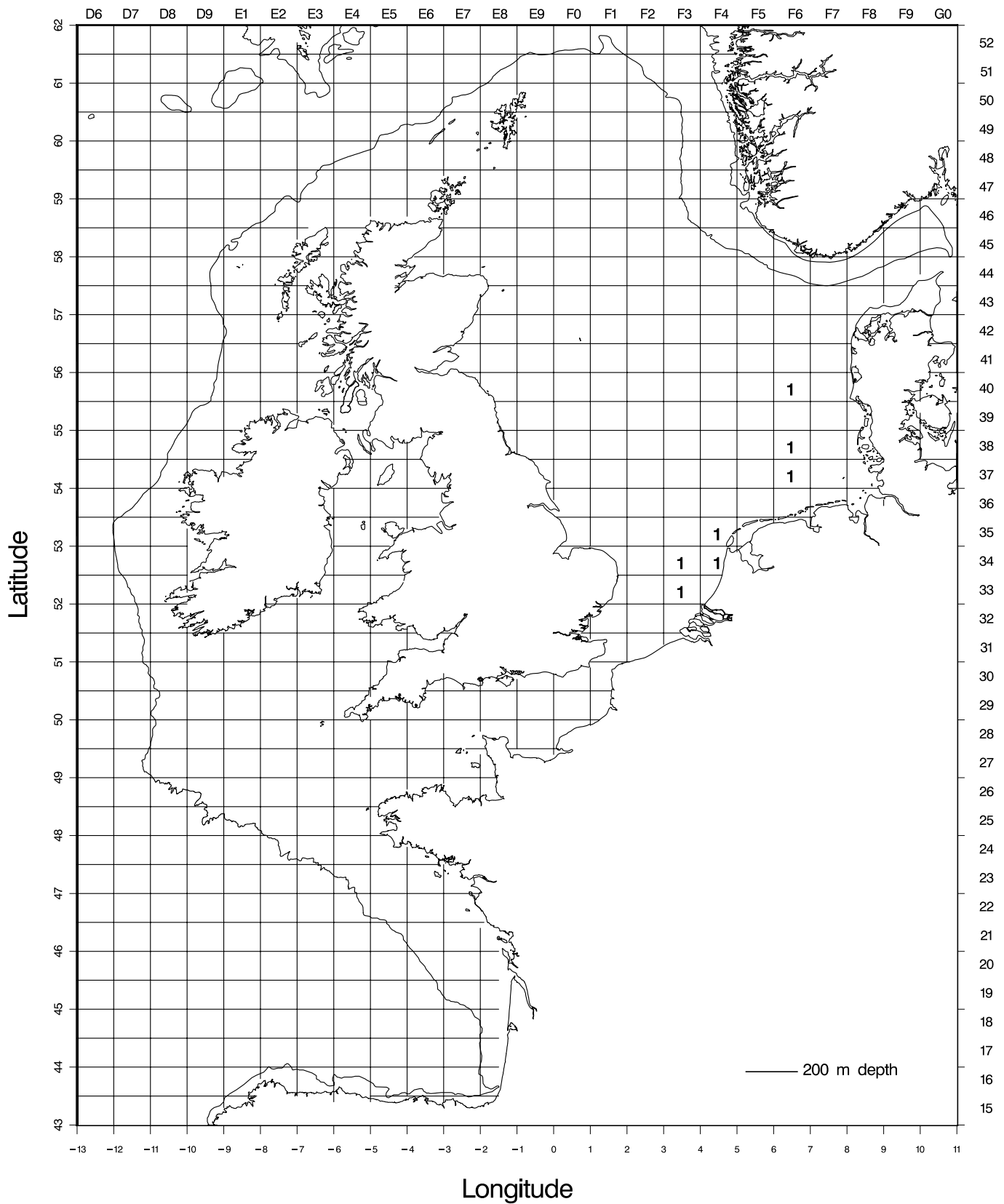


Figure 5b: Brill quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

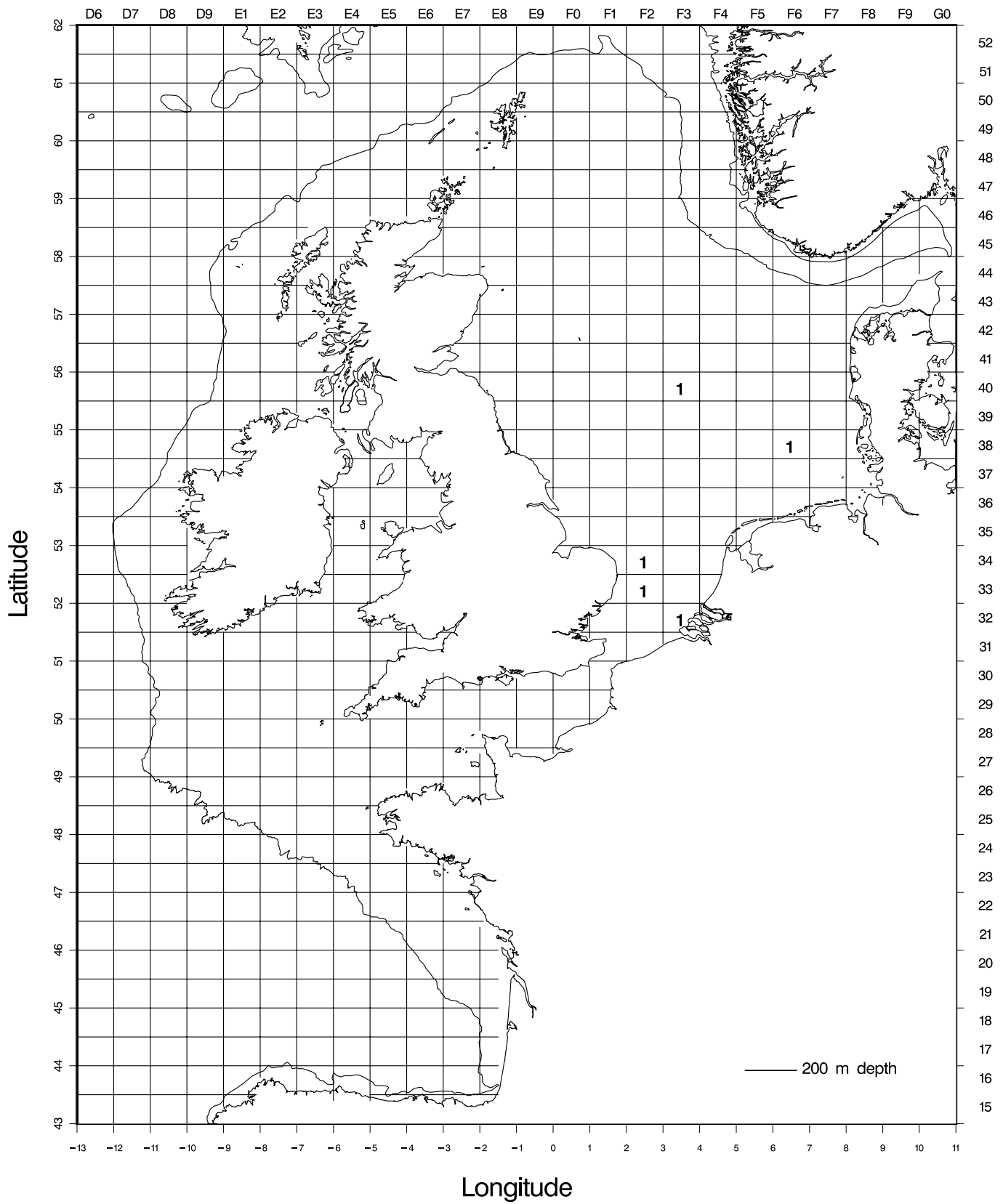


Figure 5c: Brill quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

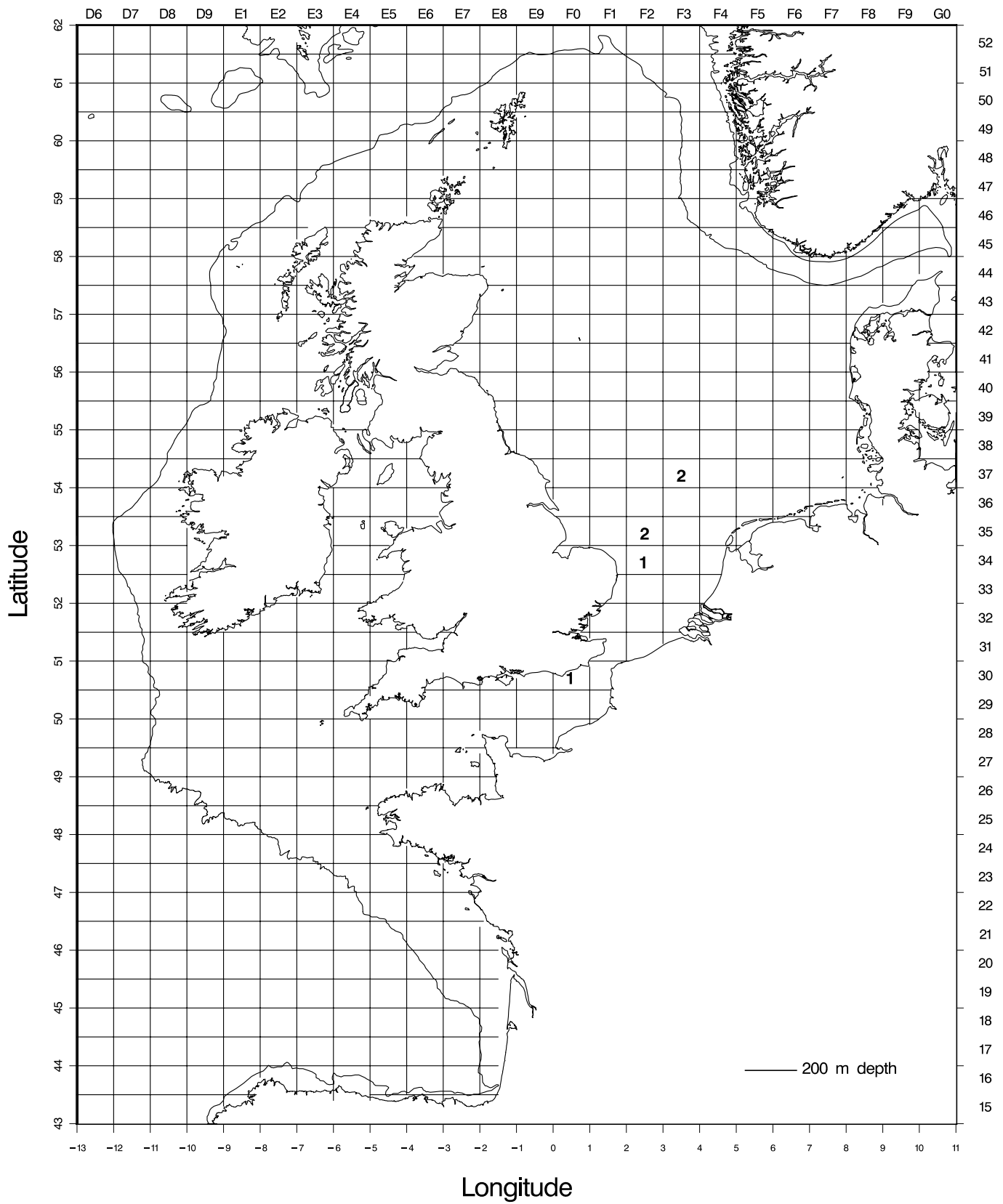


Figure 5d: Brill quarter 4 2007

Number of age/length samples of commercial catches per ICES rectangle

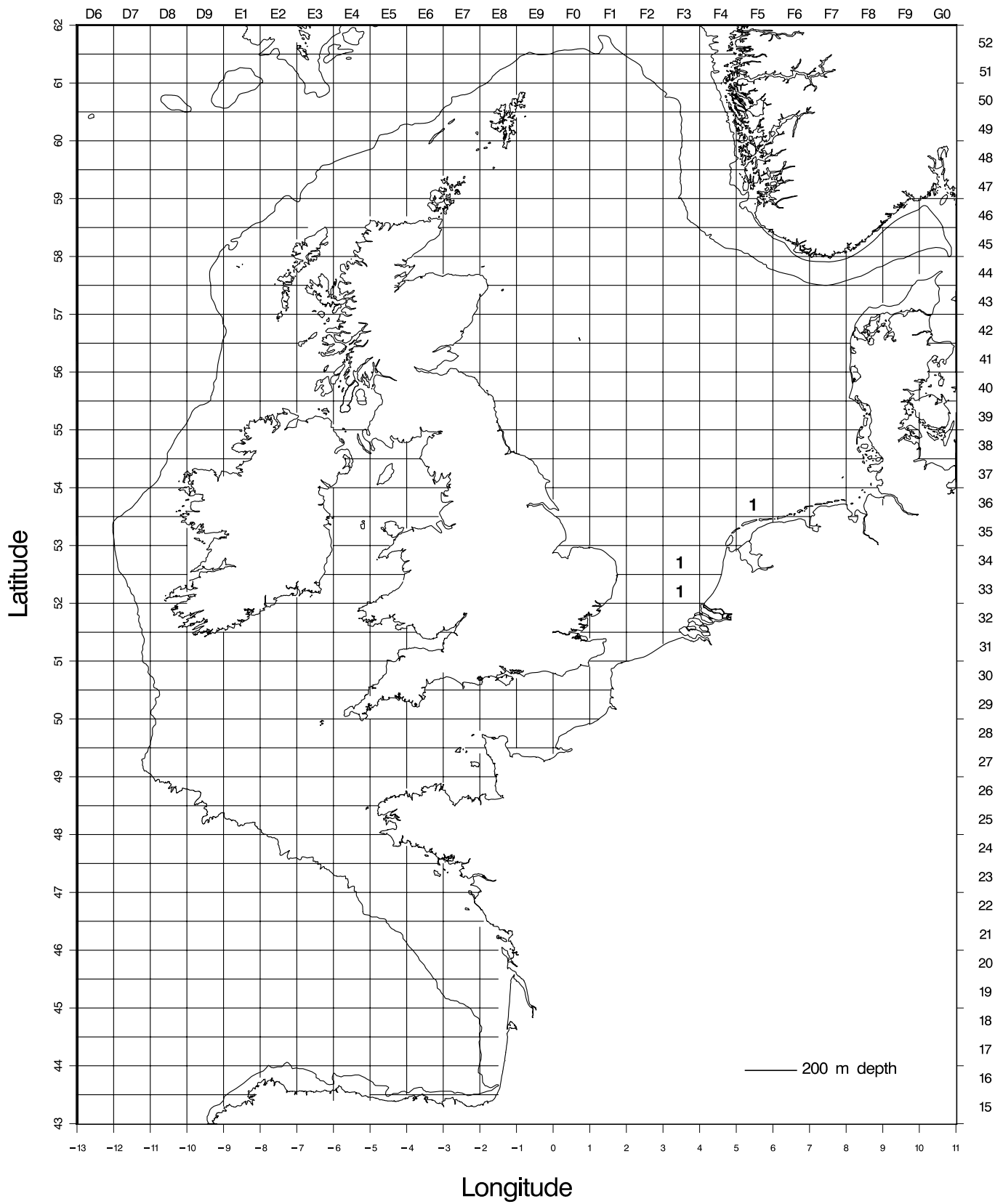


Figure 6a: Dab quarter 1 2007
 Number of age samples of commercial catches per ICES rectangle

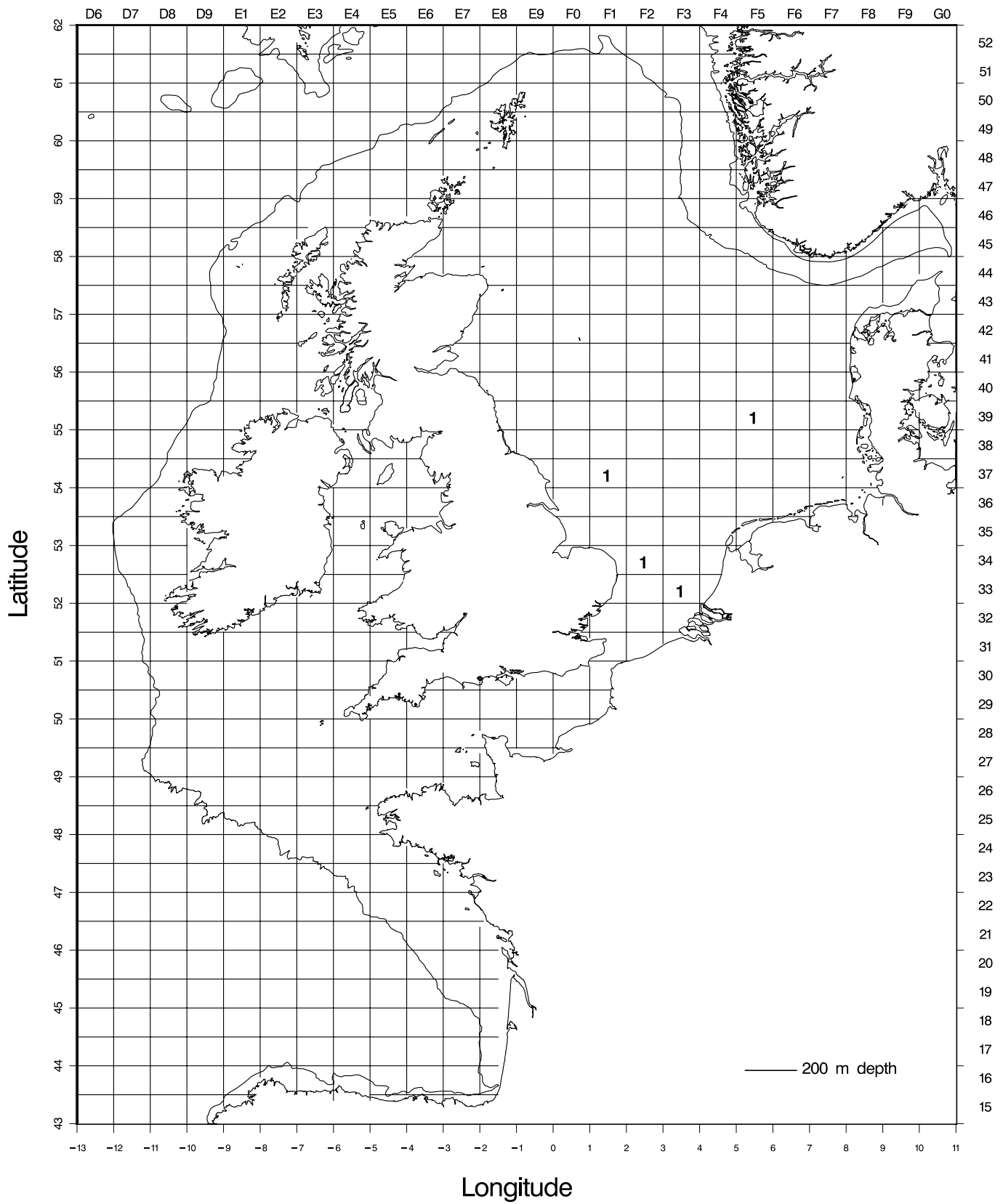


Figure 6b: Dab quarter 2 2007
 Number of age samples of commercial catches per ICES rectangle

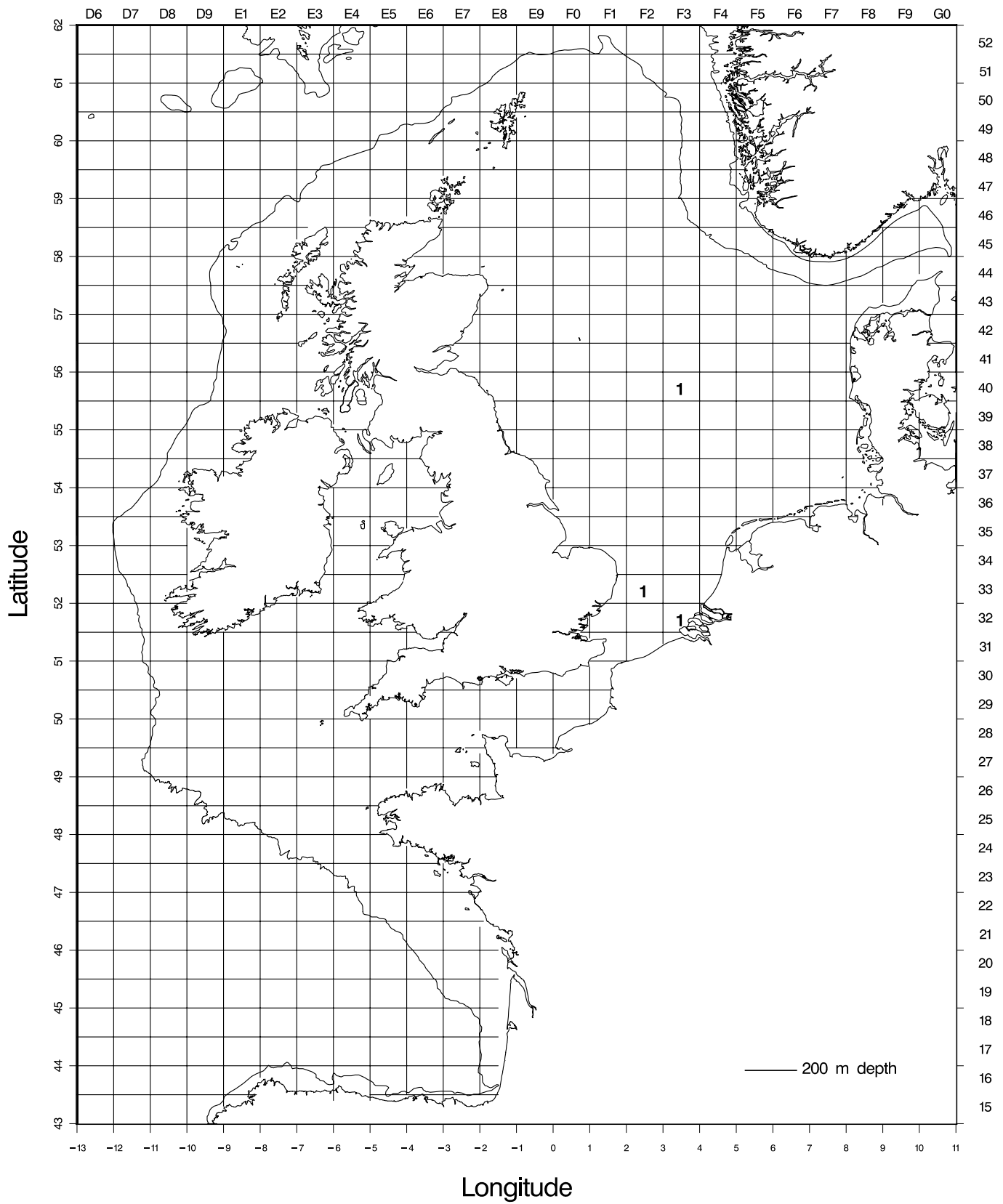


Figure 6c: Dab quarter 3 2007
 Number of age samples of commercial catches per ICES rectangle

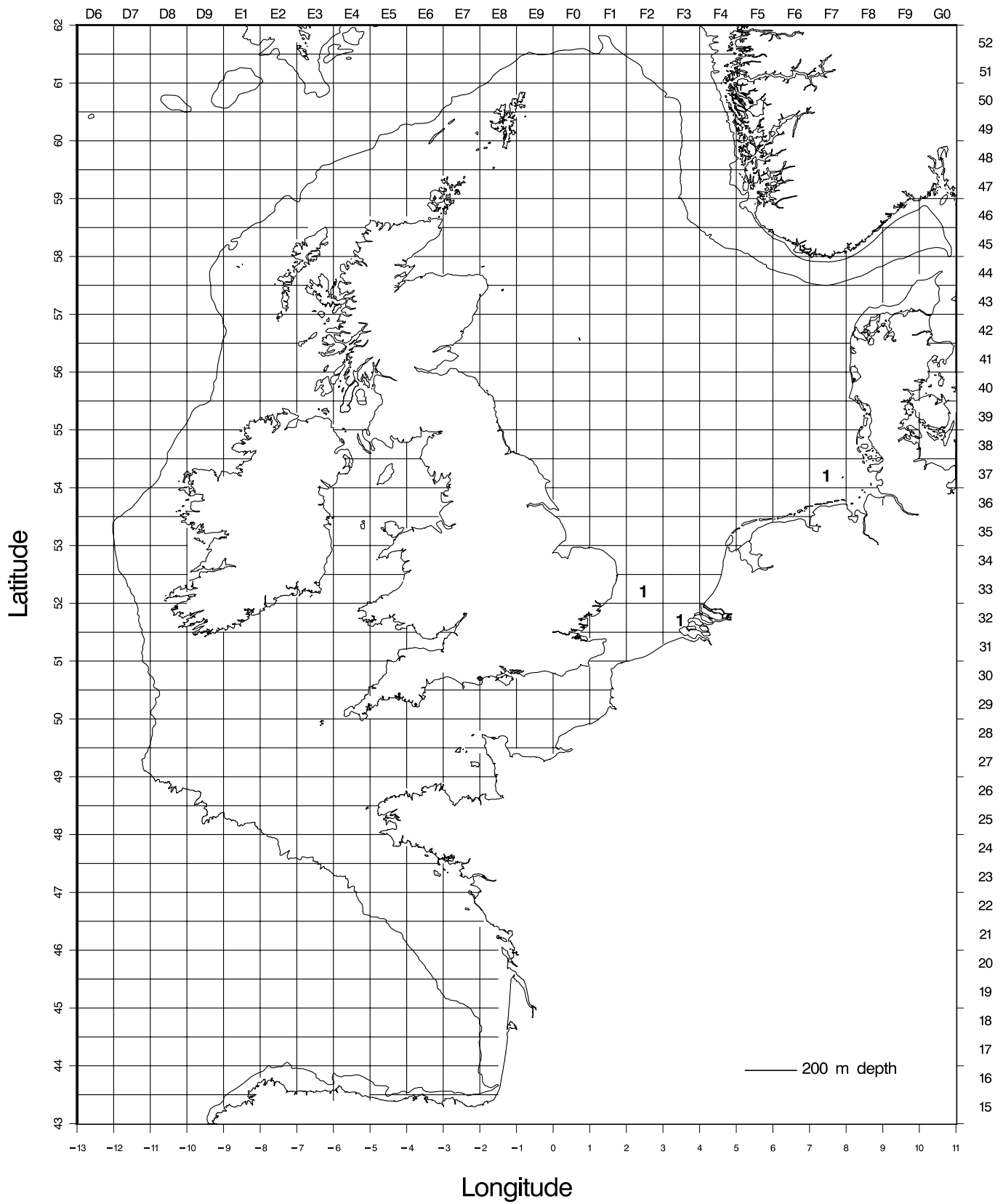


Figure 6d: Dab quarter 4 2007
 Number of age samples of commercial catches per ICES rectangle

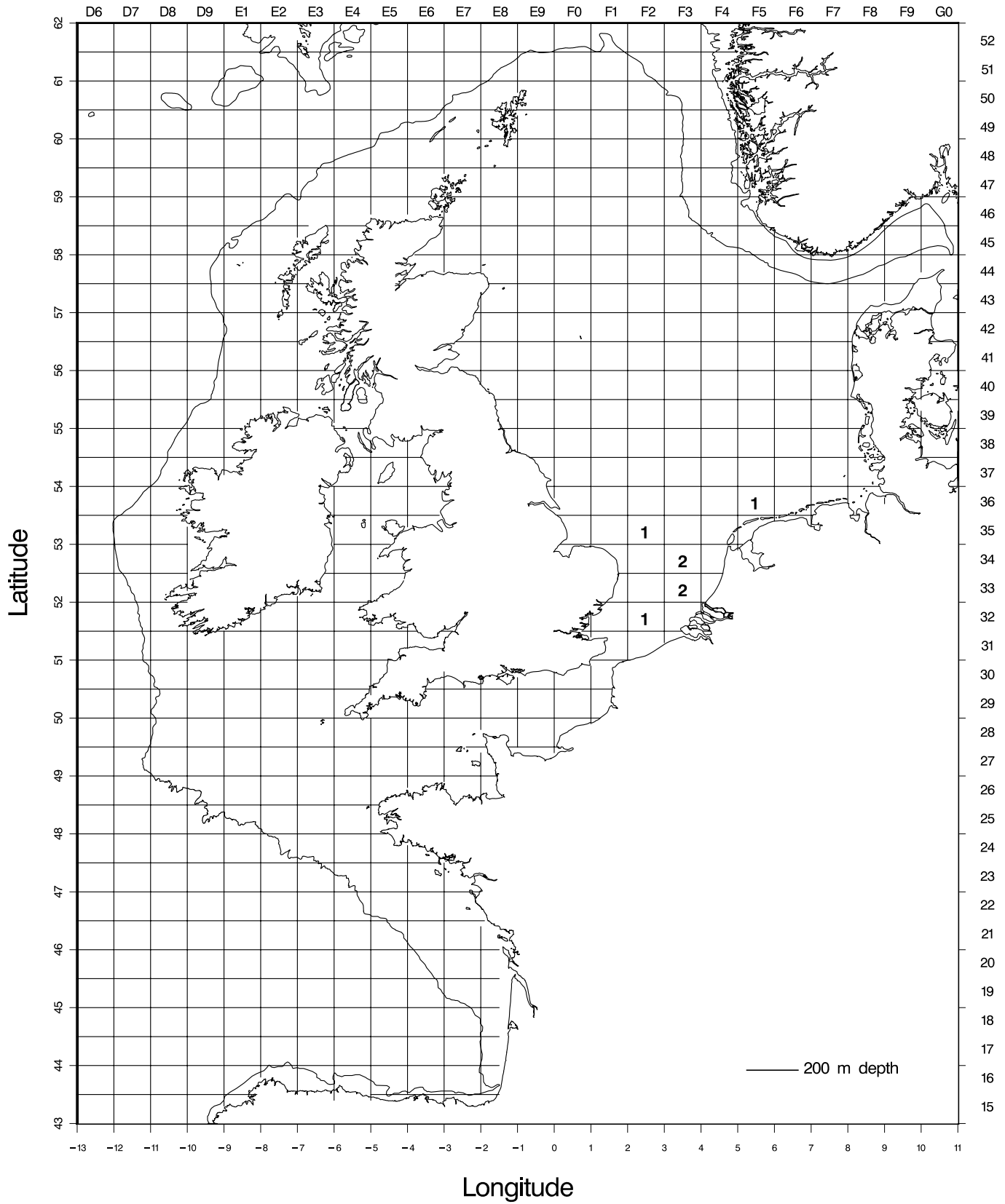


Figure 6e: Dab quarter 1 2007
 Number of length samples of commercial catches per ICES rectangle

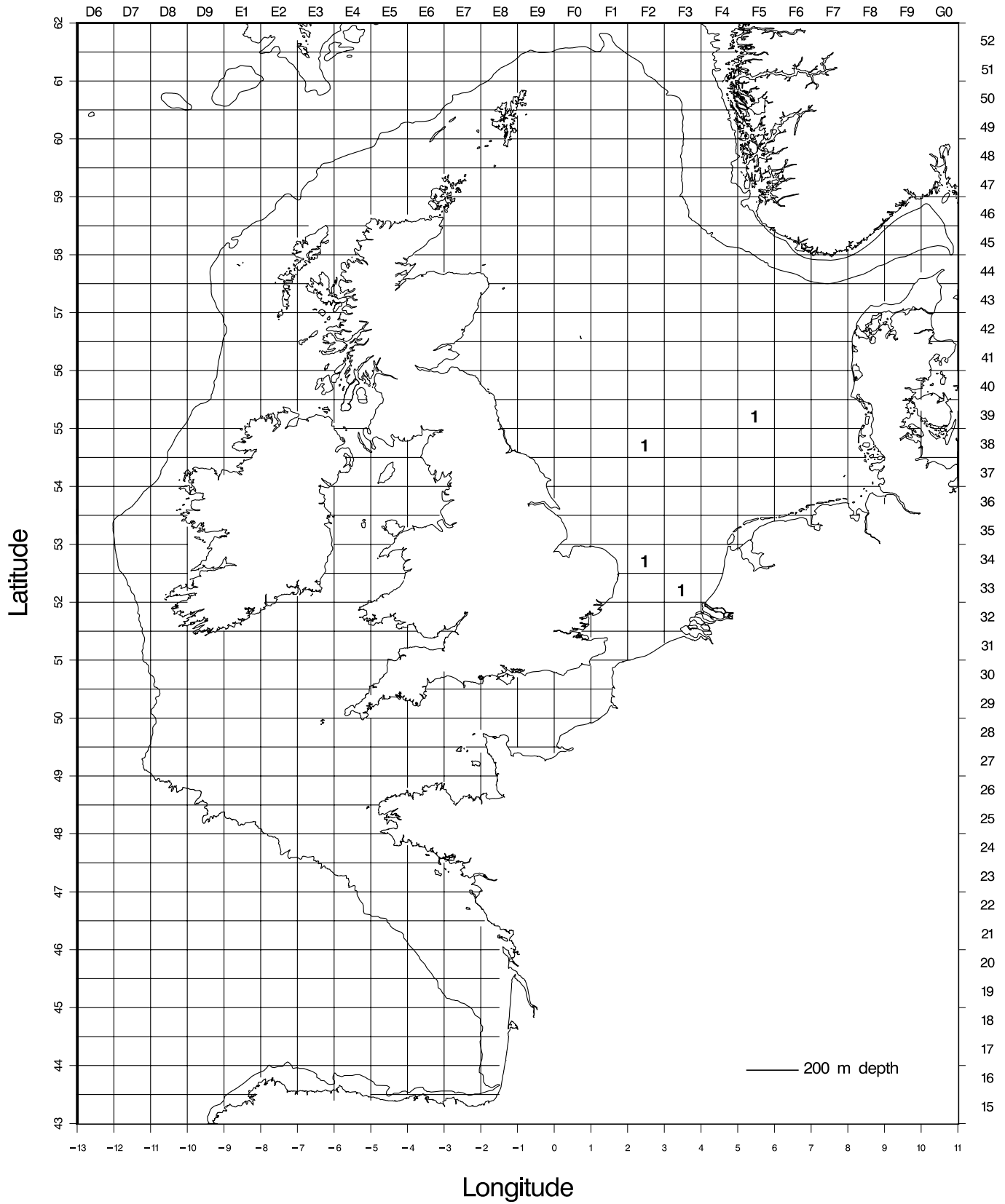


Figure 6f: Dab quarter 2 2007
 Number of length samples of commercial catches per ICES rectangle

