Ministry of Agriculture, Forestry and Food of the Republic of Slovenia
and
Fisheries Research Institute of Slovenia

Slovenia Annual Report for data collection in the fisheries and aquaculture sectors
2022
Version 4

Ljubljana, 22 June 2023

European Union   European Maritime and Fisheries Fund   Republic of Slovenia

CONTENTS

European Maritime and Fisheries Fund

Legal Basis:

- ***Regulation (EU) 2017/1004 of the European Parliament and of the Council of 17 May 2017 on the establishment of a Union framework for the collection, management and use of data in the fisheries sector and support for scientific advice regarding the common fisheries policy and repealing Council Regulation (EC) No 199/2008 (recast)***

- ***Commission Delegated Decision (EU) 2021/1167 of 27 April 2021 establishing the multiannual Union programme for the collection and management of biological, environmental, technical and socioeconomic data in the fisheries and aquaculture sectors from 2022***

- ***Commission Implementing Decision (EU) 2021/1168 of 27 April 2021establishing the list of mandatory research surveys at sea and thresholds as part of the multiannual Union programme for the collection and management of data in the fisheries and aquaculture sectors from 2022***

- ***Commission Implementing Decision (EU) 2022/39 of 12 January 2022 laying down rules on the format and timetables for the submission of national work plans and annual reports for data collection in the fisheries and aquaculture sectors, and repealing Implementing Decisions (EU) 2016/1701 and (EU) 2018/1283***

European Maritime and Fisheries Fund

European Union

Data collection framework at national level

General comment: Use this text box to describe how data collection is organised in your Member State (institutions involved, contact information) and in which regional coordination groups (RCG) your Member State participates.

The Slovenian Work Plan for data collection in the fisheries and aquaculture sectors 2022-2024 is based on the Commission Delegated Decision (EU) 2021/1167 of 27 April 2021 establishing the multiannual Union programme for the collection and management of biological, environmental, technical and socioeconomic data in the fisheries and aquaculture sectors from 2022 and Commission Implementing Decision (EU) 2021/1168 of 27 April 2021 establishing the list of mandatory research surveys at sea and thresholds as part of the multiannual Union programme for the collection and management of data in the fisheries and aquaculture sectors from 2022.

Compared to the years before there have not been major methodological changes.

1. Ministry of Agriculture, Forestry and Food

Dunajska cesta 22
1000 Ljubljana

Phone: +386 1 478 90 00
gp.mkgp@gov.si

The Ministry of Agriculture, Forestry and Food is the authority responsible for the implementation of this Programme, which is going to be conducted in partnership with the Fisheries Research Institute of Slovenia and with the cooperation of the Statistical Office of the Republic of Slovenia and other private institutions to which parts of the implementation will be outsourced.

2. Fisheries Research Institute (FRIS):

Fisheries Research Institute of Slovenia
Sp. Gameljne 61 a
1211 Ljubljana – Šmartno, Slovenia

Phone: +386 1 244 34 00
E-mail: info@zzrs.si
Web page: http://www.zzrs.si

The Fisheries Reaserch Institute of Slovenia covers the collection of the biological data and the collection of the economic data. FRIS is responsible for the precision levels and for the calculation of the indicators in the module related to the measurement of the impacts of fisheries on the ecosystem.

Fisheries Research Institute of Slovenia is a partner of the Ministry of Agriculture, Forestry and Food the field of implementation of Slovenian Programme 2022-2027. The relation of the Ministry and the Fishery Research Institute is in the form of contract.

3. Statistical Office of the Republic of Slovenia (SORS)

Statistical Office of the Republic of Slovenia
Litostrojska 54
p.p. 3570
1000 Ljubljana, Slovenia

Phone: +386 1 241 64 00
E-mail: gp.surs@gov.si
Web page: www.stat.si

The Statistical Office of the Republic of Slovenia is responsible for consultations within the field of general methodological issues in the field of the fisheries statistics.

4. National corespondent

Tim Berginc

Adress:
Ministry of Agriculture, Forestry and Food
Dunajska cesta 22
1000 Ljubljana

tim.berginc@gov.si
Phone: +386 1 478 9323

Provide a link to the national data collection website, if there is one.

http://www.ribiski-sklad.si/Izvajanje_skupne_ribiske_politike/Zbiranje_podatkov/

(max. 1000 words)

Text Box 1a: Test studies description

General comment: This text box fulfils Chapter II, section 1.2 of the EU MAP Delegated Decision annex.

1. Aim of the test study
NA. No test studies planned.2. Duration of the test study
NA. No test studies planned.
3. Methodology and expected outcomes of the test study
NA. No test studies planned.
(max 900 words per study)

NA. No test studies planned.

(max 900 words per study)

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Text Box 1b: Other data collection activities

General comment: Use this text box to provide information on other data collection activities that relate to your EMFAF operational programme and need to be included in the work plan and the annual report. Describe activities that are funded by the DCF but fulfil objectives under other EMFAF priorities, like marine knowledge, or activities funded by the DCF, but without a direct link to the EU MAP specific requirements or WP template tables, like freshwater fisheries. You can also include one-off specific studies for a particular end-user need that do not enter the regular data collection.

1. Aim of the data collection activity

According to Article 14 (1) (f) of Regulation (EU) of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund and amending Regulation (EU) 2017/1004 and in accordance with Directive 2008/56/EC, in accordance with Directive 2008/56/EC. There will be done measures to reduce the burden on the marine environment from waste in relation to Marine litter D10, a measure to reduce the pressure in the state of benthic habitat types due to marine fisheries in conjunction with descriptor D1, a measure to reduce the pressure on benthic habitat types in coastal marine waters due to urbanization in conjunction with descriptor D1 to D6, In addition, co-financing activities to improve the management of protected areas, including NATURA 2000 sites, will be co-financed. Content programs are currently still subject to coordination with other bodies, so the presented content is not final.

2. Duration of the data collection activity

Content programs are currently still subject to coordination with other bodies, so the duration is not decided jet.

3. Methodology and expected outcomes of the data collection activity

Content programs are currently still subject to coordination with other bodies, so the methodology and expected outcomes of the data collection activity decided jet.

(max 900 words per activity)

Brief description of the results (including deviations from the plan and justifications as to why if this was the case).

Until the end of 2022 three operations have been completed, namely „Monitoring of species diversity and abundance of non-native species in the Slovenian sea", „Assessment of the status, evaluation of the environmental impact, and an overview of possible measures for controlling the population of the non-native species warty comb jelly (Mnemiopsis leidyi) in the Slovenian sea" and „Monitoring of marine habitat types Nature 2000 in the Slovenian sea 2020-2022". In addition, the operation „Monitoring the species diversity and abundance of non-native species in the Slovenian sea in the period 2021-2023", as a measure for the prevention, control and management of invasive non-native species, is under implementation and will continue to collect data on the presence of non-native species in the Slovenian Sea and to monitor their spread and impacts on native species, including impacts on fisheries resources and on mariculture, thereby contributing to the conservation and enhancement of biodiversity and ecosystem services. This will build on the already completed project Monitoring the species diversity and abundance of non-native species in the

Slovenian sea in the period 2018-2021, with new sampling methods and adapted sampling sites based on findings from existing monitoring.

Monitoring of dolphins in Slovenian sea for the period 2021-2022, is still underway.

Upgrading the knowledge of biotic and abiotic characteristics and scope of benthic habitat types Circalitoral coarse sediments (MC3), Circalitoral mixed sediments (MC4) and Circalitoral sands (MC5)) is still underway.

Achievement of the original expected outcomes of the study and justification if this was not the case.

Incorporation of study results into regular sampling by the Member State.

It helped with the coordination of work.

(max. 900 words per study)

SECTION 2: BIOLOGICAL DATA

Text Box 2.1: List of required species/stocks

General comment: This text box fulfils Article 5(2)(a), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 2.1(a) of the EU MAP Delegated Decision annex. This text box applies to the annual report and complements Table 2.1.

Deviations from the work plan

List the deviations (if any) in the achieved data collection (lengths only) compared to what was planned.

The general reasons for deviations from the work plan in terms of planned vs. achieved data collection should be summarised in this section, while detailed comments on deviations on particular species/stocks should be included in the 'AR comments' column in Table 2.1.

Actions to avoid deviations

Describe the actions that will be considered/have been taken to avoid deviations in the future and when these actions are expected to produce an effect. If there are no deviations, then this section is not applicable.

(One text box of max. 1 000 words per region/RFMO/RFO/IO)

Text Box 2.2: Planning of sampling for biological variables

General comment: This text box fulfils Article 5(2)(a), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 2.1(a) of the EU MAP Delegated Decision annex. This text box applies to the annual report and complements Table 2.2.

Deviations from the work plan

List the deviations (if any) in the achieved collection of biological data (other than lengths), compared to what was planned.

The general reasons for deviations from the work plan in terms of planned vs. achieved data collection should be summarised in this section, while detailed comments on deviations on particular species/stocks should be included in the 'AR comments' column in Table 2.2.

The adopted WP was poorly prepared. For this reason, we added the stocks we actually sampled to the AR. Actions to avoid deviations.

Describe the actions that will be considered/have been taken to avoid deviations in the future and when these actions are expected to produce an effect. If there are no deviations, then this section is not applicable.

In the new WP, the discrepancy will be corrected by entering in Table 2.2 the stocks for which data collection is foreseen.

(One text box of max. 1 000 words per region/RFMO/RFO/IO)

Text Box 2.3: Diadromous species data collection in freshwater

General comment: This text box fulfils Article 5(2)(a), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 2.1(b) and point 2.3 of the EU MAP Delegated Decision annex. Use this text box to give an overview of the methodology used to collect data from freshwater and inland commercial and recreational fisheries for salmon, sea trout and eel. Also include overview of data to be collected from research surveys on salmon, sea trout and eel in freshwater, and on eel in any relevant habitat including coastal waters.

