# 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 ([1]), 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 ([2]) 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 ([3]) 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).

([1]) OJ L 60, 5.3.2008, p. 1.

([2]) 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).

([3]) 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 ([1]), Commission Implementing Regulation (EU) No 404/2011 ([2]), and Regulation (EU) No 1380/2013 of the European Parliament and of the Council ([3]) 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 ([4]), 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.

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([1]) 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).

([2]) 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).

([3]) 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).

([4]) 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 ([1]);

(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;

([1]) 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 ([1]), unless a lower level of aggregation is required at regional level, in particular in the case of marine protected areas.

([1]) 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** [1] **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 metier 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 [2] 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.

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[1] 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).

[2] 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 ([1]) 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

([1]) 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 [1] 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.

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

| Species (common name) | Species (scientific name) | Area (ICES [1]), IBSFC [2]) or FAO [3]) area code) where the stock is located/stock code |
|---|---|---|
| Cod | *Gadus morhua* | IIIaN |
| Cod | *Gadus morhua* | IIIaS |
| Witch flounder | *Glyptocephalus cynoglossus* | IIIa |
| Dab | *Limanda limanda* | IIIa |
| Haddock | *Melanogrammus aeglefinus* | IIIa |
| Whiting | *Merlangius merlangus* | IIIa |
| Hake | *Merluccius merluccius* | IIIa, |
| Blue whiting | *Micromesistius poutassou* | IIIa |
| Norway lobster | *Nephrops norvegicus* | Functional unit |
| Northern shrimp | *Pandalus borealis* | IIIa |
| Plaice | *Pleuronectes platessa* | IIIa |
| Saithe | *Pollachius virens* | IIIa |
| Salmon | *Salmo salar* | IIIa |
| Turbot | *Psetta maxima* | IIIa |
| Mackerel | *Scomber scombrus* | IIIa |
| Brill | *Scophthalmus rhombus* | IIIa |
| Sole | *Solea solea* | IIIa |
| Sprat | *Sprattus sprattus* | IIIa |
| Norway pout | *Trisopterus esmarki* | IIIa |
| All commercial sharks, rays & skates [4]) | *Selachii, Rajidae* | IIIa |
| Baltic Sea — | | |
| European eel | *Anguilla anguilla* | 22-32 |
| Herring | *Clupea harengus* | 22-24/25-29, 32/30/31/Gulf of Riga |
| Common whitefish/houting | *Coregonus lavaretus* | IIId |
| Vendace | *Coregonus albula* | 22-32 |
| Cod | *Gadus morhua* | 22-24/25-32 |

| Species (common name) | Species (scientific name) | Area (ICES [1]), IBSFC [2]) or FAO [3]) area code) where the stock is located/stock code |
|---|---|---|
| Dab | *Limanda limanda* | 22-32 |
| Perch | *Perca fluviatilis* | IIId |
| Flounder | *Platichthys flesus* | 22-32 |
| Plaice | *Pleuronectes platessa* | 22-32 |
| Turbot | *Psetta maxima* | 22-32 |
| Salmon | *Salmo salar* | 22-31/32 |
| Sea trout | *Salmo trutta* | 22-32 |
| Pike-perch | *Sander lucioperca* | IIId |
| Brill | *Scophthalmus rhombus* | 22-32 |
| Sole | *Solea solea* | 22 |
| Sprat | *Sprattus sprattus* | 22-32 |
| | North Sea and Eastern Channel | |
| Sand eel | *Ammodytidae* | IV |
| Catfish | *Anarhichas* spp. | IV |
| European eel | *Anguilla anguilla* | IV, VIId |
| Argentine | *Argentina* spp. | IV |
| Grey gurnard | *Eutrigla gurnardus* | IV |
| Tusk | *Brosme brosme* | IV |
| Herring | *Clupea harengus* | IV, VIId |
| Common shrimp | *Crangon crangon* | IV, VIId |
| Sea bass | *Dicentrarchus labrax* | IV, VIId |
| Grey gurnard | *Eutrigla gurnardus* | IV |
| Cod | *Gadus morhua* | IV, VIId |
| Witch flounder | *Glyptocephalus cynoglossus* | IV |
| Blue-mouth rockfish | *Helicolenus dactylopterus* | IV |
| Four-spot megrim | *Lepidorhombus boscii* | IV, VIId |

