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Committee for Fisheries (STECF)

-

Fisheries Dependent Information

- FDI

(STECF-19-11)

Edited by Willy Vanhee, Arina Motova & Antonella Zanzi

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Abstract

Commission Decision of 25 February 2016 setting up a Scientific, Technical and Economic Committee for Fisheries, C(2016) 1084, OJ C 74, 26.2.2016, p. 4–10. The Commission may consult the group on any matter relating to marine and fisheries biology, fishing gear technology, fisheries economics, fisheries governance, ecosystem effects of fisheries, aquaculture or similar disciplines. The STECF reviewed the report of the EWG on Fisheries-dependent Information during its winter 2019 plenary meeting.

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SCIENTIFIC, TECHNICAL AND ECONOMIC COMMITTEE FOR FISHERIES (STECF) – FISHERIES DEPENDENT INFORMATION (STECF-19-11)

Request to the STECF

STECF is requested to review the report of the STECF Expert Working Group meeting, evaluate the findings and make any appropriate comments and recommendations.

The EWG-19-11 report was reviewed during the plenary meeting held in Brussels, Belgium, 11-15 November 2019.

STECF observations

The EWG addressed all the Terms of Reference. Below the main observations from STECF, for each ToR.

ToR 1: Review and document completeness of the data set and feedback from Member States on approaches used and problems encountered in responding to the data call

1.1 - *As a matter of priority, the EWG is requested to ensure that all unresolved data transmission (DT) issues encountered prior to and during the EWG meeting are reported on line via the Data Transmission Monitoring Tool (DTMT) available at <https://datacollection.jrc.ec.europa.eu/web/dcf/dtmt>. Such issues should be reported in full within 2 weeks of the end of the EWG.*

STECF observes that the data provided by Member States in response to the 2019 FDI data call, and incorporated into the FDI database hosted by the JRC, represent the most comprehensive data set currently available, and a significant improvement compared to last year. All data transmission issues identified by the EWG were reviewed during the meeting. Numerous issues of technical nature were identified in the checking process. Many of the issues were adequately explained. In some cases they could be resolved and re-uploaded with correct data during the EWG meeting.

Yet, a variety of shortfalls remain, largely because Member States' agreed national work plans are not designed specifically to collect and provide data at the disaggregation level requested in the FDI data call.

STECF notes that all major unresolved data transmission issues requiring an explanatory comment from Member States have been recorded in the Data Transmission Monitoring Tool (DTMT) by EWG 19-11.

1.2 - *Review outputs of ad hoc contract that provides a methodology to partition data (number at length) from Tables C and D (aggregations according to sampling programs) to Table A (detailed catch table), discuss and agree future methodology to be applied.*

STECF notes that the EWG19-11 reviewed the methodology and outputs of the *ad hoc* contract (1949) awarded to estimate the proportions of discards in number below and above MCRS aggregated corresponding to the metier level.

STECF notes that the methodology used in the *ad hoc* contract is appropriate, some checks were performed by the EWG. The output provides a valuable overview of the number of fish above and below the MCRS by country, year, area, metier, species and catch fraction. It meets the level of aggregation specified in discard plans and therefore adds value to the FDI data set by providing discard estimates which may be used to assess any potential impacts of the exemptions from landing obligation.

STECF also acknowledges that the JRC undertook extensive additional checks to the ones undertaken last year (e.g. domain names comparison between tables) on the data submitted

by Member States in response to the 2019 FDI data call. The achievements made by the contractor would not have been possible without such extensive checks.

STECF notes that the results in terms of discards in numbers at length above and below MCRCs were used to provide estimates of the weights of discards above and below MCRCs by applying, in a first step, the length/weight parameters obtained from 'Fishbase' (www.fishbase.org). STECF notes that for the next year data call the EWG suggested to include a column MEAN_WEIGHT_AT_LENGTH in Tables D and F (landings and discards by length) that will improve the quality of the estimated fractions and allow estimation without using ICES database.

1.3 - Review outputs of ad hoc contract that provides the catches, landings and discards, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each discard plan for 2020.

STECF observes that the *ad hoc* contract (1948) was reviewed and the methodology used to provide catches, landings and discards (catch fractions), at a level of aggregation corresponding to the fleet, area and gear type as specified in anticipated exemptions of discard plans for 2020 is appropriate. Nevertheless, in some cases, the discards estimates for exemptions were based on only a small number of discard samples or in the absence of appropriate samples, were derived by extrapolation (so-called 'fill-ins') from samples obtained by other countries within the same fisheries definitions (as reported by the EWG). STECF notes though that the EWG considered the estimates of catch fractions for all anticipated exemptions for 2020 to be sufficiently robust to be informative for DGMARE.

STECF further observes that two sets of estimates were computed: i) estimates for exempted fleets for which discard estimates were provided by Member States and ii) estimates for exempted fleets for which data was not provided by Member States but estimated within the FDI database following the standardised routine developed in 2018 ("fill-ins"). In addition, a measure of coverage was computed for the discard estimates (as % of landings with discard information available divided by total landings within the same exemption and fleet).

STECF agrees with the EWG that in some cases due to low sampling effort, the results may at the best be imprecise or may not be representative of the true level of discards of the fleets fishing under each exemption.

STECF acknowledges the need for a similar *ad hoc* contract also in 2020. This contract should generate the FDI codes needed to extract the 2021 exemptions from Table A of the FDI data call and calculate the landings and discards, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each discard plan for 2021 as requested by DGMARE.

1.4 - Review data quality checks and produce National methodological chapters.

STECF observes that a detailed review of the data submitted and of the methodology used by Member States answering the data call, together with an overview of the quality of such data, is given in Annex 2 of the EWG 19-11 report.

STECF agrees with the EWG opinion that in general, the collection of data under the EU data Collection Framework DCF is in accordance with Member States' National work plans, which are not specifically designed to provide representative sample data at the level of aggregation requested under the FDI data call and specifically for the LO exemptions.

Consequently, the estimates of catch fractions at the fine level of disaggregation requested by the FDI data call, cannot be calculated in a scientifically robust way. STECF notes that while Member States are primarily responsible for providing checked and validated data, numerous issues and errors in transmission will inevitably arise for various reasons e.g. misinterpretation of what is being requested, coding misspecification between different databases in Member States and simple human error. Hence, there will always be a requirement for Expert checks to be undertaken. Therefore STECF supports the opinion of the EWG 19-11 that an additional

dedicated Expert Group meeting to check the data provided by Member States in response to the FDI data call should be convened. STECF is of opinion that two Expert Working groups are convened in 2020. First, DATA EWG-FDI would be solely dedicated to compiling and checking the data submitted through the FDI data call and the second, Advice EWG-FDI, would respond to any advice requested by the Commission dependent on FDI data.

Such an EWG would permit a comprehensive review of the quality and completeness of the database and provide a platform to explore and develop methodologies used to estimate and disseminate scientifically robust information, e.g. discard and biological (age and length) data. Any advice requested by the Commission dependent on FDI data, would be best provided during a second, separate EWG meeting (Advice EWG-FDI).

ToR 2: In the interests of establishing common best practices, identify any aspects to answering to the data call that still need a common approach to be established

2.1 - Propose and agree practice for use of confidential data records. This includes treatment and presentation of data on the data dissemination site.

STECF observes that EWG 19-11 proposed the following approach regarding the dissemination of data marked as confidential:

- EU data that are aggregated across Member States can be published without removing the data marked as confidential as it will be impossible to isolate the confidential data.
- When publishing data at Member State level, data marked as confidential by the Member State in question are not displayed.
- Before disseminating data on the data dissemination site, it should be approved by the STECF plenary, and MS should be informed by DG MARE.

2.2 - MS methodologies applied when deriving Table A from biological sampling programs.

STECF observes that the methods used to estimate discards data from biological sampling to Table A vary between Member States. STECF agrees that in using different approaches there is the potential to generate biased estimates of catch fractions for different fleet components. STECF further observes that EWG 19-11 proposed the following approach, regarding the dissemination of such estimates:

- Dissemination Disclaimer: the EWG agreed that the discards data presented in Table A could be made publicly available in the dissemination tool. However, the group recommended adding a disclaimer at the top of the "EU Catches" tab in the dissemination tool highlighting the limitations of the data.
- Investment in quality control: the current level of complexity of the FDI database as a central repository for all European fishing effort requires dedicated expert time to ensure that intra- and inter-annual quality control is maintained, and quality is improved. Therefore, EWG 19-11 recommended to have two annual FDI meetings. The first meeting would be dedicated to the review of data quality and completeness. This first meeting would also provide a platform to explore and develop the methodologies used to estimate and disseminate scientifically robust information, e.g. discard and biological (age and length) data. Therefore, the second meeting would be convened to answer the ToRs set out by the Commission.
- Investment in data dissemination techniques: to increase efficiency and ensure that the data made available are disseminated properly, the EWG proposed an ad-hoc contract to develop a suite of methodologies for dissemination. These methodologies will provide a visual and numerical indication of estimated robustness and coverage. These methodologies can then be discussed and reviewed during the first FDI meeting in 2020.

STECF notes that due to limited resources and time during the EWG 19-11, it was not possible to achieve this objective.

2.3 - Discuss other issues that are relevant to the FDI data call and where possible conclude on a common approach to be used.

STECF observes that several issues arose in responding the 2019 FDI data call described in EWG19-11 report. The main issues relate to:

- i) The reporting of discards in Table A;
- ii) Inconsistencies in domain¹ definitions and hence how to link Tables C-F to Table A;
- iii) How to deal with zero landings with discards estimates.

STECF also observes that EWG 19-11 suggested 3 improvements in future data calls:

- i) In order to improve the data provided for the *Nephrops* stocks, the data should distinguish the different Functional Units (FUs), in Tables A, C, D, E and F. To capture this information it is suggested to add an extra column called "NEP_SUB_REGION" to the Tables A, C, D, E and F. The statistical rectangles, which identify the FU's, are outlined in Section 3.2.3 of the EWG 19-11 report and should be made available for MS during the data call.
- ii) To estimate the weight of discards and landings above and below Minimum Conservation Reference Size (MCRS), include a column in Tables D and F with MEAN_WEIGHT_AT_LENGTH and WEIGHT_UNIT (g = gram).
- iii) It would be useful to add a table to the data call, with discards amounts by domain. The rationale for such a proposal is described in Table 3.2.3.1 of the EWG 19-11 report.

The STECF supports all EWG proposals as those are considered to improve the data quality and usefulness.

ToR 3. Test the compatibility between the data collected in the FDI database and the data collected in the Mediterranean and Black Sea database

STECF observes that although the two data sets are still not fully matching, the level of homogeneity greatly increased in the 2018 data, submitted in response to the 2019 data calls.

STECF agrees that the two data sets require some of the same data. STECF acknowledges thus that requesting MSs to send the same information twice in the same period of the year in different formats for two different data calls is not an optimal situation, and a discussion on options to avoid this is needed. STECF notes, however, that although technically it is possible to transfer the data from one database to the other, it is not clear who would be tasked with performing this transfer and would take responsibility for the data quality.

STECF observes that EWG 19-11 highlighted a number of issues in potential switching from the Mediterranean and Black Sea data call to the FDI data call:

1. in order to run stock assessments at the beginning of September, the final dataset must be available by the end of August
2. STECF handling procedures (legal and operational deadlines) should be reviewed and revised accordingly.
3. If FDI data (including biological data) are to be published they will be treated as "official" and available to be used by any end user. However, during stock assessment EWGs the quality checks are performed at higher details (stock level) compared to FDI

¹ A domain refers to the group of vessels used to calculate estimates (discards, numbers at age, number at length). A domain may or may not be equivalent to a métier. Domain labels used in Tables C, D, E and F need to be present also in Table A.

checks. This different approach in quality checks (FDI more global and stock assessment checks focusing on the particular stocks to be assessed) may result in mismatch in terms of data issues that are reported in the DTMT.

4. If the Mediterranean and Black Sea data call would not call for fishery dependent information, there is a need for another EWG to quality check the Mediterranean and Black Sea biological data. Should it be the FDI group? If yes, when does it have to be scheduled (see point 1)?

5. If the Mediterranean and Black Sea data call would not call for fishery dependent information, a lot of scripts and tools already developed in the framework of DGMare (funded) projects (e.g. STREAM, RECFISH) or at MS level to check Mediterranean and Black Sea data according to Mediterranean and Black Sea format could become redundant.

6. To avoid that experts have to deal with 2 different datasets during stock assessment EWGs, FDI data should be reshaped according to the Mediterranean and Black Sea format.

7. Currently the Mediterranean and Black Sea call asks data for the year before the data call. However, MSs can still re-upload previous years on the express authority of DGMARE. In such cases, should MSs re-upload using FDI or Mediterranean and Black Sea data call format?

In order to deal with these issues EWG proposed two alternative approaches:

Proposal 1 - drop from the FDI call the Mediterranean and Black Sea biological data (Table C, D, E, F in FDI data call). FDI should call for Table A, B, G, J and spatial data (tables H & I) while Mediterranean and Black Sea would be kept as it is, avoiding to call effort data (Table D from the Mediterranean and Black Sea).

Proposal 2: pending all the issues listed above, drop commercial data and effort from Mediterranean and Black Sea (it will call survey and biological parameters only). This proposal could only become effective if points listed above will be solved. In addition, the EWG suggests that, before deleting biological data from the Mediterranean and Black Sea data call, detailed checks at stock level (priority species) should be ensured, for example comparing length distributions at stock level.

These proposals may be discussed further between DG Mare, STECF and the relevant end-users. STECF suggests a specific ToR for the STECF 20-01 Plenary on this topic.

ToR 4. Produce maps of spatial effort and landings by c-squares

4.1 - Discuss and agree possible format of dissemination tables based on FDI data collected (considering confidentiality issues):

STECF observes that the EWG 19-11 had thorough discussions on a possible format of FDI data for dissemination and provided respective data for publication on the JRC data dissemination site. STECF agrees with the opinion of the EWG that a second meeting earlier in the year (possibly July) or a workshop dedicated to develop and agree on a methodology on the best way to have the data provided to the FDI data call (effort, landings, discards and biological and capacity) publicly available in the dissemination tool. The aim of such a meeting would be to maintain the scientific robustness of the estimates, maintain confidentiality, but taking into account the utility of the data for the different end-users needs. STECF acknowledges that in order to have the best quality sampling data (discards and biological data) publicly available, extensive work needs to be done and agreement needs to be reached across the experts. STECF acknowledges that due to limited resources and time is not possible to achieve this having one meeting a year.

Therefore STECF stresses the need for *ad hoc* contract in 2020 to develop a suite of methodologies for the dissemination of FDI data. Such methodologies will provide a visual and numerical indication of estimate robustness and coverage (in particular for discards estimates). These methodologies can then be discussed and reviewed in the first FDI meeting and finalised during the second FDI meeting in 2020. STECF stresses that the output of this contract may also be useful in a broader context of data dissemination of scientific information.

4.2 - Produce maps of effort and landings by c-square for the following regions (as defined in COM-2016-134 for areas other than 'distant waters') and major gear types (as defined in appendix 4 of the data call):

STECF observes that maps of spatial effort and landings by c-squares were created for all main fishing regions and gear categories and available in the report. The EWG also developed the dissemination tool to make EU level data available for public.

ToR 5. Provide catches, landings and discards data for exemptions in discard plans as well as information on the percentage of fish below and above MCRS

STECF observes that the EWG was able to deliver the best available estimates for the discards. However the discard estimates are sometimes unavailable, because discards are not sampled, and for those fleets where discards have been sampled, the achieved sampling rate is often much lower than required to provide a robust estimate of the true discard fractions for many fleets with exemptions. Additionally, discards registered in logbooks are also believed to be an unreliable source of information and therefore are not requested by the FDI data call. STECF observes that the EWG was able to compute the best possible discard estimates for un-sampled métiers using the standardised routine developed in 2018 to populate un-sampled discard cells ("fill-ins").

STECF observes that for the first time, the weight of fish above and below MCRS was estimated. This was carried out by converting numbers at length from data submitted by Member States to weight at length applying length/weight parameters obtained from 'Fishbase' (www.fishbase.org) for each species and then summing the weights at length above and below MCRS. However, STECF realizes that this approach could be improved by using average weight at length by species and fractions (landings and discards). Therefore STECF suggests that in the next data calls, Member States should be requested to provide mean weights at lengths by fractions in addition to the numbers at length in order to obtain better estimates of percentages below and above MCRS. STECF agrees that such information is potentially informative in the context of exemptions from the landing obligation.

STECF notes that the EWG 19-11 has adopted the same selection criteria set out by the EWG 18-11 to populate gaps in discard estimates ("fill-ins").

The criteria used to apply the "fill-ins" are as follows:

For all areas apart from the Mediterranean Sea (outside area 37)

year, quarter, species, sub_region, gear_type, mesh_size_range, target_assemblage, specon_tech

For the Mediterranean Sea (area 37)

year, quarter, species, sub_region, metier, specon_tech

Such "fill-ins" increased discards coverage from 22% to 30% of landed weight in 2018, or 2% in number of records provided by MSs for the same year and therefore discards are still missing for most of the landings provided for the FDI data call.

STECF conclusions

STECF concludes that the EWG 19-11 addressed all ToRs appropriately, although STECF notes that these were very comprehensive.

If the information provided by the Member States for the FDI data call 2019 is to be made publicly available, STECF supports the formats for tables and maps agreed and proposed by STECF EWG 19-11 which respect various constraints in terms of confidentiality, accuracy and transparency.

STECF concludes that the estimated discards in Table A are split in categories smaller than the ones used for sampling discards (including e.g. vessel size or mesh size). This implies assuming that discard rates are the same across sub-categories within a métier, which might not be the case in reality. As such, the accuracy of these estimates remain uncertain but they represent the best available estimates at that level of EU-wide coverage. STECF notes also that the general methodology used to estimate discards is consistent with what was used in the old FDI.

STECF concludes that the methodology used to calculate the percentages below and above MCRS of landings and discards is appropriate and useful to inform on trends in size composition in the context of the landing obligation. STECF suggests to include a column in Tables D and F (landings and discards by length respectively) with MEAN_WEIGHT_AT_LENGTH which will improve the estimates.

To ensure the best data quality and continue building a common methodology addressing the data call creating the EU level FDI database, STECF suggests that two Expert Working groups are convened in 2020. First, DATA EWG-FDI would be solely dedicated to compiling and checking the data submitted through the FDI data call and the second, Advice EWG-FDI, to respond to any advice dependent on FDI data requested by the Commission.

STECF also concludes that in order to i) increase efficiency, ii) improve the homogeneity of methodologies used by Member States to estimate discards for Table A using biological sampling results and iii) incorporate quality indicators of discard estimates provided in Table A when disseminating results, two *ad-hoc* contracts should be issued prior to the EWG-FDI meeting(s) in 2020:

- Contract 1 to develop a suite of methodologies for dissemination of FDI data.
- Contract 2 to generate the FDI codes needed to extract the 2021 exemptions from table A of the EWG and to calculate the landings and discards, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each discard plan for 2021.

In addition STECF also proposes to add table to the 2020 data call, with discards amounts by domain and number of sampled trips as suggested in the EWG 19-11 report to collect information on sampling intensity to be used when disseminating results.

STECF agrees with the EWG proposal to add an extra column called "NEP_SUB_REGION" to tables A, C, D, E and F in order to distinguish the different *Nephrops* Functional Units (FUs).

Based on a comparison between the FDI and Mediterranean and Black Sea databases, STECF concludes that while the two data sets are still not fully compatible, the level of homogeneity has greatly improved due to the improvements made in the 2019 data call on the reference codes and on the variables requested. STECF acknowledges the issue of excess workload for Member States while responding to multiple data calls. In order to ease these issues STECF envisage harmonisation of FDI and Med&BS datacalls/data bases. STECF suggests a specific ToR for the STECF 20-01 Plenary on this topic, with preliminary analyses to be performed in advance of this discussion.

Similar investigations could be conducted regarding the compatibility of the FDI with the AER data call.

Contact details of STECF members

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EXPERT WORKING GROUP EWG-19-11 REPORT

REPORT TO THE STECF

EXPERT WORKING GROUP ON Fisheries Dependent Information – “FDI” (EWG-19-11)

Ispra, Italy, 16-20 September 2019

This report does not necessarily reflect the view of the STECF and the European Commission and in no way anticipates the Commission’s future policy in this area

1 INTRODUCTION

The STECF EWG 19-11 met during 16 – 20 September 2019 at Ispra, Italy. The meeting was opened at 9 am on 16 September and was adjourned at 13.00 on 20 September 2019. Working conditions provided were considered good.

1.1 Terms of Reference for EWG-19-11

DG Mare focal person: Evelien Ranshuysen and Jonathan Shrives

Chairs: Willy Vanhee and Arina Motova

Background

An STECF Expert Working Group on Fisheries Dependent Information will be convened from 16– 20 September 2019 in Ispra, Italy to review the data transmitted by Member States under the 2019 New-FDI data call to judge:

- i) If data submitted is complete in terms of areas of fishing, types of fleet segment and gear operated and species identified.
- ii) If data submitted is complete in terms of type of data requested: capacity metrics, effort metrics, landings, unwanted catch and spatially disaggregated landings and effort.
- iii) The level of compatibility between the effort data in the FDI database and that submitted to the Mediterranean and Black Sea data call.
- iv) The level of compatibility between the landings data in the FDI database and that submitted to the Mediterranean and Black Sea data call for those species listed in the latter call.

In addition, the EWG is asked to map the data on fishing effort obtained from the call for spatially disaggregated data.

In considering the completeness of the data submitted the EWG is entitled to use external sources of data where necessary, as well as expert judgement.

One of the motivations behind a comprehensive transversal database was the possibility to rationalise the DCF data call process. The Mediterranean and Black Sea data call requests data for a considerable number of tables specifically aimed at allowing stock assessments but the 'fisheries' tables of catch and effort in principle should be directly comparable to those from the FDI. A reduction in the number of tables requested under the Mediterranean and Black Sea data call and reduction in workload for Member States is possible if true compatibility between databases can be demonstrated.

Terms of Reference: see annex

Annex – Terms of Reference

1 – Review and document completeness of the data set and feedback from Member States on approaches used and problems encountered in responding to the data call.

1. As a matter of priority, the EWG is requested to ensure that all unresolved data transmission (DT) issues encountered prior to and during the EWG meeting are reported on line via the Data Transmission Monitoring Tool (DTMT) available at <https://datacollection.jrc.ec.europa.eu/web/dcf/dtmt>. Such issues should be reported in full within 2 weeks of the end of the EWG.
2. Review outputs of ad hoc contract that provides a methodology to partition data (number at length) from Tables C and D (aggregations according to sampling programs) to Table A (detailed catch table), discuss and agree future methodology to be applied.
3. Review outputs of ad hoc contract that provides the catches, landings and discards, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each discard plan for 2020.
4. Review data quality checks and produce National methodological chapters.

2 – In the interests of establishing common best practices, identify any aspects to answering to the data call that still need a common approach to be established.

1. Propose and agree practice for use of confidential data records. This includes treatment and presentation of data on the data dissemination site.
2. Review MS methodology applied when deriving Table A from biological sampling programs.
3. Discuss other issues that are relevant to the FDI data call and where possible conclude on a common approach to be used.

3 – Test the compatibility between the data collected in the FDI database and the data collected in the Mediterranean and Black Sea database.

1. For data from 2017 and 2018 and FAO area 37, compare
 - a. Codes used in the FDI and Med&BS data calls (e.g. gear type, vessel length, metier, etc.).
 - b. Sums of effort (kWdays-at-sea, GTdays-at-sea, fishing days) at the level of country-year-GSA area-gear type. The comparison is to be made between data held in Table G 'Effort summary' of the FDI database and the Table D 'Fisheries effort data' of the Mediterranean and Black Sea database (as described in Annex 1, Appendix 2.4 of the Med&BS data call).
 - c. Sums of landings (tonnes) and sum of discards (tonnes) at the level of country-year-GSA area-gear type. The comparison is to be made between data held in Table A 'Catch summary' of the FDI database and the Tables B 'Fisheries landings at length data' and C 'Fisheries discards at length data' of the Mediterranean and Black Sea database (as described in Annex 1, Appendix 2.2 and 2.3 of the Med&BS data call). Comparison to be restricted to the species contained in Annex 1, Appendix 1.7 of the Med&BS data call.

- d. Conditional on successful matching of the total landed weight and discards weight totals, compare numbers at length at the level of country-year-GSA area-gear type. The comparison is to be made between data held in Tables F MBS 'Landings length data' and D MBS 'Discards length data' of the FDI database and Tables B 'Fisheries landings at length data' and C 'Fisheries discards at length data' of the Mediterranean and Black Sea database (as described in Annex 1, Appendix 2.2 and 2.3 of the Med&BS data call). Comparison to be restricted to the species contained in Annex 1, Appendix 1.7 of the Med&BS data call.

4 - Produce maps of spatial effort and landings by c-squares

1. Discuss and agree possible format of dissemination tables based on FDI data collected (considering confidentiality issues).
2. Produce maps of effort and landings by c-square for the following regions (as defined in COM-2016-134 for areas other than 'distant waters') and major gear types (as defined in appendix 4 of the data call):
 - a. Baltic; North Sea; North Western Waters; South Western Waters; Mediterranean and Black Sea; Distant waters²
 - b. Trawls (except beam trawls) with mesh < 100mm; trawls (except beam trawls) with mesh ≥ 100mm; beam trawls with mesh < 120mm; beam trawls with mesh ≥120mm; seine nets; gillnets and entangling nets; dredges; hooks and lines; surrounding nets; pots and traps.

5 –Provide catches, landings and discards data for exemptions in discard plans

STECF is asked to provide figures for landings and discards in 2018, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each of the discard plans for 2020.

STECF is asked to assess and if possible, provide percentages of discards estimates below and above MCRS at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each of the discard plans for 2020.

Where there is insufficient discard data for the above task, the STECF is asked to provide estimated catches (landings + discards³) for 2018, if possible and enough data provided during data call.