Method selected for collecting data.

Anadromous and catadromous species data collection in fresh water was not be performed due to reasons described in WP.

Describe briefly the method for collecting the variables presented in Table 2.3. Detailed descriptions are to be included in Annex 1.1. If variables are not directly collected but estimated the method of estimation should be described here.

Anadromous and catadromous species data collection in fresh water was not be performed due to reasons described in WP.

(max 250 words per species and area)

Deviations from the work plan

List the deviations (if any) in the achieved data collection, compared to what was planned in the work plan and explain the reasons for the deviations.

NA

Action to avoid deviations

Describe the actions that will be considered/have been taken to avoid the deviations in the future and when these actions are expected to produce results.

NA

(max 900 words per region)

Text Box 2.4: Recreational Fisheries

General comment: This text box fulfils Article 5(2)(a), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 2.2 of the EU MAP Delegated Decision annex. Use this text box to give an overview of the methodology used to collect data on marine and freshwater recreational catches. For freshwater diadromous species, use Table and Text Box 2.3.

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Description of the sampling scheme/survey according to Table 2.4.

The target population and the elements of this target population accessibility, need to be defined and described in this section. In the case of Recreational Fisheries, the target population could be whole population of resident anglers, charter boats etc. This will permit to evaluate if all sectors contributing to the total catch, are included in the survey.

In 2008 Slovenia adopted the rule (Official Gazette of RS, no. 64/08 from 27. 6. 2008 – Rules on leisure sea Fishing) where every non-commercial fisherman (except the ones fishing from the shore) has to report the retained catch and effort separated by species.

Since 2017 a statistical methodology for etimating catch data from recreational fisheries was developed in cooperation between Statistical Office of the Republic of Slovenia and Ministry of Agriculture, Forestry and Food. Sources for the recrational fisheries data are 1. Data received on the basis of annual licenses for sport fishing; 2. Data received on the basis of an annual licenses for the recreational fishing with spear gun; 3. Data received on the basis of daily and weekly licenses for recreational fisheries; 4. Data received from the organised sport competitions. All the data is collected and after analized.

Data on recreational fisheries at sea are composed of the following data sources:
•   data received on the basis of annual licenses for sport fishing;
•   data received on the basis of an annual licenses for the recreational fishing with spear gun;
•   data received on the basis of daily and weekly licenses for recreational fisheries;
•   data received from the organized sport competitions;

The Republic of Slovenia conferred a public mandate to the Sea Sport Fishing Federation of Slovenia for issuing the licenses and permits for sport fisheries at sea. Sea Sport Fishing Federation of Slovenia is also responsible for collecting data on sport fisheries at sea and dissemination of the data to the MAFF.

Fishermen which are holders of the annual sport fishing licenses are after the end of the season (31. December) obliged to return the completed fishing permits with recorded dates of the fishing days, fish species caught, number of fish, weight of fish and fishing time, to the Sea Sport Fishing Federation of Slovenia and they later report the data to MAFF.

(max 900 words per region)

Deviations from the work plan
List the deviations (if any) in the achieved data collection, compared to what was planned in the work plan and explain the reasons for the deviations.
NA
Action to avoid deviations
Describe the actions that will be considered/have been taken to avoid the deviations in the future and when these actions are expected to produce results.
NA

(max 900 words per region)

Text Box 2.5: Sampling plan description for biological data

General Comment: This text box fulfils Article 5(2)(a) and (b), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter 2 point 2.1(a) of the EU MAP Delegated Decision annex. This text box complements Table 2.5.

This text box is complementary to information on the sampling schemes provided in the quality document (Annex 1.1). It serves to highlight additional information on sampling schemes and sampling frames that the

From 2020 Slovenia is no longer sampling landings of *Engraulis encrasicolus* and *Sardina pilchardus*, since

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the fishery targeting small pelagics is not operating.

Slovenia will not continue with samplings of *Engraulis encrasicolus* and *Sardina pilchardus* due to inactivity of the PS fleet in last two years and very low activity in last seven years. There are also no other species with average landings above 200 tonnes.

Thresholds in accordance with the Commission delegated decision (EU) 2021/1167 of 27 April 2021, applies.

(One text box (max. 1 000 words) per region/RFMO/RFO/IO)

Sampling scheme name (or identifier):

Deviations from the work plan
The adopted WP was poorly prepared and appropriate schemes/frames was not listed. For this reason, we added the schemes/frames that we actually perform samplings on it.
Sampling of discard and incidental by-catch (BCD), including all retained and discarded organisms continues. Sampling is ongoing at three metiers (GNS_DEF_>=16_0_0, GTR_DEF_>=16_0_0, and OTB_DEF_>=40_0_0).

Actions to avoid deviations
Describe the actions that will be considered/have been taken to avoid deviations in the future and when these actions are expected to produce an effect. If there are no deviations, then this section is not applicable.
In the new WP, the discrepancy will be corrected by entering in Table 2.5 appropriate schemes/frames.
(One text box of max. 1 000 words per region/RFMO/RFO/IO)

Text Box 2.6: Research surveys at sea - MEDITS

General Comment: This text box fulfils Article 5(1)(b), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapters I and II of the EU MAP Implementing Decision annex. It is intended to specify which research surveys at sea, as set out in Table 2 of the EU MAP Implementing Decision annex will be carried out. Member States shall specify whether the research survey is included in Table 2 of the EU MAP Implementing Decision annex or whether it is an additional survey.

(Use one text box per survey)
Name of the research survey
MEDITS
1. Objectives of the survey
Objective of MEDITS is to produce biological data on the demersal resources in the Mediterranean Sea.
      For mandatory surveys: list the full list of target species/ecosystem components set by the coordinating group (as opposed to the target species provided in Table 1 of the EU MAP Implementing Decision) and the international, and additional national objectives.
MEDITS target species with GSA 17 relevant Table 1 indication:
Sepia officinalis (Table 1), Illex coindetii (Table 1), Todarodes sagittatus (Table 1), Loligo vulgaris (Table 1), Eledone cirrhosa (Table 1), Eledone moschata (Table 1), Octopus vulgaris (Table 1), Squilla mantis (Table 1), Aristaeomorpha foliacea, Aristeus antennatus, Parapenaeus longirostris (Table 1), Penaeus kerathurus, Nephrops norvegicus (Table 1), Palinurus elephas, Heptranchias perlo (Table 1), Hexanchus griseus (Table 1), Galeus melastomus (Table 1), Scyliorhinus canicula (Table 1), Scyliorhinus stellaris (Table 1),

Galeorhinus galeus (Table 1), Mustelus asterias (Table 1), Mustelus mustelus (Table 1), Mustelus punctulatus (Table 1), Dalatias licha (Table 1), Etmopterus spinax (Table 1), Oxynotus centrina (Table 1), Centrophorus granulosus (Table 1), Squalus acanthias (Table 1), Squalus blainville (Table 1), Squatina aculeata (Table 1), Squatina oculata, Squatina squatina, Torpedo marmorata, Glaucostegus cemiculus, Rhinobatos rhinobatos, Dipturus batis (Table 1), Dipturus oxyrinchus (Table 1), Leucoraja circularis (Table 1), Leucoraja melitensis (Table 1), Raja asterias, Raja clavata, Raja miraletus (Table 1), Raja polystigma (Table 1), Raja undulata (Table 1), Rostroraja alba (Table 1), Myliobatis aquila, Sardina pilchardus (Table 1), Engraulis encrasicolus (Table 1), Micromesistius poutassou, Trisopterus minutus (Table 1), Phycis blennoides, Merluccius merluccius (Table 1), Lophius budegassa, Lophius piscatorius, Zeus faber, Helicolenus dactylopterus dactylopterus, Chelidonichthys cuculus, Chelidonichthys lucerna, Eutrigla gurnardus, Trigloporus lastoviza, Polyprion americanus, Epinephelus aeneus, Epinephelus caninus, Epinephelus costae, Epinephelus marginatus, Trachurus mediterraneus (Table 1), Trachurus trachurus (Table 1), Boops boops (Table 1), Diplodus annularis, Diplodus puntazzo, Diplodus sargus, Diplodus vulgaris, Lithognathus mormyrus, Pagellus acarne, Pagellus bogaraveo, Pagellus erythrinus (Table 1), Pagrus pagrus, Spicara flexuosa, Spicara maena, Spicara smaris (Table 1), Mullus barbatus (Table 1), Mullus surmuletus, Scomber colias, Scomber scombrus, Citharus linguatula, Lepidorhombus boscii, Scophthalmus maximus, Solea solea (Table 1)

> For non-mandatory surveys: describe the purpose of the survey including sampling activities and target species/ecosystem components, the end user and how the data are used.

2. Description of the survey design and methods used in the survey for each type of data collection as listed in Table 2.6 for this specific survey.

> If documentation of the survey design and methods used is available online in English, you can refer to that documentation.
> https://www.sibm.it/MEDITS%202011/principaledownload.htm

3. For internationally coordinated surveys, describe the participating Member States/vessels.

EU Mediterranean countries

4. Where applicable, provide more details on the type of participation and/or threshold agreement applied.

> For types of participation other than 'Financial', describe the type of participation, and/or the background of the type of participation in more detail.

