COMMISSION DECISION

of 18 December 2009

adopting a multiannual Community programme for the collection, management and use of data in the fisheries sector for the period 2011-2013

(notified under document C(2009) 10121)

(2010/93/EU)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union.

Having regard to Council Regulation (EC) No 199/2008 of 25 February 2008 concerning the establishment of a Community framework for the collection, management and use of data in the fisheries sector and support for scientific advice regarding the Common Fisheries Policy (1), and in particular Article 3(1) thereof,

Whereas:

- (1) Pursuant to Article 3(2) of Regulation (EC) No 199/2008, a multi-annual Community programme for the collection, management and use of data in the fisheries sector is to be drawn up for three-year periods. It is therefore necessary to establish the multiannual Community programme for the period 2011-2013.
- (2) The Communication from the Commission of 5 February 2009 on a European Community Action Plan for the Conservation and Management of Sharks (2) has recommended the collection of reliable and detailed species-specific quantitative and biological data concerning commercial fisheries involving catches of Chondrichthyans (hereinafter referred to as 'sharks'). In addition, regular catch monitoring of recreational fisheries involving catches of shark species is suggested.
- (3) On the basis of that Communication, the Scientific, Technical and Economic Committee for Fisheries (STECF) has recommended that data concerning such commercial fisheries and recreational fisheries be included in the list of fishing activity by region and in the list of biological variables for which data are to be collected.

- (4) The multi-annual Community programme for the period 2011-2013 should therefore provide for the collection, management and use of data on sharks in addition to the data already required in the programming period 2009-2010 under Commission Decision 2008/949/EC (3).
- (5) For reasons of legal certainty, Decision 2008/949/EC should be repealed with effect from 1 January 2011.
- (6) The measures provided for in this Decision are in accordance with the opinion of the Management Committee for Fisheries and Aquaculture,

HAS ADOPTED THIS DECISION:

Article 1

The multiannual Community programme for the collection, management and use of data in the fisheries sector for the period 2011-2013, as referred to in Article 3(1) of Regulation (EC) No 199/2008, is set out in the Annex.

Article 2

Decision 2008/949/EC is repealed with effect from 1 January 2011.

Article 3

This Decision is addressed to the Member States.

Done at Brussels, 18 December 2009.

For the Commission

Joe BORG

Member of the Commission

⁽¹⁾ OJ L 60, 5.3.2008, p. 1.

⁽²⁾ COM(2009) 40 final.

ANNEX

MULTI ANNUAL COMMUNITY PROGRAMME

CHAPTER I

Subject-matter and definitions

- 1. For the purpose of this Community Programme the following definitions shall apply:
 - (a) active vessels: vessels that have been engaged in any fishing operation (more than 0 days) during a calendar year. A vessel that has not been engaged in fishing operations during a year is considered 'inactive';
 - (b) **concurrent sampling:** sampling all or a predefined assemblage of species, simultaneously in a vessel's catches or landings;
 - (c) days at sea: any continuous period of 24 hours (or part thereof) during which a vessel is present within an area and absent from port;
 - (d) fleet segment: a group of vessels with the same length class (LOA) and predominant fishing gear during the year, according to the Appendix III. Vessels may have different fishing activities during the reference period, but might be classified in only one fleet segment;
 - (e) **fishing days:** each day is attributed to the area where the most fishing time was spent during the relevant day at sea. However, for passive gears, if no operation took place from the vessel during a day while at least one (passive) gear remained at sea, that day will be associated to the area where the last setting of a fishing gear was carried out on that fishing trip;
 - (f) **fishing trip:** means any voyage by a fishing vessel from a land location to a landing place, excluding non-fishing trips (a trip by a fishing vessel from a location to a land location during which it does not engage in fishing activities and during which any gear on board is securely lashed and stowed and not available for immediate use);
 - (g) **metier:** a group of fishing operations targeting a similar (assemblage of) species, using similar gear, during the same period of the year and/or within the same area and which are characterised by a similar exploitation pattern;
 - (h) **population of vessels:** all vessels in the Community Fishing Fleet Register as defined in Commission Regulation (EC) No 26/2004 (¹);
 - (i) **selected species**: species of relevance for management purposes and for which a request is made by an international scientific body or a regional fisheries management organisation;
 - (j) **soaking time:** time calculated from the point where each individual unit of gear has been set, to the time when the same unit starts to be removed.
- 2. For the following terms, the Food and Agriculture Organization of the United Nations (www.fao.org/fi/glossary/default.asp) and STECF definitions shall apply: anadromous species, catadromus species, catches, cephalopods, crustaceans, deep water species, demersal fish, demersal species, exploitation pattern, finfish, fresh water species, gears, landings, discards, large pelagic fish, molluscs, other activity than fishing, pelagic fish, small pelagic fish, target species.

⁽¹⁾ OJ L 5, 9.1.2004, p. 25.

CHAPTER II

Contents and Methodology

A. CONTENTS OF THE COMMUNITY PROGRAMME

The Community programme comprises of the following modules:

1. Module of evaluation of the fishing sector:

The data collection programme for the fishing sector contains the following sections:

- (a) section for the collection of economic variables;
- (b) section for the collection of biological variables;
- (c) section for the collection of transversal variables;
- (d) section for research surveys at sea.
- 2. Module of evaluation of the economic situation of the aquaculture and processing industry sectors:
 - (a) section for the collection of economic data for the aquaculture sector;
 - (b) section for the collection of economic data for the processing industry.
- 3. Module of evaluation of the effects of the fishing sector on the marine ecosystem
- 4. Module for management and use of the data covered by the data collection framework

B. PRECISION LEVELS AND SAMPLING INTENSITIES

- 1. Where it is not possible to define quantitative targets for sampling programmes, neither in terms of precision levels, nor in terms of sample size, pilot surveys in the statistical sense shall be established. Such pilot surveys shall evaluate the importance of the problem and shall also address the utility of future more detailed surveys, and the cost-effectiveness relationship of such detailed surveys.
- 2. Where quantitative targets can be defined, they may be specified either directly by sample sizes or sampling rates, or by the definition of the levels of precision and of confidence to be achieved.
- 3. Where reference is made to a sample size or to a sampling rate in a population defined in statistical terms, the sampling strategies shall be at least as efficient as Simple Random Sampling. Such sampling strategies shall be described within the corresponding National Programmes.
- 4. Where reference is made to precision/confidence level the following distinction shall apply:
 - (a) **Level 1:** level making it possible to estimate a parameter either with a precision of plus or minus 40 % for a 95 % confidence level or a coefficient of variation (CV) of 20 % used as an approximation;
 - (b) **Level 2:** level making it possible to estimate a parameter either with a precision of plus or minus 25 % for a 95 % confidence level or a coefficient of variation (CV) of 12,5 % used as an approximation;
 - (c) Level 3: level making it possible to estimate a parameter either with a precision of plus or minus 5 % for a 95 % confidence level or a coefficient of variation (CV) of 2,5 % used as an approximation.

CHAPTER III

Module of evaluation of the fishing sector

A. COLLECTION OF ECONOMIC VARIABLES

- 1. Variables
- 1. Variables to be collected are listed in Appendix VI. All economic variables are to be collected on an annual basis with the exception of those identified as transversal variables as defined in Appendix VIII and those identified in order to measure the effects of the fishery on the marine ecosystem as defined in Appendix XIII which are to be collected at more disaggregated levelsThe population is all vessels in the Community Fishing Fleet Register on the 1st of January. All economic variables have to be collected for active vessels. For each vessel for which economic variables defined in Appendix VII are collected, the corresponding transversal variables defined in Appendix VIII have also to be collected.
- 2. For inactive vessels only capital value (Appendix VI), fleet (Appendix VI) and capacity (Appendix VIII) shall be collected.
- 3. National currencies shall be transformed into Euro using the average annual exchange rates available from the European Central Bank (ECB).
- 2. Disaggregation levels
- Economic variables shall be reported for each fleet segment (Appendix III) and supra region (Appendix II). Six length classes (using the 'overall length' measurement (LOA)) are defined. However Member States are free to further disaggregate length classes if appropriate.
- 2. The dominance criteria shall be used to allocate each vessel to a segment based on the number of fishing days used with each gear. If a fishing gear is used by more than the sum of all the others (i.e. a vessel spends more than 50 % of its fishing time using that gear), the vessel shall be allocated to that segment. If not, the vessel shall be allocated to the following fleet segment:
 - (a) 'Vessels using Polyvalent active gears' if it only uses active gears;
 - (b) 'Vessels using Polyvalent passive gears' if it only uses passive gears;
 - (c) 'Vessels using active and passive gears'.
- In cases where a vessel operates in more than one supra region as defined in Appendix II, Member States shall explain in their national programme to which supra region the vessel is allocated.
- 4. In cases where a fleet segment has less than 10 vessels:
 - (a) clustering may be necessary in order to design the sampling plan and to report economic variables;
 - (b) Member States shall report which fleet segments have been grouped at the national level and shall justify the clustering on the basis of statistical analysis;
 - (c) in their annual report, Member States shall report the number of sampled vessels for each fleet segment regardless of any clustering made to collect or provide the data;
 - (d) Regional Coordination Meetings shall define homogeneous clustering methodology at the level of supra regions so that economic variables are comparable.
- 3. Sampling strategy
- Member States shall describe their methodologies used for estimating each economic variable, including quality aspects, in their national programmes.

- 2. Member States shall ensure consistency and comparability of all economic variables when derived from different sources (e.g. surveys, fleet register, logbooks, sales notes).
- 4. Precision levels
- 1. Member States shall include in their annual report information on the quality (accuracy and precision) of estimates.
- B. COLLECTION OF BIOLOGICAL VARIABLES

B1. Metier-related variables

- 1. Variables
- 1. Sampling must be performed in order to evaluate the quarterly length distribution of species in the catches, and the quarterly volume of discards. Data shall be collected by metier referred to as level 6 of the matrix defined in Appendix IV (1 to 5) and for the stocks listed in Appendix VII.
- Where relevant additional biological sampling programmes of the unsorted landings have to be carried out in order to estimate:
 - (a) the share of the various stocks in these landings for Herring in the Skagerrak IIIA-N, Kattegat IIIa-S, and Eastern North Sea separately and salmon in the Baltic Sea;
 - (b) the share of the various species for those groups of species that are internationally assessed, e.g. Megrims, Anglerfishes and elasmobranches.

2. Disaggregation level

- 1. In order to optimise the sampling programmes, the metiers defined in Appendix IV (1 to 5) may be merged. When metiers are merged (vertical merging), statistical evidence shall be brought regarding the homogeneity of the combined metiers. Merging of neighbouring cells corresponding to fleet segments of the vessels (horizontal merging) shall be supported by statistical evidence. Such horizontal merging shall be done primarily by clustering neighbouring vessel LOA classes, independently of the dominant fishing techniques, when appropriate to distinguish different exploitation patterns. Regional agreement on mergers shall be sought at the relevant Regional Coordination Meeting and endorsed by STECF.
- 2. At national level, one metier defined at level 6 of the matrix in Appendix IV (1 to 5) may be further disaggregated into several more precise strata, i.e. distinguishing different target species. Such further stratification shall be done respecting the two following principles:
 - (a) the strata defined at national level do not overlap the metiers defined in Appendix IV (1 to 5);
 - (b) the strata defined at national level must, in their entirety comprise of all the fishing trips of the metier defined at level 6.
- 3. The spatial units for metier sampling are defined by level 3 of Appendix I for all the regions with the following exceptions:
 - (a) the Baltic Sea (ICES areas III b-d), Mediterranean Sea and the Black Sea where the resolution shall be level 4;
 - (b) Regional Fisheries Management Organisations units, providing they are metier-based (in the absence of such definitions, Regional Fisheries Management Organisations shall proceed to appropriate mergers).
- 4. For the purpose of collection and aggregation of data, spatial sampling units may be clustered by regions as referred to in Article 1 of Commission Regulation (EC) 665/2008 (²) after agreement by the relevant Regional Co-ordination Meetings.
- 5. For parameters referred to in Chapter III section B/B1 1. (2), data shall be provided quarterly and be consistent with the fleet fishing activity matrix described in Appendix IV (1 to 5).

⁽²⁾ OJ L 186, 15.7.2008, p. 3.

- 3. Sampling strategy
- 1. For the landings:
 - (a) the Member State on whose territory the first sale take place, shall be responsible for ensuring that biological sampling occurs according to the standards defined in this Community Programme. If necessary, Member States shall co-operate with the authorities of non-EU third countries to set up biological sampling programmes for the landings carried out by vessels flying the third country's flag;
 - (b) for sampling purpose, only the major metiers need be considered. In order to identify the metiers to be sampled, the following ranking system shall be used at level 6 of the matrix in Appendix IV (1 to 5) on a national basis by Member States using as reference the average values of the 2 previous years and:
 - the metier cells shall first be ranked according to their share in the total commercial landings. The shares are then to be cumulated, starting with the largest, until a cut-off level of 90 % is reached. All metiers belonging to the top 90 % shall be selected for sampling,
 - the exercise shall then be repeated according to the total value of the commercial landings and repeated a third time according to the total effort in days-at-sea. The metiers in the top 90 % not belonging to the previous top 90 % shall be added to the selection,
 - STECF may add to the selection the metiers not picked up by the ranking system but of special importance in terms of management;
 - (c) the sampling unit shall be the fishing trip and the number of fishing trips to be sampled shall ensure good coverage of the metier;
 - (d) precision values and ranking system are referenced at the same level as the sampling programmes, i.e. at the national metier level for data that are collected through national programmes and at regional metier level for data that are collected through regionally coordinated sampling programmes;
 - (e) the sampling intensity shall be proportionate to the relative effort and variability in the catches of that metier. The minimum number of fishing trips to be sampled shall never be less than 1 fishing trip per month during the fishing season for fishing trips of less than 2 weeks and 1 fishing trip per quarter otherwise;
 - (f) when sampling a fishing trip, the species shall be sampled concurrently as follows:

Each species within a region as defined in Appendix II, shall be classified within a group according to the following rules:

- Group 1: Species that drive the international management process including species under EU management plans or EU recovery plans or EU long term multi-annual plans or EU action plans for conservation and management based on Council Regulation (EC) No 2371/2002 (3),
- Group 2: Other internationally regulated species and major non-internationally regulated by-catch species,
- **Group 3:** All other by-catch (fish and shellfish) species. The list of Group 3 species shall be established at the regional level by the relevant regional co-ordination meeting and agreed by STECF;
- (g) allocation of species to Group 1 and 2 is specified in Appendix VII. The choice of the sampling scheme shall depend on the diversity of species to sample and the operational conditions under which sampling takes place. The sampling design per metier must consider both the periodicity of the sampling events and the sampling scheme to apply. Possible sampling schemes, as described in the following table, comprise:

- Scheme 1: comprehensive sampling of all species,
- Scheme 2: within each time stratum, the sampling events are split in two parts. One part of the sampling events (x %) considers sampling of all species on shore whereas the other part of the sampling events (100 x %) considers only sampling of all Group 1 species,
- **Scheme 3:** within each time stratum, the sampling events are split in two parts. One part of the sampling events (x %) considers sampling of all Group 1 and Group 2 species on shore, whereas the other part of the sampling events (100 x %) considers only sampling of Group 1 species. In this scheme, Group 3 species have to be sampled at sea;

Table 1
Summary of the schemes to be used for concurrent sampling

Sampling scheme	Frequency	Group 1	Group 2	Group 3
Scheme 1	Every sampling event	✓	✓	✓
Scheme 2	x % of sampling events	✓	√	✓
	(100 – x) % of sampling events	✓		
Scheme 3	x % of sampling events	✓	✓	Sampling at sea
	(100 – x) % of sampling events	✓		

(h) for any given sample, the sampling scheme shall be recorded (Table 1) along with information on how complete the sampling is:

When sampling a species, the number of individuals measured must ensure quality and accuracy of resultant length frequency. The number of length classes within a sample may be estimated from the approximate length range within it and, from this, the number of fish measured shall lie between $3 \times 10^{12} \times 10^{12}$

- (i) other sampling procedures could be used on the condition that there is scientific evidence showing that these procedures will achieve the same objectives as the ones described in point 3(1)(g);
- a summary of the sampling protocols carried out by Member States shall be made available to STECF through the national programmes for each metier sampled.