² Defined here as waters not covered by the previously listed areas.

³ Discards are defined here as the fish/crustaceans thrown overboard.

2 DATA PROVISION AND CHECKS

2.1 Data call

The DCF FDI data call 2019 opened on 25 June 2019 and the legal deadline was initially set to 24 July 2019; afterwards, following a request that DG MARE received from the Regional Coordination Group for the Baltic, the legal deadline was extended to 8 August 2019.

The 2019 FDI data call is consistent with the comments and suggestions from the EWG 18-11 (see the STECF report of the EWG 18-11).

The data format to be used to answer the data call was detailed in the annex sent with the official letter and it is documented on the JRC DCF website (<https://datacollection.jrc.ec.europa.eu/data-calls>). The data call specified 14 tables, among which 4 were for Mediterranean and Black Sea regions (GFCM GSAs) only.

Data were requested for 4 years (from 2015 to 2018) for all the tables except table H and table I that contain spatial information. For Mediterranean and Black Sea regions (GFCM GSAs), spatial data were requested for years 2017 and 2018 only; data for years 2015 and 2016 were welcomed if available, but the submission was not compulsory.

Declaration

In the context of the confidential data used during the EWG 19-11 meeting, the experts signed the following declaration at the beginning of the meeting:

In order to answer the term of reference of the EWG 19-11, the Fisheries Dependent Information

(FDI) data provided by Member States in the context of the DCF FDI 2019 data call will be used.

The FDI data call requests data at a detailed level; for this reason it is possible for Member States to mark data as confidential.

I hereby declare that I was informed by the STECF secretariat and the chairs of the EWG 19-11 that

the dataset used during the EWG contains some confidential data and that access to and use of the

dataset is only permitted in the EWG context. Consequently, all DCF FDI datasets shall be removed

all the electronic supports used (e.g. hard disk, memory stick, etc.), and no electronic or paper

copies of the data shall be kept by experts after completion of the EWG 19-11 report.

Signing the present declaration, I acknowledge that I was informed on the above.

2.2 Data checks on uploads and data evaluations before EWG 19-11 meeting

Timeliness and coverage

Most Member States submitted data by the legal deadline of the data call. Greece and Netherlands submitted most of the data after the legal deadline, while Spain provided only one table before the legal deadline and the rest of the data during the EWG 19-11.

As shown in Figure 2.1, many Member States reuploaded data after the legal deadline and also during the EWG 19-11 because the extensive checks conducted by JRC from the data call legal deadline until the EWG 19-11 meeting, revealing many errors in the uploaded data and/or missing data. The results of these checks form the basis for most of the data corrections by the Member States.

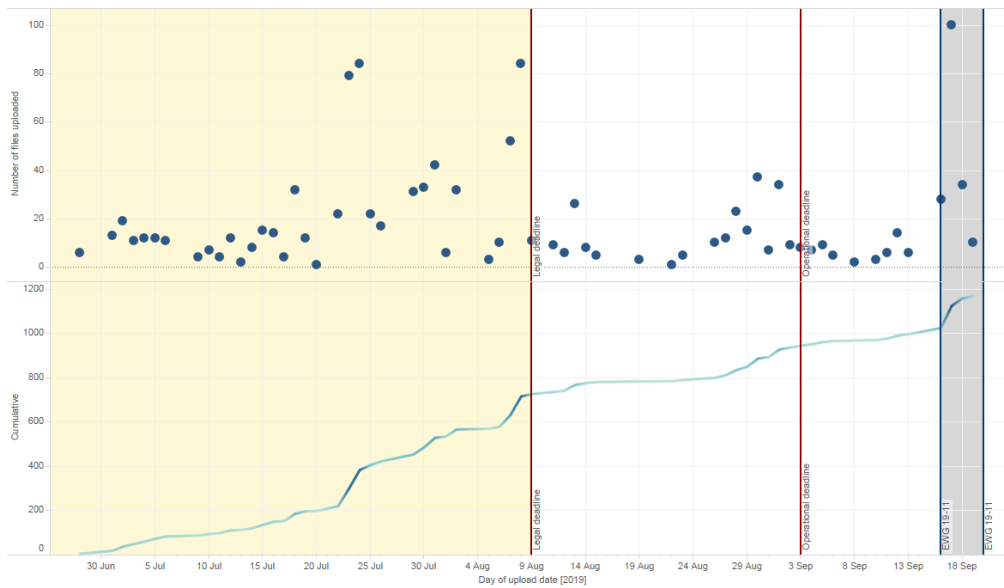


Figure 2.1: Uploading progress: the graph shows the number of datasets (i.e., files Excel) uploaded over the time during the FDI data call and the EWG 19-11.

About the coverage of the data, Member States (with few exceptions) submitted data for most of the variables and for all the years requested. Notably among the exceptions, Greece did not provide data for year 2017 in tables A, C, D, E and F.

The coverage of discards data in table A is generally poor: on a total of 1779582 rows, there are 226416 entries with discards greater than 0; 121965 entries with discards equal to 0; 1431201 entries with discards not known (NK code) (see for details, conclusions in section 3.5). Only Estonia did not provide any discard data in table A.

Concerning the refusal data information requested in table B: Estonia, Finland, France, Italy, and Netherlands did not provide this table (see Figure 2.2). In addition, Greece and Romania submitted an empty table, and Lithuania provided data with all the variables set to not known (NK value). Information about the number of rows provided for table B with values different from NK are provided in Figure 2.3.

Data set	Belgium	Bulgaria	Croatia	Cyprus	Denmark	Estonia	Finland	France	Germany	Greece	Ireland	Italy
TABLE_A	05/07/2019	10/07/2019	08/08/2019	12/07/2019	01/07/2019	08/08/2019	02/07/2019	06/07/2019	26/07/2019	11/09/2019	01/07/2019	25/07/2019
TABLE_B	16/07/2019	16/07/2019	08/08/2019	15/07/2019	07/08/2019				26/07/2019	11/09/2019	31/07/2019	
TABLE_C	05/07/2019	16/07/2019	08/08/2019	12/07/2019	07/08/2019	08/08/2019	02/07/2019	06/07/2019	26/07/2019	12/09/2019	01/08/2019	06/08/2019
TABLE_D	05/07/2019	16/07/2019	09/08/2019	12/07/2019	07/08/2019	08/08/2019	02/07/2019	06/07/2019	26/07/2019	11/09/2019	31/07/2019	06/08/2019
TABLE_E	05/07/2019	02/08/2019	09/08/2019	12/07/2019	08/08/2019	08/08/2019	02/07/2019	06/07/2019	26/07/2019	12/09/2019	02/08/2019	06/08/2019
TABLE_F	05/07/2019	02/08/2019	09/08/2019	15/07/2019	08/08/2019	08/08/2019	02/07/2019	06/07/2019	26/07/2019	11/09/2019	02/08/2019	06/08/2019
TABLE_G	15/07/2019	16/07/2019	19/07/2019	16/07/2019	01/07/2019	08/08/2019	02/07/2019	06/07/2019	15/07/2019	08/08/2019	01/07/2019	26/07/2019
TABLE_H	15/07/2019	29/07/2019	19/07/2019	29/07/2019	01/07/2019	08/08/2019	03/07/2019	18/07/2019	17/07/2019	08/08/2019	02/07/2019	02/08/2019
TABLE_I	15/07/2019	31/07/2019	19/07/2019	29/07/2019	01/07/2019	08/08/2019	03/07/2019	18/07/2019	18/07/2019	07/08/2019	01/07/2019	02/08/2019
TABLE_J	15/07/2019	04/07/2019	19/07/2019	16/07/2019	01/07/2019	08/08/2019	03/07/2019	05/07/2019	15/07/2019	07/08/2019	01/07/2019	26/07/2019

Data set	Latvia	Lithuania	Malta	Netherlands	Poland	Portugal	Romania	Slovenia	Spain	Sweden	United Kingdom
TABLE_A	05/07/2019	18/07/2019	24/07/2019	08/08/2019	14/07/2019	12/07/2019	22/07/2019	10/07/2019	16/09/2019	28/06/2019	23/07/2019
TABLE_B	08/08/2019	18/07/2019	24/07/2019		14/07/2019	07/08/2019	22/07/2019	12/07/2019	17/08/2019	08/08/2019	29/07/2019
TABLE_C	31/07/2019	18/07/2019	24/07/2019	13/08/2019	14/07/2019	07/08/2019	22/07/2019	10/07/2019	17/08/2019	28/06/2019	23/07/2019
TABLE_D	01/08/2019	18/07/2019	24/07/2019	13/08/2019	14/07/2019	07/08/2019	22/07/2019	16/07/2019	17/08/2019	28/06/2019	23/07/2019
TABLE_E	02/08/2019	18/07/2019	24/07/2019	08/08/2019	14/07/2019	07/08/2019	22/07/2019	16/07/2019	17/08/2019	28/06/2019	23/07/2019
TABLE_F	05/08/2019	18/07/2019	24/07/2019	09/08/2019	14/07/2019	07/08/2019	22/07/2019	16/07/2019	17/08/2019	28/06/2019	23/07/2019
TABLE_G	04/07/2019	18/07/2019	25/07/2019	13/08/2019	14/07/2019	22/07/2019	22/07/2019	10/07/2019	16/08/2019	01/07/2019	23/07/2019
TABLE_H	02/07/2019	18/07/2019	25/07/2019	14/08/2019	15/07/2019	26/07/2019	22/07/2019	11/07/2019	16/09/2019	01/07/2019	09/07/2019
TABLE_I	04/07/2019	18/07/2019	25/07/2019	14/08/2019	15/07/2019	25/07/2019	22/07/2019	11/07/2019	16/09/2019	01/07/2019	25/07/2019
TABLE_J	10/07/2019	18/07/2019	25/07/2019	15/08/2019	14/07/2019	22/07/2019	22/07/2019	11/07/2019	07/08/2019	04/07/2019	11/07/2019

Figure 2.2: Timeliness overview: data sets uploaded by Member States during the FDI data call with the date of the first successful upload.

Country	Template	Variable	2015	2016	2017	2018
Belgium	TABLE_B	refusal_rate (rows number)	1	1	1	
		trips_sampled_onboard (rows number)	1	1	1	
Bulgaria	TABLE_B	refusal_rate (rows number)				4
		trips_sampled_onboard (rows number)				4
Cyprus	TABLE_B	refusal_rate (rows number)	1	1	2	2
		trips_sampled_onboard (rows number)	2	2	2	2
Denmark	TABLE_B	refusal_rate (rows number)	7	7	6	6
		trips_sampled_onboard (rows number)	7	7	6	6
Germany	TABLE_B	refusal_rate (rows number)	9	9	9	9
		trips_sampled_onboard (rows number)	9	9	9	9
Ireland	TABLE_B	refusal_rate (rows number)				3
		trips_sampled_onboard (rows number)				3
Latvia	TABLE_B	refusal_rate (rows number)	4	4	4	4
		trips_sampled_onboard (rows number)	4	4	4	4
Malta	TABLE_B	refusal_rate (rows number)		5	3	4
		trips_sampled_onboard (rows number)	5	5	3	4
Poland	TABLE_B	refusal_rate (rows number)			13	14
		trips_sampled_onboard (rows number)			15	15
Portugal	TABLE_B	refusal_rate (rows number)			6	6
		trips_sampled_onboard (rows number)			6	6
Slovenia	TABLE_B	refusal_rate (rows number)				1
		trips_sampled_onboard (rows number)	1	1	1	1
Spain	TABLE_B	refusal_rate (rows number)		3	5	4
		trips_sampled_onboard (rows number)		3	5	4
Sweden	TABLE_B	refusal_rate (rows number)		27	26	28
		trips_sampled_onboard (rows number)	44	41	42	48
United Kingdom	TABLE_B	refusal_rate (rows number)	5	5	16	16
		trips_sampled_onboard (rows number)	7	7	19	19

Figure 2.3: Number of rows provided in table B with the refusal rate or trips sampled on board variables different from NK (not known).

Checks during the upload of the data

The majority of the checks performed during the upload of the data concerned the use of valid codes referred to the various appendixes of the data call and the type of the data entered (numeric or text).

In particular, the upload tool verified the format of the provided files and checked the codes used to specify the following information: country, fishing technique, vessel length, gear type, target assemblage, mesh size range, metier, species, supra-region, sub-region, geographical indicator, EEZ indicator, deep fisheries, specific conditions related to technical measures (variable name: specon tech). In addition, the consistency between the following couples of variables were verified: sub-region codes and EEZ indicator codes; sub-region codes and mesh size range codes.

In the upload tool, the following check among different tables was provided: during the upload of tables C, D, E and F, a control was performed on the presence of domain landings and domain discards codes in table A for the same country, year and species.

Post-upload data checks

After the upload of the data by Member States, JRC carried out quality checks for:

- Consistency between the data submitted and the specification of the data call
- Consistency between the data submitted in the different tables of the FDI data call
- Data comparison among years
- Cross checks with another data source (EUROSTAT data)

In more detail, the following checks were performed and visualized with Tableau:

- Comparison of any given metric over the time series (2015-2018).
- Using the total weight landings and total value landings fields from table A, an average price per species and year were calculated and compared to the average price calculated per country.
- Using the information provided in table C and E, an average mean weight per species, age and year were calculated and compared to the average mean weight calculated per country.
- Using the information provided in table C and E, an average mean length per species, age and year were calculated and compared to the average mean length calculated per country.
- Validation of the age value in the range [min age - max age] (tables C and E).
- Validation of the length value in the range [min length - max length] (tables D and F).
- Comparison between discards [tonnes] and the sum of products [tonnes] = no_age [number in thousand]*mean_weight [kg] (tables C and D).
- Comparison between totwghtlandg [tonnes] and the sum of products [tonnes] = no_age [number in thousand]*mean_weight [kg] (tables E and F).
- Where domain landings codes match between tables A, E and F, the sum of total weight landings values in table A for the given domain name was check against the total weight landings value in tables E and F.
- Where domain discards codes match between tables A, C and D, the sum of total weight landings values in table A for the given domain name was check against the total weight landings value in tables C and D.
- Comparison between total weight landings and total value landings: totwghtlandg>0 and totvallandg=0 in table A.
- Comparison between weight landings and effort: totwghtlandg>0 in table A and effort (totfishdays and totseadays) not present or NK in table G.

- Comparison between spatial weight landings in table H and weight landings in table A: totwghtlandg>0 in table H and totwghtlandg not present in table A.
- Comparison between spatial effort in table I and effort in table G: totfishdays>0 in table I and totfishdays not present or NK in table G.
- Identification of the inconsistencies among the spatial components of effort and weight landings, which is the cases when the provided coordinates do not belong to the specified sub-region (tables H and I).
- Average length vessels compatibility with the vessel length category (table J).
- Comparison of number of vessels from table J and table G: totves>0 in table G and totves in table J is not present or NK.

The most relevant issues highlighted by the data checks implemented at JRC are listed in the following:

- Data provided with different unit of measures (in tables A, C, D, E, F, G, H and I).
- Row data provided instead of data raised to the total production (in tables C, D, E and F).
- For the same domain landings, different values of total weight landings (in tables E and F).
- For the same domain discards, different values of discards (in tables C and D).
- For the same domain discards, different values of total weight landings (in tables C and D).
- Inconsistencies between the sub-region code and the spatial coordinates (latitude and longitude) provided in tables H and I.

Cross checks with EUROSTAT data

The purpose of cross checks with an external data source was to check for completeness of submitted data sets. EUROSTAT datasets have been downloaded from:

<http://ec.europa.eu/eurostat/web/fisheries/data/database>

Results of the checks were made available to national correspondents (with access credentials that restricted them to seeing information about their own country only) and the EWG 19-11 experts (with access credentials that allowed them to see information about all countries).

3 RESPONSES TO THE TERMS OF REFERENCE

3.1 Review and document completeness of the data set and feedback from Member States on approaches used and problems encountered in responding to the data call

3.1.1 ***As a matter of priority, the EWG is requested to ensure that all unresolved data transmission (DT) issues encountered prior to and during the EWG meeting are reported on line via the Data Transmission Monitoring Tool (DTMT) available at <https://datacollection.jrc.ec.europa.eu/web/dcf/dtmt>. Such issues should be reported in full within 2 weeks of the end of the EWG***

The data provided by Member States in response to the 2019 FDI data call and incorporated into the FDI database hosted by the JRC, represents the most comprehensive data set currently available. However, a variety of shortfalls in data collection and provision inevitably remain, largely because Member States' agreed national work plans are not designed specifically to collect and provide data at the disaggregation level requested in the FDI data call.

All unresolved data transmission issues which the EWG considers require an explanatory comment from Member States have been recorded in the Data Transmission Monitoring Tool (DTMT). As far as was practically possible, such issues have been reported in accordance with the guidelines available (Annex 1).

In the majority of cases, the issues raised are errors as opposed to omissions in the data transmitted and such issues are raised in the DTMT in order to inform Member States that they should strive to correct such errors and avoid similar errors in any future data calls. Nevertheless, there are a small number of issues that are data transmission omissions which require an explanation from the relevant Member State as to why such issues have arisen.

Member States are requested to consult the DTMT at <https://datacollection.jrc.ec.europa.eu/web/dcf/dtmt>, and respond to any issues raised regarding data transmission. Filtering on the columns year (=2019) and data call = FDI will reveal the relevant issues.

3.1.2 ***Review outputs of ad hoc contract that provides a methodology to partition data (number at length) from Tables C and D (aggregations according to sampling programs) to Table A (detailed catch table), discuss and agree future methodology to be applied***

The EWG reviewed the methodology and outputs of the ad hoc contract (1949) awarded to estimate the proportions of discards in number below and above MCRS at a level of aggregation corresponding to the fleet, area and gear type hereby anticipating exemptions in discard plans for 2020.

The methodology used is appropriate and the output provides a valuable overview of the number of fish above and below the MCRS by country, year, area, metier, species and catch fraction. It meets the level of aggregation specified in discard plans and therefore adds value to the FDI data set by providing discard estimates which may be used to assess any potential impacts of the landing obligation on discarding. Furthermore, it may

prove useful to DGMARE to assess future proposals for exemptions from the landing obligation.

The JRC undertook extensive additional checks on the data submitted by Member States in response to the 2019 FDI data call. The achievements made by the contractor would not have been possible without such extensive checks.

During the EWG 19-11 meeting, the proportions in weight of discards above and below MCRS were estimated. Given the absence of information on Mean weight at length in Tables D and F from the FDI database, the EWG chose to convert numbers at length to weight at length using the von Bertalanfy growth parameters obtained from 'Fishbase' (www.fishbase.org).

Within the contract additional data quality control output was provided. Duplicated entries for the numbers at length (D and F) and age (C and E) were listed and the correspondence between table A and the tables with biological data (C-F) was also provided.

The methodology and results are presented in section 3.5.3.

3.1.3 Review outputs of ad hoc contract that provides the catches, landings and discards, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each discard plan for 2020

The EWG reviewed the ad hoc contract (1948) awarded to provide catches, landings and discards (catch fractions), at a level of aggregation corresponding to the fleet, area and gear type as specified in anticipated exemptions of discard plans for 2020. The methodology used is appropriate although in many cases, the estimates from exemptions were based on only a small number of discard samples or in the absence of any appropriate samples, were derived by extrapolation (so-called 'fill-ins') from samples obtained for other exemptions.

The EWG recognises that this output is a valuable planning tool for DGMARE, and the EWG endeavoured to provide estimates of catch fractions for all anticipated exemptions for 2020. However, catch fractions could not be provided for exemptions containing operation-specific information such as engine power (kW), tow duration (≤ 90 mins) and proximity to the shore (within 12 nautical miles), as such information is not available in the FDI database.

Member State-specific catch fractions were provided for the majority of anticipated 2020 exceptions. Two sets of estimates were computed; i) estimates for exempted fleets for which discard sample data were provided and ii) estimates for exempted fleets for which no sample data were available, so-called 'fill-ins'. A rudimentary, but much-needed measure of quality and sampling coverage was computed for the discard estimates ('% of total landings'). The value for '% of total landings' represents the weight of landings from which the discard samples were taken, divided by the total landings from the fleet operating under each exemption.

The results are presented in section 3.5.2. Although the table of results provides the requested descriptions of discarding by exemption, in some cases, such may at best be imprecise or may not be representative of the true level of discards of the fleets fishing under each exemption. The catch fractions are estimated from sampling plans that are not designed to answer these specific exemption questions. As a result, to 'fill-in' estimates for fleets that are not sampled for discards, sample data are necessarily aggregated across strata. In doing so, many untested assumptions have to be made, such as Member State-specific variation in species naming (i.e. HOM/JAX), and spatial

aggregations (i.e. Neprops Functional units). Consequently the estimated catch fractions cannot be considered robust, but may provide a useful overview for DGMARE.

3.1.4 Review data quality checks and produce National methodological chapters

The EWG discussed the objective of the FDI database. While the "Classic FDI" data call and database was designed with a clear objective to support fishing effort regimes evaluations, the purpose and objectives for creating and maintaining the current FDI are still to be defined. The EWG requests that DG-MARE explicitly clarify the purpose and objectives of creating and maintaining the FDI database and in particular which data and how they should be disseminated to the public. While the group agrees and sees the benefits of having a database publicly available, there are concerns on how the data will be used by third parties, particularly the sampling data (discards and biological estimates). We emphasise that there is a need to manage expectations of end-users based on the resolution of the sampled data (discards, length- and catch-at-age distributions): to request data at such high levels of aggregation requires an estimation procedure that respects the sampling design and the samples available in the targeted aggregation level. Under most, present sampling designs and sampling efforts currently in place, the quality of the estimates uploaded cannot be assured, at the high level of disaggregation the STECF-FDI data call specifies. This is an extremely important point and needs to be understood by all potential users of the data. The EWG therefore proposes to investigate possible disaggregation from the sampled data by Member States to the detailed Table A by means of a designated contract issued before next year's EWG (see section 3.2.2 Recommendations from EWG).

The EWG suggests that if the FDI database is indeed required, in future, a dedicated Expert Group meeting needs to be convened simply to check the data provided by Member States in response to the FDI data call. While the EWG recognises that it is the responsibility of Member States to provide checked and validated data, there are issues that will inevitably arise for numerous reasons e.g. misinterpretation of what is being requested, coding misspecification between different databases in Member States and simple human error. Already numerous automatic checks have been implemented during and post-upload. However, there will always be a requirement for Expert checks to be undertake. Hence, the Terms of Reference for such a dedicated meeting should be restricted to aspects of checking the integrity of the database and should not include any requests for advice. Once the database has been cleared for interrogation, such requests for advice from the STECF can be put to a different Expert Group or to a follow-up to the dedicated data checking EWG. Either way, it is highly desirable that experts with an intimate knowledge of the database participate in such a EWG.

Member States sections on Methodology, Data availability, Coverage, Problems encountered and other comments are listed in Annex 2.

3.2 In the interests of establishing common best practices, identify any aspects to answering to the data call that still need a common approach to be established

3.2.1 Propose and agree practice for use of confidential data records. This includes treatment and presentation of data on the data dissemination site

The FDI data call requests data at a detailed level, therefore a field has been introduced in tables A, G, H and I that makes it possible to mark rows as confidential.

In Annex 1 of the FDI data call 2019 following is stated about confidentiality:

"Confidentiality: Tables A, G, H and I contain a field called CONFIDENTIAL. In general, it would be very difficult to identify an individual vessel activity as soon as there is more than one vessel contributing to the data of a given row. As a suggestion, data that relate to less than 3 vessels could be considered confidential."

The EWG is of the opinion that in general the following approach can be used for presenting data on the data dissemination site:

- Data that are aggregated across Member States can be published without removing the data marked as confidential as it will be impossible to isolate the confidential data.
- When publishing data at Member State level, data marked as confidential by the Member State in question should be redacted.
- Before disseminating data on the data dissemination site, it should be approved by the STECF plenary, and MS be informed by DG MARE.

Data submitted by Member States in response to the 2019 FDI data call were marked confidential for a variety of reasons. These are summarised in Table 3.2.1.1.

Table 3.2.1.1: Criteria applied to confidentiality in response to 2019 FDI data call by Member States.