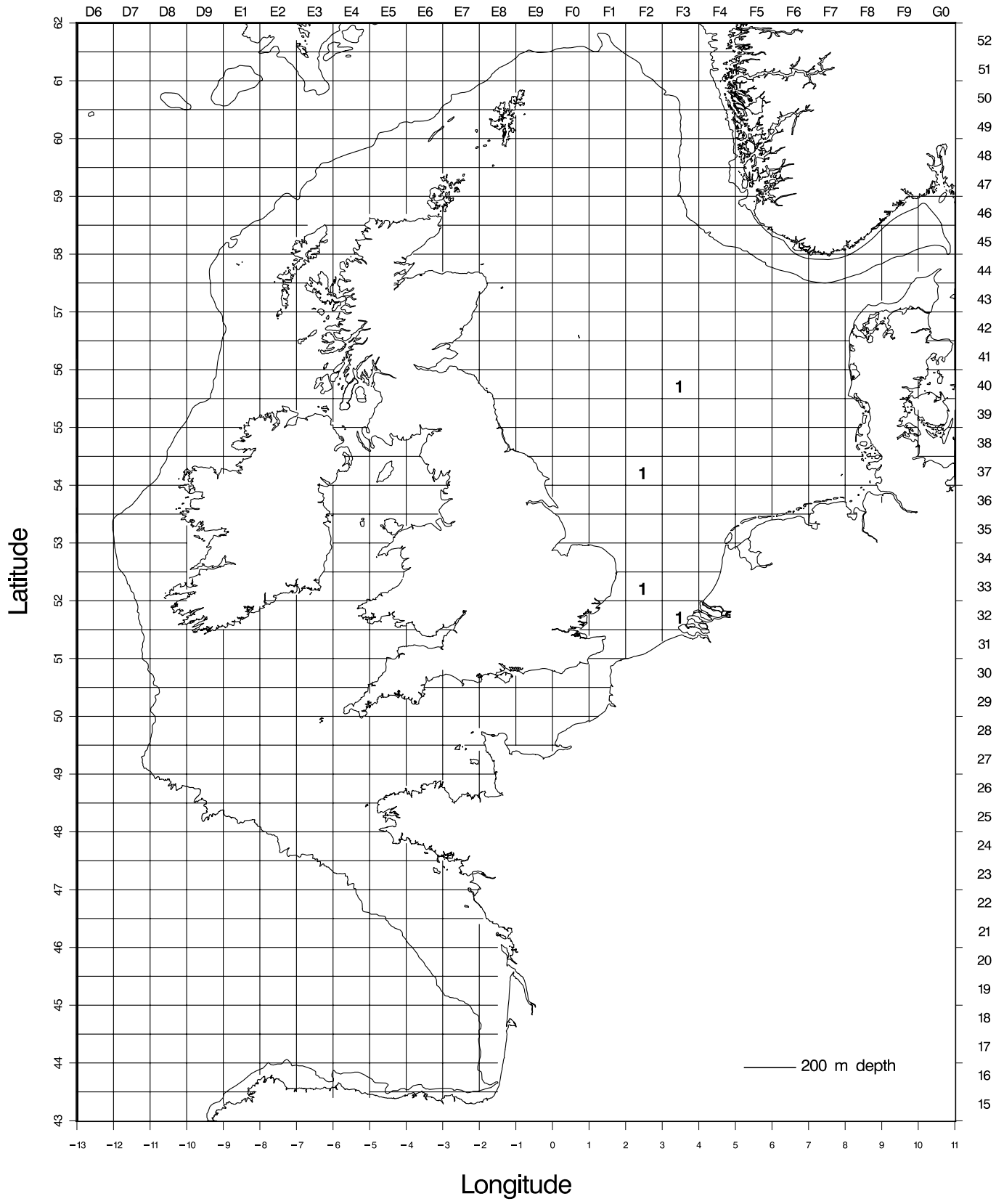


Figure 6g: Dab quarter 3 2007
 Number of length samples of commercial catches per ICES rectangle

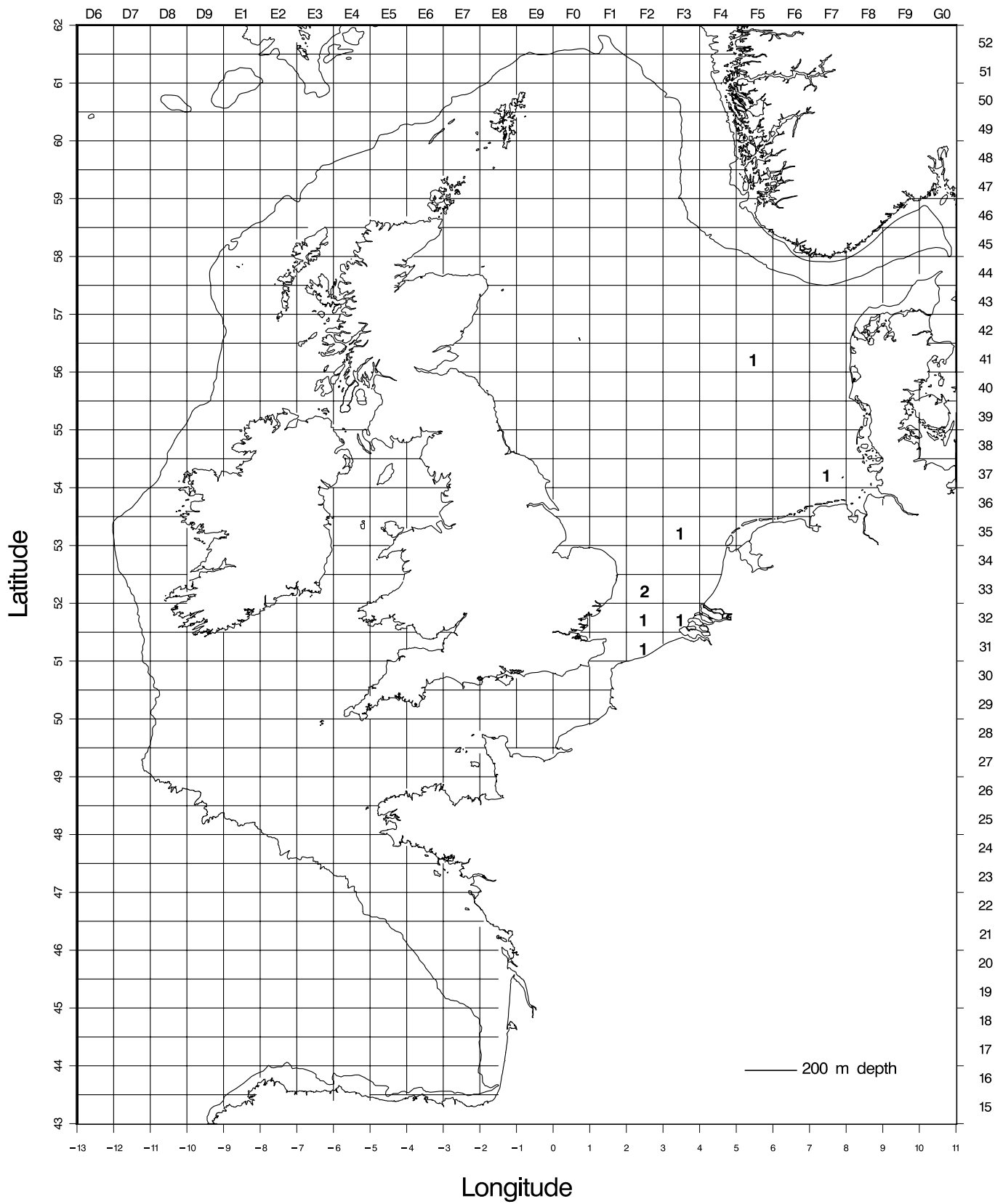


Figure 6h: Dab quarter 4 2007
 Number of length samples of commercial catches per ICES rectangle

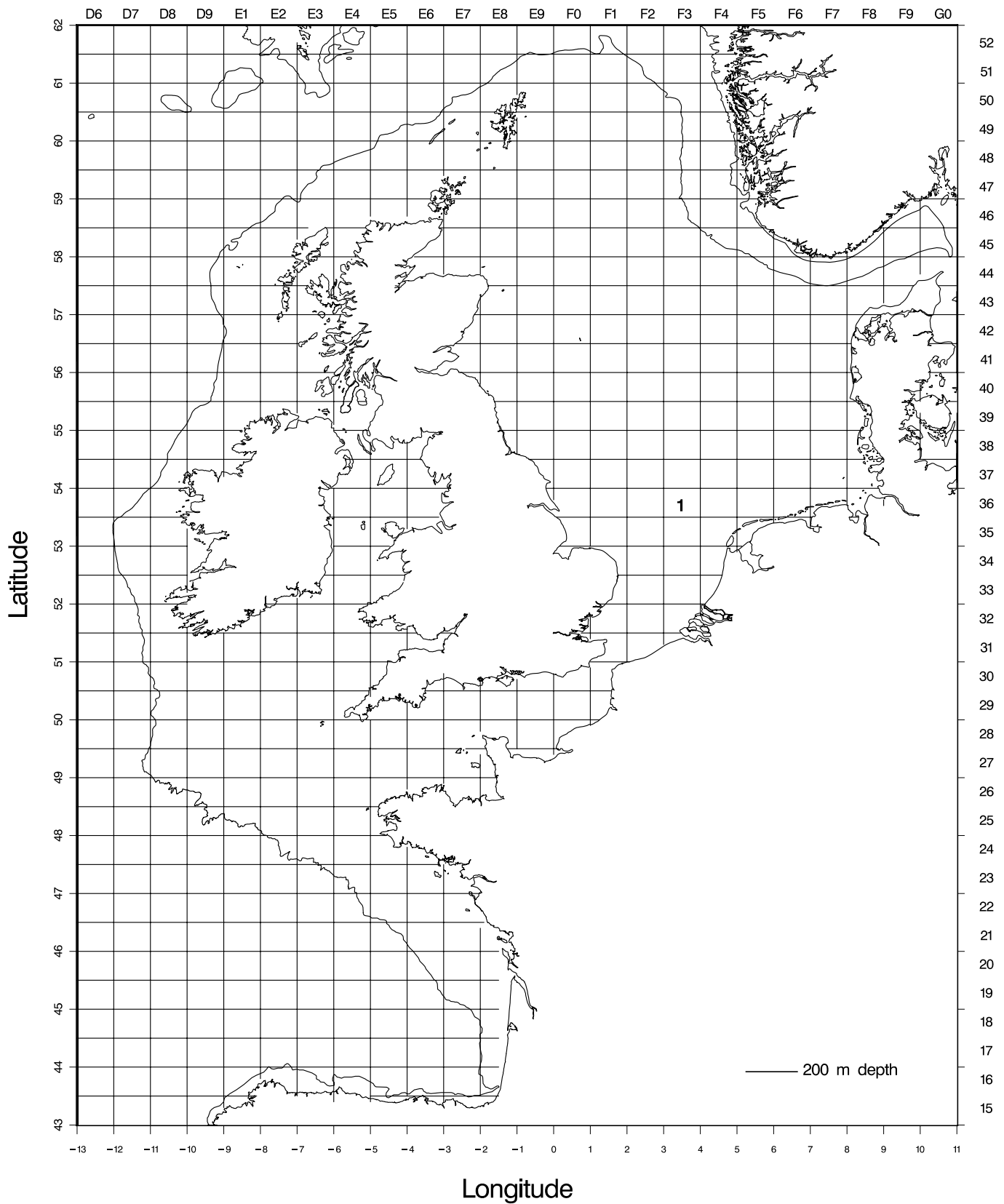


Figure 7a: Lemon sole quarter 1 2007

Number of age/length samples of commercial catches per ICES rectangle

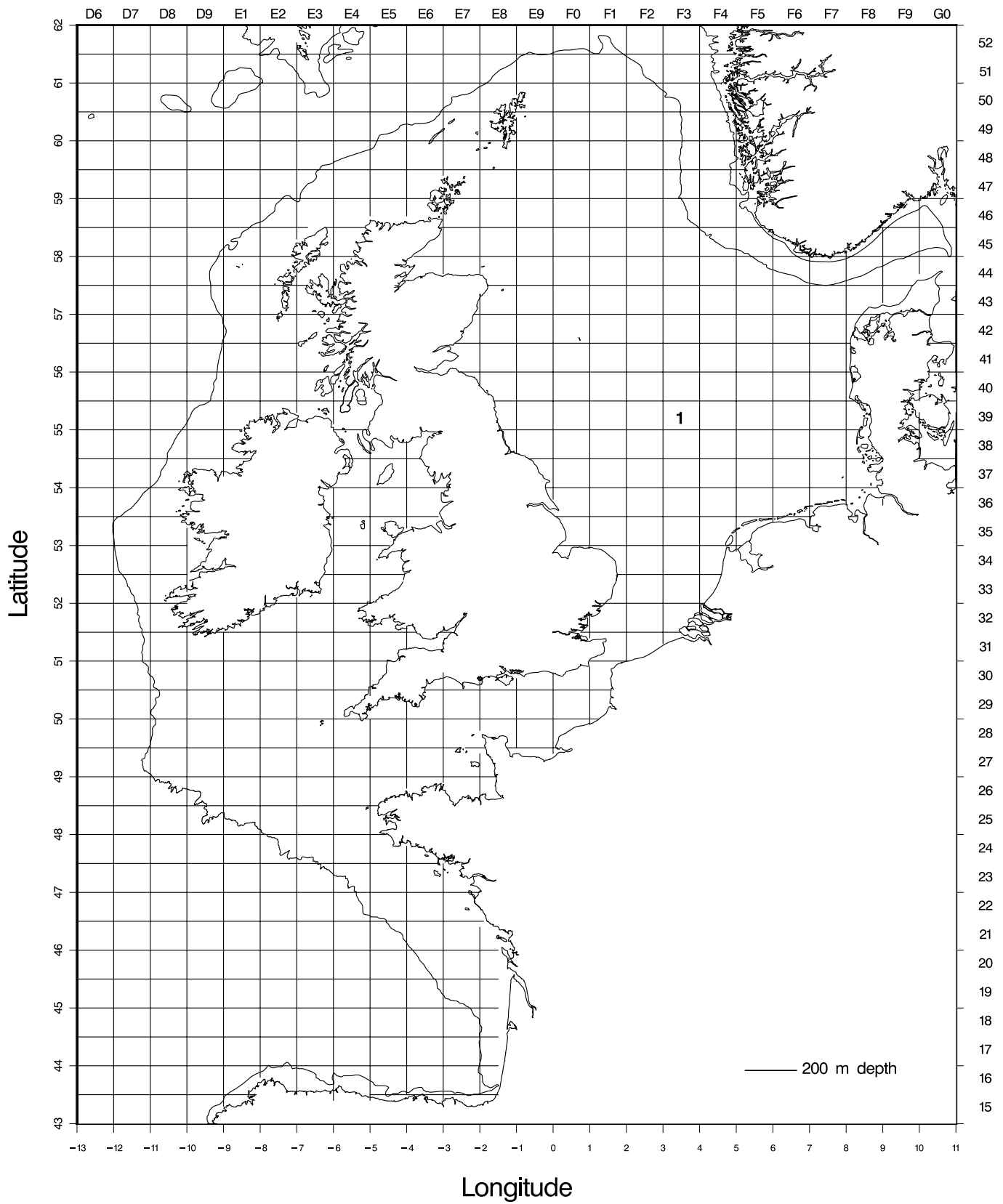


Figure 7b: Lemon sole quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

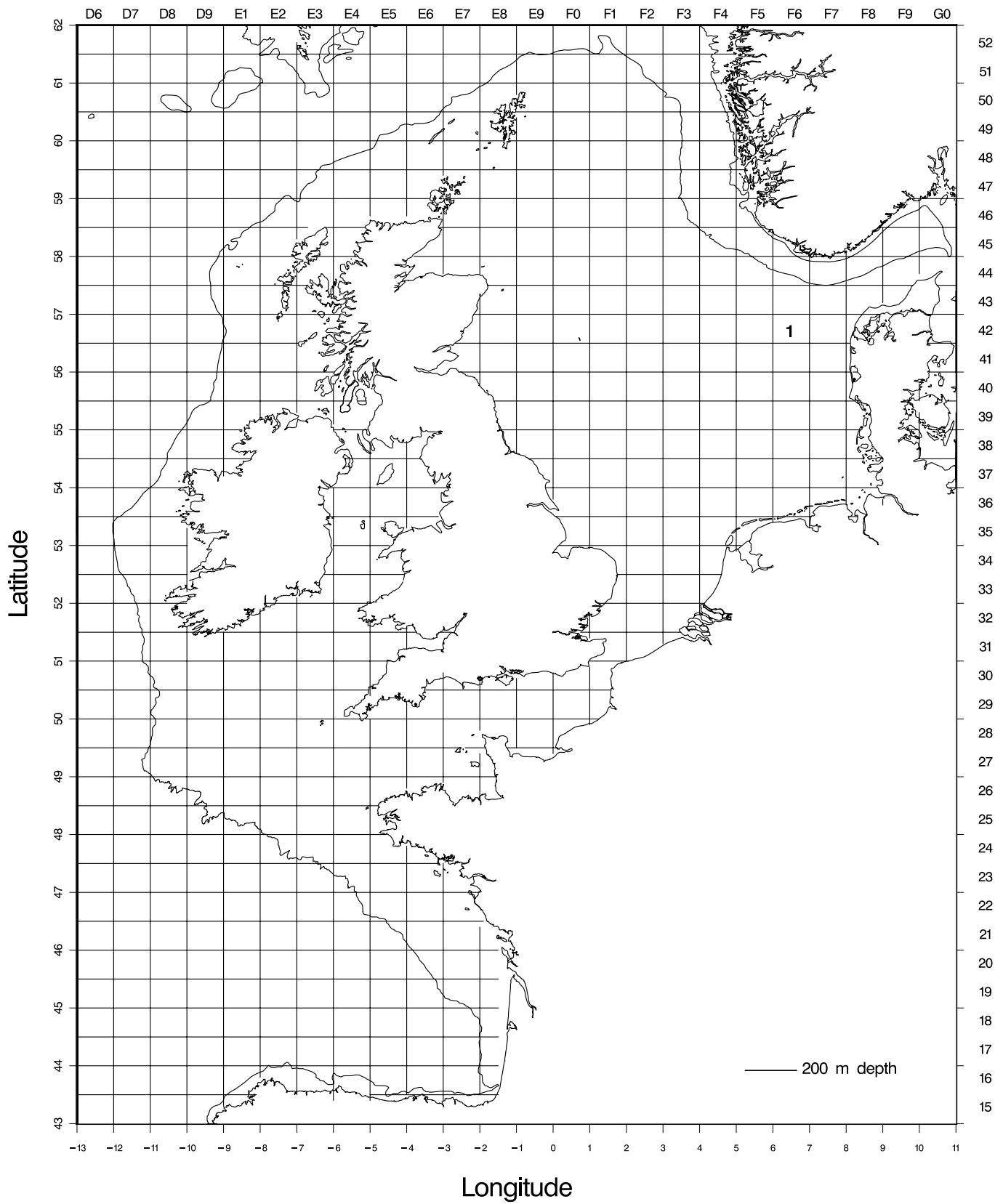


Figure 7c: Lemon sole quarter 3 2007

Number of age/length samples of commercial catches per ICES rectangle

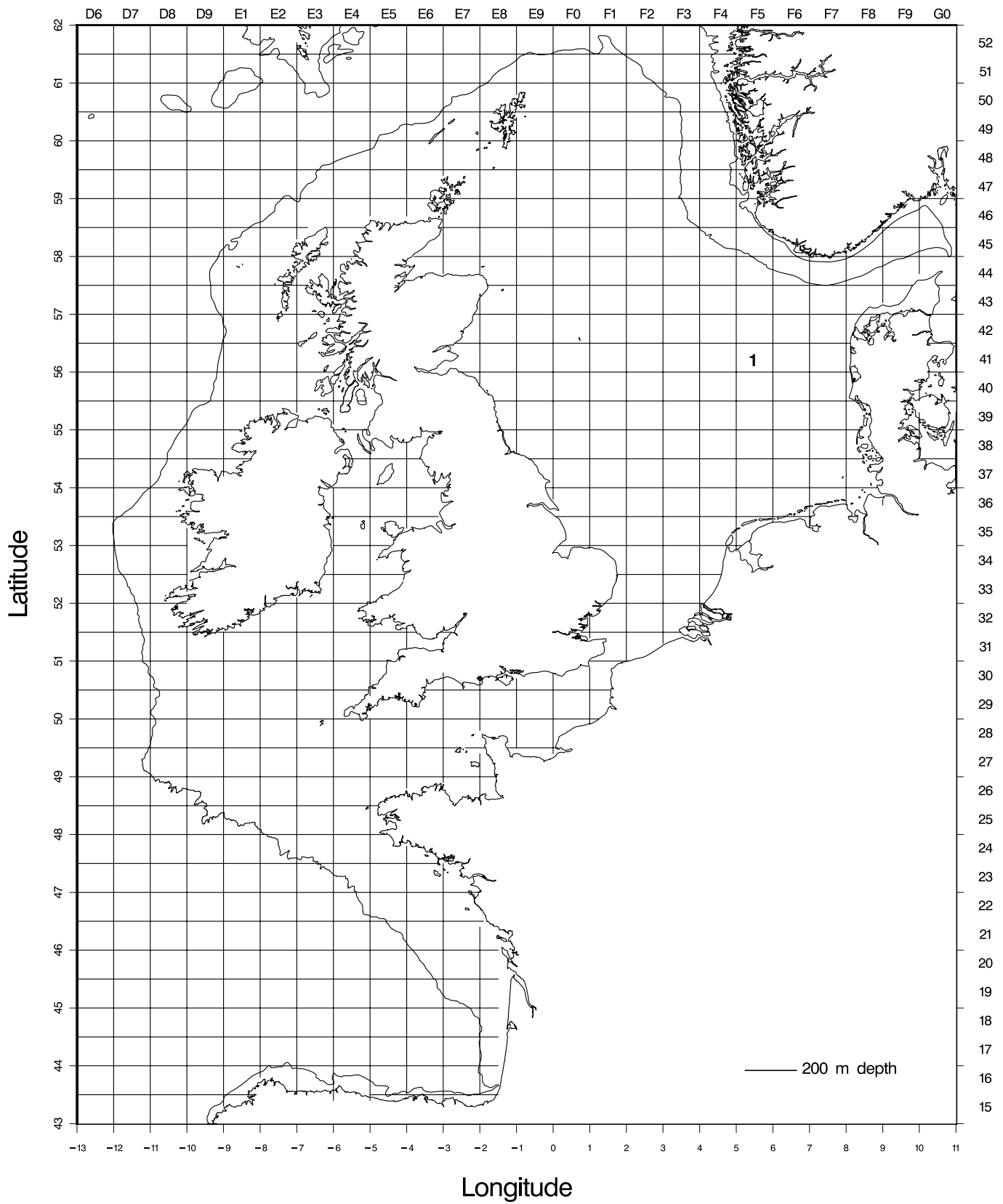


Figure 7d: Lemon sole quarter 4 2007

Number of age/length samples of commercial catches per ICES rectangle

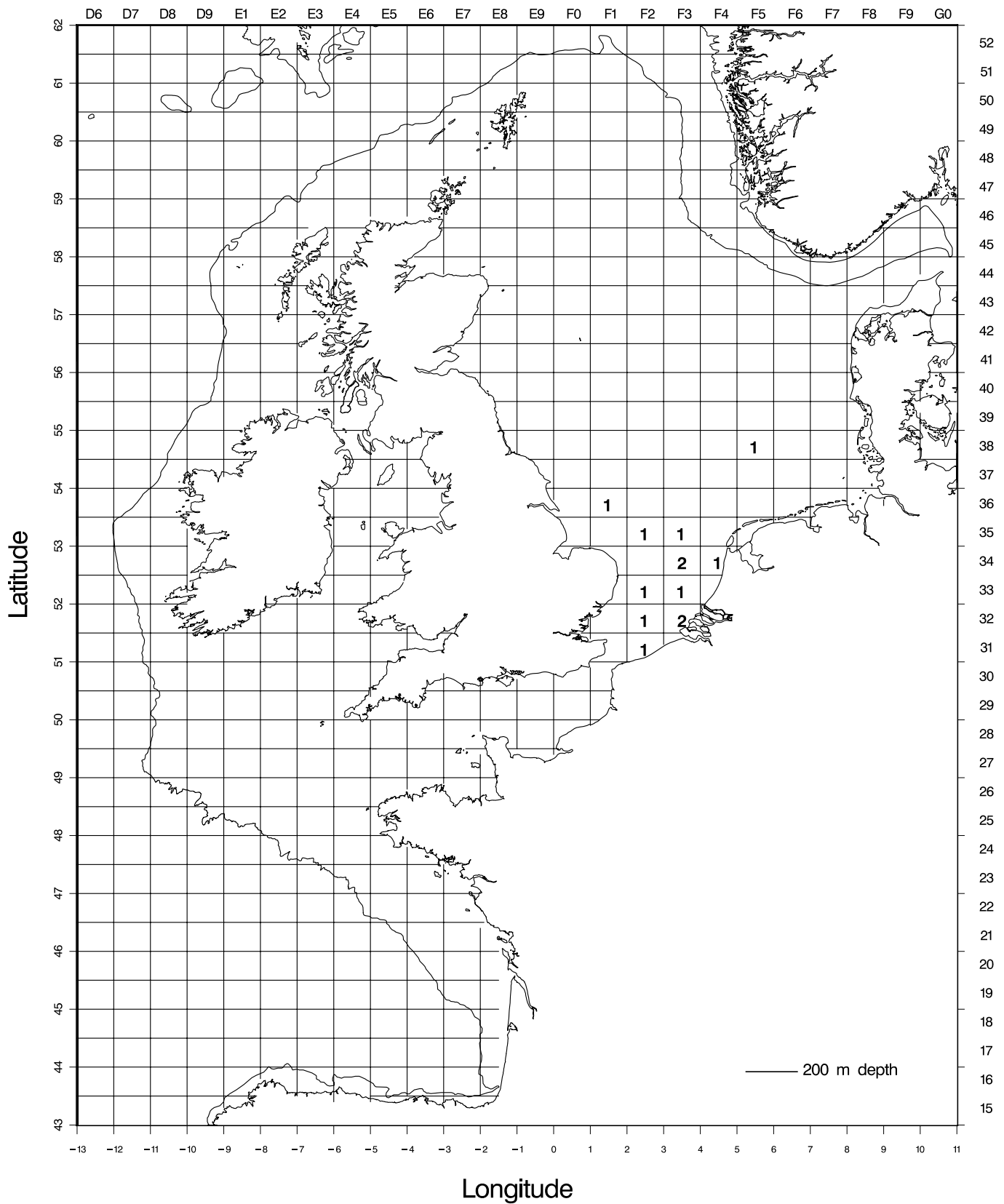


Figure 8a: Cod quarter 1 2007

Number of age samples of commercial catches per ICES rectangle

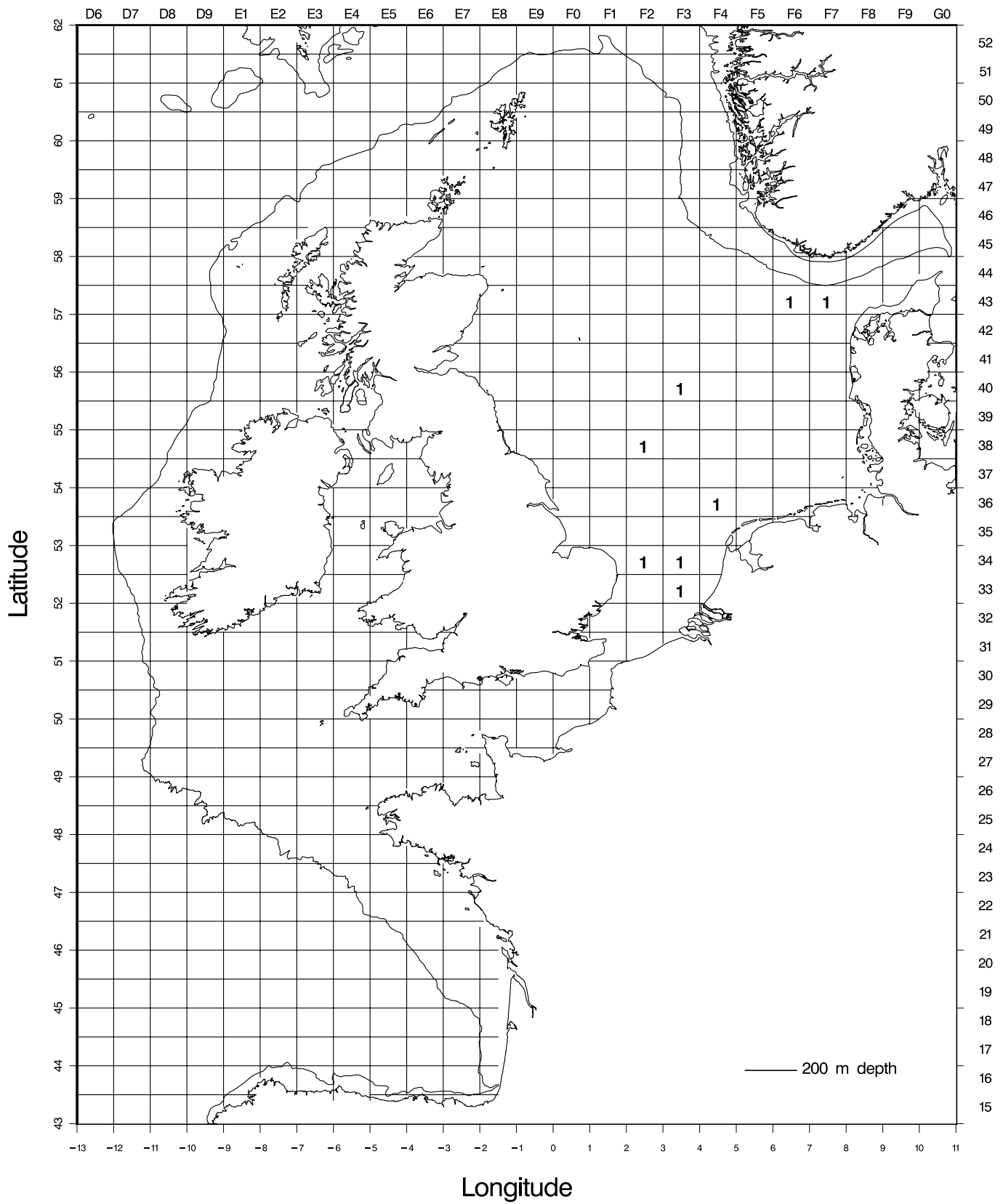


Figure 8b: Cod quarter 2 2007
 Number of age samples of commercial catches per ICES rectangle

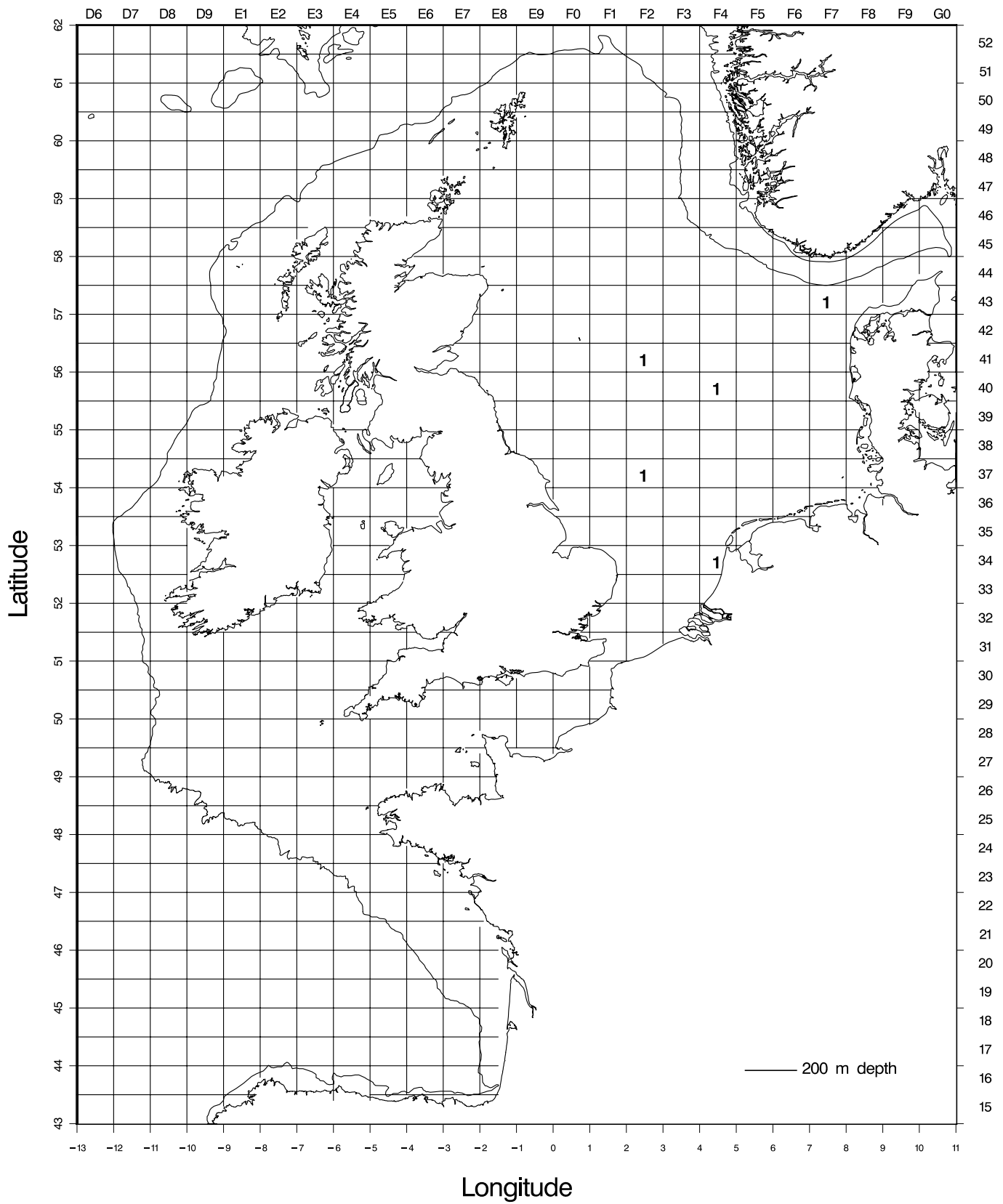


Figure 8c: Cod quarter 3 2007
 Number of age samples of commercial catches per ICES rectangle