2. For the discards:

- (a) the ranking system referred to in Chapter III section B/B1 3 (1) (b), shall be used to select the metiers in order to estimate discards. In any case, where discards of a given metier are estimated to exceed 10 % of the total volume of catches and this metier is not picked up by the ranking system this metier shall be sampled;
- (b) the sampling unit shall be the fishing trip and the number of fishing trips to be sampled shall ensure good coverage of the metier;
- (c) precision values and the ranking system are referenced at the same level as the sampling programmes, i.e. at the national metier level for data that are collected through national programmes and at regional metier level for data that are collected through regionally coordinated sampling programmes;
- (d) the sampling intensity shall be proportionate to the relative effort and/or the variability in catches of the metier. The minimum number of fishing trips to be sampled shall not be less than 2 fishing trips per quarter;

- (e) discards will be monitored for the Group 1, 2 and 3 species, defined in Chapter III section B/B1/3. (f), to estimate the quarterly average weight of discards. Furthermore:
 - discards must be the subject of a quarterly estimate of the length distributions when they represent on an annual basis, either more than 10 % of the total catches by weight or more than 15 % of the catches in numbers for the Group 1 and Group 2 species,
 - when discards take place for species length ranges which are not represented in the landings, age-reading
 must take place in accordance with the rules set out in Appendix VII;
- (f) where relevant, pilot surveys as referred to in Chapter II B (1) shall be carried out;
- (g) a summary of the sampling protocols carried out by Member States shall be made available to STECF through the national programmes for each metier sampled.

3. For the recreational fisheries:

- (a) for the recreational fisheries targeting the species listed in Appendix IV (1 to 5), Member States shall evaluate the quarterly weight of the catches;
- (b) where relevant, pilot surveys as referred to in Chapter II B (1) shall be carried out to estimate the importance of the recreational fisheries mentioned in point 3(3)(a).

4. Precision levels

- 1. For the landings:
 - (a) the precision level 2 shall be targeted at the stock level for both Group 1 and Group 2 species. If necessary, specific stock-based samples shall be added if metier-based sampling fails to provide the appropriate precision for length distributions at the stock level.

2. For the discards:

- (a) data related to quarterly estimates of discards length and age composition for Group 1 and Group 2 species must lead to a precision of level 1;
- (b) weight estimates of Group 1, 2 and 3 species must lead to a precision of level 1.
- 3. For the recreational fisheries:
 - (a) data related to annual estimates of the catches in volumes must lead to a precision of level 1.
- 5. Exemption rules
- If Member States can not reach levels of precision referred to in Chapter III section B/B1/4 2 (a) and (b) and 3(a) and (b), or only at excessive costs, they can obtain, based on STECF recommendation, derogation from the Commission to reduce the precision level, sampling frequency or to implement a pilot survey provided this request is fully documented and scientifically proven.

B2. Stock-related variables

- 1. Variables
- 1. For stocks listed in Appendix VII, the following variables have to be collected:
 - (a) individual information on age;
 - (b) individual information on length;

- (c) individual information on weight;
- (d) individual information on sex;
- (e) individual information on maturity;
- (f) individual information on fecundity;
- (g) using the sampling scheme provided in this Appendix VII.
- 2. The collection of all individual information referred to in paragraph (1) shall be associated with the corresponding information on space and time stratum.
- 3. For wild salmon stocks in the index rivers, as defined by ICES, running into the Baltic Sea III b-d, the following variables have to be collected:
 - (a) information on abundance of smolt;
 - (b) information on abundance of parr;
 - (c) information on number of ascending individuals.
- 2. Disaggregation level
- 1. The necessary disaggregation levels as well as the collection periodicity for all variables and the sampling intensities for age are specified in Appendix VII. For sampling strategies and sampling intensities, the rules established in Chapter II section B (Precision levels and sampling intensities) shall apply.
- 3. Sampling strategy
- 1. Wherever possible, age-reading shall be performed on commercial catches in order to estimate the age composition by species and, where relevant, the growth parameters. Where this is not possible, Member States shall justify why in their national programmes.
- 2. If cooperation between Member States ensures that the overall estimate of the parameters listed in Appendix VII reach the necessary precision level, each Member State shall ensure that its own contribution to the common dataset is sufficient to reach that precision level.
- 4. Precision levels
- 1. For stocks of species that can be aged, average weights and lengths for each age shall be estimated at a precision level 3, up to such an age that accumulated landings for the corresponding ages account for at least 90 % of the national landings for the relevant stock.
- 2. For stocks for which age reading is not possible, but for which a growth curve can be estimated, average weights and lengths for each pseudo age (e.g. derived from the growth curves) shall be estimated with a precision of level 2, up to such an age that accumulated landings for the corresponding ages account for at least 90 % of the national landings for the relevant stock.
- 3. For maturity, fecundity and sex ratios, a choice may be made between reference to age or length, provided that Members States which have to conduct the corresponding biological sampling, have agreed the following:
 - (a) for maturity and fecundity, calculated as proportion of mature fish, precision of level 3 must be achieved within the age and/or length range, the limits of which correspond to a 20 % and 90 % of mature fish;
 - (b) for sex ratio, calculated as proportion of females, precision of level 3 must be achieved, up to such an age or length that cumulated landings for the corresponding ages or lengths account for at least 90 % of the national landings for this stock.

- 5. Exemptions rules
- 1. The national programme of a Member State may exclude the estimation of the stock related variables for stocks for which TAC's and quota have been defined under the following conditions:
 - (a) the relevant quota must correspond to less than 10 % of the Community share of the TAC or to less than 200 tonnes on average during the previous three years;
 - (b) the sum of relevant quotas of Member States whose allocation is less than 10 %, must account for less than 25 % of the Community share of the TAC.
- 2. If the condition set out in above point 1(a) is fulfilled, but not the condition set out in point 1(b), the relevant Member States may set up a coordinated programme to achieve, for their joint landings, a joint sampling scheme, or Member States may individually set up other national sampling schemes leading to the same precision.
- 3. If appropriate, the national programmes may be adjusted until 1st February of each year to take into account the exchange of quotas between Member States:
- 4. For stocks for which TAC's and quotas have not been defined and which are outside the Mediterranean Sea, the same rules established under point 5(1) apply on the basis of the average landings of the previous three years and with reference to the total Community landings from a stock;
- 5. For stocks in the Mediterranean Sea, the landings by weight of a Mediterranean Member State for a species corresponding to less than 10 % of the total Community landings from the Mediterranean Sea, or to less than 200 tonnes, except for Bluefin tuna.
- C. COLLECTION OF TRANSVERSAL VARIABLES
- 1. Variables
- Variables to be collected are listed in Appendix VIII. Data shall be provided according to the periodicity stated in that Appendix.
- 2. Some delays may occur between information provided on the fleet segmentation and on the fishing effort.
- 2. Disaggregation level
- 1. The disaggregation level is given in Appendix VIII in accordance with the criteria defined in Appendix V.
- 2. The degree of aggregation shall correspond to the most disaggregated level required. A grouping of cells within this scheme may be made provided that an appropriate statistical analysis demonstrates its suitability. Such mergers must be approved by the relevant Regional Coordination Meeting.
- 3. Sampling strategy
- Wherever possible, transversal data shall be collected in an exhaustive way. Where this is not possible, Member States shall specify the sampling procedures within their national programmes.
- 4. Precision levels
- 1. Member States shall include in their annual report information on the quality (accuracy and precision) of the data.
- D. RESEARCH SURVEYS AT SEA
- 1. All surveys listed in Appendix IX shall be covered.
- 2. Member States shall guarantee within their national programmes, continuity with previous survey designs.
- 3. Notwithstanding points 1 and 2, Member States may propose a modification in the survey effort or sampling design, provided that this does not negatively affect the quality of the results. Acceptance by the Commission of any modification shall be conditional to STECF approval.

CHAPTER IV

Module of evaluation of the economic situation of the aquaculture and the processing industry sectors

- A. COLLECTION OF ECONOMIC DATA FOR THE AQUACULTURE SECTOR
- 1. Variables
- 1. All variables listed in Appendix X are to be collected on an annual basis per segment according to the segmentation set out in Appendix XI.
- 2. The statistical unit shall be the 'enterprise' defined as the lowest legal entity for accounting purposes.
- 3. The population shall refer to enterprises whose primary activity is defined according to the EUROSTAT definition under NACE Code 05.02: 'Fish Farming'.
- 4. National currencies shall be transformed into Euro using the average annual exchange rate available from the European Central Bank (ECB).
- 2. Disaggregation level
- 1. Data shall be segmented by species and technique for aquaculture, as mentioned in Appendix XI. Member States may further segment by size of enterprise or other relevant criteria, if necessary.
- 2. Collection of data for fresh water species is not mandatory. However, if this data is collected, Member States shall follow the segmentation set out in Appendix XI.
- 3. Sampling strategy
- 1. Member States shall describe their methodologies for estimating each economic variable, including quality aspects, in their national programmes.
- 2. Member States shall ensure consistency and comparability of all economic variables when derived from different sources (e.g. questionnaires, financial accounts).
- 4. Precision levels
- 1. Member States shall include in their annual report information on the quality (accuracy and precision) of estimates.
- B. COLLECTION OF ECONOMIC DATA CONCERNING THE PROCESSING INDUSTRY
- 1. Variables
- 1. All variables listed in Appendix XII are to be collected on an annual basis for the population.
- 2. The population shall refer to enterprises whose main activity is defined according to the EUROSTAT definition under NACE Code 15.20: 'Processing and preserving of fish and fish products'.
- 3. As a guideline, the national codes applied by Member States under Regulations (EC) No 852/2004 (4), (EC) No 853/2004 (5) and (EC) No 854/2004 (6) of the European Parliament and of the Council shall additionally be used as a means of cross checking and identifying enterprises classified under NACE code 15.20.
- 4. National currencies shall be transformed into Euro using the average annual exchange rate available from the European Central Bank (ECB).
- 2. Disaggregation level
- The statistical unit for collection of data shall be the 'enterprise' as defined as the lowest legal entity for accounting purposes.
- 2. For enterprises that carry out fish processing but not as a main activity, it is mandatory to collect the following data, in the first year of each programming period:

⁽⁴⁾ OJ L 139, 30.4.2004, p. 1. (5) OJ L 139, 30.4.2004, p. 55. (6) OJ L 139, 30.4.2004, p. 206.

- (a) number of enterprises;
- (b) the turnover attributed to fish processing.
- 3. Sampling strategy
- Member States shall describe their methodologies for estimating each economic variable, including quality aspects, in their national programmes.
- 2. Member States shall ensure consistency and comparability of all economic variables when derived from different sources (e.g. questionnaires, financial accounts).
- 4. Precision levels
- 1. Member States shall include in their annual report information on the quality (accuracy and precision) of estimates.

CHAPTER V

Module of evaluation of the effects of the fisheries sector on the marine ecosystem

- 1. Variables
- 1. To allow the calculation of the indicators listed in Appendix XIII, data specified in this Appendix shall be collected on an annual basis with the exception of those which are specified to be collected at more disaggregated levels.
- 2. Data specified in Appendix XIII shall be collected at national level in order to allow end-users to calculate the indicators at the relevant geographical scale, as given in Appendix II.
- 2. Disaggregation level
- 1. The disaggregation level set out in the specifications laid down in Appendix XIII shall be applied.
- Sampling strategy
- 1. Member States shall apply the recommendations set out in the specifications laid down in Appendix XIII.
- 4. Precision levels
- 1. Member States shall apply the recommendations set out in the specifications laid down in Appendix XIII.

CHAPTER VI

Module for management and use of the data covered by the data collection framework

- A. MANAGEMENT OF THE DATA
- 1. With regard to the data covered by this Community Programme, this section covers the development of data bases, data input (storage), data quality control and validation, and data processing from primary data into detailed or aggregated data as referred to in Article 17(1) of Regulation (EC) No 199/2008.
- It shall include the transformation process of the primary socio-economic data into metadata referred to in Article 13(b) of Regulation (EC) No 199/2008.
- 3. Member States shall guarantee that, upon request by the Commission, the information on the transformation process referred to in paragraph 2 can be provided.
- B. USE OF THE DATA
- 1. The section covers the production of sets of data and their use to support scientific analysis as a basis for advice to fisheries management as referred to in Article 18(1)a of Regulation (EC) No 199/2008.
- It shall include biological parameter estimates (age, weight, sex, maturity and fecundity) for stocks listed in Appendix VII, preparation of sets of data for stock assessments and bio-economic modelling and corresponding scientific analysis.

