

**COMMISSION IMPLEMENTING DECISION (EU) 2016/1251****of 12 July 2016****adopting a multiannual Union programme for the collection, management and use of data in the fisheries and aquaculture sectors for the period 2017-2019***(notified under document C(2016) 4329)*

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 <sup>(1)</sup>, and in particular Article 3 thereof,

Whereas:

- (1) Pursuant to Article 3 of Regulation (EC) No 199/2008, a multiannual Union programme for the collection, management and use of data in the fisheries sector is to be adopted for a period of three years for the purpose of ensuring uniform application of the obligation to collect and manage data.
- (2) The current multiannual Union programme is based on the multiannual programme for the period 2011-2013, that was prolonged by Commission Implementing Decision C(2013)5243 in order to bridge the period between the adoption of Regulation (EU) No 1380/2013 of the European Parliament and of the Council <sup>(2)</sup> and 31 December 2016. It is therefore necessary to establish a multiannual Union programme for a three-year period starting 1 January 2017.
- (3) Pursuant to Article 25 of Regulation (EU) No 1380/2013, the Member States shall collect biological, environmental, technical and socioeconomic data necessary for fisheries management. The multiannual Union programme is necessary for Member States to specify and plan their data collection activities in their national work plans. In accordance with Article 21 of Regulation (EU) No 508/2014 of the European Parliament and of the Council <sup>(3)</sup> these national work plans have to be submitted to the Commission by 31 October preceding the year from which the work plan is to apply.
- (4) The multiannual Union programme should define data collection requirements in accordance with Article 1 of Regulation (EC) No 199/2008. It should contain the elements needed for the implementation of the common fisheries policy in as far as they are not already required under other legislative frameworks.
- (5) In order to achieve the objectives of the reformed common fisheries policy set out in Article 2 of Regulation (EU) No 1380/2013, it is necessary to update the Union data requirements for sound scientific advice for the period starting from 1 January 2017.
- (6) Moreover, new international obligations and commitments imposed upon Member States and the Union by multilateral and bilateral agreements with regard to fisheries require incorporation of certain requirements concerning data collection into the multiannual Union programme, in particular those stemming from Sustainable Fisheries Partnership Agreements (SFPAs).

<sup>(1)</sup> OJ L 60, 5.3.2008, p. 1.

<sup>(2)</sup> Regulation (EU) No 1380/2013 of the European Parliament and of the Council of 11 December 2013 on the Common Fisheries Policy, amending Council Regulations (EC) No 1954/2003 and (EC) No 1224/2009 and repealing Council Regulations (EC) No 2371/2002 and (EC) No 639/2004 and Council Decision 2004/585/EC (OJ L 354, 28.12.2013, p. 22).

<sup>(3)</sup> Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund and repealing Council Regulations (EC) No 2328/2003, (EC) No 861/2006, (EC) No 1198/2006 and (EC) No 791/2007 and Regulation (EU) No 1255/2011 of the European Parliament and of the Council (OJ L 149, 20.5.2014, p. 1).

- (7) Evaluation of the current framework for the collection, management and use of data in the fisheries sector and subsequent stakeholder consultations have indicated that the multiannual Union programme should focus on what data are required from Member States, rather than on the methods to collect them. Methodological requirements shall be described in Member States' work plans to be approved by the Commission, following close cooperation between Member States at the level of marine regions.
- (8) The Union programme for the period 2017-2019 should therefore take account of all these elements and of the objectives of Regulation (EU) No 1380/2013, in particular Articles 2 and 25 thereof, to the extent possible within the current legal framework provided by Regulation (EC) No 199/2008. Where new data requirements go beyond the current legislative framework, they should be optional. Once a new legal framework amending Regulation (EC) No 199/2008 will enter into force, the Commission may amend the multiannual Union programme, if necessary, to reflect any new data collection requirements.
- (9) The Commission has taken account of the recommendations resulting from consultation with the Regional Coordination Meetings referred to in Article 5 of Regulation (EC) No 199/2008 and the Scientific, Technical and Economic Committee for Fisheries (STECF). Other appropriate consultative scientific bodies such as the International Council for the Exploration of the Seas (ICES) have also been consulted, as well as representatives of Member States gathered in dedicated expert groups.
- (10) For reasons of legal certainty, Implementing Decision C(2013)5243 should be repealed.
- (11) 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 Union programme for the collection, management and use of data in the fisheries sector for the period 2017-2019, as referred to in Article 3 of Regulation (EC) No 199/2008, is set out in the Annex to this Decision.

*Article 2*

Implementing Decision C(2013)5243 is repealed with effect from 1 January 2017.

*Article 3*

This Decision is addressed to the Member States.

Done at Brussels, 12 July 2016.

*For the Commission*  
Karmenu VELLA  
*Member of the Commission*

## ANNEX

## CHAPTER I

## Definitions

For the purpose of this Annex, definitions in Council Regulation (EC) No 1224/2009 <sup>(1)</sup>, Commission Implementing Regulation (EU) No 404/2011 <sup>(2)</sup>, and Regulation (EU) No 1380/2013 of the European Parliament and of the Council <sup>(3)</sup> shall apply. In addition, the following definitions shall also apply:

- (1) **Active vessels:** vessels that have been engaged in any fishing operation (one day or more) during a calendar year. A vessel that has not been engaged in fishing operations during a year is considered 'inactive'.
- (2) **Anadromous species:** living aquatic resources with lifecycle starting by hatching in freshwater, migrating to saltwater, returning and finally spawning in freshwater.
- (3) **Catadromous species:** living aquatic resources with lifecycle starting by hatching in saltwater, migrating to freshwater, returning and finally spawning in saltwater.
- (4) **Catch fraction:** a part of the total catch, such as the part of the catch landed above the minimum conservation reference size, the part landed below the minimum conservation reference size, the part discarded below the minimum conservation reference size, *de minimis* discards or discards.
- (5) **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.
- (6) **Fishing days:** any calendar day at sea in which a fishing operation takes place, without prejudice to the international obligations of the Union and its Member States. One fishing trip can contribute to both the sum of the fishing days for passive gears and the sum of the fishing days for active gears on that trip.
- (7) **Fishing ground:** (group of) geographical units where fishing takes place. These units shall be agreed at marine region level on the basis of existing areas defined by regional fisheries management organisations or scientific bodies.
- (8) **Fleet segment:** group of vessels with the same length class (LOA, length overall) and predominant fishing gear during the year.
- (9) **Metier:** a group of fishing operations targeting a similar (assemblage of) species, using similar gear <sup>(4)</sup>, during the same period of the year and/or within the same area and which are characterised by a similar exploitation pattern.
- (10) **Research surveys at sea:** trips carried out on a research vessel, or a vessel dedicated to scientific research for stock and ecosystem monitoring, and designated for this task by the body in charge of the implementation of the national work plan established in accordance with Article 21 of Regulation (EU) No 508/2014.

<sup>(1)</sup> Council Regulation (EC) No 1224/2009 of 20 November 2009 establishing a Community control system for ensuring compliance with the rules of the common fisheries policy, amending Regulations (EC) No 847/96, (EC) No 2371/2002, (EC) No 811/2004, (EC) No 768/2005, (EC) No 2115/2005, (EC) No 2166/2005, (EC) No 388/2006, (EC) No 509/2007, (EC) No 676/2007, (EC) No 1098/2007, (EC) No 1300/2008, (EC) No 1342/2008 and repealing Regulations (EEC) No 2847/93, (EC) No 1627/94 and (EC) No 1966/2006 (OJ L 343, 22.12.2009, p. 1).

<sup>(2)</sup> Commission Implementing Regulation (EU) No 404/2011 of 8 April 2011 laying down detailed rules for the implementation of Council Regulation (EC) No 1224/2009 establishing a Community control system for ensuring compliance with the rules of the Common Fisheries Policy (OJ L 112, 30.4.2011, p. 1).

<sup>(3)</sup> Regulation (EU) No 1380/2013 of the European Parliament and of the Council of 11 December 2013 on the Common Fisheries Policy, amending Council Regulations (EC) No 1954/2003 and (EC) No 1224/2009 and repealing Council Regulations (EC) No 2371/2002 and (EC) No 639/2004 and Council Decision 2004/585/EC (OJ L 354, 28.12.2013, p. 22).

<sup>(4)</sup> As specified in Annex XI of Regulation (EU) No 404/2011.

## CHAPTER II

### Data collection methods

Data collection methods and quality shall be appropriate for the intended purposes defined in Article 25 of Regulation (EU) No 1380/2013 and shall follow the best practices and relevant methodologies advised by the relevant scientific bodies. To this end, the methods and the result of the application of the methods shall be examined at regular intervals by independent scientific bodies in order to verify their appropriateness with respect to the management of the common fisheries policy.

## CHAPTER III

### Data requirements

#### 1. Data sets

1.1. Member States shall establish, as part of the work plans drawn up in accordance with Article 21 of Regulation (EU) No 508/2014, the data to be collected amongst the following sets as specified in points 2 to 7 of this Chapter:

- (a) biological data, by catch fraction, on stocks caught by Union commercial fisheries in Union and outside Union waters and by recreational fisheries in Union waters;
- (b) data to assess the impact of Union fisheries on the marine ecosystem in Union waters and outside Union waters;
- (c) detailed data on the activity of Union fishing vessels in Union waters and outside Union waters as reported under Regulation (EC) No 1224/2009;
- (d) social and economic data on fisheries <sup>(1)</sup>;
- (e) social, economic and environmental data on aquaculture;

1.2. The data to be collected shall be established in accordance with Articles 3, 4 and 5 of Regulation (EC) No 199/2008 and taking into account the thresholds set out in Chapter V of this Annex.

1.3. Data shall be collected to enable valid estimates to be derived for the type of fisheries, temporal periods and areas based on end-user needs agreed at marine region level. The frequency of data collection is to be coordinated at marine region level, unless stated otherwise in this Annex and corresponding tables.

#### 2. **Biological data on stocks caught by Union commercial fisheries in Union and outside Union waters and by recreational fisheries in Union waters.**

Those data shall consist of the following:

- (a) Catch quantities by species and biological data from individual specimens enabling the estimation of:
  - (i) For commercial fisheries, volume and length frequency of all catch fractions (including discards and unwanted catches) for the stocks listed in Tables 1A, 1B and 1C, reported at the aggregation level 6 as set out in Table 2. The temporal resolution shall be coordinated at marine region level based on end-user needs;
  - (ii) For commercial fisheries, mean-weight and age distribution of catches of the stocks listed in Table 1A, 1B and 1C. The selection of stocks from which these variables have to be collected and the temporal resolution shall be coordinated at marine region level based on end-user needs;

<sup>(1)</sup> Data on the processing industry may be collected on a voluntary base, in that case the segmentation and variable in Table 11 may be used.

- (iii) For commercial fisheries, sex-ratio, maturity and fecundity data for stocks listed in Tables 1A, 1B and 1C of catches at frequencies needed for scientific advice. The selection of stocks from which these variables have to be collected and the temporal resolution shall be coordinated at marine region level based on end-user needs;
  - (iv) For recreational fisheries, annual volume (numbers and weights or length) of catches and releases for the species listed in Table 3 and/or the species identified at marine region level as needed for fisheries management purposes. End-user needs for age or other biological data as specified in paragraphs (i)-(iii) shall be evaluated for recreational fisheries at marine region level.
- (b) In addition to data collected under point (a), data on anadromous and catadromous species listed in Table 1E caught by commercial fisheries during the freshwater part of their lifecycle, irrespective of the way these fisheries are undertaken, as follows:
- (i) stock-related variables (for individual specimens, on age, length, weight, sex, maturity and fecundity, by life stage, but further specified on a species and regional basis); and
  - (ii) annual catch quantities by age class or life stage.
- (c) In addition:
- as regards eel, information (e.g. data, estimates, relative trends, etc.) collected annually in at least one river basin per eel management unit on:
- (i) the abundance of recruits;
  - (ii) the abundance of the standing stock (yellow eel); and
  - (iii) the number or weight and sex ratio of emigrating silver eels;
- and as regards all wild salmon: information collected annually — unless agreed otherwise at regional level — on the abundance of smolt and parr and number of ascending individuals.
- The designation of rivers to be monitored for eel and salmon shall be defined at regional level. The selection of stocks from which these variables have to be collected shall be coordinated at regional level based on end-user needs.

### 3. Data to assess the impact of Union fisheries on marine ecosystems in Union waters and outside Union waters

Those data shall consist of the following:

- (a) For all types of fisheries, incidental by-catch of all birds, mammals and reptiles and fish protected under Union legislation and international agreements, including the species listed in Table 1D, including absence in the catch, during scientific observer trips on fishing ships or by the fishers themselves through logbooks.

Where data collected during observer trips are not considered to provide sufficient data on incidental by-catch for end-user needs, other methodologies, shall be implemented by Member States. The selection of these methodologies shall be coordinated at marine region level and be based on end-user needs.

- (b) Data to assist in the assessment of the impact of fisheries in Union waters and outside Union waters on marine habitats.

The variables used for assessing the impact of fisheries on marine habitat shall be those recorded under Regulation (EC) No 1224/2009. Data shall be disaggregated at fishing activity level 3 <sup>(1)</sup>, unless a lower level of aggregation is required at regional level, in particular in the case of marine protected areas.

<sup>(1)</sup> See Table 2.

When data recorded under Regulation (EC) No 1224/2009 are not at the correct resolution or are not of sufficient quality or coverage for the intended scientific use, they shall be collected in an alternative way by using appropriate sampling methods. Data as recorded under Regulation (EC) No 1224/2009 are to be made available at the appropriate level of aggregation to the national institutions implementing the work plans.

- (c) Data for estimating the level of fishing and the impact of fishing activities on marine biological resources and on marine ecosystems, such as effects on non-commercial species, predator-prey relationships and natural mortality of fish species in each marine region.

These data shall be first assessed within pilot studies. Based on the outcomes of these pilot studies, Member States shall determine future data collection specific for each marine region, coordinated at marine region level and based on end-user needs.

**4. Detailed data on the activity of Union fishing vessels <sup>(1)</sup> in Union waters and outside Union waters as recorded under Regulation (EC) No 1224/2009.**

Data to assess the activity of Union fishing vessels in Union waters and outside Union waters consist of the variables as indicated in Table 4. Data as recorded, reported and transmitted under Regulation (EC) No 1224/2009 are to be made available in the form of primary data to the national institutions implementing the work plans. When these data are not to be collected under Regulation (EC) No 1224/2009 or when data collected under Regulation (EC) No 1224/2009 are not at the correct resolution or are not of sufficient quality or coverage for the intended scientific use, they shall be collected in an alternative way by using appropriate sampling methods. These methods shall allow for the estimation of variables listed in Table 4 at the lowest relevant geographic level by fleet segment (Table 5a) and métier level 6 (Table 2).