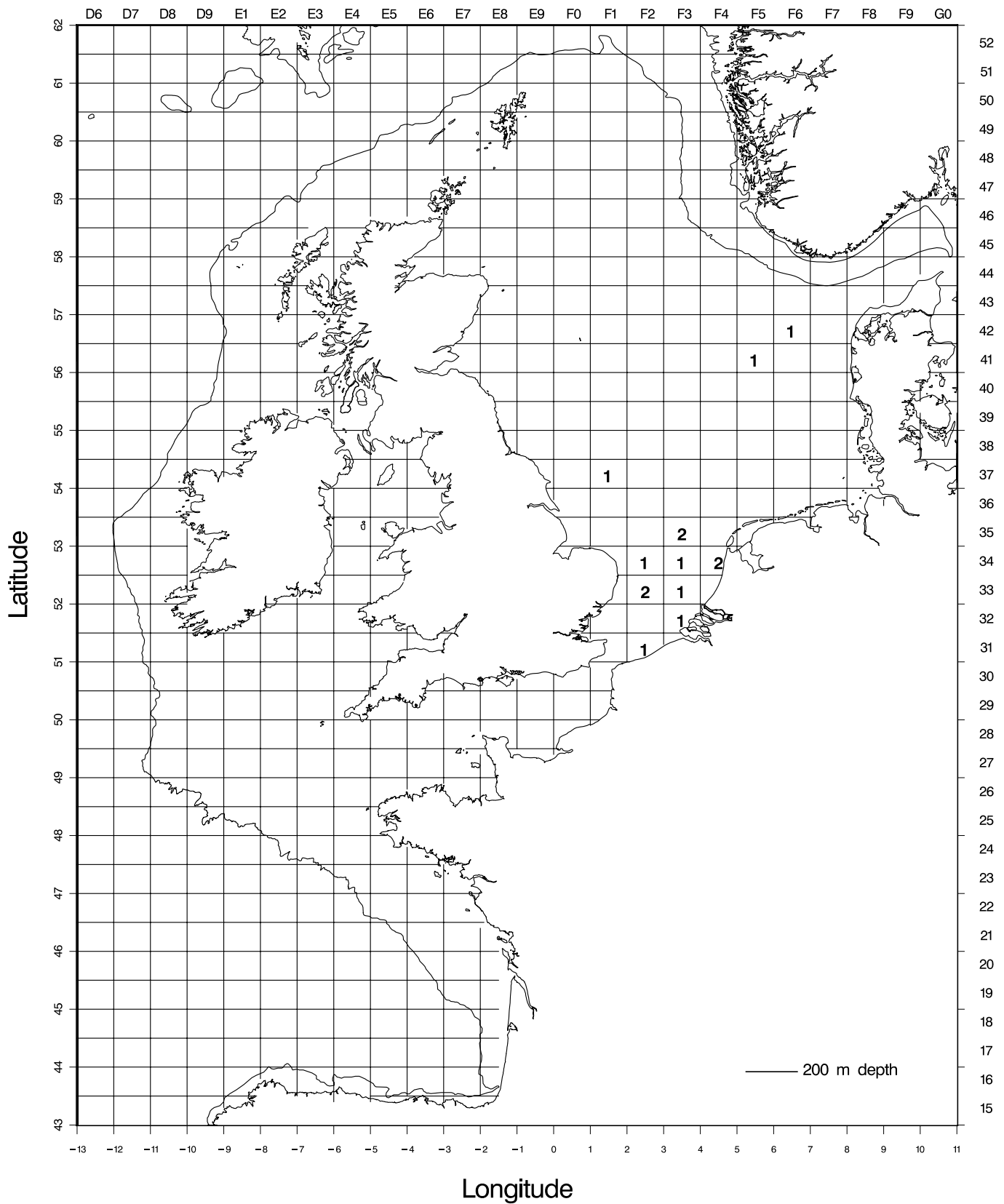


Figure 8d: Cod quarter 4 2007
 Number of age samples of commercial catches per ICES rectangle

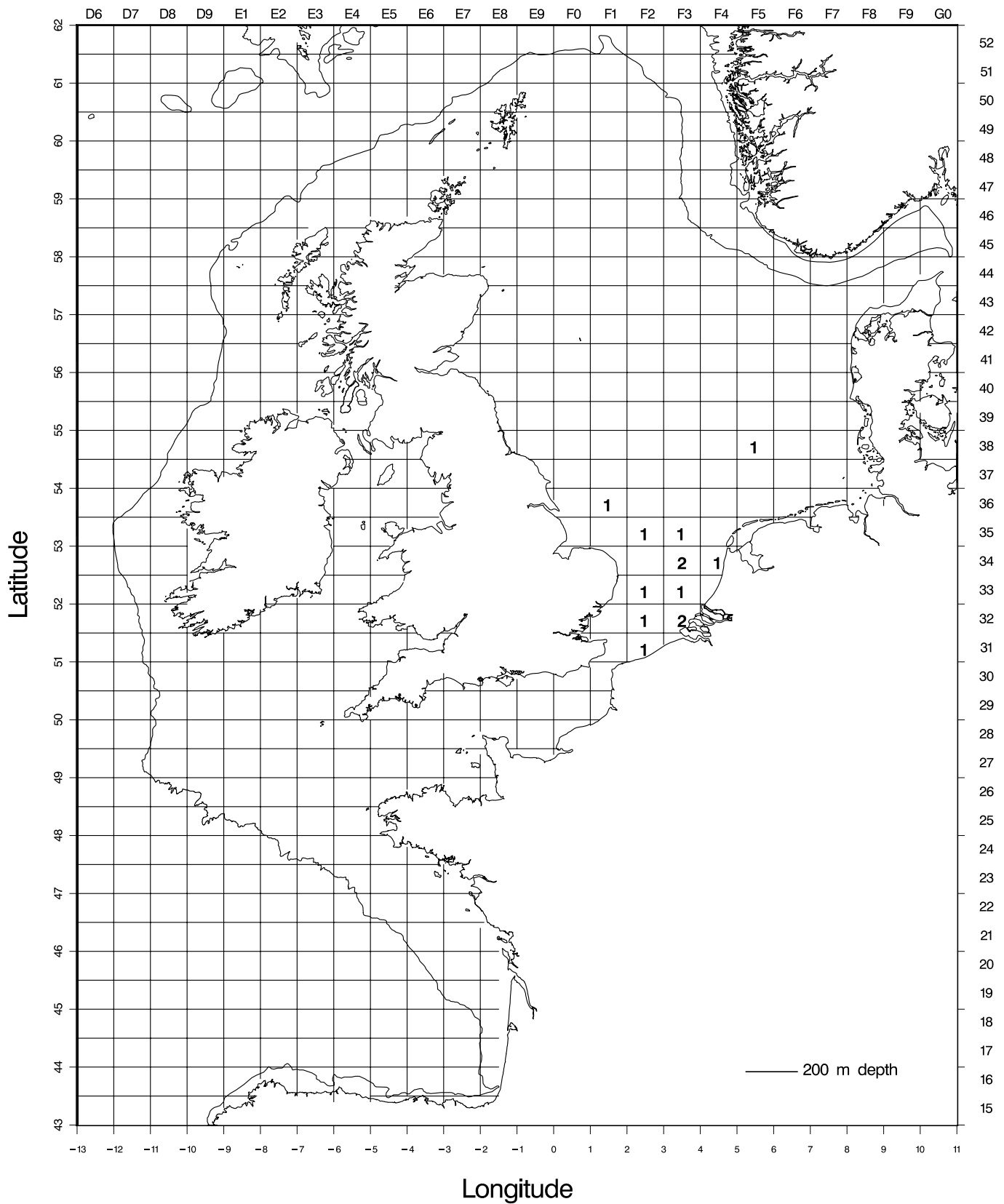


Figure 8e: Cod quarter 1 2007

Number of length samples of commercial catches per ICES rectangle

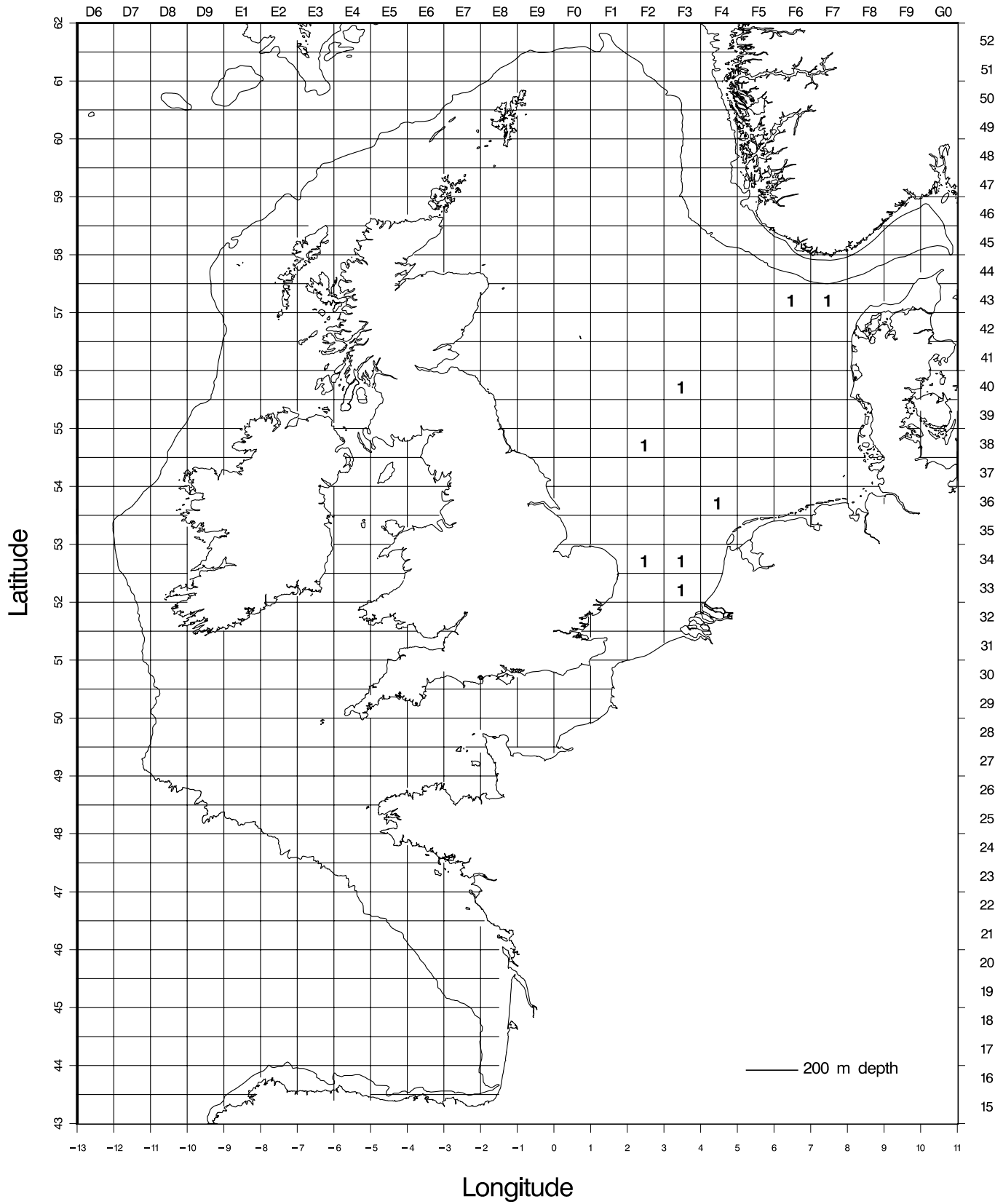


Figure 8f: Cod quarter 2 2007
 Number of length samples of commercial catches per ICES rectangle

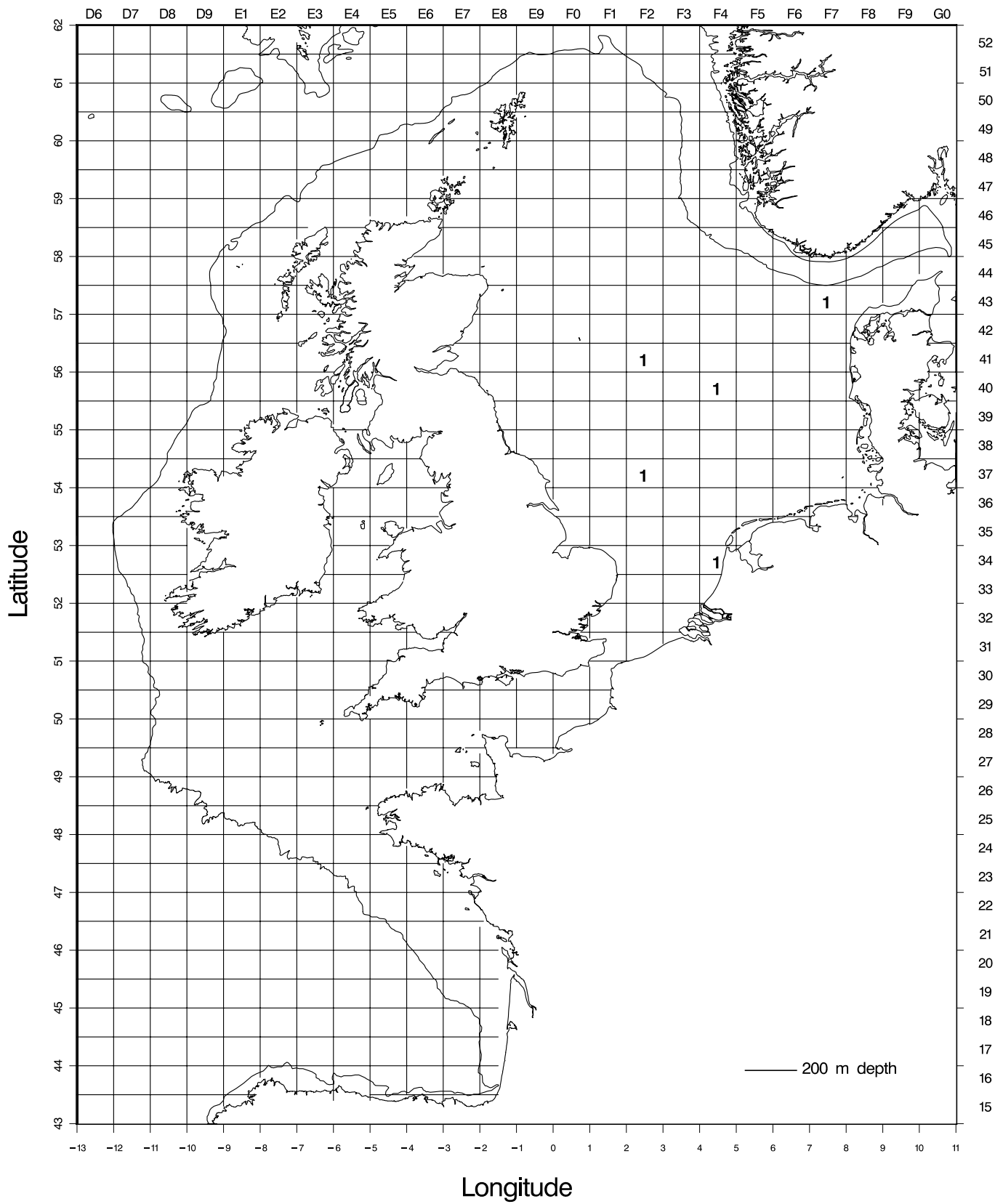


Figure 8g: Cod quarter 3 2007
 Number of length samples of commercial catches per ICES rectangle



Figure 8h: Cod quarter 4 2007
 Number of length samples of commercial catches per ICES rectangle

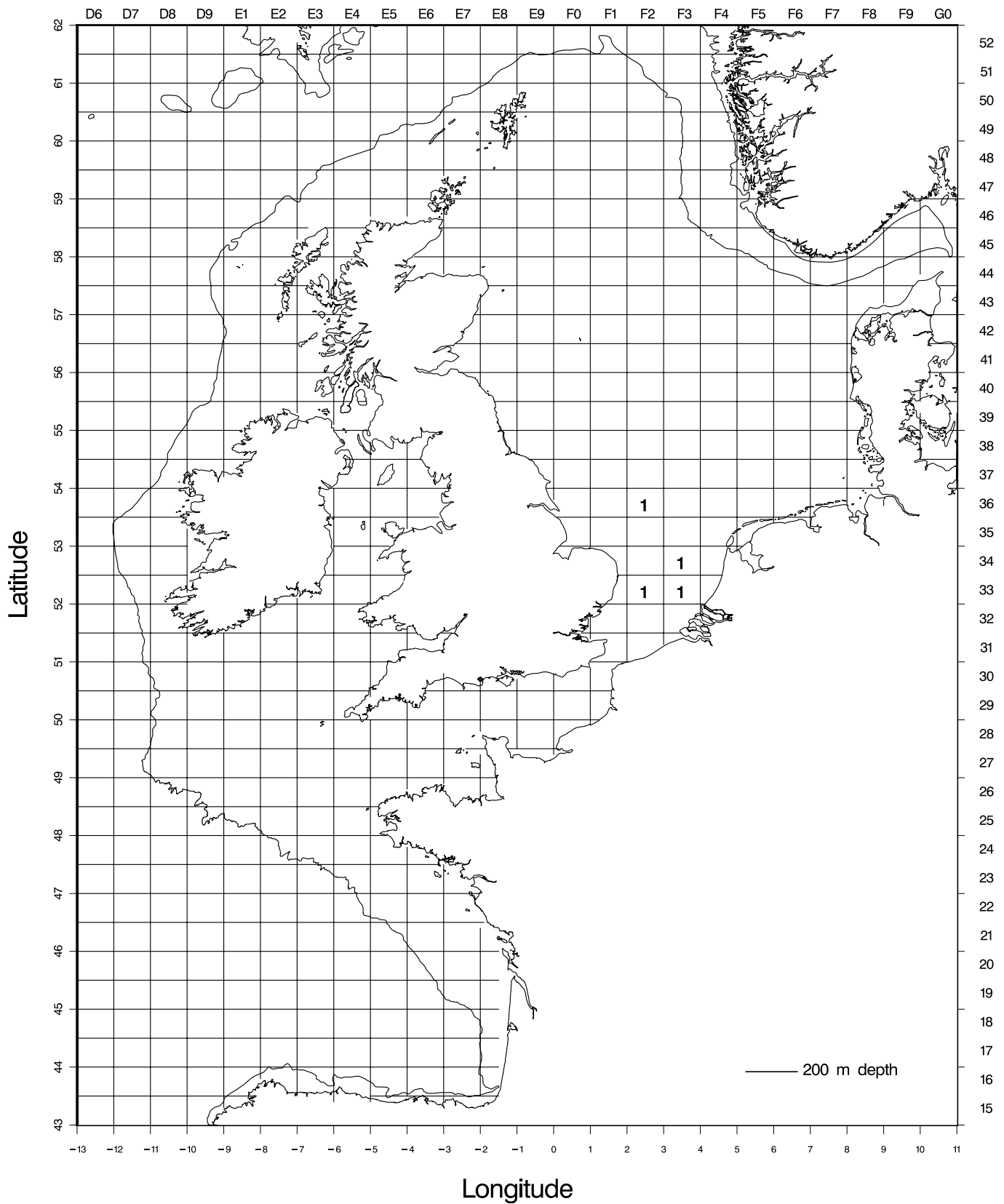


Figure 9a: Whiting quarter 1 2007
 Number of age samples of commercial catches per ICES rectangle

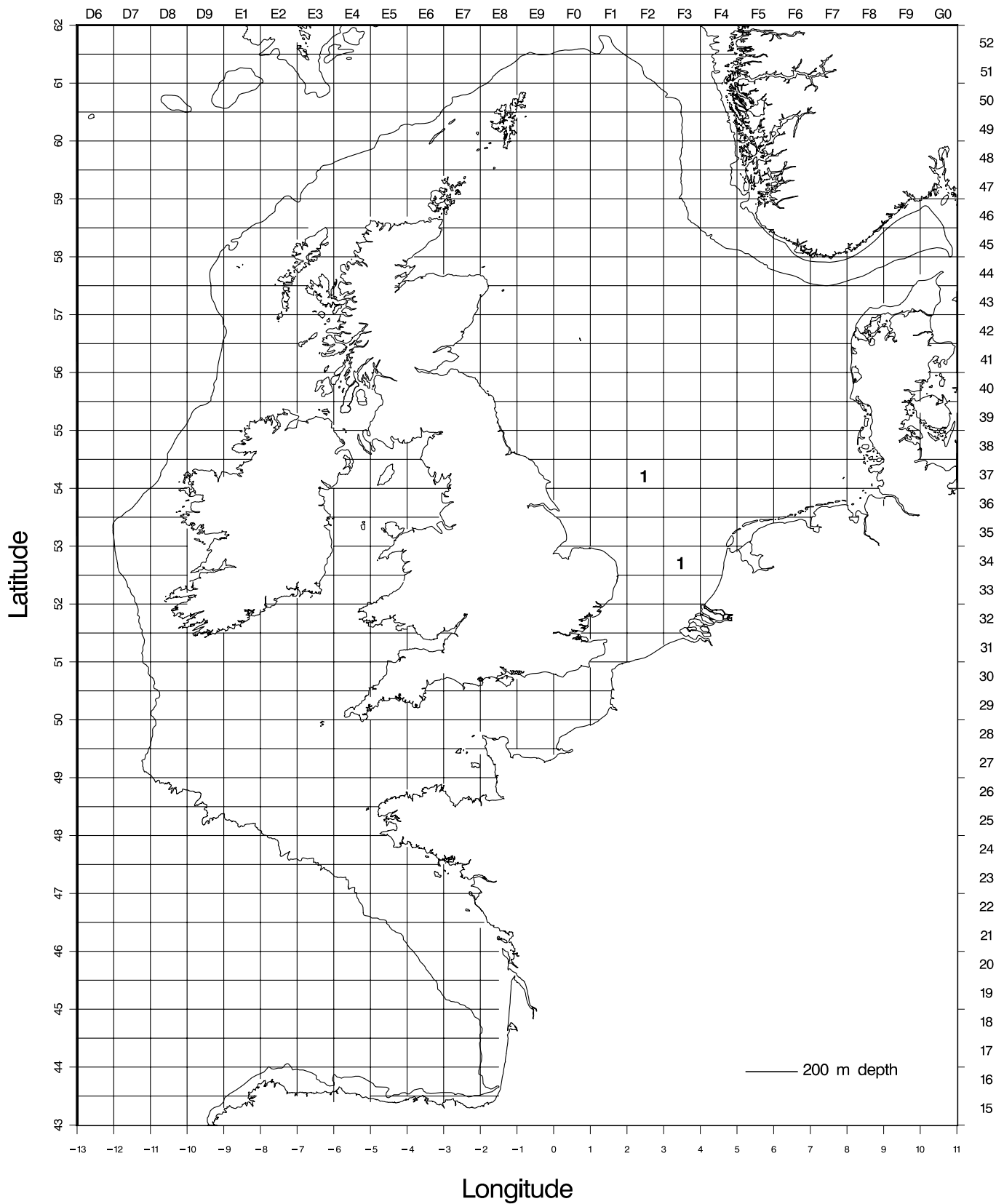


Figure 9b: Whiting quarter 2 2007
 Number of age samples of commercial catches per ICES rectangle

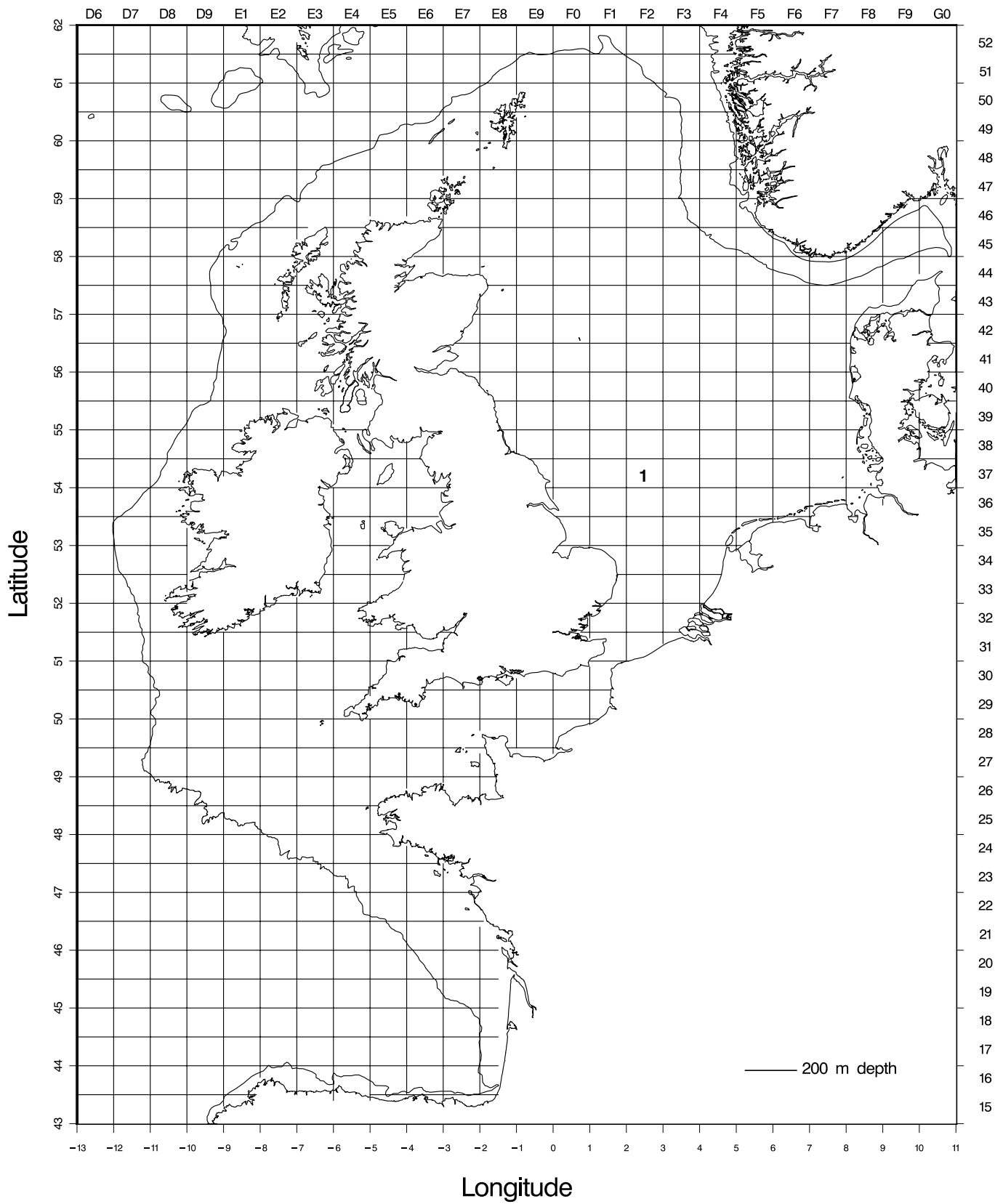


Figure 9c: Whiting quarter 3 2007
 Number of age samples of commercial catches per ICES rectangle

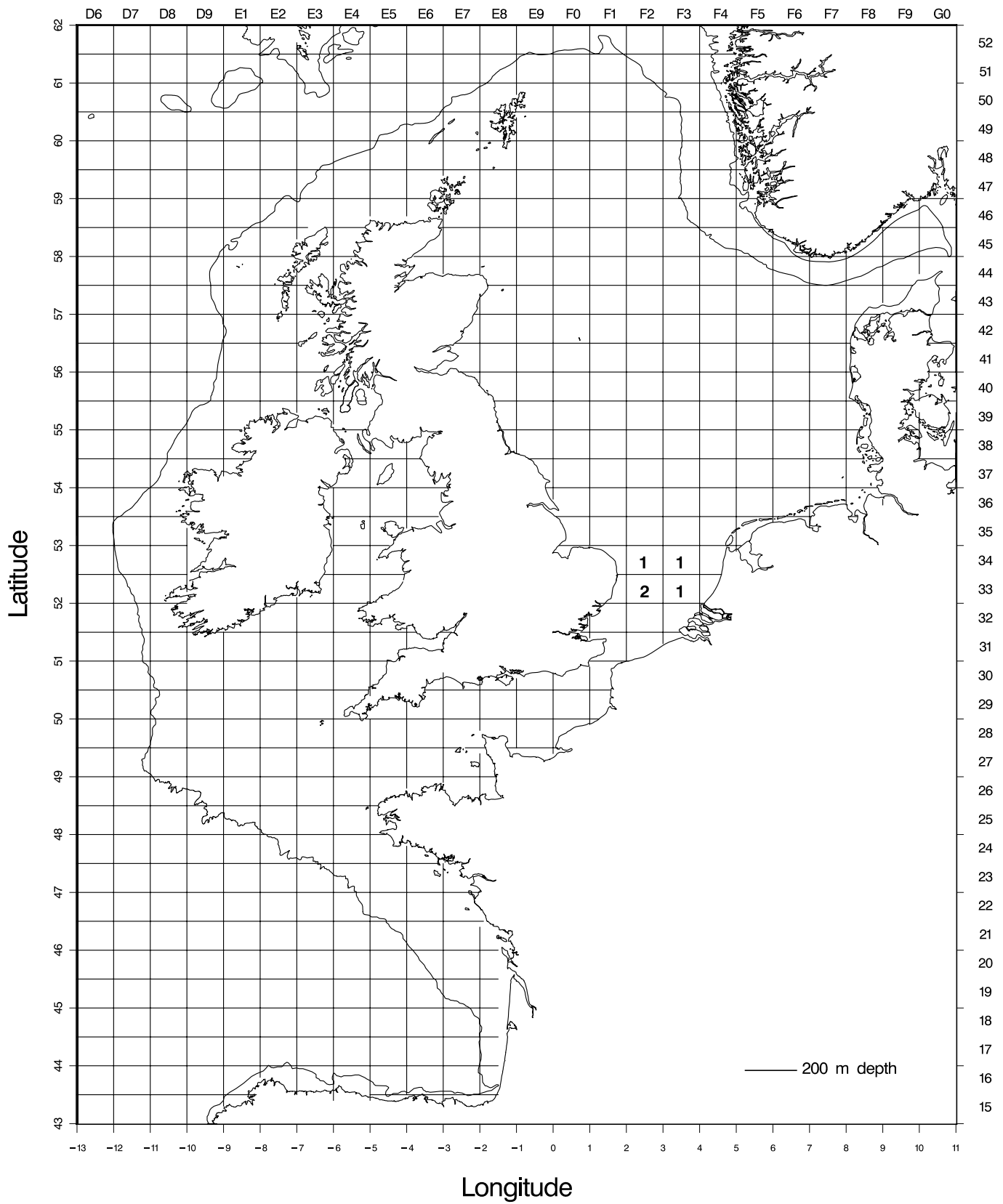


Figure 9d: Whiting quarter 4 2007
 Number of age samples of commercial catches per ICES rectangle

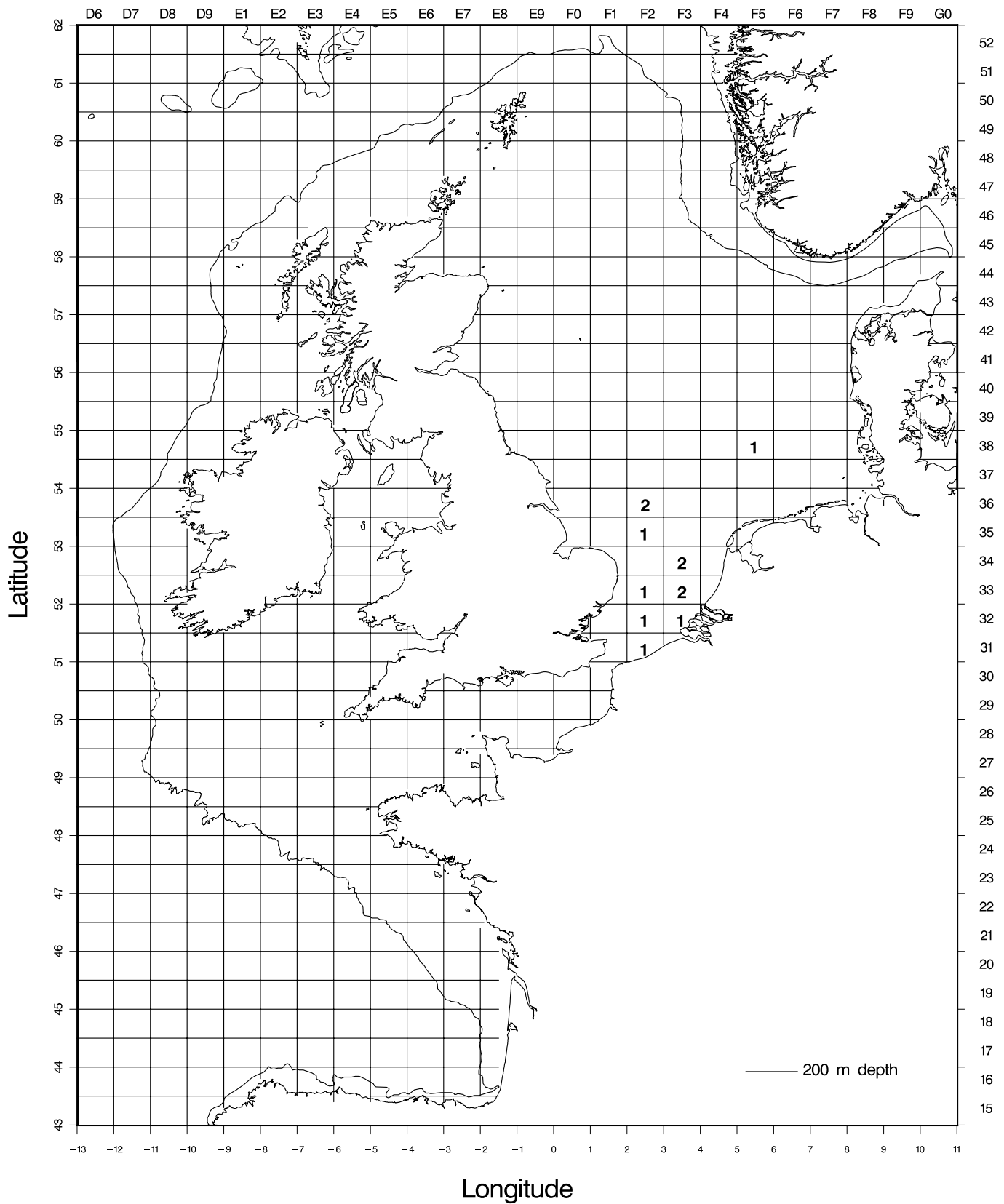


Figure 9e: Whiting quarter 1 2007
 Number of length samples of commercial catches per ICES rectangle