(max 450 words per survey)

5. For internationally coordinated surveys, provide a link to the latest meeting report of the coordination group.
Provide a link to the meeting report from the body coordinating the survey (ICES, MEDITS coordination group, MEDIAS coordination group, etc.). For surveys that are not internationally coordinated, refer to any status report (e.g. Cruise report).
https://www.sibm.it/MEDITS%202011/principalereports.htm
6. List the main use of the results of the survey (e.g. indices, abundance estimates, environmental indicators). Specify in which context the results are used (on a routine basis), both in international and national context.
If presenting maps of the achieved research survey stations is necessary, provide them as an annex. Refer clearly to the annex and map numbers.
Data used at regional level for fish stock assessment.
7. Extended comments
Extended AR comments can be placed under this section.

(max. 450 words per survey)

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Text Box 2.6: Research surveys at sea – OTBSLO

General comment: This text box fulfils Article 5 (1)(b), Article 6 (3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapters I and II of the EU MAP Implementing Decision. It is intended to specify which research surveys at sea, as set out in Table 2 of the EU MAP Implementing Decision will be carried out. Member States shall specify whether the research survey is included in Table 2 of the EU-MAP Implementing Decision or whether it is an additional survey.

(Use one text box per survey)
Name of the research survey
OTBSLO
1. Objectives of the survey
Objective of OTBSLO is to produce biological data on the demersal resources in Slovenian Territorial Sea.

> For mandatory surveys: list the full list of target species/ecosystem components set by the coordinating group (as opposed to the target species provided in Table 1 of the EU MAP Implementing Decision) and the international, and additional national objectives.

> For non-mandatory surveys: describe the purpose of the survey including sampling activities and target species/ecosystem components, the end user and how the data are used.

The purpose of the survey is the collection of biological data of the demersal resources throughout the year. Target species are all fishes, cephalopods and commercial crustaceans.
2. Description of the survey design and methods used in the survey for each type of data collection as listed in Table 2.6 for this specific survey.

> If documentation of the survey design and methods used is available online in English, you can refer to that documentation.

Sampling design is following MEDITS sampling design:
 https://www.sibm.it/MEDITS%202011/principaledownload.htm
Deviations from the MEDITS sampling design are: a commercial bottom trawl is used, the number of sampling stations is three, and sampling takes place four times a year:
 https://www.zzrs.si/en/uploads/QA_and_QC_documentation_for_biological_data.pdf

3. For internationally coordinated surveys, describe the participating Member States/vessels.

4. Where applicable, provide more details on the type of participation and/or threshold agreement applied.

> For types of participation other than 'Financial', describe the type of participation, and/or the background of the type of participation in more detail.

(max. 450 words per survey)

5. For internationally coordinated surveys, provide a link to the latest meeting report of the coordination group.
Provide a link to the meeting report from the body coordinating the survey (ICES, MEDITS coordination group, MEDIAS coordination group, etc.). For surveys that are not internationally coordinated, refer to any status report (e.g. Cruise report).

European Maritime and Fisheries Fund

NA

6. List the main use of the results of the survey (e.g. indices, abundance estimates, environmental indicators). Specify in which context the results are used (on a routine basis), both in international and national context.

If presenting maps of the achieved research survey stations is necessary, provide them as an annex. Refer clearly to the annex and map numbers.

Biological data analysis: abundance indexes, length weight relationship, spawning season, sexual maturity etc.

7. Extended comments

Extended AR comments can be placed under this section.

(max. 450 words per survey)

Text Box 2.6: Research surveys at sea – OTB_VOL

General comment: This text box fulfils Article 5 (1)(b), Article 6 (3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapters I and II of the EU MAP Implementing Decision. It is intended to specify which research surveys at sea, as set out in Table 2 of the EU MAP Implementing Decision will be carried out. Member States shall specify whether the research survey is included in Table 2 of the EU-MAP Implementing Decision or whether it is an additional survey.

(Use one text box per survey)

Name of the research survey

OTB_VOL

1. Objectives of the survey

The objective of OTB_VOL is a structure of catches by species.

> For mandatory surveys: list the full list of target species/ecosystem components set by the coordinating group (as opposed to the target species provided in Table 1 of the EU MAP Implementing Decision) and the international, and additional national objectives.

> For non-mandatory surveys: describe the purpose of the survey including sampling activities and target species/ecosystem components, the end user and how the data are used.

The goal of the survey is to find out the share of cephalopods compared to other species in the catches od OTB type "volantina". The catch structure is also described by the following parameters: target species and by-catch; retained and discarded quantities; size structure and proportion of juveniles.

2. Description of the survey design and methods used in the survey for each type of data collection as listed in Table 2.6 for this specific survey.

> If documentation of the survey design and methods used is available online in English, you can refer to that documentation.

https://www.zzrs.si/en/uploads/QA_and_QC_documentation_for_biological_data.pdf

3. For internationally coordinated surveys, describe the participating Member States/vessels.

4. Where applicable, provide more details on the type of participation and/or threshold agreement applied.

> For types of participation other than 'Financial', describe the type of participation, and/or the background of the type of participation in more detail.

European Maritime and Fisheries Fund

(max. 450 words per survey)

5. For internationally coordinated surveys, provide a link to the latest meeting report of the coordination group.

Provide a link to the meeting report from the body coordinating the survey (ICES, MEDITS coordination group, MEDIAS coordination group, etc.). For surveys that are not internationally coordinated, refer to any status report (e.g. Cruise report).

NA

6. List the main use of the results of the survey (e.g. indices, abundance estimates, environmental indicators). Specify in which context the results are used (on a routine basis), both in international and national context.

If presenting maps of the achieved research survey stations is necessary, provide them as an annex. Refer clearly to the annex and map numbers.

Catch analysis: retained and discarded quantities by species, length frequencies, share of cephalopods compared to other species.

7. Extended comments

Extended AR comments can be placed under this section.

(max. 450 words per survey)

Text Box 2.6: Research surveys at sea – SOLEMON

General comment: This text box fulfils Article 5 (1)(b), Article 6 (3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapters I and II of the EU MAP Implementing Decision. It is intended to specify which research surveys at sea, as set out in Table 2 of the EU MAP Implementing Decision will be carried out. Member States shall specify whether the research survey is included in Table 2 of the EU-MAP Implementing Decision or whether it is an additional survey.

(Use one text box per survey)

Name of the research survey

SOLEMON

1. Objectives of the survey

Objective of SOLEMON is to produce distribution, relative abundance and biological data on benthic commercial marine species in GSA 17 for use in stock assessment and fishery management.

> For mandatory surveys: list the full list of target species/ecosystem components set by the coordinating group (as opposed to the target species provided in Table 1 of the EU MAP Implementing Decision) and the international, and additional national objectives.

The primary target species is the common sole (*Solea solea*). Further target species include spottail mantis squillid (*Squilla mantis*), common cuttlefish (*Sepia officinalis*), great Mediterranean scallop (*Pecten jacobaeus*), queen scallop (*Aequipecten opercularis*), turbot (*Scophthalmus maximus*), brill (*Scophthalmus rhombus*), European hake (*Merluccius merluccius*), red mullet (*Mullus barbatus*), skates (Rajdae) and the caramote prawn (*Penaeus kerathurus*).

> For non-mandatory surveys: describe the purpose of the survey including sampling activities and target species/ecosystem components, the end user and how the data are used.

2. Description of the survey design and methods used in the survey for each type of data collection as listed in Table 2.6 for this specific survey.

> If documentation of the survey design and methods used is available online in English, you can refer

to that documentation.

SOLEMON manual available at: https://dcf-italia.cnr.it/#/documenti/linee-guida

3. For internationally coordinated surveys, describe the participating Member States/vessels.

EU GSA 17 countries

4. Where applicable, provide more details on the type of participation and/or threshold agreement applied.

For types of participation other than 'Financial', describe the type of participation, and/or the background of the type of participation in more detail.

(max. 450 words per survey)

5. For internationally coordinated surveys, provide a link to the latest meeting report of the coordination group.

Provide a link to the meeting report from the body coordinating the survey (ICES, MEDITS coordination group, MEDIAS coordination group, etc.). For surveys that are not internationally coordinated, refer to any status report (e.g. Cruise report).

NA

6. List the main use of the results of the survey (e.g. indices, abundance estimates, environmental indicators). Specify in which context the results are used (on a routine basis), both in international and national context.

If presenting maps of the achieved research survey stations is necessary, provide them as an annex. Refer clearly to the annex and map numbers.

Data used at regional level for fish stock assessment.

7. Extended comments

Extended AR comments can be placed under this section.

(max. 450 words per survey)

Text Box 2.6: Research surveys at sea – MEDIAS

General comment: This text box fulfils Article 5 (1)(b), Article 6 (3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapters I and II of the EU MAP Implementing Decision. It is intended to specify which research surveys at sea, as set out in Table 2 of the EU MAP Implementing Decision will be carried out. Member States shall specify whether the research survey is included in Table 2 of the EU-MAP Implementing Decision or whether it is an additional survey.

(Use one text box per survey)

Name of the research survey

MEDIAS

1. Objectives of the survey

Objective of MEDIAS is to produce biological data on the small pelagic resources in the Mediterranean Sea.

For mandatory surveys: list the full list of target species/ecosystem components set by the coordinating group (as opposed to the target species provided in Table 1 of the EU MAP Implementing Decision) and the international, and additional national objectives.

Small pelagic fish, mainly sardine (*Sardina pilchardus*) and anchovy (*Engraulis encrasicolus*).

For non-mandatory surveys: describe the purpose of the survey including sampling activities and target species/ecosystem components, the end user and how the data are used.

2. Description of the survey design and methods used in the survey for each type of data collection as listed in Table 2.6 for this specific survey.

If documentation of the survey design and methods used is available online in English, you can refer to that documentation.