**5. Social and economic data on fisheries to enable the assessment of the social and economic performance of the Union fisheries sector.**

Those data shall consist of the following:

- (a) Economic variables as indicated in Table 5A according to the sector segmentation of Table 5B and according to the supraregions as defined in Table 5C.

The population shall be all active and inactive vessels registered in the Union Fishing Fleet Register as defined in Commission Regulation (EC) No 26/2004 <sup>(2)</sup> on 31 December of the reporting year and vessels that do not appear on the Register at that date but have fished at least one day during the reporting year

For inactive vessels only capital value and capital cost shall be collected.

In cases where there is a risk of natural persons and/or legal entities being identified clustering may be applied to report economic variables in order to ensure statistical confidentiality. Clustering may also be used if necessary to design a statistically sound sampling plan. Such a clustering scheme shall be consistent over time.

Economic data shall be collected on an annual basis.

- (b) Social variables as indicated in Table 6.

Social data shall be collected every three years starting in 2018.

Data on employment by education level and employment by nationality may be collected on the basis of pilot studies.

<sup>(1)</sup> Including specific requirements for RFMOs such as specified in Regulation (EU) No 1343/2011 of the European Parliament and of the Council of 13 December 2011 on certain provisions for fishing in the GFCM (General Fisheries Commission for the Mediterranean) Agreement area and amending Council Regulation (EC) No 1967/2006 concerning management measures for the sustainable exploitation of fishery resources in the Mediterranean Sea (OJ L 347, 30.12.2011, p. 44).

<sup>(2)</sup> Commission Regulation (EC) No 26/2004 of 30 December 2003 on the Community fishing fleet register (OJ L 5, 9.1.2004, p. 25).

6. **Social, economic and environmental data on marine aquaculture, and optionally on freshwater aquaculture, to enable the assessment of the social, economic and environmental performance of the Union aquaculture sector.**

Those data shall consist of the following:

- (a) Economic variables as indicated in Table 7 according to the sector segmentation set out in Table 9.

The population shall be all enterprises whose primary activity is defined according to the European classification of economic activities NACE <sup>(1)</sup> codes 03.21 and 03.22 and who operate for profit.

Economic data shall be collected on an annual basis.

- (b) Social variables as indicated in Table 6.

Social data shall be collected every three years starting in 2018.

Data on employment by education level and employment by nationality may be collected on the basis of pilot studies.

- (c) Environmental data on aquaculture as indicated in Table 8 to enable the assessment of aspects of its environmental performance.

Environmental data may be collected on the basis of pilot studies and extrapolated to indicate totals relevant to the total volume of fish produced in the Member State.

Environmental data shall be collected every two years.

#### CHAPTER IV

##### Research surveys at sea

1. At least all research surveys at sea listed in Table 10 shall be carried out, unless a review of surveys leads to the conclusion that a survey is no longer appropriate for informing stock assessment and fisheries management. Based on the same scientific review criteria, new surveys can be added to this table.
2. Member States shall set out, as part of the work plans defined in Article 21 of Regulation (EU) No 508/2014, the research surveys at sea to be carried out and shall be responsible for these surveys.
3. Member States' respective contribution to international research surveys shall be coordinated within the same marine region.
4. Member States shall guarantee within their national work plans continuity with previous survey designs.

#### CHAPTER V

##### Thresholds

1. This Chapter shall apply to Union fisheries.
2. No biological data need to be collected if, for a certain fish stock or species:
  - (a) a Member State's share of the related total allowable catch (TAC) is less than 10 % of the total of the Union; or

<sup>(1)</sup> Regulation (EC) No 1893/2006 of the European Parliament and of the Council of 20 December 2006 establishing the statistical classification of economic activities NACE Revision 2 and amending Council Regulation (EEC) No 3037/90 as well as certain EC Regulations on specific statistical domains (OJ L 393, 30.12.2006, p. 1).

- (b) in case no TAC is fixed, the total landings of a Member State of a stock or species are less than 10 % of the average total EU landings in the previous 3 years; or
- (c) the total annual landings of a Member State of a species is less than 200 tonnes. For species with a specific management need, a lower threshold may be defined at marine region level.

When the sum of the relevant quotas of several Member States, whose share of a TAC is less than 10 %, is higher than 25 % of the share of the TAC for a certain stock, the 10 % threshold referred to under (a) shall not apply and Member States shall ensure task-sharing at regional level in order to ensure that the stock is covered by sampling in concordance with end-user needs.

No threshold shall apply to large pelagic species and anadromous and catadromous species.

- 3. Without prejudice to more specific provisions relating to international obligations under RFMOs, no biological data need to be collected if, for a certain internationally exploited fish stock other than stocks of large pelagic or highly migratory species, the Union's share is less than 10 %.
- 4. Member States shall provide catch estimates from existing recreational fishery surveys, including those carried out under the data collection framework or from an additional pilot study, within two years from the date on which this Decision takes effect. These surveys shall allow assessment of the share of catches from recreational fisheries in relation to commercial catches for all species in a marine region for which recreational catch estimates are required under this multiannual Union programme. The subsequent design and extent of national surveys of recreational fisheries, including any thresholds for data collection, shall be coordinated at marine region level and shall be based on end-user needs.

No threshold shall apply to recreational catches of fish stocks which are subject to recovery or multiannual management plans such as those applying to large pelagic species and highly migratory species.

- 5. No social and economic data on aquaculture need to be collected if the total production of the Member State is less than 1 % of the total Union production volume and value. No data need to be collected on aquaculture for species accounting for less than 10 % of the Member State's aquaculture production by volume and value. Additionally, Member States with a total production of less than 2,5 % of the total Union aquaculture production volume and value may define a simplified methodology such as pilot studies with a view to extrapolate the data required for species accounting for more than 10 % of the Member States' aquaculture production by volume and value.

The reference data shall be the Member States' latest submission under Regulation (EC) No 762/2008 of the European Parliament and of the Council <sup>(1)</sup> and the corresponding data published by Eurostat.

- 6. No environmental data on aquaculture need to be collected where the total aquaculture production of the Member State is less than 2,5 % of the total Union aquaculture production volume and value.

The reference data shall be the Member States' latest submission under Regulation (EC) No 762/2008 of the European Parliament and of the Council, and corresponding data published by Eurostat.

- 7. A Member State's participation (physical or financial) in research surveys at sea listed in Table 10 is not mandatory when its share of a Union TAC of the survey target species is below a threshold of 3 %. Where no TAC is set, a Member State's participation (physical or financial) in research surveys at sea is not mandatory when its share of the total Union landings of the preceding 3 years of a stock or species is below a threshold of 3 %. Thresholds for multispecies and ecosystem surveys may be defined at marine region level.

- 8. Notwithstanding points 2 to 7, within the same marine region, Member States may agree on alternative thresholds.

<sup>(1)</sup> Regulation (EC) No 762/2008 of the European Parliament and of the Council of 9 July 2008 on the submission by Member States of statistics on aquaculture and repealing Council Regulation (EC) No 788/96 (OJ L 218, 13.8.2008, p. 1).



## BIOLOGICAL DATA

Table 1A

**Stocks in Union waters**

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
East Arctic, Norwegian Sea and Barents Sea		
European eel	<i>Anguilla anguilla</i>	I, II
Tusk	<i>Brosme brosme</i>	I, II
Atlanto-Scandian herring	<i>Clupea harengus</i>	I, II,
Cod	<i>Gadus morhua</i>	I, II
Capelin	<i>Mallotus villosus</i>	I, II
Haddock	<i>Melanogrammus aeglefinus</i>	I, II
Blue whiting	<i>Micromesistius poutassou</i>	I-II
Northern shrimp	<i>Pandalus borealis</i>	I, II
Saithe	<i>Pollachius virens</i>	I, II
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	I, II
Salmon	<i>Salmo salar</i>	I, II
Mackerel	<i>Scomber scombrus</i>	II,
Golden redfish	<i>Sebastes marinus.</i>	I, II
Deep sea redfish	<i>Sebastes mentella.</i>	I, II
Horse mackerel	<i>Trachurus trachurus</i>	IIa,
Skagerrak and Kattegat		
Sand eel	<i>Ammodytidae</i>	IIIa
European eel	<i>Anguilla anguilla</i>	IIIa
Herring	<i>Clupea harengus</i>	IIIa/22-24, IIIa
Roundnose grenadier	<i>Coryphaenoides rupestris</i>	IIIa
Grey gurnard	<i>Eutrigla gurnardus</i>	IIIa
Red gurnard	<i>Aspitrigla cuculus</i>	IIIa,

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Cod	<i>Gadus morhua</i>	IIIaN
Cod	<i>Gadus morhua</i>	IIIaS
Witch flounder	<i>Glyptocephalus cynoglossus</i>	IIIa
Dab	<i>Limanda limanda</i>	IIIa
Haddock	<i>Melanogrammus aeglefinus</i>	IIIa
Whiting	<i>Merlangius merlangus</i>	IIIa
Hake	<i>Merluccius merluccius</i>	IIIa,
Blue whiting	<i>Micromesistius poutassou</i>	IIIa
Norway lobster	<i>Nephrops norvegicus</i>	Functional unit
Northern shrimp	<i>Pandalus borealis</i>	IIIa
Plaice	<i>Pleuronectes platessa</i>	IIIa
Saithe	<i>Pollachius virens</i>	IIIa
Salmon	<i>Salmo salar</i>	IIIa
Turbot	<i>Psetta maxima</i>	IIIa
Mackerel	<i>Scomber scombrus</i>	IIIa
Brill	<i>Scophthalmus rhombus</i>	IIIa
Sole	<i>Solea solea</i>	IIIa
Sprat	<i>Sprattus sprattus</i>	IIIa
Norway pout	<i>Trisopterus esmarki</i>	IIIa
All commercial sharks, rays & skates <sup>(4)</sup>	<i>Selachii, Rajidae</i>	IIIa

## Baltic Sea —

European eel	<i>Anguilla anguilla</i>	22-32
Herring	<i>Clupea harengus</i>	22-24/25-29, 32/30/31/Gulf of Riga
Common whitefish/houting	<i>Coregonus lavaretus</i>	IIIId
Vendace	<i>Coregonus albula</i>	22-32
Cod	<i>Gadus morhua</i>	22-24/25-32

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Dab	<i>Limanda limanda</i>	22-32
Perch	<i>Perca fluviatilis</i>	IIIId
Flounder	<i>Platichthys flesus</i>	22-32
Plaice	<i>Pleuronectes platessa</i>	22-32
Turbot	<i>Psetta maxima</i>	22-32
Salmon	<i>Salmo salar</i>	22-31/32
Sea trout	<i>Salmo trutta</i>	22-32
Pike-perch	<i>Sander lucioperca</i>	IIIId
Brill	<i>Scophthalmus rhombus</i>	22-32
Sole	<i>Solea solea</i>	22
Sprat	<i>Sprattus sprattus</i>	22-32

North Sea and Eastern Channel

Sand eel	<i>Ammodytidae</i>	IV
Catfish	<i>Anarhichas</i> spp.	IV
European eel	<i>Anguilla anguilla</i>	IV, VIIId
Argentine	<i>Argentina</i> spp.	IV
Grey gurnard	<i>Eutrigla gurnardus</i>	IV
Tusk	<i>Brosme brosme</i>	IV
Herring	<i>Clupea harengus</i>	IV, VIIId
Common shrimp	<i>Crangon crangon</i>	IV, VIIId
Sea bass	<i>Dicentrarchus labrax</i>	IV, VIIId
Grey gurnard	<i>Eutrigla gurnardus</i>	IV
Cod	<i>Gadus morhua</i>	IV, VIIId
Witch flounder	<i>Glyptocephalus cynoglossus</i>	IV
Blue-mouth rockfish	<i>Helicolenus dactylopterus</i>	IV
Four-spot megrim	<i>Lepidorhombus boscii</i>	IV, VIIId

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Megrim	<i>Lepidorhombus whiffiagonis</i>	IV, VIIId
Dab	<i>Limanda limanda</i>	IV, VIIId
Black-bellied angler	<i>Lophius budegassa</i>	IV, VIIId
Anglerfish	<i>Lophius piscatorius</i>	IV
Roughhead grenadier	<i>Macrourus berglax</i>	IV
Haddock	<i>Melanogrammus aeglefinus</i>	IV
Whiting	<i>Merlangius merlangus</i>	IV, VIIId
Hake	<i>Merluccius merluccius</i>	IV VII
Blue whiting	<i>Micromesistius poutassou</i>	IV, VIIId
Lemon sole	<i>Microstomus kitt</i>	IV, VIIId
Blue ling	<i>Molva dypterygia</i>	IV
Ling	<i>Molva molva</i>	IV
Red mullet	<i>Mullus barbatus</i>	IV, VIIId
Striped red mullet	<i>Mullus surmuletus</i>	IV, VIIId
Norway lobster	<i>Nephrops norvegicus</i>	all functional units
Northern shrimp	<i>Pandalus borealis</i>	IVa East/IVa/IV
Common scallop	<i>Pecten maximus</i>	VIIId
Greater forkbeard	<i>Phycis blennoides</i>	IV
Forkbeard	<i>Phycis phycis</i>	IV
Flounder	<i>Platichthys flesus</i>	IV
Plaice	<i>Pleuronectes platessa</i>	IV
Plaice	<i>Pleuronectes platessa</i>	VIIId
Saithe	<i>Pollachius virens</i>	IV
Turbot	<i>Psetta maxima</i>	IV, VIIId
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	IV

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Salmon	<i>Salmo salar</i>	IV, VIIId
Mackerel	<i>Scomber scombrus</i>	IV, VIIId
Brill	<i>Scophthalmus rhombus</i>	IV, VIIId
Redfish	<i>Sebastes mentella</i> .	IV
Sole	<i>Solea solea</i>	IV
Sole	<i>Solea solea</i>	VIIId
Sprat	<i>Sprattus sprattus</i>	IV/VIIId
Horse mackerel	<i>Trachurus trachurus</i>	IV, VIIId
Tub gurnard	<i>Trigla lucerna</i>	IV
Norway pout	<i>Trisopterus esmarki</i>	IV
John Dory	<i>Zeus faber</i>	IV, VIIId
All commercial sharks, rays & skates <sup>(4)</sup>	<i>Selachii, Rajidae</i>	IV, VIIId
North-East Atlantic and Western Channel		
Smoothhead	<i>Alepocephalus bairdii</i>	VI, XII
Sand eel	<i>Ammodytidae</i>	VIa
Boarfish	<i>Capros aper</i>	V, VI,VII
Scallop	<i>Pecten maximus</i>	IV, VI, VII
Queen scallop	<i>Aequipecten opercularis</i>	VII
Spider crab	<i>Maja squinado</i>	V, VI,VII
European eel	<i>Anguilla anguilla</i>	all areas
Scabbardfish	<i>Aphanopus spp.</i>	all areas
Argentine	<i>Argentina spp.</i>	all areas
Meagre	<i>Argyrosomus regius</i>	all areas
Red gurnard	<i>Aspitrigla cuculus</i>	all areas
Alfonsinos	<i>Beryx spp.</i>	all areas, excluding X and IXa
Alfonsinos	<i>Beryx spp.</i>	IXa and X