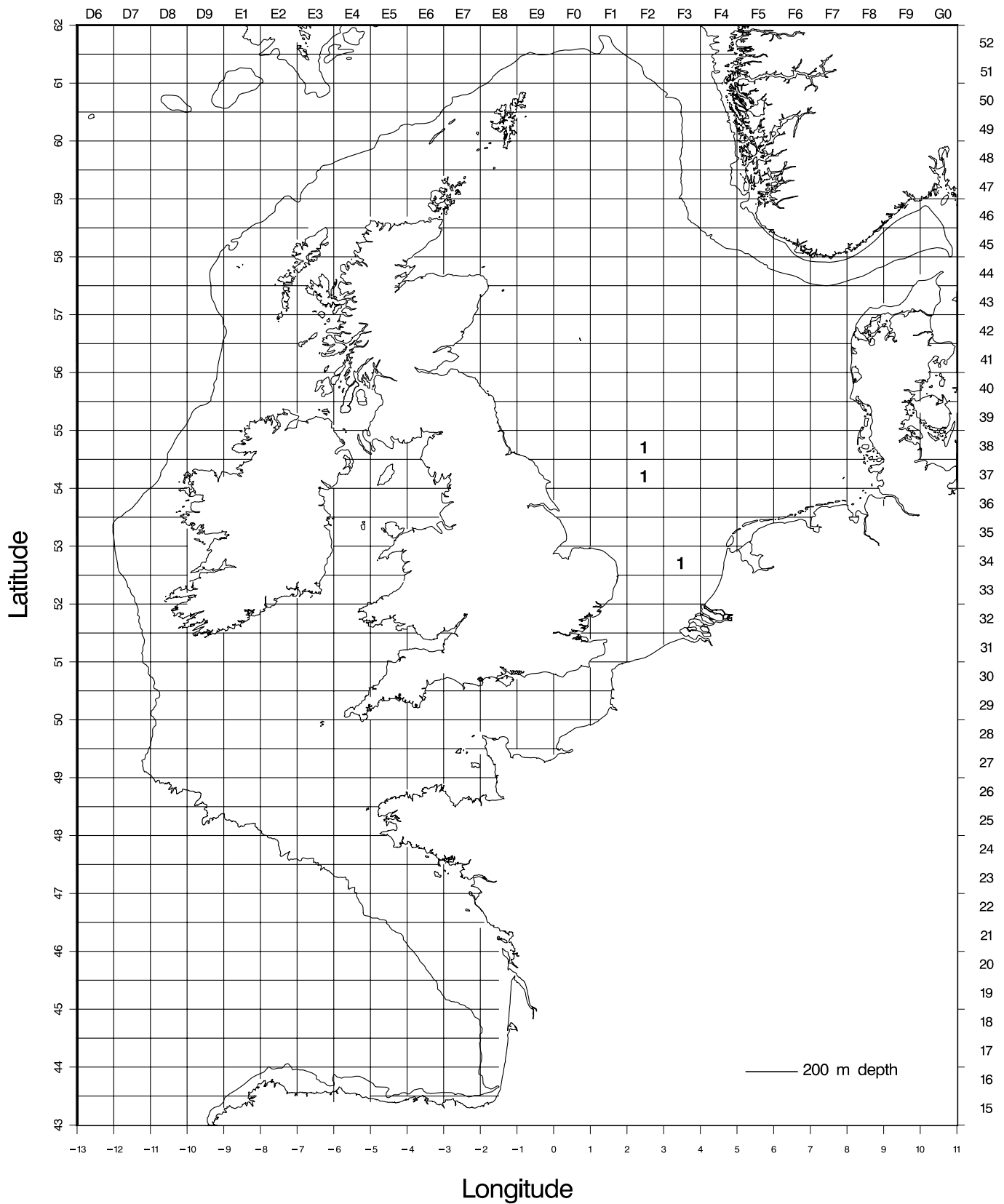


Figure 9f: Whiting quarter 2 2007
 Number of length samples of commercial catches per ICES rectangle

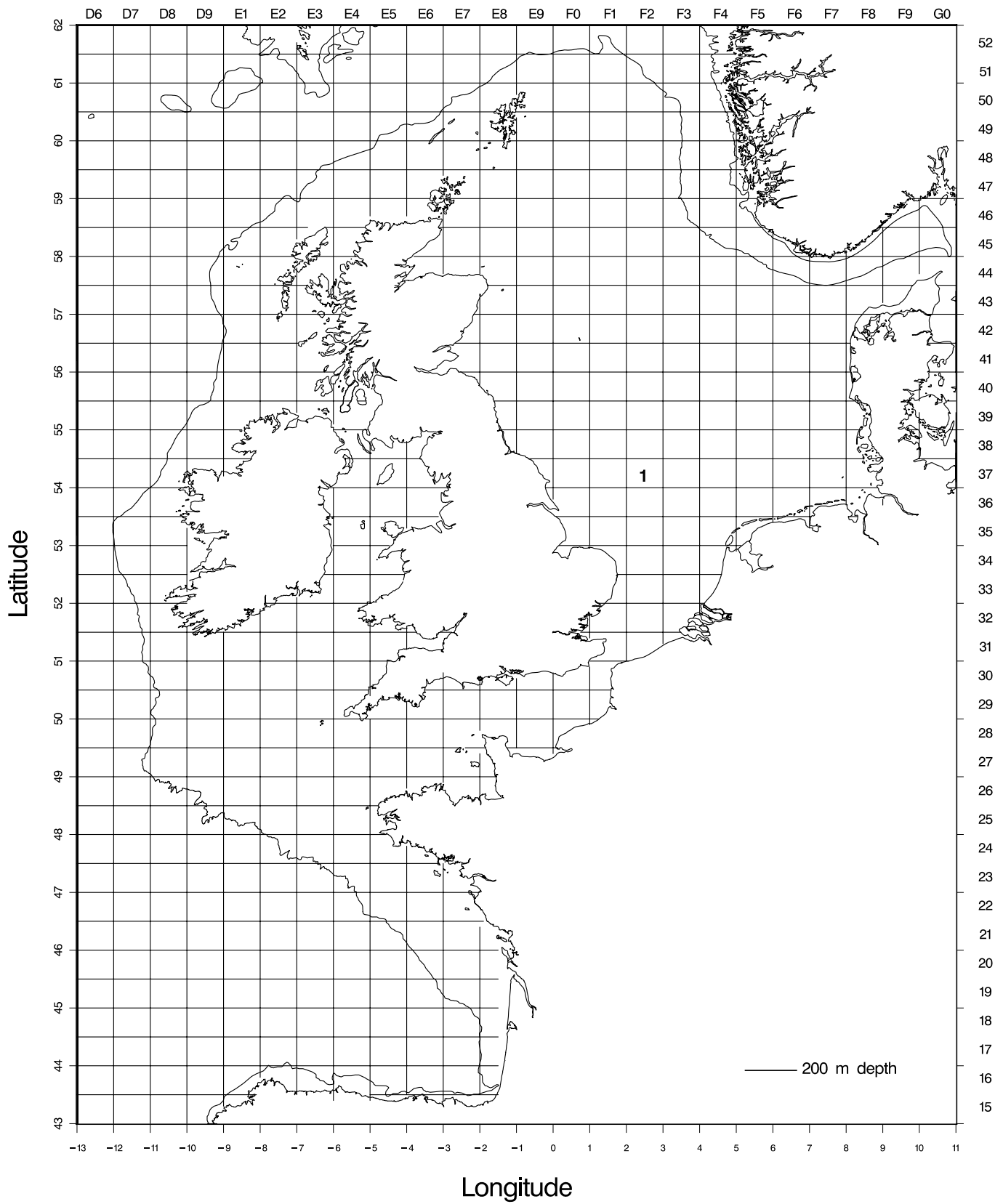


Figure 9g: Whiting quarter 3 2007
 Number of length samples of commercial catches per ICES rectangle

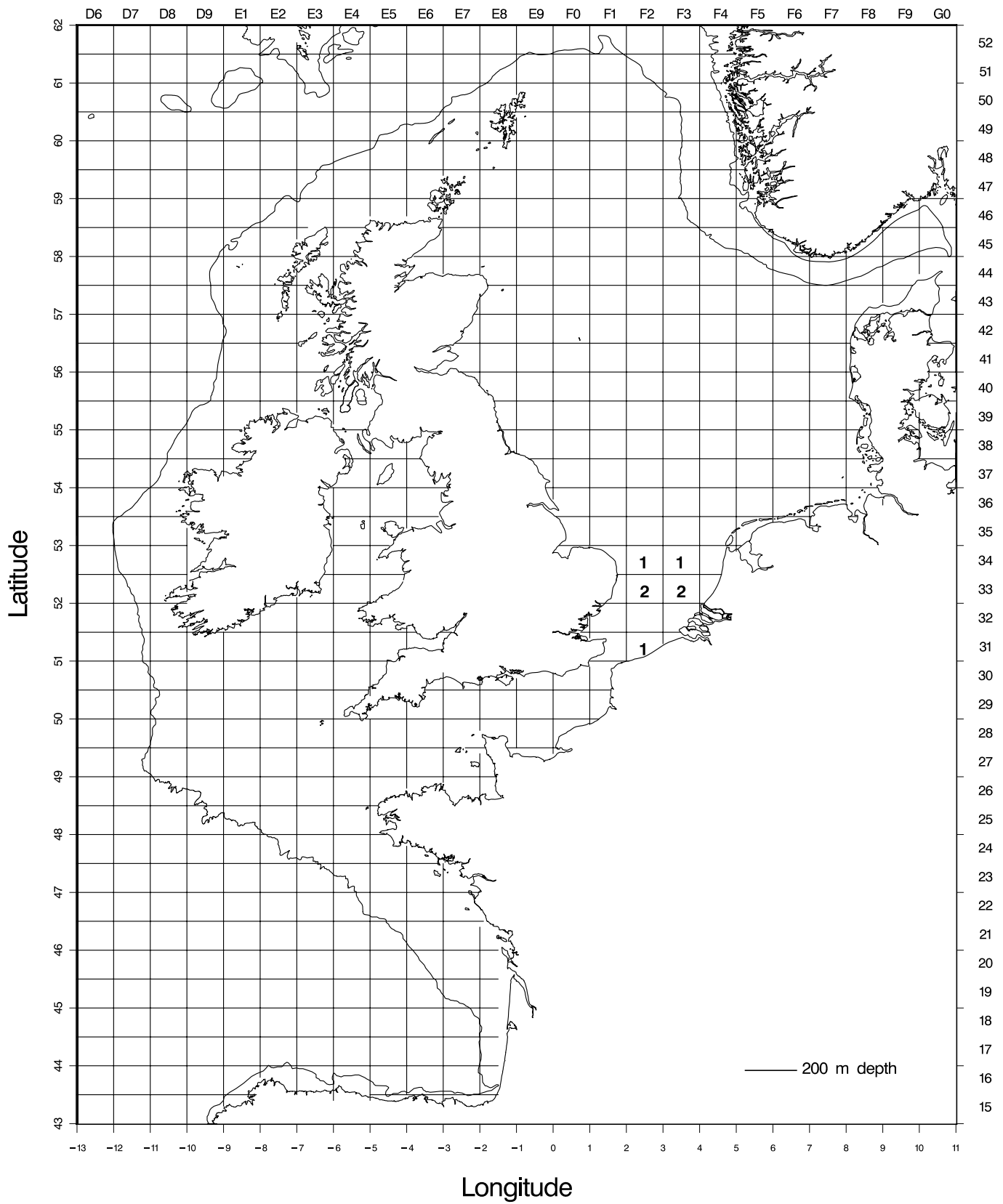


Figure 9h: Whiting quarter 4 2007
 Number of length samples of commercial catches per ICES rectangle

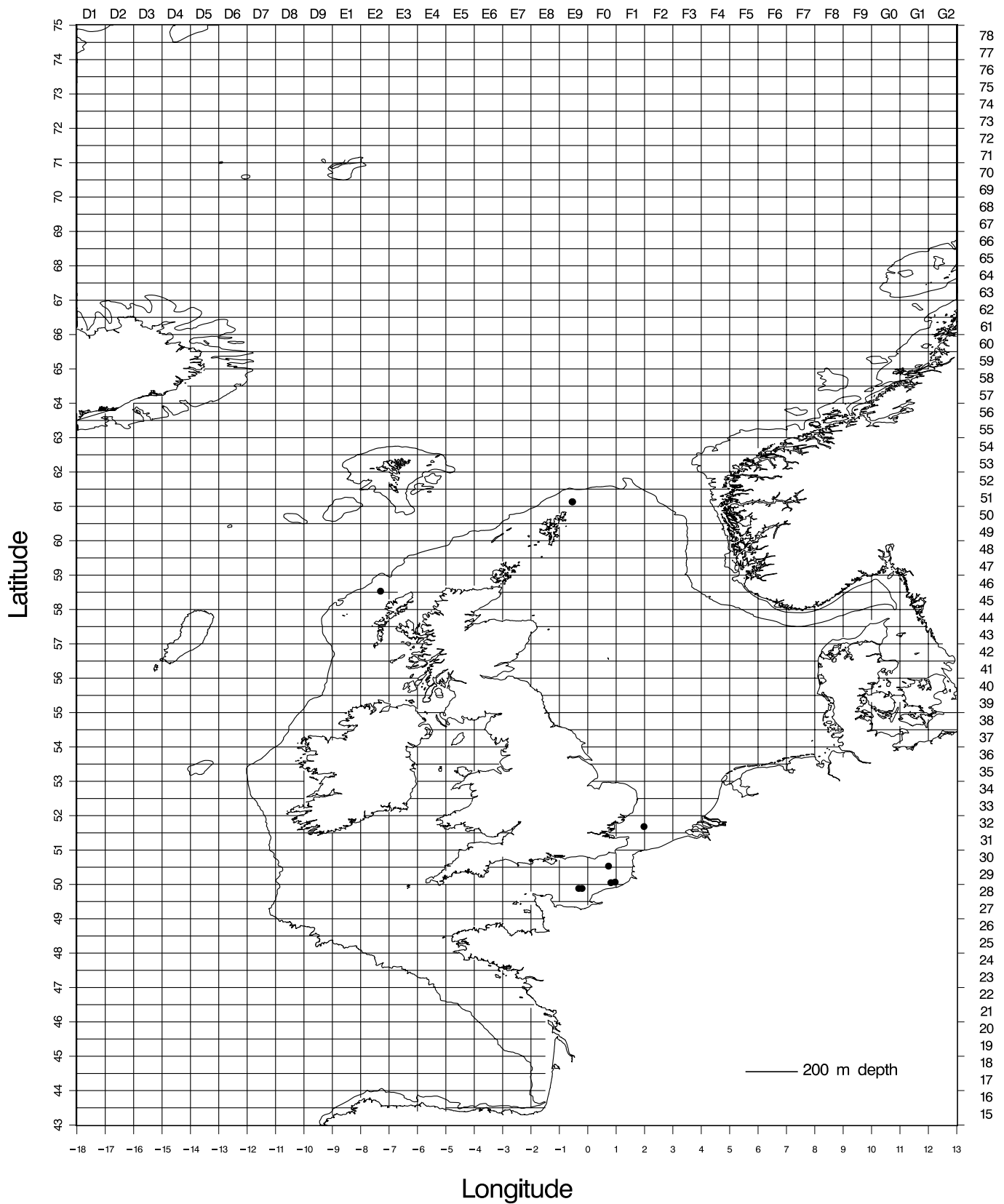


Figure 10a: Herring quarter 1 2007
 Positions of age/length samples of commercial catches

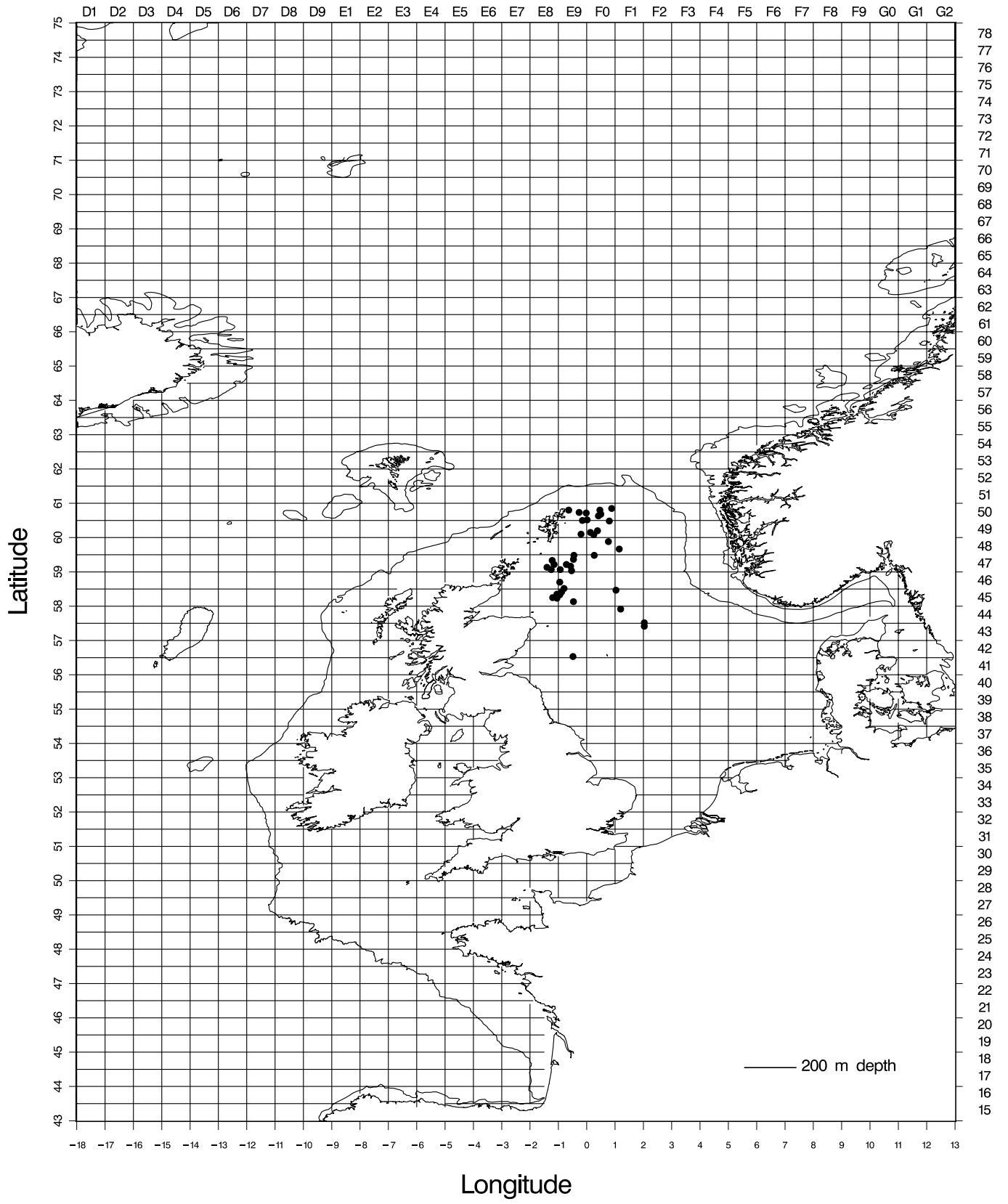


Figure 10b: Herring quarter 2 2007
 Positions of age/length samples of commercial catches

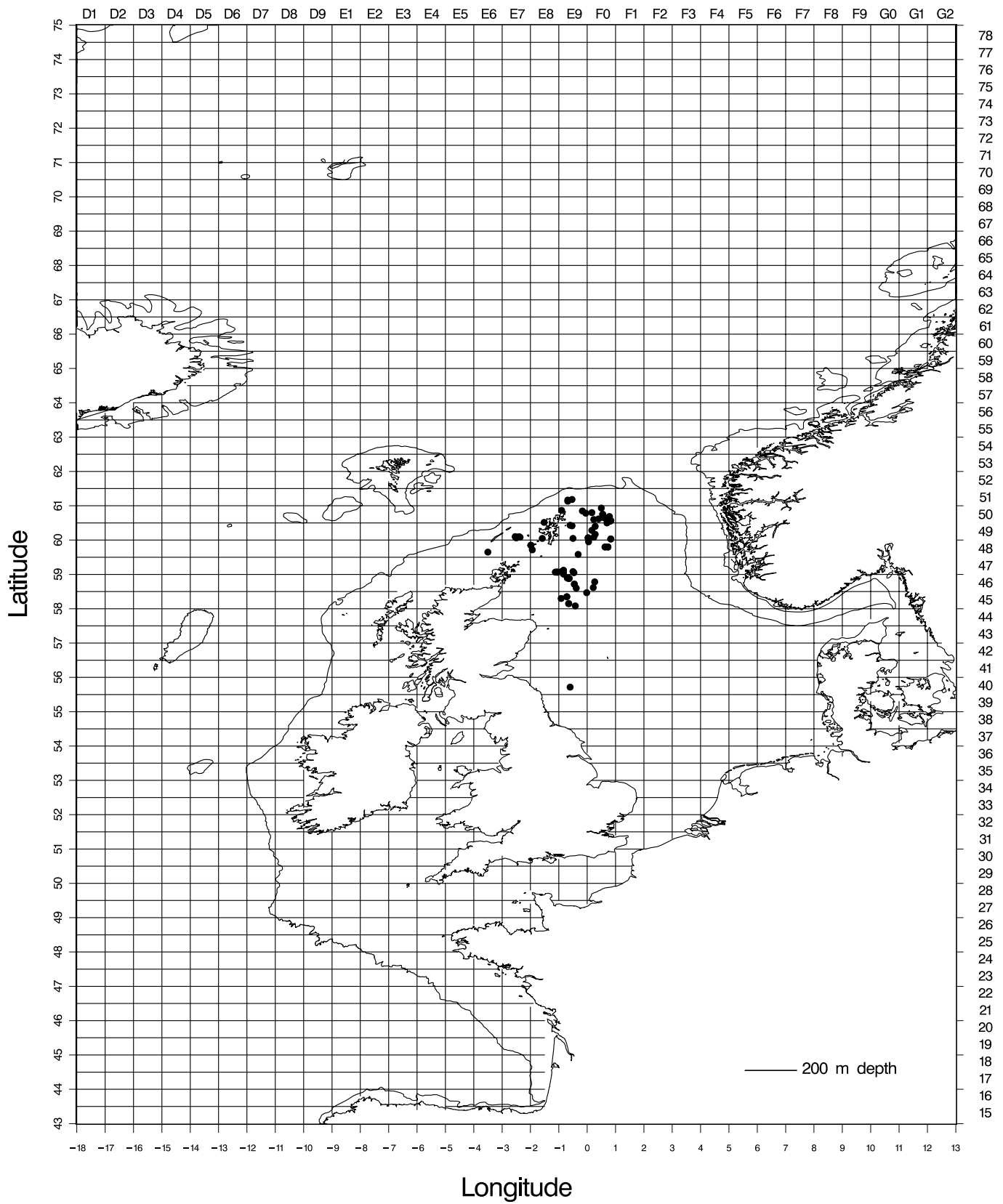


Figure 10c: Herring quarter 3 2007
 Positions of age/length samples of commercial catches

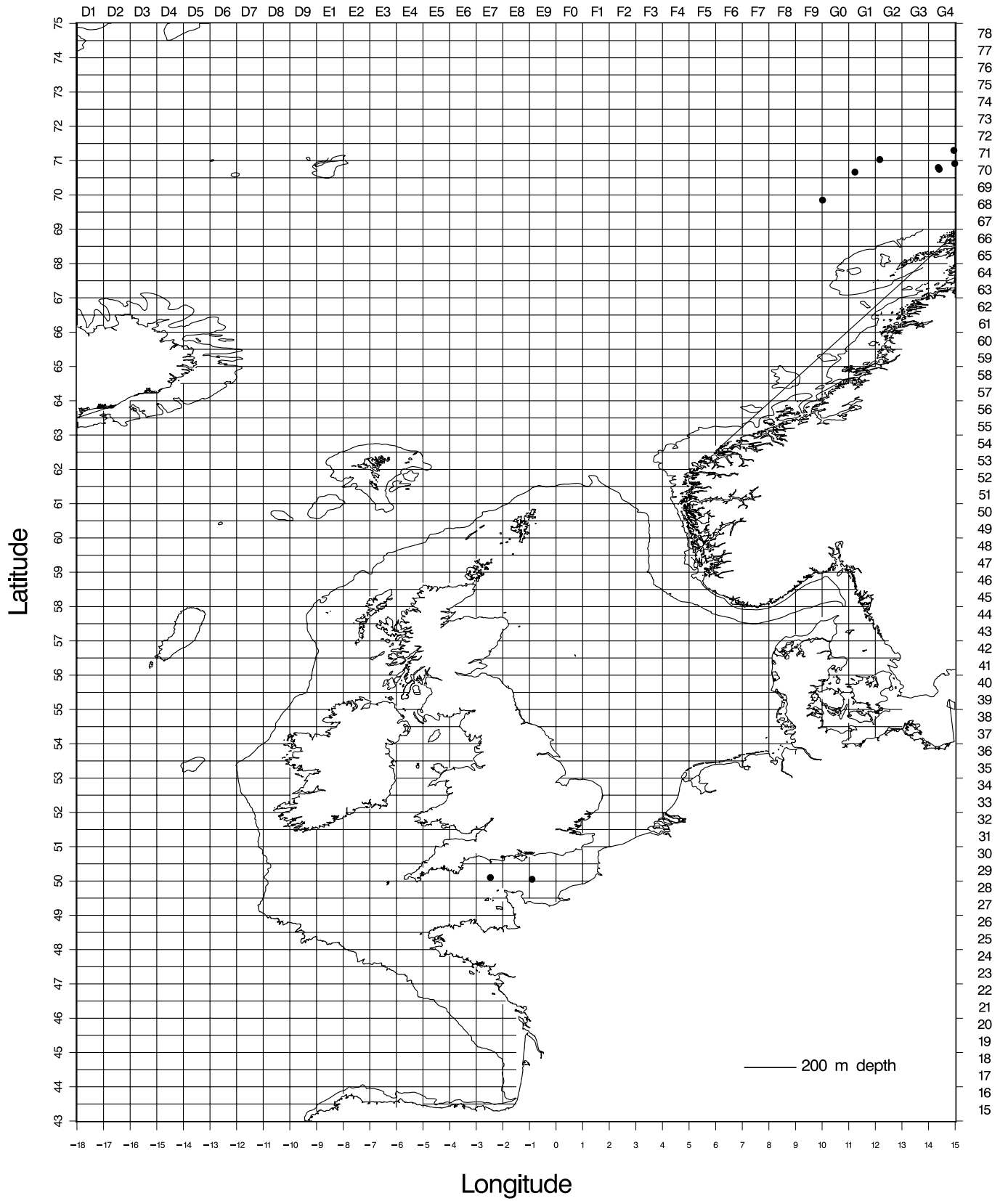


Figure 10d: Herring quarter 4 2007
 Positions of age/length samples of commercial catches

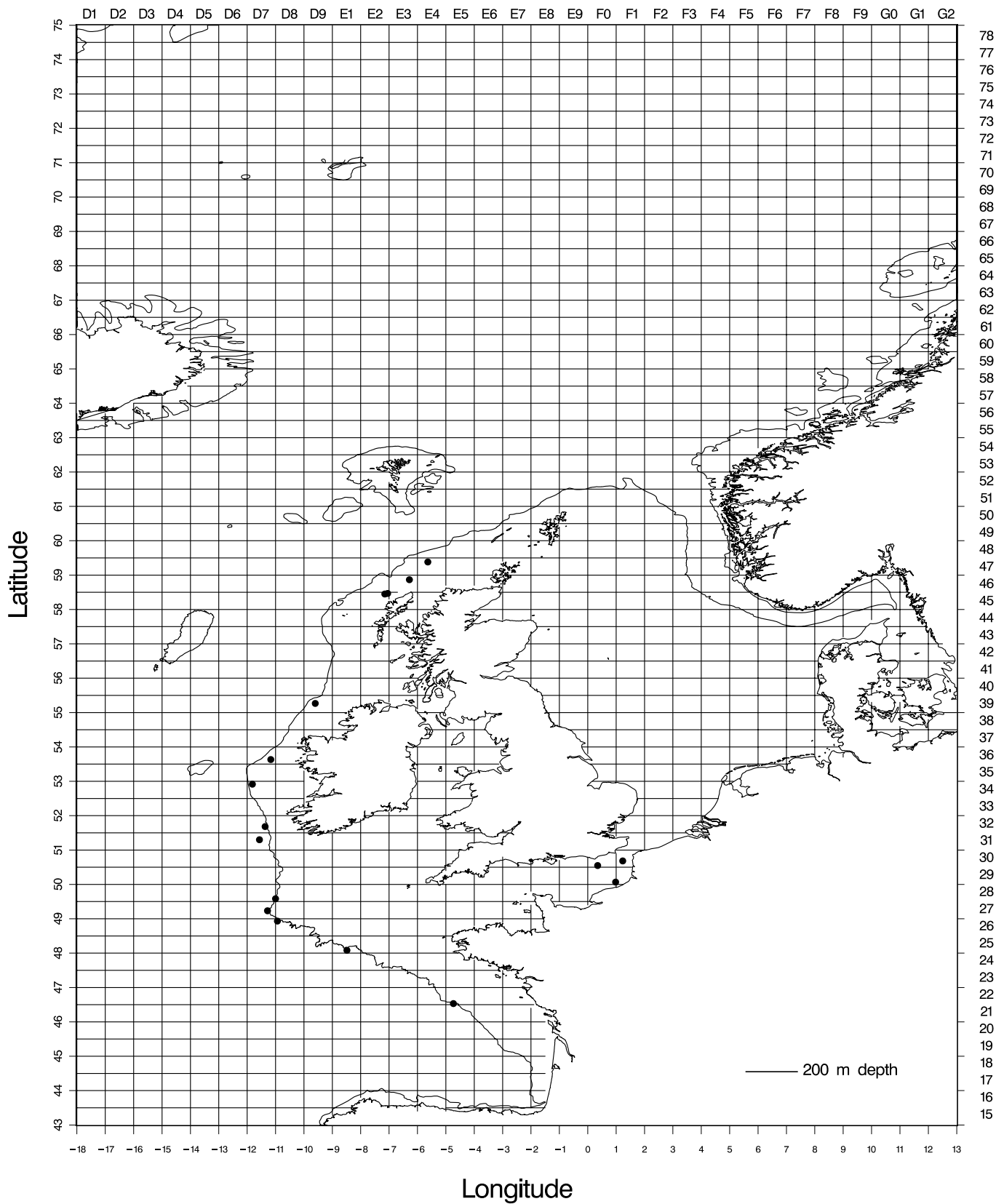


Figure 11a: Mackerel quarter 1 2007
 Positions of age/length samples of commercial catches

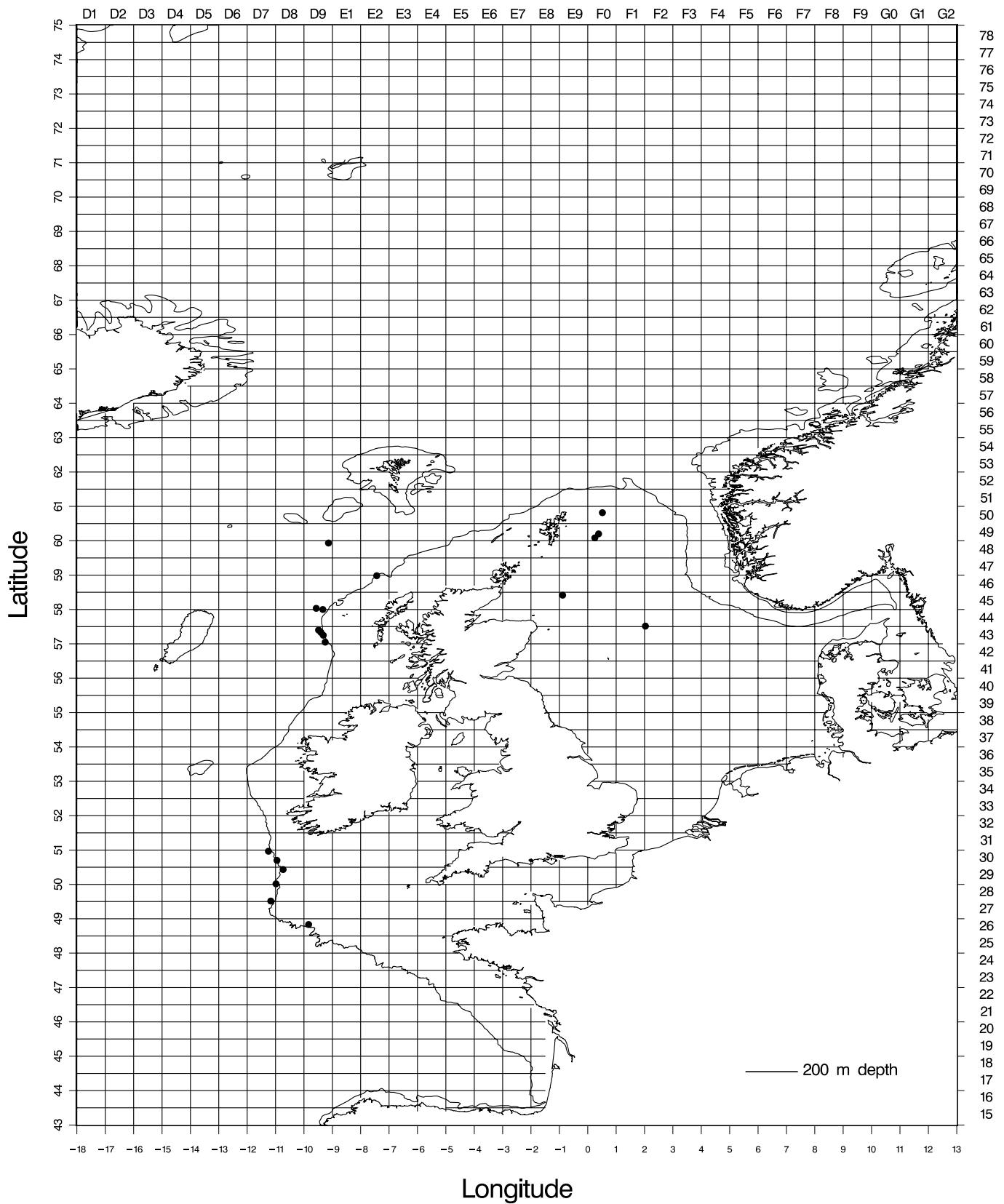


Figure 11b: Mackerel quarter 2 2007
Positions of age/length samples of commercial catches