Country	Confidential data was indicated in submitted 2015-2018 data (Yes/No)	Description of the criteria applied to confidentiality in response to 2019 FDI data call
France	Yes	So far, only very few data have been highlighted as being confidential because a common approach is missing. However, there are many issues related to these data where certain lines hold information for less than 3 vessels. Before any data are published (e.g. in dissemination tools), a further check is needed to identify issues based on a common agreed approach in line with European law. In addition, often not all variables are regarded as being problematic. For example, information on the value of landings or discards is more sensitive than landings. Options are missing to define in more detail what is confidential and what not.
Denmark	Yes	If less than three vessels within the aggregation level, it is marked as confidential.
Finland	Yes	Data call material includes confidential information and it is, therefore, forbidden to reveal or publish the data outside the original purpose, i.e. the FDI data call. Natural Resource Institute Finland (LUKE) is the national statistical authority. LUKE is authorized to respond to data calls and submit the requested data for the EU

		<p>expert groups. The GDPR has to be considered when the data are summarized and published. This is relevant in Finland, because the amount of fishery operators is small and classification into subgroups may violate confidentiality.</p> <p>The fundamental principle of official statistics is data protection, by which the availability of reliable basic data and the confidence of data suppliers is ensured. To be able to produce reliable statistics, the basic data obtained for the compilation of statistics must be as exhaustive as possible. This can be achieved when the data suppliers can be confident that data concerning them will be treated appropriately taking data protection needs into account.</p>
Belgium	Yes	Data were marked as confidential if the data relate to less than 3 vessels.
Latvia	Yes	All data for distant fleet was marked as confidential. Where less than 3 vessels or less than 2 companies within area mark of confidentiality was applied.
Lithuania	Yes	Where less than three vessels within area and the vessels segment mark of confidentiality is applied
Portugal	Yes	All the data that relate to less than 3 vessels was considered Confidential
Ireland	Yes	If less than three vessels in a strata (year+quarter+area+gear+vesselLength) then marked as confidential
Poland	Yes	In the period 2015-2018 Poland had 3-5 vessels fishing outside the Baltic Sea. Additionally, these vessels operate in different subregions. Due to the national statistical law it was decided to mark the data about their activity as confidential to avoid the risk of identifying a single vessel.
Netherlands	Yes	Data that relate to less than 3 vessels are considered confidential.
Italy	Confidentiality is set only in table A for value of landings in FAO 51 (IOTC)	<p>Only one vessel is fishing in area 51. Weight of landing is not confidential. Value of landing is confidential.</p> <p>The same approach is used in the AER</p>
Great Britain (Eng, NIR, SCO, GBG,	No	If data disclose personal information that can identify a living individual then this data would be considered as confidential. A vessels are not

GBJ, IOM)		people the data requested by FDI is not confidential and can be published even at vessel level as long as it does not contain vessel identifiers.
Bulgaria	No	Not applicable
Sweden	No	Not applicable
Spain	No	Not applicable
Germany	No	Not applicable
Italy	No	Not applicable
Greece	No	Not applicable

Each Member State was free to define which data to mark as confidential in tables A (catch data), G (effort data), H (landings by rectangle) and I (effort by rectangle). In the 2019 FDI data call, 10 countries have marked data as confidential. Compared to the 2018 FDI data call there were three additional countries that marked some data as confidential. Mostly, confidential data were indicated for long-distance fisheries. To clarify the criteria used by a Member State to flag some data as confidential, a questionnaire was established during the meeting. The criteria set out in table 3.2.1.1 above shows that, in most cases, the countries which marked data as confidential in response to the 2019 FDI data call, used a less than three vessel approach, indicating that national regulations are not so varied between Member States.

The EWG discussed the meaning of indemnification of confidentiality that shall apply only to a living individual. However, Article 3 "Definitions" of Regulation (EC) No 223/2009 defines "confidential data" in the following way: "Confidential data' means data which allow a statistical unit (i.e. the person, company or organisation to which the data refers) to be identified, either directly or indirectly, thereby disclosing individual information. Also, in accordance with that Regulation, statistical unit means "a basic observation unit, namely a natural person, a household, an economic operator and other undertakings, referred to by the data".

Following comments from the Member States that not all the variables are equally sensitive, and currently the confidential mark is assigned to all variables within the aggregation level, the EWG agree that it should be possible to specify which variable is confidential. This applies to table A and H where the weight of landings are often not considered confidential, while the value if landings can be confidential. It can be done either by adding extra confidentiality fields relating to the variable, or by allowing different codes in the confidentiality field to indicate what is confidential, e.g. all (A), none (N), weight (W) or value (V).

In table 3.2.1.2 below, the amount of confidential and non-confidential data are summarized for key variables in the data submitted in response to the FDI data call 2019. The high values of confidentiality of Days at Sea and Fishing days in 2018 are due to data from Greece marked as confidential in 2018.

Table 3.2.1.2: Showing the amount of confidential and non-confidential data in key variables for FDI 2019: total for all Member States.

Variables		2015		2016		2017		2018		2015 - 2018	
Units	Classification	Value	% Confidential	Value	% Confidential	Value	% Confidential	Value	% Confidential	Value	% Confidential
Days at Sea (DAS)	Not confidential	4,836,511	1.12%	6,260,745	0.94%	4,112,108	3.31%	4,042,745	46.38%	19,252,109	11.03%
	Confidential	54,187		58,959		136,000		1,875,082		2,124,228	
kW*DAS	Not confidential	704,957,433	10.32%	847,099,644	10.85%	724,316,432	12.91%	859,185,979	13.59%	3,135,559,488	11.96%
	Confidential	72,775,162		91,919,078		93,531,135		116,799,994		375,025,369	
Gt*DAS	Not confidential	327,699,121	18.35%	375,755,687	21.29%	346,054,509	19.93%	350,186,363	16.34%	1,399,695,680	19.03%
	Confidential	60,134,156		79,984,089		68,960,495		57,226,741		266,305,481	
Fishing DAS	Not confidential	4,905,190	1.92%	6,439,455	1.57%	4,213,651	4.00%	4,271,228	44.84%	19,829,524	11.49%
	Confidential	94,389		101,155		168,409		1,915,014		2,278,967	
kW* Fishing DAS	Not confidential	874,912,557	24.46%	1,095,328,217	24.26%	909,684,018	18.61%	1,125,492,696	19.44%	4,005,417,488	21.67%
	Confidential	213,986,704		265,689,218		169,269,970		218,834,672		867,780,564	
Gt* Fishing DAS	Not confidential	480,774,209	41.63%	375,755,687	21.29%	346,054,509	19.93%	350,186,363	16.34%	1,552,770,768	26.17%
	Confidential	200,138,036		79,984,089		68,960,495		57,226,741		406,309,361	
Hours at sea	Not confidential	40,815,370	2.03%	41,257,488	2.30%	42,762,290	2.12%	48,636,615	1.76%	173,471,763	2.04%
	Confidential	829,593		946,888		906,565		855,030		3,538,077	
kW* Hours at sea	Not confidential	13,525,404,627	11.21%	14,203,948,557	13.56%	14,169,346,400	10.59%	17,504,083,655	6.51%	59,402,783,239	10.24%
	Confidential	1,516,009,631		1,926,130,123		1,500,198,620		1,140,204,839		6,082,543,212	
Gt* Hours at sea	Not confidential	4,496,893,158	29.23%	5,245,037,158	33.27%	5,122,700,831	26.23%	7,234,666,693	13.11%	22,099,297,840	24.22%
	Confidential	1,314,572,915		1,745,023,568		1,343,859,216		948,461,484		5,351,917,183	
Landings tonnes	Not confidential	4,742,941	9.34%	4,675,904	9.31%	4,807,321	11.66%	4,902,864	8.18%	19,129,031	9.62%
	Confidential	442,961		435,256		560,400		400,899		1,839,515	
Landings value (EUR)	Not confidential	5,406,369,427	6.97%	5,897,753,301	8.18%	5,682,086,081	8.40%	6,477,568,037	6.40%	23,463,776,846	7.46%
	Confidential	376,806,688		482,278,595		477,551,586		414,592,666		1,751,229,535	
Discards tonnes	Not confidential	206,169	3.00%	202,476	2.40%	181,847	9.49%	221,895	13.70%	812,387	7.22%
	Confidential	6,176		4,853		17,255		30,398		58,681	

In table 3.2.1.3 below, the sub-regions where more than 50 percent of the landings are marked as confidential are listed. In table 3.2.1.4 the sub-regions where more than 50 percent of the value of landings are marked as confidential are listed.

Table 3.2.1.3: Areas where confidential data exceed 50 percent of total by weight of landings.

Area	2015	2016	2017	2018
47.1	61.06		61.81	58.18
51.7			50.88	
87.2	64.98			
87.3		99.97		
27.14.A		93.09		
27.5.B		57.65	56.01	60.49
27.7.K			50.4	
34.1.3		56.81	74.32	70.6
GSA14	68.34	98.24		
GSA15	70.28	71.59		
GSA21				51.33
GSA5		57.38	60.82	66.09

Areas where confidential data exceeded 50 percent of total by landings

Table 3.2.1.4: Areas where confidential data exceed 50 percent of total by value of landings.

Area	2015	2016	2017	2018
27.12		100	92.84	52.62
41.2	100	100	84.1	
41.3	100	100	100	
47.1	100	100	100	
51.4				100
51.5				100
51.7		54.52		
51.8	100	100	52.8	
57.3	100	100	100	
71		100		
77	100		100	100
81	100	100	100	
87.1	100	100	100	
87.2	100	100	100	
21.6H			100	
27.14.A		100		
27.8.E	58.5			72.23
34.1.1	99.52		100	
34.1.3		67.62	87.6	73.31
34.2.0	65.64		83.96	
34.3.1			55.5	81.6
34.3.2	100			
34.3.3	100			
34.3.4		100		
34.4.1		100	100	
34.4.2	100			
47.A	100	100	100	
47.B	92.92	100	100	
47.C	100			
GSA14	77.51		59.64	
GSA15	69.62	67.49	50.4	55.83
GSA21			58.46	78.72
GSA24			68.02	
GSA5	59.4	67.53	68.56	71.28

Areas where confidential data exceeded 50 percent of total by value

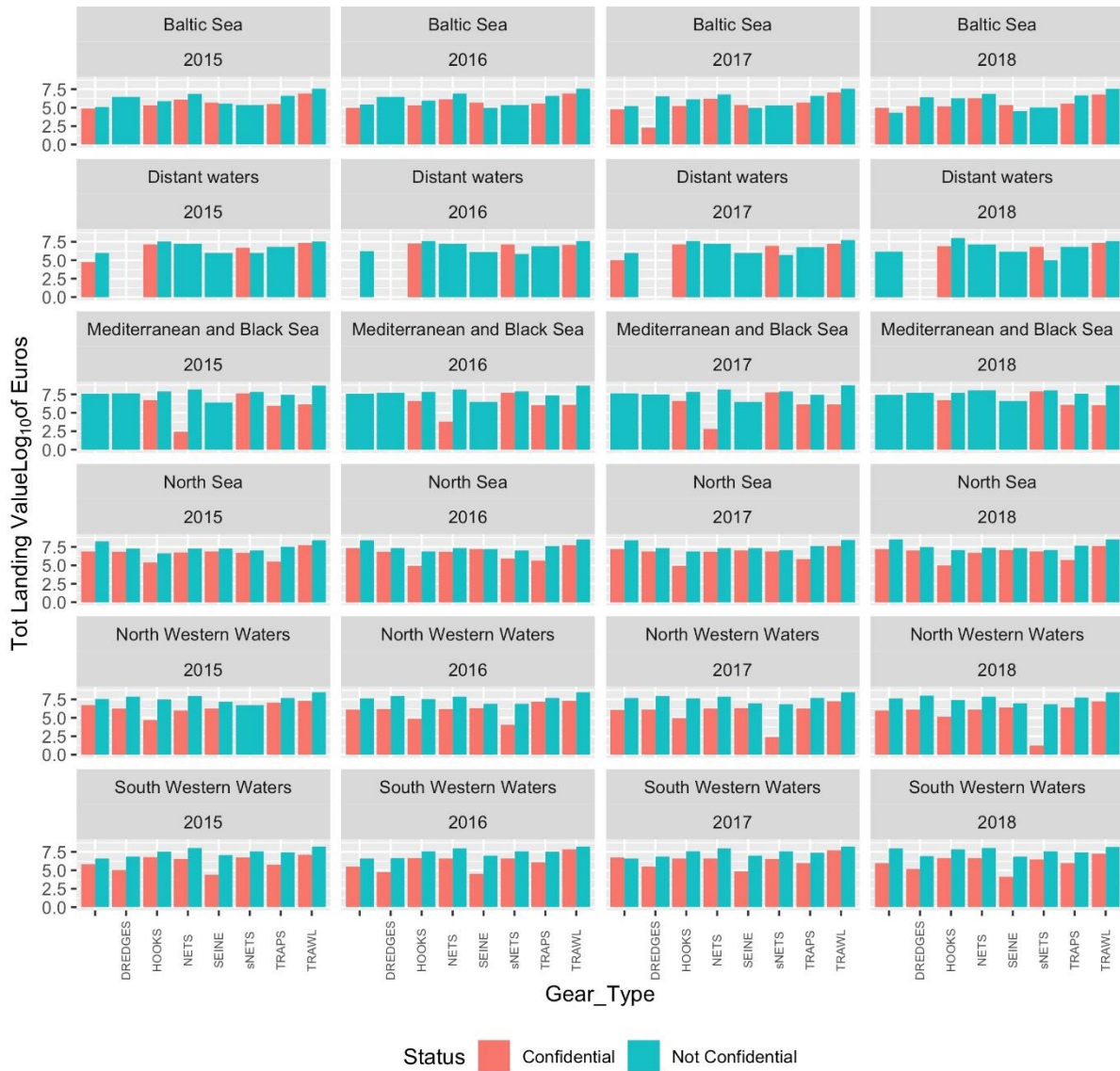
The figures 3.2.1.1 to 3.2.1.8 below show that a substantial part of the data submitted have been marked as confidential.

Table A - Landing



Figure 3.2.1.1: Weight of landings (tonnes) from table A marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table A - Landing Value



+

Figure 3.2.1.2: Value of landings (EUR) from table A marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table H - Number of csquares



Figure 3.2.1.3: Number of c-squares from table H marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table H - Number of records



Figure 3.2.1.4: Number of records from table H marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table H - Landings



Figure 3.2.1.5: Weight of landings from table H marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table I - Number of csquares



Figure 3.2.1.6: Number of c-squares from table I marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table I - Effort



Figure 3.2.1.7: Effort (fishing days) from table I marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

Table I - Number of records



Figure 3.2.1.8: Number of records from table I marked as confidential (red bars) and not confidential (blue bars) by region and year for the period 2015-2018.

3.2.2 Review MS methodology applied when deriving Table A from biological sampling programs

Methods used for partitioning of discards and landings into Table A

The length and age distributions for landings (Tables E and F) and discards (Tables C and D) are based on scientific estimations carried out at National level, based on the data collected under the Data Collection Framework. The discards estimations were then partitioned across the categories in Table A, by each MS. Each MS were free to choose the criteria used to perform the partitioning and Table 3.2.2.1 summarises the different methodologies used by each MS for partitioning the discards across categories.

Table 3.2.2.1. Summary table with how MS do the partition

Country	Method
Belgium	The discard ratio (discards/catch) were applied to the landings for the combination of year, metier, sub-region and species.
Bulgaria	Only official discards were provided in Table A (only zeros provided).
Croatia	No methodologies were provided
Cyprus	No methodologies were provided
Denmark	Partitioning of discards proportionally to the landings for combination of year, quarter, vessel length category, metier, domain_discards, sub-region and species. When no landings are reported, the partitioning of discards are proportionally proportion of effort (days at sea).
Estonia	Only official discards were provided in Table A.
Finland	No methodologies were provided
France	Partitioning of unwanted catches proportionally to the landings for combination domain and species.
Germany	Partitioning of discards proportionally to the landings for combination domain and species.
Greece	The discard ratio (expressed as discards/catch) were applied to the landings for combination of year, sub-region, quarter, métier, vessels length category and species.
Ireland	The discard rate (kg/h) were applied across selected strata (vessel_length; mesh, fishery; specon) based on the effort (fishing hours) in each of these strata.
Italy	Partitioning of discards proportionally to the landings for combination domain and species.
Latvia	Partitioning of unwanted catches proportionally to the landings for combination domain and species.
Lithuania	Partitioning of discards proportionally to the landings for combination domain and species.
Malta	No methodologies were provided
Poland	Partitioning of unwanted catches proportionally to the landings for combination domain and species.
Portugal	Partitioning of discards proportionally to the landings for combination domain and species.
Romania	No methodologies were provided
Slovenia	No methodologies were provided

The Netherlands	Partitioning of discards based on the number of unique rows within the domain.
UK - Scotland	Partitioning of discards proportionally to the landings for combination domain and species.
UK - England and Wales	Partitioning of discards proportionally to the landings for combination domain and species. When no landings are reported, the partitioning of discards are proportionally proportion of effort (days at sea).
Spain	Partitioning of discards proportionally to the landings for combination metier and species.
Sweden	Partitioning done proportionally to the variable used for the raising (i.e. landings of target species in the fishery or fishing hours, depending on the fishery). Proportion of landings of the same species was not used for the partitioning of unwanted catch unless the species was a target species.

When responding to the 2019 STECF-FDI data call Member States (MS) encountered a number of issues while trying to populate Table A with discard information. This process require the partitioning of unwanted catches from Tables C and D to Table A. Several MS were unable to perform the partition, while others provided only official unwanted catches, and in some case a combination of official and scientific estimates. Consequently, the discard amounts in Table A were missing and/or not comparable across MS or fisheries. The EWG tackled this issue by clarifying the language in the data call, and providing examples of the methodology applied by MS who succeeded in populating Table A. As a result, most of the Member States were able to perform the partition of discards from Tables C and D to Table A for the 2019 data call.

However, the EWG continues to emphasise the risks for serious bias during this partitioning process, which can result in statistically unsound and erroneous discard estimates. The sampling data reported in Table C and D is collected under sampling schemes designed for other purposes, and are not designed to provide estimates at the level of disaggregation required in Table A. Therefore, calculating discard estimates for Table A in this manner may be impossible, or worse, could produce estimates which are biased or statistically unsound. The EWG understands the value in data dissemination, however emphasises the need to manage the expectations of the data users by stating clearly that the high level of disaggregation in Table A is not supported by the data collection schemes in place.

Recommendations from EWG:

- **Dissemination Disclaimer:**
The EWG extensively discussed if and how the discards from Table A should be made publicly available through the STECF dissemination tool. Despite the major concern raised by the experts and national data submitters, the group understands that the **discards information available in Table A are of major importance for the EWG, DG-MARE and STECF. Therefore, the group agreed that despite the limitations of this year’s data, the discards data presented in Table A should be made publicly available in the dissemination tool.** However, the group recommended to add a disclaimer at the top of the “EU Catches” tab in the dissemination tool highlighting the limitations of the data (see Table 3.4.1.1 in Section 3.4.1).

- **Investment in quality control:**

The EWG recognises the value of the FDI database as a central repository for all European fishing effort. However, this level of complexity requires dedicated expert time and effort to ensure that intra and inter-annual quality control is maintained, and improved. This work cannot be done in isolation at a MS level. To be effective, this work must be completed by fisheries experts once all MS data is combined, providing a European level overview of quality and trends. Only then, can bias be identified, and major issues resolved.

The EWG strongly recommends that annually two FDI meetings are held. The first meeting would be dedicated to the review of data quality and completeness. This first meeting would also provide a platform to explore and develop the methodologies used to estimate and dissemination scientifically robust information, i.e. discard and biological (age and length) data. Therefore leaving the second meeting to answer the ToRs set out by the Commission.

- **Investment in data dissemination techniques:**

Annually much of the EWGs limited time is consumed with tackling the ever-growing issue of data dissemination, and the utility/usability for varying end-users needs. The EWG is dedicated to the dissemination of data for which the quality, origin and coverage are evident. Therefore, affording the end user (commission/MS/public) every opportunity to utilise the data in a way that is fitting and reflective of the nature of fisheries. To ensure that the EWG can achieve this annual dissemination goal in an effective way there is a need for intersessional work, which can inform and direct discussion on the subject. Ultimately providing a mechanism that can improve data dissemination and alleviate EWG and MS concerns about data quality and misuse.

To increase efficiency and ensure the objectives are delivered, the EWG proposes an *ad-hoc* contract to develop a suite of methodologies for dissemination. These methodologies will provide a visual and/numerical indication of estimate robustness and coverage. These methodologies can then be discussed and reviewed during the first FDI meeting in 2020. Due to limited resources and time, it was not possible to achieve it at this year's meeting.

3.2.3 *Discuss other issues that are relevant to the FDI data call and where possible conclude on a common approach to be used*

During this year meeting the EWG raised several issues that need to be addressed for next year data call, in order to improve the data, clarity and completeness of the data call. Bellow we list the recommended changes and recommended fields to next year data call:

1. In order to improve the data and information for the *Nephrops* stocks, the group agreed that the data should distinguish the different Functional Units (FUs), in Tables A, C, D, E and F. To capture this information it is suggested to add an extra column called "NEP_SUB_REGION" to tables A, C, D, E and F. The statistical rectangles, which identify these FU's, are outlined in the table below.
2. One of the objectives of ToR5 was to calculate the discards/landings under and above Minimum Conservation Reference Size (MCRS). However, due to the lack of information on Mean weight at length in Tables D and F was only possible to provide the percentages in number. To overcome the immediate need to answer ToR 5 this year, the LW parameters were obtained from Fishbase. The EWG recommends to add a column in Tables D and F with MEAN_WEIGHT_AT_LENGTH and WEIGHT_UNIT (kg = kilogram, g = gram).

3. The group agreed that it would be useful to add a table to the data call, with discards amounts by domain, as proposed below. The rationale for requesting an extra table for the FDI data call, is that all discards estimates should be provided at the domain level (DOMAIN_DISCARDS). Tables C and D only hold discards estimates for which length and/or age data are provide. However, some MS have discards estimates for which no biological sampling is done and are provided to Table A. If the proposed table is not feasible, it has to be made clear on next year datacall, that discard estimates should be added to tables C and D even no sampling is performed, with the sampling related fields as "NK.

Table 3.2.3.1. Proposed table to summarise Discards estimated by Domain.

COUNTRY	According with code list
YEAR	Four digits
DOMAIN_DISCARDS	Text in format specified in Appendix 8
SPECIES	According to the FAO 3 alpha code list
Discards	Estimated discards in tonnes [precision to 3 digits after decimal]
NO_TRIPS_SAMPLED_WITH_SPECIES	Number of trips the species was sampled/observed
NO_TRIPS_SAMPLED	Number of trips sample at this level

Suggested addition to appendix 9 of the data call: Area coding

Nephrops sub-regions:

NEP_ SUB_REGION	SUB_REGION	FU	Statistical Rectangles
27.3.a.FU3	27.3.a	3	44F7, 45F7, 43F8, 44F8, 45F8, 43F9, 44F9, 45F9, 46F9, 45G0, 46G0, 47G0, 48G0, 46G1, 46F8, 47F9, 47G1
27.3.bc.FU3	27.3.bc	3	44G0, 45G1
27.3.a.FU4	27.3.a	4	41G1,43G2
27.3.bc.FU4	27.3.bc	4	42G0, 43G0, 42G1, 43G1, 44G1, 41G2, 42G2
27.4.b.FU5	27.4.b	5	36F1, 37F1, 36F2, 37F2, 36F3, 37F3, 36F4, 37F4
27.4.c.FU5	27.4.c	5	35F2, 35F3,
27.4.b.FU6	27.4.b	6	38E8, 39E8, 40E8, 37E9, 38E9, 39E9, 40E9
27.4.a.FU7	27.4.a	7	45E8, 46E8, 44E9, 45E9, 46E9, 47E9, 48E9, 49E9, 44F0, 45F0, 46F0, 47F0, 48F0, 49F0, 44F1, 45F1, 46F1, 47F1, 48F1, 49F1
27.4.b.FU8	27.4.b	8	41E6, 40E7, 41E7
27.4.a.FU9	27.4.a	9	44E6, 45E6, 44E7, 45E7, 44E8
27.4.a.FU10	27.4.a	10	47E6
27.6.a.FU11	27.6.a	11	44E3, 45E3, 46E3, 44E4, 45E4, 46E4
27.6.a.FU12	27.6.a	12	41E2, 42E2, 43E2, 41E3, 42E3, 43E3, 41E4, 42E4, 43E4
27.6.a.FU13	27.6.a	13	39E4, 40E4, 39E5, 40E5
27.7.a.FU14	27.7.a	14	38E5, 35E6, 36E6, 37E6, 38E6
27.7.a.FU15	27.7.a	15	36E3, 35E4, 36E4, 37E4, 38E4, 35E5, 36E5, 37E5

27.7.k.FU16	27.7.k	16	31D5, 32D5, 33D5, 31D6, 32D6, 33D6, 32D7, 33D7, 34D8, 35D8
27.7.c.FU16	27.7.c	16	34D5, 35D5, 34D6, 35D6, 34D7, 35D7
27.7.j.FU16	27.7.j	16	32D8, 33D8
27.7.b.FU17	27.7.b	17	34D9, 35D9, 34E0, 35E0
27.7.j.FU19	27.7.j	19	31D9, 32D9, 33D9, 31E0, 32E0, 33E0
27.7.g.FU19	27.7.g	19	31E1, 32E1, 32E2
27.7.a.FU19	27.7.a	19	33E2, 33E3
27.7.g.FU2021	27.7.g	20-21	28E1, 29E1, 30E1, 29E2, 30E2, 31E2, 30E3
27.7.h.FU2021	27.7.h	20-21	28E2
27.7.g.FU22	27.7.g	22	31E3, 32E3, 31E4, 32E4
27.7.a.FU23	27.7.a	23	22E5, 23E5, 24E5, 22E6, 23E6, 24E6, 22E7, 23E7, 24E7
27.7.a.FU24	27.7.a	24	21E6, 21E7, 21E8
27.7.b.FU24	27.7.b	24	20E7, 19E8, 20E8
27.8.c.FU25	27.8.c	25	15E0, 15E1, 16E1
27.9.a.FU26	27.9.a	26	13E0, 14E0, 13E1, 14E1
27.9.a.FU27	27.9.a	27	06E0, 07E0, 08E0, 09E0, 10E0, 11E0, 12E0, 09E1, 10E1, 11E1, 12E1
27.9.a.FU28	27.9.a	28	03E0, 04E0, 05E0, 03E1, 04E1, 05E1
27.9.a.FU29	27.9.a	29	02E0, 02E1; 02E2
27.9.a.FU30	27.9.a	30	02E2, 03E2, 02E3, 03E3
27.8.c.FU31	27.8.c	31	16E4, 16E5, 16E6, 16E7
27.4.a.FU32	27.4.a	32	44F2, 45F2, 46F2, 47F2, 48F2, 49F2, 50F2, 51F2, 52F2, 44F3, 45F3, 46F3, 47F3, 48F3, 49F3, 50F3, 51F3, 52F3, 44F4, 45F4, 46F4, 47F4, 48F4, 49F4, 50F4, 51F4, 52F4, 44F5, 45F5, 46F5, 47F5, 48F5, 49F5, 50F5, 51F5, 52F5, 44F6, 45F6, 46F6, 47F6, 48F6, 49F6, 50F6, 51F6, 52F6
27.4.b.FU32	27.4.b	32	43F5, 43F6, 43F7
27.4.b.FU33	27.4.b	33	39F5, 40F5, 41F5, 39F6, 40F6, 41F6
27.4.b.FU34	27.4.b	34	41F0, 42F0, 43F0, 41F1, 42F1, 43F1
27.4.OUTFU	27.4	Out	Any statistical rectangle not identified above as NEP caught outside an F U
27.6.OUTFU	27.6	Out	Any statistical rectangle not identified above as NEP caught outside an F U
27.7.OUTFU	27.7	Out	Any statistical rectangle not identified above as NEP caught outside an F U
27.8.c.OUTFU	27.8.c	Out	Any statistical rectangle not identified above as NEP caught outside an F U
27.9.a.OUTFU	27.9.a	Out	Any statistical rectangle not identified above as NEP caught outside an F U

3.3 Test the compatibility between the data collected in the FDI database and the data collected in the Mediterranean and Black Sea database

In order to evaluate if the two databases were compatible, the EWG was requested to compare data collected in the FDI database and the data collected in the Mediterranean and Black Sea database. The EWG used the same R scripts implemented by STECF18-11 last year, slightly changed to take into account the changes in the 2019 FDI formats.