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

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

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

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

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

| Species (common name) | Species (scientific name) | Area (ICES [1]), IBSFC [2]) or FAO [3]) area code) where the stock is located/stock code |
|---|---|---|
| Sole | *Solea solea* | VIIe |
| Sole | *Solea solea* | VIIIab |
| Sea breams (in plural) | *Sparidae* | all areas |
| Mediterranean horse mackerel | *Trachurus mediterraneus* | VIII, IX |
| Blue jack mackerel | *Trachurus picturatus* | VIII, IX, X |
| Horse mackerel | *Trachurus trachurus* | IIa, IVa, Vb, VIa, VIIa-c, e-k, VIIIabde/X |
| Horse mackerel | *Trachurus trachurus* | VIIIc, IXa |
| Pouting | *Trisopterus* spp. | all areas |
| John Dory | *Zeus faber* | all areas |
| All commercial sharks, rays & skates [4]) | *Selachii, Rajidae* | IV, VIId |
| | Mediterranean Sea and Black Sea | |
| European eel | *Anguilla anguilla* | all areas in the Med |
| Giant red shrimp | *Aristeomorpha foliacea* | all areas in the Med |
| Red shrimp | *Aristeus antennatus* | all areas in the Med |
| Bogue | *Boops boops* | 1.3, 2.1, 2.2, 3.1, 3.2 |
| Dolphinfish | *Coryphaena equiselis* | all areas in the Med |
| Dolphinfish | *Coryphaena hippurus* | all areas in the Med |
| Sea bass | *Dicentrarchus labrax* | all areas in the Med |
| Horned/curled octopus | *Eledone cirrhosa* | 1.1, 1.3, 2.1, 2.2, 3.1 |
| Musky octopus | *Eledone moschata* | 1.3, 2.1, 2.2, 3.1 |
| Anchovy | *Engraulis encrasicolus* | all areas in the Med |
| Anchovy | *Engraulis encrasicolus* | Black Sea GSA 29 |
| Grey gurnard | *Eutrigla gurnardus* | 2.2, 3.1 |
| Squid | *Illex* spp., *Todarodes* spp. | all areas in the Med |
| Billfish | *Istiophoridae* | all areas in the Med |

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

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

[1] International Council for the Exploration of the Sea.
[2] International Baltic Sea Fisheries Commission.
[3] Food and Agricultural Organisation of the United Nations.
[4] 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 | *Lutjanus purpureus* |
| Prawns | *Farfantepenaeus subtilis* |
| Acoupa weakfish | *Cynoscion acoupa* |
| Smalltooth weakfish | *Cynoscion steindachneri* |
| Green weakfish | *Cynoscion virescens* |
| Sea catfishes | *Ariidae* |
| Tripletail | *Lobotes surinamensis* |
| Torroto grunt | *Genyatremus luteus* |
| Snooks | *Centropomus* spp. |

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

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<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Geographical Area | Priority | |
| *Thunnus albacares* | Yellowfin tuna | East Pacific Ocean | High | The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments. |
| *Thunnus obesus* | Bigeye tuna | East Pacific Ocean | High | |
| *Katsuwonus pelamis* | Skipjack tuna | East Pacific Ocean | High | |
| *Thunnus alalunga* | Albacore tuna | East Pacific Ocean | High | |
| *Thunnus orientalis* | Pacific bluefin tuna | East Pacific Ocean | High | |
| *Xiphias gladius* | Swordfish | East Pacific Ocean | High | |
| *Makaira nigricans (or mazara)* | Blue marlin | East Pacific Ocean | High | |
| *Makaira indica* | Black marlin | East Pacific Ocean | High | |
| *Tetrapturus audax* | Striped marlin | East Pacific Ocean | High | |

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

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Geographical Area | Priority | |
| *Thunnus albacares* | Yellowfin tuna | Atlantic Ocean and adjacent seas | High | The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments. |
| *Thunnus obesus* | Bigeye tuna | Atlantic Ocean and adjacent seas | High | |
| *Katsuwonus pelamis* | Skipjack tuna | Atlantic Ocean and adjacent seas | High | |
| *Thunnus alalunga* | Albacore tuna | Atlantic Ocean and adjacent seas | High | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Thunnus thynnus* | Bluefin tuna | Atlantic Ocean and adjacent seas | High | |
| *Xiphias gladius* | Swordfish | Atlantic Ocean and adjacent seas | High | |
| *Makaira nigricans (or mazara)* | Blue marlin | Atlantic Ocean and adjacent seas | High | |
| *Istiophorus albicans* | Sailfish | Atlantic Ocean and adjacent seas | High | |
| *Tetrapturus albidus* | White marlin | Atlantic Ocean and adjacent seas | High | |
| *Prionace glauca* | Blue shark | Atlantic Ocean and adjacent seas | High | |
| *Auxis rochei* | Bullet tuna | Atlantic Ocean and adjacent seas | High | |
| *Sarda sarda* | Atlantic bonito | Atlantic Ocean and adjacent seas | High | |
| *Euthynnus alleteratus* | Atlantic back skipjack | Atlantic Ocean and adjacent seas | Medium | |
| *Thunnus atlanticus* | Blackfin tuna | Atlantic Ocean and adjacent seas | Medium | |
| *Orcynopsis unicolor* | Plain bonito | Atlantic Ocean and adjacent seas | Medium | |
| *Scomberomorus brasiliensis* | Serra Spanish mackerel | Atlantic Ocean and adjacent seas | Medium | |
| *Scomberomorus regalis* | Cero | Atlantic Ocean and adjacent seas | Medium | |
| *Auxis thazard* | Frigate tuna | Atlantic Ocean and adjacent seas | Medium | |
| *Scomberomorus cavalla* | King mackerel | Atlantic Ocean and adjacent seas | Medium | |
| *Scomberomorus tritor* | West African Spanish mackerel | Atlantic Ocean and adjacent seas | Medium | |
| *Scomberomorus maculatus* | Atlantic Spanish mackerel | Atlantic Ocean and adjacent seas | Medium | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Acanthocybium solandri* | Wahoo | Atlantic Ocean and adjacent seas | Medium | |
| *Coryphaena hippurus* | Dolphinfish | Atlantic Ocean and adjacent seas | Medium | |