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Edible crab	<i>Cancer pagurus</i>	all areas
Herring	<i>Clupea harengus</i>	VIa/VIaN/ VIa S, VIIbc/VIIa/VIIj
Conger	<i>Conger conger</i>	all areas, excluding X
Conger	<i>Conger conger</i>	X
Roundnose grenadier	<i>Coryphaenoides rupestris</i>	all areas
Kitefin shark	<i>Dalatias licha</i>	All areas
Common stingray	<i>Dasyatis pastinaca</i>	VII, VIII
Birdbeak dogfish	<i>Deania calcea</i>	V, VI, VII, IX, X, XII
Sea bass	<i>Dicentrarchus labrax</i>	all areas, excluding IX
Sea bass	<i>Dicentrarchus labrax</i>	IX
Wedge sole	<i>Dicologlossa cuneata</i>	VIIIc, IX
Anchovy	<i>Engraulis encrasicolus</i>	IXa (only Cádiz)
Anchovy	<i>Engraulis encrasicolus</i>	VIII
Velvet belly	<i>Etmopterus spinax</i>	VI, VII, VIII
Grey gurnard	<i>Eutrigla gurnardus</i>	VIIId,e
Cod	<i>Gadus morhua</i>	Va/Vb/VIa/VIb/VIIa/VIIe-k
Witch	<i>Glyptocephalus cynoglossus</i>	VI, VII
Bluemouth rockfish	<i>Helicolenus dactylopterus</i>	all areas
Lobster	<i>Homarus gammarus</i>	all areas
Orange roughy	<i>Hoplostethus atlanticus</i>	all areas
Silver scabbardfish	<i>Lepidopus caudatus</i>	IXa
Four-spot megrim	<i>Lepidorhombus boscii</i>	VIIIc, IXa
Megrim	<i>Lepidorhombus whiffiagonis</i>	VI/VII, VIIIabd/VIIIc, IXa
Dab	<i>Limanda limanda</i>	VIIe/VIIa,f-h
Common squid	<i>Loligo vulgaris</i>	all areas, excluding VIIIc, IXa
Common squid	<i>Loligo vulgaris</i>	VIIIc, IXa

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Black-bellied angler	<i>Lophius budegassa</i>	IV, VI/VIIb-k, VIIIabd
Black-bellied angler	<i>Lophius budegassa</i>	VIIIc, IXa
Anglerfish	<i>Lophius piscatorius</i>	IV, VI/VIIb-k, VIIIabd
Anglerfish	<i>Lophius piscatorius</i>	VIIIc, IXa
Capelin	<i>Mallotus villosus</i>	XIV
Haddock	<i>Melanogrammus aeglefinus</i>	Va/Vb
Haddock	<i>Melanogrammus aeglefinus</i>	VIa/VIb/VIIa/VIIb-k
Whiting	<i>Merlangius merlangus</i>	VIII/IX, X
Whiting	<i>Merlangius merlangus</i>	Vb/VIa/VIb/VIIa/VIIe-k
Hake	<i>Merluccius merluccius</i>	IIIa, IV, VI, VII, VIIIab/VIIIc, IXa
Wedge sole	<i>Microchirus variegatus</i>	all areas
Blue whiting	<i>Micromesistius poutassou</i>	I-IX, XII, XIV
Lemon sole	<i>Microstomus kitt</i>	all areas
Blue ling	<i>Molva dypterygia</i>	all areas, excluding X
Spanish ling	<i>Molva macrophthalma</i>	X
Ling	<i>Molva molva</i>	all areas
Striped red mullet	<i>Mullus surmuletus</i>	all areas
Starry smooth-hound	<i>Mustelus asterias</i>	VI, VII, VIII, IX
Smooth-hound	<i>Mustelus mustelus</i>	VI, VII, VIII, IX
Blackspotted smooth-hound	<i>Mustelus punctulatus</i>	VI, VII, VIII, IX
Norway lobster	<i>Nephrops norvegicus</i>	VI Functional unit
Norway lobster	<i>Nephrops norvegicus</i>	VII Functional unit
Norway lobster	<i>Nephrops norvegicus</i>	VIII, IX Functional unit
Common octopus	<i>Octopus vulgaris</i>	all areas, excluding VIIIc, IXa
Common octopus	<i>Octopus vulgaris</i>	VIIIc, IXa

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Blackspot sea bream	<i>Pagellus bogaraveo</i>	IXa, X
Pandalid shrimps	<i>Pandalus</i> spp.	all areas
Deepwater rose shrimp	<i>Parapenaeus longirostris</i>	IXa
Greater forkbeard	<i>Phycis blennoides</i>	all areas
Forkbeard	<i>Phycis phycis</i>	all areas
Plaice	<i>Pleuronectes platessa</i>	VIIa/VIIe/VIIIfg
Plaice	<i>Pleuronectes platessa</i>	VIIbc/VIIh-k/VIII, IX, X
Pollack	<i>Pollachius pollachius</i>	all areas except IX, X
Pollack	<i>Pollachius pollachius</i>	IX, X
Saithe	<i>Pollachius virens</i>	Va/Vb/IV, IIIa, VI
Saithe	<i>Pollachius virens</i>	VII, VIII
Wreckfish	<i>Polyprion americanus</i>	X
Turbot	<i>Psetta maxima</i>	all areas
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	V, XIV/VI
Atlantic halibut	<i>Hippoglossus hippoglossus</i>	V, XIV
Salmon	<i>Salmo salar</i>	all areas
Sardine	<i>Sardina pilchardus</i>	VIIIabd/VIIIc, IXa
Spanish mackerel	<i>Scomber colias</i>	VIII, IX, X
Mackerel	<i>Scomber scombrus</i>	II, IIIa, IV, V, VI, VII, VIII, IX
Brill	<i>Scophthalmus rhombus</i>	all areas
Golden redfish	<i>Sebastes marinus</i>	ICES sub-areas V, VI, XII, XIV & NAFO SA 2 + (Div. 1F + 3K).
Deep sea redfish	<i>Sebastes mentella</i>	ICES sub-areas V, VI, XII, XIV & NAFO SA 2 + (Div. 1F + 3K)
Cuttlefish	<i>Sepia officinalis</i>	all areas
Sole	<i>Solea solea</i>	VIIa/VIIIfg
Sole	<i>Solea solea</i>	VIIbc/VIIhjk/IXa/VIIIc



Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Sole	<i>Solea solea</i>	VIIe
Sole	<i>Solea solea</i>	VIIIab
Sea breams (in plural)	<i>Sparidae</i>	all areas
Mediterranean horse mackerel	<i>Trachurus mediterraneus</i>	VIII, IX
Blue jack mackerel	<i>Trachurus picturatus</i>	VIII, IX, X
Horse mackerel	<i>Trachurus trachurus</i>	IIa, IVa, Vb, VIa, VIIa-c, e-k, VIIIabde/X
Horse mackerel	<i>Trachurus trachurus</i>	VIIIc, IXa
Pouting	<i>Trisopterus</i> spp.	all areas
John Dory	<i>Zeus faber</i>	all areas
All commercial sharks, rays & skates <sup>(4)</sup>	<i>Selachii, Rajidae</i>	IV, VIId

## Mediterranean Sea and Black Sea

European eel	<i>Anguilla anguilla</i>	all areas in the Med
Giant red shrimp	<i>Aristeomorpha foliacea</i>	all areas in the Med
Red shrimp	<i>Aristeus antennatus</i>	all areas in the Med
Bogue	<i>Boops boops</i>	1.3, 2.1, 2.2, 3.1, 3.2
Dolphinfish	<i>Coryphaena equiselis</i>	all areas in the Med
Dolphinfish	<i>Coryphaena hippurus</i>	all areas in the Med
Sea bass	<i>Dicentrarchus labrax</i>	all areas in the Med
Horned/curled octopus	<i>Eledone cirrhosa</i>	1.1, 1.3, 2.1, 2.2, 3.1
Musky octopus	<i>Eledone moschata</i>	1.3, 2.1, 2.2, 3.1
Anchovy	<i>Engraulis encrasicolus</i>	all areas in the Med
Anchovy	<i>Engraulis encrasicolus</i>	Black Sea GSA 29
Grey gurnard	<i>Eutrigla gurnardus</i>	2.2, 3.1
Squid	<i>Illex</i> spp., <i>Todarodes</i> spp.	all areas in the Med
Billfish	<i>Istiophoridae</i>	all areas in the Med

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Common squid	<i>Loligo vulgaris</i>	all areas in the Med
Black-bellied angler	<i>Lophius budegassa</i>	1.1, 1.2, 1.3, 2.2, 3.1
Anglerfish	<i>Lophius piscatorius</i>	1.1, 1.2, 1.3, 2.2, 3.1
Whiting	<i>Merlangius merlangus</i>	Black Sea GSA 29
Hake	<i>Merluccius merluccius</i>	all areas in the Med
Blue whiting	<i>Micromesistius poutassou</i>	1.1, 3.1
Grey mullets	<i>Mugilidae</i>	1.3, 2.1, 2.2, 3.1
Red mullet	<i>Mullus barbatus</i>	all areas in the Med
Red mullet	<i>Mullus barbatus</i>	Black Sea GSA 29
Striped red mullet	<i>Mullus surmuletus</i>	all areas in the Med
Common octopus	<i>Octopus vulgaris</i>	all areas in the Med
Norway lobster	<i>Nephrops norvegicus</i>	all areas in the Med
Pandora	<i>Pagellus erythrinus</i>	all areas in the Med
Deepwater rose shrimp	<i>Parapenaeus longirostris</i>	all areas in the Med
Caramote prawn	<i>Penaeus kerathurus</i>	3.1
Turbot	<i>Psetta maxima</i>	Black Sea GSA 29
Sardine	<i>Sardina pilchardus</i>	all areas in the Med
Mackerel	<i>Scomber</i> spp.	all areas in the Med
Cuttlefish	<i>Sepia officinalis</i>	all areas in the Med
Sole	<i>Solea vulgaris</i>	1.2, 2.1, 3.1
Gilthead sea bream	<i>Sparus aurata</i>	1.2, 3.1
Picarels	<i>Spicara smaris</i>	2.1, 3.1, 3.2
Sprat	<i>Sprattus sprattus</i>	Black Sea GSA 29
Mantis shrimp	<i>Squilla mantis</i>	1.3, 2.1, 2.2
Mediterranean horse mackerel	<i>Trachurus mediterraneus</i>	All areas in the Med

Species (common name)	Species (scientific name)	Area (ICES <sup>(1)</sup> , IBSFC <sup>(2)</sup> or FAO <sup>(3)</sup> area code) where the stock is located/stock code
Mediterranean horse mackerel	<i>Trachurus mediterraneus</i>	Black Sea GSA 29
Horse mackerel	<i>Trachurus trachurus</i>	all areas in the Med
Horse mackerel	<i>Trachurus trachurus</i>	Black Sea GSA 29
Tub gurnard	<i>Trigla lucerna</i>	1.3, 2.2, 3.1
Clam	<i>Veneridae</i>	2.1, 2.2
Transparent gobiid	<i>Aphia minuta</i>	GSA 9,10,16 and 19
Sand smelt	<i>Atherina</i> spp.	GSA 9,10,16 and 19
Poor cod	<i>Trisopterus minutus</i>	All regions
All commercial sharks, rays & skates <sup>(4)</sup>	<i>Selachii, Rajidae</i>	All regions

<sup>(1)</sup> International Council for the Exploration of the Sea.

<sup>(2)</sup> International Baltic Sea Fisheries Commission.

<sup>(3)</sup> Food and Agricultural Organisation of the United Nations.

<sup>(4)</sup> To be reported at species level.

#### BIOLOGICAL DATA

Table 1B

#### Stocks of outermost regions of the Union

Species (common name)	Species (scientific name)
French Guyana	
Red snapper	<i>Lutjanus purpureus</i>
Prawns	<i>Farfantepenaeus subtilis</i>
Acoupa weakfish	<i>Cynoscion acoupa</i>
Smalltooth weakfish	<i>Cynoscion steindachneri</i>
Green weakfish	<i>Cynoscion virescens</i>
Sea catfishes	<i>Ariidae</i>
Tripletail	<i>Lobotes surinamensis</i>
Torroto grunt	<i>Genyatremus luteus</i>
Snooks	<i>Centropomus</i> spp.

Species (common name)	Species (scientific name)
Groupers	<i>Serranidae</i>
Mulletts	<i>Mugil spp.</i>
Guadeloupe and Martinique	
Snappers	<i>Lutjanidae</i>
Grunters	<i>Haemulidae</i>
Groupers	<i>Serranidae</i>
Lion fish	<i>Pterois volitans</i>
Tuna-like fish	<i>Scombridae</i>
Blue marlin	<i>Makaira nigricans</i>
Dolphinfish	<i>Coryphaena hippurus</i>
Réunion and Mayotte	
Snappers	<i>Lutjanidae</i>
Groupers	<i>Serranidae</i>
Tuna-like fish	<i>Scombridae</i>
Swordfish	<i>Xiphias gladius</i>
Other bill fishes	<i>Istiophoridae</i>
Dolphinfish	<i>Coryphaena hippurus</i>
Bigeye scad	<i>Selar crumenophthalmus</i>
Azores, Madeira and Canary Islands	
Atlantic chub mackerel	<i>Scomber colias</i>
Sardinella	<i>Sardinella maderensis</i>
Horse mackerel	<i>Trachurus spp.</i>
Sardine	<i>Sardina pilchardus</i>
Parrotfish	<i>Sparisoma cretense</i>
Limpets	<i>Patellidae</i>

## BIOLOGICAL DATA

Table 1C

**Stocks in marine regions under regional fisheries management organisations (RFMOs) and Sustainable Fishing Partnership Agreements (SFPAS)**

IATTC (Inter-American Tropical Tuna Commission)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or regional fisheries organisations (RFOs), shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments.
<i>Thunnus albacares</i>	Yellowfin tuna	East Pacific Ocean	High	
<i>Thunnus obesus</i>	Bigeye tuna	East Pacific Ocean	High	
<i>Katsuwonus pelamis</i>	Skipjack tuna	East Pacific Ocean	High	
<i>Thunnus alalunga</i>	Albacore tuna	East Pacific Ocean	High	
<i>Thunnus orientalis</i>	Pacific bluefin tuna	East Pacific Ocean	High	
<i>Xiphias gladius</i>	Swordfish	East Pacific Ocean	High	
<i>Makaira nigricans</i> (or <i>mazara</i> )	Blue marlin	East Pacific Ocean	High	
<i>Makaira indica</i>	Black marlin	East Pacific Ocean	High	
<i>Tetrapturus audax</i>	Striped marlin	East Pacific Ocean	High	