Sampling design is in accordance with MEDIAS manual available at:
http://www.medias-project.eu/medias/website/handbooks-menu.html

3. For internationally coordinated surveys, describe the participating Member States/vessels.

EU Mediterranean countries

4. Where applicable, provide more details on the type of participation and/or threshold agreement applied.

For types of participation other than 'Financial', describe the type of participation, and/or the background of the type of participation in more detail.

(max. 450 words per survey)

5. For internationally coordinated surveys, provide a link to the latest meeting report of the coordination group.

Provide a link to the meeting report from the body coordinating the survey (ICES, MEDITS coordination group, MEDIAS coordination group, etc.). For surveys that are not internationally coordinated, refer to any status report (e.g. Cruise report).

http://www.medias-project.eu/medias/website/meetingrep/

6. List the main use of the results of the survey (e.g. indices, abundance estimates, environmental indicators). Specify in which context the results are used (on a routine basis), both in international and national context.

If presenting maps of the achieved research survey stations is necessary, provide them as an annex. Refer clearly to the annex and map numbers.

Data used at regional level for fish stock assessment.

7. Extended comments

Extended AR comments can be placed under this section.

(max. 450 words per survey)

SECTION 3: FISHING ACTIVITY DATA

Text Box 3.1: Fishing activity variables data collection strategy

General comment: This text box fulfils Article 5 (2)(c), Article 6 (3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 3.1 of the EU MAP Delegated Decision annex. It is intended to describe the method used to derive estimates on representative samples where data are not to be recorded under the Control Regulation (EC) No 1224/2009 or where data collected under Regulation (EC) No 1224/2009 are not at the right aggregation level for the intended scientific use. Text Box 3.1 should be filled only in case complementary data collection is planned

No complementary data collection is planned.

(max. 900 words)

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Text Box 3.2: Fishing activity variables data collection strategy (for inland eel commercial fisheries)

General comment: This text box fulfils Article 5(2)(c), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter II point 3.2 of the EU MAP Delegated Decision annex. It is intended to describe the methods and data sources used to estimate fishing capacity, effort and landings data.

Describe data collection of inland eel commercial fisheries landings, effort and capacity. List or describe, for instance, the number of fishing entities, fishing methods, and the associated units used.

In Slovenia eel (*Anguilla anguilla*) is protected species by the Decree on protected wild animal species, OJ 46/2004 and other amendments. With this Decree listed animals in Annex 1 are protected and habitats of animals listed in Annex 2 are also protected. There is no commercial fishing for eel in Slovenia.

(max. 900 words)

SECTION 4: IMPACT OF FISHERIES ON MARINE BIOLOGICAL RESOURCES

Text Box 4.2: Incidental catches of sensitive species

General Comment: This text box fulfils Article 5(2)(a) and (b), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004 and Chapter 2 point 4.1 of the EU-MAP Delegated Decision annex. This text box complements Table 2.5.

This text box is complementary to information on the sampling schemes provided in the quality document (Annex 1.1). It serves to highlight information on sampling schemes and sampling frames related to incidental catches of sensitive species.

Additional information on planning the observation of incidental catches of sensitive species (if already filled in in Annex 1.1, please indicate where it can be found):

All bycatches of vulnerable and protected species are recorded according to standard data collection procedures. Data that are collected include: identification of species, number, weight and length (when were possible) of individuals, gear specifications, location and timing of catches.

— *Has an assessment of the relative risk of bycatch for the different gear types/metiers taken place and been taken into account for the sampling design?*

We are sampling three most important fishing gears: GNS, GTR and OTB. We always processed 100% of catch and collect data of retained part of the catch and discarded part.

— *What are the gear types/metiers that present the highest risk of bycatch per species/taxa of PETS in a given region?*

Bottom trawlers represent the highest risk of baycatch in SVN teritorial waters.

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— *What methods are used to calculate the observation effort?*

In case of bottom trawlers we record the track (length) and duration of each haul, in case of set nets we record the track (length) of each net and it's soaking time.

— *Does the sampling design and protocol follow the recommendations from relevant expert groups? Provide appropriate references. If there are no relevant expert groups, the design and protocol have to be explained in the text.*

There are no such recommendations. Observers on board of fishing vessels aways process 100% of catch and collect data of retained part of the catch and discarded part.

Additional information on observer protocols (if already filled in in Annex 1.1, indicate where it can be found):

— *Does the on-board observer protocol contain a check for rare specimens in the catch at opening of the cod-end? If YES, is the observer instructed to indicate if the cod-end was NOT checked in a haul?*

The catch is always processed 100%. That include all species and specimens which they lift on board the vessel.

— *In gill nets and hook-and-line fisheries: does the on-board observer protocol instruct the observer to indicate how much of the hauling process has been observed for (large) incidental bycatches that slip out of the net?*

No.

— *In large catches: does the protocol instruct the observer to check for rare specimens during sorting of the catch (i.e. at the conveyor belt)? Is the observer instructed to indicate what percentage of the sorting or hauling process has been checked at 'haul level'?*

There is no large catches in Slovenian fisheries.

Additional information on sampling schemes:

You may add specific contextual information related to a region and the implementation year(s), for instance highlighting new developments not yet detailed in the quality document, regional adaptation and/or perspectives for the future. Insert the information under the same sampling scheme identifier as in Table 2.5.

Additional description on sampling frames

You may add a complementary description to what includes the 'Sampling frame description' column of Table 2.5. Insert the information under the same identifier and name as in the columns 'Sampling frame identifier' and 'Sampling frame description' of Table 2.5, and in the same order (Sampling frame identifier + Sampling frame description).

(One text box (max. 1 000 words) per region/RFMO/RFO/IO)

Results

Provide additional information, if available, in this text box. For example, summary information on the

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number of individuals recorded as bycaught per species, gear group and monitoring method with information about the state of the animals (i.e. were they released alive, dead, or collected for sampling).

Deviations from the work plan

The Member State shall list the deviations (if any) in the achieved data collection compared to what was planned in the work plan and explain the reasons for the deviations.

Actions to avoid deviations

The Member State shall describe the actions that will be considered/have been taken to avoid deviations in the future and when these actions are expected to produce an effect. If there are no deviations, then this section is not applicable.

The following should have been written in WP:

Sampling scheme identifier: BCD

- Has an assessment of the relative risk of bycatch for the different gear types/metiers taken place and been taken into account for the sampling design?

The assessment of relative risk of bycatch for the different gear types/metiers is currently not possible because catches of PETS species is extremely rear.

- What are the gear types/metiers that present the highest risk of bycatch per species/taxa of PETS in a given region?

GNS_DEF_>=16_0_0, GTR_DEF_>=16_0_0, and OTB_DEF_>=40_0_0

- What methods are used to calculate the observation effort?

For GNS_DEF_>=16_0_0, GTR_DEF_>=16_0_0 the nominal effort is net length x fishing days, for OTB_DEF_>=40_0_0 is GT x fishing days.

- Does the sampling design and protocol follow the recommendations from relevant expert groups? Provide appropriate references. If there are no relevant expert groups, the design and protocol have to be explained in the text.

FAO. 2019. Monitoring the incidental catch of vulnerable species in Mediterranean and Black Sea fisheries: Methodology for data collection. FAO Fisheries and Aquaculture Technical Paper No. 640. Rome, FAO.

FAO. 2019. Monitoring discards in Mediterranean and Black Sea fisheries: Methodology for data collection. FAO Fisheries and Aquaculture Technical Paper No. 639. Rome.

Additional information on observer protocols (if already filled in in Annex 1.1, indicate where it can be found): https://www.zzrs.si/en/uploads/QA_and_QC_documentation_for_biological_data.pdf

- Does the on-board observer protocol contain a check for rare specimens in the catch at opening of the cod-end? If YES, is the observer instructed to indicate if the cod-end was NOT checked in a haul?

YES, observer is instructed to always check the cod-end.

- In gill nets and hook-and-line fisheries: does the on-board observer protocol instruct the observer to indicate how much of the hauling process has been observed for (large) incidental bycatches that slip out of the net?

YES

- In large catches: does the protocol instruct the observer to check for rare specimens during sorting of the catch (i.e. at the conveyor belt)? Is the observer instructed to indicate what percentage of the sorting or hauling process has been checked at "haul level"?

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YES

Additional information on sampling schemes

You may add specific contextual information related to a region and the implementation year(s), for instance highlighting new developments not yet detailed in the quality document, regional adaptation and/or perspectives for the future. Insert the information under the same sampling scheme identifier as in Table 2.5.

Additional description on sampling frames

You may add a complementary description to what includes the 'Sampling frame description' column of Table 2.5. Insert the information under the same identifier and name as in the columns 'Sampling frame identifier' and 'Sampling frame description' of Table 2.5, and in the same order (Sampling frame identifier + Sampling frame description).

(One text box of max. 1 000 words per region/RFMO/RFO/IO)

Text Box 4.3: Fisheries impact on marine habitats

General comment: This text box fulfils Article 5 paragraph 2(a) and 2(b), Article 6 paragraph 3(a), 3(b) and 3(c) of Regulation (EU) 2017/1004 and Chapter 2, section 4.2 of the EU MAP Delegated Decision annex. It contains information on additional studies on the fisheries impact on marine habitats.

1. Aim of the study

The aim of the study is to know what human activities effect marine habitats and what is the effect.

2. Duration of the study

Study has already started and it is planned to be completed till the end of 2023.