NAFO (North Atlantic Fisheries Organisation)

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Stocks as defined by the RFMO | Priority | |
| *Gadus morhua* | Cod | NAFO 2J 3KL | Low | |
| *Gadus morhua* | Cod | NAFO 3M | High | |
| *Gadus morhua* | Cod | NAFO 3NO | High | |
| *Gadus morhua* | Cod | NAFO 3Ps | High | |
| *Gadus morhua* | Cod | NAFO SA1 | High | |
| *Glyptocephalus cynoglossus* | Witch flounder | NAFO 3NO | High | |
| *Glyptocephalus cynoglossus* | Witch flounder | NAFO 2J3KL | Low | |
| *Hippoglossoides platessoides* | American plaice | NAFO 3LNO | High | |
| *Hippoglossoides platessoides* | American plaice | NAFO 3M | High | |
| *Limanda ferruginea* | Yellowtail flounder | NAFO 3LNO | Medium | |
| *Coryphaenoides rupestris* | Roundnose Grenadier | NAFO SA0 + 1 | Low | |
| *Macrourus berglax* | Roughhead grenadier | NAFO SA2 + 3 | High | |
| *Pandalus borealis* | Northern shrimp | NAFO 3LNO | High | |
| *Pandalus borealis* | Northern shrimp | NAFO 3M | High | |
| *Amblyraja radiata* | Thorny skate | NAFO 3LNOPs | High | |
| *Reinhardtius hippoglossoides* | Greenland halibut | NAFO 3KLMNO | High | |

The data collection is annual and the updating/processing of the data must be done timely to fit the schedule of the stock assessments.

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Reinhardtius hippoglossoides* | Greenland halibut | NAFO SA1 | High | |
| *Hippoglossus hippoglossus* | Atlantic halibut | NAFO SA1 | Low | |
| *Sebastes mentella* | Redfish | NAFO SA1 | High | |
| *Sebastes* spp. | Redfish | NAFO 3LN | High | |
| *Sebastes* spp. | Redfish | NAFO 3M | High | |
| *Sebastes* spp. | Redfish | NAFO 3O | High | |
| *Urophycis tenuis* | White hake | NAFO 3NO | High | |
| *Mallotus villosus* | Capelin | NAFO 3NO | High | |
| *Beryx sp.* | Alfonsinos | NAFO 6G | High | |
| *Illex illecebrosus* | Shortfin squid | NAFO Subareas 3 + 4 | Low | |
| *Salmo salar* | Salmon | NAFO S1 + ICES Sub-area XIV, NEAF, NASCO | High | |

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

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Geographical Area | Priority | |
| *Brachydeuterus* spp. | Grunt | 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Caranx* spp. | Jack | 34.3.1, 34.3.3-6 | high | |
| *Cynoglossus* spp. | Tongue sole | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | 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. |
| *Decapterus* spp. | Scad | 34.3.1, 34.3.3-6 | high | |
| *Dentex canariensis* | Canary dentex | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | medium | |
| *Dentex congoensis* | Congo dentex | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | medium | |
| *Dentex macrophthalmus* | Large-eye dentex | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Dentex maroccanus* | Morocco dentex | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | medium | |
| *Dentex* spp. | Dentex | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Engraulis encrasicolus* | Anchovy | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Epinephelus aeneus* | White grouper | 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Ethmalosa fimbriata* | Bonga shad | 34.3.1, 34.3.3-6 | high | |
| *Farfantepenaeus notialis* | Southern pink shrimp | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Galeoides decadactylus* | Lesser African threadfin | 34.1.3, 34.3.1, 34.3.3-6 | 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. |
| *Loligo vulgaris* | Common squid | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Merluccius polli* | Benguela hake | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Merluccius senegalensis* | Senegalese hake | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Merluccius* spp. | Other hake | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | medium | |
| *Octopus vulgaris* | Common octopus | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Pagellus acarne* | axillary sea bream | 34.1.1 | high | |
| *Pagellus bellottii* | Red pandora | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Pagellus bogaraveo* | Blackspot sea bream | 34.1.1 | medium | |
| *Pagellus* spp. | Pandora | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Pagrus caeruleostictus* | Blue spotted sea bream | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Parapenaeus longirostris* | Deepwater rose shrimp | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Pomadasys incisus* | Bastard grunt | 34.1.1 | medium | |
| *Pomadasys* spp. | Grunt | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Pseudotolithus* spp. | West African croakers | 34.1.1 | high | |
| *Sardina pilchardus* | Sardine | 34.1.1, 34.1.3 | high | |
| *Sardinella aurita* | Round sardinella | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Sardinella maderensis* | Short-body sardinella | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | 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. |
| *Scomber japonicus* | Chub mackerel | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Scomber* spp. | Other Mackerel | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Sepia hierredda* | Cuttlefish | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Sepia officinalis* | Common cuttlefish | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Sepia* spp. | Cuttlefishes | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | medium | |
| *Sparidae* | Sea bream | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Sparus* spp. | Sea bream | 34.1.1 | high | |
| *Trachurus trachurus* | Atlantic horse mackerel | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Trachurus trecae* | Cunene horse mackerel | 34.1.1, 34.1.3, 34.3.1, 34.3.3-6 | high | |
| *Umbrina canariensis* | Canary drum | 34.3.3-6 | medium | |