ICCAT (The International Commission for the Conservation of Atlantic Tunas)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments.
<i>Thunnus albacares</i>	Yellowfin tuna	Atlantic Ocean and adjacent seas	High	
<i>Thunnus obesus</i>	Bigeye tuna	Atlantic Ocean and adjacent seas	High	
<i>Katsuwonus pelamis</i>	Skipjack tuna	Atlantic Ocean and adjacent seas	High	
<i>Thunnus alalunga</i>	Albacore tuna	Atlantic Ocean and adjacent seas	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Thunnus thynnus</i>	Bluefin tuna	Atlantic Ocean and adjacent seas	High	
<i>Xiphias gladius</i>	Swordfish	Atlantic Ocean and adjacent seas	High	
<i>Makaira nigricans</i> (or <i>mazara</i> )	Blue marlin	Atlantic Ocean and adjacent seas	High	
<i>Istiophorus albicans</i>	Sailfish	Atlantic Ocean and adjacent seas	High	
<i>Tetrapturus albidus</i>	White marlin	Atlantic Ocean and adjacent seas	High	
<i>Prionace glauca</i>	Blue shark	Atlantic Ocean and adjacent seas	High	
<i>Auxis rochei</i>	Bullet tuna	Atlantic Ocean and adjacent seas	High	
<i>Sarda sarda</i>	Atlantic bonito	Atlantic Ocean and adjacent seas	High	
<i>Euthynnus alleteratus</i>	Atlantic back skipjack	Atlantic Ocean and adjacent seas	Medium	
<i>Thunnus atlanticus</i>	Blackfin tuna	Atlantic Ocean and adjacent seas	Medium	
<i>Orcynopsis unicolor</i>	Plain bonito	Atlantic Ocean and adjacent seas	Medium	
<i>Scomberomorus brasiliensis</i>	Serra Spanish mackerel	Atlantic Ocean and adjacent seas	Medium	
<i>Scomberomorus regalis</i>	Cero	Atlantic Ocean and adjacent seas	Medium	
<i>Auxis thazard</i>	Frigate tuna	Atlantic Ocean and adjacent seas	Medium	
<i>Scomberomorus cavalla</i>	King mackerel	Atlantic Ocean and adjacent seas	Medium	
<i>Scomberomorus tritor</i>	West African Spanish mackerel	Atlantic Ocean and adjacent seas	Medium	
<i>Scomberomorus maculatus</i>	Atlantic Spanish mackerel	Atlantic Ocean and adjacent seas	Medium	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Acanthocybium solandri</i>	Wahoo	Atlantic Ocean and adjacent seas	Medium	
<i>Coryphaena hippurus</i>	Dolphinfish	Atlantic Ocean and adjacent seas	Medium	

## NAFO (North Atlantic Fisheries Organisation)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Stocks as defined by the RFMO	Priority	The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments.
<i>Gadus morhua</i>	Cod	NAFO 2J 3KL	Low	
<i>Gadus morhua</i>	Cod	NAFO 3M	High	
<i>Gadus morhua</i>	Cod	NAFO 3NO	High	
<i>Gadus morhua</i>	Cod	NAFO 3Ps	High	
<i>Gadus morhua</i>	Cod	NAFO SA1	High	
<i>Glyptocephalus cynoglossus</i>	Witch flounder	NAFO 3NO	High	
<i>Glyptocephalus cynoglossus</i>	Witch flounder	NAFO 2J3KL	Low	
<i>Hippoglossoides platessoides</i>	American plaice	NAFO 3LNO	High	
<i>Hippoglossoides platessoides</i>	American plaice	NAFO 3M	High	
<i>Limanda ferruginea</i>	Yellowtail flounder	NAFO 3LNO	Medium	
<i>Coryphaenoides rupestris</i>	Roundnose Grenadier	NAFO SA0 + 1	Low	
<i>Macrourus berglax</i>	Roughhead grenadier	NAFO SA2 + 3	High	
<i>Pandalus borealis</i>	Northern shrimp	NAFO 3LNO	High	
<i>Pandalus borealis</i>	Northern shrimp	NAFO 3M	High	
<i>Amblyraja radiata</i>	Thorny skate	NAFO 3LNOPs	High	
<i>Reinhardtius hippoglossoides</i>	Greenland halibut	NAFO 3KLMNO	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Reinhardtius hippoglossoides</i>	Greenland halibut	NAFO SA1	High	
<i>Hippoglossus hippoglossus</i>	Atlantic halibut	NAFO SA1	Low	
<i>Sebastes mentella</i>	Redfish	NAFO SA1	High	
<i>Sebastes</i> spp.	Redfish	NAFO 3LN	High	
<i>Sebastes</i> spp.	Redfish	NAFO 3M	High	
<i>Sebastes</i> spp.	Redfish	NAFO 3O	High	
<i>Urophycis tenuis</i>	White hake	NAFO 3NO	High	
<i>Mallotus villosus</i>	Capelin	NAFO 3NO	High	
<i>Beryx</i> sp.	Alfonsinos	NAFO 6G	High	
<i>Illex illecebrosus</i>	Shortfin squid	NAFO Subareas 3 + 4	Low	
<i>Salmo salar</i>	Salmon	NAFO S1 + ICES Sub-area XIV, NEAF, NASCO	High	

## FAO marine area 34 — Fisheries Committee for the Eastern Central Atlantic (CECAF)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Brachydeuterus</i> spp.	Grunt	34.1.3, 34.3.1, 34.3.3-6	high	
<i>Caranx</i> spp.	Jack	34.3.1, 34.3.3-6	high	
<i>Cynoglossus</i> spp.	Tongue sole	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Decapterus</i> spp.	Scad	34.3.1, 34.3.3-6	high	
<i>Dentex canariensis</i>	Canary dentex	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	medium	
<i>Dentex congoensis</i>	Congo dentex	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	medium	
<i>Dentex macrophthalmus</i>	Large-eye dentex	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	



SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Dentex maroccanus</i>	Morocco dentex	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	medium	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Dentex</i> spp.	Dentex	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Engraulis encrasicolus</i>	Anchovy	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Epinephelus aeneus</i>	White grouper	34.1.3, 34.3.1, 34.3.3-6	high	
<i>Ethmalosa fimbriata</i>	Bonga shad	34.3.1, 34.3.3-6	high	
<i>Farfantepenaeus notialis</i>	Southern pink shrimp	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Galeoides decadactylus</i>	Lesser African threadfin	34.1.3, 34.3.1, 34.3.3-6	high	
<i>Loligo vulgaris</i>	Common squid	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Merluccius polli</i>	Benguela hake	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Merluccius senegalensis</i>	Senegalese hake	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Merluccius</i> spp.	Other hake	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	medium	
<i>Octopus vulgaris</i>	Common octopus	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Pagellus acarne</i>	axillary sea bream	34.1.1	high	
<i>Pagellus bellottii</i>	Red pandora	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Pagellus bogaraveo</i>	Blackspot sea bream	34.1.1	medium	
<i>Pagellus</i> spp.	Pandora	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Pagrus caeruleostictus</i>	Blue spotted sea bream	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Parapenaeus longirostris</i>	Deepwater rose shrimp	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Pomadasys incisus</i>	Bastard grunt	34.1.1	medium	
<i>Pomadasys</i> spp.	Grunt	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Pseudotolithus</i> spp.	West African croakers	34.1.1	high	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Sardina pilchardus</i>	Sardine	34.1.1, 34.1.3	high	
<i>Sardinella aurita</i>	Round sardinella	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Sardinella maderensis</i>	Short-body sardinella	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Scomber japonicus</i>	Chub mackerel	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Scomber</i> spp.	Other Mackerel	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Sepia hierredda</i>	Cuttlefish	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Sepia officinalis</i>	Common cuttlefish	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Sepia</i> spp.	Cuttlefishes	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	medium	
<i>Sparidae</i>	Sea bream	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Sparus</i> spp.	Sea bream	34.1.1	high	
<i>Trachurus trachurus</i>	Atlantic horse mackerel	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Trachurus trecae</i>	Cunene horse mackerel	34.1.1, 34.1.3, 34.3.1, 34.3.3-6	high	
<i>Umbrina canariensis</i>	Canary drum	34.3.3-6	medium	

## SEAFO (South-East Atlantic Fisheries Organisation)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Dissostichus eleginoides</i>	Patagonian toothfish	South-East Atlantic	High	
<i>Beryx</i> spp.	Alfonsinos	South-East Atlantic	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Chaceon</i> spp.	Red/Golden crabs	South-East Atlantic	High	
<i>Pseudopentaceros richardsoni</i>	Pelagic armourhead/ Southern boarfish	South-East Atlantic	High	
<i>Helicolenus</i> spp.	Blackbelly rosefishes	South-East Atlantic	High	
<i>Hoplostethus atlanticus</i>	Orange roughy	South-East Atlantic	High	
<i>Trachurus</i> spp.	Horse mackerel	South-East Atlantic	High	
<i>Scomber</i> spp.	Mackerel	South-East Atlantic	High	
<i>Polyprion americanus</i>	Wreckfish	South-East Atlantic	Medium	
<i>Jasus tristani</i>	Tristan rock lobster	South-East Atlantic	Medium	
<i>Lepidotus caudatus</i>	Silver scabbardfish	South-East Atlantic	Medium	
<i>Schedophilus ovalis</i>	Imperial blackfish	South-East Atlantic	Low	
<i>Schedophilus velaini</i>	Violet warehou	South-East Atlantic	Low	
<i>Alloctytus verucossus</i>	Oreo dories	South-East Atlantic	Low	
<i>Neocyttus rhomboidales</i>		South-East Atlantic		
<i>Alloctytus guineensis</i>		South-East Atlantic		
<i>Pseudocyttu smaculatus</i>		South-East Atlantic		
<i>Emmelichthys nitidus</i>	Cape bonnetmouth	South-East Atlantic	Low	
<i>Ruvettus pretiosus</i>	Oilfish	South-East Atlantic	Low	
<i>Promethichthys prometheus</i>	Roudi escolar	South-East Atlantic	Low	
<i>Macrourus</i> spp.	Grenadiers	South-East Atlantic	Low	
<i>Antimora rostrata</i>	Blue antimora	South-East Atlantic	Low	
<i>Epigonus</i> spp.	Cardinal fish	South-East Atlantic	Low	
<i>Merluccius</i> spp.	Hake	South-East Atlantic	Low	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Notopogon fernandezianus</i>	Orange bellowfish	South-East Atlantic	Low	
<i>Octopodidae and Loliginidae</i>	Octopus and squids	South-East Atlantic	Low	

## WCPFC (Western and Central Pacific Fisheries Commission)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Thunnus albacares</i>	Yellowfin tuna	West Central Pacific Ocean	High	
<i>Thunnus obesus</i>	Bigeye tuna	West Central Pacific Ocean	High	
<i>Katsuwonus pelamis</i>	Skipjack tuna	West Central Pacific Ocean	High	
<i>Thunnus alalunga</i>	Albacore tuna	West Central Pacific Ocean	High	
<i>Thunnus orientalis</i>	Pacific bluefin tuna	West Central Pacific Ocean	High	
<i>Xiphias gladius</i>	Swordfish	West Central Pacific Ocean	High	
<i>Makaira nigricans (or mazara)</i>	Blue marlin	West Central Pacific Ocean	High	
<i>Makaira indica</i>	Black marlin	West Central Pacific Ocean	High	
<i>Tetrapturus audax</i>	Striped marlin	West Central Pacific Ocean	High	
<i>Acanthocybium solandri</i>	Wahoo	West Central Pacific Ocean	Medium	
<i>Coryphaena hippurus</i>	Dolphinfish	West Central Pacific Ocean	Medium	
<i>Elagatis bipinnulata</i>	Rainbow runner	West Central Pacific Ocean	Medium	
<i>Lepidocybium flavobrunneum</i>	Escolar	West Central Pacific Ocean	Medium	
<i>Lampris regius</i>	Moonfish (opah)	West Central Pacific Ocean	Medium	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in Chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Mola mola</i>	Sunfish	West Central Pacific Ocean	Medium	
<i>Istiophorus platypterus</i>	Sailfish	West Central Pacific Ocean	Medium	
<i>Tetrapturus angustirostris</i>	Spearfish	West Central Pacific Ocean	Medium	
<i>Ruvettus pretiosus</i>	Oilfish	West Central Pacific Ocean	Medium	
<i>Prionace glauca</i>	Blue shark	West Central Pacific Ocean	High	
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	West Central Pacific Ocean	High	
<i>Carcharhinus falciformis</i>	Silky shark	West Central Pacific Ocean	High	
<i>Alopias superciliosus</i>	big eye thresher	West Central Pacific Ocean	High	
<i>Alopias vulpinus</i>	Common thresher	West Central Pacific Ocean	High	
<i>Alopias pelagicus</i>	Pelagic thresher	West Central Pacific Ocean	High	

**NB: for WCPF, the following reporting requirements for long liners shall be added:**

- (1) Number of branch lines between floats. The number of branch lines between floats shall be reported for each set.
- (2) Number of fish caught per set, for the following species: albacore (*Thunnus alalunga*), bigeye (*Thunnus obesus*), skipjack (*Katsuwonus pelamis*), yellowfin (*Thunnus albacares*), striped marlin (*Tetrapturus audax*), blue marlin (*Makaira mazara*), black marlin (*Makaira indica*) and swordfish (*Xiphias gladius*), blue shark, silky shark, oceanic whitetip shark, mako sharks, thresher sharks, porbeagle shark (south of 20° S, until biological data shows this or another geographic limit to be appropriate), hammerhead sharks (winghead, scalloped, great, and smooth), whale shark, and other species as determined by the Commission.

If the total weight or average weight of fish caught per set has been recorded, then the total weight or average weight of fish caught per set, by species, shall also be reported. If the total weight or average weight of fish caught per set has not been recorded, then the total weight or average weight of fish caught per set, by species, shall be estimated and the estimates reported. The total weight or average weight shall refer to whole weights, rather than processed weights.