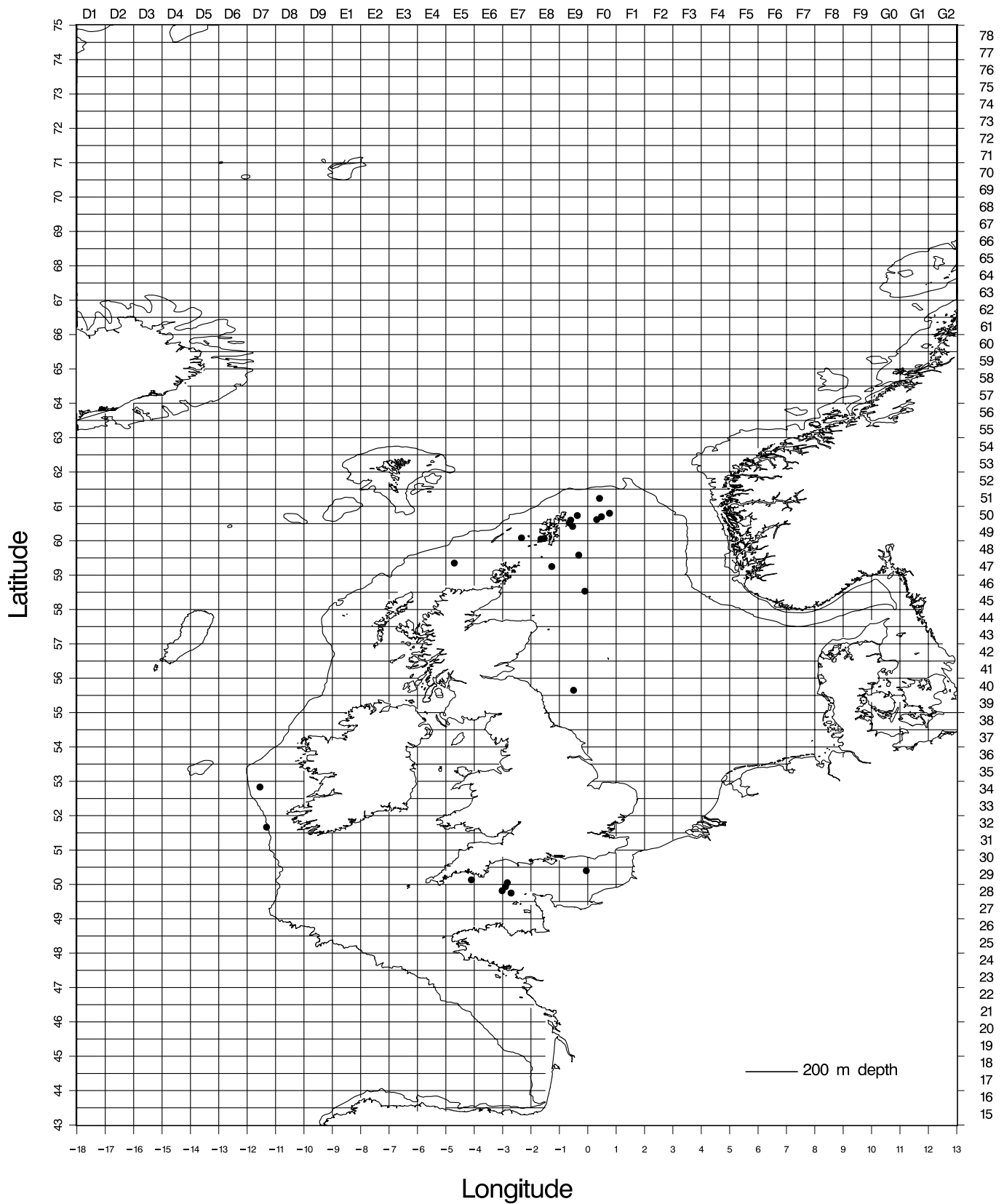


Figure 11c: Mackerel quarter 3 2007
 Positions of age/length samples of commercial catches

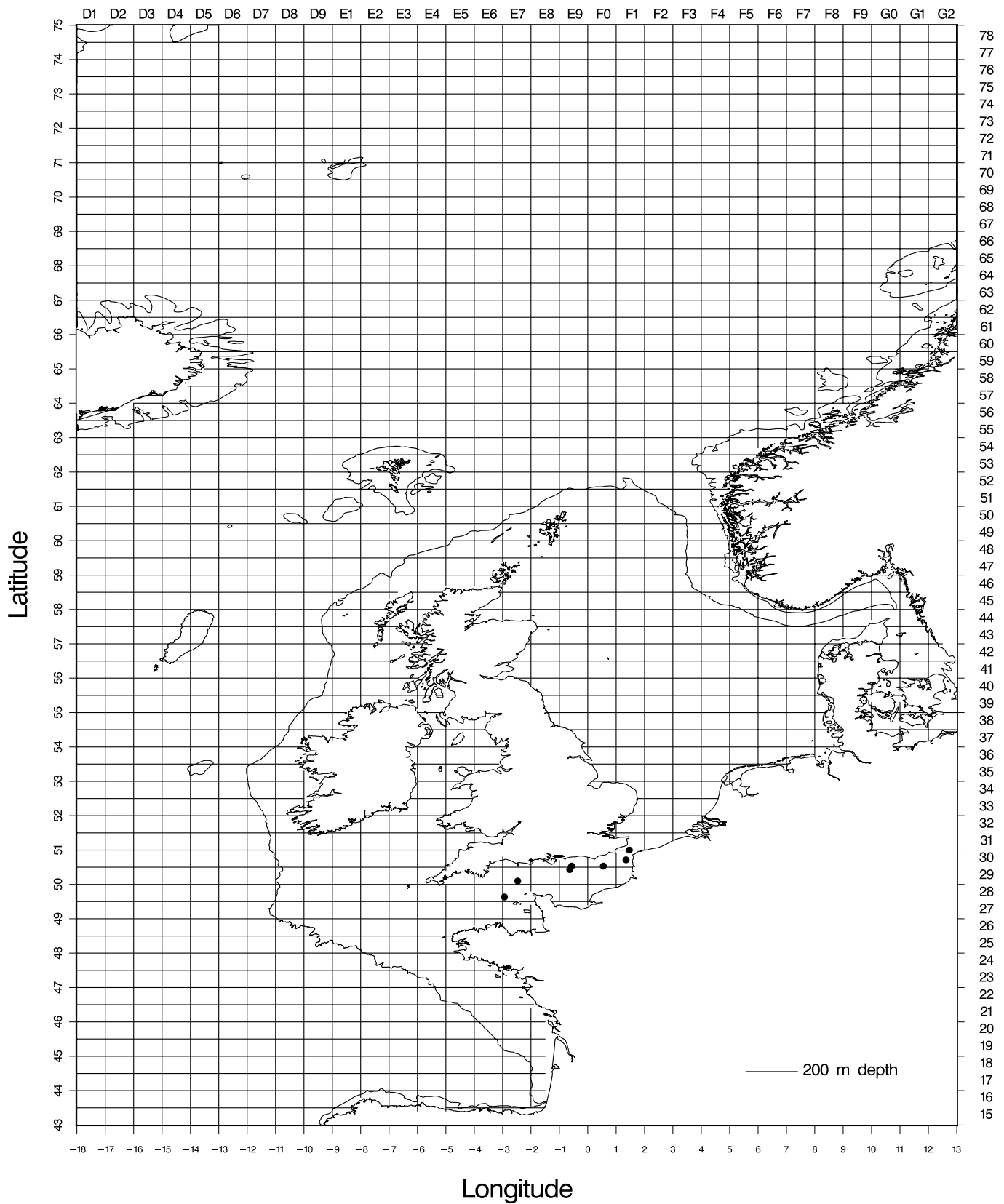


Figure 11d: Mackerel quarter 4 2007
 Positions of age/length samples of commercial catches

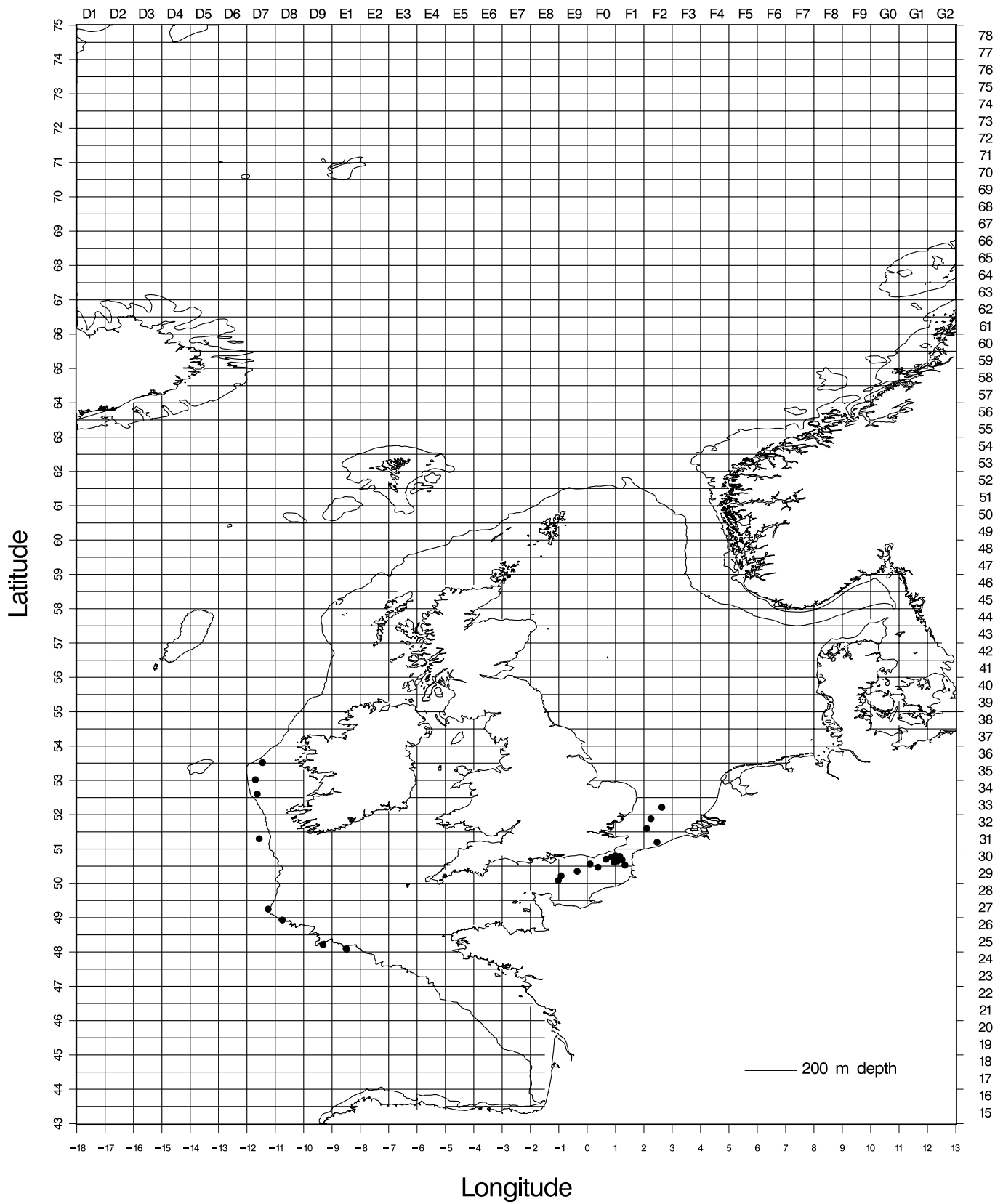


Figure 12a: Horse mackerel quarter 1 2007
 Positions of age/length samples of commercial catches

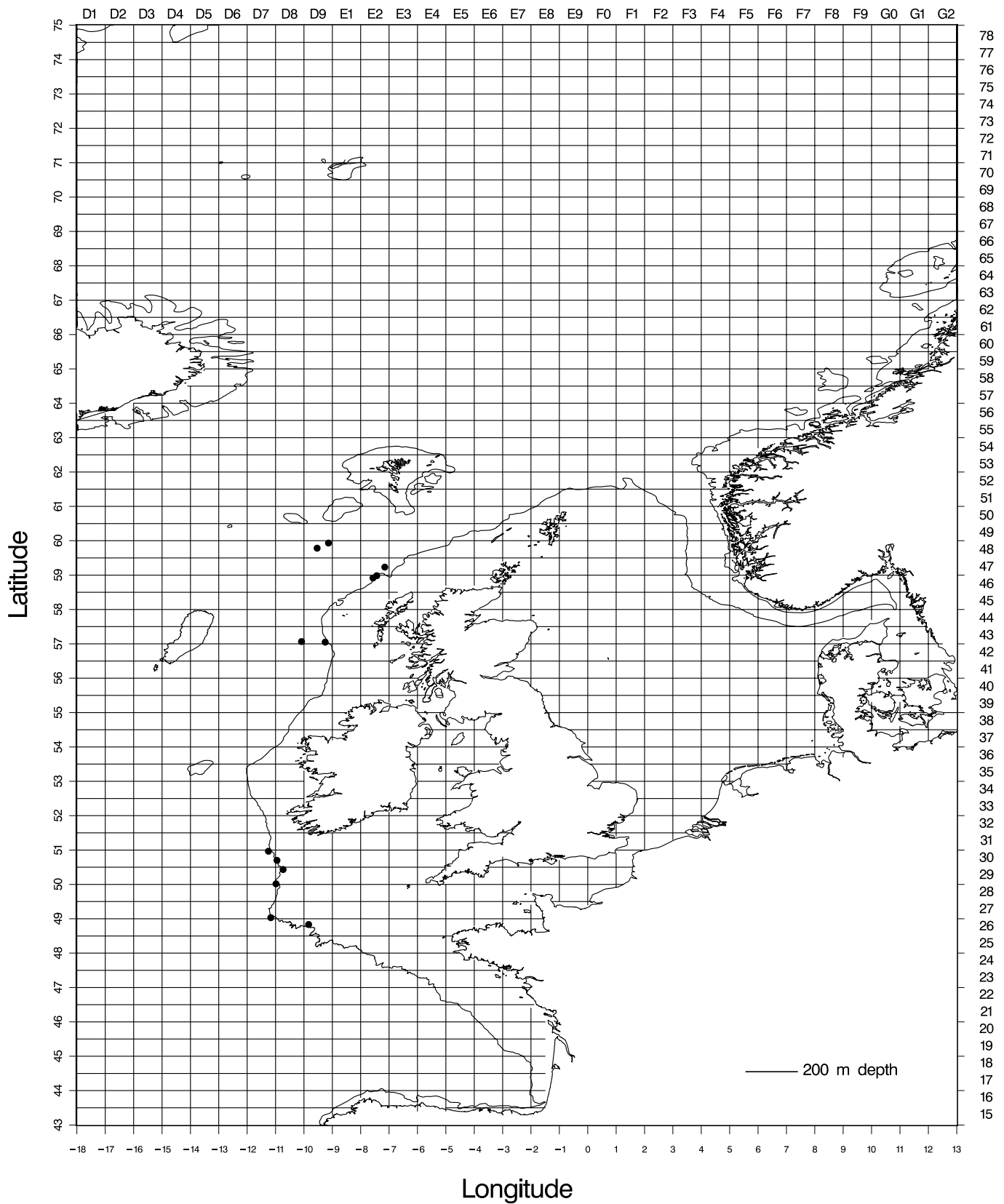


Figure 12b: Horse mackerel quarter 2 2007
Positions of age/length samples of commercial catches

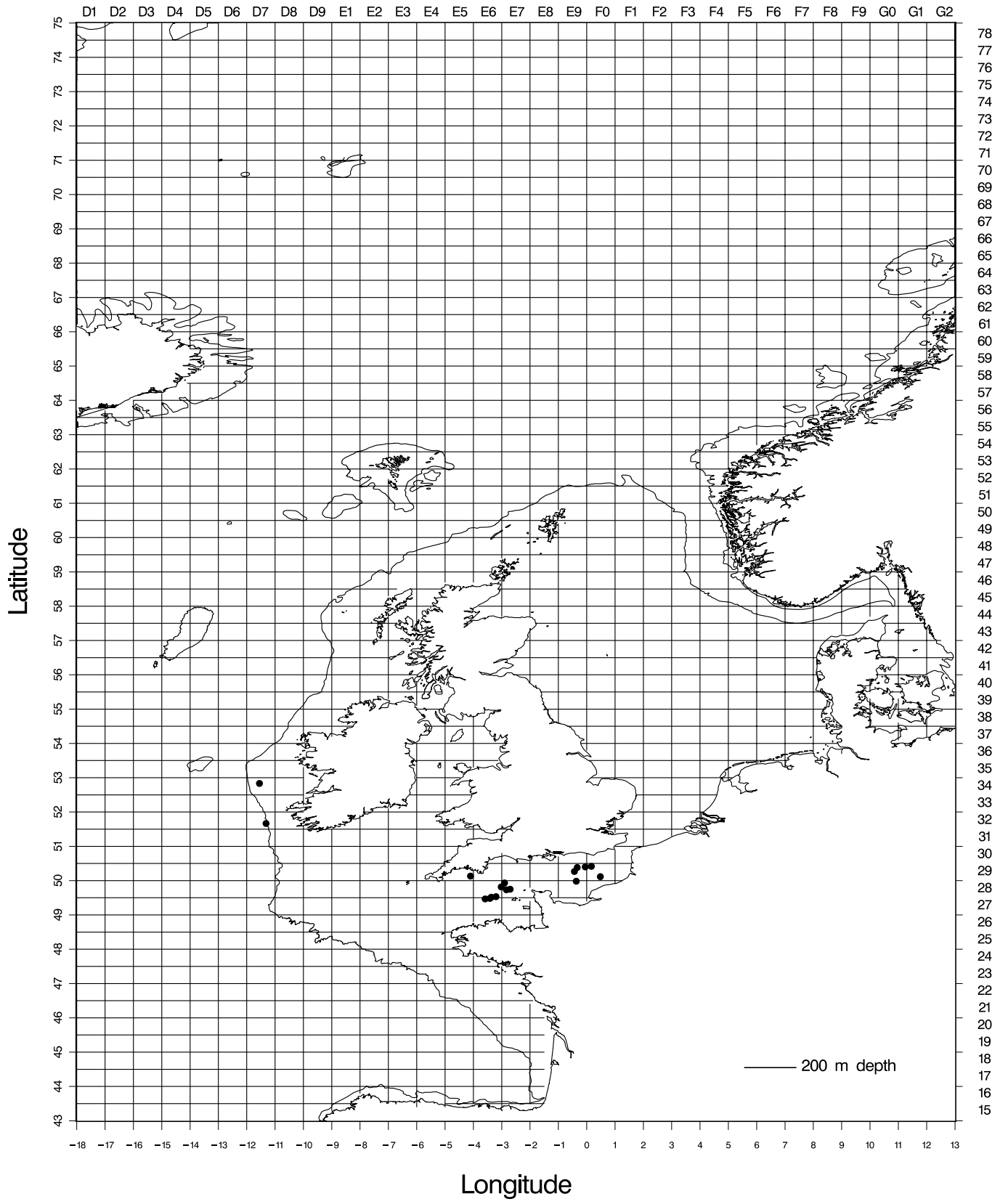


Figure 12c: Horse mackerel quarter 3 2007
 Positions of age/length samples of commercial catches

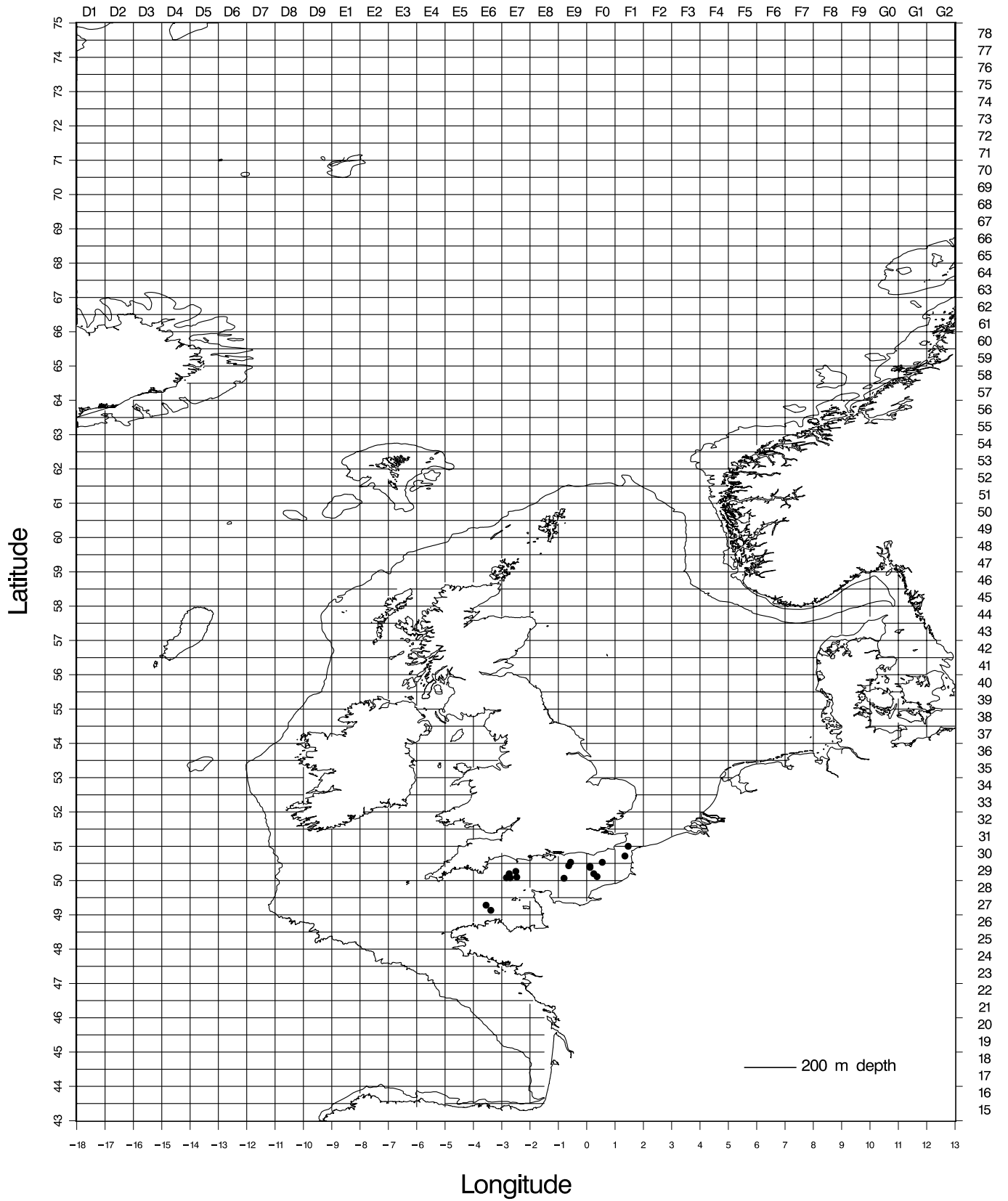


Figure 12d: Horse mackerel quarter 4 2007
 Positions of age/length samples of commercial catches

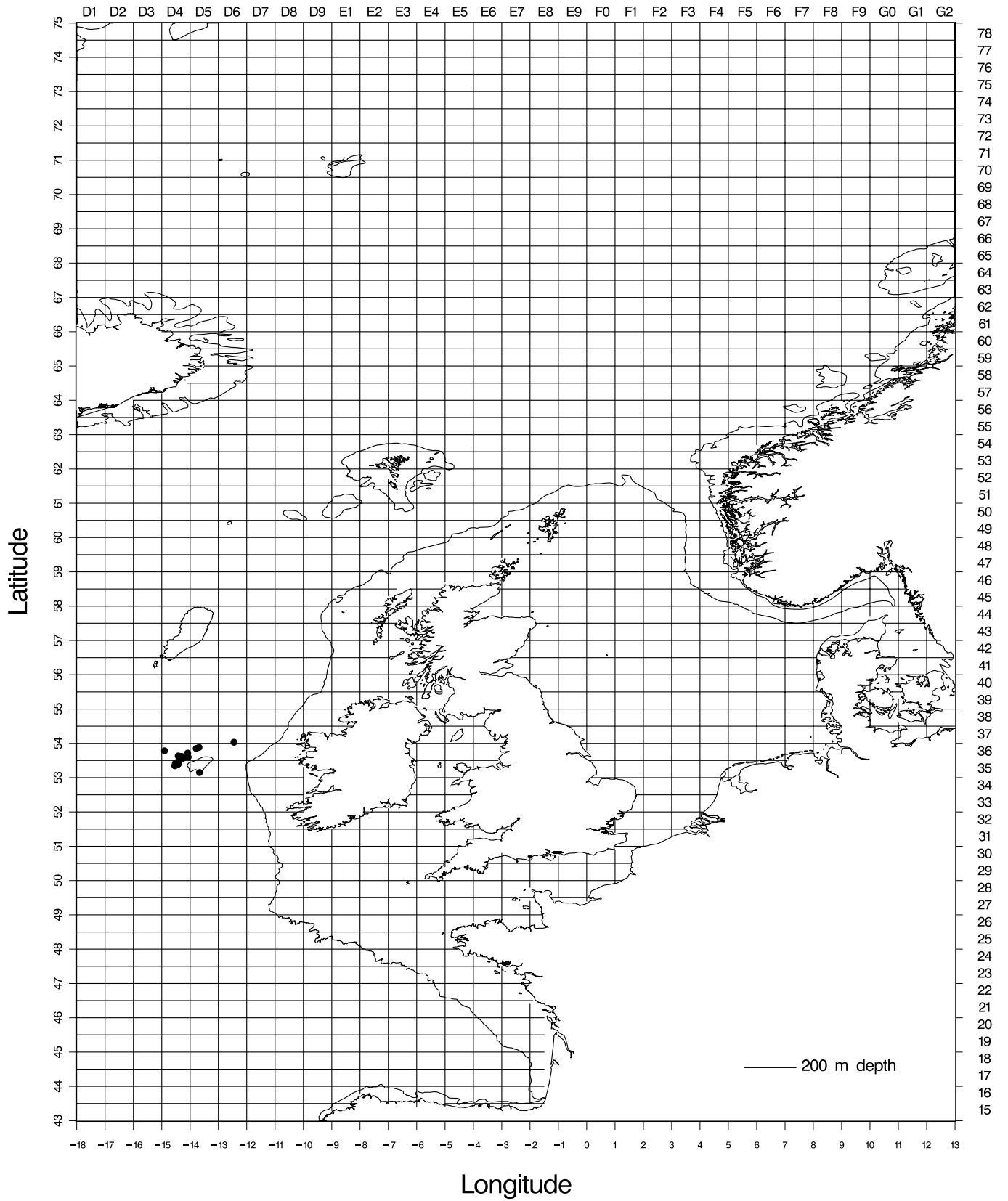


Figure 13a: Blue whiting quarter 1 2007
 Positions of age/length samples of commercial catches

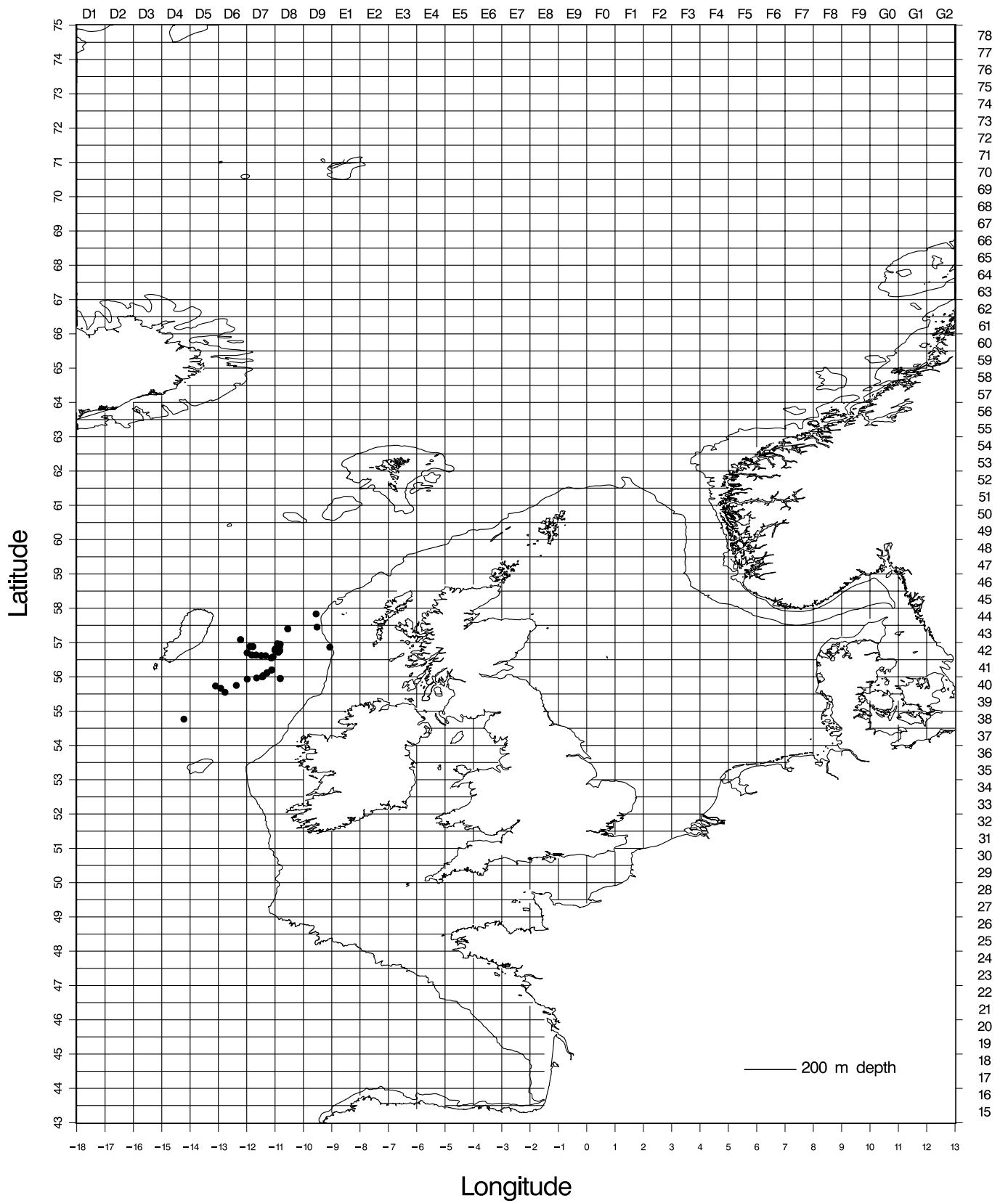


Figure 13b: Blue whiting quarter 2 2007
Positions of age/length samples of commercial catches

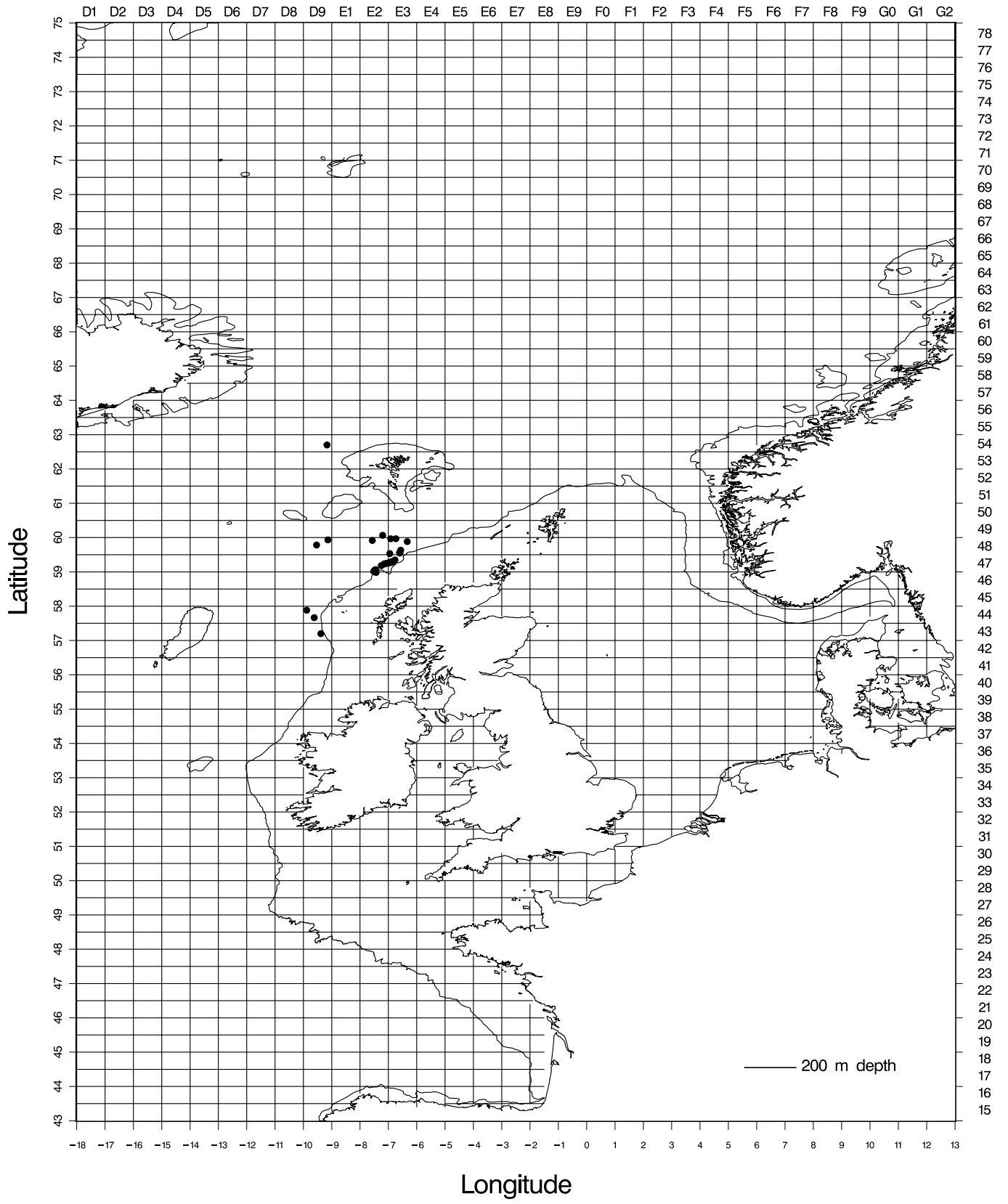


Figure 14b: Greater argentine quarter 2 2007
 Positions of age/length samples of commercial catches