SEAFO (South-East Atlantic Fisheries Organisation)

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| 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. |
| *Dissostichus eleginoides* | Patagonian toothfish | South-East Atlantic | *High* | |
| *Beryx* spp. | Alfonsinos | South-East Atlantic | *High* | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Chaceon* spp. | Red/Golden crabs | South-East Atlantic | *High* | |
| *Pseudopentaceros richardsoni* | Pelagic armourhead/ Southern boarfish | South-East Atlantic | *High* | |
| *Helicolenus* spp. | Blackbelly rosefishes | South-East Atlantic | *High* | |
| *Hoplostethus atlanticus* | Orange roughy | South-East Atlantic | *High* | |
| *Trachurus* spp. | Horse mackerel | South-East Atlantic | *High* | |
| *Scomber* spp. | Mackerel | South-East Atlantic | *High* | |
| *Polyprion americanus* | Wreckfish | South-East Atlantic | *Medium* | |
| *Jasus tristani* | Tristan rock lobster | South-East Atlantic | *Medium* | |
| *Lepidotus caudatus* | Silver scabbardfish | South-East Atlantic | *Medium* | |
| *Schedophilus ovalis* | Imperial blackfish | South-East Atlantic | *Low* | |
| *Schedophilus velaini* | Violet warehou | South-East Atlantic | *Low* | |
| *Allocyttus verucossus* | Oreo dories | South-East Atlantic | *Low* | |
| *Neocyttus romboidales* | | South-East Atlantic | | |
| *Allocyttus guineensis* | | South-East Atlantic | | |
| *Pseudocyttu smaculatus* | | South-East Atlantic | | |
| *Emmelichthys nitidus* | Cape bonnetmouth | South-East Atlantic | *Low* | |
| *Ruvettus pretiosus* | Oilfish | South-East Atlantic | *Low* | |
| *Promethichthys prometheus* | Roudi escolar | South-East Atlantic | *Low* | |
| *Macrourus* spp. | Grenadiers | South-East Atlantic | *Low* | |
| *Antimora rostrata* | Blue antimora | South-East Atlantic | *Low* | |
| *Epigonus* spp. | Cardinal fish | South-East Atlantic | *Low* | |
| *Merluccius* spp. | Hake | South-East Atlantic | *Low* | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Notopogon fernandezianus* | Orange bellowfish | South-East Atlantic | *Low* | |
| *Octopodidae and Loliginidae* | Octopus and squids | South-East Atlantic | *Low* | |

WCPFC (Western and Central Pacific Fisheries Commission)

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Geographical Area | Priority | |
| *Thunnus albacares* | Yellowfin tuna | West Central Pacific Ocean | High | |
| *Thunnus obesus* | Bigeye tuna | West Central Pacific Ocean | High | |
| *Katsuwonus pelamis* | Skipjack tuna | West Central Pacific Ocean | High | |
| *Thunnus alalunga* | Albacore tuna | West Central Pacific Ocean | High | |
| *Thunnus orientalis* | Pacific bluefin tuna | West Central Pacific Ocean | High | |
| *Xiphias gladius* | Swordfish | West Central Pacific Ocean | High | |
| *Makaira nigricans (or mazara)* | Blue marlin | West Central Pacific Ocean | High | |
| *Makaira indica* | Black marlin | West Central Pacific Ocean | High | |
| *Tetrapturus audax* | Striped marlin | West Central Pacific Ocean | High | |
| *Acanthocybium solandri* | Wahoo | West Central Pacific Ocean | Medium | |
| *Coryphaena hippurus* | Dolphinfish | West Central Pacific Ocean | Medium | |
| *Elagatis bipinnulata* | Rainbow runner | West Central Pacific Ocean | Medium | |
| *Lepidocybium flavobrunneum* | Escolar | West Central Pacific Ocean | Medium | |
| *Lampris regius* | Moonfish (opah) | West Central Pacific Ocean | 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.