All the resulting plots comparing the two data calls are shown in the Annex 4.

The comparison resulted in the following results:

a. *Codes used in the FDI and Med&BS data calls (e.g. gear type, vessel length, metier, etc.).* The codes used in the 2019 data calls are much more homogenous compared to last year, thanks to the changes in the 2019 Mediterranean and Black Sea data calls implemented by JRC on the basis of the results of the same exercise carried out in the STECF 18-11.

b. *Sums of effort (kWdays-at-sea, GTdays-at-sea, fishing days) at the level of country-year-GSA area-gear type.* EWG compared data held in Table G 'Effort summary' of the FDI database with data in Table D 'Fisheries effort data' of the Mediterranean and Black Sea database. The results of the comparison have been rather good for all GSAs and show an improvement in 2018 data. Some inconsistencies are still present for some métiers (see Annex 4). It was not possible to

carry out the exercise for the effort data for Spain for 2018 because in FDI sub_regions have not been reported.

c. *Sums of landings (tonnes) and sum of discards (tonnes) at the level of country-year-GSA area-gear type.* EWG compared data held in Table A 'Catch summary' of the FDI database and in Tables B 'Fisheries landings at length data' and C 'Fisheries discards at length data' of the Mediterranean and Black Sea database. Comparison has been restricted to the species contained in Annex 1, Appendix 1.7 of the Med&BS data call. The results of the comparison are different among MSs/GSAs and métier, being very good in several cases. EWG randomly checked the level of homogeneity at stock level for some Italian GSAs; these checks confirm that the data are the same at the stock level. Differences at the métier level can be explained by the fact that, for some GSAs, MS reported in the Med&BS data call only stocks for which biological samples are available (even if in the 2019 Med&BS data call request to upload landings data for all stocks and métiers, regardless if they have been sampled or not).

d. *Numbers at length at the level of country-year-GSA area-gear type.* EWG compared data held in Tables F MBS 'Landings length data' and D MBS 'Discards length data' of the FDI database and in Tables B 'Fisheries landings at length data' and C 'Fisheries discards at length data' of the Mediterranean and Black Sea database. Comparison has been restricted to the species contained in Annex 1, Appendix 1.7 of the Med&BS data call. The results of the comparison are reported in the Annex 4.

Conclusions

From the comparisons performed, it is apparent that the two data sets are still not fully matching, but the level of homogeneity greatly increased for 2018 data thanks to the improvements made in 2019 data calls on the reference codes and on the variables requested (e.g. there are no longer different definitions used for "Discards" and "Unwanted Catch" estimates).

It should be stressed that the same fisheries data (fishing effort (days at sea and fishing days), total weight of landings by species) and biological estimates (discards, length and age distributions) are requested in both the Med&BS and FDI data calls.

EWG concludes that the two data sets are entirely consistent regarding effort and biological data and therefore MSs should not be requested send the same information twice in the same period of the year with different formats.

EWG evaluated pros and cons of switching from the Med&BS data call to the FDI data call, and highlighted the following issues:

- 1) In order to run stock assessments at the beginning of September, the final dataset must be available by the end of August
- 2) According to point 1) the STECF handling procedures (legal and operational deadlines) should be reviewed and revised. This year the deadlines have been: MED: 25 June – 9 August and BS 20 -30 August
- 3) If FDI data (including biological data) are to be published they will be treated as "official" and available to be used by any end user. However, during STECF Stock Assessment (SA) EWG the quality checks are performed at higher details (stock level) compared to FDI checks. This different approach in quality checks (FDI more general and SA focusing on stocks to be assessed) may result in mismatch in terms of data issues that are reported in the DTMT.
- 4) If Med&BS data call does not call for fishery dependent information, there is a need for an EWG to quality check the Med&BS biological data. Should it be the FDI group? If yes, when it has to be scheduled (see point 1)?
- 5) If Med&BS data call does not call for fishery dependent information, a lot of scripts and tools already developed in the framework of DGMARE (funded) projects (e.g. STREAM, RECFISH) or at MS level to check Med&BS data according to Med&BS format could become redundant.
- 6) To avoid that experts have to deal with 2 different datasets during stock assessment EWGs, FDI data should be reshaped according to Med&BS format. By who? And when?

7) Currently Med&BS ask only for one year's data (from the previous year). However, MS' can still re-upload several previous year's data on the express authority of DGMare. In such cases, should MSs re-upload using FDI or Med&BS dat call format?

Based on these issues, the EWG suggests two alternative approaches:

Proposal 1 - drop from FDI the Med&BS biological data (Table C, D, E, F). FDI should call for Table A, B, G, J and spatial data (tables H&I) while Med&BS would be kept as it is avoiding to call effort data (Table D. Fishing effort data). This proposal seems to be preferable, because the Med&BS is a consolidated call that runs very well at the moment. Such changes could eventually have an impact on stock assessment exercises (a priority for DGMARE).

The proposals are summarized in the table below.

Variables	FDI data call	Med&BS data call	AER data call
Effort by fleet segment and by métier	Table G	no	no
Capacity by fleet segment and by gear type	Table J	no	YES: cluster name is needed
Effort by GFCM grid	Table H	no	no
Landings by GFCM grid	Table I	no	no
Landings (weight and value) by fleet segment and by métier	Table A	no	no
Discards by métier/species, by length and by age	no	Table A,C	no
Landings by métier/species, by length and by age	no	Table A,B	no

In order to allow a perfect alignment among the information provided in the different data calls, EWG also suggests to:

- Include a column in table J of the FDI data call which ask for the principal "sub_region" (i.e. GSA) where the vessel has his majority fishing activity during the year. The name of this column could be "PRINCIPAL_SUB_REGION" avoiding to double-count vessels fishing in more than one "sub_region" during the year,
- Ask Med MS to provide economic data in the economic data call at this same level of disaggregation of principal "sub_region" (i.e. GSA) and not only at national level, if this level of aggregation is available.

Proposal 2: pending all the issues listed above, drop commercial data and effort from MED&BS (it will call survey and biological parameters only). This proposal could only become effective if points listed above will be solved. In addition, EWG suggests that, before deleting biological data from Med&BS data call, detailed checks at stock level (priority species) should be ensured, for example comparing length distributions at stock level.

3.4 Produce maps of spatial effort and landings by c-squares

3.4.1 Discuss and agree possible format of dissemination tables based on FDI data collected (considering confidentiality issues)

The FDI data call collects a valuable dataset covering the fisheries for all EU Member States. The data dissemination tool published at the JRC website has valuable information and for the Fisheries Dependent Information classic publishing data covering the period 2003-2016. After the FDI data call changed format in 2018 the data dissemination tool has not been updated because the confidentiality issue needed to be resolved. Additionally data dissemination was structured by Annex from the Cod Recovery plan which has been superseded. As such a new data dissemination format needs to be defined therefore proposal for a new formats for FDI dissemination tables are suggested in Table 3.4.1.1 below.

As partially covered in Section 3.2.2, the EWG agreed and strongly recommends the requirement to have a second meeting earlier in the year (possibly July) or a workshop dedicated to develop and agree on a methodology on the best way to have the data provided to the FDI data call (effort, landings, discards and biological and capacity) publicly available in the dissemination tool **maintaining the scientific robustness of the estimates, confidentiality, but also considering the utility and usability of the data for the different end-users needs.** The EWG considers that in order to have the best quality sampling data (discards and biological data) publicly available extensive work needs to be developed and agreed across experts, which due to limited resources and time, was not possible to achieve at this year meeting.

Together with the data dissemination, there should be a link to the FDI report and relevant disclaimers concerning the data. The EWG propose the disclaimers related to the tables in table 3.4.1.1 below.

Table 3.4.1.1: Proposed data for publication on the JRC data dissemination site.

Table	Categorical fields	Value fields	Disclaimer
EU catches (aggregated over all Member States) In Pacific ocean (71, 77, 81, 87 and 88) and Indian ocean (51 and 57) aggregate to ocean.	Year, quarter, vessel length category, fishing technique, gear type, target assemblage, mesh size range, metier, supra-region, sub-region, EEZ indicator, Geo indicator, specon, deep, species	Total live weight landed (tonnes), total value of landings (EUR), total discards (tonnes)	Discards amounts in this table are scientific discards estimates based on National sampling programmes that do not support the level of disaggregation on this table. The quality of discards estimates cannot be assured and should be used with caution, as these estimates might be uncertain and biased. In the Pacific ocean regions 71, 77, 81, 87 and 88 are grouped. In the Indian ocean regions 51 and 57 are grouped.

Table	Categorical fields	Value fields	Disclaimer
<p>Catches by Member State (excluding confidential records)</p> <p>In Pacific ocean (71, 77, 81, 87 and 88) and Indian ocean (51 and 57) aggregate to ocean.</p>	<p>Member State, year, quarter, vessel length category, fishing technique, gear type, target assemblage, mesh size range, metier, supra-region, sub-region, EEZ indicator, Geo indicator, specon tech, deep, species</p>	<p>Total live weight landed (tonnes), total value of landings (EUR) total discards (tonnes).</p> <p>Value of confidential records marked with "c".</p>	<p>Discards amounts in this table are scientific discards estimates based on National sampling programmes that do not support the level of disaggregation on this table. The quality of discards estimates cannot be assured and should be used with caution, as these estimates might be uncertain and biased. In the Pacific ocean regions 71, 77, 81, 87 and 88 are grouped. In the Indian ocean regions 51 and 57 are grouped.</p>
<p>EU effort (aggregated over all Member States)</p> <p>In Pacific ocean (71, 77, 81, 87 and 88) and Indian ocean (51 and 57) aggregate to ocean.</p>	<p>Year, quarter, vessel length category, fishing technique, gear type, mesh size range, target assemblage, metier, supra-region, sub-region, EEZ indicator, Geo indicator, specon, deep</p>	<p>Total days at sea, total kW days at sea, total GT days at sea, tot fishing days at sea, tot fishing kW days at sea, tot fishing gt days at sea, hours at sea, kW hours at sea, GT hours at sea</p>	<p>In the Pacific ocean regions 71, 77, 81, 87 and 88 are grouped. In the Indian ocean regions 51 and 57 are grouped.</p>
<p>Effort by Member State (excluding confidential records)</p> <p>In Pacific ocean (71, 77, 81, 87 and 88) and Indian ocean (51 and 57) aggregate to ocean.</p>	<p>Member State, Year, quarter, vessel length category, fishing technique, gear type, target assemblage, mesh size range, metier, supra-region, sub-region, EEZ indicator, Geo indicator, specon tech, deep</p>	<p>Total days at sea, total kW days at sea, total GT days at sea, tot fishing days at sea, tot fishing kW days at sea, tot fishing gt days at sea, hours at sea, kW hours at sea, GT hours at sea</p> <p>Value of confidential records marked with "c".</p>	<p>In the Pacific ocean regions 71, 77, 81, 87 and 88 are grouped. In the Indian ocean regions 51 and 57 are grouped.</p>
<p>Capacity by Member State</p>	<p>Member State, year, vessel length category, fishing tech, supra-region, geo indicator</p>	<p>Total trips, total kW engine power, total GT, total vessels, average age, average overall length, maximum sea days</p>	

Table	Categorical fields	Value fields	Disclaimer
EU Landings by c-square (aggregated over all Member States) Without data marked as confidential from Portugal in distant waters	Year, quarter, vessel length category, fishing technique, gear type, mesh size range, target assemblage, metier, supra-region, sub-region, specon, deep, ICES rectangle/GFCM grid, c-square, species	Total live weight landed (tonnes), total value of landings (EUR).	Data marked as confidential by Portugal are excluded.
EU Effort by c-square (aggregated over all countries) Without data marked as confidential from Portugal in distant waters	Year, quarter, vessel length category, fishing technique, gear type, mesh size range, target assemblage, metier, supra-region, sub-region, specon, deep, ICES rectangle/GFCM grid, c-square	Fishing days	Data marked as confidential by Portugal are excluded.

The suggestions in the table above do not include the biological data reported in tables C, D, E and F. The EWG suggests that biological data (age/length) are not published in the data dissemination tool in 2019, as the method for combining the biological parameters in tables C, D, E and F with table A into a format that is published needs further consideration. The EWG suggest that it will be a ToR for the EWG-FDI meeting in 2020.

3.4.2 Produce maps of effort and landings by c-square for the following regions (as defined in COM-2016-134 for areas other than 'distant waters') and major gear types (as defined in the data call)

- a) Baltic; North Sea; North Western Waters; South Western Waters; Mediterranean and Black Sea; Distant waters⁴
- b) Trawls (except beam trawls) with mesh < 100mm; trawls (except beam trawls) with mesh ≥ 100mm; beam trawls with mesh < 120mm; beam trawls with mesh ≥ 120mm; seine nets; gillnets and entangling nets; dredges; hooks and lines; surrounding nets; pots and traps.

The first step of spatial data analysis was to ensure that data is in the correct format and information provided is consistent across variables. Due to the change in the data call format the validation procedure implemented on the previous EWG FDI meeting had to be modified. The main change in the geographical format required this year was the addition of a new variable: the **c-square** code. According to the FDI data call specification, spatial data on landings and effort (tables H and I) must be submitted using one of the following notations:

- C-square code at 0.5x0.5 degree resolution, or:
- Latitude and longitude of a rectangle together with a the its dimensions in decimal degrees:

⁴ Defined here as waters not covered by the areas previously listed.

- *0.5*0.5*, corresponding to a c-square,
- *0.5*1*, corresponding to an ICES rectangle,
- *1*1* for ICCAT squares,
- *5*5* for IOTC squares.

In order to accommodate for the different geographical formats allowed, the geographical data validation process adopted last year was extended to include three additional checks described in the next paragraphs.

Some countries provided records containing both the **c-square code and coordinates**, the validation routine checked the compliance of c-squares notation with the geographical coordinates submitted. Other countries reported **only c-square notation**; these records were verified against a list of all valid 0.5x0.5 c-square codes.

The third type of checks was applied on records that contained **only coordinates and the type of rectangle**. The validation routine for these records calculated the remainder of the division and verified that the coordinates indicated were the the geographical center of the rectangle/square indicated in the rectangle type field.

The spatial data subgroup suggests that these checks could be incorporated into the FDI data call uploading tools. Additionally, it is suggested that the rectangle type should be a mandatory information in the next data call, to limit confusion during the conversion to spatial.

Additional checks were implemented to identify points that were outside the globe and on land. To perform the point in polygon operation needed to identify points on land a new c-square data set containing indication on the type of c-square (sea, land, and coast) was created and made available for download.

After the initial data were validated, and the records with errors were omitted; the spatial data sets were created by aggregating the individual records of Table I and Table H at the following level:

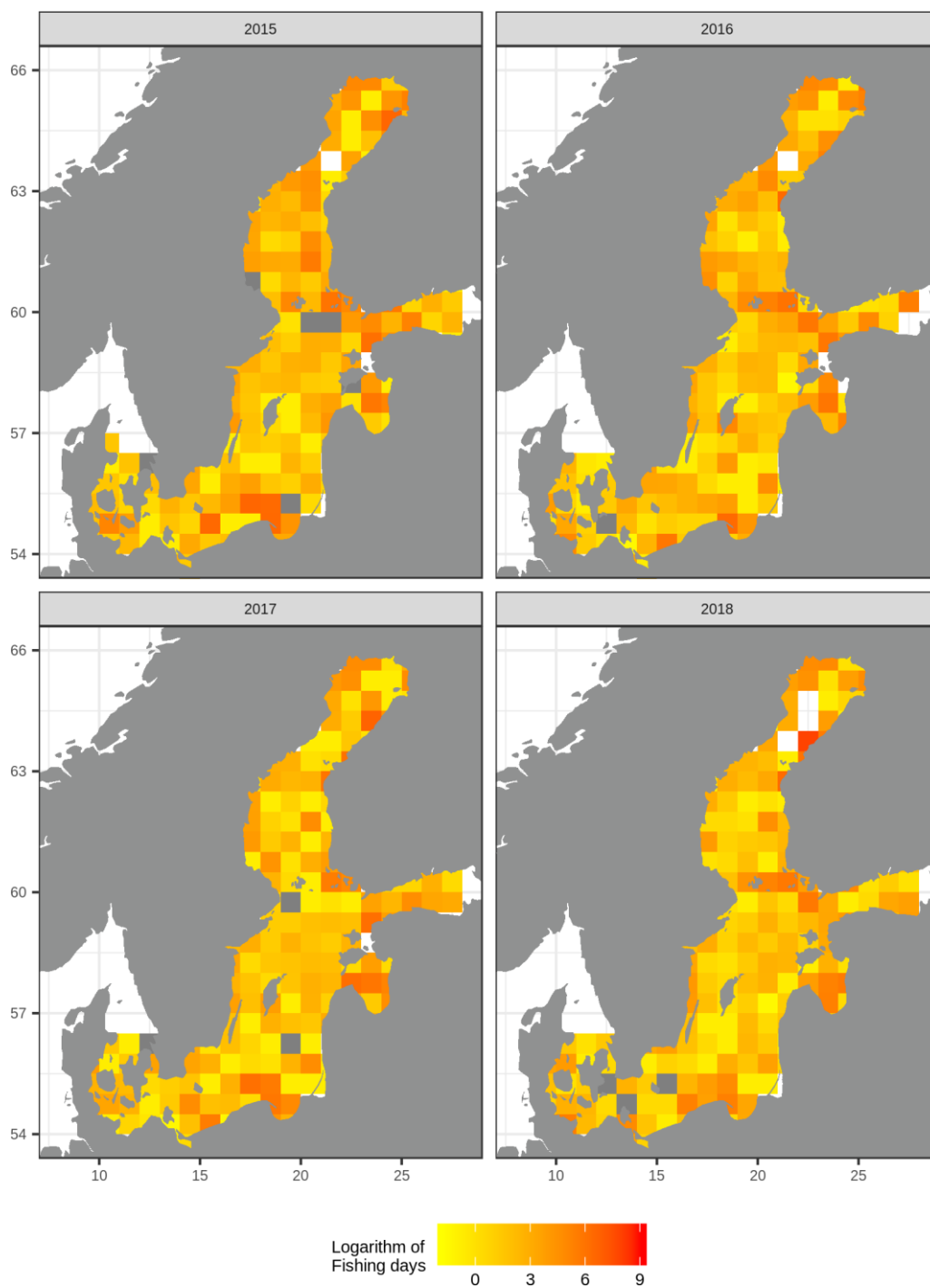
Country, Year, Quarter, Macro-gear, Confidentiality, Specon, Sub region, Fishing zone, ICES Rectangle, value (effort/landings) and c-square code

The aggregated spatial landings and spatial effort data sets were utterly cleaned all the records were there was no indication of the **Sub region**, and where there was a wrong unit of measurement for landings. Please refer to the Annex for additional maps and a recap on the errors. The maps following are for main Fishing Zone and Macro-gear as required.

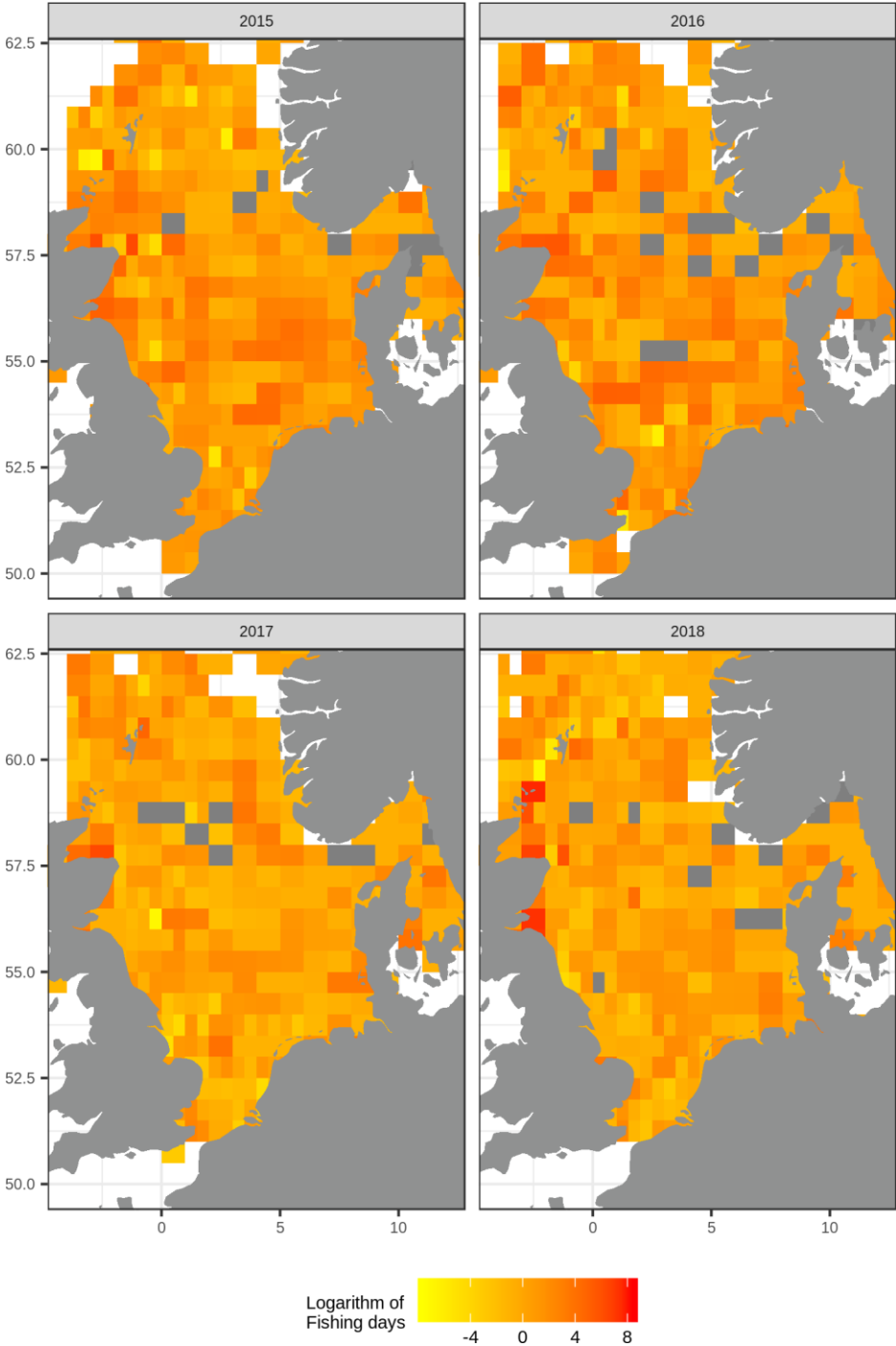
After the maps are reported the main sources of error in Table I and Table H and a total recap on the number of rows lost. It is important to note that data submission for Member States in the Mediterranean and Balck Sea is mandatory for the years 2017 and 2018 but voluntary for 2015 and 2016.