 $\label{the entropy density of the entropy of the$

	I.C.E.S.	N.A.F.O	I.C.C.A.T	G.F.C.M.	C.C.A.M.L.R.	IOTC	Other
Level 1	Area	Area	FAO Area	Area	Area	FAO Area	FAO Area
				e.g. 37	e.g. 48		
				Mediterra- nean and Black sea			
Level 2	Sub-area	Sub-area	FAO Sub-area	Sub-area	Sub-area	FAO Sub-area	FAO Sub-area
	e.g. 27.IV	e.g. 21.2		e.g. 37.1	e.g. 48.1		
	North Sea	Labrador		Western	Antarctic Peninsula		
Level 3	Division	Division	Division	Division	Division	Division	Division
	e.g. 27.IV c	e.g. 21.2 H	5° × 5°	e.g. 37.1.2	e.g. 58.5.1	5° × 5°	5° × 5°
				Gulf of Lions	Kerguelen islands		
Level 4	Subdivision			GSA			
	e.g. 27.III.c.22			e.g. GSA 1			
Level 5	Rectangle	Rectangle	Rectangle		Rectangle	Rectangle	Rectangle
	30' × 1°		1° × 1°		30' × 1°	1° × 1°	1° × 1°

Appendix II

Geographical stratification by Region

	Sub-region/Fishing ground (1)	Region	Supra region
Level	1	2	3
	Cluster of spatial units on level 4 as defined in Appendix I (ICES subdivision)	Baltic Sea (ICES areas III b-d)	Baltic Sea (ICES areas III b-d), North Sea (ICES areas IIIa, IV and VIId) and Eastern Arctic (ICES areas I and II), and North Atlantic (ICES areas
	Cluster of spatial units on level 3 as defined in Appendix I (ICES Division)	North Sea (ICES areas IIIa, IV and VIId) and Eastern Arctic (ICES areas I and II)	V-XIV and NAFO areas).
	Cluster of spatial units on level 3 as defined in Appendix I (ICES/NAFO Division)	North Atlantic (ICES areas V-XIV and NAFO areas)	
	Cluster of spatial units on level 4 as defined in Appendix I (GSA)	Mediterranean Sea and Black Sea	Mediterranean Sea and Black Sea
	RFMO's sampling Sub-areas (except GFCM)	Other regions where fisheries are operated by EU vessels and managed by RFMO's to which the Community is contracting party or observer (e.g. ICCAT, IOTC, CECAF)	Other regions

⁽¹⁾ Sub-regions or fishing grounds are established by Member States for the first programming period (2009-2010); they may be redefined by Regional Coordination Meetings and agreed by STECF if necessary. This level should be consistent with existing geographical divisions.

Appendix III

Fleet segmentation by Region

				Length classes (LOA) (¹)			
		0-< 10 m 0-< 6 m		12-< 18 m	18-< 24 m	24-< 40 m	40 m or larger
Active Vessels		•	•				
Using 'Active' gears	Beam trawlers						
	Demersal trawlers and/or demersal seiners						
	Pelagic trawlers						
	Purse seiners						
	Dredgers						
	Vessel using other active gears						
	Vessels using Polyvalent 'active' gears only						
Using 'Passive' gears	Vessels using hooks	(2)	(2)				
	Drift and/or fixed netters						
	Vessels using Pots and/or traps	7					
	Vessels using other Passive gears	7					
	Vessels using Polyvalent 'passive' gears only	7					
Using Polyvalent gears	Vessels using active and passive gears						
Inactive vessels							

⁽¹) For vessels less than 12 metres in the Mediterranean Sea and the Black sea, the length categories are 0-< 6, 6-< 12 metres. For all other regions, the length categories are defined as 0-< 10, 10-< 12 metres. (²) Vessels less than 12 metres using passive gears in the Mediterranean Sea and the Black Sea may be disaggregated by gear type.

Appendix IV

Fishing activity (metier) by Region

(1) Baltic Sea (ICES Subdivisions 22-32)

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	isses (n	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 & +
	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Crustaceans	(b)						
			[]	Demersal fish	(b)						
				Small pelagic fish	(b)						
				Freshwater species	(b)						
			Multi-rig otter trawl [OTT]	Crustaceans	(b)						
				Demersal fish	(b)						
				Small pelagic fish	(b)						
			Bottom pair trawl [PTB]	Demersal fish	(b)						
⁄ity				Small pelagic fish	(b)						
Fishing activity				Freshwater species	(b)						
ïE		Pelagic trawls	Midwater otter trawl [OTM]	Demersal fish	(b)						
				Small pelagic fish	(b)						
				Freshwater species	(b)						
			Midwater pair trawl [PTM]	Demersal fish	(b)						
				Small pelagic fish	(b)						
				Freshwater species	(b)						
	Hooks and Lines	Rods and Lines	Hand and Pole lines [LHP] [LHM]	Finfish	(b)						
		Longlines	Drifting longlines [LLD]	Small pelagic fish	(b)						
			,	Anadromous species	(b)						



Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	asses (m	n)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 & +
			Set longlines [LLS]	Demersal fish	(b)						
			[LL3]	Small pelagic fish	(b)						
				Freshwater species	(b)						
				Anadromous species	(b)						
				Catadromous species	(b)						
	Traps	Traps	Pots and Traps [FPO] (c)	Demersal fish	(b)						
			[110]()	Small pelagic fish	(_p)						
				Freshwater species	(b)						
				Anadromous species	(b)						
				Catadromous species	(b)						
			Fyke nets [FYK] (°)	Demersal fish	(b)						
			[11K]()	Small pelagic fish	(b)						
				Freshwater species	(b)						
				Anadromous species	(b)						
				Catadromous species	(b)						
			Stationary uncovered	Demersal fish	(b)						
			pound nets [FPN]	Small pelagic fish	(b)						
				Freshwater species	(b)						
				Anadromous species	(b)						
				Catadromous species	(b)						
	Nets	Nets		Demersal fish	(b)						
			GIN	Small pelagic fish	(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	asses (n	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 & +
				Freshwater species	(b)						
			Set gillnet [GNS]	Demersal fish	(b)						
				Small pelagic fish	(b)						
				Freshwater species	(b)						
				Anadromous species	(b)						
				Catadromous species	(b)						
	Seines	Surroundi- ng nets	Purse seine [PS]	Small pelagic fish	(b)						
		Seines	Fly shooting seine [SSC]	Demersal fish	(b)						
			seine [SSC]	Freshwater species	(b)						
			Anchored seine [SDN]	Demersal fish	(b)						
			. ,	Small pelagic fish	(b)						
			Pair seine [SPR]	Demersal fish	(b)						
			Beach and boat seine [SB] [SV]	Finfish	(b)						
	Fishing a	ctivity missing	g information	Fishing activity missing information							
	Other act	ivity than fish	ing	Other activity than fishing							
	:	Inactive	Inactive								
	Recreat	tional fisheries	;	Only for these species: Salmon, Cod, Eels, Sharks	Not applic- able	All v	essel c	lasses	(if any) coml	oined
			-								

⁽⁴⁾ The retained part of the catch should be classified by target assemblage (crustaceans, demersal fish, etc.) at a trip level or at a fishing operation level when possible, and sorted by weight or by total value in the case of valuable species (e.g. Nephrops, shrimps). The target assemblage that comes up at the first position should be considered as the target assemblage to be reported in the matrix.

(b) As defined in Council Regulations (EC) No 88/98 (OJ L 9, 15.1.1998, p. 1) and (EC) No 2187/2005 (OJ L 349, 31.12.2005, p. 1).

(c) Including eel in the management units as specified in Council Regulation (EC) No 1100/2007 (OJ L 248, 22.9.2007, p. 17).

Remark:

Where relevant, pilot studies shall be carried out to establish protocols for the monitoring of inland eel fisheries.

(2) North Sea (ICES areas IIIa, IV and VIId) and Eastern Arctic (ICES areas I and II)

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	asses (n	n)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
	Dredges	Dredges	Boat dredge [DRB]	Molluscs	(b)						
			Mechanised/ Suction dredge [HMD]	Molluscs	(b)						
	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Molluscs	(b)						
				Crustaceans	(b)						
				Demersal fish	(b)						
				Mixed crust- aceans and demersal fish	(b)						
				Mixed cephalopods and demersal fish	(_p)						
Fishing activity			Small pelagic fish	(b)							
				Deep-water species	(b)						
Fishing				Mixed pelagic and demersal fish	(b)						
				Mixed demersal and deep water species	(b)						
			Multi-rig otter trawl [OTT]	Molluscs	(b)						
			iluwi [O11]	Crustaceans	(b)						
				Demersal fish	(b)						
				Deep-water species	(b)						
				Mixed crust- aceans and demersal fish	(b)						
		Bottom trawl f		Mixed pelagic and demersal fish	(b)						
			Bottom pair trawl [PTB]	Demersal fish	(b)						
				Crustaceans	(b)						
				Small pelagic fish	(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	asses (n	n)		
Activity	Gear classes	Gear groups	Gear type	Target assemblage (a)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+	
			Beam trawl [TBB]	Crustaceans	(b)							
			[IDD]	Demersal fish	(b)							
				Mixed crust- aceans and demersal fish	(b)							
		Pelagic trawls	Midwater otter trawl [OTM]	Small pelagic fish	(p)							
			[]	Demersal fish	(b)							
			Midwater pair trawl [PTM]	Small pelagic fish	(b)							
				Demersal fish	(b)							
	Hooks and Lines	Rods and Lines	Hand and Pole lines [LHP] [LHM]	Finfish	(b)							
		Longlines	Set longlines [LLS]	Demersal fish	(b)							
	Traps	Traps (°)	Pots and	Molluscs	(b)							
		Traps [FPO]	Crustaceans	(b)								
					Finfish	(b)						
			Fyke nets [FYK]	Catadromous species	(b)							
	Nets	Nets	Trammel net [GTR]	Demersal fish	(b)							
			Set gillnet [GNS]	Small pelagic fish	(b)							
				Demersal fish	(b)							
				Crustaceans	(b)							
			Driftnet [GND]	Small pelagic fish	(b)							
				Demersal fish	(b)							
	Seines	Surrounding nets	Purse seine [PS]	Small pelagic fish	(b)							
		Seines	Fly shooting seine [SSC]	Demersal fish	(b)							
			Anchored seine [SDN]	Demersal fish	(b)							
			Pair seine [SPR]	Demersal fish	(b)							

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	ısses (n	n)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
			Beach and boat seine [SB] [SV]	Finfish	(b)						
	Other gear	Other gear	Glass eel fishing	Glass eel	(b)						
	Misc.	Misc.			(b)						
	Other a	ctivity than fishing	3	Other activity than fishing							
		Inactive		Inactive							
	Recre	eational fisheries		Only for these species: Cod, Eels, Sharks	Not applic- able	All	vesse bined	el cl	asses	(if	any)

⁽a) The retained part of the catch should be classified by target assemblage (crustaceans, cephalopods, demersal fish, etc.) at a trip level or at a fishing operation level when possible, and sorted by weight or by total value in the case of valuable species (e.g. Nephrops, Tunas). The target assemblage that comes up at the first position should be considered as the target assemblage to be reported in the matrix.

(b) As defined in Council Regulations (EEC) No 1899/85 (OJ L 179, 11.7.1985, p. 2), (EEC) No 1638/87 (OJ L 153, 13.6.1987, p. 7), (EC) No 850/98 (OJ L 125, 27.4.1998, p. 1), Commission Regulations (EC) No 2056/2001 (OJ L 277, 20.10.2001, p. 13), (EC) No 494/2002 (OJ L 77, 20.3.2002, p. 8) and Council Regulation (EC) No 40/2008 (OJ L 19, 23.1.2008, p. 1).

(c) Including eel in the management units as specified in Regulation (EC) No 1100/2007.

Remark:

Where relevant, pilot studies shall be carried out to establish protocols for the monitoring of inland eel fisheries.

(3) North Atlantic (ICES areas V-XIV and NAFO areas)

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	OA cla	sses (m)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
	Dredges	Dredges	Boat dredge [DRB]	Molluscs	(b)						
			Mechanised/ Suction dredge [HMD]	Molluscs	(b)						
vity	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Molluscs	(b)						
Fishing activity		trawis	tiawi [OID]	Crustaceans	(b)						
Fishir				Demersal fish	(b)						
				Mixed crust- aceans and demersal fish	(b)						
				Mixed cephalopods and demersal fish	(b)						
				Small pelagic fish	(_p)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	isses (m	1)		
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+	
				Deep-water species	(b)							
				Mixed pelagic and demersal fish	(b)							
				Mixed demersal and deep water species	(b)							
			Multi-rig otter trawl [OTT]	Molluscs	(b)							
			uawi [O11]	Crustaceans	(b)							
				Demersal fish	(b)							
				Deep-water species	(b)							
				Mixed crust- aceans and demersal fish	(b)							
				Mixed pelagic and demersal fish	(b)							
			Bottom pair trawl [PTB]	Demersal fish	(b)							
			trawi [PIB]	trawr [r rb]	Crustaceans	(b)						
				Small pelagic fish	(b)							
			Beam trawl [TBB]	Crustaceans	(b)							
			. 1	Demersal fish	(b)							
				Mixed crust- aceans and demersal fish	(b)							
				Mixed demersal and cephalopods	(b)							
		Pelagic trawls	Midwater otter trawl [OTM]	Small pelagic fish	(b)							
				Demersal fish	(b)							
			Midwater pair trawl [PTM]	Small pelagic fish	(b)							
				Large pelagic fish	(b)							
				Demersal fish	(b)							

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	isses (m	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
	Hooks and Lines	Rods and Lines	Hand and Pole lines [LHP]	Finfish	(_p)						
	Lines	Lines	[LHM]	Cephalopods	(p)						
			Trolling lines [LTL]	Large pelagic fish	(b)						
		Longlines	Drifting longlines [LLD]	Large pelagic fish	(b)						
			[EBD]	Demersal fish	(b)						
				Deep-water species	(b)						
			Set longlines [LLS]	Deep-water species	(b)						
				Demersal fish	(b)						
	Traps	Traps (°)	Pots and Traps [FPO]	Molluscs	(b)						
			[110]	Crustaceans	(b)						
				Finfish	(_p)						
			Fyke nets [FYK]	Catadromous species	(b)						
		-		Demersal species	(b)						
			Stationary uncovered pound nets [FPN]	Large pelagic fish	(b)						
	Nets	Nets	Trammel net [GTR]	Demersal fish	(b)						
			Set gillnet [GNS]	Small pelagic fish	(b)						
				Demersal fish	(p)						
				Crustaceans	(_p)						
				Deep-water species	(b)						
			Driftnet [GND]	Small pelagic fish	(b)						
				Demersal fish	(b)						
	Seines	Surrounding nets	Purse seine [PS]	Small pelagic fish	(b)						
				Large pelagic fish	(b)						
		Seines	Fly shooting seine [SSC]	Demersal fish	(b)						
			Anchored seine [SDN]	Demersal fish	(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	isses (n	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
			Pair seine [SPR]	Demersal fish	(b)						
			Beach and boat seine [SB] [SV]	Finfish	(b)						
	Other gear	Other gear	Glass eel fishing	Glass eel	(b)						
	Misc.	Misc.			(b)						
	Other act	ivity than fish	ing	Other activity than fishing							
		Inactive		Inactive							
	Recreational fisheries				Not applic- able	All v	ressel c	lasses	(if any) coml	bined

⁽a) The retained part of the catch should be classified by target assemblage (crustaceans, cephalopods, demersal fish, etc.) at a trip level or at a fishing operation level when possible, and sorted by weight or by total value in the case of valuable species (e.g. Nephrops, Tunas). The target assemblage that comes up at the first position should be considered as the target assemblage to be reported in the matrix.
(b) As defined in Regulation (EC) No 850/1998, Council Regulation (EC) No 2549/2000 (OJ L 292, 21.11.2000, p. 5), Regulations (EC) No 2056/2001, (EC) No 494/2002, Council Regulation (EC) No 1386/2007 (OJ L 318, 5.12.2007, p. 1) and Regulation (EC)

Where relevant, pilot studies shall be carried out to establish protocols for the monitoring of inland eel fisheries.