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Mola mola* | Sunfish | West Central Pacific Ocean | Medium | |
| *Istiophorus platypterus* | Sailfish | West Central Pacific Ocean | Medium | |
| *Tetrapturus angustirostris* | Spearfish | West Central Pacific Ocean | Medium | |
| *Ruvettus pretiosus* | Oilfish | West Central Pacific Ocean | Medium | |
| *Prionace glauca* | Blue shark | West Central Pacific Ocean | High | |
| *Carcharhinus longimanus* | Oceanic whitetip shark | West Central Pacific Ocean | High | |
| *Carcharhinus falciformis* | Silky shark | West Central Pacific Ocean | High | |
| *Alopias superciliosus* | big eye thresher | West Central Pacific Ocean | High | |
| *Alopias vulpinus* | Common thresher | West Central Pacific Ocean | High | |
| *Alopias pelagicus* | 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<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| 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. |
| *Panulirus argus* | Caribbean spiny lobster | West Central Atlantic | High | |
| *Strombus gigas* | Queen conch | West Central Atlantic | High | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Shark-like Selachii, Rajidae* | Sharks, rays & skates | West Central Atlantic | High | |
| *Coryphaena hippurus* | Dolphin fish | West Central Atlantic | High | |
| *Acanthocybium solandri* | Wahoo | West Central Atlantic | High | |
| *Epinephelus guttatus* | Red hind | West Central Atlantic | High | |
| *Lutjanus vivanus* | Silk snapper | West Central Atlantic | High | |
| *Lutjanus buccanella* | Blackfin snapper | West Central Atlantic | High | |
| *Lutjanus campechanus* | Red snapper | West Central Atlantic | High | |
| *Penaeus subtilis* | Penaeus shrimp | French Guiana EEZ | High | |

IOTC (Indian Ocean Tuna Commission)

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| Scientific name | Common name | Geographical Area | Priority | |
| *Thunnus albacares* | Yellowfin tuna | Indian Ocean Western and Eastern | High | |
| *Thunnus obesus* | Bigeye tuna | Indian Ocean Western and Eastern | High | |
| *Katsuwonus pelamis* | Skipjack tuna | Indian Ocean Western and Eastern | High | |
| *Thunnus alalunga* | Albacore tuna | Indian Ocean Western and Eastern | 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. |
| *Xiphias gladius* | Swordfish | Indian Ocean Western and Eastern | High | |
| *Makaira nigricans (or mazara)* | Blue marlin | Indian Ocean Western and Eastern | High | |
| *Makaira indica* | Black marlin | Indian Ocean Western and Eastern | High | |
| *Tetrapturus audax* | Striped marlin | Indian Ocean Western and Eastern | High | |
| *Istiophorus platypterus* | Indo-Pacific sailfish | Indian Ocean Western and Eastern | High | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Auxis rochei* | Bullet tuna | Indian Ocean Western and Eastern | Medium | |
| *Auxis thazard* | Frigate tuna | Indian Ocean Western and Eastern | Medium | |
| *Euthynnus affinis* | Kawakawa | Indian Ocean Western and Eastern | Medium | |
| *Thunnus tonggol* | Longtail tuna | Indian Ocean Western and Eastern | Medium | |
| *Scomberomorus guttatus* | Indo-Pacific king mackerel | Indian Ocean Western and Eastern | Medium | |
| *Scomberomorus commerson* | Narrow-barred Spanish mackerel | Indian Ocean Western and Eastern | Medium | |
| *Prionace glauca* | Blue shark | Indian Ocean Western and Eastern | High | |
| *Alopias superciliosus* | Bigeye thresher shark | Indian Ocean Western and Eastern | High | |
| *Carcharhinus falciformes* | Silky shark | Indian Ocean Western and Eastern | High | |
| *Carcharhinus longimanus* | Oceanic whitetip shark | Indian Ocean Western and Eastern | High | |
| *Alopias pelagicus* | Pelagic thresher shark | Indian Ocean Western and Eastern | High | |
| *Sphyrna lewini* | Scalloped hammerhead shark | Indian Ocean Western and Eastern | High | |

Other RFMOs

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| 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. |
| *Trachurus murphyi* | Jack mackerel | SPRFMO Convention Area | High | |
| *Euphausia superba* | Krill | CCAMLR Convention Area | High | |

| SPECIES<br>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. | | | | Frequency of collection of biological variables |
|---|---|---|---|---|
| *Dissostichus* spp.<br>*Dissostichus eleginoides and Dissostichus mawsoni)* | Toothfish | CCAMLR Convention Area | High | |
| *Champsocephalus gunnari* | 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 | *Acipenser* spp. | Mediterranean Sea and Black Sea; Baltic Sea; OSPAR II, IV | Annex II of the Barcelona Convention [1], Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol; OSPAR [2]; Helcom [3] |
| Smoothheads (Slickheads) | *Alepocephalidae* | All regions | Relevant for deep sea fisheries [4] |
| Baird's smoothhead | *Alepocephalus Bairdii* | All regions | Relevant for deep sea fisheries |
| Risso's smoothhead | *Alepocephalus rostratus* | All regions | Relevant for deep sea fisheries |
| Pontic shad | *Alosa immaculata* | Black Sea | Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol |
| Allis shad | *Alosa alosa* | OSPAR II, III, IV | OSPAR |
| Common Whitefish/ houting | *Coregonus lavaretus* | OSPAR II | OSPAR |
| Cod | *Gadus morhua* | OSPAR II, III; Baltic Sea | OSPAR; Helcom |