3. Methodology and expected outcomes of the study

Analysis of available sources which already exist about this topic in Slovenian sea and analysis of the factors which effect marine habitats. In this included description and cartographic presentation of human activities that effect seabed of the Slovenian sea, physical loss of land, acquisition coastal protection and flood protection, restructuring of the seabed morphology, excavation and disposal of mariculture material, transport infrastructure effect, waste management and disposal, infrastructure for tourism and leisure activities, physical disturbance, fishing and traffic effect. Analyse of the damage which as been done to the marine environment. It will be mapped where has been done which kind of human activities and analysed what are the reasons for that human activity in the certain area.
Study will show different activities effect the marine habitats what damage has been made and on which territories. This will show what damage has been done to the marine environment and what could be done to help to restore the marine environment and how to protect the marine environment in the future.

(max 900 words per study)

Brief description of the results (including deviations from the plan and justifications as to why if this was the case).

Study is still on going but there are some results already which activities effect the marine habitats what damage has been made and on which territories.

Achievement of the original expected outcomes and justification if this was not the case.

Follow-up to the activities (what are the next steps, how the results will be used).
Results will be used to make planes for preservation of habitats.

(max. 900 words per study)

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Text Box 5.2: Economic and social variables for fisheries data collection

General comment: This Text box fulfils Article 5(2)(d), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004, and Chapter II point 5 of the EU MAP Delegated Decision annex. It is intended to specify data to be collected under Tables 7, 8 and 9 of the EU MAP Delegated Decision annex.

1. Description of clustering

According to confidentiality, Slovenia will have to combine fleet segments. Slovenia will cluster segments of different lengths which are using similar gears.
The list of segments for which problems of confidentiality might arise:
  - Drift and/or fixed netters 12 -< 18 m
  - Demersal trawlers and/or demersal seiners 06 -< 12 m
  - Demersal trawlers and/or demersal seiners 12 -< 18 m
  - Vessel using pots and/or traps 00 -< 06 m
  - Vessel using pots and/or traps 06 -< 12 m
  - Vessel using pots and/or traps 12 -< 18 m
  - Vessels using hooks 00 -< 06 m
  - Vessels using hooks 06 -< 12 m
  - Vessels using hooks 12 -< 18 m
  - Vessels using polyvalent passive gears only 00 -< 06 m
  - Vessels using polyvalent passive gears only 06 -< 12 m
  - Vessels using polyvalent passive gears only 12 -< 18 m
  - Vessels using active and passive gears 00 -< 06 m
  - Vessels using active and passive gears 06 -< 12 m
  - Vessels using active and passive gears 12 -< 18 m
  - Purse seiners 06 -< 12m
  - Purse seiners 12 -< 18 m

The projected structure of clusters;

Cluster name "Drift and/or fixed netters 00 -< 06 m" will contain the following segments;
  - Vessel using pots and/or traps 00 -< 06 m
  - Drift and/or fixed netters 00 -< 06 m
  - Vessels using hooks 00 -< 06 m
  - Vessels using polyvalent passive gears only 00 -< 06 m
  - Vessels using active and passive gears 00 -< 06 m

Cluster name "Drift and/or fixed netters 06 -< 12 m" will contain the following segments;
  - Vessel using pots and/or traps 06 -< 12 m
  - Vessel using pots and/or traps 12 -< 18 m
  - Drift and/or fixed netters 06 -< 12 m
  - Drift and/or fixed netters 12 -< 18 m
  - Vessels using hooks 06 -< 12 m

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- Vessels using hooks 12 -< 18 m
- Vessels using polyvalent passive gears only 06 -< 12 m
- Vessels using polyvalent passive gears only 12 -< 18 m
- Vessels using active and passive gears 06 -< 12 m
- Vessels using active and passive gears 12 -< 18 m

Cluster name "Demersal trawlers and/or demersal seiners 12 -< 18 m" will contain the following segments;
- Demersal trawlers and/or demersal seiners 06 -< 12 m
- Demersal trawlers and/or demersal seiners 12 -< 18 m

Cluster name " Purse seiners 12 -< 18 m" will contain the following segments;
- Purse seiners 06 -< 12m
- Purse seiners 12 -< 18 m

Purse seiners segments are inactive from 2018 onwards, therefore this segments are NOT presented in table 5.1.

2. Description of activity indicator

No use of activity indicator is planned.
3. Deviation from the RCG ECON (ex. PGECON) definitions

No deviation recorded.

(max. 900 words)

Deviations from the work plan
No deviation recorded.
Actions to avoid deviations
No actions taken.

(max. 900 words)

SECTION 6: ECONOMIC AND SOCIAL DATA IN AQUACULTURE

Text Box 6.1: Economic and social variables for aquaculture data collection

General comment: This text box fulfils Article 5(2)(e), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004, and Chapter II point 6 of the EU MAP Delegated Decision annex. It is intended to specify data to be collected under Tables 10 and 11 of the EU MAP Delegated Decision annex.

1. Description of the threshold application

Slovenia plans to collect socioeconomic data in aquaculture as indicated in table 6.1, therefore no threshold application is planned.

2. Deviation from the RCG ECON (ex. PGECON) definitions

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No deviation recorded.

(max. 900 words)

Deviations from the work plan
No deviation recorded.

Actions to avoid deviations
No actions taken.
(max. 900 words)

SECTION 7: ECONOMIC AND SOCIAL DATA IN FISH PROCESSING

Text Box 7.1: Economic and social variables for fish processing data collection

General comment: This text box fulfils Article 5(2)(f), Article 6(3)(a), (b) and (c) of Regulation (EU) 2017/1004, and Chapter II point 7 of the EU MAP Delegated Decision annex.

1. The Member State should provide justification for complementary data collection for fish processing in addition to Eurostat data.

In the complementary data collection program for the Fisheries Processing Industry, Slovenia will collect data for companies not covered by EUROSTAT and SBS, ie. for small and micro companies and companies whose main industry is not fish processing, but these companies are extremely important for Slovenia.

2. Deviation from the RCG ECON (ex. PGECON) definitions

No deviation recorded.

(max. 900 words)

Deviations from the work plan
No deviation recorded.

Actions to avoid deviations
No actions taken.

(max. 900 words)

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The quality report fulfils Article 6(3)(d) of Regulation (EU) 2017/1004. This document is intended to specify data to be collected under Chapter II, point 2 of the EU MAP Delegated Decision annex: Biological data on exploited biological resources caught by Union commercial and recreational fisheries.

Use this document to state whether documentation in the data collection process (design, sampling implementation, data capture, data storage, sample storage and data processing) exists and identify where this documentation can be found. Provide short descriptions where indicated, even if the documentation can be found in English. Names of sampling schemes and strata shall be identical to those in Tables 2.2, 2.3, 2.4, 2.5, 2.6 and 4.1 of the WP/AR. For quality information on scientific surveys, use the survey acronym as a sampling scheme identifier. For mandatory surveys, refer to Table 1 of the EU MAP Implementing Decision annex, see also MasterCodeList 'Mandatory survey at sea'.

MS : SVN
Region: Mediterranean Sea and Black Sea
Sampling scheme identifier: MEDITS
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).* https://www.sibm.it/MEDITS%202011/principale%20project.htm
Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area. The target species are listed in manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm **Population sampled:** Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys. Demersal. **Stratification:** Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.* According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.

Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling implementation

Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.
NA

Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?

Fixed sampling sites.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ... According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm **Data capture documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox. According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm **Quality checks documentation:** Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box. According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. BIOS at the Fisheries Research Institute of Slovenia **International database:** Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. NA **Quality checks and data validation documentation:** Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box. Data quality is ensured by using sampling and data processing protocols of individual research surveys.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on

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quantities of sampled stored by species/stock, geographic sub-area and by year.

Sagitta otoliths of Mullus barbatus, Mullus surmuletus and Merluccius merluccius are dry stored.

Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data processing

Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.

Y

Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.

Y

Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?

N

Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?
Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

MS : SVN
Region: Mediterranean Sea and Black Sea
Sampling scheme identifier: MEDIAS
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*   http://www.medias-project.eu/medias/website/handbooks-menu.html
Description of the population

28/65

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Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area.

The target species are listed in manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys.

Pelagic.

Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*

According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.

According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.

According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.

According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.

Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.

Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.

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No deviation recorded.
Sampling implementation
Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available. NA
Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year? Fixed sampling sites.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ... According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html
Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html
Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. NA
International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. NA
Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box. Data quality is ensured by using sampling and data processing protocols of individual research surveys.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and   the location used for samples storage; how long the samples are stored; how

conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.

Sagitta otoliths of Engraulis encrasicolus and Sardina pilchardus are dry stored.

Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data processing

Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.
 Y

Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.
 Y

Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?
 N

Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?
 Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

Sampling scheme identifier: **SOLEMON**
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer

Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*

 SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Description of the population

Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area.
The target species are listed in manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being*

listed as auctions excluding all minor ports and no sampling during the week-ends. For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys.

Pelagic.

Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.

Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.

Y

European Union

EMFF

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.   **No deviation recorded.**
Sampling implementation
Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.   NA
Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?   Fixed sampling sites.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.   **No deviation recorded.**
Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...   According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017   **Data capture documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.   According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017   **Quality checks documentation:** Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box.   According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.   **No deviation recorded.**
Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.   Atris (Italy)
International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.   NA
Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.   Data quality is ensured by using sampling and data processing protocols of individual research surveys.
AR comment: Indicate any deviations or developments. Do not change the text already adopted

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in the work plan. **No deviation recorded.**
Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year. Sagitta otoliths of Solea solea are dry stored. Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. No deviation recorded.
Data processing
Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox. Y **Editing and imputation methods:** Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox. Y **Quality document associated to a dataset:** Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed? N **Validation of the final dataset:** How are datasets validated (quality checked) before providing to end-user? Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

Sampling scheme identifier: <u>OTBSLO</u>
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*   MEDITS protocol is used.
Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey

perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area.
The target species are listed in manual: MEDITS protocol is used.

Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys.
Demersal.

Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*
According the manual: MEDITS protocol is used.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.
According the manual: MEDITS protocol is used.