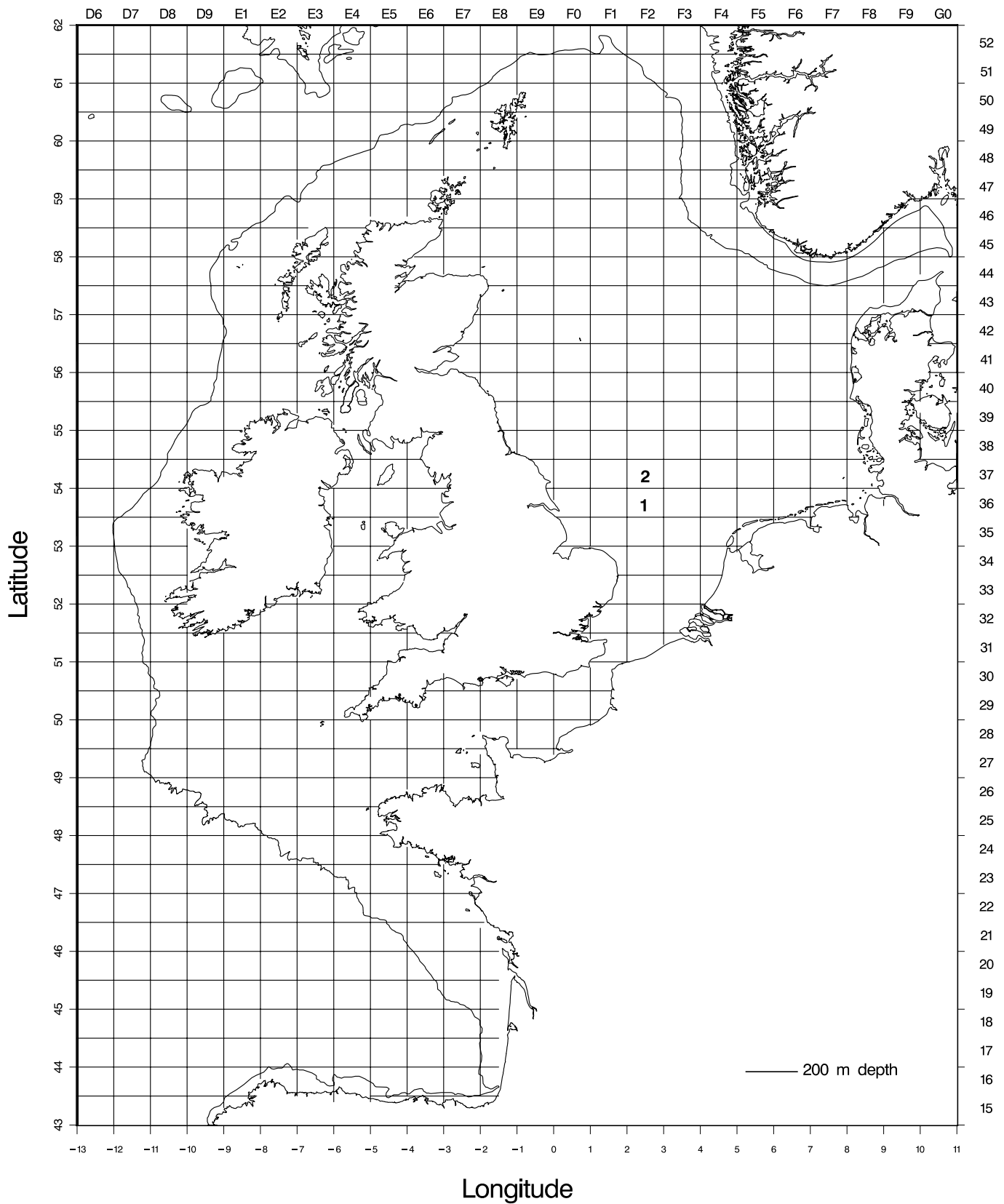


Figure 15a: Nephrops quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

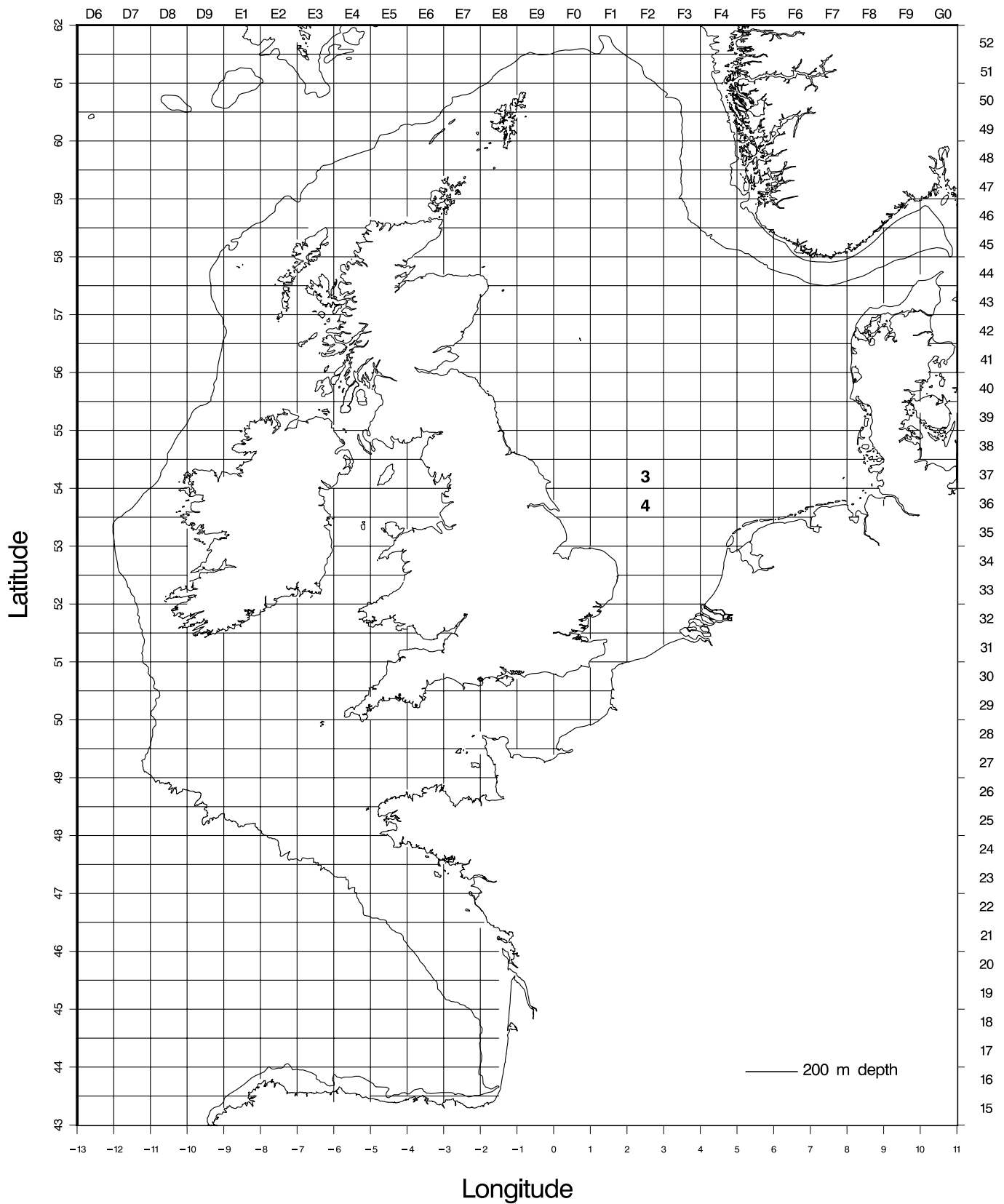


Figure 15b: Nephrops quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

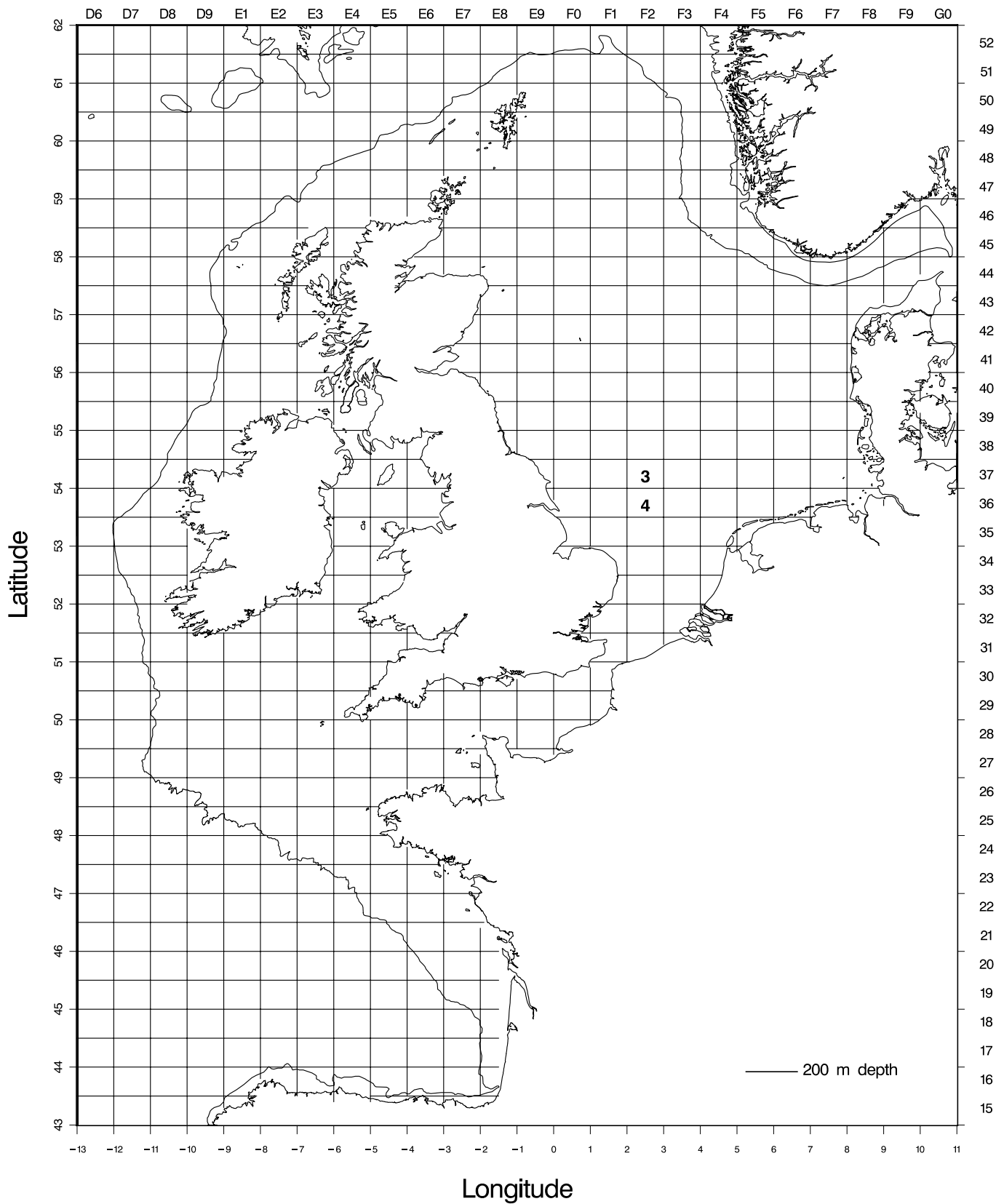


Figure 15c: Nephrops quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

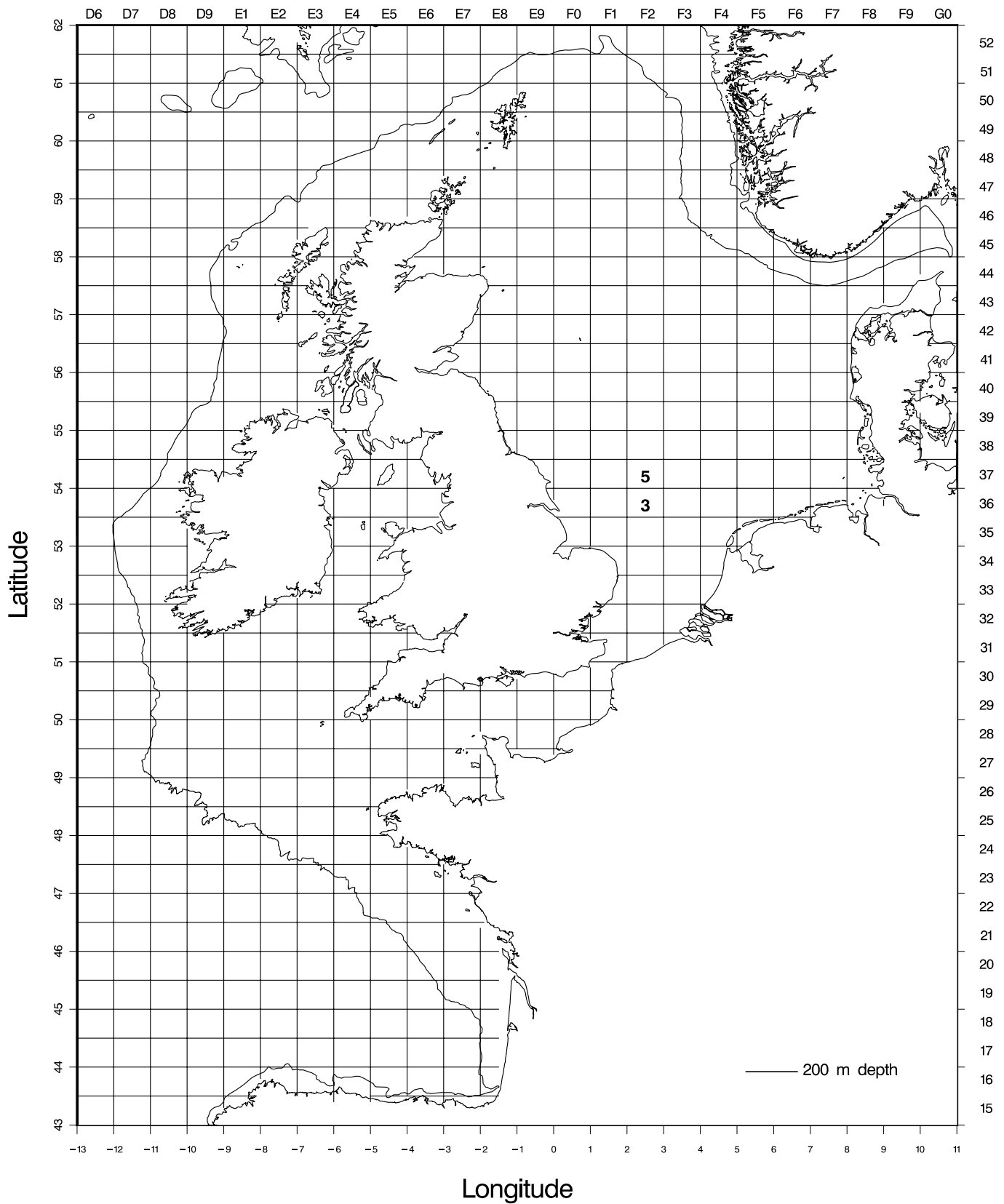


Figure 15d: Nephrops quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

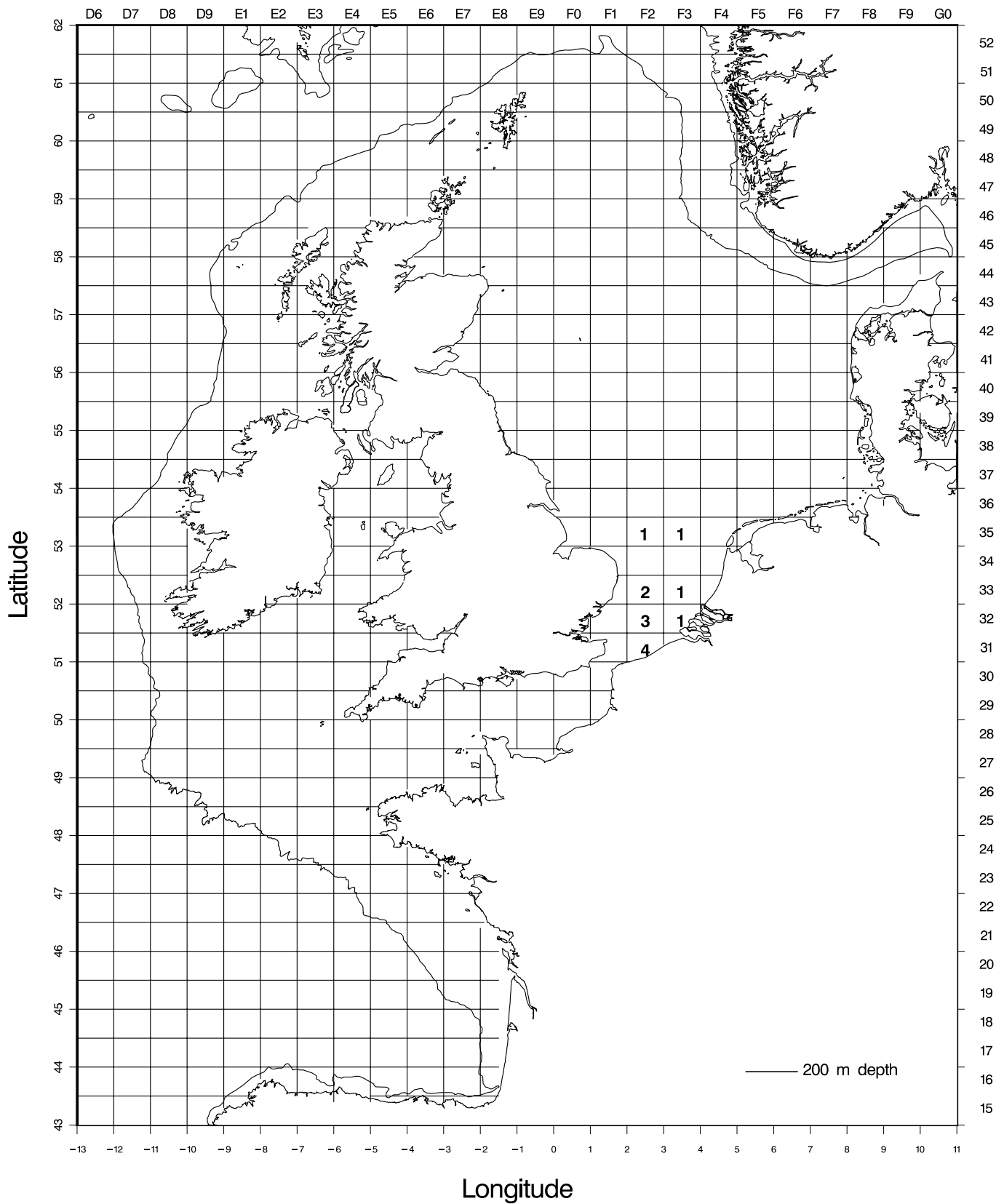


Figure 16a: Ray blond quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

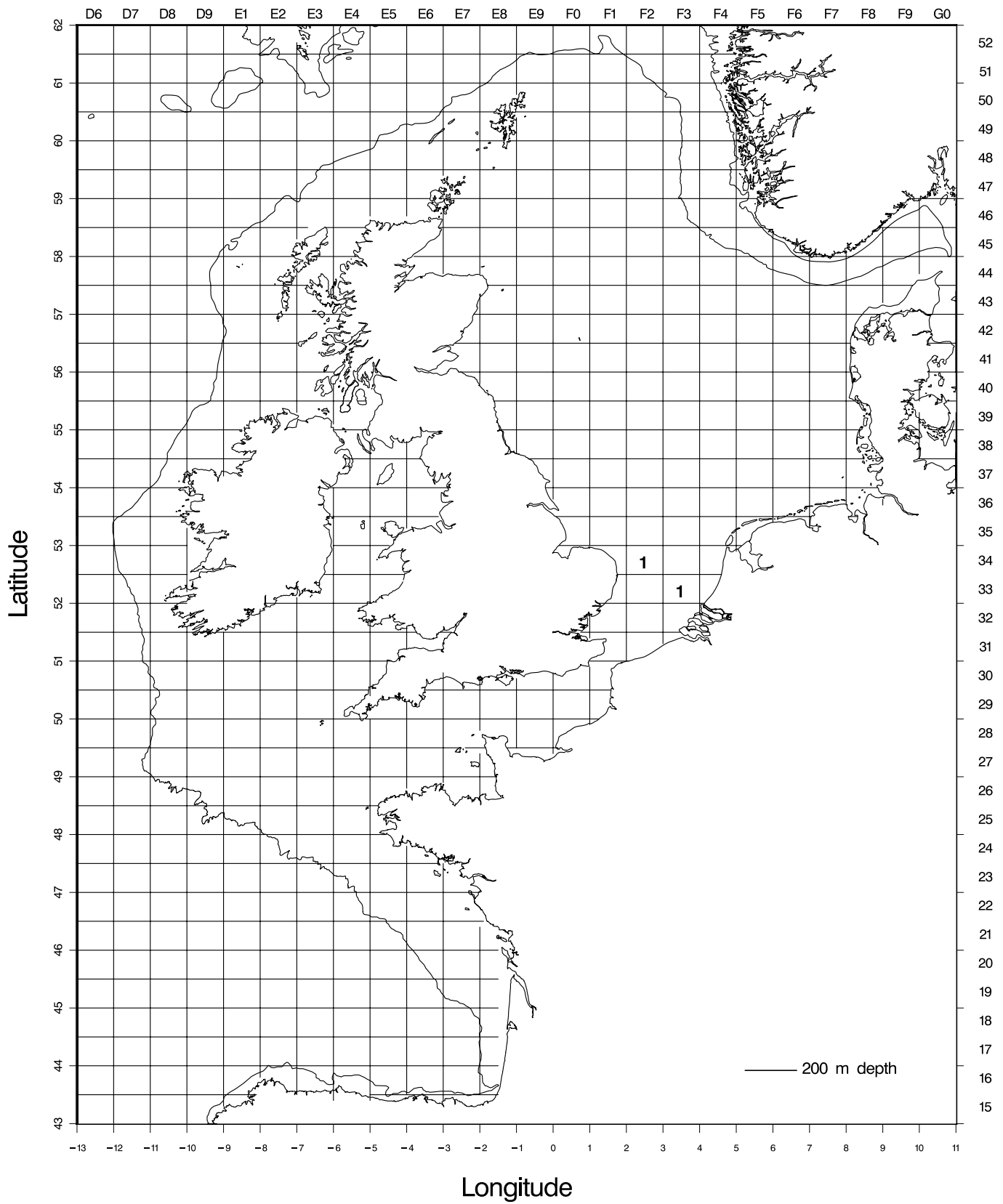


Figure 16b: Ray blond quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

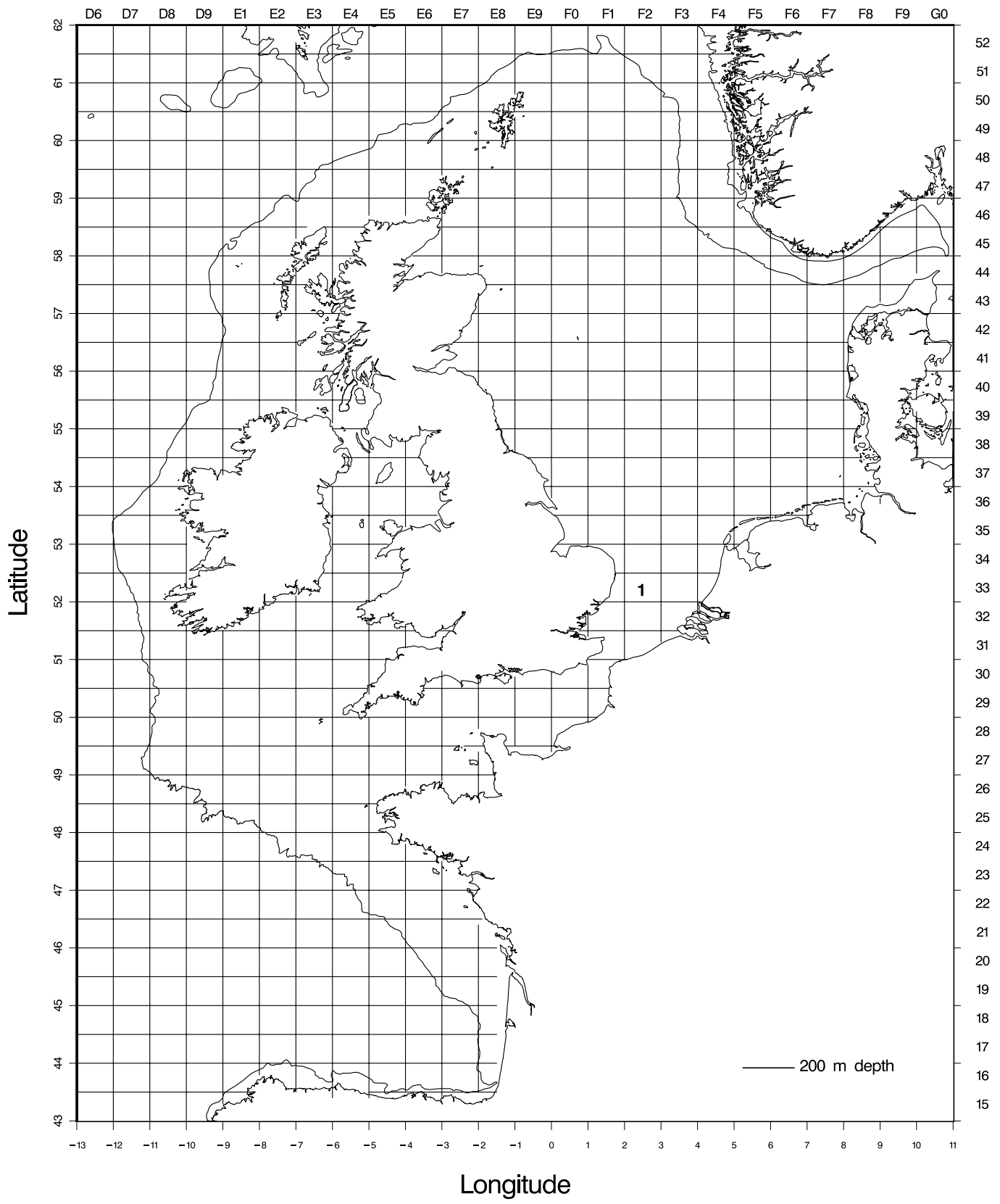


Figure 16c: Ray blond quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

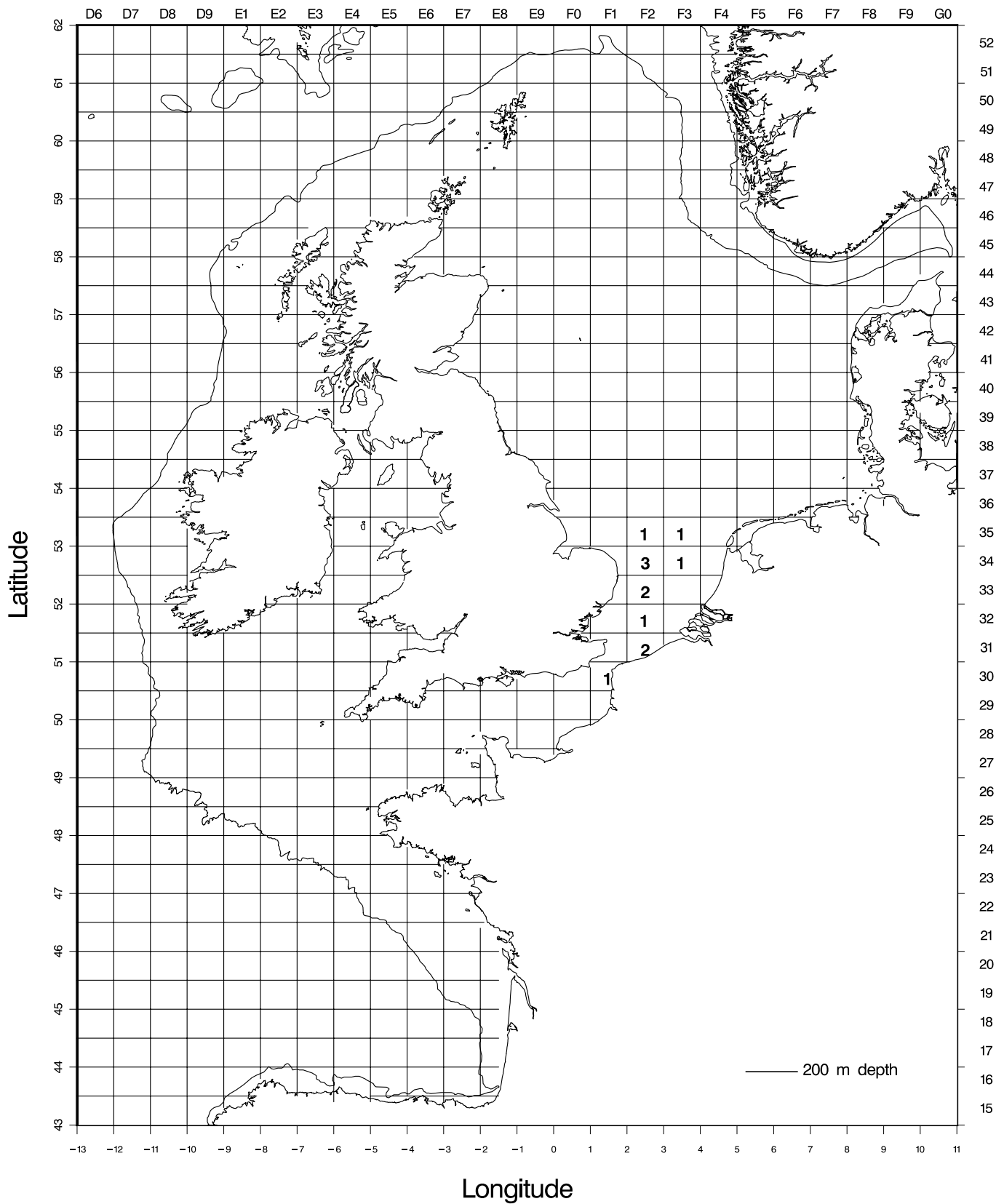


Figure 16d: Ray blond quarter 4 2007

Number of age/length samples of commercial catches per ICES rectangle

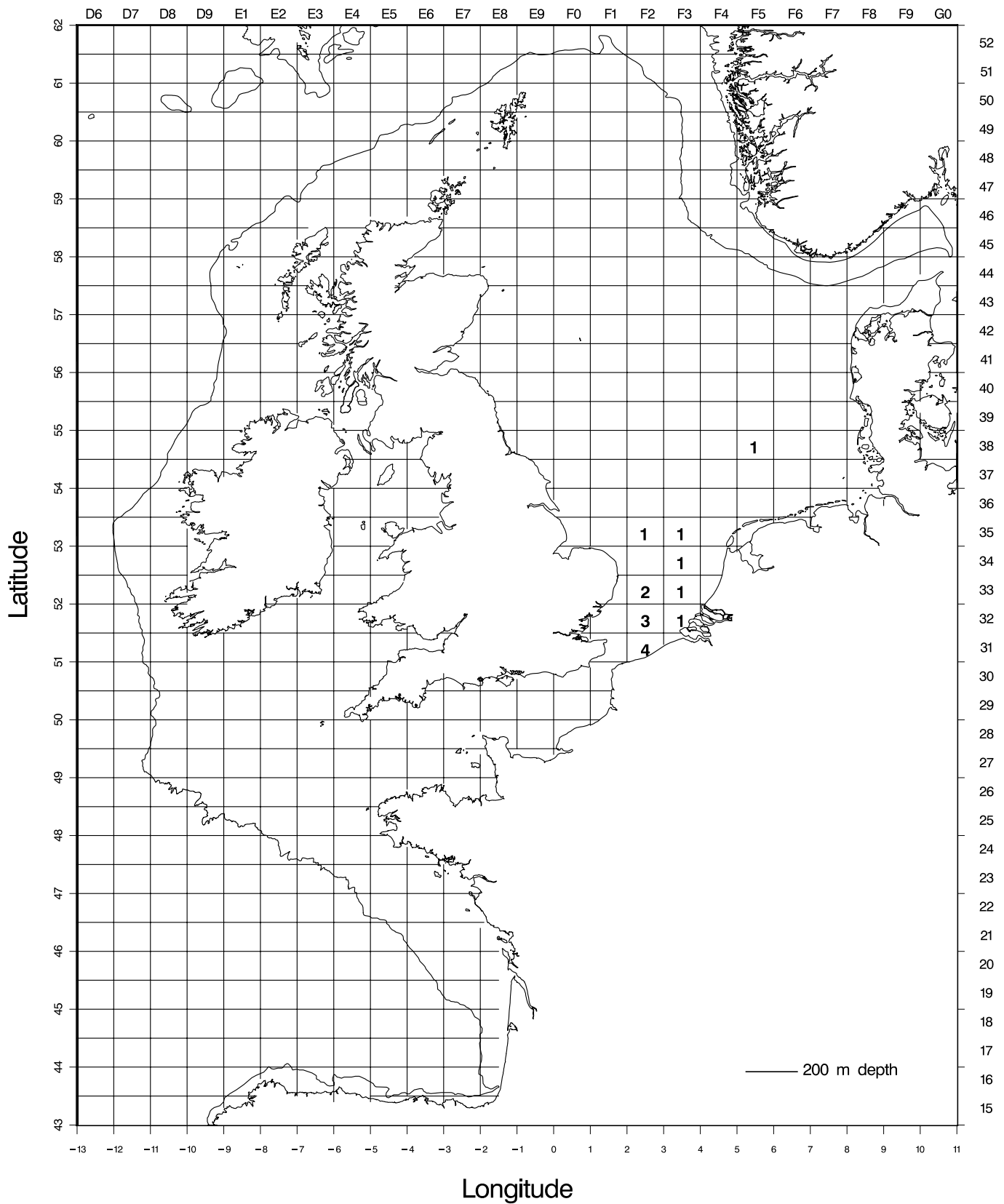


Figure 17a: Ray spotted quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