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

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

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

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

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

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

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

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

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

| Common name | Scientific name | Region/RFMO | Legal framework |
|---|---|---|---|
| Sailfin roughshark (Sharpback shark) | *Oxynotus paradoxus* | All oceans | RFMOs, High priority, Vulnerable species Relevant for deep sea fisheries |
| Smalltooth sawfish | *Pristis pectinata* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Common sawfish | *Pristis pristis* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Crocodile shark | *Pseudocarcharias kamoharai* | All oceans | RFMOs, High priority |
| Blue stingray | *Pteroplatytrygon violacea* | All oceans | RFMOs, High priority |
| Round skate | *Raja fyllae* | All regions | Relevant for deep sea fisheries |
| Arctic skate | *Raja hyperborea* | All regions | Relevant for deep sea fisheries |
| Norwegian skate | *Raja nidarosiensus* | All regions | Relevant for deep sea fisheries |
| Spotted ray | *Raja montagui* | OSPAR I, II, III, IV | OSPAR; Helcom |
| Whale shark | *Rhincodon typus* | All oceans | RFMOs, High priority |
| Blackchin guitarfish | *Rhinobatos cemiculus* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Common guitarfish | *Rhinobatos rhinobatos* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Straightnose rabbitfish | *Rhinochimaera atlantica* | All regions | Relevant for deep sea fisheries |
| Bottlenose skate | *Rostroraja alba* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Knifetooth dogfish | *Scymnodon ringens* | 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 | *Somniosus microcephalus* | All oceans | RFMOs, High priority, Relevant for deep sea fisheries; Helcom |

| Common name | Scientific name | Region/RFMO | Legal framework |
|---|---|---|---|
| Scalloped hammerhead | *Sphyrna lewini* | All oceans | RFMOs, High priority |
| Great hammerhead | *Sphyrna mokarran* | All oceans | RFMOs, High priority |
| Smooth hammerhead | *Sphyrna zygaena* | All oceans | RFMOs, High priority |
| Spurdog, spiked dogfish | *Squalus acanthias* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex III, OSPAR; Helcom |
| Sawback angelshark | *Squatina aculeata* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Smoothback angelshark | *Squatina oculata* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II |
| Angel shark | *Squatina squatina* | All oceans + Mediterranean and Black Sea | RFMOs, High priority, Barcelona Convention Annex II, OSPAR; Helcom |
| Sea lamprey | *Petromyzon marinus* | OSPAR I, II, III, IV | OSPAR; Helcom |
| River lamprey | *Lampetra fluviatilis* | Baltic sea | Helcom |
| Mammals | Mammalia | | |
| Cetaceans — all species | *Cetacea* — all species | All areas | Council Directive 92/43/EEC [7] |
| Minke whale | *Balaenoptera acutorostrata* | Mediterranean Sea | Rec. GFCM [8]/36/2012/2 & Annex II of the Barcelona Convention |
| Bowhead whale | *Balaena mysticetus* | OSPAR I | OSPAR |
| Blue whale | *Balaenoptera musculus* | All OSPAR | OSPAR |
| Northern right whale | *Eubalaena glacialis* | All OSPAR | OSPAR |
| Sei whale | *Balaenoptera borealis* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Fin whale | *Balaenoptera physalus* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Short-beaked common dolphin | *Delphinus delphis* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| North Atlantic right whale | *Eubalaena glacialis* | 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 | *Globicephala melas* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Risso's dolphin | *Grampus griseus* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Dwarf sperm whale | *Kogia simus* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Humpback whale | *Megaptera novaeangliae* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Blainville's beaked whale | *Mesoplodon densirostris* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Killer whale | *Orcinus orca* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Harbour porpoise | *Phocoena phocoena* | Mediterranean Sea; OSPAR II, III | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention; Directive 92/43/EEC; OSPAR |
| Sperm whale | *Physeter macrocephalus* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| False killer whale | *Pseudorca crassidens* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Striped dolphin | *Stenella coeruleoalba* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Rough-toothed dolphin | *Steno bredanensis* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Bottlenose dolphin | *Tursiops truncatus* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Cuvier's beaked whale | *Ziphius cavirostris* | Mediterranean Sea | Rec. GFCM/36/2012/2 & Annex II of the Barcelona Convention |
| Monk seal | *Monachus monachus* | All areas | Rec. GFCM/35/2011/5 & Annex II of the Barcelona Convention; Directive 92/43/EEC |
| Saimaa ringed seal | *Phoca hispida saimensis* | All areas | Directive 92/43/EEC |
| Grey seal | *Halichoerus grypus* | All areas | Directive 92/43/EEC |
| Harbour seal | *Phoca vitulina* | All areas | Directive 92/43/EEC |
| Baltic ringed seal | *Phoca hispida bottnica* | All areas | Directive 92/43/EEC |