WECAFC (Western Central Atlantic Fishery Commission)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Panulirus argus</i>	Caribbean spiny lobster	West Central Atlantic	High	
<i>Strombus gigas</i>	Queen conch	West Central Atlantic	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Shark-like Selachii, Rajidae</i>	Sharks, rays & skates	West Central Atlantic	High	
<i>Coryphaena hippurus</i>	Dolphin fish	West Central Atlantic	High	
<i>Acanthocybium solandri</i>	Wahoo	West Central Atlantic	High	
<i>Epinephelus guttatus</i>	Red hind	West Central Atlantic	High	
<i>Lutjanus vivanus</i>	Silk snapper	West Central Atlantic	High	
<i>Lutjanus buccanella</i>	Blackfin snapper	West Central Atlantic	High	
<i>Lutjanus campechanus</i>	Red snapper	West Central Atlantic	High	
<i>Penaeus subtilis</i>	Penaeus shrimp	French Guiana EEZ	High	

## IOTC (Indian Ocean Tuna Commission)

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Thunnus albacares</i>	Yellowfin tuna	Indian Ocean Western and Eastern	High	
<i>Thunnus obesus</i>	Bigeye tuna	Indian Ocean Western and Eastern	High	
<i>Katsuwonus pelamis</i>	Skipjack tuna	Indian Ocean Western and Eastern	High	
<i>Thunnus alalunga</i>	Albacore tuna	Indian Ocean Western and Eastern	High	
<i>Xiphias gladius</i>	Swordfish	Indian Ocean Western and Eastern	High	
<i>Makaira nigricans (or mazara)</i>	Blue marlin	Indian Ocean Western and Eastern	High	
<i>Makaira indica</i>	Black marlin	Indian Ocean Western and Eastern	High	
<i>Tetrapturus audax</i>	Striped marlin	Indian Ocean Western and Eastern	High	
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	Indian Ocean Western and Eastern	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III of this Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Auxis rochei</i>	Bullet tuna	Indian Ocean Western and Eastern	Medium	
<i>Auxis thazard</i>	Frigate tuna	Indian Ocean Western and Eastern	Medium	
<i>Euthynnus affinis</i>	Kawakawa	Indian Ocean Western and Eastern	Medium	
<i>Thunnus tonggol</i>	Longtail tuna	Indian Ocean Western and Eastern	Medium	
<i>Scomberomorus guttatus</i>	Indo-Pacific king mackerel	Indian Ocean Western and Eastern	Medium	
<i>Scomberomorus commerson</i>	Narrow-barred Spanish mackerel	Indian Ocean Western and Eastern	Medium	
<i>Prionace glauca</i>	Blue shark	Indian Ocean Western and Eastern	High	
<i>Alopias superciliosus</i>	Bigeye thresher shark	Indian Ocean Western and Eastern	High	
<i>Carcharhinus falciformes</i>	Silky shark	Indian Ocean Western and Eastern	High	
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	Indian Ocean Western and Eastern	High	
<i>Alopias pelagicus</i>	Pelagic thresher shark	Indian Ocean Western and Eastern	High	
<i>Sphyrna lewini</i>	Scalloped hammerhead shark	Indian Ocean Western and Eastern	High	

## Other RFMOs

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
Scientific name	Common name	Geographical Area	Priority	The data collection is annual and the updating/processing of the data shall be done timely to fit the schedule of the stock assessments.
<i>Trachurus murphyi</i>	Jack mackerel	SPRFMO Convention Area	High	
<i>Euphausia superba</i>	Krill	CCAMLR Convention Area	High	

SPECIES				Frequency of collection of biological variables
When designing sampling plans aiming at collecting biological information as laid down in chapter III Annex, stock boundaries, as fixed by the competent RFMOs or RFOs, shall be taken into account and appropriate sampling effort shall be allocated to each stock.				
<i>Dissostichus</i> spp. <i>Dissostichus eleginoides</i> and <i>Dissostichus mawsoni</i> )	Toothfish	CCAMLR Convention Area	High	
<i>Champscephalus gunnari</i>	Mackerel icefish	CCAMLR Convention Area	Low	
Resources of fish, molluscs, crustaceans and other sedentary species within the competence area, but excluding: (i) sedentary species subject to the fishery jurisdiction of coastal states pursuant to Article 77(4) of the 1982 UN Convention on the Law of the Sea; and (ii) highly migratory species listed in Annex I of the 1982 UN Convention on the Law of the Sea.		SIOFA Convention Area		

## BIOLOGICAL DATA

Table 1D

**Species to be monitored under protection programmes in the Union or under international obligations**

Common name	Scientific name	Region/RFMO	Legal framework
Bony fishes	Teleostei		
Sturgeons	<i>Acipenser</i> spp.	Mediterranean Sea and Black Sea; Baltic Sea; OSPAR II, IV	Annex II of the Barcelona Convention <sup>(1)</sup> , Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol; OSPAR <sup>(2)</sup> ; Helcom <sup>(3)</sup>
Smoothheads (Slickheads)	<i>Alepocephalidae</i>	All regions	Relevant for deep sea fisheries <sup>(4)</sup>
Baird's smoothhead	<i>Alepocephalus Bairdii</i>	All regions	Relevant for deep sea fisheries
Risso's smoothhead	<i>Alepocephalus rostratus</i>	All regions	Relevant for deep sea fisheries
Pontic shad	<i>Alosa immaculata</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Allis shad	<i>Alosa alosa</i>	OSPAR II, III, IV	OSPAR
Common Whitefish/houting	<i>Coregonus lavaretus</i>	OSPAR II	OSPAR
Cod	<i>Gadus morhua</i>	OSPAR II, III; Baltic Sea	OSPAR; Helcom



Common name	Scientific name	Region/RFMO	Legal framework
Long-snouted seahorse	<i>Hippocampus guttulatus</i> (synonym: <i>Hippocampus ramulosus</i> )	OSPAR II, III, IV, V	OSPAR
Short-snouted seahorse	<i>Hippocampus hippocampus</i>	OSPAR II, III, IV, V	OSPAR
Black Sea shad	<i>Alosa tanaica</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Blue antimora (Blue hake)	<i>Antimora rostrata</i>	All regions	Relevant for deep sea fisheries
Black scabbardfish	<i>Aphanopus carbo</i>	All regions	Relevant for deep sea fisheries
Scabbardfish	<i>Aphanopus intermedius</i>	All regions	Relevant for deep sea fisheries
Crayfish	<i>Astacus</i> spp.	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Big-scale sand smelt	<i>Atherina pontica</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Garfish	<i>Belone belone euxini</i> Günther	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Alfonsinos	<i>Beryx</i> spp.	All regions	Relevant for deep sea fisheries
Brotula	<i>Cataetx laticeps</i>	All regions	Relevant for deep sea fisheries
Vendace	<i>Coregonus albula</i>	Baltic Sea	RCM Baltic recommendation
lumpfish	<i>Cyclopterus lumpus</i>	All regions	Relevant for deep sea fisheries
Annular seabream	<i>Diplodus annularis</i>	Mediterranean Sea	Council Regulation (EC) No 1967/2006 (5) (min. cons. size)
Sharpsnout sea bream	<i>Diplodus puntazzo</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
White sea bream	<i>Diplodus sargus</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Two-banded sea bream	<i>Diplodus vulgaris</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Patagonian toothfish	<i>Dissostichus eleginoides</i>	All regions	Relevant for deep sea fisheries
Antarctic toothfish	<i>Dissostichus mawsoni</i>	All regions	Relevant for deep sea fisheries

Common name	Scientific name	Region/RFMO	Legal framework
Groupers	<i>Epinephelus</i> spp.	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Black cardinalfish	<i>Epigonus telescopus</i>	All regions	Vulnerable species Relevant for deep sea fisheries
Gobies	<i>Gobiidae</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Bluemouth (Bluemouth redfish)	<i>Helicolenus dactylopterus</i>	All regions	Relevant for deep sea fisheries
Atlantic halibut	<i>Hippoglossus hippoglossus</i>	All regions	Relevant for deep sea fisheries
Orange roughy	<i>Hoplostethus atlanticus</i>	All regions; OSPAR I, V	Vulnerable species Relevant for deep sea fisheries
Silver roughy (Pink)	<i>Hoplostethus mediterraneus</i>	All regions	Relevant for deep sea fisheries
Silver scabbard fish (Cutless fish)	<i>Lepidopus caudatus</i>	All regions	Relevant for deep sea fisheries
Stripped sea bream	<i>Lithognathus mormyrus</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Golden grey mullet	<i>Liza aurata</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Leaping mullet	<i>Liza saliens</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Greater eelpout	<i>Lycodes esmarkii</i>	All regions	Relevant for deep sea fisheries
Grenadiers (rattails) other than roundnose grenadier and roughhead grenadier	<i>Macrouridae other than Coryphaenoides rupestris and Macrourus berglax</i>	All regions	Relevant for deep sea fisheries
Roughhead grenadier (Rough rattail)	<i>Macrourus berglax</i>	All regions	Relevant for deep sea fisheries
Whiting	<i>Merlangius merlangus</i>	Baltic Sea and Black Sea	RCM Baltic recommendation; Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
European eel	<i>Anguilla anguilla</i>	OSPAR I, II, III, IV, Baltic sea	OSPAR; Helcom
Atlantic Salmon	* <i>Salmo salar</i>	OSPAR I, II, III, IV, Baltic Sea	OSPAR; Helcom
Bluefin tuna	* <i>Thunnus thynnus</i>	OSPAR V	OSPAR; Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Blue ling	<i>Molva dypterygia</i>	All regions	Relevant for deep sea fisheries
Common mora	<i>Mora moro</i>	All regions	Relevant for deep sea fisheries
Mullet	<i>Mugil spp.</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Black gemfish	<i>Nesiarchus nasutus</i>	All regions	Relevant for deep sea fisheries
Snubnosed spiny eel	<i>Notocanthus chemnitzii</i>	All regions	Relevant for deep sea fisheries
Smelt	<i>Osmerus eperlanus</i>	Baltic Sea	RCM (Regional Coordination Meeting) Baltic recommendation, Helcom
Spanish sea bream	<i>Pagellus acarne</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Blackspot seabream	<i>Pagellus bogaraveo</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Common sea bream	<i>Pagrus pagrus</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Wreckfish	<i>Polyprion americanus</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Wreckfish	<i>Polyprion americanus</i>	All regions	Relevant for deep sea fisheries
Bluefish	<i>Pomatomus saltatrix</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Small redfish (Norway redfish)	<i>Sebastes viviparus</i>	All regions	Relevant for deep sea fisheries
Beluga	<i>Huso huso</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Spiny (deep sea) scorpionfish	<i>Trachyscorpia cristulata</i>	All regions	Relevant for deep sea fisheries
Oceanic sea breams	<i>Brama spp.</i>	GSA 1.1, 1.2, 1.3 and Black Sea GSA 29	Annex VIII of Council Regulation (EC) No 894/97 <sup>(6)</sup>
Atlantic chub mackerel	<i>Scomber colias Gmelin</i>	Black sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Crystal gobid	<i>Crystallogobius linearis</i>	Black sea	National management plans
Rabbit fish	<i>Chimaera monstrosa</i>	Baltic Sea	Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Allis shad	<i>Alosa alosa</i>	Baltic Sea	Helcom
Twaite shad	<i>Alosa fallax</i>	Baltic Sea	Helcom
Autumn-spawning herring	<i>Clupea harengus</i> subsp.	Baltic Sea	Helcom
Zope	<i>Abramis ballerus</i>	Baltic Sea	Helcom
Bleak	<i>Alburnus alburnus</i>	Baltic Sea	Helcom
Asp	<i>Aspius aspius</i>	Baltic Sea	Helcom
Barbel	<i>Barbus barbus</i>	Baltic Sea	Helcom
Gudgeon	<i>Gobio gobio</i>	Baltic Sea	Helcom
Ziege	<i>Pelecus cultratus</i>	Baltic Sea	Helcom
Eurasian minnow	<i>Phoxinus phoxinus</i>	Baltic Sea	Helcom
Vimba	<i>Vimba vimba</i>	Baltic Sea	Helcom
Spined loach	<i>Cobitis taenia</i>	Baltic Sea	Helcom
Trout	<i>Salmo trutta</i>	Baltic Sea	Helcom
Vendace	<i>Coregonus albula</i>	Baltic Sea	Helcom
Baltic houting	<i>Coregonus balticus</i> Synonym: <i>Coregonus lavaretus</i> , migratory	Baltic Sea	Helcom
Maraena	<i>Coregonus maraena</i> Synonym: <i>Coregonus lavaretus</i> , stationary	Baltic Sea	Helcom
Pallas's houting	<i>Coregonus pallasii</i>	Baltic Sea	Helcom
Marine smelt	<i>Osmerus eperlanomarinus</i>	Baltic Sea	Helcom
Black-bellied angler	<i>Lophius budegassa</i>	Baltic Sea	Helcom
Sea stickleback	<i>Spinachia spinachia</i>	Baltic Sea	Helcom
Snake pipefish	<i>Entelurus aequoreus</i>	Baltic Sea	Helcom
Straightnose pipefish	<i>Nerophis ophidion</i>	Baltic Sea	Helcom
Worm pipefish	<i>Nerophis lumbriciformis</i>	Baltic Sea	Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Greater pipefish	<i>Syngnathus acus</i>	Baltic Sea	Helcom
Broad-nosed pipefish	<i>Syngnathus typhle</i>	Baltic Sea	Helcom
Roundnose grenadier	<i>Coryphaenoides rupestris</i>	Baltic Sea	Helcom
Haddock	<i>Melanogrammus aeglefinus</i>	Baltic Sea	Helcom
Pollack	<i>Pollachius pollachius</i>	Baltic Sea	Helcom
Ling	<i>Molva molva</i>	Baltic Sea	Helcom
Snakeblenny	<i>Lumpenus lamprataeformis</i>	Baltic Sea	Helcom
Ocean perch	<i>Sebastes marinus</i>	Baltic Sea	Helcom
Norway redfish	<i>Sebastes viviparus</i>	Baltic Sea	Helcom
Miller's thumb	<i>Cottus gobio</i>	Baltic Sea	Helcom
Alpine bullhead	<i>Cottus poecilopus</i>	Baltic Sea	Helcom
Shorthorn sculpin	<i>Myoxocephalus scorpius</i>	Baltic Sea	Helcom
Longspined bullhead	<i>Taurulus bubalis</i>	Baltic Sea	Helcom
Fourhorn sculpin	<i>Trigloopsis quadricornis</i>	Baltic Sea	Helcom
Lumpsucker	<i>Cyclopterus lumpus</i>	Baltic Sea	Helcom
Striped seasnail	<i>Liparis liparis</i>	Baltic Sea	Helcom
Montagu's seasnail	<i>Liparis montagui</i>	Baltic Sea	Helcom
John Dory	<i>Zeus faber</i>	Baltic Sea	Helcom
European seabass	<i>Dicentrarchus labrax</i>	Baltic Sea	Helcom
Ballan wrasse	<i>Labrus bergylta</i>	Baltic Sea	Helcom
Cuckoo wrasse	<i>Labrus mixtus</i>	Baltic Sea	Helcom
Corkwring wrasse	<i>Symphodus melops</i>	Baltic Sea	Helcom
Greater weever	<i>Trachinus draco</i>	Baltic Sea	Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Wolf-fish	<i>Anarhichas lupus</i>	Baltic Sea	Helcom
Lesser sandeel	<i>Ammodytes marinus</i>	Baltic Sea	Helcom
Small sandeel	<i>Ammodytes tobianus</i>	Baltic Sea	Helcom
Painted goby	<i>Pomatoschistus pictus</i>	Baltic Sea	Helcom
Bullet tuna	<i>Auxis rochei</i>	Baltic Sea	Helcom
Little thunny	<i>Euthynnus alleteratus</i>	Baltic Sea	Helcom
Plain bonito	<i>Orcynopsis unicolor</i>	Baltic Sea	Helcom
Atlantic mackerel	<i>Scomber scombrus</i>	Baltic Sea	Helcom
Atlantic halibut	<i>Hippoglossus hippoglossus</i>	Baltic Sea	Helcom
Swordfish	<i>Xiphias gladius</i>	Baltic Sea	Helcom
Niger blackfish	<i>Centrolophus niger</i>	Baltic Sea	Helcom
Cartilaginous fishes	Chondrichthyes		
Narrow sawfish	<i>Anoxypristis cuspidata</i>	All oceans	RFMOs, High priority
Birdbeak dogfish	<i>Deania calcea</i>	All oceans	RFMOs, High priority
Smooth lanternshark	<i>Etmopterus pusillus</i>	All oceans	RFMOs, High priority
Dwarf sawfish	<i>Pristis clavata</i>	All oceans	RFMOs, High priority
Green sawfish	<i>Pristis zijsron</i>	All oceans	RFMOs, High priority
Norwegian skate	<i>Raja (Dipturus) nidarosiensis</i>	All oceans	RFMOs, High priority
Thornback ray	<i>Raja clavata</i>	All oceans	RFMOs, High priority OSPAR; Helcom
Undulate ray	<i>Raja undulata</i>	All oceans	RFMOs, High priority
Pelagic thresher	<i>Alopias pelagicus</i>	All oceans	RFMOs, High priority
Big eye thresher	<i>Alopias superciliosus</i>	All oceans	RFMOs, High priority
Common thresher	<i>Alopias vulpinus</i>	All oceans	RFMOs, High priority; Helcom
Starry ray	<i>Amblyraja radiata</i>	All oceans	RFMOs, High priority