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.
 According the manual: MEDITS protocol is used

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.
 According the manual: MEDITS protocol is used

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.
 Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.
 According the manual: MEDITS protocol is used

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted

in the work plan.
No deviation recorded.
Sampling implementation
Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available. NA
Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year? Fixed sampling sites.
Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ... According the manual: MEDITS protocol is used. **Data capture documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox. According the manual: MEDITS protocol is used. **Quality checks documentation:** Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box. According the manual: MEDITS protocol is used.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. BIOS at the Fishery Research Institute of Slovenia
International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website. NA
Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box. Data quality is ensured by using sampling and data processing protocols of individual research surveys.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on

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quantities of sampled stored by species/stock, geographic sub-area and by year.
NA.
Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data processing
Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.
Y
Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.
Y
Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?
N
Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?
Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

Sampling scheme identifier: <u>OTB_VOL</u>
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*   Observers on board of fishing vessel collecting biological data of all catch.
Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area.
Observers on board of fishing vessel collecting biological data of all catch.
Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in

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multispecies surveys.

Demersal.

Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g.* *population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*

Observers on board of fishing vessel collecting biological data of all catch.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.

No deviation recorded.

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.

Observers on board of fishing vessel collecting biological data of all catch.

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.

Observers on board of fishing vessel collecting biological data of all catch

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.

Observers on board of fishing vessel collecting biological data of all catch

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.

Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

Observers on board of fishing vessel collecting biological data of all catch

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.

Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.

No deviation recorded.

Sampling implementation

Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.

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NA

Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?

Fishermen decided sampling sites.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data capture

Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...

Observers on board of fishing vessel collecting biological data of all catch.

Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.

Observers on board of fishing vessel collecting biological data of all catch.

Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box.

Observers on board of fishing vessel collecting biological data of all catch.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data storage

National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.

BIOS at the Fishery Research Institute of Slovenia

International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.

NA

Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.

Data quality is ensured by using sampling and data processing protocols of individual research surveys.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sample storage

Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.
NA.

Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. No deviation recorded.
Data processing
Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox. Y
Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox. Y
Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed? N
Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user? Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

S : SVN
Region: Mediterranean Sea and Black Sea
Sampling scheme identifier: MEDITS
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).* https://www.sibm.it/MEDITS%202011/principale%20project.htm
Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area. The target species are listed in manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm **Population sampled:** Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in

multispecies surveys.
Demersal.
Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.

Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**

Sampling implementation

Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.

NA

Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?

 Fixed sampling sites.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**

Data capture

Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...
According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box.

According the manual: https://www.sibm.it/MEDITS%202011/principale%20project.htm

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**

Data storage

National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.

BIOS at the Fisheries Research Institute of Slovenia

International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
NA

Quality checks and data validation documentation: Provide link to webpage where the documentation can be

found. Otherwise, provide some details in the text box. Data quality is ensured by using sampling and data processing protocols of individual research surveys.

Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year. Sagitta otoliths of Mullus barbatus, Mullus surmuletus and Merluccius merluccius are dry stored. Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

Data processing
Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox. Y **Editing and imputation methods:** Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox. Y **Quality document associated to a dataset:** Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed? N **Validation of the final dataset:** How are datasets validated (quality checked) before providing to end-user? Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

MS : SVN
Region: Mediterranean Sea and Black Sea
Sampling scheme identifier: MEDIAS
Sampling scheme type: Research survey at sea

European Maritime and Fisheries Fund

European Union

Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).* http://www.medias-project.eu/medias/website/handbooks-menu.html

Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area. The target species are listed in manual: http://www.medias-project.eu/medias/website/handbooks-menu.html **Population sampled:** Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys. Pelagic. **Stratification:** Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.* According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Sampling design and protocols
Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html **Is the sampling design compliant with the 4S principle?:** Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes) **Regional coordination:** Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html **Link to sampling design documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html **Compliance with international recommendations:** Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators. Y **Link to sampling protocol documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the

European Maritime and Fisheries Fund

European Union

EMFF

sampling protocol in this textbox.
 According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling implementation

Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.
 NA

Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?
 Fixed sampling sites.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data capture

Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...
 According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.
 According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box. According the manual: http://www.medias-project.eu/medias/website/handbooks-menu.html

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data storage

National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
 NA

International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.

NA
Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.   Data quality is ensured by using sampling and data processing protocols of individual research surveys.

Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.   Sagitta otoliths of Engraulis encrasicolus and Sardina pilchardus are dry stored.   Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

Data processing

Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.
  Y
 Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.
  Y
 Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?
  N
 Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?
  Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

Sampling scheme identifier: <u>SOLEMON</u>
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore
Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*

SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Description of the population

Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area.
The target species are listed in manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys.
Pelagic.

Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.*
According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling design and protocols

Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies.
According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)

Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating.
According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox.
According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators.
Y

Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type

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of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.

According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.

Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Sampling implementation
Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available. NA
Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year? Fixed sampling sites.
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ... According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017
Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox. According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017
Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box. According the manual: SoleMon - Rapido trawl survey in the Northern Adriatic Sea; Instruction manual; Version 3; November 2017
AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**
Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not

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applicable). Provide a link if the database is accessible through a website.

Atris (Italy)

International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.

NA

Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.

Data quality is ensured by using sampling and data processing protocols of individual research surveys.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sample storage

Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.

Sagitta otoliths of Solea solea are dry stored.

Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data processing

Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.

Y

Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.

Y

Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?

N

Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?

Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

Sampling scheme identifier: OTBSLO
Sampling scheme type: Research survey at sea
Observation type: SciObsOnShore

European Union

Time period of validity: summer
Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*   MEDITS protocol is used.

Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area. The target species are listed in manual: MEDITS protocol is used. **Population sampled:** Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys. Demersal. **Stratification:** Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.* According the manual: MEDITS protocol is used.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan. **No deviation recorded.**

Sampling design and protocols
Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies. According the manual: MEDITS protocol is used. **Is the sampling design compliant with the 4S principle?:** Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes) **Regional coordination:** Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating. According the manual: MEDITS protocol is used **Link to sampling design documentation:** Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox. According the manual: MEDITS protocol is used **Compliance with international recommendations:** Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators. Y **Link to sampling protocol documentation:** Provide a link to a webpage where the documentation can be

found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox.
 According the manual: MEDITS protocol is used

Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Sampling implementation

Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.
 NA

Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?
 Fixed sampling sites.

Data capture

Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...
 According the manual: MEDITS protocol is used.

Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.
 According the manual: MEDITS protocol is used.

Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box.
According the manual: MEDITS protocol is used.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data storage

National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
 BIOS at the Fishery Research Institute of Slovenia

International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
 NA

Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.

Data quality is ensured by using sampling and data processing protocols of individual research surveys.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.

No deviation recorded.

Sample storage

Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.

NA.

Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.

No deviation recorded.

Data processing

Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.

Y

Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.

Y

Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?

N

Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?

Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

| **Sampling scheme identifier: OTB_VOL** |
| **Sampling scheme type: Research survey at sea** |
| **Observation type: SciObsOnShore** |
| **Time period of validity:** summer |
| Short description (max 100 words): *e.g. sampling scheme aiming at collecting length samples from commercial landings on-shore for all species listed in Table 1 of the EU MAP Delegated Decision annex. The scheme covers mainland and all outermost regions ('RUP' in French, Portuguese, and Spanish).*

Observers on board of fishing vessel collecting biological data of all catch. |

Description of the population
Population targeted: Specify which are the primary sampling units (PSU), e.g. all national port*days (information present in former Table 4B). For research surveys: specify the main target species from a survey perspective (as opposed to Table 1 in the Annex to the Implementing Decision) and the main survey area. Observers on board of fishing vessel collecting biological data of all catch.
Population sampled: Specify which part of the target population will be sampled and specify which part of the target population is unreachable for sampling or excluded for some reason to explain, *e.g. major ports being listed as auctions excluding all minor ports and no sampling during the week-ends.* For research surveys at sea describe target species in single-species surveys or ecosystem component *(e.g. demersal, pelagic)* in multispecies surveys. Demersal.
Stratification: Explain the logic taken to stratify the population and the number of strata generated, *e.g. population stratified in 3 geographical lots (from A to B, from B to C and from C to D). Each lot is then stratified by auction.* Observers on board of fishing vessel collecting biological data of all catch.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.   **No deviation recorded.**
Sampling design and protocols
Sampling design description: Describe how the sampling allocation is defined; how PSU and SSU are selected for sampling; indicate for which catch fraction the sampling scheme applies. Observers on board of fishing vessel collecting biological data of all catch.
Is the sampling design compliant with the 4S principle?: Y/N/NA (NA for e.g. surveys and diadromous and recreational sampling schemes)
Regional coordination: Indicate if the sampling design and protocols were developed as part of a regional or multi-lateral agreement, and if yes, refer to the agreement (table 1.3) and list all MS participating. Observers on board of fishing vessel collecting biological data of all catch
Link to sampling design documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, Member State shall provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, Member State shall provide some details in the textbox. Observers on board of fishing vessel collecting biological data of all catch
Compliance with international recommendations: Indicate 'Y' (yes) if the sampling design is in line with international recommendations, and 'N' if not. If no relevant expert or coordination groups exist, the sampling design should be shortly explained in the text, and should be available upon request for the evaluators. Y
Link to sampling protocol documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the sampling design exists, provide details on the sampling protocol in this textbox. Observers on board of fishing vessel collecting biological data of all catch
Compliance with international recommendations: Member State shall state 'Y' (yes) if the sampling protocol is in line with international recommendations, and 'N' if not. If no relevant expert or coordination

groups exist, the sampling protocol should be shortly explained in the text, and should be available upon request for the evaluators.
Y

Sampling implementation
Recording of refusal rate: Indicate with 'Y' (yes) or 'N' (no), or 'NA' (not applicable, in case of research surveys). If 'N' (no), indicate when (year) documentation will be available.
NA
Monitoring of sampling progress within the sampling year: Indicate how sampling allocations are adjusted (if needed) and followed-up, what are the mechanisms in place to resolve issues and adopt mitigation measures during the sampling year?
Fishermen decided sampling sites.