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

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

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

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

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

| Common name | Scientific name | Region/RFMO | Legal framework |
|---|---|---|---|
| Hard clam | *Callista chione* | All areas | National management plans |
| Wedge shell | *Donax trunculus* | All areas | National management plans |
| Ocean quahog | *Arctica islandica* | OSPAR II | OSPAR |
| Azorean barnacle | *Megabalanus azoricus* | OSPAR V All where it occurs | OSPAR |
| Dog whelk | *Nucella lapillus* | OSPAR II, III, IV | OSPAR |
| Flat oyster | *Ostrea edulis* | OSPAR II | OSPAR |
| Azorean limpet | *Patella ulyssiponensis aspera* | All OSPAR where it occurs | OSPAR |
| Crustaceans | Crustacea | | |
| Lobster | *Homarus gammarus* | Mediterranean Sea | Regulation (EC) No 1967/2006 (min. cons. size) |
| Deep-water red crab | *Chaceon (Geryon) affinis* | All regions | Relevant for deep sea fisheries |
| Brown shrimp | *Crangon crangon* | Black Sea | Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol |
| Baltic prawn | *Palaemon adspersus* | Black Sea | Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol |
| Rockpool prawn | *Palaemon elegans* | Black Sea | Annex IV of the Black Sea Biodiversity and Landscape Conservation Protocol |
| Crawfish | *Palinuridae* | Mediterranean Sea | Regulation (EC) No 1967/2006 (min. cons. size) |
| Cnidarians | Cnidaria | | |
| Red coral | *Corallium rubrum* | 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 | *Anguilla anguilla* | Eel management units as defined in accordance with Council Regulation (EC) No 1100/2007 [1] |
| Salmon | *Salmo salar* | All areas of natural distribution |
| Sea trout | *Salmo trutta* | All inland waters that exit in the Baltic Sea |

[1] 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)<br>Catadromous species (CAT)<br>Cephalopods (CEP)<br>Crustaceans (CRU)<br>Demersal species (DEF)<br>Deep-Water species (DWS)<br>Finfish (FIF)<br>Freshwater species (no code)<br>Miscellaneous (MIS)<br>Mixed Cephalopod and Demersal (MCF)<br>Mixed Crustaceans and Demersal (MCD)<br>Mixed Deep-water species and Demersal (MDD)<br>Mixed Pelagic and Demersal (MPD)<br>Molluscs (MOL)<br>Large Pelagic fish (LPF)<br>Small Pelagic fish (SPF)<br>Large Pelagic fish (LPF) and Small Pelagic fish (SPF) | (b) | | | | | | |
| | | | Mechanised/ Suction dredge [HMD] | | (b) | | | | | | |
| | Trawls | Bottom trawls | Bottom otter trawl [OTB] | | (b) | | | | | | |
| | | | Multi-rig otter trawl [OTT] | | (b) | | | | | | |
| | | | Bottom pair trawl [PTB] | | (b) | | | | | | |
| | | | Beam trawl [TBB] | | (b) | | | | | | |
| | | Pelagic trawls | Midwater otter trawl [OTM] | | (b) | | | | | | |
| | | | Midwater pair trawl [PTM] | | (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 long-lines [LLD] | | (b) | | | | | | |
| | | | Set longlines [LLS] | | (b) | | | | | | |
| | Traps | Traps | Pots and Traps [FPO] | | (b) | | | | | | |
| | | | Fyke nets [FYK] | | (b) | | | | | | |
| | | | Stationary uncovered pound nets [FPN] | | (b) | | | | | | |
| | | | Fixed installa-tions for fences and weirs (code needed) | | (b) | | | | | | |
| | Nets | Nets | Trammel net [GTR] | | (b) | | | | | | |
| | | | Set gillnet [GNS] | | (b) | | | | | | |
| | | | Driftnet [GND] | | (b) | | | | | | |
| | Seines | Surround-ing 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 VIId) | 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 [1] | 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 |

[1] 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 |
|---|---|---|
| **Income** | Gross value of landings | Euro |
| | Income from leasing out quota or other fishing rights | Euro |
| | Other income | Euro |
| **Labour costs** | Personnel costs | Euro |
| | Value of unpaid labour | Euro |
| **Energy costs** | Energy costs | Euro |
| **Repair and maintenance costs** | Repair and maintenance costs | Euro |
| **Other operating costs** | Variable costs | Euro |
| | Non-variable costs | Euro |
| | Lease/rental payments for quota or other fishing rights | Euro |
| **Subsidies** | Operating subsidies | Euro |
| | Subsidies on investments | Euro |
| **Capital costs** | Consumption of fixed capital | Euro |
| **Capital value** | Value of physical capital | Euro |
| | Value of quota and other fishing rights | Euro |
| **Investments** | Investments in tangible assets, net | Euro |
| **Financial position** | Long/short Debt | Euro |
| | Total assets | Euro |
| **Employment** | Engaged crew | Number |
| | Unpaid labour | Number |
| | Total hours worked per year | Number |

| Variable group | Variable | Unit |
|---|---|---|
| **Fleet** | Number of vessels | Number |
| | Mean LOA of vessels | Metres |
| | Total vessel's tonnage | GT |
| | Total vessel's power | kW |
| | Mean age of vessels | Years |
| **Effort** | Days at sea | Days |
| | Energy consumption | Litres |
| **Number of fishing enterprises/ units** | Number of fishing enterprises/units | Number |
| **Production value per species** | 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<br>0-< 6 m | 10-< 12 m<br>6-< 12 m | 12-< 18 m | 18-< 24 m | 24-< 40 m | 40 m or larger |
| **Using 'Active' gears** | Beam trawlers | | | | | | |
| | Demersal trawlers and/or demersal seiners | | | | | | |
| | Pelagic trawlers | | | | | | |
| | Purse seiners | | | | | | |
| | Dredgers | | | | | | |
| | Vessel using other active gears | | | | | | |
| | Vessels using Polyvalent 'active' gears only | | | | | | |