Common name	Scientific name	Region/RFMO	Legal framework
Iceland catshark	<i>Apristurus</i> spp.	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Silky shark	<i>Carcharhinus falciformis</i>	All oceans	RFMOs, High priority
Galapagos shark	<i>Carcharhinus galapagensis</i>	All oceans	RFMOs, High priority
Oceanic whitetip shark	<i>Carcharhinus longimanus</i>	All oceans	RFMOs, High priority
Sandbar shark	<i>Carcharhinus plumbeus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Sand tiger shark	<i>Carcharias taurus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Great white shark	<i>Carcharodon carcharias</i>	All oceans	RFMOs, High priority
Gulper shark	<i>Centrophorus granulosus</i>	All oceans and seas	RFMOs, High priority, Barcelona Convention Annex III; OSPAR
Gulper shark species	<i>Centrophorus</i> spp.	All regions	Relevant for deep sea fisheries
Leafscale gulper shark	<i>Centrophorus squamosus</i>	All oceans and seas	RFMOs, High priority; OSPAR
Black dogfish	<i>Centroscyllium fabricii</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries
Portuguese dogfish	<i>Centroscymnus coelolepis</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries; OSPAR
Longnose velvet dogfish	<i>Centroscymnus crepidater</i>	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Basking shark	<i>Cetorhinus maximus</i>	All oceans and seas	RFMOs, High priority; OSPAR; Helcom
Rabbit fish (rattail)	<i>Chimaera monstrosa</i>	All regions	Relevant for deep sea fisheries
Frilled shark	<i>Chlamydoselachus anguineus</i>	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Kitefin shark	<i>Dalatias licha</i>	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Stingray	<i>Dasyatis pastinaca</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol; Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Birdbeak dogfish	<i>Deania calcea</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries
Common skate	<i>Dipturus batis</i>	All oceans and seas	RFMOs, High priority, Barcelona Convention Annex II; OSPAR; Helcom
White skate	* <i>Rostroraja alba</i>	OSPAR II, III, IV	OSPAR
Greater lanternshark	<i>Etmopterus princeps</i>	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Velvet belly	<i>Etmopterus spinax</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries; Helcom
Winghead hammerhead	<i>Eusphyra blochii</i>	All oceans	RFMOs, High priority
School shark, tope shark	<i>Galeorhinus galeus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II; Helcom
Blackmouth dogfish	<i>Galeus melastomus</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries
Mouse catshark	<i>Galeus murinus</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries
Spiny butterfly ray	<i>Gymnura altavela</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Sharpnose sevengill shark	<i>Heptranchias perlo</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex III
Bluntnose six-gilled shark	<i>Hexanchus griseus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II; Helcom
Large-eyed rabbitfish (Ratfish)	<i>Hydrolagus mirabilis</i>	All regions	Relevant for deep sea fisheries
Shortfin mako	<i>Isurus oxyrinchus</i>	All oceans	RFMOs, High priority
Longfin mako	<i>Isurus paucus</i>	All oceans	RFMOs, High priority
Porbeagle	<i>Lamna nasus</i>	All oceans	RFMOs, High priority, OSPAR; Helcom
Sandy skate	<i>Leucoraja circularis</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II



Common name	Scientific name	Region/RFMO	Legal framework
Maltese skate	<i>Leucoraja melitensis</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Reef manta ray	<i>Manta alfredi</i>	All oceans	RFMOs, High priority
Giant manta ray	<i>Manta birostris</i>	All oceans	RFMOs, High priority
Longhorned mobula	<i>Mobula eregoodootenkee</i>	All oceans	RFMOs, High priority
Lesser devil ray	<i>Mobula hypostoma</i>	All oceans	RFMOs, High priority
Spinetail mobula	<i>Mobula japanica</i>	All oceans	RFMOs, High priority
Shortfin devil ray	<i>Mobula kuhlii</i>	All oceans	RFMOs, High priority
Devil fish	<i>Mobula mobular</i>	All oceans	RFMOs, High priority
Munk's devil ray	<i>Mobula munkiana</i>	All oceans	RFMOs, High priority
Lesser Guinean devil ray	<i>Mobula rochebrunei</i>	All oceans	RFMOs, High priority
Chilean devil ray	<i>Mobula tarapacana</i>	All oceans	RFMOs, High priority
Smoothtail mobula	<i>Mobula thurstoni</i>	All oceans	RFMOs, High priority
Starry smooth-hound	<i>Mustelus asterias</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex III
Common smooth-hound	<i>Mustelus mustelus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex III
Blackspotted smooth-hound	<i>Mustelus punctulatus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex III
Blackmouth catshark	<i>Galeus melanostomus</i>	Baltic sea	Helcom
Small-spotted catshark	<i>Scyliorhinus canicula</i>	Baltic sea	Helcom
Thorny skate	<i>Amblyraja radiata</i>	Baltic sea	Helcom
Shagreen ray	<i>Leucoraja fullonica</i>	Baltic sea	Helcom
Spotted torpedo	<i>Torpedo marmorata</i>	Baltic sea	Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Sailfin roughshark (Sharpback shark)	<i>Oxynotus paradoxus</i>	All oceans	RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries
Smalltooth sawfish	<i>Pristis pectinata</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Common sawfish	<i>Pristis pristis</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Crocodile shark	<i>Pseudocarcharias kamoharai</i>	All oceans	RFMOs, High priority
Blue stingray	<i>Pteroplatytrygon violacea</i>	All oceans	RFMOs, High priority
Round skate	<i>Raja fyllae</i>	All regions	Relevant for deep sea fisheries
Arctic skate	<i>Raja hyperborea</i>	All regions	Relevant for deep sea fisheries
Norwegian skate	<i>Raja nidarosiensis</i>	All regions	Relevant for deep sea fisheries
Spotted ray	<i>Raja montagui</i>	OSPAR I, II, III, IV	OSPAR; Helcom
Whale shark	<i>Rhincodon typus</i>	All oceans	RFMOs, High priority
Blackchin guitarfish	<i>Rhinobatos cemiculus</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Common guitarfish	<i>Rhinobatos rhinobatos</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Straightnose rabbitfish	<i>Rhinochimaera atlantica</i>	All regions	Relevant for deep sea fisheries
Bottlenose skate	<i>Rostroraja alba</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Knifetooth dogfish	<i>Scymnodon ringens</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries
Other sharks	Selachimorpha (or Selachii), Batoidea (to be defined by species according to landing, survey or catch data)	All oceans	RFMOs, High priority; Helcom
Greenland shark	<i>Somniosus microcephalus</i>	All oceans	RFMOs, High priority, Relevant for deep sea fisheries; Helcom

Common name	Scientific name	Region/RFMO	Legal framework
Scalloped hammerhead	<i>Sphyrna lewini</i>	All oceans	RFMOs, High priority
Great hammerhead	<i>Sphyrna mokarran</i>	All oceans	RFMOs, High priority
Smooth hammerhead	<i>Sphyrna zygaena</i>	All oceans	RFMOs, High priority
Spurdog, spiked dogfish	<i>Squalus acanthias</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex III, OSPAR; Helcom
Sawback angelshark	<i>Squatina aculeata</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Smoothback angelshark	<i>Squatina oculata</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II
Angel shark	<i>Squatina squatina</i>	All oceans + Mediterranean and Black Sea	RFMOs, High priority, Barcelona Convention Annex II, OSPAR; Helcom
Sea lamprey	<i>Petromyzon marinus</i>	OSPAR I, II, III, IV	OSPAR; Helcom
River lamprey	<i>Lampetra fluviatilis</i>	Baltic sea	Helcom
Mammals	Mammalia		
Cetaceans — all species	Cetacea — all species	All areas	Council Directive 92/43/EEC (7)
Minke whale	<i>Balaenoptera acutorostrata</i>	Mediterranean Sea	Rec. GFCM (8)/36/2012/2 & Annex II of the Barcelona Convention
Bowhead whale	<i>Balaena mysticetus</i>	OSPAR I	OSPAR
Blue whale	<i>Balaenoptera musculus</i>	All OSPAR	OSPAR
Northern right whale	<i>Eubalaena glacialis</i>	All OSPAR	OSPAR
Sei whale	<i>Balaenoptera borealis</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Fin whale	<i>Balaenoptera physalus</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Short-beaked common dolphin	<i>Delphinus delphis</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
North Atlantic right whale	<i>Eubalaena glacialis</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention

Common name	Scientific name	Region/RFMO	Legal framework
Long-finned pilot whale	<i>Globicephala melas</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Risso's dolphin	<i>Grampus griseus</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Dwarf sperm whale	<i>Kogia simus</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Humpback whale	<i>Megaptera novaeangliae</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Blainville's beaked whale	<i>Mesoplodon densirostris</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Killer whale	<i>Orcinus orca</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Harbour porpoise	<i>Phocoena phocoena</i>	Mediterranean Sea; OSPAR II, III	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention; Directive 92/43/EEC; OSPAR
Sperm whale	<i>Physeter macrocephalus</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
False killer whale	<i>Pseudorca crassidens</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Striped dolphin	<i>Stenella coeruleoalba</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Rough-toothed dolphin	<i>Steno bredanensis</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Bottlenose dolphin	<i>Tursiops truncatus</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Cuvier's beaked whale	<i>Ziphius cavirostris</i>	Mediterranean Sea	Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention
Monk seal	<i>Monachus monachus</i>	All areas	Rec. GFCM/35/2011/5 & Annex II of the Barcelona Convention; Directive 92/43/EEC
Saimaa ringed seal	<i>Phoca hispida saimensis</i>	All areas	Directive 92/43/EEC
Grey seal	<i>Halichoerus grypus</i>	All areas	Directive 92/43/EEC
Harbour seal	<i>Phoca vitulina</i>	All areas	Directive 92/43/EEC
Baltic ringed seal	<i>Phoca hispida bottnica</i>	All areas	Directive 92/43/EEC

Common name	Scientific name	Region/RFMO	Legal framework
Birds	Aves		
Cory's Shearwater	<i>Calonectris borealis</i>	All areas	Directive 2009/147/EC of the European Parliament and of the Council (9)
Great Cormorant	<i>Phalacrocorax carbo</i>	All areas	Directive 2009/147/EC
Northern Gannet	<i>Morus bassanus</i>	All areas	Directive 2009/147/EC
Atlantic Puffin	<i>Fratercula arctica</i>	All areas	Directive 2009/147/EC
Balearic Shearwater	<i>Puffinus mauretanicus</i>	All areas	Directive 2009/147/EC
Black-headed Gull	<i>Larus ridibundus</i>	All areas	Directive 2009/147/EC
Common Scoter	<i>Melanitta nigra</i>	All areas	Directive 2009/147/EC
European Shag	<i>Phalacrocorax aristotelis</i>	All areas	Directive 2009/147/EC
Great Shearwater	<i>Ardenna gravis</i>	All areas	Directive 2009/147/EC
Manx Shearwater	<i>Puffinus puffinus</i>	All areas	Directive 2009/147/EC
Northern Fulmar	<i>Fulmarus glacialis</i>	All areas	Directive 2009/147/EC
Scopoli's Shearwater	<i>Calonectris diomedea</i>	All areas	Directive 2009/147/EC
Sooty Shearwater	<i>Ardenna grisea</i>	All areas	Directive 2009/147/EC
Yelkouan Shearwater	<i>Puffinus yelkouan</i>	All areas	Directive 2009/147/EC
Audouin's Gull	<i>Larus audouinii</i>	All areas	Directive 2009/147/EC
Barrow's Goldeneye	<i>Bucephala islandica</i>	All areas	Directive 2009/147/EC
Bulwer's Petrel	<i>Bulweria bulwerii</i>	All areas	Directive 2009/147/EC
Common Goldeneye	<i>Bucephala clangula</i>	All areas	Directive 2009/147/EC
European Herring Gull	<i>Larus argentatus</i>	All areas	Directive 2009/147/EC
Glaucous Gull	<i>Larus hyperboreus</i>	All areas	Directive 2009/147/EC
Great Black-backed Gull	<i>Larus marinus</i>	All areas	Directive 2009/147/EC
Great Skua	<i>Catharacta skua</i>	All areas	Directive 2009/147/EC

Common name	Scientific name	Region/RFMO	Legal framework
Greater Scaup	<i>Aythya marila</i>	All areas	Directive 2009/147/EC; Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Common pochard	<i>Aythya ferina</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Lesser Black-backed Gull	<i>Larus fuscus</i>	All areas	Directive 2009/147/EC
Little Auk	<i>Alle alle</i>	All areas	Directive 2009/147/EC
Long-tailed Jaeger	<i>Stercorarius longicaudus</i>	All areas	Directive 2009/147/EC
Razorbill	<i>Alca torda</i>	All areas	Directive 2009/147/EC
Arctic Jaeger	<i>Stercorarius parasiticus</i>	All areas	Directive 2009/147/EC
Arctic Loon	<i>Gavia arctica</i>	All areas	Directive 2009/147/EC
Audubon's Shearwater	<i>Puffinus lherminieri</i>	All areas	Directive 2009/147/EC
Black Guillemot	<i>Cepphus grylle</i>	All areas	Directive 2009/147/EC
Black Scoter	<i>Melanitta americana</i>	All areas	Directive 2009/147/EC
Black-necked Grebe	<i>Podiceps nigricollis</i>	All areas	Directive 2009/147/EC
Caspian Gull	<i>Larus cachinnans</i>	All areas	Directive 2009/147/EC
Common Eider	<i>Somateria mollissima</i>	All areas	Directive 2009/147/EC
Common Guillemot	<i>Uria aalge</i>	All areas	Directive 2009/147/EC
Common Loon	<i>Gavia immer</i>	All areas	Directive 2009/147/EC
Common Merganser	<i>Mergus merganser</i>	All areas	Directive 2009/147/EC
Great Crested Grebe	<i>Podiceps cristatus</i>	All areas	Directive 2009/147/EC
Harlequin Duck	<i>Histrionicus histrionicus</i>	All areas	Directive 2009/147/EC
Horned Grebe	<i>Podiceps auritus</i>	All areas	Directive 2009/147/EC
Iceland Gull	<i>Larus glaucooides</i>	All areas	Directive 2009/147/EC
King Eider	<i>Somateria spectabilis</i>	All areas	Directive 2009/147/EC