Data capture
Means of data capture: short description (+ photo optionally). Indicate what are the means for collecting the data, e.g. scales, measuring board, dedicated software, ...
Observers on board of fishing vessel collecting biological data of all catch.
Data capture documentation: Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on data capture (e.g. measuring protocols, maturity staging, manual for the data capture means etc.) exists, provide some details in the textbox.
Observers on board of fishing vessel collecting biological data of all catch.
Quality checks documentation: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the quality checks exists, provide some details in the text box.
Observers on board of fishing vessel collecting biological data of all catch.

Data storage
National database: Provide the name of national database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
BIOS at the Fishery Research Institute of Slovenia
International database: Provide the name of international database(s) and the organisation hosting the database, if applicable. Otherwise, insert 'NA' (not applicable). Provide a link if the database is accessible through a website.
NA
Quality checks and data validation documentation: Provide link to webpage where the documentation can be found. Otherwise, provide some details in the text box.
Data quality is ensured by using sampling and data processing protocols of individual research surveys.

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in the work plan.
No deviation recorded.

Sample storage
Storage description: Indicate the type of soft tissues and hard parts stored (e.g. age structures, stomach, plankton, genetics) and the location used for samples storage; how long the samples are stored; how conservation and maintenance as well as access to samples are organised; whether the samples are stored under the auspices/responsibility of an international organization; if yes, which one. Provide a link to information on quantities of sampled stored by species/stock, geographic sub-area and by year.
NA.
Sample analysis: Provide a brief description or the references to documents, including link to webpages (e.g. age reading manuals, EGs reports and protocols) if adequate, where information on the processing of the samples is provided.

AR comment: Indicate any deviations or developments. Do not change the text already adopted in the work plan.
No deviation recorded.

Data processing
Evaluation of data accuracy (bias and precision): Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the evaluation of data accuracy exists, provide some details in the textbox.
Y
Editing and imputation methods: Indicate with 'Y' (yes) or 'N' (no). If 'N' (no), indicate when (year) documentation will be available. Provide a link to a webpage where the documentation can be found. If no link is available, but documentation exists, provide a literature reference (author(s), year and type of publication - e.g. internal report). If no documentation on the editing and imputation methods exists, provide some details in the textbox.
Y
Quality document associated to a dataset: Is there a publication digital object identifier (DOI) created? Is there a document summarising the estimation process followed?
N
Validation of the final dataset: How are datasets validated (quality checked) before providing to end-user?
Data quality is ensured by using sampling and data processing protocols of individual research surveys. For end users the data are selected from the database.

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ANNEX 1.2 - QUALITY REPORT FOR SOCIOECONOMIC DATA SAMPLING SCHEME

The quality report fulfils Article 6 (3) (d) of the Regulation (EU) 2017/1004. This document is intended to specify data to be collected under chapter II, points 3, 5, 6, and 7 of the Delegated Decision annex: Socioeconomic data on fisheries, aquaculture and any complementary data collection of fishing activity and fish processing.

Use this document to describe quality aspects of the data collection process (design, sampling implementation, data capture, data storage and data processing etc.). The annex should be filled for each sampling scheme. Where applicable, use the handbook on sampling design (Deliverable 2.1 from MARE/2016/22 SECFISH study), available on the DCF website.

Provide information under each point in all sections. Do not delete any text from the template.

Survey Specifications
'Sector name' refers to socio economic data on fisheries, aquaculture and any complementary data collection of fishing activity and processing as given in the EU MAP Delegated Decision annex. *'Sampling scheme' refers to survey technique: by census, by sampling, random or non-random, other (with explanation). If sampling, then outline sampling design.* *'Variables' refer to Tables 7, 9 and 10 of the EU MAP Delegated Decision annex.* *'Supra region' refers to Table 2 of the EU MAP Implementing Decision annex. If the sampling scheme is the same in all supra regions put 'All supra regions'.*
Sector name(s): Socio economic data on fisheries
Sampling scheme: by census
Variables: all variables listed in Table 7 and Table 9 of the EU MAP Delegated Decision annex
Supra region(s): Mediterranean Sea and Black Sea
Survey planning
1.   Provide a short description of the population to which the sampling scheme applies, *e.g. 'less active vessels using passive gears'*. The economic and social variables will be collected for all vessels - also for vessels under 10 meters. All economic variables will be collected for active vessels. For inactive vessels only capacity indicators and capital value and costs will be collected. As a type of data collection Slovenia will use census.
AR comment: Indicate any deviations. Do not change the text already adopted in the work plan. No deviation recorded.
Survey design and strategy
1.   List data sources; e.g. interviews, registers, log books, sales notes, VMS, financial accounts etc. 2.   Describe how the sample sizes were determined. 3.   Describe survey methods and distribution; e.g. questionnaire forms by post, by email, on website, by phone etc. access to other datasets etc. 4.   Describe the role of auxiliary information, if any, in the strategy: e.g. for validation, cross referencing, fall back data source etc.

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Bases for the collection of the economic and social variables are Table 7 and Table 9 of the EU MAP Delegated Decision annex. Collection of this variables combines use of the information from three main resources:

1. Questionnaire information returned on a voluntary basis,
2. The Slovenian data base InfoRib,
3. The annual accounts of business enterprises.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise. Most of the data will be cross-checked, e.g. value of landings from InfoRib will be checked with Income from annual accounts, landings from log book will be checked with sales in kg from sales notes, all costs from questionnaires will be checked with the costs from annual accounts etc. For checking the data will also be used databases from other public services such as Statistical Office of the Republic of Slovenia, Chamber of Commerce and Industry of Slovenia etc.

Because of the census used, the whole population is covered.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise.

The target population is entire fishing sector in Slovenia. A survey (questionnaire) will be carried out on an annual basis. All enterprises will be given questionnaire, developed by group of experts. Questionare will cover the entire population (census).

With the combination of the data from census questionares and official registers we expect to obtain good and reliable quality data.

Regarding data quality some accuracy indicators will be calculated;

- Response rate; achieved number of respondents who supplied data / frame population number
- Coverage rate; total value of production of the respondent units / total value of production of the frame population
- Coefficient of Variation (CV); only in case of response rate <70%

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Estimation design

1. Describe method of calculating population estimate from sample.

2. Describe method of calculating derived data: e.g. imputed values.

3. Describe treatment of nonresponse.

As a type of data collection Slovenia will use census. In the case of a census with non-responses, Slovenia will estimate variables using the method of extrapolation. Extrapolation is based on the assumption that trends in the observations will continue outside the range for which data are known. Slovenia will extrapolate data for each segment separately, so that there will be no errors due to different values in different segments.

Extrapolation formula:

$$\bar{a} = \frac{\sum\limits_{i=1}^{n}(a_i)}{}$$

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$$A = N * \bar{a}$$

A - total value of the parameter,

a_i - value of the parameter,

n – number of data with known value a,

N – total number of data,

$\bar{a}$ - average value of the parameter.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
No deviation recorded.

Error checks

1. Describe potential errors and how and where in the process these are detected, avoided or eliminated e.g., data; duplication, double counting, respondent error, upload error, processing error etc.

This is performed on regular yearly basis. All the data in the database are checked. Including programming code, calculations and protocols. This is checked before, in between and after the preparation of the data for answering data calls. Every year we also receive end users feedback on our data call responses with comments from end users and STECF.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
No deviation recorded.

Data storage and documentation

1. Describe how the data is stored.
2. Provide link to webpage where additional methodological documentation can be found, if any.

The data is stored in national data base called ''InfoRib''.
http://www.ribiski-sklad.si/Izvajanje_skupne_ribiske_politike/Zbiranje_podatkov

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
No deviation recorded.

Revision

1. Describe the frequency of the methodology review e.g., revision of; segmentation, survey method per segment, per variable etc.

The revision is carried out on an annual basis.

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AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
No deviation recorded.

Confidentiality

1.　　Are procedures for confidential data handling in place and documented?
Yes, procedures are in place. All interventions on the data are registered in the database.
2.　　Are protocols to enforce confidentiality between DCF partners in place and documented?
Yes, DCF partners operate on the basis of the Marine Fisheries Act and contract and must follow all relevant national legislation
3.　　Are protocols to enforce confidentiality with external users in place and documented?
Yes
4.　　Are there any issues with publication of data due to confidentiality reasons? Provide an explanation.
No issues recorded.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
No deviation recorded.

Survey Specifications

'Sector name' refers to socio economic data on fisheries, aquaculture and any complementary data collection of fishing activity and processing as given in the EU MAP Delegated Decision annex.   *'Sampling scheme' refers to survey technique: by census, by sampling, random or non-random, other (with explanation). If sampling, then outline sampling design.*   *'Variables' refer to Tables 7, 9 and 10 of the EU MAP Delegated Decision annex.*   *'Supra region' refers to Table 2 of the EU MAP Implementing Decision annex. If the sampling scheme is the same in all supra regions put 'All supra regions'.*

Sector name(s): Complementary data collection of processing industry

Sampling scheme: by census

Variables: all variables in Table 11 of the multi-annual Union programme (COM 2016/1251).

Supra region(s): Mediterranean Sea and Black Sea

Survey planning

As a type of data collection Slovenia will use census.   Because of the census used, the whole population is covered.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.   No deviation recorded.