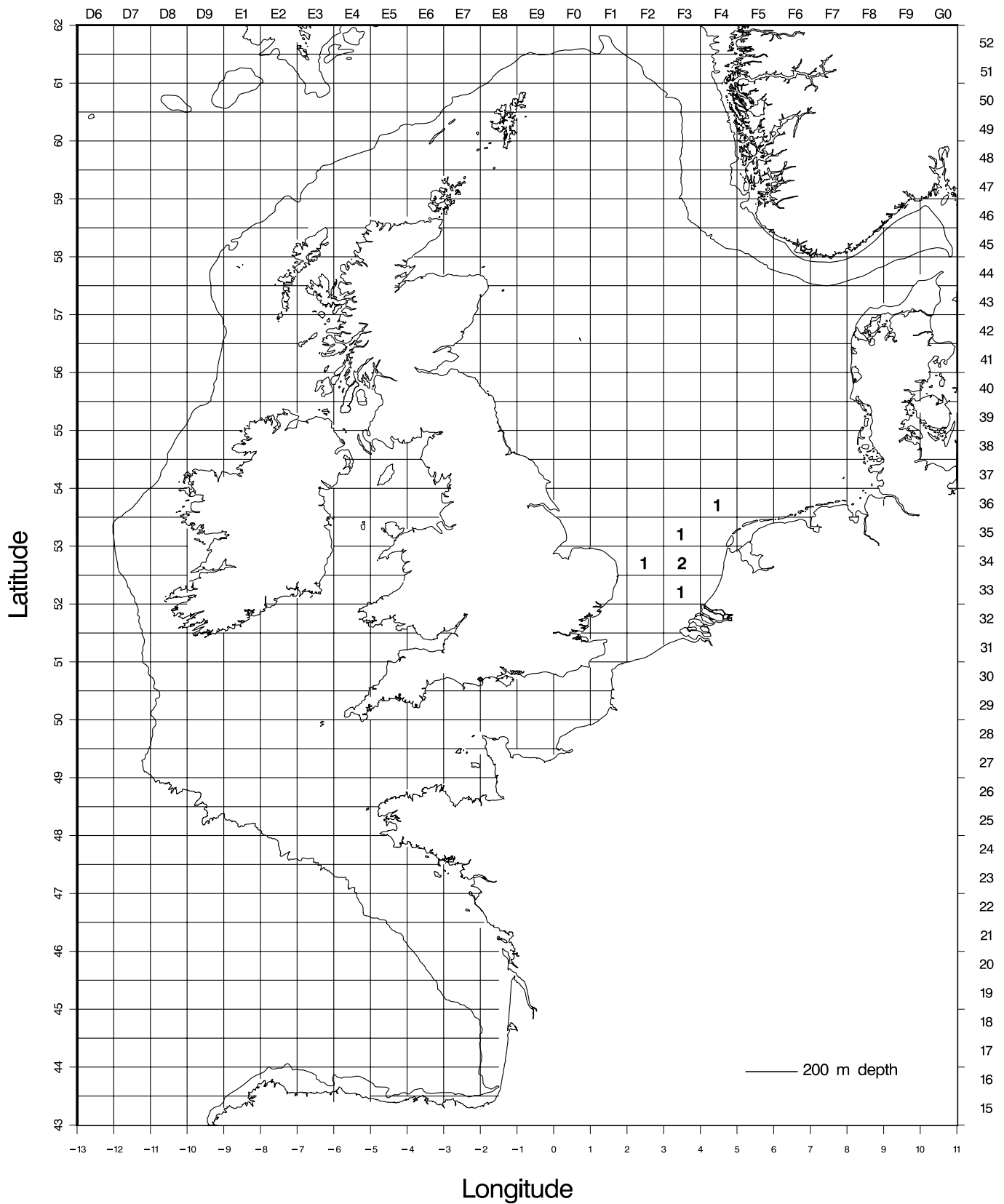


Figure 17b: Ray spotted quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

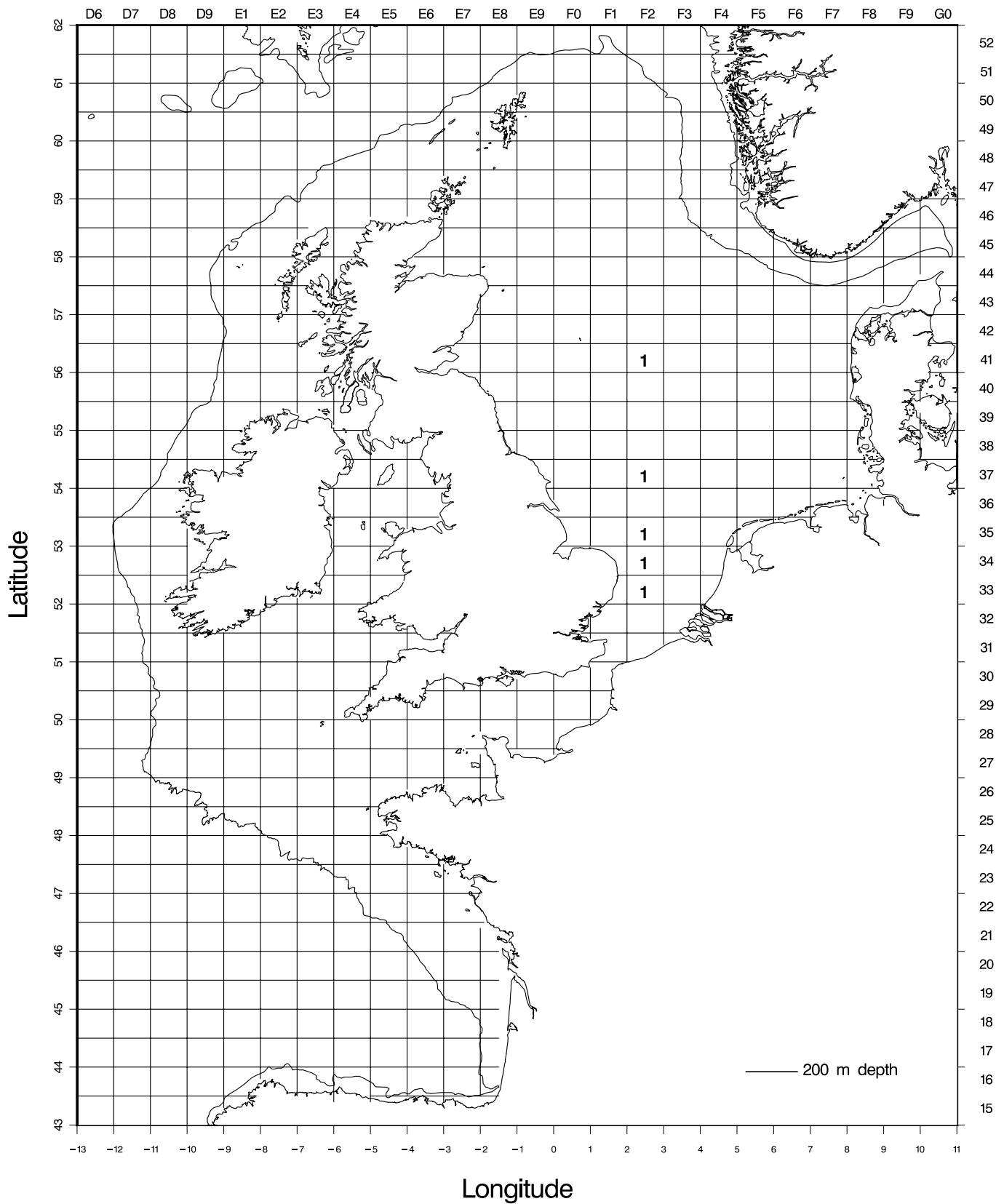


Figure 17c: Ray spotted quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

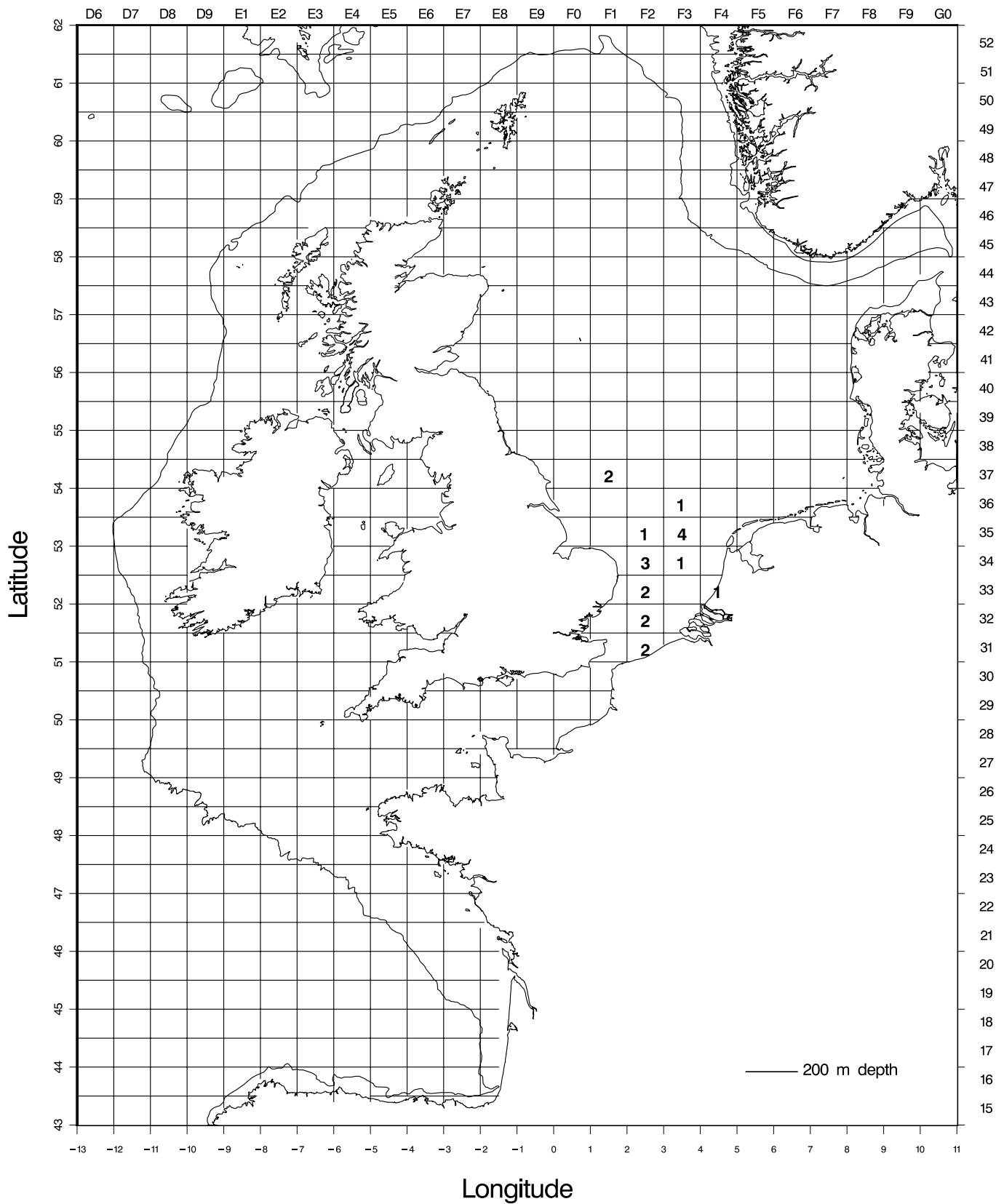


Figure 17d: Ray spotted quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

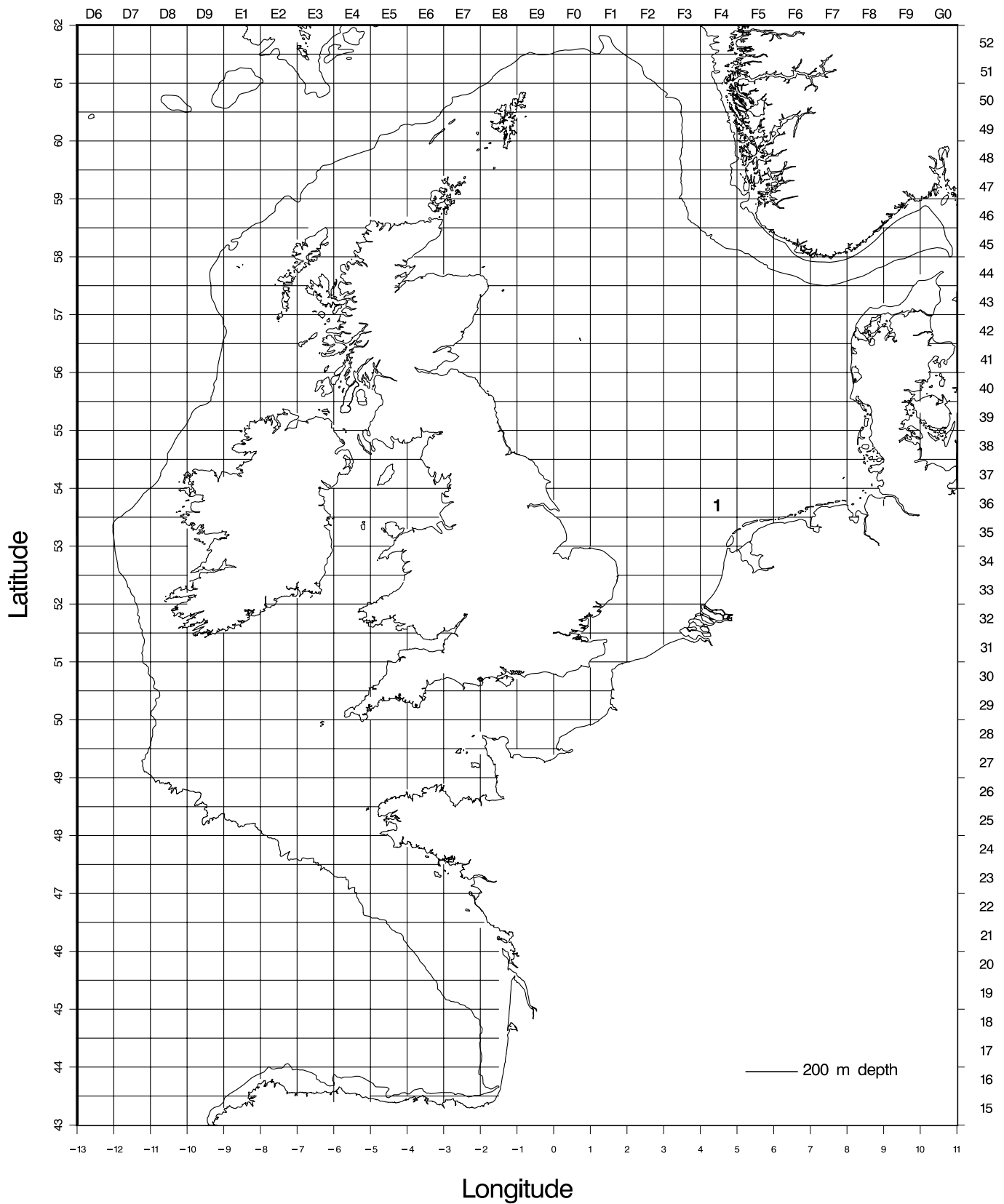


Figure 18b: Ray starry quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

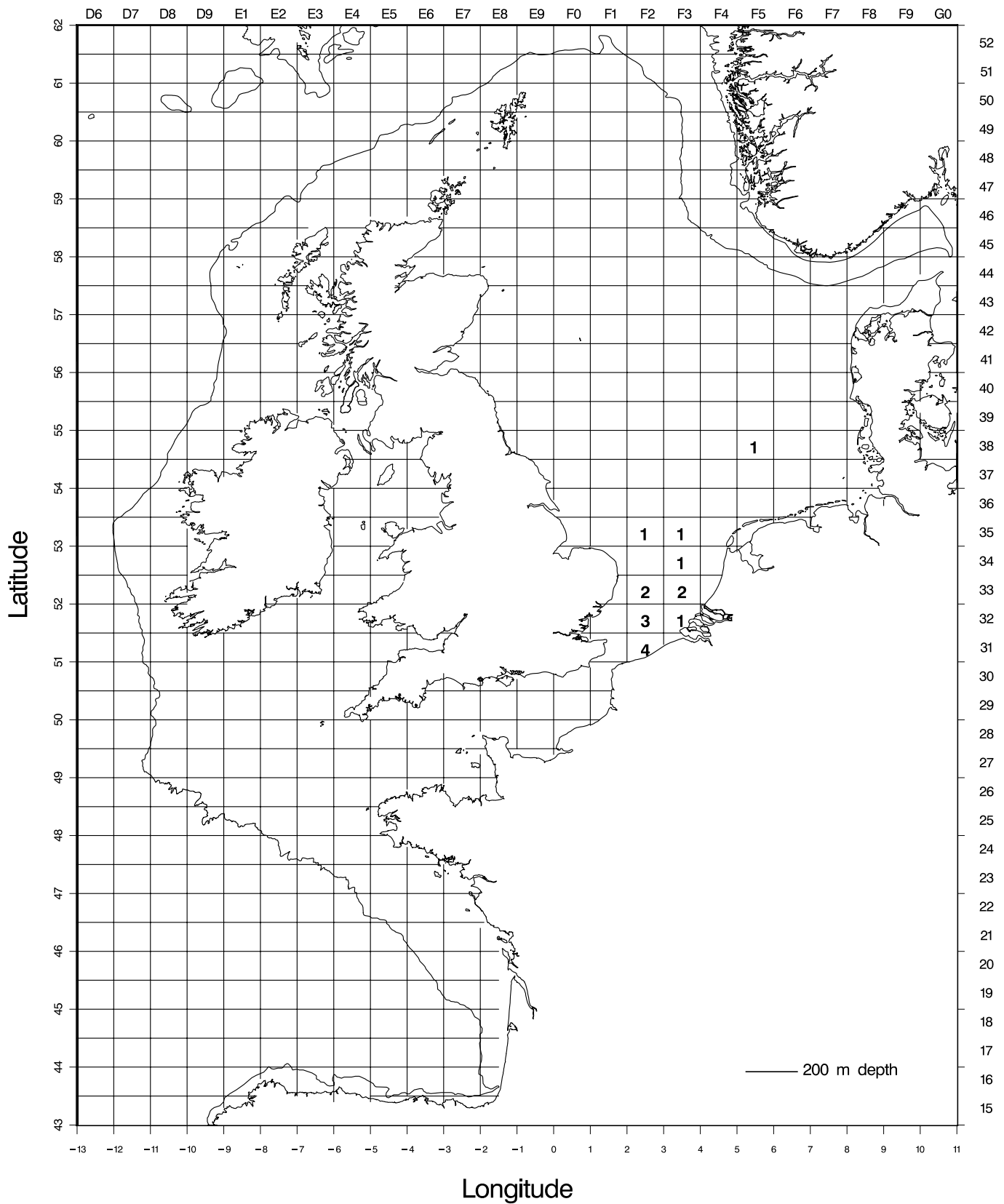


Figure 19a: Ray thornback quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

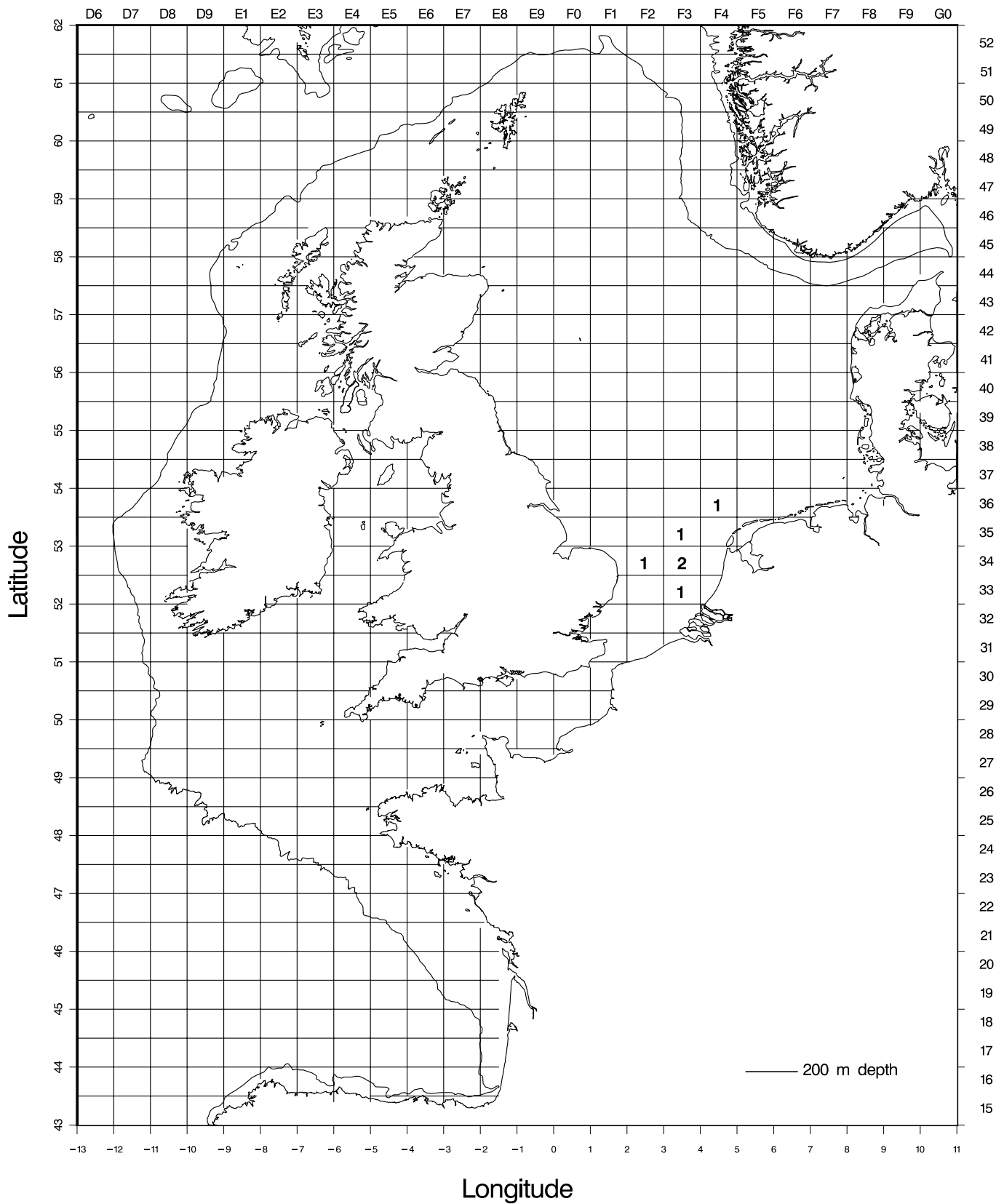


Figure 19b: Ray thornback quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

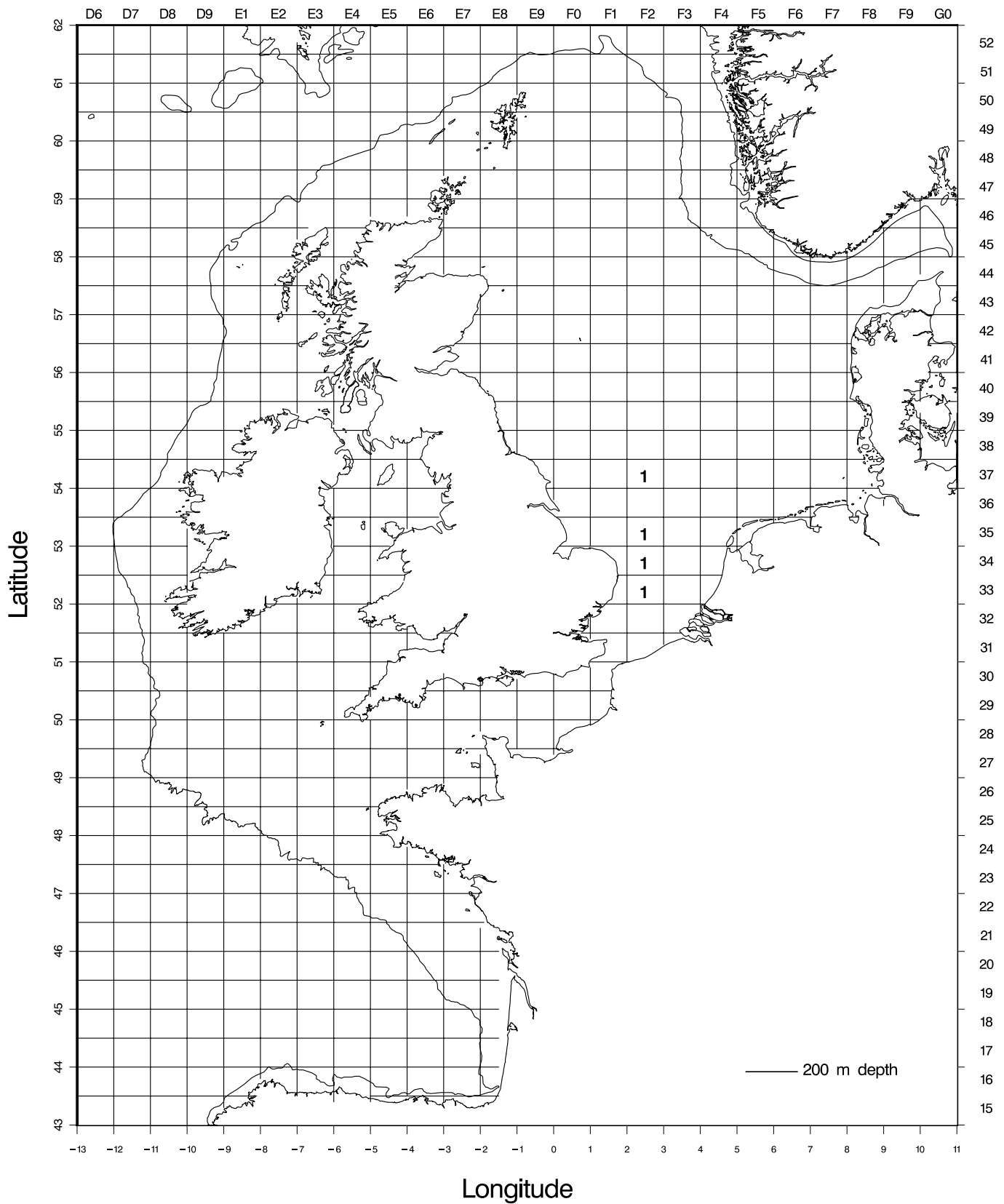


Figure 19c: Ray thornback quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

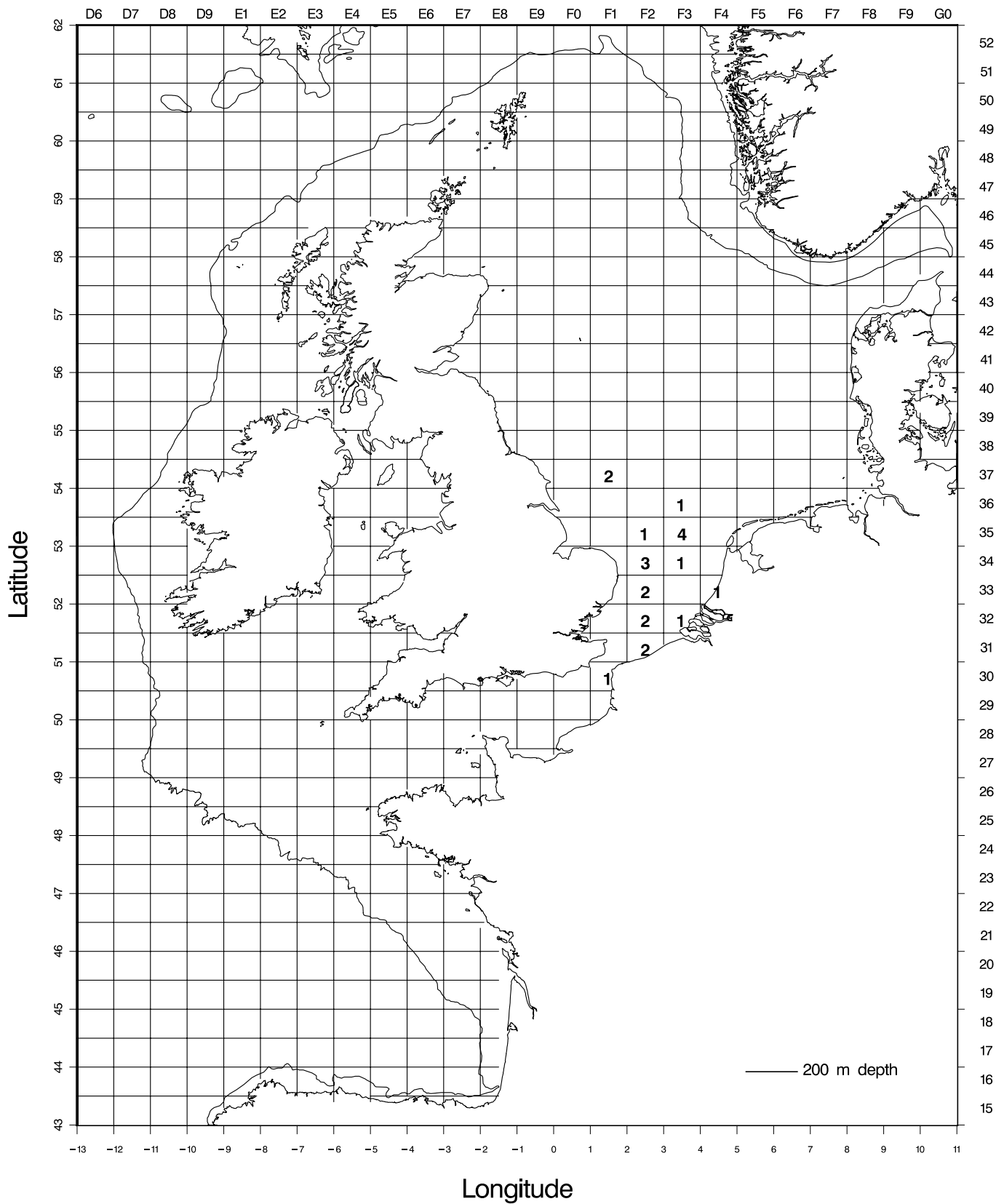


Figure 19d: Ray thornback quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

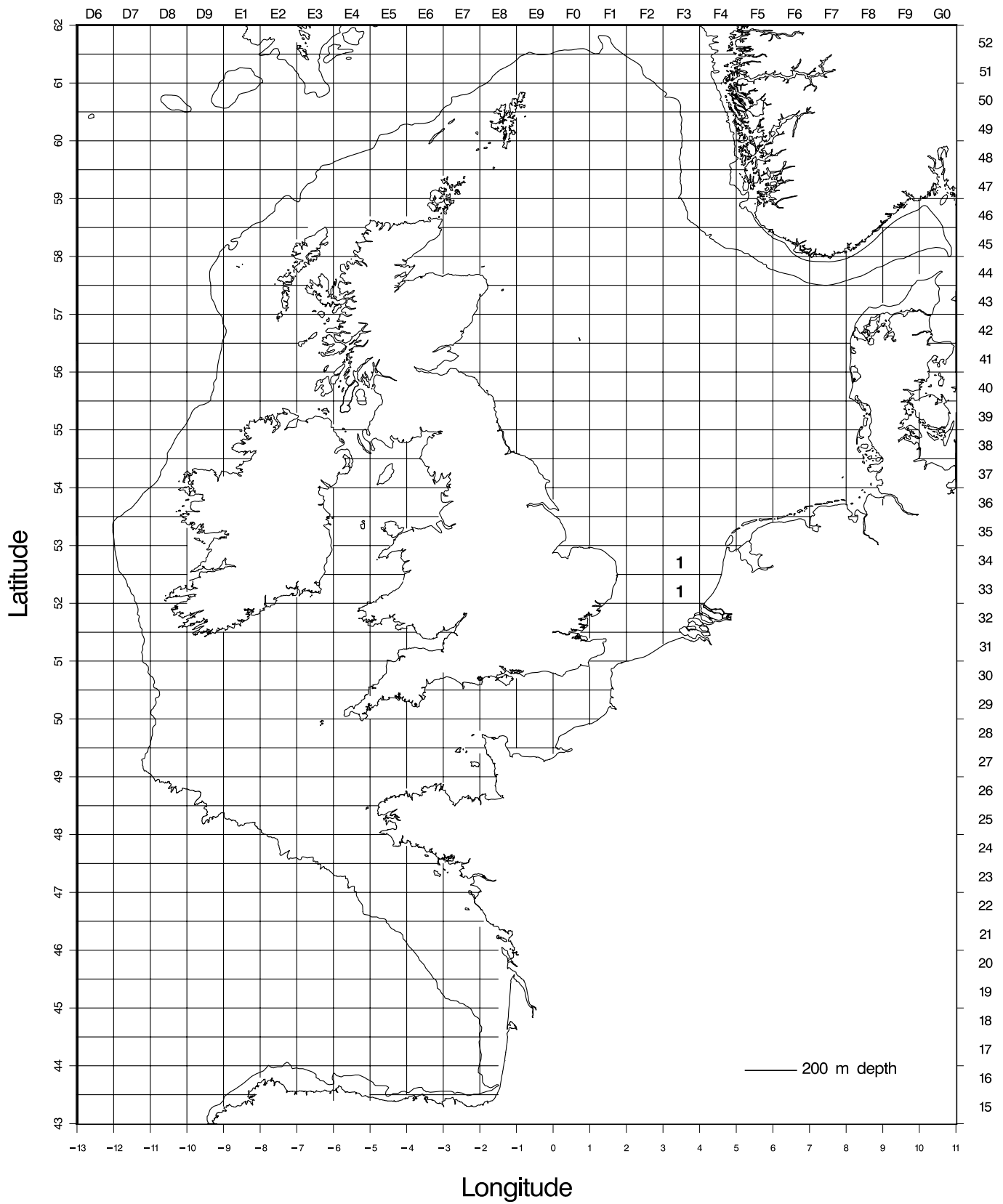


Figure 21b: Red mullet quarter 2 2007
 Number of length samples of commercial catches per ICES rectangle