TOR4.2.1.a - Spatial effort maps: main fishing zones

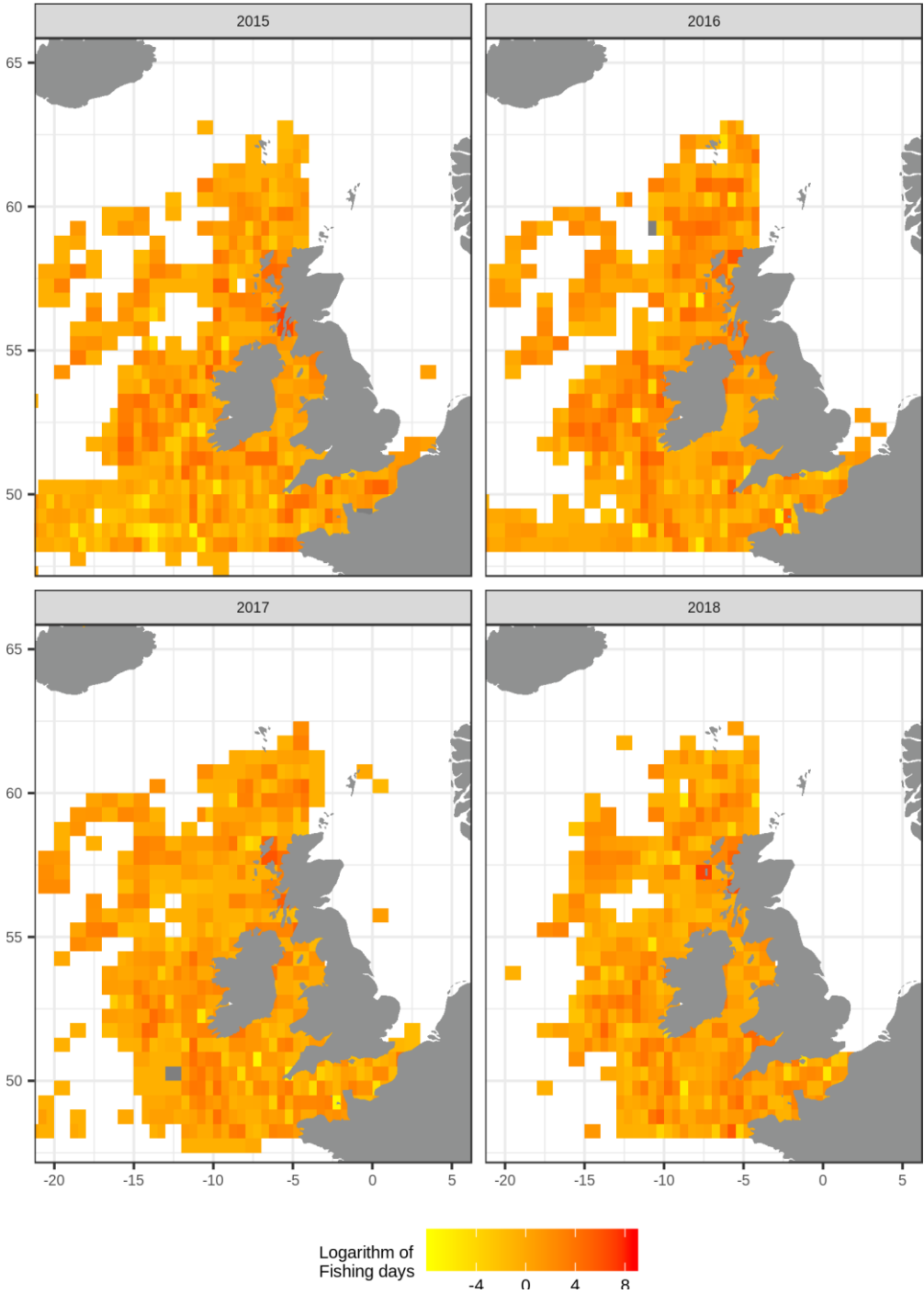
Baltic Sea



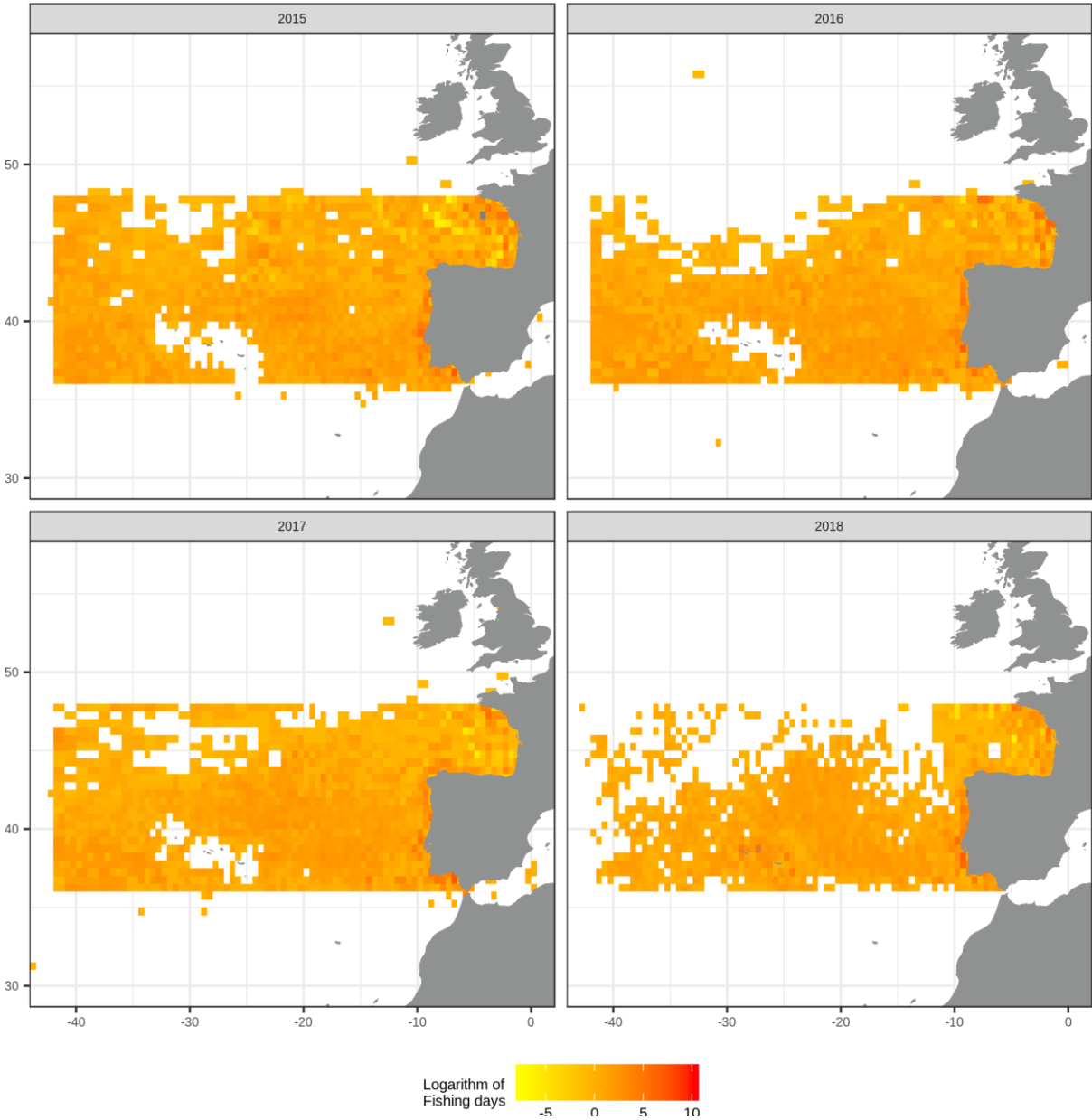
North Sea



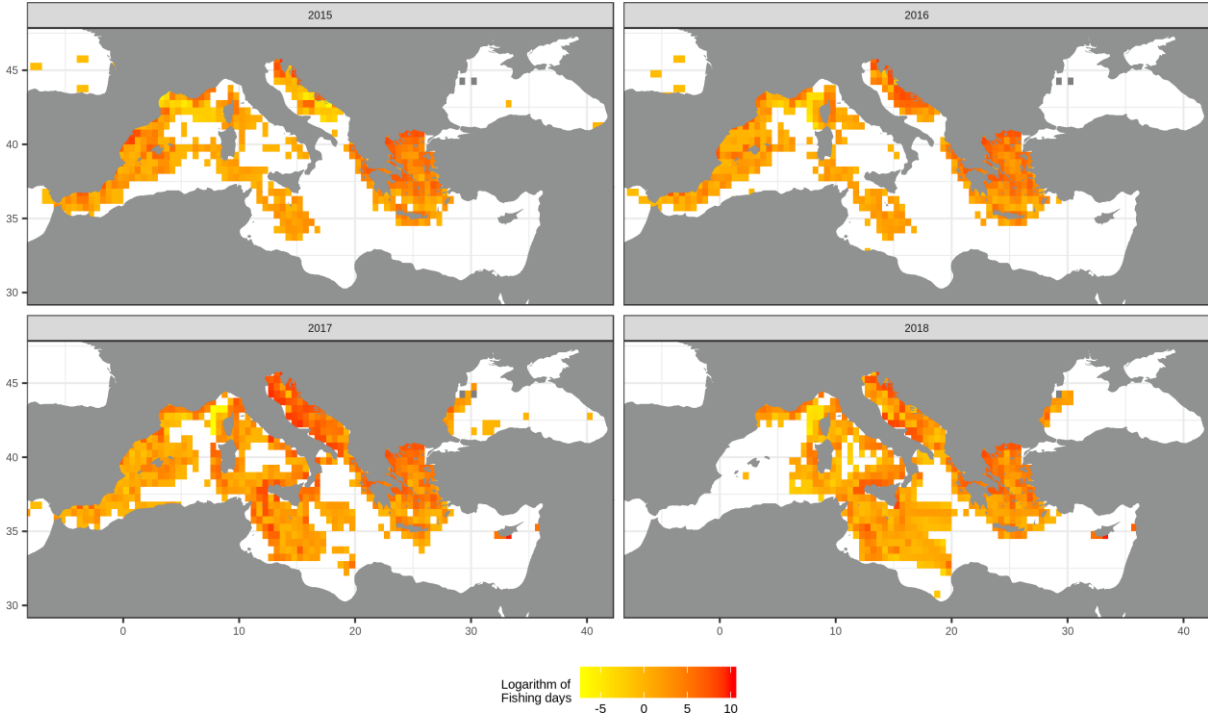
North Western Waters



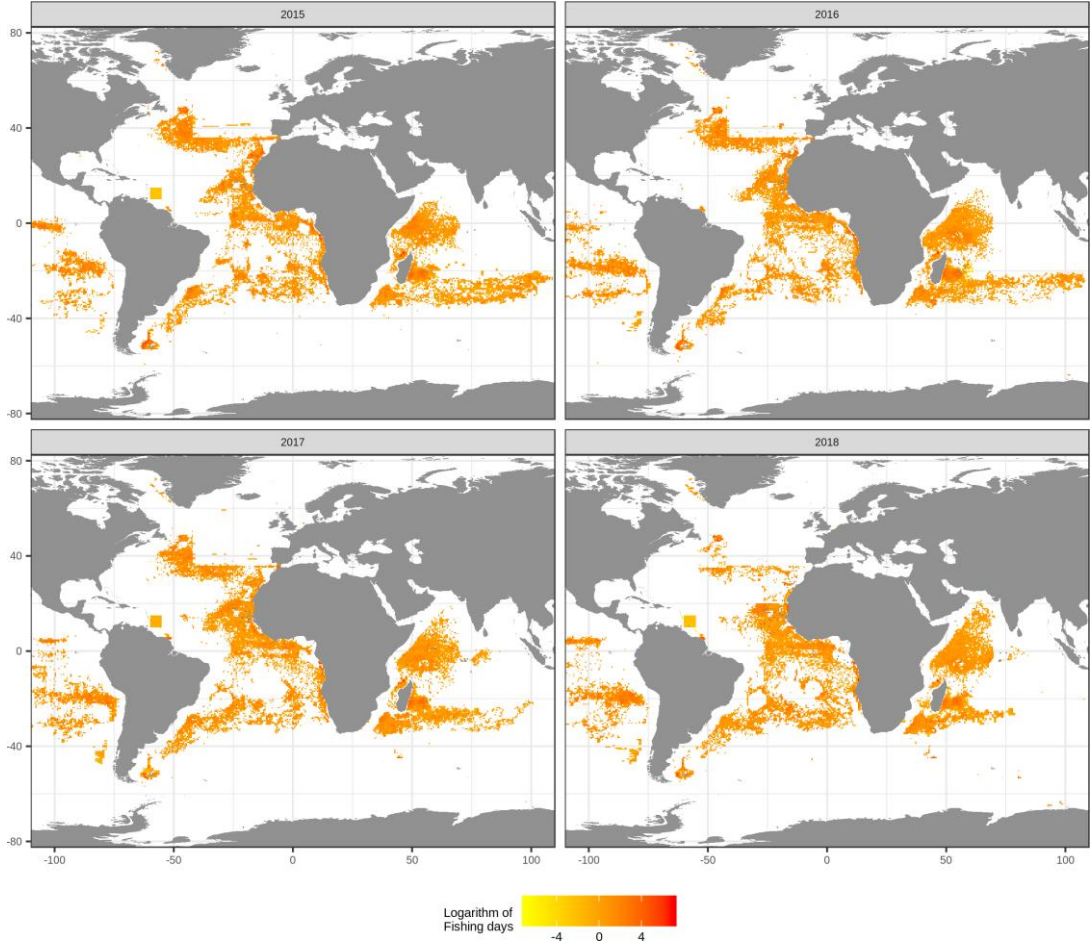
South Western waters



Mediterranean and Black Sea

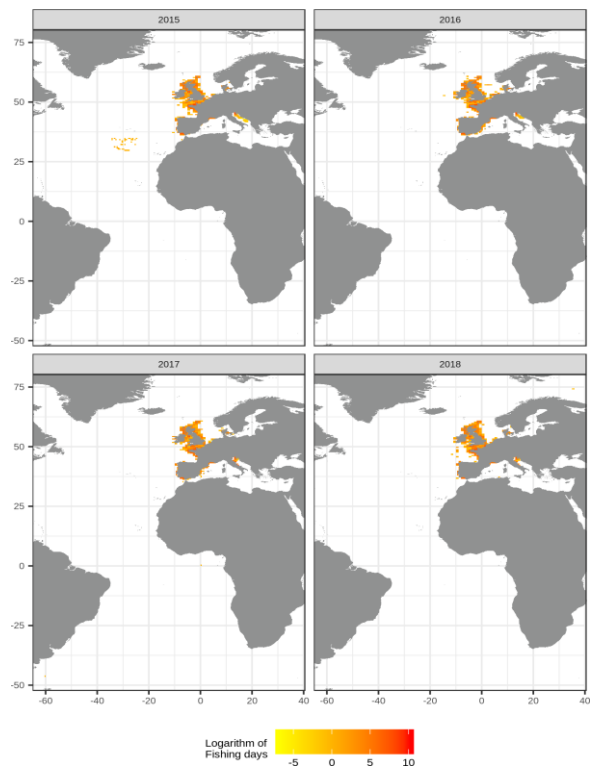


Distant Waters

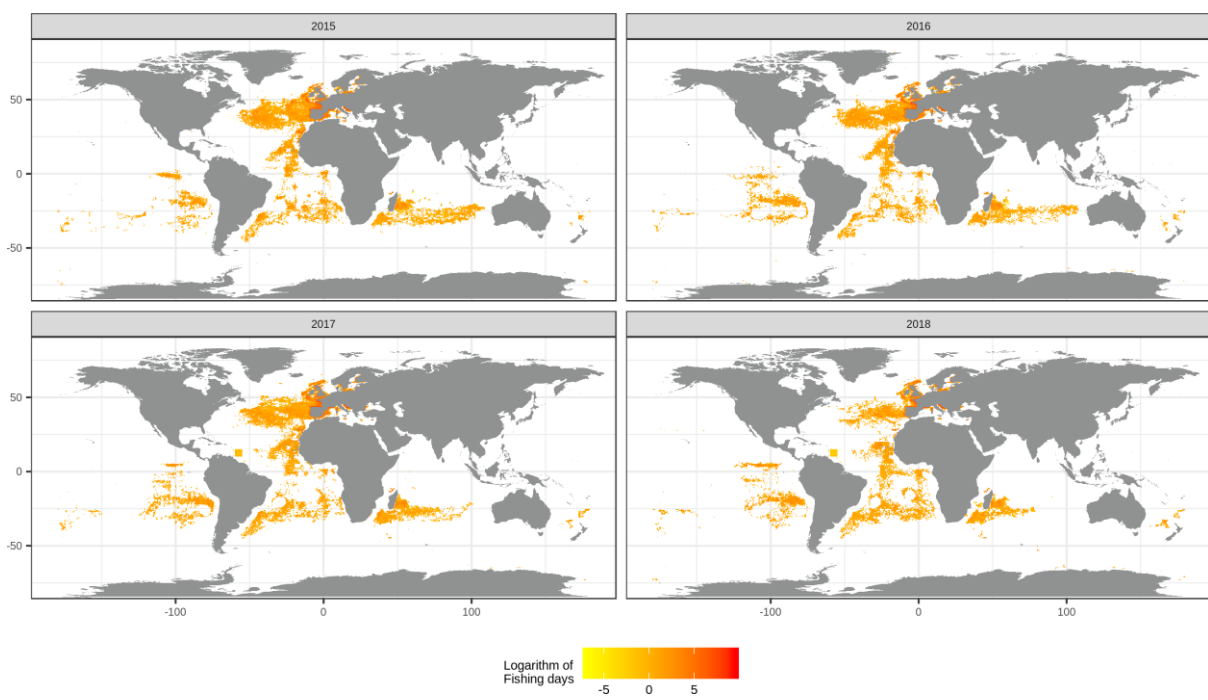


TOR4.2.1.b - Spatial effort maps: main gear types