Common name	Scientific name	Region/RFMO	Legal framework
Long-tailed Duck	<i>Clangula hyemalis</i>	All areas	Directive 2009/147/EC
Mediterranean Gull	<i>Larus melanocephalus</i>	All areas	Directive 2009/147/EC
Mew Gull	<i>Larus canus</i>	All areas	Directive 2009/147/EC
Red-breasted Merganser	<i>Mergus serrator</i>	All areas	Directive 2009/147/EC
Red-necked Grebe	<i>Podiceps grisegena</i>	All areas	Directive 2009/147/EC
Red-throated Loon	<i>Gavia stellata</i>	All areas	Directive 2009/147/EC
Slender-billed Gull	<i>Larus genei</i>	All areas	Directive 2009/147/EC
Steller's Eider	<i>Polysticta stelleri</i>	All areas	Directive 2009/147/EC
Pomarine Jaeger	<i>Stercorarius pomarinus</i>	All areas	Directive 2009/147/EC
Thick-billed Murre/ Brünnig's Guillemot	<i>Uria lomvia</i>	All areas	Directive 2009/147/EC
Velvet Scoter	<i>Melanitta fusca</i>	All areas	Directive 2009/147/EC
Yellow-billed Loon	<i>Gavia adamsii</i>	All areas	Directive 2009/147/EC
Yellow-legged Gull	<i>Larus michahellis</i>	All areas	Directive 2009/147/EC
Zino's Petrel	<i>Pterodroma madeira</i>	All areas	Directive 2009/147/EC
Pallas's Gull	<i>Larus ichthyaetus</i>	All areas	Directive 2009/147/EC
Black-legged Kittiwake	<i>Rissa tridactyla</i>	All areas	Directive 2009/147/EC
Great White Pelican	<i>Pelecanus onocrotalus</i>	All areas	Directive 2009/147/EC
Leach's Storm-petrel	<i>Oceanodroma leucorhoa</i>	All areas	Directive 2009/147/EC
Red Phalarope	<i>Phalaropus fulicarius</i>	All areas	Directive 2009/147/EC
Red-necked Phalarope	<i>Phalaropus lobatus</i>	All areas	Directive 2009/147/EC
Wilson's Storm-petrel	<i>Oceanites oceanicus</i>	All areas	Directive 2009/147/EC
Arctic Tern	<i>Sterna paradisaea</i>	All areas	Directive 2009/147/EC
Band-rumped Storm-petrel	<i>Hydrobates castro</i>	All areas	Directive 2009/147/EC
Black Tern	<i>Chlidonias niger</i>	All areas	Directive 2009/147/EC
Caspian Tern	<i>Hydroprogne caspia</i>	All areas	Directive 2009/147/EC

Common name	Scientific name	Region/RFMO	Legal framework
Common Gull-billed Tern	<i>Gelochelidon nilotica</i>	All areas	Directive 2009/147/EC
Common Tern	<i>Sterna hirundo</i>	All areas	Directive 2009/147/EC
Desertas Petrel	<i>Pterodroma deserta</i>	All areas	Directive 2009/147/EC
Ivory Gull	<i>Pagophila eburnea</i>	All areas	Directive 2009/147/EC
Lesser Crested Tern	<i>Thalasseus bengalensis</i>	All areas	Directive 2009/147/EC
Little Gull	<i>Hydrocoloeus minutus</i>	All areas	Directive 2009/147/EC
Little Tern	<i>Sternula albifrons</i>	All areas	Directive 2009/147/EC
Monteiro's Storm-petrel	<i>Hydrobates monteiroi</i>	All areas	Directive 2009/147/EC
Roseate Tern	<i>Sterna dougallii</i>	All areas	Directive 2009/147/EC
Ross's Gull	<i>Rhodostethia rosea</i>	All areas	Directive 2009/147/EC
Sabine's Gull	<i>Xema sabini</i>	All areas	Directive 2009/147/EC
Sandwich Tern	<i>Thalasseus sandvicensis</i>	All areas	Directive 2009/147/EC
Thayer's Gull	<i>Larus thayeri</i>	All areas	Directive 2009/147/EC
White-faced Storm-petrel	<i>Pelagodroma marina</i>	All areas	Directive 2009/147/EC
European Storm-petrel	<i>Hydrobates pelagicus</i>	All areas	Directive 2009/147/EC
Lesser black-backed gull	<i>Larus fuscus fuscus</i>	OSPAR I	OSPAR list of threatened and declining species
Ivory gull	<i>Pagophila eburnea</i>	OSPAR I	OSPAR list of threatened and declining species
Steller's eider	<i>Polysticta stelleri</i>	OSPAR I	OSPAR list of threatened and declining species
Little shearwater	<i>Puffinus assimilis baroli</i> (auct.incert.)	OSPAR V	OSPAR list of threatened and declining species
Balearic shearwater	<i>Puffinus mauretanicus</i>	OSPAR II, III, IV, V	OSPAR list of threatened and declining species
Black-legged kittiwake	<i>Rissa tridactyla</i>	OSPAR I, II,	OSPAR list of threatened and declining species
Roseate tern	<i>Sterna dougallii</i>	OSPAR II, III, IV, V	OSPAR list of threatened and declining species



Common name	Scientific name	Region/RFMO	Legal framework
Iberian guillemot	<i>Uria aalge</i> — Iberian population (synonyms: <i>Uria aalge albionis</i> , <i>Uria aalge ibericus</i> )	OSPAR IV	OSPAR list of threatened and declining species
Thick-billed murre	<i>Uria lomvia</i>	OSPAR I	OSPAR list of threatened and declining species
Reptiles	Reptilia		
Kemp's ridley sea turtle	<i>Lepidochelys kempii</i>	All areas	Directive 92/43/EEC; Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention
Loggerhead turtle	<i>Caretta caretta</i>	All areas	Directive 92/43/EEC; Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention; OSPAR
Leatherback turtle	<i>Dermochelys coriacea</i>	All areas	Directive 92/43/EEC; Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention; OSPAR
Hawksbill sea turtle	<i>Eretmochelys imbricata</i>	All areas	Directive 92/43/EEC; Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention
Green turtle	<i>Chelonia mydas</i>	All areas	Directive 92/43/EEC; Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention
Nile soft-shelled turtle	<i>Trionyx triunguis</i>	Mediterranean Sea	Rec. GFCM/35/2011/4 & Annex II of the Barcelona Convention
Molluscs	Mollusca		
Striped venus	<i>Chamelea gallina</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Banded wedge shell	<i>Donacilla cornea</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Eledone species	<i>Eledone</i> spp.	All areas	National management plans
Mediterranean mussel	<i>Mytilus galloprovincialis</i>	All areas out of Med	National management plans
Mediterranean mussel	<i>Mytilus galloprovincialis</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Patella	<i>Patella</i> spp.	Mediterranean Sea	Annex II of the Barcelona Convention
Rapa whelk	<i>Rapana venosa</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Tuberculate cockle	<i>Acanthocardia tuberculata</i>	All areas	National management plans
Murex	<i>Bolinus brandaris</i>	All areas	National management plans

Common name	Scientific name	Region/RFMO	Legal framework
Hard clam	<i>Callista chione</i>	All areas	National management plans
Wedge shell	<i>Donax trunculus</i>	All areas	National management plans
Ocean quahog	<i>Arctica islandica</i>	OSPAR II	OSPAR
Azorean barnacle	<i>Megabalanus azoricus</i>	OSPAR V All where it occurs	OSPAR
Dog whelk	<i>Nucella lapillus</i>	OSPAR II, III, IV	OSPAR
Flat oyster	<i>Ostrea edulis</i>	OSPAR II	OSPAR
Azorean limpet	<i>Patella ulyssiponensis aspera</i>	All OSPAR where it occurs	OSPAR
Crustaceans	Crustacea		
Lobster	<i>Homarus gammarus</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Deep-water red crab	<i>Chaceon (Geryon) affinis</i>	All regions	Relevant for deep sea fisheries
Brown shrimp	<i>Crangon crangon</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Baltic prawn	<i>Palaemon adspersus</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Rockpool prawn	<i>Palaemon elegans</i>	Black Sea	Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol
Crawfish	<i>Palinuridae</i>	Mediterranean Sea	Regulation (EC) No 1967/2006 (min. cons. size)
Cnidarians	Cnidaria		
Red coral	<i>Corallium rubrum</i>	Mediterranean Sea	Rec. GFCM/36/2012/1 & Rec. GFCM/35/2011/2

(1) Barcelona Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean.

(2) OSPAR Convention for the Protection of the Marine Environment of the North-East Atlantic.

(3) Helcom Convention on the Protection of the Marine Environment of the Baltic Sea Area.

(4) Council Regulation (EC) No 2347/2002 of 16 December 2002 establishing specific access requirements and associated conditions applicable to fishing for deep-sea stocks (OJ L 351, 28.12.2002, p. 6).

(5) Council Regulation (EC) No 1967/2006 of 21 December 2006 concerning management measures for the sustainable exploitation of fishery resources in the Mediterranean Sea, amending Regulation (EEC) No 2847/93 and repealing Regulation (EC) No 1626/94 (OJ L 409, 30.12.2006, p. 11).

(6) Council Regulation (EC) No 894/97 of 29 April 1997 laying down certain technical measures for the conservation of fishery resources (OJ L 132, 23.5.1997, p. 1).

(7) Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ L 206, 22.7.1992, p. 7).

(8) General Fisheries Commission for the Mediterranean.

(9) Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (OJ L 20, 26.1.2010, p. 7).

For prohibited species: only individuals captured dead shall be used. They shall be discarded after the measurements, The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments.

## BIOLOGICAL DATA

Table 1E

## Freshwater Anadromous and Catadromous species

Species (common name)	Species (Scientific name)	Non-marine areas where the stock is located/stock code
European eel	<i>Anguilla anguilla</i>	Eel management units as defined in accordance with Council Regulation (EC) No 1100/2007 <sup>(1)</sup>
Salmon	<i>Salmo salar</i>	All areas of natural distribution
Sea trout	<i>Salmo trutta</i>	All inland waters that exit in the Baltic Sea

<sup>(1)</sup> Council Regulation (EC) No 1100/2007 of 18 September 2007 establishing measures for the recovery of the stock of European eel (OJ L 248, 22.9.2007, p. 17).

Table 2

## Fishing activity (metier) by region

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	LOA classes (m) (d)					
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 & +
Fishing activity	Dredges	Dredges	Boat dredge [DRB]	Anadromous species (ANA) Catadromous species (CAT) Cephalopods (CEP) Crustaceans (CRU)	(b)						
			Mechanised/Suction dredge [HMD]		(b)						
	Trawls	Bottom trawls	Bottom otter trawl [OTB]	Demersal species (DEF) Deep-Water species (DWS)	(b)						
			Multi-rig otter trawl [OTT]	Finfish (FIF) Freshwater species (no code) Miscellaneous (MIS)	(b)						
			Bottom pair trawl [PTB]	Mixed Cephalopod and Demersal (MCF) Mixed Crustaceans and Demersal (MCD)	(b)						
			Beam trawl [TBB]	Mixed Deep-water species and Demersal (MDD)	(b)						
		Pelagic trawls	Midwater otter trawl [OTM]	Mixed Pelagic and Demersal (MPD) Molluscs (MOL)	(b)						
			Midwater pair trawl [PTM]	Large Pelagic fish (LPF) Small Pelagic fish (SPF) Large Pelagic fish (LPF) and Small Pelagic fish (SPF)	(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	LOA classes (m) (d)					
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] [LHM]		(b)						
			Trolling lines [LTL]		(b)						
		Longlines	Drifting longlines [LLD]		(b)						
			Set longlines [LLS]		(b)						
	Traps	Traps	Pots and Traps [FPO]		(b)						
			Fyke nets [FYK]		(b)						
			Stationary uncovered pound nets [FPN]		(b)						
			Fixed installations for fences and weirs (code needed)		(b)						
	Nets	Nets	Trammel net [GTR]		(b)						
			Set gillnet [GNS]		(b)						
			Driftnet [GND]		(b)						
	Seines	Surrounding nets	Purse seine [PS]		(b)						
			Lampara nets [LA]		(b)						
		Seines (c)	Fly shooting seine [SSC]		(b)						
			Anchored seine [SDN]		(b)						

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	LOA classes (m) (d)											
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]		(b)												
			Beach and boat seine [SB] [SV]		(b)												
	Other gear	Other gear	Glass eel fishing (no code)	Glass eel	(b)												
	Misc. (Specify)	Misc. (Specify)			(b)												
Other activity than fishing				Other activity than fishing													
Inactive				Inactive													

## Footnotes:

- (a) according to existing coding in relevant Regulations.  
 (b) according to existing coding in relevant Regulations.  
 (c) with Fish Aggregating Devices (FADs)/in free schools.  
 (d) in the Mediterranean < 6m and 6-12 m.

Table 3

**Species to be collected for recreational fisheries**

	Area	Species
1	Baltic Sea (ICES Subdivisions 22-32)	Salmon, eels and seatrout (including in fresh water) and cod.
2	North Sea (ICES areas IIIa, IV and VII d)	Salmon and eels (including in fresh water). Seabass, cod, pollack and elasmobranchs
3	Eastern Arctic (ICES areas I and II)	Salmon and eels (including in fresh water). Cod, pollack and elasmobranchs
4	North Atlantic (ICES areas V-XIV and NAFO areas)	Salmon and eels (including in fresh water). Seabass, cod, pollack, elasmobranchs and highly migratory ICCAT species.
5	Mediterranean Sea	Eels (including in fresh water), elasmobranchs and highly migratory ICCAT species.
6	Black Sea	Eels (including in fresh water), elasmobranchs and highly migratory ICCAT species

Table 4

**Fishing activity variables**

	Variables <sup>(1)</sup>	Unit
Capacity		
	Number of vessels	Number
	GT, kW, Vessel Age	Number
Effort		
	Days at sea	Days
	Hours fished (optional)	Hours
	Fishing days	Days
	kW * Fishing Days	Number
	GT * Fishing days	Number
	Number of trips	Number
	Number of fishing operations	Number
	Number of nets/Length (*)	Number/metres
	Number of hooks, Number of lines (*)	Number
	Numbers of pots, traps (*)	Number
Landings		
	Value of landings total and per commercial species	Euro
	Live Weight of landings total and per species	Tonnes
	Prices by commercial species	Euro/kg

<sup>(1)</sup> All variables to be reported at the aggregation level (metiers and fleet segment) specified in Table 3 and Table 5B. and by Sub-region/Fishing ground as specified in Table 5Cb.