(4) Mediterranean Sea and Black Sea

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	isses (m	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	9>	6- <12	12- <18	18- <24	24- <40	40 &+
	Dredges	Dredges	Boat dredge [DRB]	Molluscs	(_p)						
tivity	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Demersal species	(_p)						
Fishing activity				Deep water species	(_p)						
н				Mixed demersal species and deep water species (°)	(b)						
			Multi-rig otter trawl [OTT]	Demersal species	(_p)						

No 40/2008.

 $^{(^{\}circ})$ Including eel in the management units as specified in Regulation (EC) No 1100/2007.



Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	LOA cla	asses (m	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	9>	6- <12	12- <18	18- <24	24- <40	40 &+
			Bottom pair trawl [PTB]	Demersal species	(b)						
			Beam trawl [TBB]	Demersal species	(b)						
		Pelagic trawls	Midwater otter trawl [OTM]	Mixed demersal and pelagic species	(b)						
			Pelagic pair trawl [PTM]	Small pelagic fish	(_p)						
	Hooks and Lines	Rods and Lines	Hand and Pole lines [LHP]	Finfish	(b)						
	Lines	Lines	[LHM]	Cephalopods	(b)						
			Trolling lines [LTL]	Large pelagic fish	(b)						
		Longlines	Drifting longlines [LLD]	Large pelagic fish	(b)						
			Set longlines [LLS]	Demersal fish	(b)						
	Traps	Traps (^d)	Pots and Traps [FPO]	Demersal species	(b)						
			Fyke nets [FYK]	Catadromous species	(b)						
				Demersal species	(b)						
			Stationary uncovered pound nets [FPN]	Large pelagic fish	(_p)						
	Nets	Nets	Trammel net [GTR]	Demersal species	(b)						
			Set gillnet [GNS]	Small and large pelagic fish	(b)						
				Demersal species	(b)						
			Driftnet [GND]	Small pelagic fish	(b)						
				Demersal fish	(b)						
	Seines	Surrounding nets	Purse seine [PS]	Small pelagic fish	(_p)						
				Large pelagic fish	(_p)						
			Lampara nets [LA]	Small and large pelagic fish	(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		I	.OA cla	isses (n	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	9>	6- <12	12- <18	18- <24	24- <40	40 &+
		Seines	Fly shooting seine [SSC]	Demersal species	(b)						
			Anchored seine [SDN]	Demersal species	(b)						
			Pair seine [SPR]	Demersal species	(b)						
			Beach and boat seine [SB] [SV]	Demersal species	(b)						
	Other gear	Other gear	Glass eel fishing	Glass eel	(b)						
	Misc.	Misc.			(b)						
	Other acti	ivity than fish	ing	Other activity than fishing							
]	Inactive		Inactive							
	Recreat	ional fisheries		Only for these species: Bluefin tuna, Eels, Sharks	Not applic- able	All v	ressel c	lasses	(if any) coml	oined

⁽e) The retained part of the catch should be classified by target assemblage (crustaceans, cephalopods, demersal fish, etc.) at a trip level or at a fishing operation level when possible, and sorted by weight or by total value in the case of valuable species (e.g. Nephrops, Tunas). The target assemblage that comes up at the first position should be considered as the target assemblage to be reported in the matrix.

Where relevant, pilot studies shall be carried out to establish protocols for the monitoring of inland eel fisheries.

(5) Other regions where fisheries are operated by EU vessels and managed by RFMO's to which the Community is contracting party or observer (e.g. ICCAT, IOTC, CECAF ...)

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	ısses (n	1)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
Α.	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Crustaceans	(b)						
Fishing activity			[]	Demersal fish	(b)						
Fishing				Mixed cephalopods and demersal fish	(^b)						
			Multi-rig otter trawl [OTT]	Crustaceans	(b)						

⁽b) As defined in Council Regulation (EC) No 1967/2006 (OJ L 409, 30.12.2006, p.11).

 ⁽e) Referring only to red shrimps Aristaeomorpha foliacea and Aristeus antennatus, species not included in the definition of deep sea species given by Council Regulation (EC) No 2347/2002 (OJ L 351, 28.12.2002, p. 6).
 (d) Including eel in the management units as specified in Regulation (EC) No 1100/2007.

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		L	OA cla	isses (n	n)	
Activity	Gear classes	Gear groups	Gear type	Target assemblage (ª)	Mesh size and other selective devices	<10	10- <12	12- <18	18- <24	24- <40	40 &+
		Pelagic trawls	Midwater otter trawl [OTM]	Small pelagic fish	(b)						
	Hooks and Lines	Rods and Lines	Hand and Pole lines [LHP]	Large pelagic fish	(b)						
			[LHM]	Demersal fish	(_p)						
		Longlines	Drifting longlines [LLD]	Large pelagic fish	(b)						
			Set longlines [LLS]	Demersal fish	(b)						
	Traps		Pots and Traps	Crustaceans	(_p)						
			[FPO]	Finfish	(p)						
	Nets	Nets	Trammel net [GTR]	Demersal fish	(b)						
			Set gillnet [GNS]	Demersal fish	(b)						
			Driftnet [GND]	Demersal fish	(b)						
	Seines	Surrounding nets	Purse seine [PS]	Small pelagic fish	(b)						
				Large pelagic fish	(b)						
	Misc. Misc.				(p)						
	Other ac	tivity than fishii	ng	Other activity than fishing							
		Inactive		Inactive							

⁽a) The retained part of the catch should be classified by target assemblage (crustaceans, cephalopods, demersal fish, etc.) at a trip level or at a fishing operation level where possible, and sorted by weight or by total value in the case of valuable species (e.g. Nephrops, Tunas). The target assemblage that comes up at the first position should be considered as the target assemblage to be reported in the matrix.

(b) As defined in Council Regulations (EC) No 600/2004 (OJ L 97, 1.4.2004, p. 1), (EC) No 830/2004 (OJ L 127, 29.4.2004, p. 31), (EC) No 115/2006 (OJ L 21, 25.1.2006, p. 1), (EC) No 563/2006 (OJ L 105, 13.4.2006, p. 33), (EC) No 764/2006 (OJ L 141, 29.5.2006, p. 1), (EC) No 805/2006 (OJ L 151, 6.6.2006, p. 1), (EC) No 1562/2006 (OJ L 290, 20.10.2006, p. 1), (EC) No 1801/2006 (OJ L 343, 8.12.2006, p. 1), (EC) No 2027/2006 (OJ L 414, 30.12.2006, p. 1), (EC) No 450/2007 (OJ L 109, 26.4.2007, p. 1), (EC) No 753/2007 (OJ L 172, 30.6.2007, p. 1), (EC) No 893/2007 (OJ L 205, 7.8.2007, p. 1), (EC) No 894/2007 (OJ L 205, 7.8.2007, p. 35), (EC) No 1386/2007 (OJ L 318, 5.12.2007, p. 1), (EC) No 1446/2007 (OJ L 331, 17.12.2007, p. 1), (EC) No 31/2008 (OJ L 15, 18.1.2008, p. 1), (EC) No 241/2008 (OJ L 75, 18.3.2008, p. 49) and (EC) No 242/2008 (OJ L 75, 18.3.2008, p. 51).

Appendix V

Disaggregation levels used for the collection of data

		Sub regions or fishing grounds	Regions	Supra regions
		1	2	3
Metier*Fleet segment (Cell)	A	A1	A2	A3
Metier	В	B1	В2	В3
Fleet segment	С	C1	C2	C3

Remark

Considering the place where the fishing activity occurs could refer to sub regions, regions or supra regions the appendix summarises the different levels for the collection of data (or disaggregation levels).

Appendix VI

List of Economic variables

Variable group	Variable	Specification for the collection of data (¹)	Unit	Definition Structural Business Statistics (SBS) Commission Regulation (EC) No 2700/98 (²)	Guideline
Income	Gross value of landings	Transversal	Euro	12 11 0 excl. para 4	
	Income from leasing out quota or other fishing rights		Euro	12 11 0 excl. para 4	
	Direct subsidies (3)		Euro	12 11 0 excl. para 4	
	Other income (4)		Euro	12 11 0 excl. para 4	
Personnel costs	Wages and salaries of crew (5)		Euro	13 31 0	
	Imputed value of unpaid		Euro	13 32 0	
	labour (6)		Euro		
Energy costs	Energy costs (7)		Euro	20 11 0 (13 11 0)	
Repair and maintenance costs	Repair and maintenance costs (8)		Euro	(13 11 0)	ESA (9) 3.70. e) (1) (2)
Other operational	Variable costs (10)		Euro	(13 11 0)	
costs	Non-variable costs (11)		Euro	(13 11 0)	
	Lease/rental payments for quota or other fishing rights		Euro	(13 11 0)	
Capital costs	Annual depreciation (12)		Euro		ESA 6.02. to 6.05.
Capital value	Value of physical capital: depreciated replacement value (13)		Euro		ESA 7.09. to 7.24
	Value of physical capital: depreciated historical value (13)		Euro		ESA 7.09. to 7.24
	Value of quota and other fishing rights (14)		Euro		ESA 7.09. to 7.24
Investments	Investments in physical capital (15)		Euro	15 11 0	ESA 3.102. to 3.111.
Financial position	Debt/asset ratio (16)		%		
Employment	Engaged crew (17)		Number	16 11 0; 16 13 0; 16 13 1; 16 13 2 16 13 5; 16 14 0 16 15 0	ESA 11.32. to 11.34
	FTE National (18)		Number	16 11 0; 16 13 0 16 13 1; 16 13 2 16 13 5; 16 14 0 16 15 0	ESA 11.32. to 11.34
	FTE harmonised (19)		Number	16 11 0; 16 13 0 16 13 1; 16 13 2 16 13 5; 16 14 0 16 15 0	ESA 11.32. to 11.34

Variable group	Variable	Specification for the collection of data (¹)	Unit	Definition Structural Business Statistics (SBS) Commission Regulation (EC) No 2700/98 (²)	Guideline
Fleet	Number	Transversal	Number	N/A	N/A
	Mean LOA	Transversal	Metres	N/A	N/A
	Mean vessel's tonnage	Transversal	GT	N/A	N/A
	Mean vessel's power	Transversal	kW	N/A	N/A
	Mean age	Transversal	Years	N/A	N/A
Effort	Days at sea	Transversal	Days	N/A	N/A
	Energy consumption		Litres	N/A	N/A
Number of fishing enterprises/units	Number of fishing enterprises/ units (²⁰)	By size category: 1. owned vessel 2. 2-5 owned vessels 3. > 5 owned vessels	Number	N/A	N/A
Production value	Value of landings per species	Transversal	Euro	N/A	N/A
per species	Average price per species (21) Transversal Euro/kg N/A				N/A

- (1) Economic variables are to be collected on an annual basis at the C3 level (Appendix V) with the exception of those identified as transversal variables and collected at more disaggregated levels (as defined in the Appendix VIII) and periodicity.
- (2) OJ L 344, 18.12.1998, p. 49.
- (3) Includes direct payments, e.g., compensation for stopping fishing, refunds of fuel duty or similar lump sum compensation payments. Excludes social benefit payments, indirect subsidies, e.g., reduced duty on inputs such as fuel, investment subsidies.