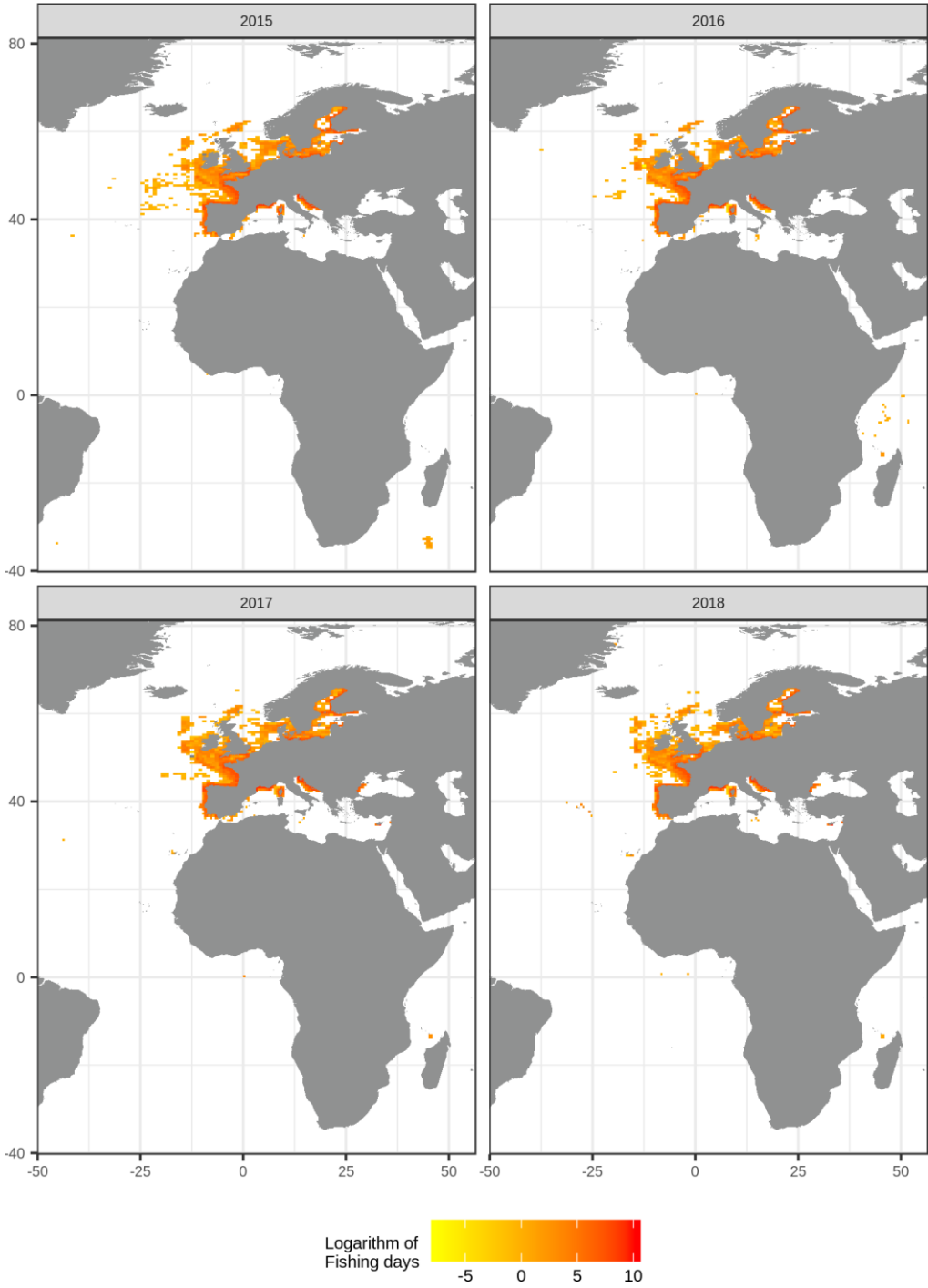
Dredges



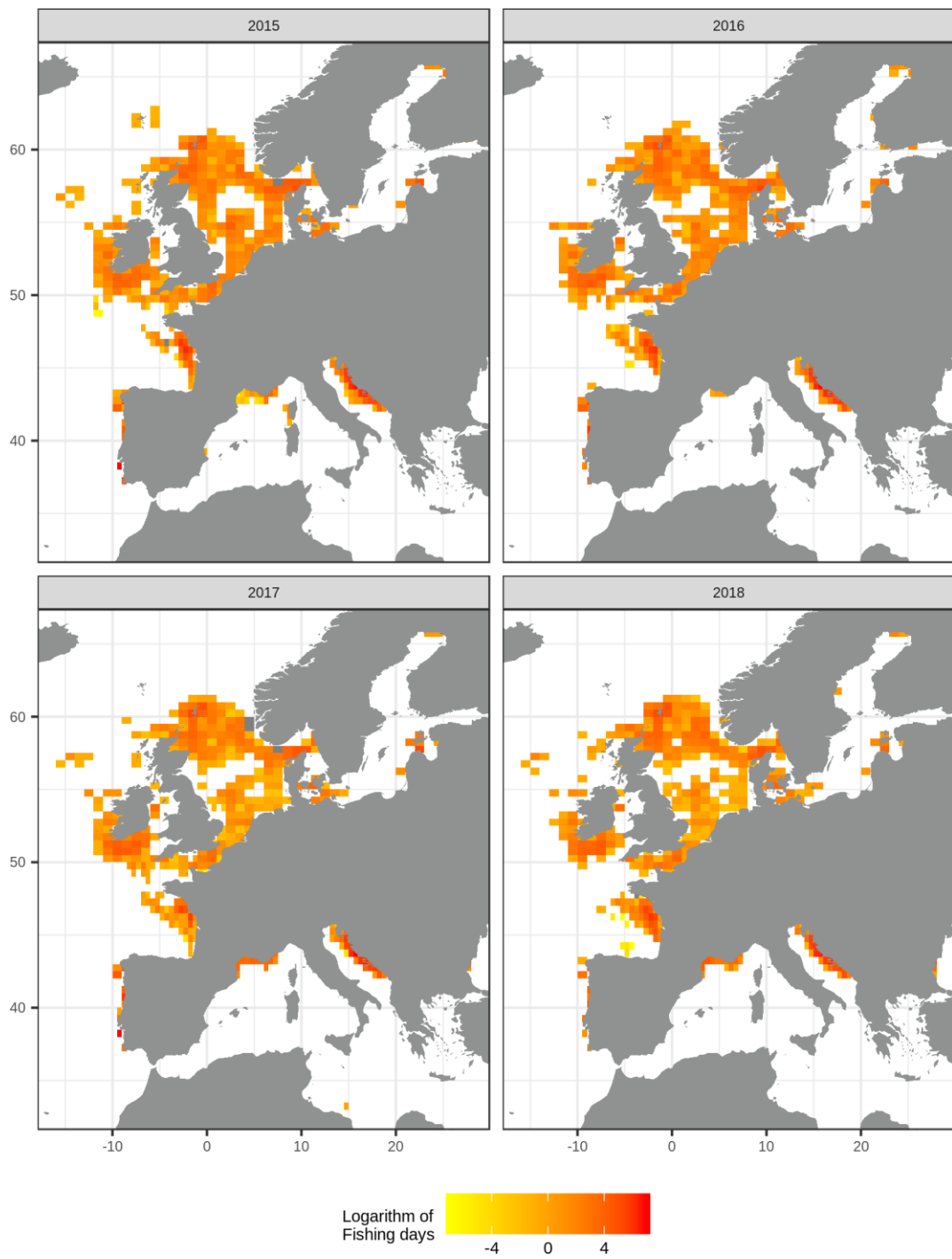
Hooks



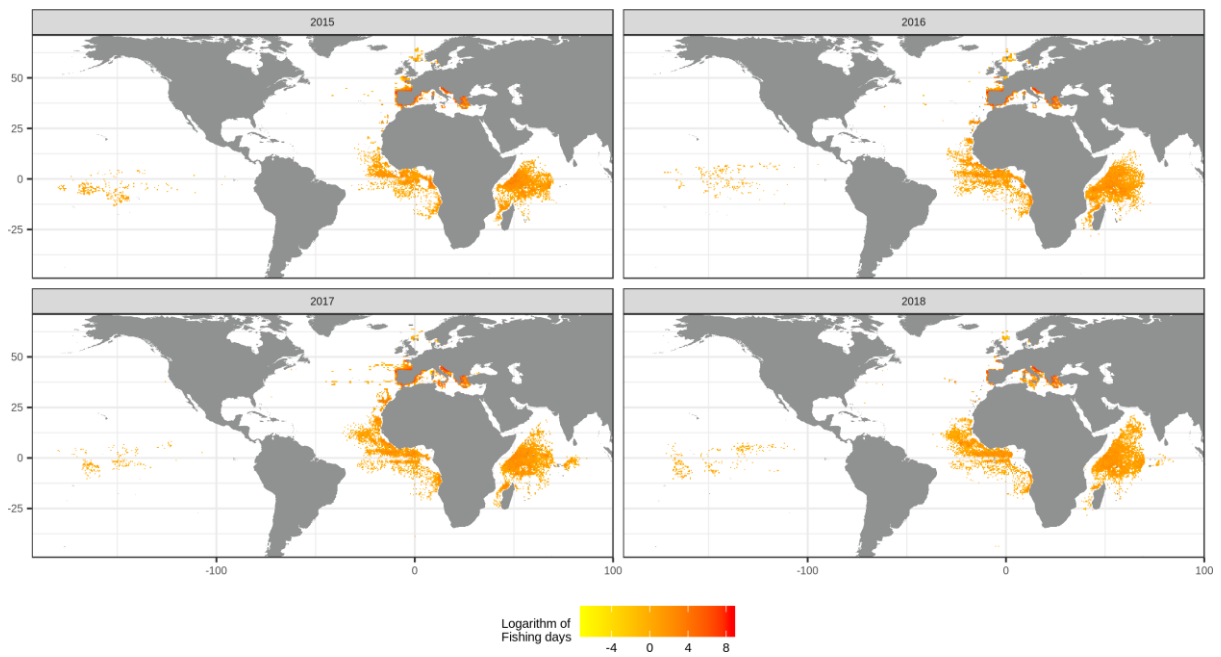
Nets



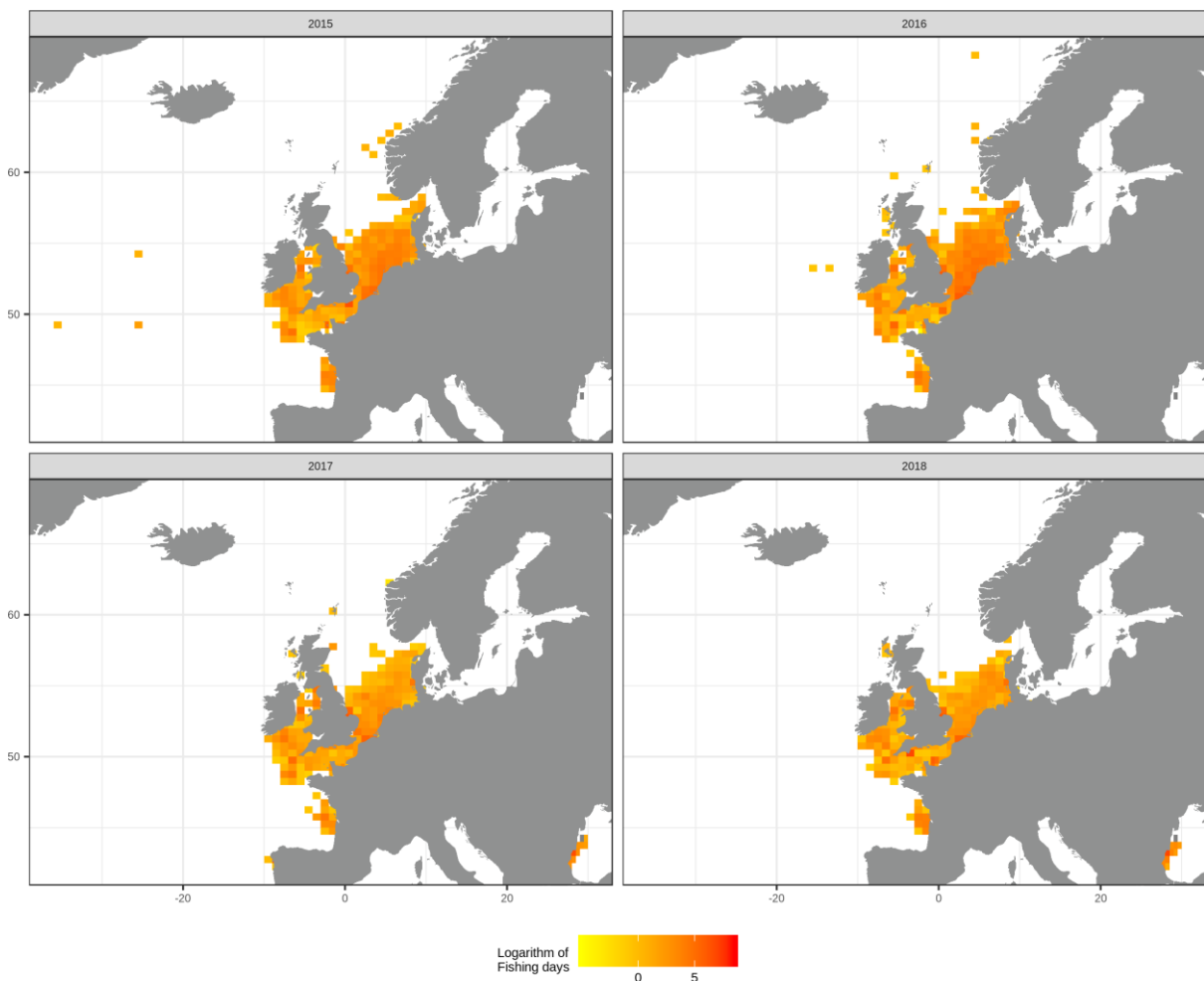
Seines



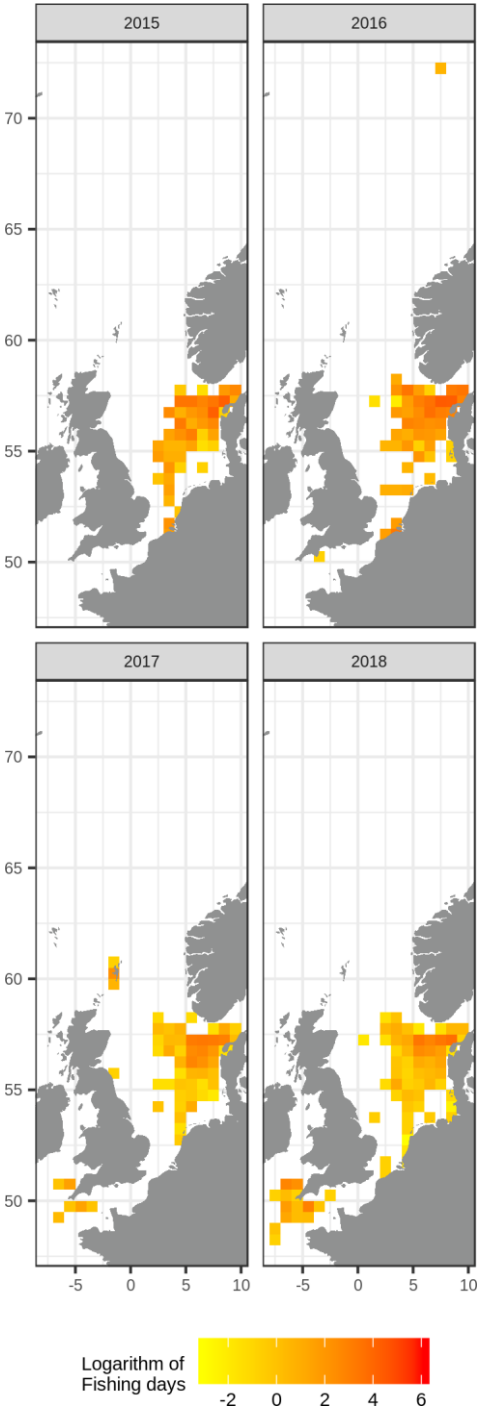
Surrounding nets



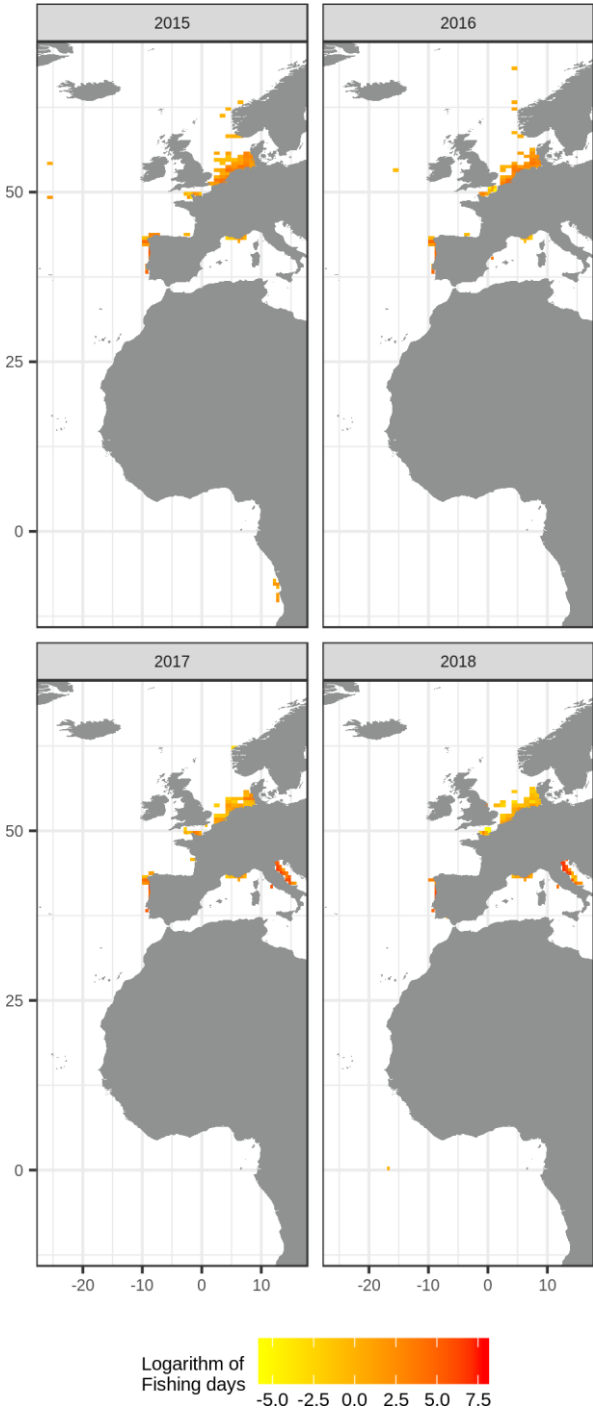
Beam trawlers with less than 120mm mesh size



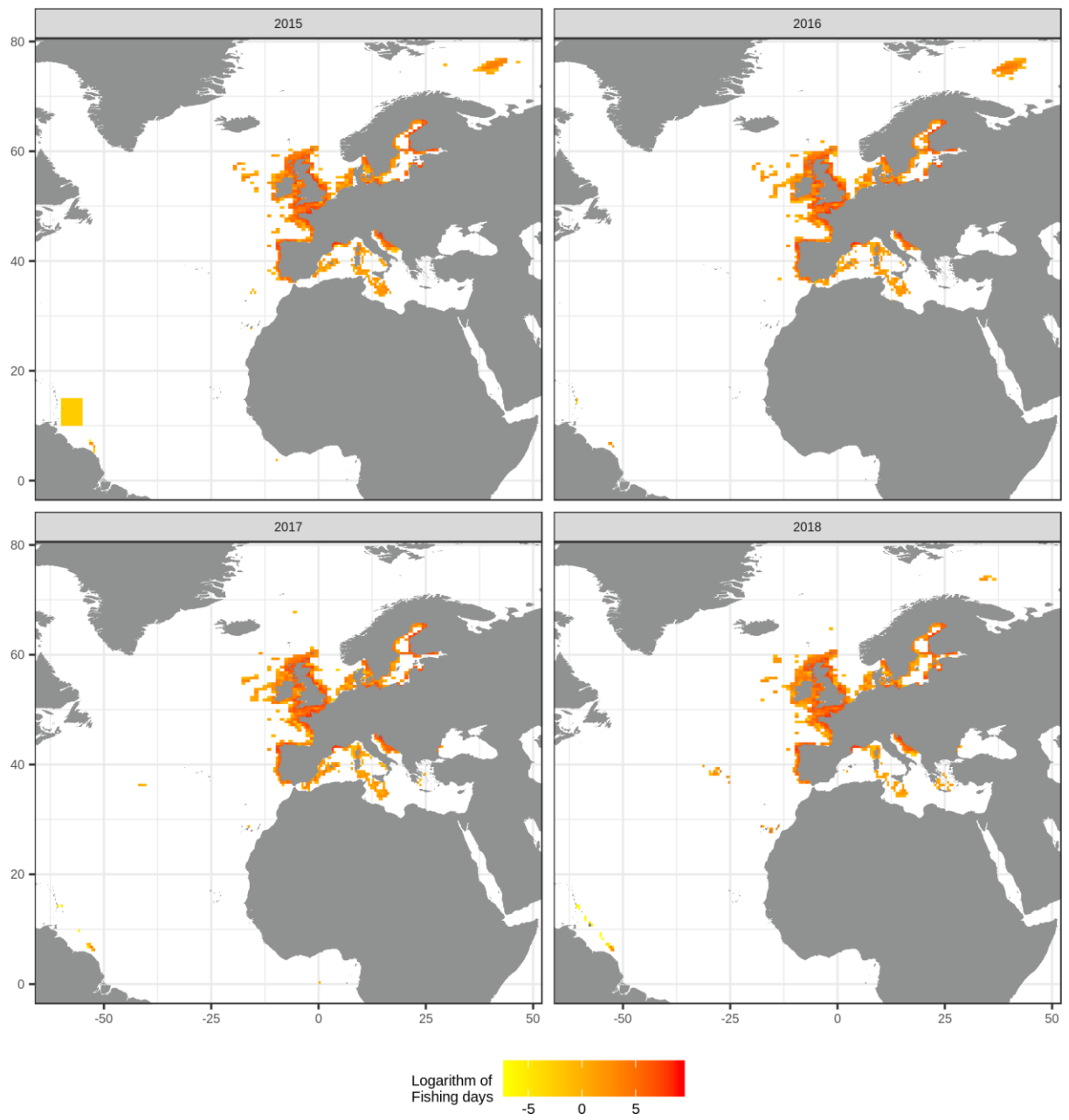
Beam trawlers with more than 120mm mesh size