(\*) Collection of these variables for vessels less than 10 metres is to be agreed at marine region level

## FLEET ECONOMIC DATA

Table 5A

**Economic variables for the fleet**

Variable group	Variable	Unit
<b>Income</b>	Gross value of landings	Euro
	Income from leasing out quota or other fishing rights	Euro
	Other income	Euro
<b>Labour costs</b>	Personnel costs	Euro
	Value of unpaid labour	Euro
<b>Energy costs</b>	Energy costs	Euro
<b>Repair and maintenance costs</b>	Repair and maintenance costs	Euro
<b>Other operating costs</b>	Variable costs	Euro
	Non-variable costs	Euro
	Lease/rental payments for quota or other fishing rights	Euro
<b>Subsidies</b>	Operating subsidies	Euro
	Subsidies on investments	Euro
<b>Capital costs</b>	Consumption of fixed capital	Euro
<b>Capital value</b>	Value of physical capital	Euro
	Value of quota and other fishing rights	Euro
<b>Investments</b>	Investments in tangible assets, net	Euro
<b>Financial position</b>	Long/short Debt	Euro
	Total assets	Euro
<b>Employment</b>	Engaged crew	Number
	Unpaid labour	Number
	Total hours worked per year	Number

Variable group	Variable	Unit
<b>Fleet</b>	Number of vessels	Number
	Mean LOA of vessels	Metres
	Total vessel's tonnage	GT
	Total vessel's power	kW
	Mean age of vessels	Years
<b>Effort</b>	Days at sea	Days
	Energy consumption	Litres
<b>Number of fishing enterprises/ units</b>	Number of fishing enterprises/units	Number
<b>Production value per species</b>	Value of landings per species	Euro
	Average price per species	Euro/kg

## FLEET ECONOMIC DATA

Table 5B

**Fleet segmentation**

		Length classes (LOA) (1)					
Active Vessels		0-< 10 m 0-< 6 m	10-< 12 m 6-< 12 m	12-< 18 m	18-< 24 m	24-< 40 m	40 m or larger
<b>Using 'Active' gears</b>	Beam trawlers						
	Demersal trawlers and/or demersal seiners						
	Pelagic trawlers						
	Purse seiners						
	Dredgers						
	Vessel using other active gears						
	Vessels using Polyvalent 'active' gears only						



		Length classes (LOA) <sup>(1)</sup>					
Active Vessels		0-< 10 m 0-< 6 m	10-< 12 m 6-< 12 m	12-< 18 m	18-< 24 m	24-< 40 m	40 m or larger
<b>Using 'Passive' gears</b>	Vessels using hooks	(2)	(2)				
	Drift and/or fixed netters						
	Vessels using Pots and/or traps						
	Vessels using other Passive gears						
	Vessels using Polyvalent 'passive' gears only						
<b>Using Polyvalent gears</b>	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. The fleet segment definition shall also include an indication of the supraregion and, if available, a geographical indicator to identify vessels fishing in outermost regions and exclusively outside EU waters

## FLEET ECONOMIC DATA

Table 5C

**Geographical stratification by region**

Sub-region/Fishing ground	Region	Supra region
I	II	III
Cluster of spatial units on level 3 as defined in Table 3 (NAFO Division)	NAFO (FAO area 21)	Baltic Sea; North Sea; Eastern Arctic; NAFO; Extended North-Western waters (Ices areas V, VI and VII) and Southern Western waters
Cluster of spatial units on level 4 as defined in Table 3 (ICES sub-division)	Baltic Sea (ICES areas III b-d)	
Cluster of spatial units on level 3 as defined in Table 3 (ICES Division)	North Sea (ICES areas IIIa and IV), Eastern Arctic (ICES areas I and II)	
	North-Western waters (ICES areas Vb (only Union waters), VI and VII)	
	Non-Union North-Western waters (ICES areas Va and Vb) (only non-Union waters))	

Sub-region/Fishing ground	Region	Supra region
I	II	III
Cluster of spatial units on level 3 as defined in Table 3 (ICES/CECAF Division)	Southern Western waters (ICES zones VIII, IX and X (waters around Azores), CECAF areas 34.1.1, 34.1.2 and 34.2.0 (waters around Madeira and the Canary Islands))	
Cluster of spatial units on level 4 as defined in Table 3 (GSA)	Mediterranean Sea (Maritime Waters of the Mediterranean to the east of line 5° 36' West), Black Sea (GFCM geographical sub-area as defined in Resolution FCM/33/2009/2)	Mediterranean Sea and Black Sea
RFMO's sampling sub-areas (except GFCM)	Other regions where fisheries are operated by Union vessels and managed by RFMOs to which the European Union is contracting party or observer (e.g. ICCAT, IOTC, CECAF etc.)	Other regions.

Table 6

#### Social variables for the fishing and aquaculture sectors

Variable	Unit
Employment by gender	Number
FTE by gender	Number
Unpaid labour by gender	Number
Employment by age	Number
Employment by education level	Number per education level
Employment by nationality	Number from EU, EEA and Non-EU/EEA
Employment by employment status	Number
FTE National	Number

Table 7

#### Economic variables for the aquaculture sector

Variable group	Variable	Unit
<b>Income (*)</b>	Gross sales per species	Euro
	Other income	Euro

Variable group	Variable	Unit
<b>Personnel costs</b>	Personnel costs	Euro
	Value of unpaid labour	Euro
<b>Energy costs</b>	Energy costs	Euro
<b>Raw material costs</b>	Livestock costs	Euro
	Feed costs	Euro
<b>Repair and maintenance</b>	Repair and maintenance	Euro
<b>Other operating costs</b>	Other operating costs	Euro
<b>Subsidies</b>	Operating subsidies	Euro
	Subsidies on investments	Euro
<b>Capital costs</b>	Consumption of fixed capital	Euro
<b>Capital value</b>	Total value of assets	Euro
<b>Financial results</b>	Financial income	Euro
	Financial expenditures	Euro
<b>Investments</b>	Net Investments	Euro
<b>Debt</b>	Debt	Euro
<b>Raw material weight</b>	Livestock used	kg
	Fish Feed used	kg
<b>Weight of sales</b>	Weight of sales per species	Kg
<b>Employment</b>	persons employed	Number/FTE
	Unpaid labour	Number/FTE
	Number of hours worked by employees and unpaid workers	Hours
<b>Number of enterprises</b>	Number of enterprises (by category on the number of persons employed)	Number

(\*) 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.



	Fish farming techniques <sup>(2)</sup>						Poly-culture	Hatcheries and nurseries <sup>(3)</sup>	Shellfish farming techniques			
	Ponds	Tanks and race-ways	Enclosures and pens <sup>(6)</sup>	Recirculation systems <sup>(5)</sup>	Other methods	Cages <sup>(7)</sup>			All methods		Off-bottom	
									Rafts	Long line		
Oyster												
Clam												
Crustaceans												
Other molluscs												
Multispecies												
Seaweeds												
Other aquatic organisms												

<sup>(1)</sup> For definitions of farming techniques, see Regulation (EC) No 762/2008.

<sup>(2)</sup> Enterprises shall be segmented according to their main farming technique.

<sup>(3)</sup> 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 of 19 July 2007)

<sup>(4)</sup> 'On-bottom' techniques cover shellfish farming in inter-tidal areas (directly on the ground or surelevated)

<sup>(5)</sup> Recirculation systems means systems where the water is reused after some form of treatment (e.g. filtering).

<sup>(6)</sup> Enclosures and pens are defined as areas of water confined by nets, mesh and other barriers allowing uncontrolled water interchange and distinguished by the fact that enclosures occupy the full water column between substrate and surface; pens and enclosures generally enclose a relatively large volume of water. (COM(2006) 864 of 19 July 2007).

<sup>(7)</sup> 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 of 19 July 2007).

Table 10

### Research surveys at sea

Name of the survey	Acronym	Area	Period	Main targeted species
Baltic Sea				
Baltic International Trawl Survey	BITS Q1 BITS Q4	IIIaS, IIIb-d	1st and 4th Quarter	Cod and other demersal species
Baltic International Acoustic Survey (Autumn)	BIAS	IIIa, IIIb-d	Sep-Oct	Herring and sprat
Gulf of Riga Acoustic Herring Survey	GRAHS	III d	3rd Quarter	Herring

Name of the survey	Acronym	Area	Period	Main targeted species
Sprat Acoustic Survey	SPRAS	IIIId	May	Sprat and herring
Rügen Herring Larvae Survey	RHLS	IIIId	March-June	Herring

## North Sea and Eastern Arctic (ICES areas 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.
North Sea Beam Trawl Survey	BTS	IVb, IVc, VIIId	3rd Quarter	Plaice, Sole
Demersal Young Fish Survey	DYFS	Coasts of NS	3rd and 4th Quarter	Plaice, sole, brown shrimp
Sole Net Survey	SNS	IVb, IVc	3rd Quarter	Sole, Plaice
North Sea Sandeels Survey	NSSS	IVa, IVb	4th Quarter	Sandeels
International Ecosystem Survey in the Nordic Seas	ASH	IIa	May	Herring, Blue whiting
Redfish Survey in the Norwegian Sea and adjacent waters	REDNOR	II	August- September	Redfish
Mackerel egg Survey (Triennial)	NSMEGS	IV	May-July	Mackerel egg production
Herring Larvae survey	IHLS	IV, VIIId	1st and 3rd Quarter	Herring, Sprat Larvae
NS Herring Acoustic Survey	NHAS	IIIa, IV, VIa	June, July	Herring, Sprat
Nephrops TVsurvey (FU 3&4)	NTV3&4	IIIa	2nd or 3rd Quarter	Nephrops
Nephrops TVsurvey (FU 6)	NTV6	IVb	September	Nephrops
Nephrops TVsurvey (FU 7)	NTV7	IVa	2nd or 3rd Quarter	Nephrops
Nephrops TVsurvey (FU 8)	NTV8	IVb	2nd or 3rd Quarter	Nephrops
Nephrops TVsurvey (FU 9)	NTV9	IVa	2nd or 3rd Quarter	Nephrops

Name of the survey	Acronym	Area	Period	Main targeted species
North Atlantic (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
Flemish Cap Groundfish survey	FCGS	3M	July	Demersal species
Greenland Groundfish survey	GGS	XIV, NAFO SA1	October/November	Cod, redfish and other demersal species
3LNO Groundfish survey	PLATUXA	NAFO 3LNO	2nd or 3rd Quarter	Demersal species
Western IBTS 4th quarter (including Porcupine survey)	IBTS Q4	VIa, VII, VIII, IXa	4th Quarter	Demersal species
Scottish Western IBTS	IBTS Q1	VIa, VIIa	March	Gadoids, herring, mackerel
ISBCBTS September	ISBCBTS	VIIa f g	September	Sole, Plaice
WCBTS	VIIe BTS	VIIe	October	Sole, Plaice, Anglerfish, Lemon sole
Blue whiting survey		VI, VII	1st and 2nd Quarter	Blue whiting
International Mackerel and Horse Mackerel Egg Survey (Triennial)	MEGS	VIa, VII, VIII, IXa	January-July	Mackerel, Horse Mackerel egg production
Sardine, Anchovy Horse Mackerel Acoustic Survey		VIII, IX	March-April-May	Sardine, Anchovy, Mackerel, Horse Mackerel abundance indices
Sardine DEPM (Triennial)		VIIIc, IXa	2nd and 4th Quarter	Sardine SSB and use of CUFES
Spawning/Pre-spawning Herring/Boarfish acoustic survey		VIa, VIIa-g	July, Sept, Nov, March, Jan	Herring, Sprat
Biomass of Anchovy	BIOMAN	VIII	May	Anchovy SSB (DEP)
Nephrops UWTV survey (offshore)	UWTV (FU 11-13)	VIa	2nd or 3rd Quarter	Nephrops

Name of the survey	Acronym	Area	Period	Main targeted species
Nephrops UWTV Irish Sea	UWTV (FU 15)	VIIa	August	Nephrops
Nephrops UWTV sur- vey Aran Grounds	UWTV (FU 17)	VIIb	June	Nephrops
Nephrops UWTV sur- vey Celtic Sea	UWTV (FU 20-22)	VIIg,h,j	July	Nephrops
Nephrops Survey Offshore Portugal NepS	UWTV (FU 28-29)	IXa	June	Nephrops
Mediterranean waters and Black sea				
Pan-Mediterranean Acoustic Survey ()	MEDIAS	GSA 1, 6, 7, 9, 10, 15, 16, 17, 18, 20, 22	Spring-summer (qtrs 2-3)	Small pelagic species
Bottom trawl survey in Black Sea,	BTSBS	GSA 29	Spring-autumn (qtrs 2, 3, 4)	Turbot
Pelagic trawl survey in Black Sea,	PTSBS	GSA 29	Spring-autumn (qtrs 2, 3, 4)	Sprat and whiting
International bottom trawl survey in the Mediterranean (),	MEDITS	GSA 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 22, 23, 25	Spring-summer (qtrs 2-3)	Demersal species

Table 11

**Economic and social variables for the processing industry sector that may be collected on a voluntary basis**

Variable group	Variable	Unit
ECONOMIC VARIABLES		
<b>Income</b>	Turnover	Euro
	Other income	Euro
<b>Personnel costs</b>	Personnel costs	Euro
	Value of unpaid labour	Euro
	Payment for external agency workers (optional)	Euro
<b>Energy costs</b>	Energy costs	Euro
<b>Raw material costs</b>	Purchase of fish and other raw material for production	Euro



Variable group	Variable	Unit
<b>Other operational costs</b>	Other operational costs	Euro
<b>Subsidies</b>	Operating subsidies	Euro
	Subsidies on investments	Euro
<b>Capital costs</b>	Consumption of fixed capital	Euro
<b>Capital value</b>	Total value of assets	Euro
<b>Financial results</b>	Financial income	Euro
	Financial expenditures	Euro
<b>Investments</b>	Net investments	Euro
<b>Debt</b>	Debt	Euro
<b>Employment</b>	Number of persons employed	Number
	FTE National	Number
	Unpaid labour	Number
	Number of hours worked by employees and unpaid workers	Number
<b>Number of enterprises</b>	Number of enterprises	Number
<b>Weight of raw material (optional)</b>	Weight of raw material per species and origin (optional)	Kg

## SOCIAL VARIABLES

Employment by gender	Number
Employment by age	Number
Employment by education level	Number per education level
Employment by nationality	Number per country in the world
FTE National	Number