 (4) Includes other income from use of the vessel, e.g., recreational fishing, tourism, oil rig duty, etc., also insurance payments for damage/
- loss of gear/vessel.
- (5) Including social security costs.
- (6) For example, the vessel owner's own labour. Chosen methodology should be explained by the Member State in their National
- (7) Excluding lubrication oil. Broken down by type if possible (petrol, diesel, biofuel, etc.).
- (8) Gross costs of maintenance and repairs to vessel and gear.
- (9) ESA refers to European System of Accounts 1995 (EU Reg. 2223/96, EU Reg. 1267/2003. Eurostat ESA 1995 manual).
- (10) Includes all purchased inputs (goods and services) related to fishing effort and/or catch/landings.
- (11) Includes purchased inputs not related to effort and/or catch/landings (including leased equipment).
- (12) Estimated according to [the proposed PIM methodology in the capital valuation report of study No FISH/2005/03: IREPA Onlus Coordinator, 2006. Evaluation of the capital value, investments and capital costs in the fisheries sector Study No FISH/2005/03, 203p.']. The data and estimation procedures should be explained in the National Programme.
- (13) Value of the vessel, i.e., the hull, engine, all onboard equipment and the gear. Estimated according to [the proposed PIM methodology in the capital valuation report of study No FISH/2005/03 'IREPA Onlus Co-ordinator, 2006. Evaluation of the capital value, investments and capital costs in the fisheries sector Study No FISH/2005/03, 203p.]. The data and estimation procedures should be explained in the National Programme.
- (14) Where appropriate. Methodology for estimation to be explained in the National Programme.
- (15) Improvements to existing vessel/gear during the given year.
- % debt in relation to total capital value (as defined above).
- (17) Number of jobs on board, equal to the average number of persons working for and paid by the vessel. This includes temporary crew as well as rotation crew. [see report of Study FISH/2005/14, 'LEI WAGENINGENUR Co-ordinator, 2006. Calculation of labour including full-time equivalent (FTE) in fisheries Study No FISH/2005/14, 142 p.']
- (18) Full-time equivalent (FTE) based on the national reference level for FTE working hours of the crew members on board the vessel (excluding resting time) and the working hours onshore. If the annual working hours per crew member exceed the reference level, the FTE equals 1 per crew member. If not, the FTE equals the ratio between the hours worked and the reference level. [The methodology should be in accordance with the Study FISH/2005/14, 'LEI WAGENINGENUR Co-ordinator, 2006. Calculation of labour including full-time equivalent (FTE) in fisheries Study No FISH/2005/14, 142 p.' and amended by the SGECA 07-01 report (15-19 January 2007, Salerno, 21 p. +annexes) and should be explained in the national programmes.]
- (19) Full-time equivalent (FTE) based on a threshold of 2 000 hours per FTE using the same methodology referred to in note 18.
- Situation at 1st of January as defined in the fleet register. Shared ownership (involving more than one person) should be regarded as one unit.
- (21) Prices in Euro per kilo live weight.

Appendix VII

List of Biological variables with species sampling specification (Y = Yearly; T = every three years)

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
		ICES areas I,	II					
European Eel	Anguilla anguilla	I, II	G1	(b)	Т	Т	Т	
Tusk	Brosme brosme	I, II	G2	250	Т	T	Т	
Basking shark	Cetorhinus maximus	I,II	G1					
Atlanto-Scandian herring	Clupea harengus	I, II,V	G1	25	Y	Y	Y	
Longnosed skate	Dipturus oxyrinchus	П	G1					
Velvet belly	Etmopterus spinax	II	G1					
Cod	Gadus morhua	I, II	G1	125	Y	Y	Y	
Blackmouth dogfish	Galeus melastomus	П	G1					
Capelin	Mallotus villosus	I, II	G2					
Haddock	Melanogrammus aeglefinus	I, II	G1	125	Y	Y	Y	
Blue whiting	Micromesistius poutassou	I-IX, XII, XIV	G1	25	Y	Y	Y	
Northern shrimp	Pandalus borealis	I, II	G1		Y	Y	Y	
Saithe	Pollachius virens	I, II	G1	125	Y	Y	Y	
Blonde ray	Raja brachyura	I, II	G1					
Thornback ray	Raja clavata	I, II	G1					
Cuckoo ray	Raja naevus	I,II	G1					
Starry ray	Raja radiata	I,II	G1					
Greenland halibut	Reinhardtius hippoglossoides	I, II	G1	50	Y	Y	Y	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Salmon	Salmo salar	I, II	G1	250	Т	Т	Т	
Mackerel	Scomber scombrus	II, IIIa, IV, V, VI, VII, VIII, IX	G1	25	Y	Y	Y	
GoldenRedfish	Sebastes marinus.	I, II	G1	125	Y	Y	Y	
Deep sea Redfish	Sebastes mentella.	I, II	G1	125	Y	Y	Y	
Angelshark	Squatina squatina	All areas						
Horse mackerel	Trachurus trachurus	IIa, IVa, Vb, VIa, VIIa-c, e-k, VIIIabde	G2	25	Т	Т	Т	
	s	kagerrak and Kattegat —	ICES area	IIIa				
Sand eel	Ammodytidae	IIIa	G2	50				
European Eel	Anguilla anguilla	IIIa	G1	(b)	Т	Т	Т	
Basking shark	Cetorhinus maximus	IIIa	G1					
Herring	Clupea harengus	IV, VIId, IIIa/22-24, IIIa	G1	25	Y	Y	Y	
Roundnose grenadier	Coryphaenoides rupestris	IIIa	G2	100	Т	Т	Т	
Grey gurnard	Eutrigla gurnardus	IIIa	G2	250	Т	Т	Т	
Cod	Gadus morhua	IV, VIId, IIIaN	G1	250	Y	Y	Y	
Cod	Gadus morhua	IIIaS	G1	125	Y	Y	Y	
Witch flounder	Glyptocephalus cynoglossus	IIIa	G2	250	Т	Т	Т	
Dab	Limanda limanda	IIIa	G2	125				
Haddock	Melanogrammus aeglefinus	IV, IIIa	G1	125	Y	Y	Y	
Whiting	Merlangius merlangus	IIIa	G2	125	Т	Т	Т	
Hake	Merluccius merluccius	IIIa, IV, VI, VII, VIIIab	G1	125	Y	Y	Y	
Blue whiting	Micromesistius poutassou	I-IX, XII, XIV	G1	25	Y	Y	Y	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Norway lobster	Nephrops norvegicus	Functional unit	G1		Y	Y	Y	
Northern shrimp	Pandalus borealis	IIIa, IVa east	G1		Y	Y	Y	
Plaice	Pleuronectes platessa	IIIa	G1	250	Y	Y	Y	
Saithe	Pollachius virens	IV, IIIa, VI	G1	125	Y	Y	Y	
Turbot	Psetta maxima	all areas	G2	250	Т	Т	Т	
Rays and skates	Rajidae (°)	IIIa	G1					
Mackerel	Scomber scombrus	II, IIIa, IV, V, VI, VII, VIII, IX	G1	25	Y	Y	Y	
Brill	Scophthalmus rhombus	IIIa	G2	125	Т	Т	Т	
Lesser spotted dogfish	Scyliorhinus canicula	IIIa	G1					
Sharks	Shark-like selachii (°)	IIIa	G1					
Sole	Solea solea	IIIa, 22	G1	250	Y	Y	Y	
Sprat	Sprattus sprattus	IIIa	G1	500	Y	Y	Y	
Norway pout	Trisopterus esmarki	IV, IIIa	G2	25				
		Baltic Sea — ICES Subdiv	visions 22-	32				
European Eel	Anguilla anguilla	IIIb-d	G1	(b)	Т	Т	Т	
Herring	Clupea harengus	22-24/25-29, 32/30/31/ Gulf of Riga	G1	25	Y	Y	Y	
Common Whitefish	Coregonus lavaretus	IIId	G2	250	Т	Т	Т	
Pike	Esox lucius	IIId	G2	250	Т	Т	Т	
Cod	Gadus morhua	22-24/25-32	G1	125	Y	Y	Y	
Dab	Limanda limanda	22-32	G2	125	Т	Т	Т	
Perch	Perca fluviatilis	IIId	G2	250	Т	Т	Т	
Flounder	Platichtys flesus	22-32	G2	250	Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Plaice	Pleuronectes platessa	22-32	G2	250	Т	Т	Т	
Turbot	Psetta maxima	22-32	G2	250	Т	Т	Т	
Salmon	Salmo salar	22-31/32	G1	250	Y	Y	Y	
Sea trout	Salmo trutta	22-32	G2	250	Т	T	Т	
Pike-perch	Sander lucioperca	IIId	G2	250	Т	Т	Т	
Brill	Scophthalmus rhombus	22-32	G2	125	Т	Т	Т	
Sole	Solea solea	22	G1	125	Y	Y	Y	
Sprat	Sprattus sprattus	22-32	G1	50	Y	Y	Y	
	North So	ea and Eastern Channel -	— ICES are	as IV, VIId				
Sand eel	Ammodytidae	IV	G2	25				
Catfish	Anarhichas spp.	IV	G2	250				
European Eel	Anguilla anguilla	IV, VIId	G1	(b)	Т	Т	Т	
Argentine	Argentina spp.	IV	G2	50				
Red gurnard	Aspitrigla cuculus	IV	G2	250	Т	Т	Т	
Tusk	Brosme brosme	IV, IIIa	G2	250	Т	Т	Т	
Leafscale gulper shark	Centrophorus squamosus	IV	G1					
Black dogfish	Centroscyllium fabricii	VIId	G1					
Portuguese dogfish	Centroscymnus coelolepis	VI	G1					
Longnose velvet dogfish	Centroscymnus crepidater	VIId	G1					
Basking shark	Cetorhinus maximus	IV, VIId	G1					
		,						

IV, VIId, IIIa

Clupea harengus

Herring

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Common Shrimp	Crangon crangon	IV, VIId	G2		Т	Т	Т	
Kitefin shark	Dalatias licha	VIId	G1					
Common stingray	Dasyatis pastinaca	VIId	G1					
Birdbeak dogfish	Deania calcea	VIIa	G1					
Sea bass	Dicentrarchus labrax	IV, VIId	G2	125	Т	Т	Т	
Velvet belly	Etmopterus spinax	IV, VIIa	G1					
Grey gurnard	Eutrigla gurnardus	IV	G2	250	Т	Т	Т	
Cod	Gadus morhua	IV, VIId, IIIa	G1	125	Y	Y	Y	
Blackmouth dogfish	Galeus melastomus	VIIa	G1					
Witch flounder	Glyptocephalus cynoglossus	IV	G2	250	Т	Т	Т	
Blue-mouth rockfish	Helicolenus dactylopterus	IV	G2	250	Т	Т	Т	
Four-spot megrim	Lepidorhombus boscii	IV, VIId	G2	50	Т	Т	Т	
Megrim	Lepidorhombus whiffiagonis	IV, VIId	G2	50	Т	Т	Т	
Sandy ray	Leucoraja circularis	VIId	G1					
Dab	Limanda limanda	IV, VIId	G2	125	Т	Т	Т	
Black-bellied angler	Lophius budegassa	IV, VIId	G1	125	Y	Y	Y	
Anglerfish	Lophius piscatorius	IIIa, IV, VI	G1	125	Y	Y	Y	
Roughhead grenadier	Macrourus berglax	IV, IIIa	G2	250	Т	Т	Т	
Haddock	Melanogrammus aeglefinus	IV, IIIa	G1	125	Y	Y	Y	
Whiting	Merlangius merlangus	IV, VIId	G1	125	Y	Y	Y	
Hake	Merluccius merluccius	IIIa, IV, VI, VII, VIIIab	G1	125	Y	Y	Y	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Blue whiting	Micromesistius poutassou	I-IX, XII, XIV	G1	25	Y	Y	Y	
Lemon sole	Microstomus kitt	IV, VIId	G2	100	Т	Т	Т	
Blue ling	Molva dypterygia	IV, IIIa	G1	125	Т	Т	Т	
Ling	Molva molva	IV, IIIa	G2	125	Т	Т	Т	
Red mullet	Mullus barbatus	IV, VIId	G2	125	Т	Т	Т	
Striped red mullet	Mullus surmuletus	IV, VIId	G2	125	Т	Т	Т	
Smooth hounds	Mustelus spp. (c)	VIIa	G1					
Norway lobster	Nephrops norvegicus	all functional units	G1		Y	Y	Y	
Northern shrimp	Pandalus borealis	IIIa, IVa East/IVa/IV	G1		Т	Т	Т	
Common scallop	Pecten maximus	VIId	G2		Т	Т	Т	
Greater Forkbeard	Phycis blennoides	IV	G2	50	Т	Т	Т	
Forkbeard	Phycis phycis	IV	G2	50	Т	Т	Т	
Flounder	Platichthys flesus	IV	G2	125	Т	Т	Т	
Plaice	Pleuronectes platessa	IV	G1	50	Y	Y	Y	
Plaice	Pleuronectes platessa	VIId	G1	125	Y	Y	Y	
Saithe	Pollachius virens	IV, IIIa, VI	G1	125	Y	Y	Y	
Turbot	Psetta maxima	IV, VIId	G2	250	Т	Т	Т	
Blonde ray	Raja brachyura	IV	G1					
Thornback ray	Raja clavata	IV, VIId	G1		Т	Т	Т	
Spotted ray	Raja montagui	IV, VIId	G1		Т	Т	Т	
Cuckoo ray	Raja naevus	IV, VIId	G1		Т	Т	Т	