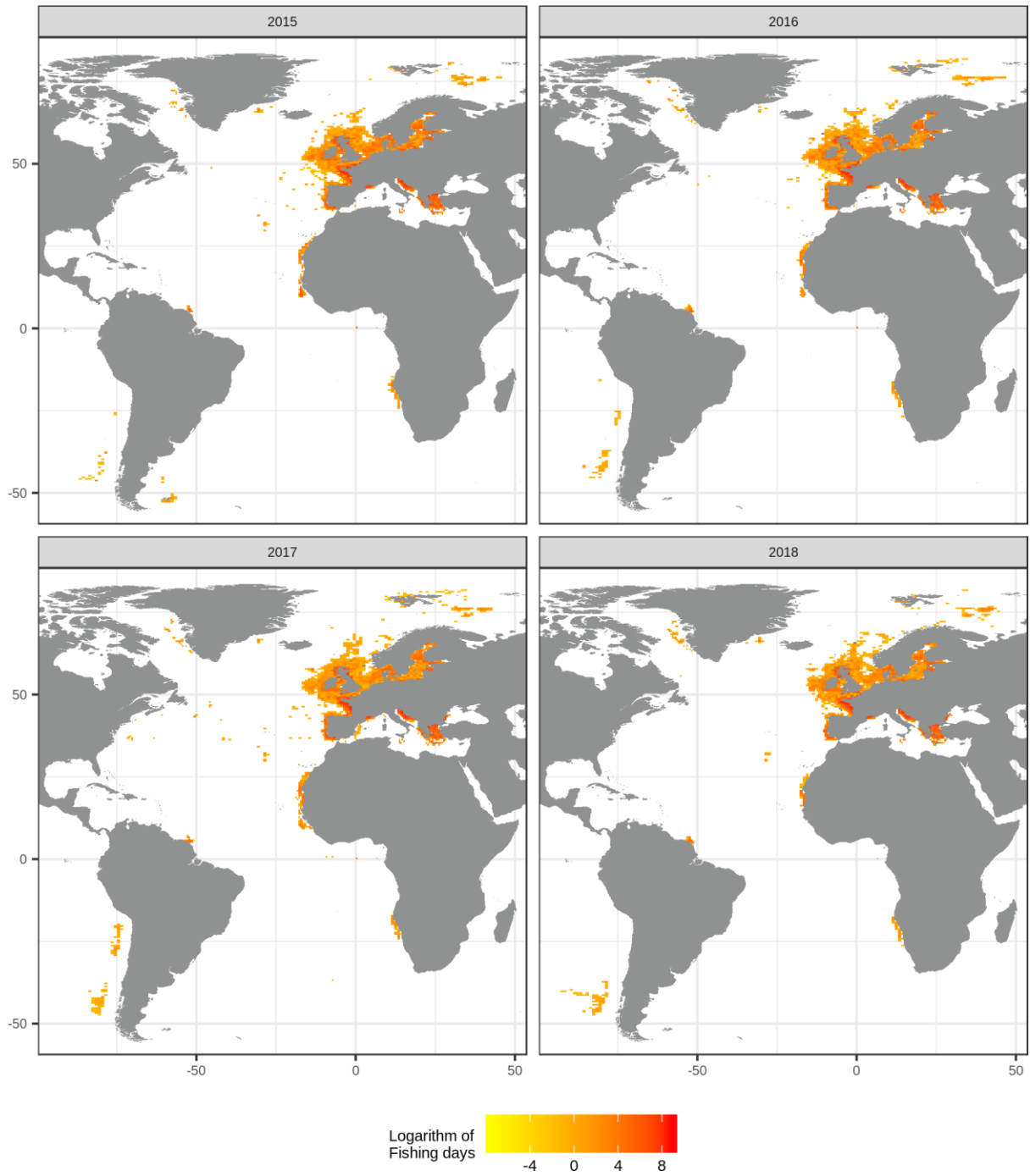
Beam trawlers with unknown mesh size



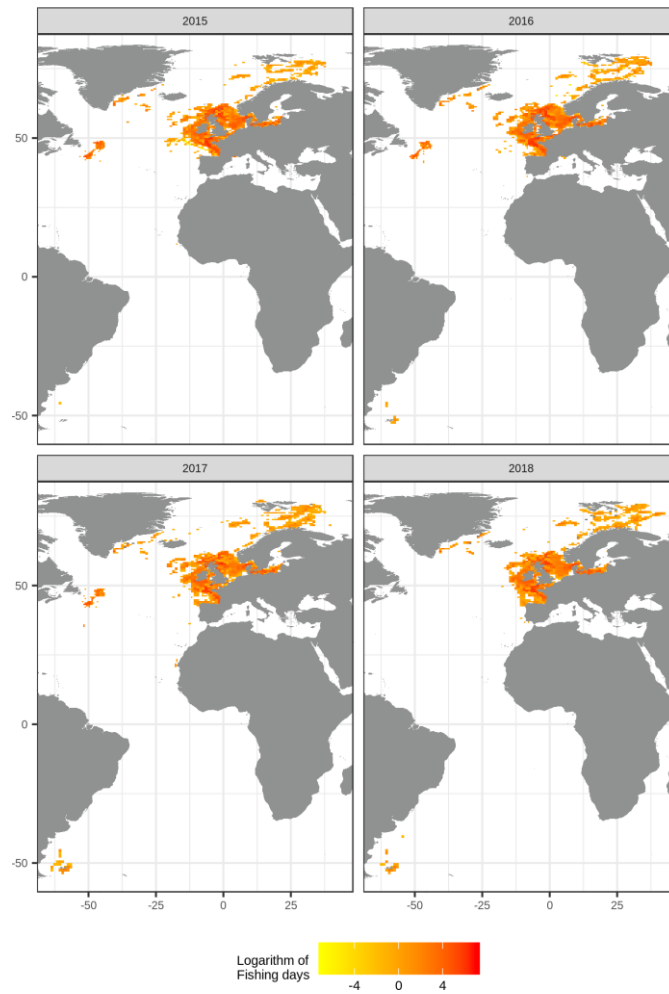
Traps



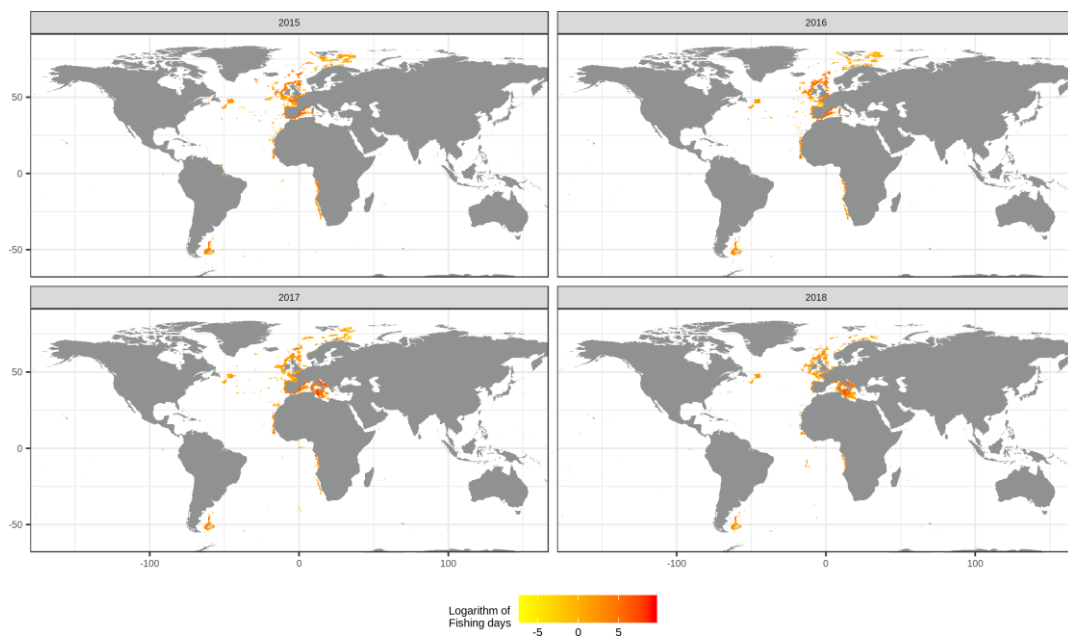
Trawlers with less than 100mm mesh size



Trawlers with more than 100mm mesh size

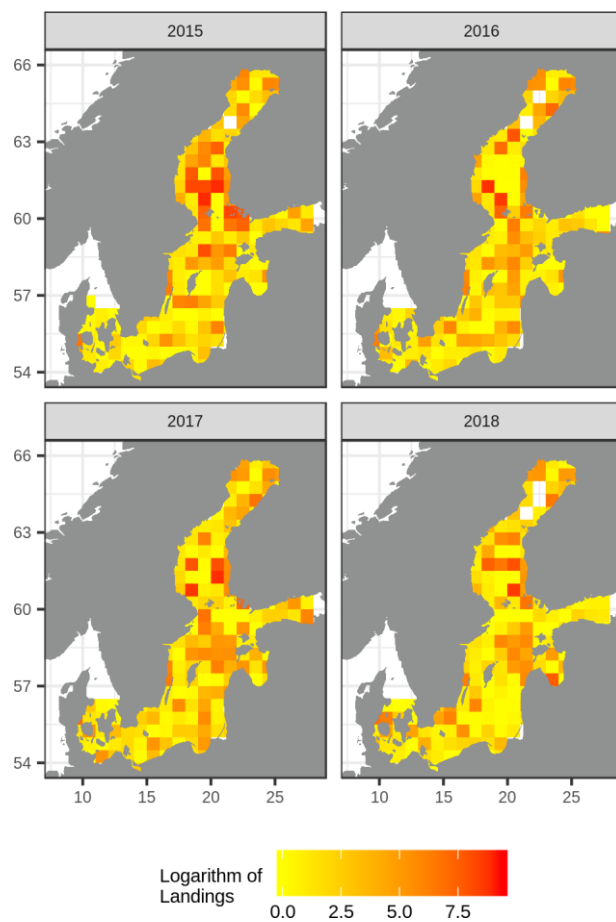


Trawlers with unknown mesh size

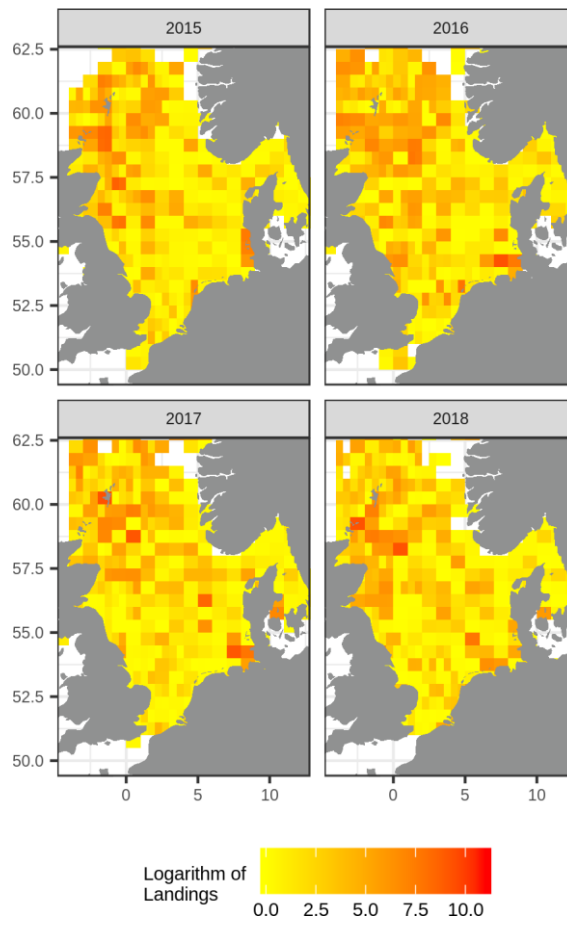


TOR4.2.2.a - Spatial landings maps: main fishing zones

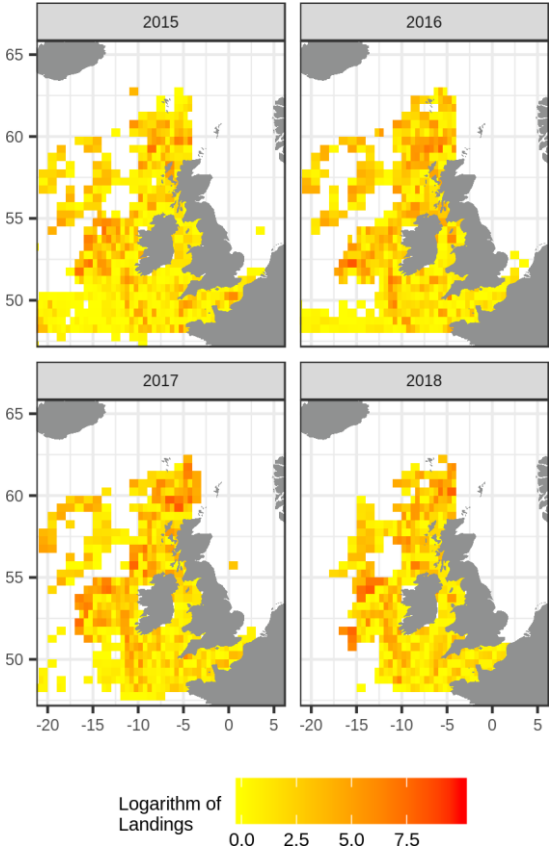
Baltic



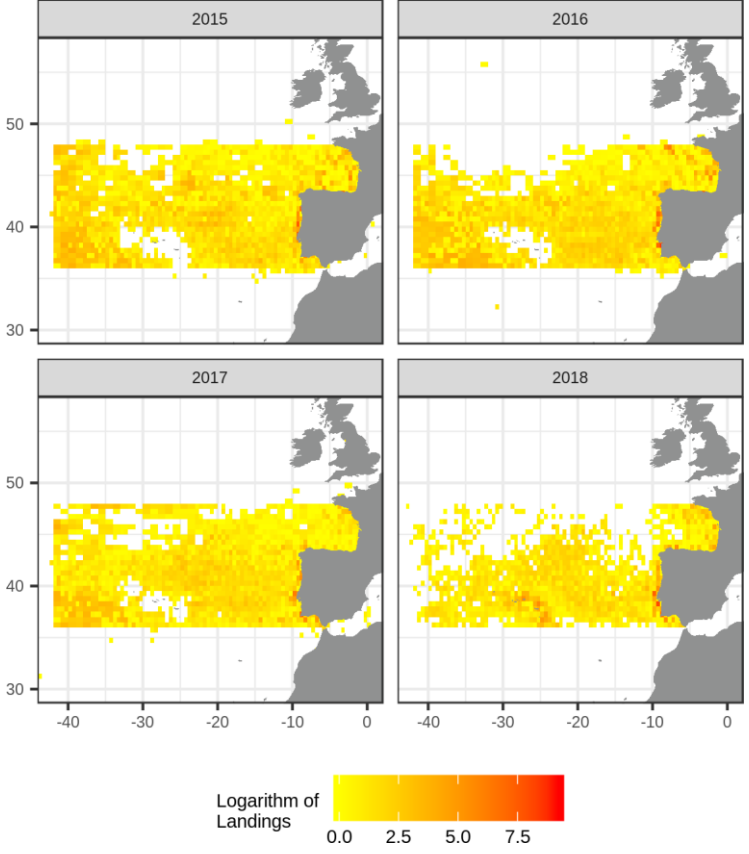
North Sea



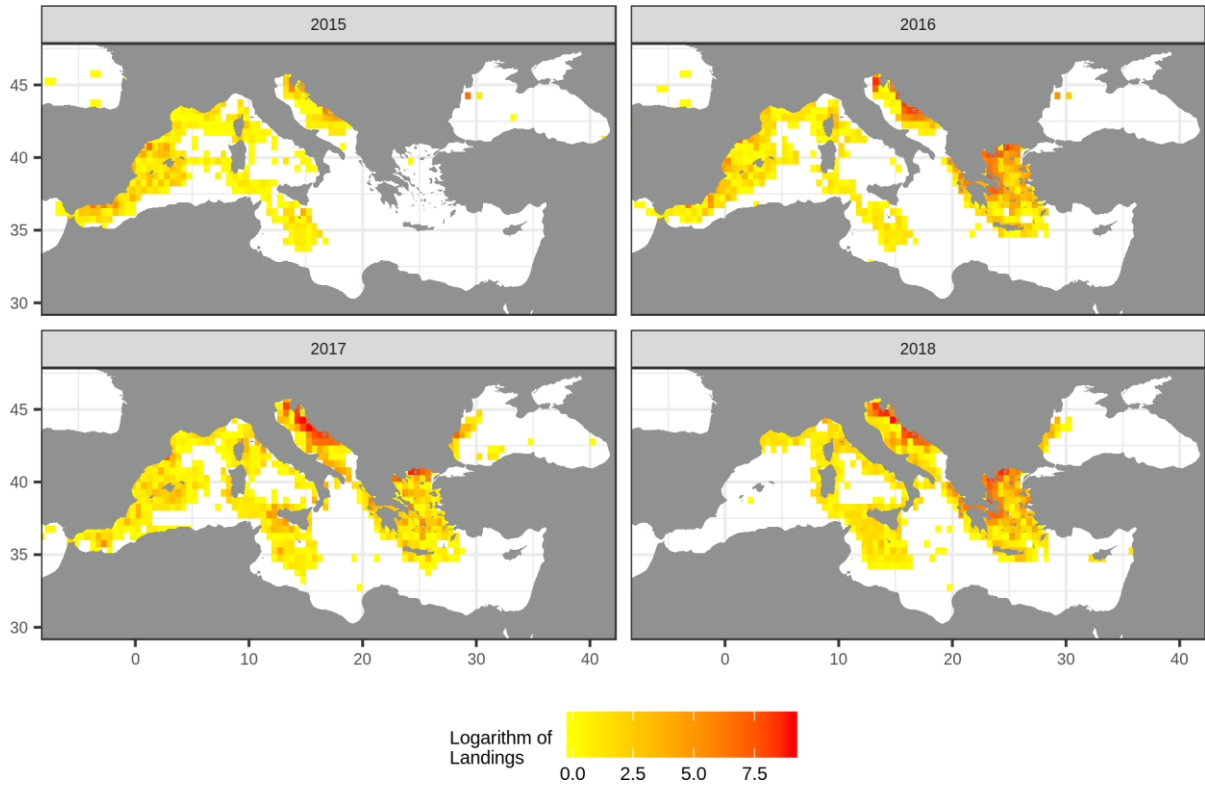
North Western waters



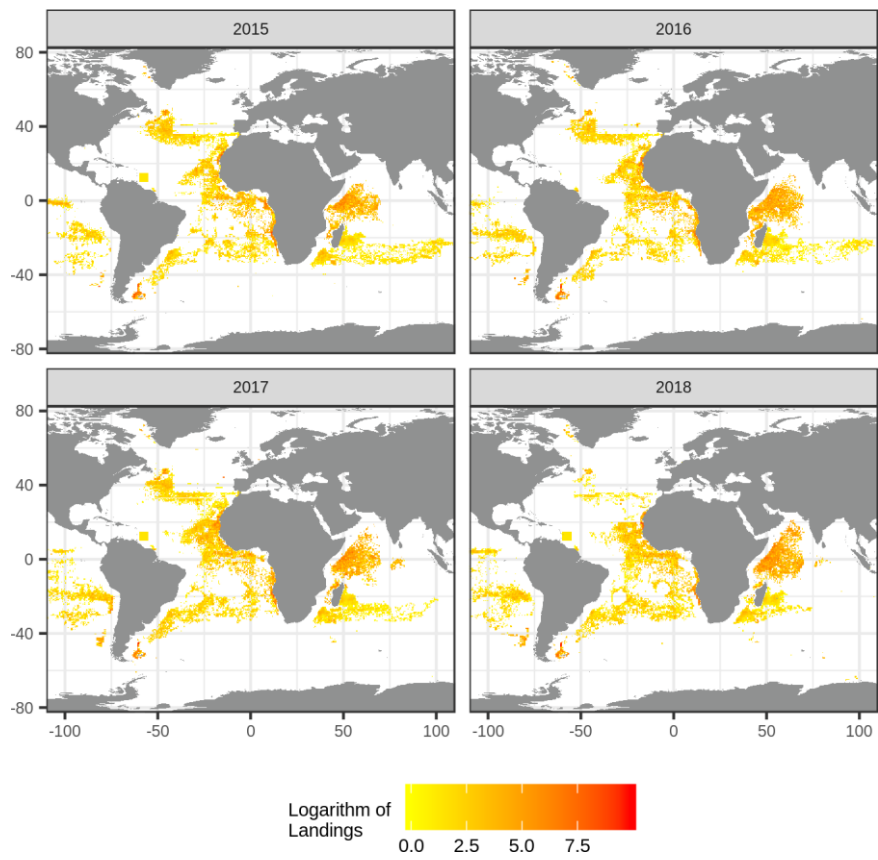
South Western waters



Mediterranean and Black Sea

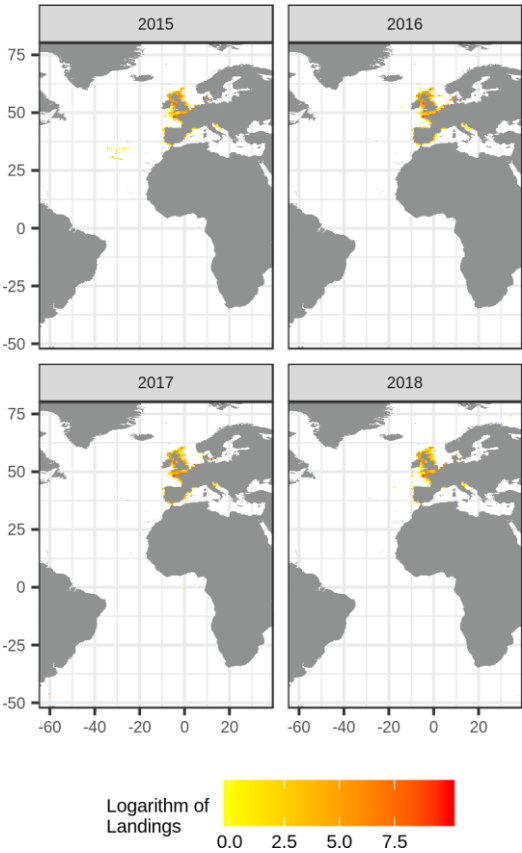


Distant waters

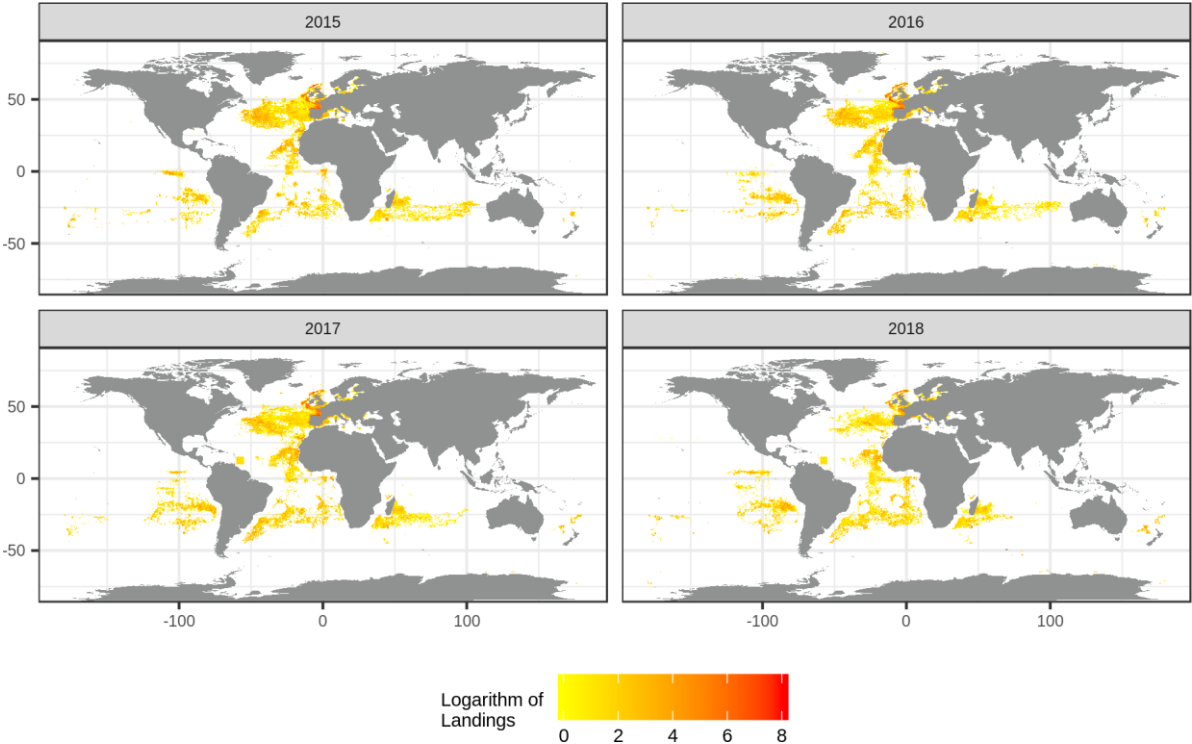


TOR4.2.2.b - Spatial landings maps: main gear types

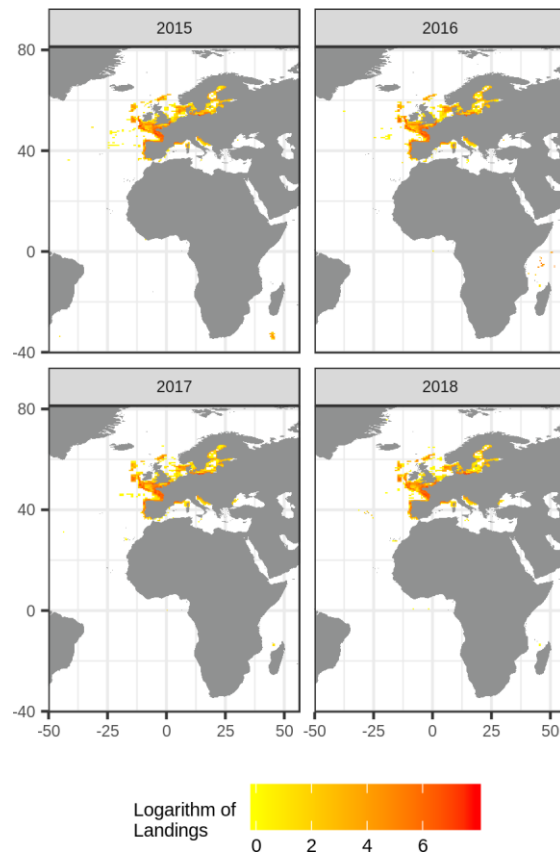
Dredges



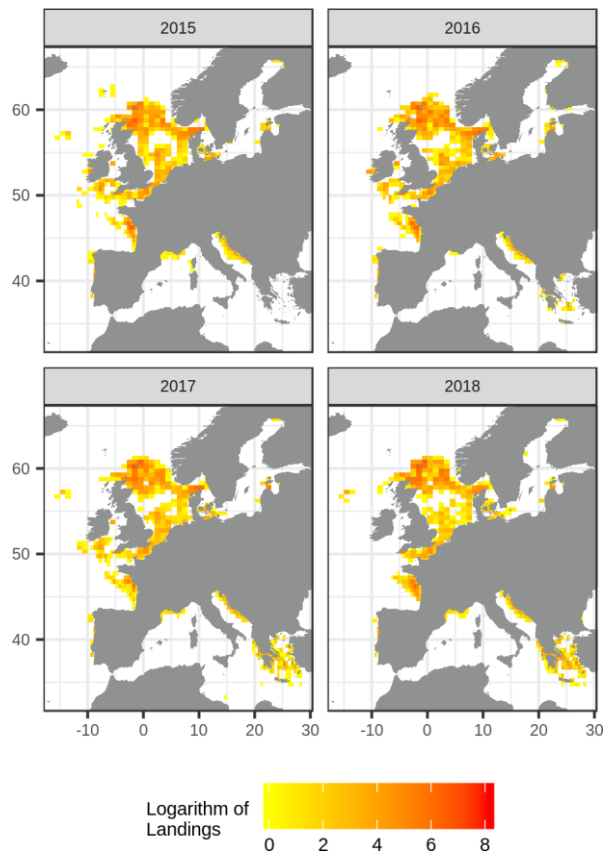
Hooks



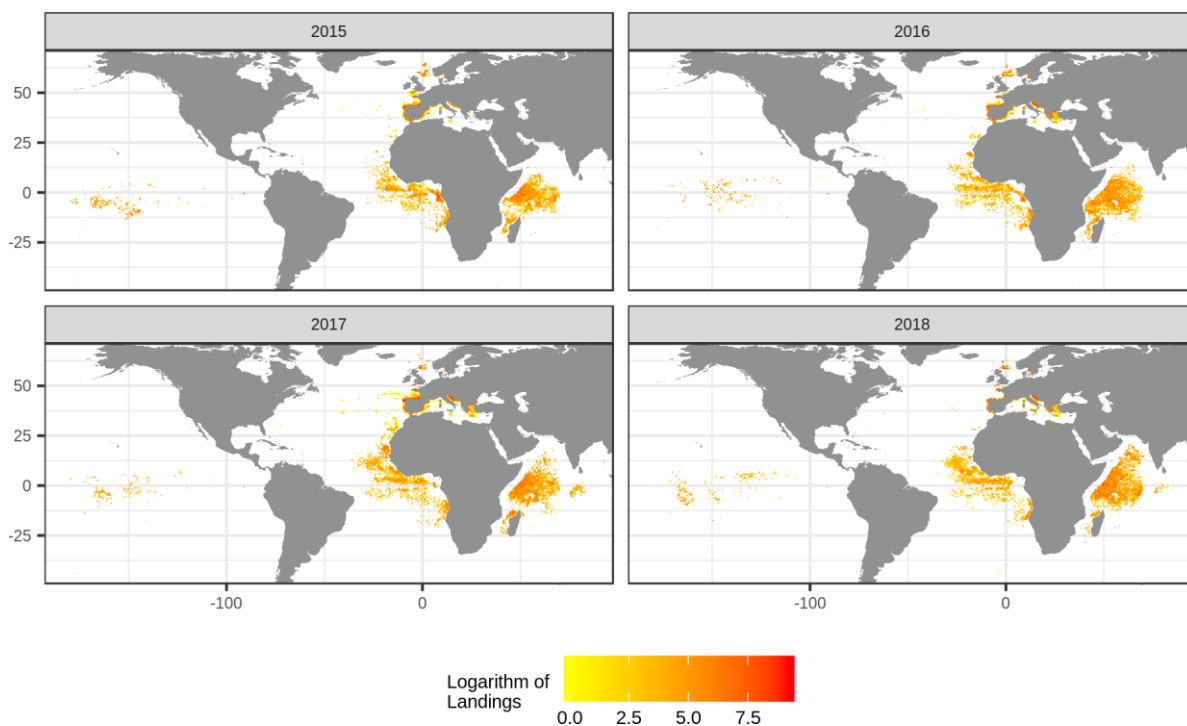
Nets



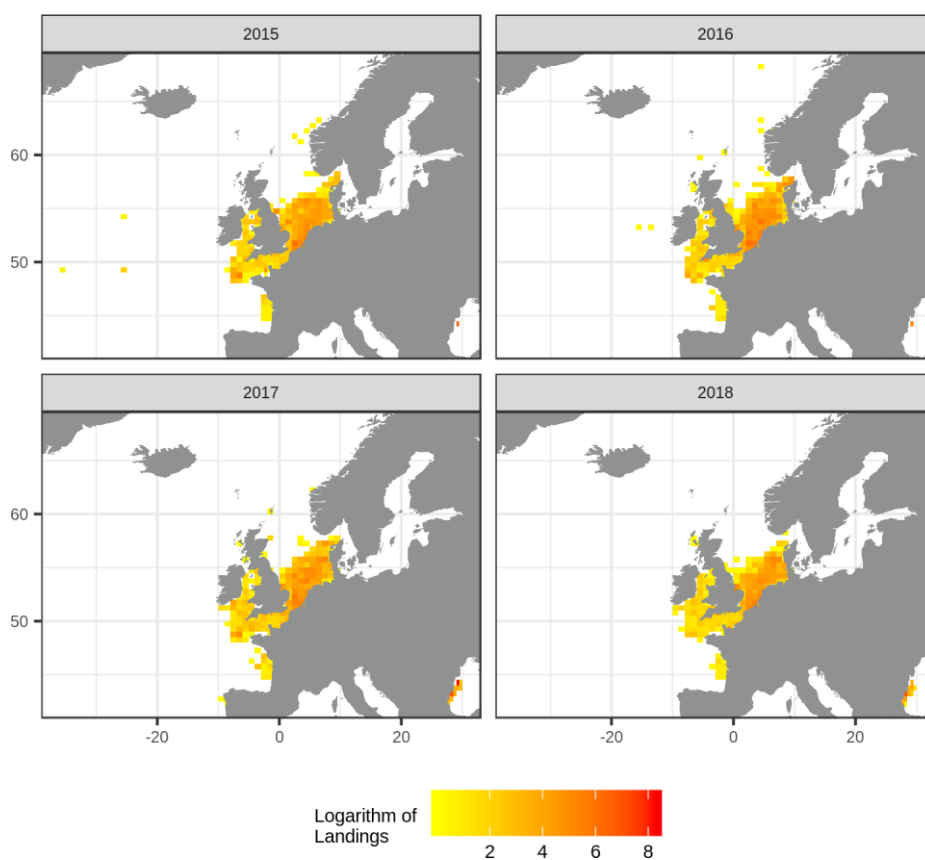
Seines



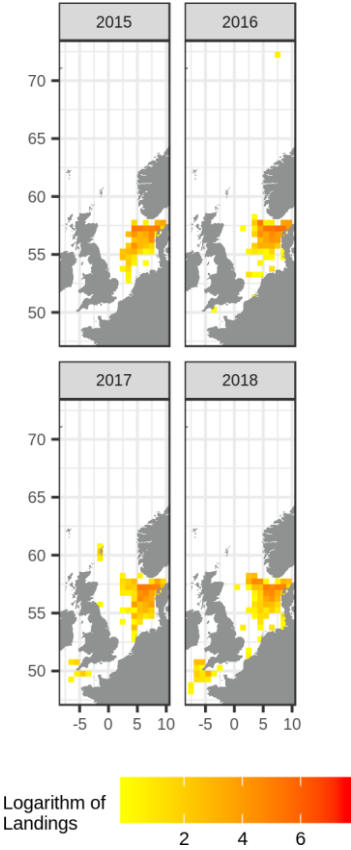
Surrounding nets



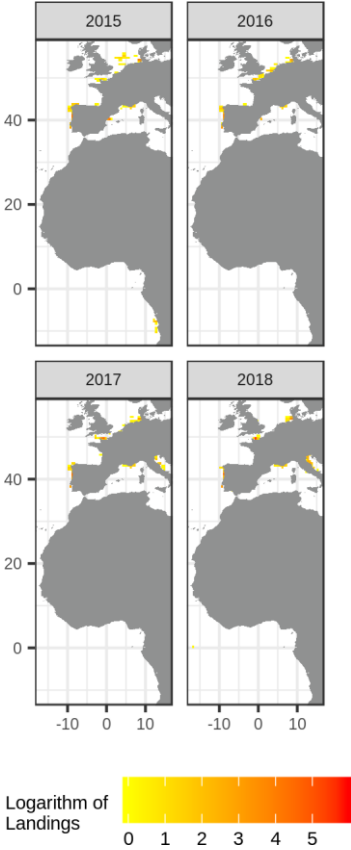
Beam trawlers with less than 120mm mesh size



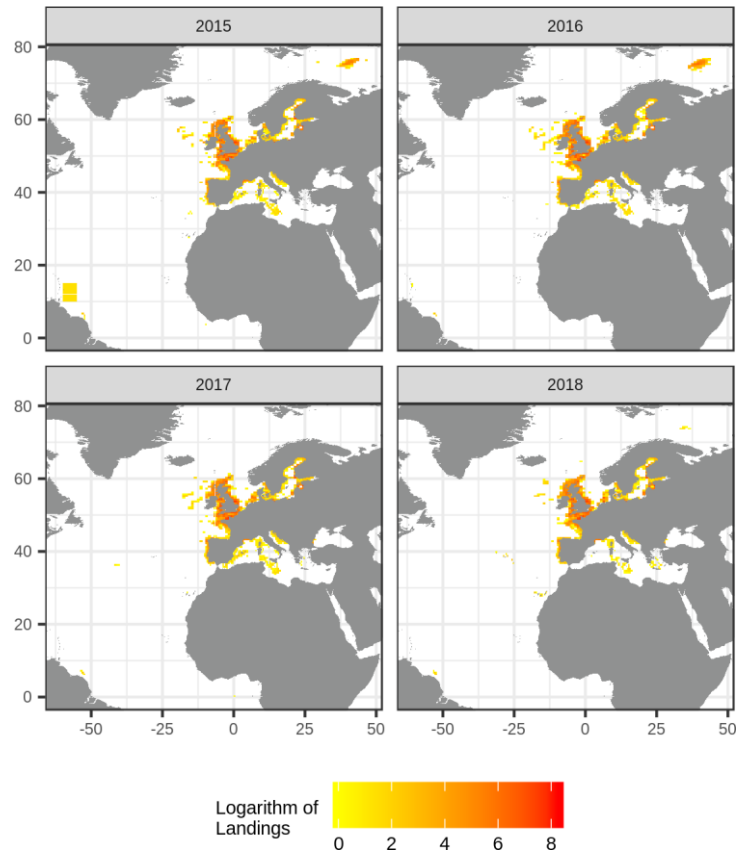
Beam trawlers with more than 120mm mesh size