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Survey design and strategy

5. List data sources; e.g. interviews, registers, log books, sales notes, VMS, financial accounts etc.

6. Describe how the sample sizes were determined.

7. Describe survey methods and distribution; e.g. questionnaire forms by post, by email, on website, by phone etc. access to other datasets etc.

8. Describe the role of auxiliary information, if any, in the strategy: e.g. for validation, cross referencing, fall back data source etc.

Basis for the collection of economic and social data on processing industry is Table 11 of the multi-annual Union programme. The target population will be entire fish processing companies in Slovenia. Data will be collected on the whole population of processing enterprises. The national program for collection of economic data for the processing industry combines information from three main resources:
- Questionnaire information returned from processing companies on a voluntary basis,
- The data from Veterinary Administration of the Republic of Slovenia (VARS),
- The annual accounts of business enterprises.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise. Most of the data will be cross-checked, e.g. all costs from questionnaires will be checked with the costs from annual accounts, income from questionnaire will be checked with the income from annual accounts, etc. For checking the data will also be used databases from other public services such as Statistical Office of the Republic of Slovenia, Chamber of Commerce and Industry of Slovenia etc.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise. The target population is all fish-processing sector in Slovenia. A survey (questionnaire, with personal contact) will be carried out on an annual basis to provide data on all the parameters. All enterprises will be given lengthy questionnaire, which will be developed by the experts.

With the combination of the data from census questionares and official registers we expect to obtain good and reliable quality data.

Regarding data quality some accuracy indicators will be calculated;
- Response rate; achieved number of respondents who supplied data / frame population number
- Coverage rate; total value of production of the respondent units / total value of production of the frame population
- Coefficient of Variation (CV); only in case of response rate <70%

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.
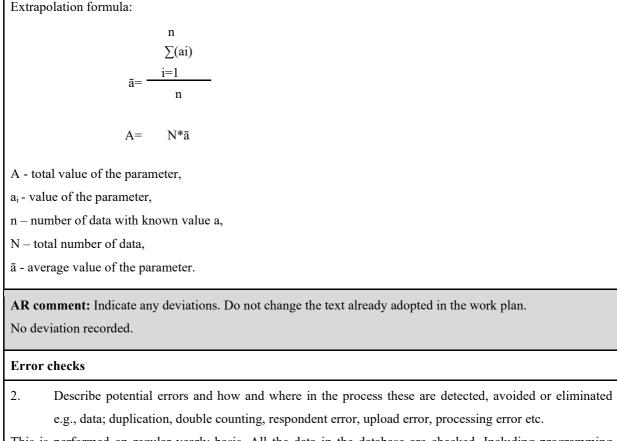
No deviation recorded.

Estimation design

4. Describe method of calculating population estimate from sample.

5. Describe method of calculating derived data: e.g. imputed values.

6. Describe treatment of nonresponse.

As a type of data collection Slovenia will use census. In the case of a census with non-responses, Slovenia will estimate variables using the method of extrapolation. Extrapolation is based on the assumption that trends in the observations will continue outside the range for which data are known. Slovenia will extrapolate data for each segment separately, so that there will be no errors due to different values in different segments.

Extrapolation formula:

$$\bar{a} = \frac{\sum\limits_{i=1}^{n}(ai)}{n}$$

$$A = \quad N*\bar{a}$$

A - total value of the parameter,

a_i - value of the parameter,

n – number of data with known value a,

N – total number of data,

$\bar{a}$ - average value of the parameter.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Error checks

2.   Describe potential errors and how and where in the process these are detected, avoided or eliminated e.g., data; duplication, double counting, respondent error, upload error, processing error etc.

This is performed on regular yearly basis. All the data in the database are checked. Including programming code, calculations and protocols. This is checked before, in between and after the preparation of the data for answering data calls. Every year we also receive end users feedback on our data call responses with comments from end users and STECF.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Data storage and documentation

3.   Describe how the data is stored.

4.   Provide link to webpage where additional methodological documentation can be found, if any.

The data is stored in national data base called ''InfoRib''.
http://www.ribiski-sklad.si/Izvajanje_skupne_ribiske_politike/Zbiranje_podatkov

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AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Revision

2.   Describe the frequency of the methodology review e.g., revision of; segmentation, survey method per segment, per variable etc.

The revision is carried out on an annual basis.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Confidentiality

---

5.   Are procedures for confidential data handling in place and documented?

Yes, procedures are in place. All interventions on the data are registered in the database.
6.   Are protocols to enforce confidentiality between DCF partners in place and documented?

Yes, DCF partners operate on the basis of the Marine Fisheries Act and contract and must follow all relevant national legislation

7.   Are protocols to enforce confidentiality with external users in place and documented?

Yes

8.   Are there any issues with publication of data due to confidentiality reasons? Provide an explanation.

No issues recorded.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Survey Specifications

'Sector name' refers to socio economic data on fisheries, aquaculture and any complementary data collection of fishing activity and processing as given in the EU MAP Delegated Decision annex.
'Sampling scheme' refers to survey technique: by census, by sampling, random or non-random, other (with explanation). If sampling, then outline sampling design.
'Variables' refer to Tables 7, 9 and 10 of the EU MAP Delegated Decision annex.
'Supra region' refers to Table 2 of the EU MAP Implementing Decision annex. If the sampling scheme is the same in all supra regions put 'All supra regions'.

Sector name(s): Socio economic data on aquaculture

Sampling scheme: by census

Variables: all variables listed in Table 9 and Table 10 of the EU MAP Delegated Decision annex

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Supra region(s): Mediterranean Sea and Black Sea

Survey planning

As a type of data collection Slovenia will use census.
Because of the census used, the whole population is covered.

European Union

EMFF

Survey design and strategy

9.   List data sources; e.g. interviews, registers, log books, sales notes, VMS, financial accounts etc.

10.   Describe how the sample sizes were determined.

11.   Describe survey methods and distribution; e.g. questionnaire forms by post, by email, on website, by phone etc. access to other datasets etc.

12.   Describe the role of auxiliary information, if any, in the strategy: e.g. for validation, cross referencing, fall back data source etc.

Bases for the collection of the economic and social variables are Table 9 and Table 10 of the EU MAP Delegated Decision annex The target population is entire marine aquaculture sector in Slovenia. Collection of this variables combines use of the information from three main resources:

1. Questionnaire information returned from the aquaculture sector on a voluntary basis,
2. Data base: 'Central register of aquaculture and commercial fish pond infrastructure' from MAFF (Ministry of Agriculture, Forestry and Food),
3. The annual accounts of business enterprises.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise. Most of the data will be cross-checked, e.g. all costs from questionnaires will be checked with the costs from annual accounts, income from questionnaire will be checked with the income from annual accounts, etc. For checking the data also databases from other public services such as Statistical Office of the Republic of Slovenia, Chamber of Commerce and Industry of Slovenia etc. will be used.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise. The target population is all marine aquaculture sector in Slovenia. A survey (questionnaire) will be carried out on an annual basis to provide data on all the parameters. All enterprises will be given lengthy questionnaire, which will be developed by experts. Data will be collected on the whole population so we do not expect any problems in achieving good quality of the data.

With the combination of the data from census questionares and official registers we expect to obtain good and reliable quality data.

Regarding data quality some accuracy indicators will be calculated:

- Response rate; achieved number of respondents who supplied data / frame population number
- Coverage rate; total value of production of the respondent units / total value of production of the frame population
- Coefficient of Variation (CV); only in case of response rate <70%

Estimation design

7.   Describe method of calculating population estimate from sample.

8.   Describe method of calculating derived data: e.g. imputed values.

9.   Describe treatment of nonresponse.

European Union

As a type of data collection Slovenia will use census. In the case of a census with non-responses, Slovenia will estimate variables using the method of extrapolation. Extrapolation is based on the assumption that trends in the observations will continue outside the range for which data are known. Slovenia will extrapolate data for each segment separately, so that there will be no errors due to different values in different segments.

Extrapolation formula:

$$\bar{a} = \frac{\sum_{i=1}^{n}(a_i)}{n}$$

$$A = N*\bar{a}$$

A - total value of the parameter,

a_i - value of the parameter,

n – number of data with known value a,

N – total number of data,

$\bar{a}$ - average value of the parameter.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Error checks

3.   Describe potential errors and how and where in the process these are detected, avoided or eliminated e.g., data; duplication, double counting, respondent error, upload error, processing error etc.

This is performed on regular yearly basis. All the data in the database are checked. Including programming code, calculations and protocols. This is checked before, in between and after the preparation of the data for answering data calls. Every year we also receive end users feedback on our data call responses with comments from end users and STECF.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

No deviation recorded.

Data storage and documentation

5.   Describe how the data is stored.

6.   Provide link to webpage where additional methodological documentation can be found, if any.

The data is stored in national data base called ''InfoRib''.
http://www.ribiski-sklad.si/Izvajanje_skupne_ribiske_politike/Zbiranje_podatkov

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan.

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No deviation recorded.

Revision
3.   Describe the frequency of the methodology review e.g., revision of; segmentation, survey method per segment, per variable etc. The revision is carried out on an annual basis.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan. No deviation recorded.

Confidentiality
9.   Are procedures for confidential data handling in place and documented? Yes, procedures are in place. All interventions on the data are registered in the database. 10.   Are protocols to enforce confidentiality between DCF partners in place and documented? Yes, DCF partners operate on the basis of the Marine Fisheries Act and contract and must follow all relevant national legislation 11.   Are protocols to enforce confidentiality with external users in place and documented? Yes 12.   Are there any issues with publication of data due to confidentiality reasons? Provide an explanation. No issues recorded.

AR comment: Indicate any deviations. Do not change the text already adopted in the work plan. No deviation recorded.

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