	Г	Г						
Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Starry ray	Raja radiata	IV, VIId	G1		Т	Т	Т	
Other rays and skates	Rajidae (°)	IV, VIId	G1					
Greenland halibut	Reinhardtius hippoglossoides	IV	G2	250	Т	Т	Т	
Salmon	Salmo salar	IV	G1	250	Т	Т	Т	
Mackerel	Scomber scombrus	II, IIIa, IV, V, VI, VII, VIII, IX	G1	25	Y	Y	Y	
Brill	Scophthalmus rhombus	IV, VIId	G2	125	Т	Т	Т	
Lesser spotted dogfish	Scyliorhinus canicula	IV, VIIa	G1					
Redfish	Sebastes mentella.	IV	G1	125	Y	Y	Y	
Deepwater shark	Shark-like Selachii (°)	IV	G1		Т	Т	Т	
Small shark	Shark-like Selachii (°)	IV, VIId	G1		Т	Т	Т	
Sole	Solea solea	IV	G1	250	Y	Y	Y	
Sole	Solea solea	VIId	G1	250	Y	Y	Y	
Sprat	Sprattus sprattus	IV/VIIde	G1	50	Т	Т	Т	
Spurdog	Squalus acanthias	IV, VIId	G1		Т	Т	Т	
Angelshark	Squatina squatina	All areas	G1					
Angelshark	Squatina squatina	VIIa	G1					
Horse mackerel	Trachurus trachurus.	IIa, IVa, Vb, VIa, VIIa-c, e-k, VIIIabde/IIIa, IVbc, VIId	G2	25	Т	Т	Т	Т
Tub gurnard	Trigla lucerna	IV	G2	250	Т	Т	Т	
Norway pout	Trisopterus esmarki	IV, IIIa	G2	25				
John Dory	Zeus faber	IV, VIId	G2	250	Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
North	East Atlantic and Wester	n Channel — ICES areas	V, VI, VII	(excluding o	l), VIII, IX,	X, XII,	XIV	
Smoothhead	Alepocephalus bairdii	VI, XII	G2		Т	Т	Т	
Sand eel	Ammodytidae	VIa	G2	25				
European Eel	Anguilla anguilla	all areas	G1	(b)	Т	Т	Т	
Scabbardfish	Aphanopus spp.	all areas	G1	50	Y	Y	Y	
Argentine	Argentina spp.	all areas	G2	50	Т	Т	Т	
Meagre	Argyrosomus regius	all areas	G2	50	Т	Т	Т	
Red gurnard	Aspitrigla cuculus	all areas	G2	250	Т	Т	Т	
Alfonsinos	Beryx spp.	all areas, excluding X and IXa	G1	50	Y	Y	Y	
Alfonsinos	Beryx spp.	IXa and X	G1	125	Т	Т	Т	
Edible crab	Cancer pagurus	all areas	G2		Т	Т	Т	
Gulper shark	Centrophorus granulosus	all areas	G1		Т	Т	Т	
Leafscale gulper shark	Centrophorus squamosus	all areas	G1		Т	Т	Т	
Black dogfish	Centroscyllium fabricii	V, VI, VII, XII	G1					
Portuguese dogfish	Centroscymnus coelolepis	all areas	G1		Т	Т	Т	
Longnose velvet dogfish	Centroscymnus crepidater	V, VI, VII, IX, X, XII	G1					
Basking shark	Cetorhinus maximus	All areas	G1					
Herring	Clupea harengus	VIa/VIaN/ VIa S, VIIbc/VIIa/ VIIj	G1	25	Y	Y	Y	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Conger	Conger conger	all areas, excluding X	G2	25	Т	Т	Т	
Conger	Conger conger	X	G2	125	Т	Т	Т	
Roundnose grenadier	Coryphaenoides rupestris	all areas	G1	100	Y	Y	Y	
Kitefin shark	Dalatias licha	All areas	G1					
Common stingray	Dasyatis pastinaca	VII, VIII	G1					
Birdbeak dogfish	Deania calcea	V, VI, VII, IX, X, XII	G1					
Sea bass	Dicentrarchus labrax	all areas, excluding	G2	125	Т	Т	Т	
Sea bass	Dicentrarchus labrax	IX	G2	125	Т	T	Т	
Wedge sole	Dicologoglosa cuneata	VIIIc, IX	G2	100				
Common skate	Dipturus batis	V, VI, VII, VIII	G1					
Longnosed skate	Dipturus oxyrinchus	V, VI, VII, VIII	G1					
Anchovy	Engraulis encrasicolus	IXa (only Cádiz)	G1	125	Т	Т	Т	Т
Anchovy	Engraulis encrasicolus	VIII	G1	125	Y	Y	Y	Y
Velvet belly	Etmopterus spinax	VI, VII, VIII	G1					
Grey gurnard	Eutrigla gurnardus	VIId,e	G2	250	Т	Т	Т	
Cod	Gadus morhua	Va/Vb/VIa/VIb/VIIa/ VIIe-k	G1	125	Y	Y	Y	
Blackmouth dogfish	Galeus melastomus	VI, VII, VIII, IX, X	G1					
Witch	Glyptocephalus cynoglossus	VI, VII	G2	50				
Bluemouth rockfish	Helicolenus dactylopterus	all areas	G2	100				
Lobster	Homarus gammarus	all areas	G2		Т	T	Т	

		_						
Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Orange roughy	Hoplostethus atlanticus	all areas	G1	50	Y	Y	Y	
Shortfin mako	Isurus oxyrinchus	All areas	G1					
Porbeagle	Lamna nasus	All areas	G1					
Silver scarbbardfish	Lepidopus caudatus	IXa	G2		Т	Т	Т	
Four-spot megrim	Lepidorhombus boscii	VIIIc, IXa	G1	250	Y	Y	Y	
Megrim	Lepidorhombus whiffiagonis	VI/VII, VIIIabd/VIIIc, IXa	G1	125	Y	Y	Y	
Sandy ray	Leucoraja circularis	VI, VII, VIII	G1					
Shagreen ray	Leucoraja fullonica	V, VI, VII, VIII	G1					
Dab	Limanda limanda	VIIe/VIIa,f-h	G2	125	Т	Т	Т	
Common squid	Loligo vulgaris	all areas, excluding VIIIc, IXa	G2					
Common squid	Loligo vulgaris	VIIIc, IXa	G2		Т	Т	Т	
Black-bellied angler	Lophius budegassa	IV, VI/VIIb-k, VIIIabd	G1	125	Y	Y	Y	
Black-bellied angler	Lophius budegassa	VIIIc, IXa	G1	125	Y	Y	Y	
Anglerfish	Lophius piscatorious	IV, VI/VIIb-k, VIIIabd	G1	125	Y	Y	Y	
Anglerfish	Lophius piscatorious	VIIIc, IXa	G1	125	Y	Y	Y	
Capelin	Mallotus villosus	XIV	G2	50				
Haddock	Melanogrammus aeglefinus	Va/Vb	G1	125	Y	Y	Y	
Haddock	Melanogrammus aeglefinus	VIa/VIb/VIIa/VIIb-k	G1	125	Y	Y	Y	
Whiting	Merlangius merlangus	VIII/IX, X	G2	25	Т	Т	Т	



Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Whiting	Merlangius merlangus	Vb/VIa/VIb/VIIa/ VIIe-k	G1	250	Y	Y	Y	
Hake	Merluccius merluccius	IIIa, IV, VI, VII, VIIIab/VIIIc, IXa	G1	125	Y	Y	Y	
Wedge sole	Microchirus variegatus	all areas	G2	50				
Blue whiting	Micromesistius poutassou	I-IX, XII, XIV	G1	25	Y	Y	Y	
Lemon sole	Microstomus kitt	all areas	G2	100	Т	Т	Т	
Blue ling	Molva dypterygia	all areas, excluding X	G1	125	Т	Т	Т	
Blue ling	Molva dypterygia	X	G1	125	Т	Т	Т	
Ling	Molva molva	all areas	G2	125	Т	Т	Т	
Striped red mullet	Mullus surmuletus	all areas	G2	125	Т	Т	Т	
Starry smooth-hound	Mustelus asterias	VI, VII, VIII, IX	G1					
Smooth-hound	Mustelus mustelus	VI, VII, VIII, IX	G1					
Blackspotted smooth-hound	Mustelus punctulatus	VI, VII, VIII, IX	G1					
Common eagle ray	Myliobatis aquila	All areas	G1					
Norway lobster	Nephrops norvegicus	VI Fuctional unit	G1		Y	Y	Y	
Norway lobster	Nephrops norvegicus	VII Functional unit	G1		Y	Y	Y	
Norway lobster	Nephrops norvegicus	VIII, IX Functional unit	G1		Y	Y	Y	
Common octopus	Octopus vulgaris	all areas, excluding VIIIc, IXa	G2		Т	Т	Т	
Common octopus	Octopus vulgaris	VIIIc, IXa	G2					
Sea bream	Pagellus bogaraveo	IXa, X	G1	250	Т	T	Т	
Pandalid shrimps	Pandalus spp.	all areas	G2					

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
White shrimp	Parapenaeus longirostris	IXa	G2		Т	Т	Т	
Greater Forkbeard	Phycis blennoides	all areas	G2	50	Т	Т	Т	
Forkbeard	Phycis phycis	all areas	G2	50	Т	Т	Т	
Plaice	Pleuronectes platessa	VIIa/VIIe/VIIfg	G1	100	Y	Y	Y	
Plaice	Pleuronectes platessa	VIIbc/VIIh-k/VIII, IX, X	G1	25	Y	Y	Y	
Pollack	Pollachius pollachius	all areas except IX,	G2	25	Т	Т	Т	
Pollack	Pollachius pollachius	IX, X	G2	500	Т	Т	Т	
Saithe	Pollachius virens	Va/Vb/IV, IIIa, VI	G1	125	Y	Y	Y	
Saithe	Pollachius virens	VII, VIII	G2	125	Т	Т	Т	
Wreckfish	Polyprion americanus	X	G2	125				
Blue shark	Prionace glauca	All areas	G1					
Turbot	Psetta maxima	all areas	G2	250	Т	Т	Т	
Blue stingray	Pteroplatytrygon violacea	All areas	G1					
Bottlenosed skate	Raja alba	IX	G1					
Blonde ray	Raja brachyura	VII, IX	G1					
Thornback ray	Raja clavata	all areas	G1		Т	Т	Т	
Small eyed ray	Raja microocellata	VII, IX	G1					
Brown ray	Raja miraletus	IX	G1					
Spotted ray	Raja montagui	all areas	G1		Т	Т	Т	
Cuckoo ray	Raja naevus	all areas	G1		Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Starry ray	Raja radiata	V	G1					
Other rays and skates	Rajidae (°)	all areas	G1					
Greenland halibut	Reinhardtius hippoglossoides	V, XIV/VI	G1	250	Y	Y	Y	
Salmon	Salmo salar	all areas	G1	250				
Sardine	Sardina pilchardus	VIIIabd/VIIIc, IXa	G1	50	Y	Y	Y	Т
Spanish mackerel	Scomber japonicus	VIII, IX	G2	25	Т	Т	Т	
Mackerel	Scomber scombrus	II, IIIa, IV, V, VI, VII, VIII, IX	G1	25	Y	Y	Y	Т
Brill	Scophthalmus rhombus	all areas	G2	125	Т	Т	Т	
Golden Redfish	Sebastes marinus	ICES Sub areas V, VI, XII, XIV & NAFO SA 2 + (Div. 1F + 3K).	G1	250	Y	Y	Y	
Deep sea Redfish	Sebastes mentella	ICES Sub areas V, VI, XII, XIV & NAFO SA 2 + (Div. 1F + 3K)	G1	250	Y	Y	Y	
Cuttlefish	Sepia officinalis	all areas	G2		Т	Т	Т	
Sole	Solea solea	VIIa/VIIfg	G1	250	Y	Y	Y	
Sole	Solea solea	VIIbc/VIIhjk/IXa/ VIIIc	G1	250	Y	Y	Y	
Sole	Solea solea	VIIe	G1	250	Y	Y	Y	
Sole	Solea solea	VIIIab	G1	250	Y	Y	Y	
Sea breams (in plural)	Sparidae	all areas	G2	50				
Spurdog	Squalus acanthias	all areas	G1		Т	Т	Т	
Angelshark	Squatina squatina	All areas	G1					
Electric ray	Torpedo marmorata	VIII	G1					
Mediterranean horse mackerel	Trachurus mediterraneus	VIII, IX	G2	25	Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Blue jack mackerel	Trachurus picturatus	X	G2	25	Т	Т	Т	
Horse mackerel	Trachurus trachurus	IIa, IVa, Vb, VIa, VIIa-c, e-k, VIIIabde/X	G2	25	Т	Т	Т	Т
Horse mackerel	Trachurus trachurus	VIIIc, IXa	G2	25	Т	Т	Т	Т
Pouting	Trisopterus spp.	all areas	G2	25				
John Dory	Zeus faber	all areas	G2	250	Т	Т	Т	
		Mediterranean Sea and	Black Sea					
Bigeye thresher shark	Alopias superciliosus	All areas	G1					
Thresher shark	Alopias vulpinus	All areas	G1					
European Eel	Anguilla anguilla	all areas	G1	(b)	Т	Т	Т	
Giant red shrimp	Aristeomorpha foliacea	all areas	G1		Y	Y	Y	
Red shrimp	Aristeus antennatus	all areas	G1		Y	Y	Y	
Bogue	Boops boops	1.3, 2.1, 2.2, 3.1, 3.2	G2		Т	Т	Т	
Sandbar shark	Carcharhinus plumbeus	All areas	G1					
Sand tiger shark	Carcharias taurus	All areas	G1					
Gulper shark	Centrophorus granulosus	All areas	G1					
Basking shark	Cetorhinus maximus	All areas	G1					
Dolphinfish	Coryphaena equiselis	all areas	G2					
Dolphinfish	Coryphaena hippurus	all areas	G2	500 (d)	Т	Т	Т	
Kitefin shark	Dalatias licha	All areas	G1					
Sea bass	Dicentrarchus labrax	all areas	G2	100	Т	Т	Т	
Blue skate	Dipturus batis	All areas	G1					

	1	1						
Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Longnosed skate	Dipturus oxyrinchus	All areas	G1					
Horned octopus	Eledone cirrosa	1.1, 1.3, 2.1, 2.2, 3.1	G2		Т	Т	Т	
Musky octopus	Eledone moschata	1.3, 2.1, 2.2, 3.1	G2		Т	Т	Т	
Anchovy	Engraulis encrasicolus	all areas	G1	50	Y	Y	Y	
Anchovy	Engraulis encrasicolus	Black Sea	G1		Т	T	Т	
Velvet belly	Etmopterus spinax	All areas	G1					
Grey gurnard	Eutrigla gurnardus	2.2, 3.1	G2	250	Т	Т	Т	
Tope shark	Galeorhinus galeus	All areas	G1					
Blackmouth dogfish	Galeus melastomus	All areas	G1					
Spiny butterfly ray	Gymnura altavela	All areas	G1					
Sharpnose sevengill shark	Heptranchias perlo	All areas	G1					
Bluntnose sixgill shark	Hexanchus griseus	All areas	G1					
Squid	Illex spp., Todarodes spp.	all areas	G2		Т	Т	Т	
Billfish	Istiophoridae	all areas	G1		Т	Т	Т	
Shortfin mako	Isurus oxyrinchus	All areas	G1					
Porbeagle	Lamna nasus	All areas	G1					
Sandy ray	Leucoraja circularis	All areas	G1					
Maltese skate	Leucoraja melitensis	All areas	G1					
Common squid	Loligo vulgaris	all areas	G2		Т	Т	Т	
Black-bellied angler	Lophius budegassa	1.1, 1.2, 1.3, 2.2, 3.1	G2	250	Т	Т	Т	
Anglerfish	Lophius piscatorius	1.1, 1.2, 1.3, 2.2, 3.1	G2	250	Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Hake	Merluccius merluccius	all areas	G1	125	Y	Y	Y	
Blue whiting	Micromesistius poutassou	1.1, 3.1	G2	250	Т	Т	Т	
Grey mullets	Mugilidae	1.3, 2.1, 2.2, 3.1	G2					
Red mullet	Mullus barbatus	all areas	G1	125	Y	Y	Y	
Striped red mullet	Mullus surmuletus	all areas	G1	125	Y	Y	Y	
Starry smooth-hound	Mustelus asterias	All areas	G1					
Smooth-hound	Mustelus mustelus	All areas	G1					
Blackspotted smooth-hound	Mustelus punctulatus	All areas	G1					
Common eagle ray	Myliobatis aquila	All areas	G1					
Norway lobster	Nephrops norvegicus	all areas	G1		Y	Y	Y	
Common octopus	Octopus vulgaris	all areas	G2		Т	Т	Т	
Smalltooth sand tiger	Odontaspis ferox	All areas	G1					
Angular roughshark	Oxynotus centrina	All areas	G1					
Pandora	Pagellus erythrinus	all areas	G2	125	Т	Т	Т	
White shrimp	Parapenaeus longirostris	all areas	G1		Y	Y	Y	
Caramote prawn	Penaeus kerathurus	3.1	G2		Т	Т	Т	
Blue shark	Prionace glauca	All areas	G1					
Smalltooth sawfish	Pristis pectinata	All areas	G1					
Common sawfish	Pristis pristis	All areas	G1					
Turbot	Psetta maxima	Black Sea	G1		Т	T	Т	
Blue stingray	Pteroplatytrygon violacea	All areas	G1					