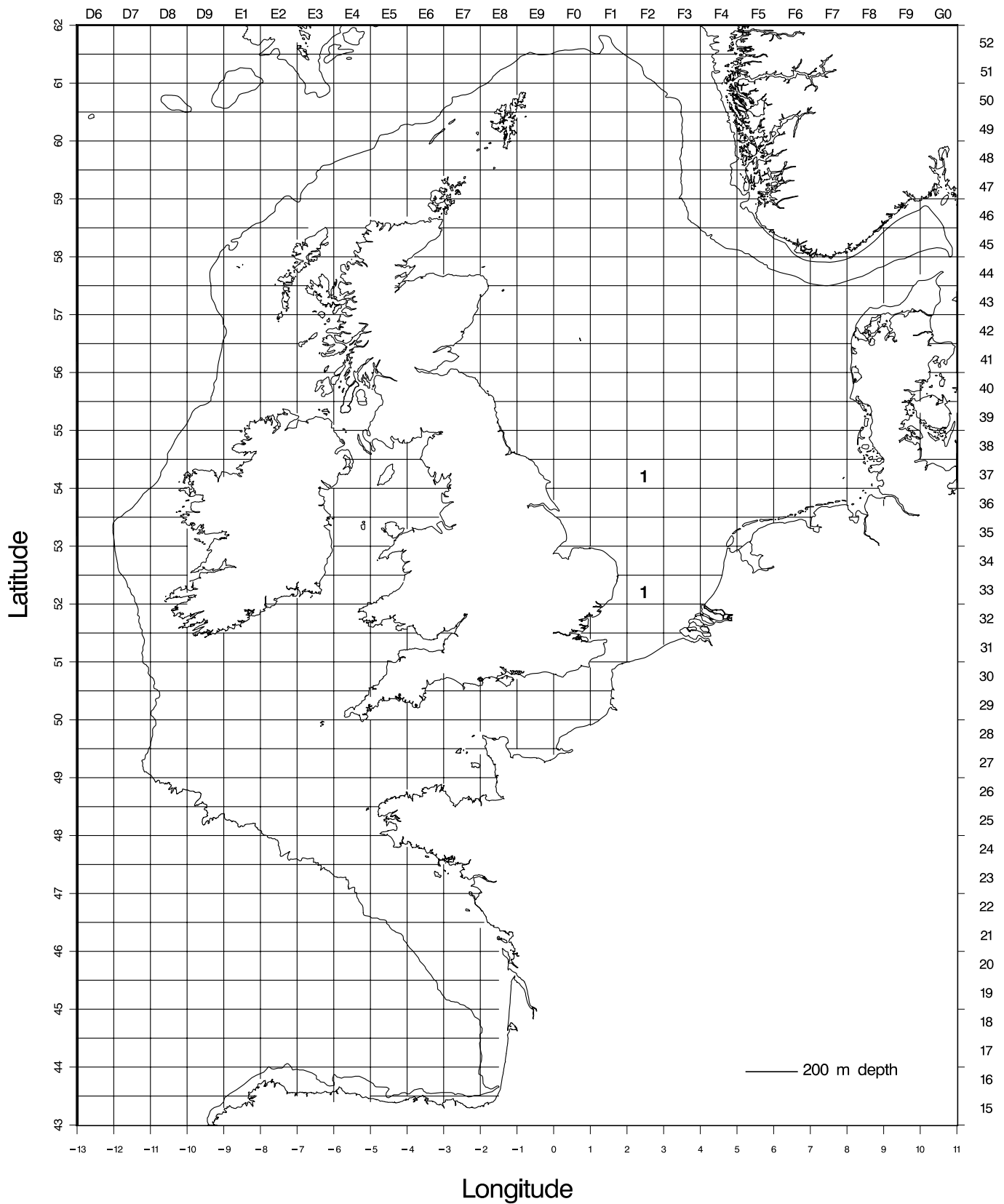


Figure 21c: Red mullet quarter 3 2007
 Number of length samples of commercial catches per ICES rectangle

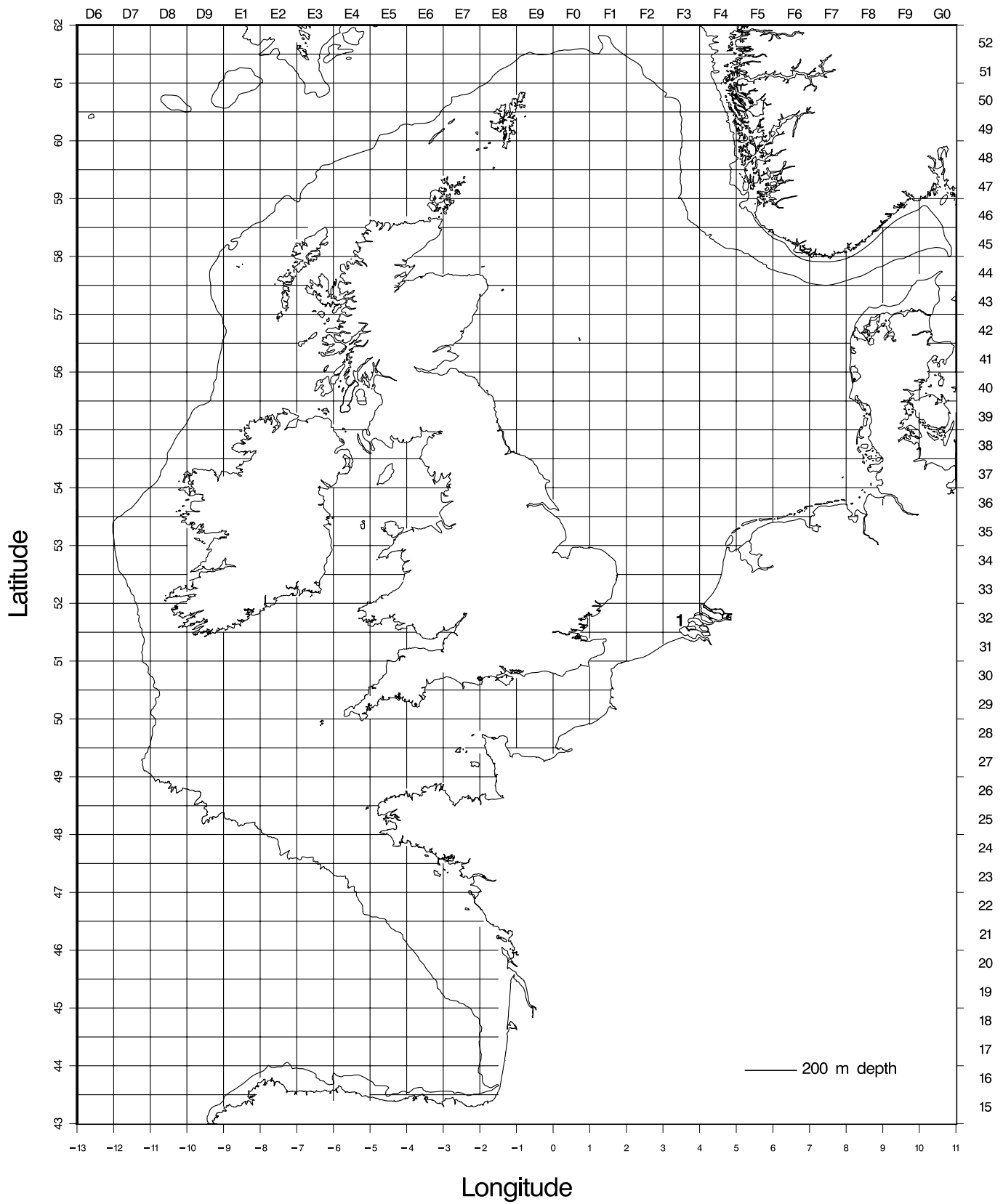


Figure 22a: Bass quarter 1 2007
 Number of age/length samples of commercial catches per ICES rectangle

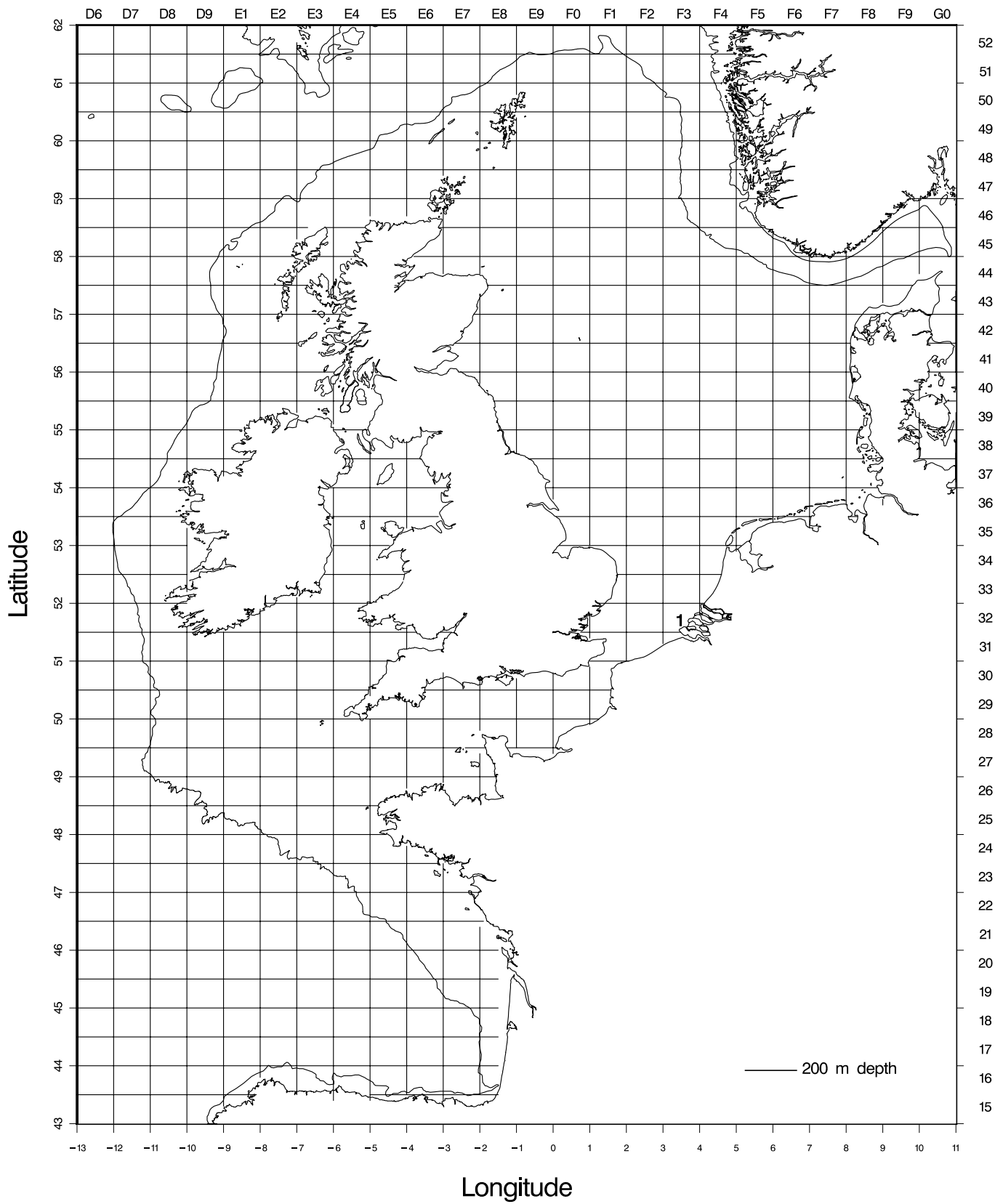


Figure 22b: Bass quarter 2 2007
 Number of age/length samples of commercial catches per ICES rectangle

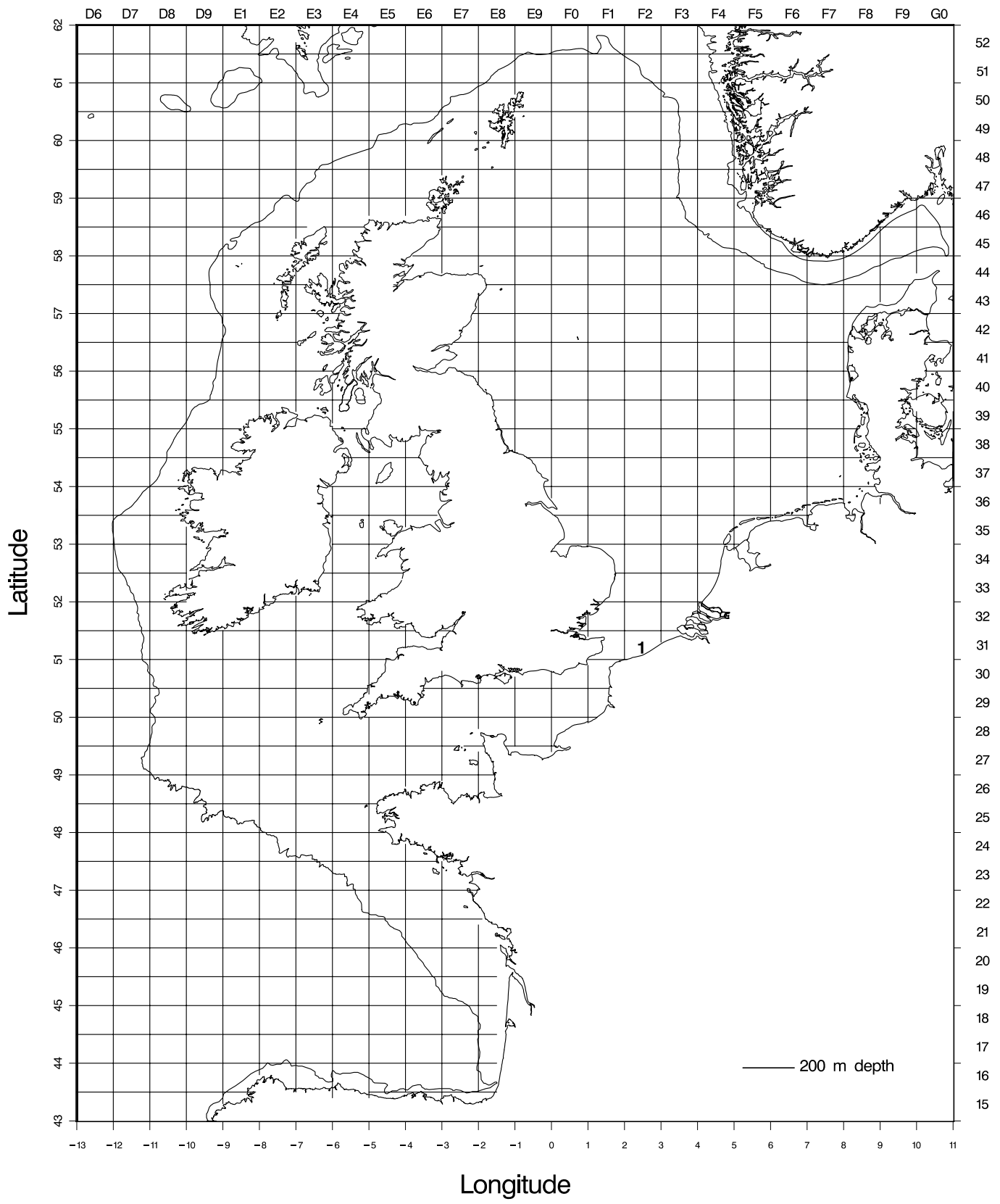


Figure 22c: Bass quarter 3 2007
 Number of age/length samples of commercial catches per ICES rectangle

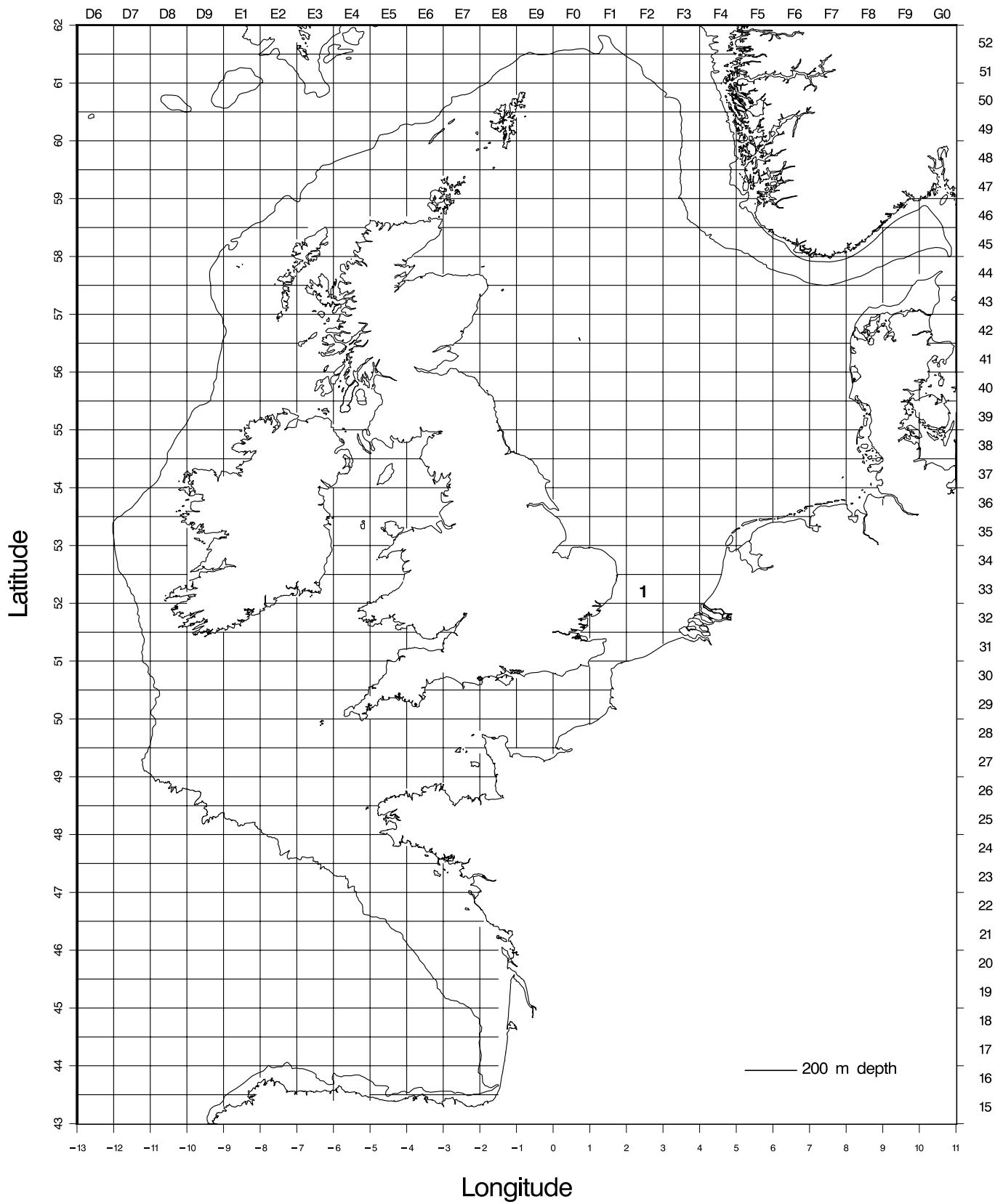


Figure 22d: Bass quarter 4 2007
 Number of age/length samples of commercial catches per ICES rectangle

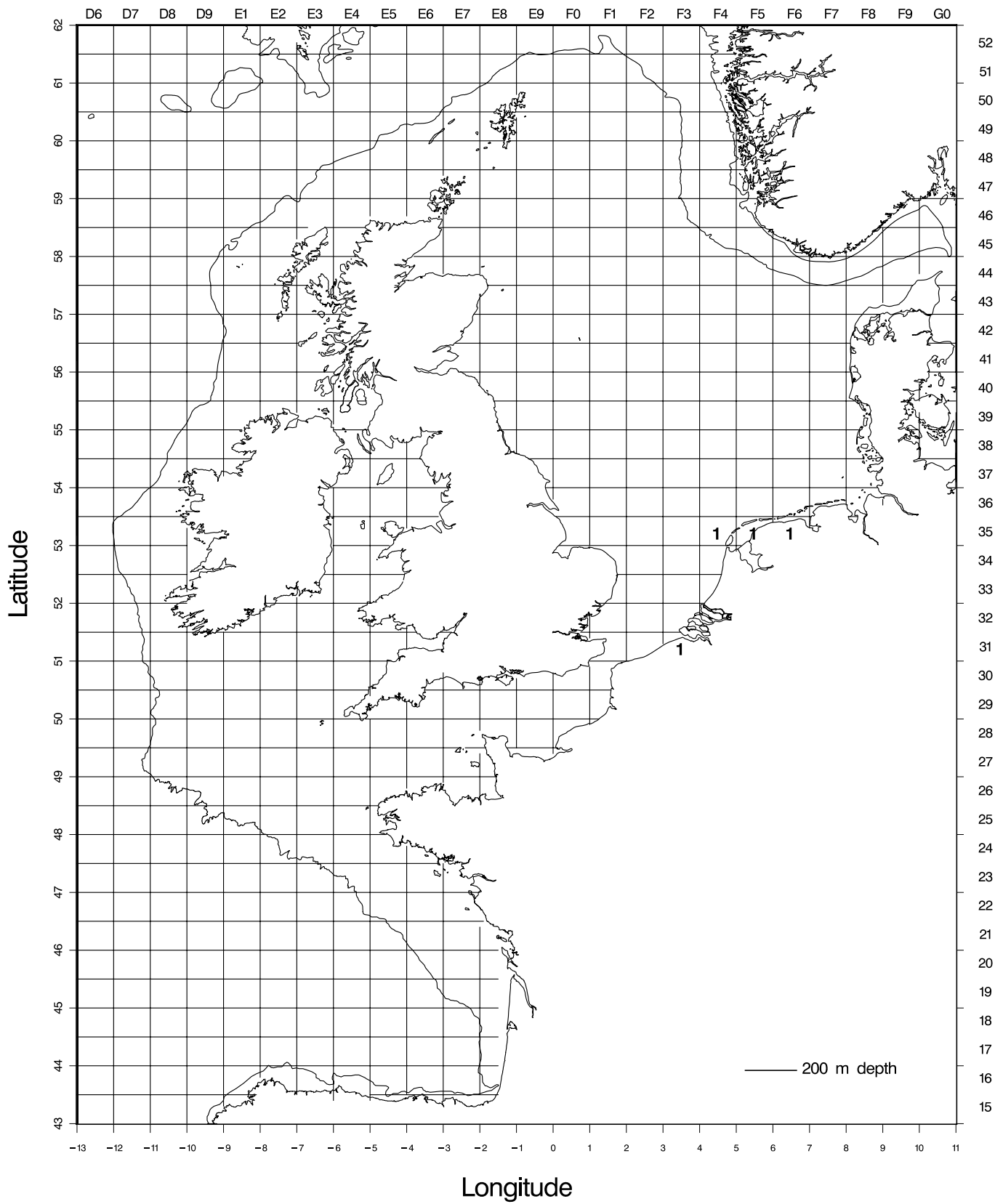


Figure 23a: Common shrimp quarter 1 2007
 Number of length samples of commercial catches per ICES rectangle

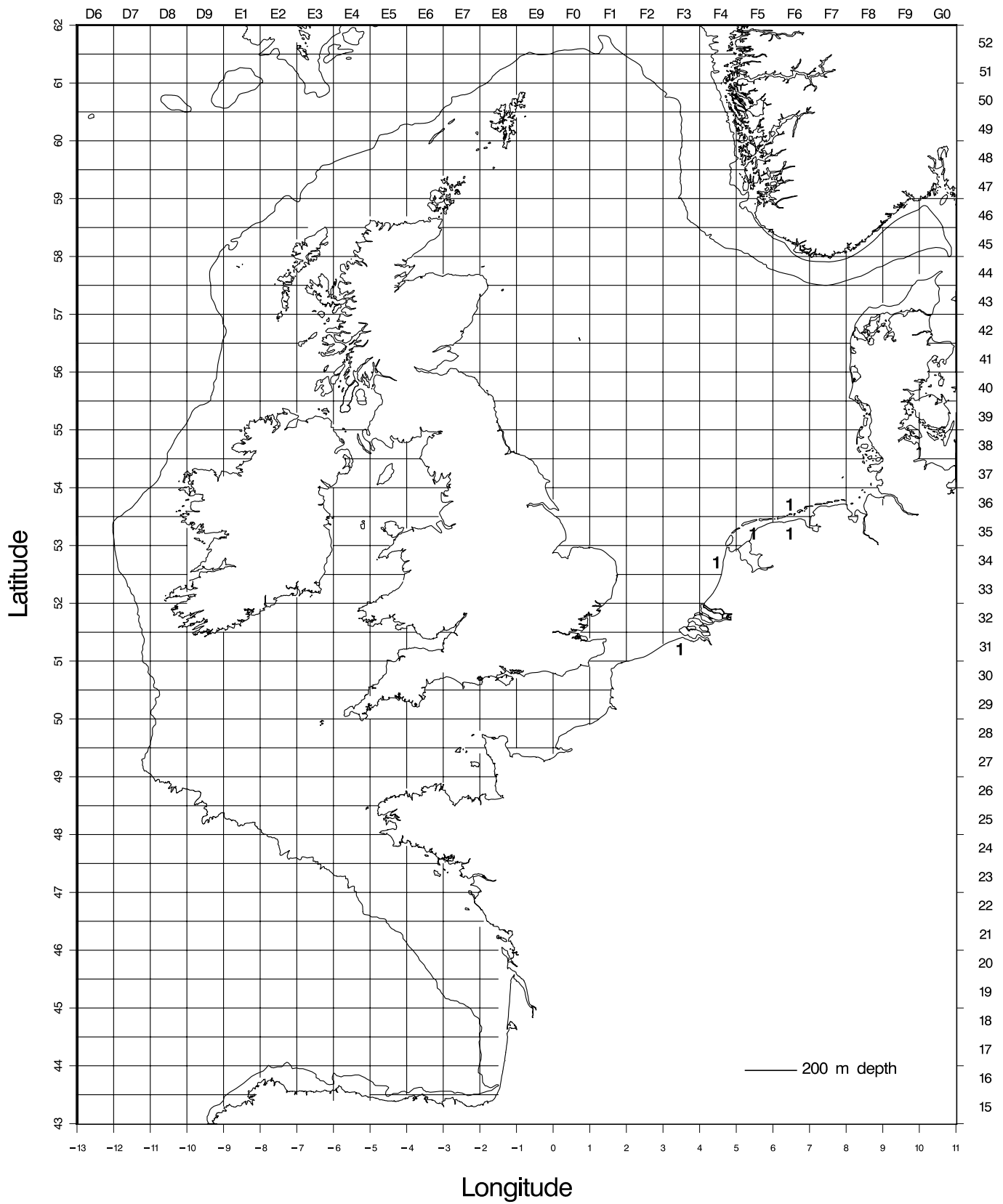


Figure 23b: Common shrimp quarter 2 2007
 Number of length samples of commercial catches per ICES rectangle

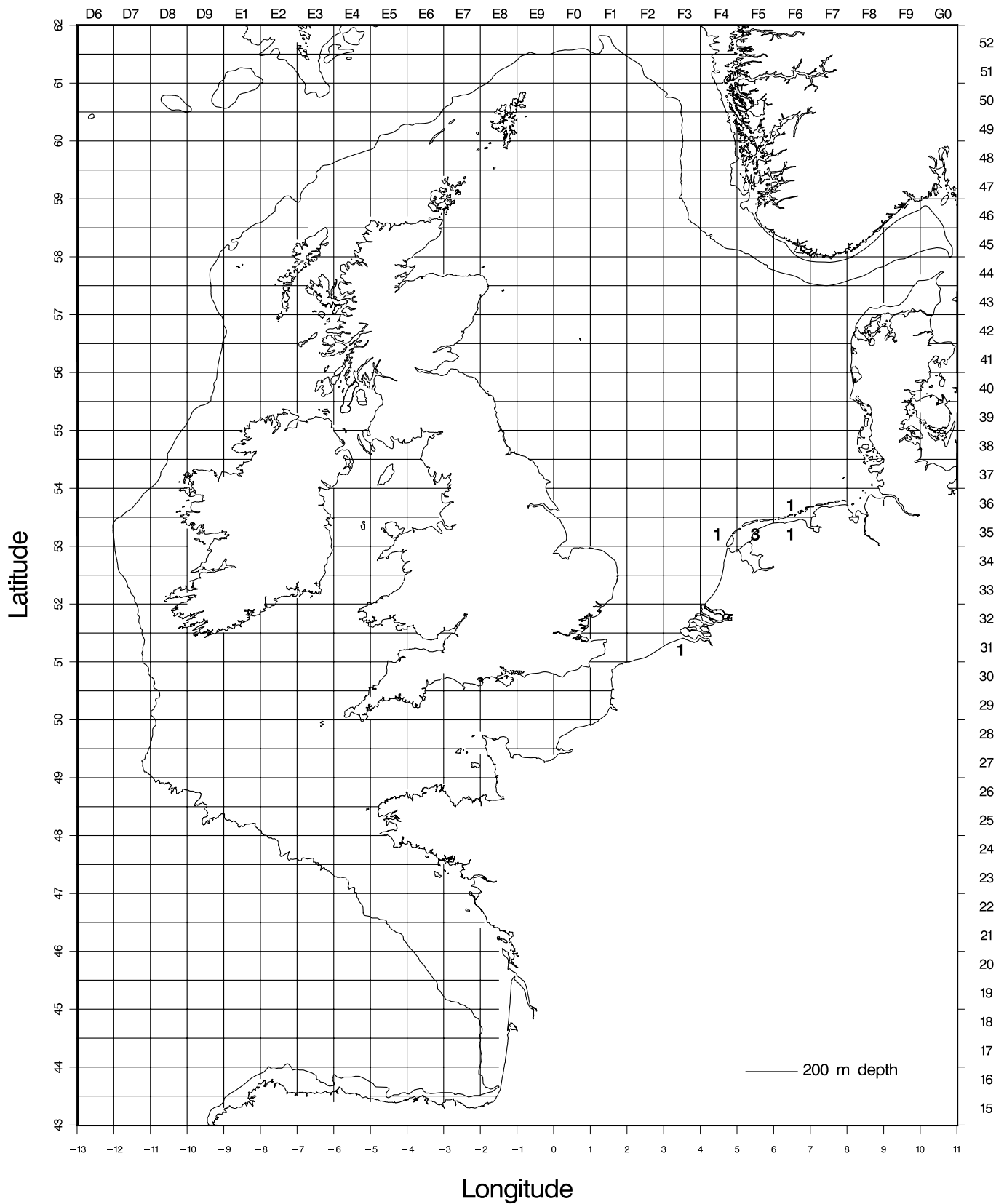


Figure 23c: Common shrimp quarter 3 2007
 Number of length samples of commercial catches per ICES rectangle

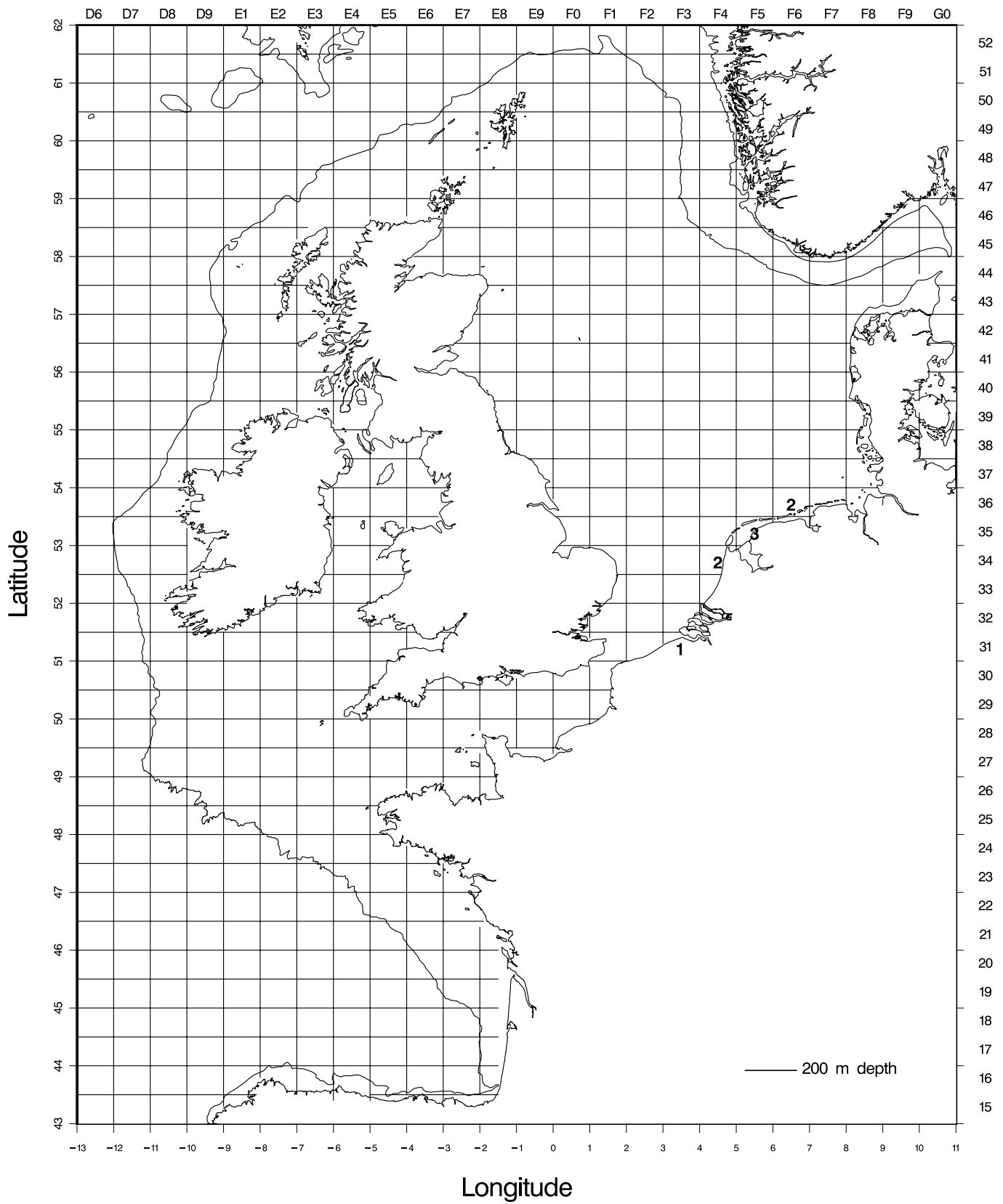


Figure 23d: Common shrimp quarter 4 2007
 Number of length samples of commercial catches per ICES rectangle