| Active Vessels | | Length classes (LOA) [1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0-< 10 m<br>0-< 6 m | 10-< 12 m<br>6-< 12 m | 12-< 18 m | 18-< 24 m | 24-< 40 m | 40 m or larger |
| **Using 'Passive' gears** | 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 | | | | | | |
| **Using Polyvalent gears** | Vessels using active and passive gears | | | | | | |
| Inactive vessels | | | | | | | |

[1] For vessels less than 12 metres in the Mediterranean Sea and the Black sea, the length categories are 0-< 6, 6-< 12 metres. For all other regions, the length categories are defined as 0-< 10, 10-< 12 metres.

[2] Vessels less than 12 metres using passive gears in the Mediterranean Sea and the Black Sea may be disaggregated by gear type. 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),<br>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),<br>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),<br>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 |
|---|---|---|
| **Income** (*) | Gross sales per species | Euro |
| | Other income | Euro |

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

*Table 8*

**Environmental variables for the aquaculture sector**

| Variable | Specification | Unit |
|---|---|---|
| Medicines or treatments administered (1) | By type | Gram |
| Mortalities (2) | | Per cent |

(1) Extrapolated from data recorded under Annex I, point 8(b), of Regulation (EC) No 852/2004 of the European Parliament and of the Council (OJ L 139, 30.4.2004, p. 1).
(2) Extrapolated as a percentage of national production from data recorded under Council Directive 2006/88/EC (OJ L 328, 24.11.2006, p. 14), Article 8, Paragraph 1(b).

*Table 9*

**Segmentation to be applied for the collection of aquaculture data** (1)

| | Fish farming techniques (2) | | | | | | Poly-culture | Hatch-eries and nurser-ies (3) | Shellfish farming techniques | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ponds | Tanks and race-ways | Enclo-sures and pens (6) | Recir-culation sys-tems (5) | Other meth-ods | Cages (7) | All methods | | Off-bottom | | On-bot-tom (4) | Other |
| | | | | | | | | | Rafts | Long line | | |
| Salmon | | | | | | | | | | | | |
| Trout | | | | | | | | | | | | |
| Sea bass & Sea bream | | | | | | | | | | | | |
| Carp | | | | | | | | | | | | |
| Tuna | | | | | | | | | | | | |
| Eel | | | | | | | | | | | | |
| Sturgeon (Eggs for human consumption) | | | | | | | | | | | | |
| Other fresh water fish | | | | | | | | | | | | |
| Other marine fish | | | | | | | | | | | | |
| Mussel | | | | | | | | | | | | |

| | Fish farming techniques (2) | | | | | | Poly-culture | Hatch-eries and nurser-ies (3) | Shellfish farming techniques | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ponds | Tanks and race-ways | Enclo-sures and pens (6) | Recir-culation sys-tems (5) | Other meth-ods | Cages (7) | All methods | | Off-bottom | | On-bot-tom (4) | Other |
| | | | | | | | | | Rafts | Long line | | |
| Oyster | | | | | | | | | | | | |
| Clam | | | | | | | | | | | | |
| Crustaceans | | | | | | | | | | | | |
| Other molluscs | | | | | | | | | | | | |
| Multispecies | | | | | | | | | | | | |
| Seaweeds | | | | | | | | | | | | |
| Other aquatic organisms | | | | | | | | | | | | |

(1) For definitions of farming techniques, see Regulation (EC) No 762/2008.
(2) Enterprises shall be segmented according to their main farming technique.
(3) 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)
(4) 'On-bottom' techniques cover shellfish farming in inter-tidal areas (directly on the ground or surelevated)
(5) Recirculation systems means systems where the water is reused after some form of treatment (e.g. filtering).
(6) 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).
(7) 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<br>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 | IIId | 3rd Quarter | Herring |

| Name of the survey | Acronym | Area | Period | Main targeted species |
|---|---|---|---|---|
| Sprat Acoustic Survey | SPRAS | IIId | May | Sprat and herring |
| Rügen Herring Larvae Survey | RHLS | IIId | March-June | Herring |
| North Sea and Eastern Arctic (ICES areas I and II) | | | | |
| International Bottom Trawl Survey | IBTS Q1<br>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,VIId | 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,VIId | 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 survey Aran Grounds | UWTV (FU 17) | VIIb | June | Nephrops |
| Nephrops UWTV survey 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 | | |
| **Income** | Turnover | Euro |
| | Other income | Euro |
| **Personnel costs** | Personnel costs | Euro |
| | Value of unpaid labour | Euro |
| | Payment for external agency workers (optional) | Euro |
| **Energy costs** | Energy costs | Euro |
| **Raw material costs** | Purchase of fish and other raw material for production | Euro |

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