	1							
Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Starry ray	Raja asterias	All areas	G1					
Thornback ray	Raja clavata	1.3, 2.1, 2.2, 3.1	G1		Т	Т	Т	
Brown ray	Raja miraletus	1.3, 2.1, 2.2, 3.1	G1		Т	Т	Т	
Undulate ray	Raja undulata	All areas	G1					
Blackchin guitarfish	Rhinobatos cemiculus	All areas	G1					
Common guitarfish	Rhinobatos rhinobatos	All areas	G1					
White skate	Rostroraja alba	All areas	G1					
Atlantic bonito	Sarda sarda	all areas	G2	50 (^d)	Т	Т	Т	
Sardine	Sardina pilchardus	all areas	G1	50	Y	Y	Y	
Mackerel	Scomber spp.	all areas	G2	50	Т	Т	Т	
Small-spotted catshark	Scyliorhinus canicula	All areas	G1					
Nursehound	Scyliorhinus stellaris	All areas	G1					
Cuttlefish	Sepia officinalis	all areas	G2		Т	Т	Т	
Sharks	Shark-like Selachii (°)	all areas	G1		Т	Т	Т	
Sole	Solea vulgaris	1.2, 2.1, 3.1	G1	250	Y	Y	Y	
Gilthead sea bream	Sparus aurata	1.2, 3.1	G2		Т	Т	Т	
Scalloped hammerhead	Sphyrna lewini	All areas	G1					
Great hammerhead	Sphyrna mokarran	All areas	G1					
Smalleye hammerhead	Sphyrna tudes	All areas	G1					
Smooth hammerhead	Sphyrna zygaena	All areas	G1					
Picarels	Spicara smaris	2.1, 3.1, 3.2	G2	100	Т	Т	Т	
Sprat	Sprattus sprattus	Black Sea	G1		Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Piked dogfish	Squalus acanthias	Black Sea	G1		Т	Т	Т	
Spiny dogfish	Squalus acanthias	All areas	G1					
Longnose spurdog	Squalus blainvillei	All areas	G1					
Sawback aculeata	Squatina aculeata	All areas	G1					
Smoothback angelshark	Squatina oculata	All areas	G1					
Angelshark	Squatina squatina	All areas	G1					
Mantis shrimp	Squilla mantis	1.3, 2.1, 2.2	G2		Т	Т	Т	
Albacore	Thunnus alalunga	all areas	G2	125 (^d)	Т	Т	Т	
Bluefin tuna	Thunnus thynnus	all areas	G1	125 (^d)	Т	Т	Т	
Spotted torpedo	Torpedo marmorata	All areas	G1					
Mediterranean horse mackerel	Trachurus mediterraneus	all areas	G2	100	Т	Т	Т	
Mediterranean horse mackerel	Trachurus mediterraneus	Black Sea	G1		Т	Т	T	
Horse mackerel	Trachurus trachurus	all areas	G2	100	Т	Т	T	
Horse mackerel	Trachurus trachurus	Black Sea	G1		T	Т	T	
Tub gurnard	Trigla lucerna	1.3, 2.2, 3.1	G2		T	Т	T	
Clam	Veneridae	2.1, 2.2	G2		T	Т	T	
Sword fish	Xiphias gladius	all areas	G1	125 (^d)	Т	Т	Т	
		NAFO areas	S					
Cod	Gadus morhua	2J 3KL	G1	125	Y	Y	Y	

	ı	1							
Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity	
Cod	Gadus morhua	3M	G1	125	Y	Y	Y		
Cod	Gadus morhua	3NO	G1	125	Y	Y	Y		
Cod	Gadus morhua	3Ps	G2	125	Т	Т	Т		
Cod	Gadus morhua	SA 1	G1	125	Y	Y	Y		
Witch flounder	Glyptocephalus cynoglossus	3NO	G2		Т	Т	Т		
American plaice	Hippoglossoides platessoides	3LNO	G1	100	Y	Y	Y		
American plaice	Hippoglossoides platessoides	3M	G1	100	Т	Т	Т		
Yellowtail flounder	Limanda ferruginea	3LNO	G2		Т	Т	Т		
Grenadier	Macrouridae	SA 2 + 3	G2	250	Т	Т	Т		
Pandalid shrimp	Pandalus spp.	3L	G1		Y	Y	Y		
Pandalid shrimp	Pandalus spp.	3M	G1		Y	Y	Y		
Rays and skates	Raja spp.	SA 3	G1		Т	Т	Т		
Greenland halibut	Reinhardtius hippoglossoides	3KLMNO	G1	200	Y	Y	Y		
Greenland halibut	Reinhardtius hippoglossoides	SA 1	G1	200	Y	Y	Y		
Salmon	Salmo salar	ICES Sub-area XIV & NAFO Sub-area 1	G1	500	Y	Y	Y		
Redfish	Sebastes mentella.	SA 1	G1	250	Y	Y	Y		
Redfish	Sebastes spp.	3LN	G1						
Redfish	Sebastes spp.	3M	G1	50					
Redfish	Sebastes spp.	30	G1						
	Highly migratory species Atlantic, Indian and Pacific Oceans								
Frigate tuna	Auxis rochei		G2		Т	Т	Т		
Silky shark	Carcharhinus falciformis	All areas	G1						

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Atlantic back skipjack	Euthynnus alleteratus		G2		Т	Т	Т	
Billfish	Istiophoridae		G1		Т	Т	Т	
Shortfin mako	Isurus oxyrinchus		G1		Т	Т	Т	
Skipjack tuna	Katsuwonus pelamis		G1		Т	Т	Т	
Porbeagle	Lamna nasus		G1		Т	Т	T	
Blue shark	Prionace glauca		G1		Т	Т	T	
Atlantic bonito	Sarda sarda		G1		Т	Т	Т	
Sharks	Shark-like Selachii (°)		G1		Т	Т	Т	
Other sharks	Squaliformes (°)		G1		Т	Т	Т	
Albacore	Thunnus alalunga		G1		Т	Т	Т	
Yellowfin tuna	Thunnus albacares		G1		Т	Т	Т	
Bigeye tuna	Thunnus obesus		G1		Т	Т	Т	
Bluefin tuna	Thunnus thynnus		G1		Т	Т	Т	
Swordfish	Xiphias gladius		G1		Т	Т	Т	
		CECAF FAO 3	34					
Black scabbardfish	Aphanopus carbo	Madeira	G1		Т	Т	Т	
Anchovy	Engraulis encrasicolus	Morocco	G1		Т	Т	Т	
Southern pink shrimp	Farfantepenaeus notialis	all areas	G1		Т	Т	Т	
Silver scabbardfish	Lepidopus caudatus	Mauritania	G2					
Common squid	Loligo vulgaris	all areas	G2		Т	Т	Т	
Hake	Merluccius spp.	all areas	G1		Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
Common octopus	Octopus vulgaris	all areas	G1		Т	Т	Т	
Deepwater rose shrimp	Parapenaeus longirostris	all areas	G1		Т	Т	Т	
Smalltooth sawfish	Pristis pectinata	All areas	G1					
Common sawfish	Pristis pristis	All areas	G1					
Blue stingray	Pteroplatytrygon violacea	All areas	G1					
Other rays and skates	Rajidae (°)	All areas	G1					
Blackchin guitarfish	Rhinobatos cemiculus	All areas	G1					
Common guitarfish	Rhinobatos rhinobatos	All areas	G1					
Sardine	Sardina pilchardus	all areas	G1		Т	Т	Т	
Round sardinella	Sardinella aurita	all areas	G1		Т	Т	Т	
Short-body sardinella	Sardinella maderensis	all areas	G1		Т	Т	Т	
Chub mackerel	Scomber japonicus	Madeira	G1					
Chub mackerel	Scomber japonicus	all areas except Madeira	G1		Т	Т	Т	
Cuttlefish	Sepia hierredda	all areas	G1		Т	Т	Т	
Cuttlefish	Sepia officinalis	all areas	G1		Т	T	Т	
Sharks	Shark-like Selachii (°)	All areas	G1					
Sawback aculeata	Squatina aculeata	All areas	G1					
Smoothback angelshark	Squatina oculata	All areas	G1					
Angelshark	Squatina squatina	All areas	G1					
Horse mackerel	Trachurus spp.	all areas	G1		Т	Т	Т	

Species (Engl.)	Species (Latin)	Area/Stock	Species group (a)	Age No/ 1 000 t	Weight	Sex	Maturity	Fecundity
WECAF								
Red snapper	Lutjanus purpureus	French Guiana EEZ	G2		Т	Т	Т	
Penaeus shrimp	Penaeus subtilis	French Guiana EEZ	G1		Y	Y	Y	
Other rays and skates	Rajidae (°)	All areas	G1					
Sharks	Shark-like Selachii (°)	All areas	G1					

⁽a) See section Chapter III section B/B1/3. (1) (f)
(b) Age analysis for European eel (Anguilla anguilla) shall be set at a minimum of 5 individuals per cm length intervals. A minimum of 100 individuals shall be analysed per management unit as specified in Regulation (EC) No 1100/2007 for yellow and silver eels separately.
(c) To be defined by species according to landing, survey or catch data.
(d) Periodicity for age is every three years (first year starting in 2009) and shall be carried out together with weight, maturity and sex estimates.

estimates.

Appendix VIII

List of transversal variables with sampling specification

Heading	Variable	Specification	Unit	Gear (Level 2 in the matrix)	Disaggregation Level (¹)	Reference period
Capacity						
	Number of vessels				C3	Annually
	GT, kW, Vessel Age (²)				C3	Annually
Effort						
	Number of vessels				B1	Monthly
	Days at sea	See definition in Chapter I	Days	All gears	B1 and C3	Monthly
	Hours fished (3)		Hours	Dredges and Trawls	A1 (4)	Monthly
	Fishing days	See definition in Chapter I	Days	All gears	All cells (4)	Monthly
	kW * Fishing Days			Dredges and Trawls	All cells (4)	Monthly
	GT * Fishing days			Dredges and Trawls	All cells (4)	Monthly
	Number of trips (3)		Number	All gears	All cells (4)	Monthly
	Number of rigs (3)		Number	Multi rig (level 4)	A1 (4)	Monthly
	Number of fishing operations (3)		Number	Purse Seines	A1 (4)	Monthly
	Number of nets/Length (3)		Number/meters	Nets	A1 (4)	Monthly
	Number of hooks, Number of lines (3)		Number	Hook and Lines	A1 (4)	Monthly
	Numbers of pots, traps (3)		Number	Traps	A1 (4)	Monthly
	Soaking time (3)		Hours	All Passive gears	A1 (4)	Monthly

Heading	Variable	Specification	Unit	Gear (Level 2 in the matrix)	Disaggregation Level (1)	Reference period
Landings						
	Value of landings total and per commercial species (5)		Euro		B1 and C1	Monthly
	Live Weight of landings total and per species		Tonnes		A1 (4)	Monthly
	Prices by commercial species (6)		Euro/kg		B2 and C2	Monthly, Annually
	Conversion factor per species					Annual update

⁽¹⁾ The disaggregation levels refer to appendix IV (NB: the reference for metier or fishing activity is the level 6 of the Appendix IV (1-5)).

⁽²⁾ As defined in Regulation (EC) No 26/2004.

⁽²⁾ As defined in Regulation (EC) NO 2012404.
(3) Some adjustments could be proposed by Regional Coordination Meetings.
(4) For some variables, the disaggregation level of A is enough because $\sum_{i} A_{ij} = B_i \dots and \sum_{j} A_{ij} \neq C_j$ (for example Fishing days, where two or more metiers can be practised during the same fishing day and accounted more than once).

(5) If it is not possible to directly allocate landings from one trip into metiers, then this allocation should be based on rules agreed by STECF.

⁽⁶⁾ If possible, price data should be collected at the level A1 (see Appendix V) in order to calculate immediately the value of landings at this same level.

Appendix IX

List of research surveys at sea

				Main targeted species	Survey effort
Name of the survey	Acronym	Area	Period	etc.	Days (Maximum)
		Baltic Sea (ICES areas	IIIb-d)		
Baltic International Trawl Survey	BITS Q1 BITS Q4	IIIaS, IIIb-d	1st and 4th Quarter	Cod and other demersal species	160
Baltic International Acoustic Survey (Autumn)	BIAS	IIIa, IIIb-d	Sep-Oct	Herring and sprat	115
Gulf of Riga Acoustic Herring Survey	GRAHS	IIId	3rd Quarter	Herring	10
Sprat Acoustic Survey	SPRAS	IIId	May	Sprat and herring	60
Rügen Herring Larvae Survey	RHLS	IIId	March-June	Herring	50
North Se	ea (ICES areas IIIa	, IV and VIId) and Ea	stern Arctic (ICES are	eas I and II)	
International Bottom Trawl Survey	IBTS Q1 IBTS Q3	IIIa, IV	1st and 3rd Quarter	Haddock, Cod, Saithe, Herring, Sprat, Whiting, Mackerel, Norway pout.	315
North Sea Beam Trawl Survey	BTS	IVb, IVc, VIId	3rd Quarter	Plaice, Sole	65
Demersal Young Fish Survey	DYFS	Coasts of NS	3rd and 4th Quarter	Plaice, sole, brown shrimp	145
Sole Net Survey	SNS	IVb, IVc	3rd Quarter	Sole, Plaice	20
North Sea Sandeels Survey	NSSS	IVa, IVb	4th Quarter	Sandeels	15
International Ecosystem Survey in the Nordic Seas	ASH	IIa	May	Herring, Blue whiting	35
Redfish Survey in the Norwegian Sea and adjacent waters	REDNOR	II	August- September	Redfish	35
Mackerel egg Survey (Triennial)	NSMEGS	IV	May-July	Mackerel egg production	15
Herring Larvae survey	IHLS	IV, VIId	1st and 3rd Quarter	Herring, Sprat Larvae	45
NS Herring Acoustic Survey	NHAS	IIIa, IV, VIa	June, July	Herring, Sprat	105
Nephrops TVsurvey (FU 3&4)	NTV3&4	IIIA	2nd or 3rd Quarter	Nephrops	15
Nephrops TVsurvey (FU 6)	NTV6	IVb	September	Nephrops	10

					Survey effort
Name of the survey	Acronym	Area	Period	Main targeted species etc.	Days (Maximum)
Nephrops TVsurvey (FU 7)	NTV7	IVa	2nd or 3rd Quarter	Nephrops	20
Nephrops TVsurvey (FU 8)	NTV8	IVb	2nd or 3rd Quarter	Nephrops	10
Nephrops TVsurvey (FU 9)	NTV9	IVa	2nd or 3rd Quarter	Nephrops	10
	North Atlar	ntic (ICES Areas V-XIV	and NAFO areas)		
International Redfish Trawl and Acoustic Survey (Biennial)	REDTAS	Va, XII, XIV; NAFO SA 1-3	June/July	Redfish	30
Flemish Cap Groundfish survey	FCGS	3M	July	Demersal species	35
Greenland Groundfish survey	GGS	XIV, NAFO SA1	October/ November	Cod, redfish and other demersal species	55
3LNO Groundfish survey	PLATUXA	3LNO	2nd and 3rd Quarter	Demersal species	55
Western IBTS 4th quarter (including Porcupine survey)	IBTS Q4	VIa, VII, VIII, IXa	4th Quarter	Demersal species	215
Scottish Western IBTS	IBTS Q1	VIa, VIIa	March	Gadoids, herring, mackerel	25
ISBCBTS September	ISBCBTS	VIIa f g	September	Sole, Plaice	25
WCBTS	VIIe BTS	VIIe	October	Sole, Plaice, Anglerfish, Lemon sole	10
Blue whiting survey		VI, VII	1st and 2nd Quarter	Blue whiting	45
International Mackerel and Horse Mackerel Egg Survey (Triennial)	MEGS	VIa, VII, VIII, IXa	January-July	Mackerel, Horse Mackerel egg production	310
Sardine, Anchovy Horse Mackerel Acoustic Survey		VIII, IX	March-April- May	Sardine, Anchovy, Mackerel, Horse Mackerel abundance indices	95
Sardine DEPM (Triennial)		VIIIc, IXa	2nd and 4th Quarter	Sardine SSB and use of CUFES	135
Spawning/Pre spawning Herring acoustic survey		VIa, VIIa-g	July, Sept, Nov, March, Jan	Herring, Sprat	155
Biomass of Anchovy	BIOMAN	VIII	May	Anchovy SSB (DEP)	25
Nephrops UWTV survey (offshore)	UWTV (FU 11-13)	VIa	2nd or 3rd Quarter	Nephrops	20

				Main targeted species	Survey effort
Name of the survey	Acronym	Area	Period	etc.	Days (Maximum)
Nephrops UWTV Irish Sea	UWTV (FU 15)	VIIa	August	Nephrops	10
Nephrops UWTV survey Aran Grounds	UWTV (FU 17)	VIIb	June	Nephrops	10
Nephrops UWTV survey Celtic Sea	UWTV (FU 20-22)	VIIg, h, j	July	Nephrops	10
Nephrops TV Survey Offshore Portugal	UWTV (FU 28-29)	IXa	June	Nephrops	20
	Med	diterranean waters and	Black sea		
Mediterranean International bottom trawl survey	MEDITS	37(1, 2, 3.1, 3.2)	2nd and 3rd Quarter	Demersal species	410
Pan-Mediterranean pelagic survey	MEDIAS	37(1.1, 1.2, 2.1, 2.2, 3.1)	2nd, 3rd and 4th Quarter	Small pelagic species	185
Bottom Trawl Survey		Black Sea	2nd and 4th Quarter	Turbot	40
Pelagic Trawl Survey		Black Sea	2nd and 4th Quarter	Sprat and Whiting	40

Appendix X

List of economic variables for the aquaculture sector

Variable group	Variable	Specification	Unit	Definition Structural Business Statistics (SBS) Regulation (EC) No 2700/98	Guideline
Income	Turnover	Per species	Euro	12 11 0	
	Subsidies (¹)		Euro		
	Other income		Euro		
Personnel Costs	Wages and salaries (2)		Euro	13 31 0	
	Imputed value of unpaid labour (3)		Euro		
Energy costs	Energy costs		Euro	20 11 0	
Raw material costs	Livestock costs		Euro		SBS (13 11 0)
	Feed costs		Euro		SBS (13 11 0)
Repair and maintenance costs	Repair and maintenance		Euro		SBS (13 11 0)
Other operational costs	Other operational costs (4)		Euro		SBS (13 11 0)
Capital costs (5)	Depreciation of capital		Euro		ESA (6) 6.02. to 6.05.
	Financial costs, net (7)		Euro		
Extraordinary costs, net	Extraordinary costs, net		Euro		
Capital value (8)	Total value of assets		Euro Euro	43 30 0	ESA 7.09. to 7.24.
Investments	Net Investments (9)		Euro Euro	15 11 0 15 21 0	ESA 3.102. to 3.111.
Debt (10)	Debt		Euro		
Raw material Volume (11)	Livestock		Ton		
	Fish Feed		Ton		

-	4	
9		
_	د	
2	د	
c	>	
_	4	
_	5	

Variable group	Variable	Specification	Unit	Definition Structural Business Statistics (SBS) Regulation (EC) No 2700/98	Guideline
Volume of Sales (12)	Volume of Sales	Per species	Ton (13)		
Employment	Number of persons employed	By Gender	Number	16 11 0	
	FTE National (14)	By Gender (15)	Number	16 14 0	
Number of enterprises	Number of enterprises	By size category where the number of persons employed is: (SBS 16.11.0) is: 1. ≤ 5 2. 6-10 3. > 10	Number	11 11 0	

⁽¹⁾ Includes direct payments, e.g. compensation for stopping trading, refunds of fuel duty or similar lump sum compensation payments; excludes social benefit payments and indirect subsidies, e.g. reduced duty on inputs such as fuel or investment subsidies.

- (2) Including social security costs.
- (3) Chosen methodology should be explained by the Member State in their National Programme.
- (4) Packaging costs are included in other operational costs.
- (5) Chosen methodology should be explained by the Member State in their National Programme.
- (6) ESA refers to European System of Accounts 1995 (EU Reg. 2223/96, EU Reg. 1267/2003. Eurostat ESA 1995 manual).
- (7) Interest costs of capital; interest on the national 5 year Government bonds may be used as proxy for financial costs.
- (8) At the end of the year.
- (9) Purchase and Sale of assets during the year.
- (10) At the end of the fiscal year.
- (11) The variable for raw material volume should correspond to the variable on raw material cost.
- (12) The variable for production volume should correspond to the variable on turnover value.
 (13) Conversion factors from numbers to tonnes should be stated in the National Programme.
- (14) FTE National is number of full time equivalent estimated from a national threshold.
- (15) Optional.

Appendix XI

Sector segmentation to be applied for the collection of aquaculture data

		Fish farming techniques (1)						
		Land based farms		Cages	1	Shellfish farming techniques (¹)		
	Hatcheries and Nurseries (²)	On growing	Combined (3)	Cages (4)	Rafts	Long line	Bottom (5)	Other
Salmon								
Trout								
Sea bass & Sea bream								
Carp								
Other fresh water fish								
Other marine fish								
Mussel								
Oyster								
Clam								
Other shellfish								

⁽¹⁾ Enterprises should be segmented according to their main farming technique.

⁽²⁾ Hatcheries and nurseries are defined as places for the artificial breeding, hatching and rearing through the early life stages of aquatic animals. For statistical purposes, hatcheries are limited to the production of fertilised eggs. Further juveniles stages of aquatic animals are considered being produced in nurseries. When hatcheries and nurseries are closely associated, statistics shall refer only to the latest juvenile stage produced (COM(2006) 864).

⁽³⁾ Combined is defined as enterprises using hatcheries, nurseries and on growing techniques.

⁽⁴⁾ Cages are defined as open or covered enclosed structures constructed with net, mesh or any porous material allowing natural water interchange. These structures may be floating, suspended or fixed to the substrate but still permitting water interchange from below (COM(2006) 864).

^{(5) &#}x27;Bottom' techniques cover shellfish farming in inter-tidal areas (directly on the ground or surelevated).

Appendix XII

List of economic variables for the processing industry sector

Variable group	Variable	Specification	Unit	Definition Structural Business Statistics (SBS) Regulation (EC) No 2700/98	Guidelines
Income	Turnover		Euro	12 11 0	
	Subsidies (1)		Euro		
	Other income		Euro		
Personnel Costs	Wages and salaries of staff (2)		Euro	13 31 0	
	Imputed value of unpaid labour (3)		Euro		
Energy costs	Energy costs		Euro	20 11 0	SBS 13 11 0
Raw material costs	Purchase of fish and other raw material for production		Euro		SBS 13 11 0
Other operational costs	Other operational costs (4)		Euro		SBS 13 11 0
Capital costs (5)	Depreciation of capital		Euro		ESA (6) 6.02. to 6.05.
	Financial costs, net (7)		Euro		
Extraordinary costs, net	Extraordinary costs, net		Euro		
Capital value (8)	Total value of assets		Euro	43 30 0	ESA 7.09 to 7.24
Net Investments	Net Investments (9)		Euro	15 11 0 15 21 0	ESA 3.102. to 3.111.
Debt (10)	Debt		Euro		

Variable group	Variable	Specification	Unit	Definition Structural Business Statistics (SBS) Regulation (EC) No 2700/98	Guidelines
Employment	Number of persons employed	By Gender	Number	16 11 0	
	FTE National (11)	By Gender (12)	Number	16 14 0	
Number of enterprises	Number of enterprises	By size category where the number of persons employed (16.11.0) is: 1. ≤ 10 2. 11-49 3. 50-249 4. > 250	Number	11 11 0	

- (1) Includes direct payments. Excludes social benefit payments and indirect subsidies.
- (2) Including social security costs.
- (3) Chosen methodology should be explained by the Member State in their National Programme.
- (4) Packaging costs are included in other operational costs.

- (5) Chosen methodology should be explained in the National Programme.
 (6) ESA refers to European System of Accounts 1995 (EU Reg. 2223/96, EU Reg. 1267/2003. Eurostat ESA 1995 manual).
 (7) Interest costs of capital; interest on the national 5 years Government bonds may be used as proxy for financial costs.
- (8) Total accumulated value of all net investments in the enterprise at the end of the year.
- (9) Purchase and Sale of assets during the year.
- (10) At the end of the year.
- (11) Methodology should be as discussed in the report of Study FISH/2005/14, 'LEI WAGENINGENUR Co-ordinator, 2006. Calculation of labour including full-time equivalent (FTE) in fisheries Study No FISH/2005/14, 142 p'.
- (12) Optional.

Definition of environmental indicators to measure the effects of fisheries on the marine ecosystem

Appendix XIII

Code specification	Indicator (a)	Definition	Data required	Precision level	
1	Conservation status of fish species	Indicator of biodiversity to be used for synthesising, assessing and reporting trends in the biodiversity of vulnerable fish species	Species, length and abundance from fisheries- independent research survey(s) for relevant marine region. Accurate reporting of these indicators requires that all species that	Research survey should cover largest proportion of the marine region over the longest available time period. The indicator would be survey specific. The methods require that surveys are conducted annually in the same area with a standard gear.	
2	Proportion of large fish	Indicator for the proportion of large fish by weight in the assemblage, reflecting the size structure and life history composition of the fish community.	contribute to the indicator are consistently and reliably identified. Survey catches shall be fully sorted (not sub-sampled) to ensure that all individuals of every species that contributes to the indicator are recorded but sub sampling is allowed in length measurements where duly		
3	Mean maximum length of fishes	Indicator for the life history composition of the fish community	justified.		
4	Size at maturation of exploited fish species	Indicator of the potential 'genetic effects' on a population	Individual measurements of age, length, sex and maturity from fisheries-independent research survey(s) for relevant marine region.	At least 100 individuals per age class but more fish will improve the power of this indicator.	
5	Distribution of fishing activities	Indicator of the spatial extent of fishing activity. It would be reported in conjunction with the indicator for 'Aggregation of fishing activity'.	Position and vessel registration data based on VMS Available within two months of position reports being received, with all positions linked to the	Preference for position reports every half hour.	
6	Aggregation of fishing activities	Indicator of the extent to which fishing activity is aggregated. It would be reported in conjunction with the indicator for 'Distribution of fishing activity'.	level 6 for the metier classification (see Appendix IV (1-5)). This does not include vessels below 15 m.		
7	Areas not impacted by mobile bottom gears	Indicator of the area of seabed that has not been impacted by mobile bottom fishing gears in the last year. It responds to changes in the distribution of bottom fishing activity resulting from catch controls, effort controls or technical measures (including MPA established in support of conservation legislation) and to the development of any other human activities that displace fishing activity (e.g. wind farms).			

4		

Code specification	Indicator (a)	Definition	Data required	Precision level
8	Discarding rates of commercially exploited species	Indicator of the rate of discarding of commercially exploited species in relation to landings.	Species, length and abundance of catches and discards based on respectively logbooks and observer trips processed separately. Data linked to the level 6 for the metier classification (see Appendix IV (1-5)).	As specified in this Community Programme for discards
9	Fuel efficiency of fish capture	Indicator of the relationship between fuel consumption and the value of landed catch. It will provide information on trends in the fuel efficiency of different fisheries.	1 0 /	As specified in this Community Programme.

⁽a) See Commission Staff Working Document (SEC 2008/449) for specification and calculation of the indicators.