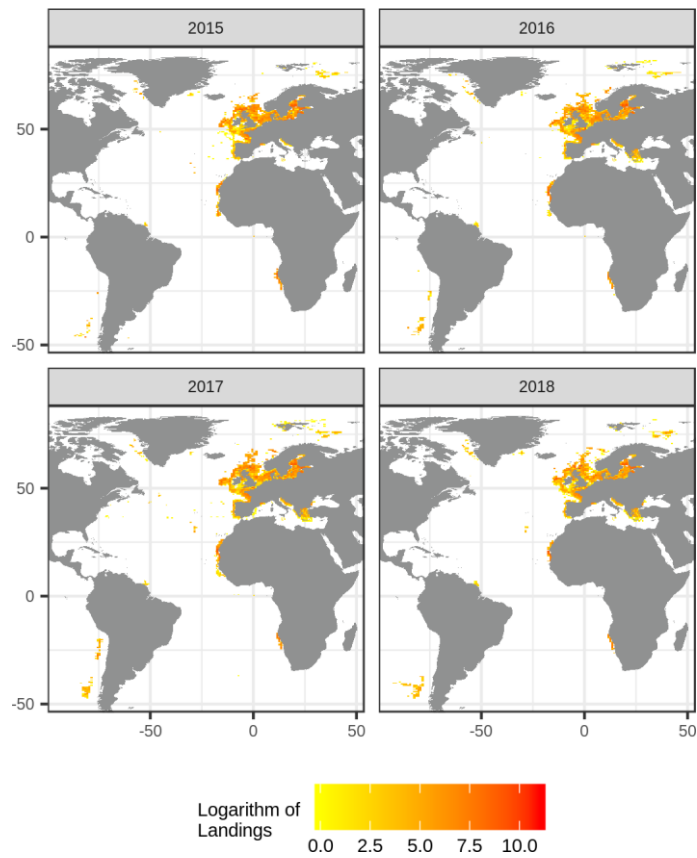
Beam trawlers with unknown mesh size



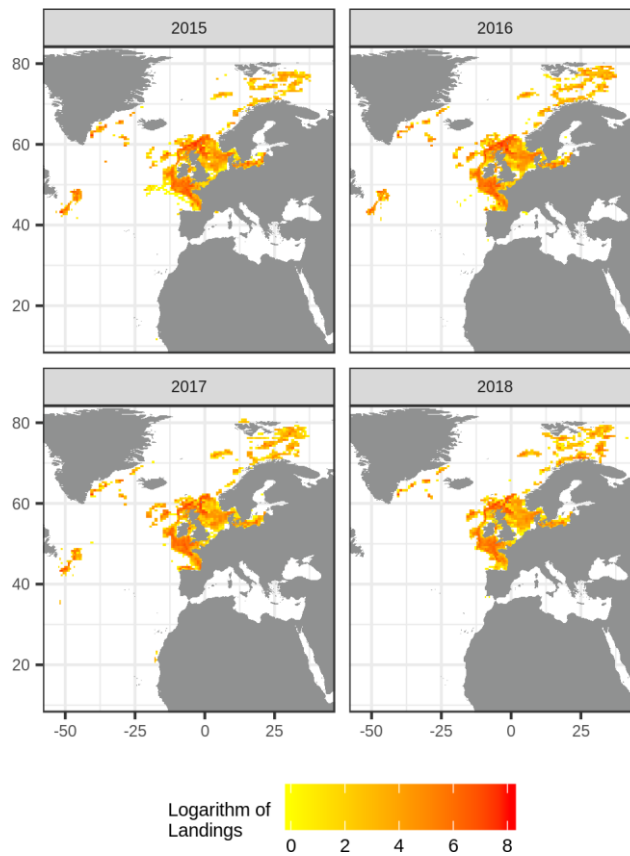
Traps



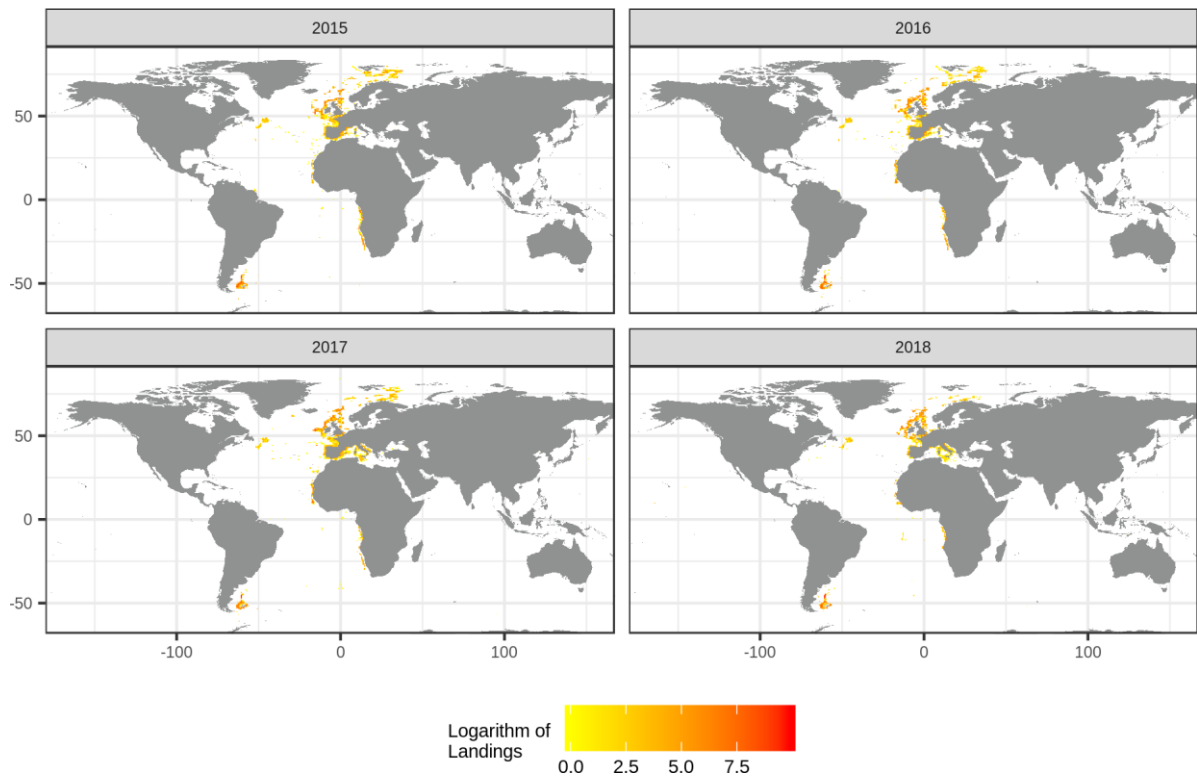
Trawlers with less than 100mm mesh size



Trawlers with more than 100mm mesh size



Trawlers with unknown mesh size



3.5 Provide catches, landings and discards data for exemptions in discard plans as well as information on the percentage of fish below and above MCRS

Request

STECF is asked to provide figures for landings and discards in 2018, at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each of the discard plans for 2020.

STECF is asked to assess and if possible, provide percentages of discards estimates below and above MCRS at a level of aggregation corresponding to the fleet, area and gear type as specified in each exemption of each of the discard plans for 2020.

Where there is insufficient discard data for the above task, the STECF is asked to provide estimated catches (landings + discards) for 2018, if possible and enough data provided during data call.

3.5.1 Discard estimates by exemption – (General – Methodology – Shortcomings – Extraction procedure)

General Conclusions

The group attempted to provide information for as many exemptions as possible. However, the EWG also concluded that it was not possible to fully answer the requests outlined in ToR 5 for each exemption in the discard plans due to the current format of the data available in the FDI database. Calculation of exemption-specific catch would sometimes require more specific and detailed data than is currently available in the FDI database (e.g., exemption only for discards inside 12nm or for vessels below or above a certain engine power). All results under this TOR have to be interpreted with caution, taking into account the shortcomings listed below.

Given that the exemptions show a wide variety of definitions to identify a certain group of vessels (and it cannot be predicted what will happen in future years), a specific data call asking Member States to provide data for each exemption may be a better option than to use data from the FDI-EWG that has been implemented to monitor the developments in EU fisheries in general.

Methodology and Shortcomings

The group based the calculation of the discards by exemption on estimates available in Table A. These estimates are the result of the partitioning (*done by MS, following the conclusion of the STECF Expert Working Group 17-12*) of discard estimates available in tables C&D into the detailed disaggregated levels specified in table A. Discard estimates calculated under the domain defined by the MS estimation process and conform with their sampling design ('Approved' / 'scientifically validated'), are only available in tables C&D. The EWG 19-11 stresses that such estimates may not be reliable estimates of the true discards.

The EWG has attempted to provide an estimate of different catch fractions for fleets that will likely be granted exemptions from the landing obligation in 2020, based on data provided for 2018. The following shortcomings have to be taken into account to avoid misinterpretation of results under TOR 5:

1. The EWG notes that the data call asked for scientific estimates of discards. The estimated values based on scientific sampling programs are uncertain (and potentially biased) and do not constitute an official estimate like landings reported in logbooks. Therefore, any estimate provided under TOR5 for discards of species under the landing obligation cannot be interpreted as discards for control purposes of de-minimis exemptions.
2. The EWG further notes that providing reliable and robust estimates of catches, i.e. landings and discards for fleets that are granted exemptions from the landing obligation is problematic. For many of these fleets, estimates are unavailable, because MS are not obliged to sample these métiers according to the national DCF sampling plans, and for those fleets where discards have been sampled, the achieved sampling coverage is often much lower than required to provide a robust estimate of the true discard fractions. At best, such estimates are likely to be rather

uncertain. In general, the sampling programs under the DCF are designed to inform assessments of stocks and not provide discard information in the highly disaggregated format asked in the data call. Alternatively, official logbook information could be used. However, for most MS and fisheries, the records of unwanted catch fractions (discards + BMS landings) in logbooks are believed to be an unreliable source of information. To improve the situation, Member States may have to find ways to improve compliance and may have to adapt their national sampling programs in case they have a larger amount of landings under a certain exemption, but no discard information. To provide estimated catch fractions for fleets that have not been sampled requires extrapolation of catch samples taken from other fleets which may not be representative of the catch composition of these fleets, because of differences in fishing patterns (where, when and how the fleets fish), target species, catch quota and differences in species and size selectivity etc. A further complication arises when the sampled catch fractions of a particular fleet or fleets relate to only a small proportion of the total catch of the same species by all fleets involved in a fishery. It is impossible to judge whether the estimates of the discard fractions derived from extrapolation of sampled fleets are likely to be representative of those fleets that are not sampled.

In principle, there is scope for the EWG to use its expert judgement to determine whether the catch fraction estimates from sampled fleets are likely to be representative of the catches for other fleets. However, in practice, such an assumption may be erroneous because, influence of factors, such as differences between the fleets in fishing pattern, timing of fishing and quota availability are not always known by the EWG. Therefore, the estimates based on extrapolation may be inaccurate. Hence the EWG considers that extrapolating catch fraction estimates for one fleet or fleets to other fleets simply to generate fleet-specific estimates needs to be carefully considered and be restricted to fleets likely to have similar catch compositions.

Therefore, the EWG has adopted the following selection criteria:

For all areas apart from the Mediterranean Sea (outside area 37)

year, quarter, species, sub_region, gear_type, mesh_size_range, target_assemblage, specon_tech

For the Mediterranean Sea (area 37)

year, quarter, species, sub_region, metier, specon_tech

In more detail, the following procedure and equations were used:

Let the following notation be: D=discards, L= landings, *snf* = national fishery with a discard estimate from 0 to X, *unf* = non-sampled fishery without discard information.

The available landings and discards are aggregated (summed) over fisheries

- for all areas apart from the Mediterranean Sea, by year, quarter, species, sub_region, gear_type, mesh_size_range, target_assemblage, specon_tech
- for the Mediterranean Sea, by year, quarter, species, sub_region, metier, specon_tech

and mean discard rates DR are calculated:

$$DR = \frac{\sum_{snf} D_{snf}}{\sum_{snf} (L_{snf} + D_{snf})} \quad \text{if } D_{snf} \geq 0 \quad \text{and with } L_{snf} + D_{snf} > 0$$

Fisheries specific discard amounts are then calculated if no discard information is available by

$$D_{unf} = \frac{L_{unf} \cdot DR}{(1 - DR)} \quad \text{where } D_{unf} \text{ is null (empty)}$$

Fisheries without any quantitative discard information, i.e. no average DR could be estimated, remain without any discard estimation.

For 2018 in total only 21.5% of the landings (1140432 tonnes out of 5303762 tonnes) had associated discard information submitted (all areas combined). From these landings, 444710 tonnes had zero discards (8.38% of the total landings). Taking into account the substantial issues mentioned above, the EWG took the decision to provide the discard information by exemption or by species and area with and without fill-ins. The fill-ins do in most cases not add a substantial amount of discard information or increase the coverage substantially. This highlights again the general issue that for several fisheries under the exemptions only little information was available to provide discard information based on observer programs because DCF national sampling programs have to provide information in a much wider context and are not designed to provide information for each exemption even if a MS has only a small amount of landings under a certain exemption. The EWG stresses again that any EWG estimates presented below have to be used with great care.

3. The EWG notes that given the aggregation level of the data in the FDI database, it was impossible to filter the database to the exact fishing tactic used in the various exemptions. For example, the mesh size categories specified in the FDI database often do not exactly match those defined in a certain exemption. Also area definitions in exemptions were sometimes too detailed (e.g., areas up to a certain longitude or latitude) and did not exactly match the aggregation level of the FDI database.

4. The EWG notes that it was sometimes unclear which gear types are under a certain exemption. For example, a large part of *Nephrops* catches is made with gear type OTT in division 3a. However, the discard plans only mention OTB and TBN as gear codes in exemptions for *Nephrops*. In other exemptions for demersal, OTT is mentioned explicitly next to OTB and TBN suggesting that OTT would have been mentioned if catches with OTT are included under a certain exemption. Nevertheless, it is open to interpretation whether TBN (*Nephrops* trawls, an old gear code hardly used in current logbooks) may also contain OTT. To avoid speculations the EWG only used gear codes mentioned explicitly under a certain exemption for filtering the database (i.e. excluding OTT).

5. The EWG further notes that all shortcomings in data quality and coverage identified under TOR 1 -3 also apply to TOR 5.

Extraction procedure

Information, related to certain exemptions was extracted in following steps:

1. All exemptions and their definitions were translated to FDI database codes (see Tables 3.5.2.1.1-3.5.2.5.1 for the list of FDI codes associated with exemptions);
2. The data for each exemption was extracted from FDI database and database with fill-ins (created following methodology described above);
3. The information was summarised in two main formats:
 - a. Tables with landings and discards reported by MS and estimated for the fleets under exemptions (Tables see Tables 3.5.2.1.2-3.5.2.5.2)
 - b. Tables with exemptions data aggregated by species and subregions (Annex 3)

In both sets of tables there are following columns:

- 'Total weight of landings, tonnes' – total landings recorded in FDI database for particular exemption or species
- Discards (with or without fill-ins) – weight of discards reported to FDI (estimated and reported to FDI in case of fill-ins);
- 'Coverage % of total landings reported' - percentage of weight of landings for which associated discard data had been reported to FDI database.

In all associated tables:

- ✓ c – data reported as confidential during the data call;
- ✓ n.a. – not available

3.5.2 Discard estimates by exemption – (Result)

3.5.2.1 Baltic Sea region

Table 3.5.2.1.1 - The anticipated exemptions for discard plans for 2020 in the Baltic Sea region and the related FDI codes.

2020													
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species code	Percent/MCRS
Survivability	2018/211,Art3.1	Baltic (IIIb-d)	Yes	trap nets-creels/pots- fyske nets-pound nets		FPO-FYK-FPN	All	All	All		Salmon	SAL	-
MCRS	2018/306	Baltic (IIIb-d)	no			All	All	All	All		Cod	COD	35 cm
	2018/211,Art3(2)	Baltic (IIIb-d), 27.3.d.25- 27.3.d.30 and 27.3.d.32	no			All	All	All	All		Salmon	SAL	60cm
		Baltic (IIIb-d), 27.3.d.31	no			All	All	All	All		Salmon	SAL	50 cm
	2018/306	Baltic (IIIb-d)	no			All	All	All	All		Plaice	PLE	25 cm

Table 3.5.2.1.2 - Landings and discards reported by MS to FDI data call and estimated for the fleets under exemptions proposed for 2020 in the Baltic Sea region, based on 2018 data.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings,	Discards without fillings		Discards with fill-ins	
							Weight,	Coverage	Weight,	Coverage %
Survivability	2018/211,Art3.1	Baltic (IIIb-d)	Salmon	2018	DEU	0.1	n.a.	n.a.	n.a.	n.a.
					DNK	c	c	c	c	
					LTU	0.3	n.a.	n.a.	n.a.	n.a.
					POL	0.1	n.a.	n.a.	n.a.	n.a.
					SWE	190.5	n.a.	n.a.	8	97%
					LVA	0.4	0.0	100%	0	100%
					EST	3.0	n.a.	n.a.	n.a.	n.a.
					FIN	185.7	9.0	100%	9	100%
					Total exemption	380.1	9.0	49%	17	98%

3.5.2.2 North Sea region

Table 3.5.2.2.1 - The anticipated exemptions for discard plans for 2020 in the North Sea region and the related FDI codes.

2020 - Part 1														
Exemption Article	Area	Description	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species codes	Procent/MCRS	
Deminimis 2018/189 Article 3	IVb-IVc (only south of 54!)	De minimis exemption for fishing vessels using pelagic trawlers up to 25 m and mid-water trawls (OTM-PTM) in 4b and 4c south of 54 degrees	Yes	Pelagic trawls, midwater trawls (up to 25m)	OTM-PTM	OTM-PTM	All	All	VL0010-VL1012-VL1218-VL1824	All	Herring	HER	1	
2018/189 Article 3	IVb-IVc (only south of 54!)	De minimis exemption for fishing vessels using pelagic trawlers up to 25 m and mid-water trawls (OTM-PTM) in 4b and 4c south of 54 degrees	Yes	Pelagic trawls, midwater trawls (up to 25m)	OTM-PTM	OTM-PTM	All	All	VL0010-VL1012-VL1218-VL1824	All	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	1	
2018/189 Article 3	IVb-IVc (only south of 54!)	De minimis exemption for fishing vessels using pelagic trawlers up to 25 m and mid-water trawls (OTM-PTM) in 4b and 4c south of 54 degrees	Yes	Pelagic trawls, midwater trawls (up to 25m)	OTM-PTM	OTM-PTM	All	All	VL0010-VL1012-VL1218-VL1824	All	Mackerel	MAC	1	
JR-xx .2019 Art.10.a	II-IIIa-IV	De minimis exemption for fishing vessels using trammel nets and gill nets (GN-GNS-GND-GNC-GTN-GTR-GEN-GNF) in 2a, 3a and 4	Yes	Trammel nets and gill nets	GN-GNS-GND-GNC-GTN-GTR-GEN-GNF	GND-GNS-GNC-GTR-GTN	All	All	All		Sole	Sol	3%	
JR-xx .2019 Art.10.b	IV	De minimis exemption for fishing vessels using TBB gear 80-119 mm with Flemish panel in the North Sea	Yes	Beam trawls	TBB	TBB	80-119	80D100-100D110-110D120	All	TBBFP	Sole	SOL	5%	
JR-xx .2019 Art.10.c	IIIa	Fish bycatch caught in Nephrops targeted trawl fishery	Yes	Bottom trawls	OTB-OTT-TBN	OTB-OTT-PTB	70-89	70S90	All	GRID35	Sole-haddock-whiting-cod-saithe and hake	SOL-HAD-WHG-COD-POK-HKE	4% of the total annual catches of Nephrops-common sole-haddock-whiting-Northern prawn-cod-saithe and hake	
JR-xx .2019 Art.10.d	IIIa	Fish bycatch caught in Northern prawn trawl fishery with sorting grid-with unblocked fish outlet in ICES area 3a	Yes	Bottom trawls	OTB-OTT	OTB-OTT	>35	32D80	All	GRID19	sole-haddock-whiting-cod-saithe-plaice-herring-Norway pout-greater silver smelt-blue whiting	SOL-HAD-WHG-COD-POK-PLA-HER-NOP-ARG-ARU-ARY-WHB	5% of the total annual catches of species under landing obligation (Norway lobster-common sole-haddock-whiting-hake-Northern prawn-cod-saithe-plaice-Norway pout-Argentina spp.-herring and blue whiting	
JR-xx .2019 Art.10.e	IVc	Whiting and cod for the vessels using bottom trawls or seines (OTB-OTT-SDN-SSC) of mesh size 70-99mm (TR2) in ICES division 4c	Yes	Bottom trawls-demersal seines	OTB-OTT-SDN-SSC	OTB-OTT-SDN-SSC	70-99	32D80-80D100	All		Whiting-cod	WHG-COD	5%-maximum of 2% can be used for cod	
JR-xx .2019 Art.10.f	Iva-Ivb	Whiting and cod for the vessels using bottom trawls or seines (OTB-OTT-SDN-SSC) of mesh size 70-99mm (TR2) in ICES division 4c	Yes	Bottom trawls-demersal seines	OTB-OTT-SDN-SSC	OTB-OTT-SDN-SSC	70-100	32D80-80D101	All		Whiting-cod	WHG-COD	6%-maximum of 2% can be used for cod	

Table 3.5.2.2.1 (continued) - The anticipated exemptions for discard plans for 2020 in the North Sea region and the related FDI codes.

2020 - Part 2														
Exemption Article	Area	Description	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species codes	Percent/MCRS	
Deminimis	JR-xx.2019 Art.10.g	IIIa	Whiting caught in bottom trawls 90-119 mm with SELTRA panels an bottom trawls with a mesh size of 120 mm and	Yes	Bottom trawls	OTB-OTT-TBN-PTB	OTB-OTT-PTB	90-119	80D100-100D110-110D120	All	SELTRA	Whiting	WHG	2% of the total annual catches of Nephrops-cod-haddock-whiting-saithe-common sole-
	JR-xx.2019 Art.10.h	IV	Whiting caught by beam trawls 80-119 mm in the North Sea ICES area 4	Yes	Beam trawls	TBB	TBB	80-119	80D100-100D110-110D120	All		Whiting	WHG	2% of catches of plaice and sole
	JR-xx.2019 Art.10.i	IV	Plaice by-catches in the Nephrops trawl fishery in combination with a technical measure (use of SepNep)	Yes	Bottom trawls	OTB-PTB	OTB-OTT-PTB	80-99	80D100	All	SEPNEP	Plaice	PLE	3 % of the total annual catches of saithe-plaice-haddock-whiting-cod-Northern prawn-sole and Nephrops
	JR-xx.2019 Art.10.j	IVb-IVc	By-catches in the brown shrimp fishery in the North Sea	Yes	Beam trawls	TBB	TBB		16D32	All		All species subject to catch limits	All	7 % of the total catch for all species subject to catch limits
	JR-xx.2019 Art.10.l	IV	Pelagic species under landing obligation for demersal vessels using bottom trawls (OTB-OTT-PTB-TBB) of mesh size 80-99mm (TR2-BT 2) in the North Sea	Yes	Bottom trawls-beam trawls	OTB-OTT-PTB-TBB	OTB-OTT-PTB-TBB	80-99	80D100	All		Mackerel	MAC	7% of the total annual catches of mackerel
	JR-xx.2019 Art.10.k	IV	Pelagic species under landing obligation for demersal vessels using bottom trawls (OTB-OTT-PTB-TBB) of mesh size 80-99mm (TR2-BT 2) in the North Sea	Yes	Bottom trawls-beam trawls	OTB-OTT-PTB-TBB	OTB-OTT-PTB-TBB	80-99	80D100	All		Horse mackerel	HOM-JAX-HMG	7% of the total annual catches of horse mackerel
	JR-xx.2019 Art.10.m	IIIa-IV	Fish bycatch caught in mixed fishery with trawl (OTB-OTM-OTT-PTB-PTM-SDN-SPR-SSC-TB-TBN) with mesh above 80 mm and caught in Northern prawn trawl fishery with sorting grid (19mm) or device above 35 mm	Yes	Trawls	OTB-OTM-OTT-PTB-PTM-SDN-SPR-SSC-TB-TBN	OTB-OTT-PTB-SDN-SSC	>80	80D100-100D110-110D120-120DXX	All		sprat-sandeel-Norway pout-blue whiting	SPR-SAD-NOP-WHB	1 % of the total annual catches made in mixed demersal fishery and fishery for Northern prawn
	JR-xx.2019 Art.10.n	IV	Ling (Molva molva) for vessels using longlines (LLS) in the North Sea (ICES area 4)	Yes	Longlines	LLS	LLS			All		Ling	LIN	3 % of the total annual catches of ling

Table 3.5.2.2.1 (continued) - The anticipated exemptions for discard plans for 2020 in the North Sea region and the related FDI codes.

2020 - Part 3													
Exemption Article	Area	Description	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Survivability JR-xx.2019 Art.6.1.a	IIIIa-IV	Catch of plaice by vessels using nets in ICES areas 3a and 4	Yes	Nets	GNS-GTR-GTN-GEN	GNS-GTR-GTN	All	All	All		Plaice	PLE	-
JR-xx.2019 Art.6.1.b		Catch of plaice by vessels using Danish seine in ICES areas 3a and 4	Yes	Danish seine	SDN	SDN		All	All		Plaice	PLE	-
JR-xx.2019 Art.6.1.c		Catch and by-catch of plaice by vessels using bottom trawls (OTB-PTB) of mesh sizes ≥ 120 mm in ICES areas 3a and 4	Yes	Bottom trawls	OTB-PTB	OTB-OTT-PTB	≥120	120DXX	All		Plaice	PLE	-
JR-xx.2019 Art.6.2.a	IIIIa	Catch of plaice with trawls (OTB-PTB) with mesh size 90-99mm with Seltra panel targetting flatfish and roundfish in ICES areas 3a	No	Trawls	OTB-PTB	OTB-OTT-PTB	90-99	80D100	All	SELTRA	Plaice	PLE	-
JR-xx.2019 Art.6.2.b	IV	Catch of plaice with trawls (OTB-PTB) with mesh size 80-99mm targetting flatfish and roundfish in ICES areas 4	Yes	Trawls	OTB-PTB	OTB-OTT-PTB	80-99	80D100	All		Plaice	PLE	-
JR-xx.2019 Art.4.1&2	IVc	Survival exemption for 'undersized' common sole (sole less than MCRS of 24cm) caught by 80-99mm otter trawl gears in ICES area 4c within 6 nautical miles of coasts-albeit outside identified nursery areas; vessellengt max 10 m and max engine power of 221 kw, depth less 30 m and tow duration less then 1:30 hours	No	Otter trawls	OTB	OTB	80-99	80D100	VL0010		Sole	SOL	-
JR-xx.2019 Art.3.1.b	II-IIIa-IV	Nephrops caught by demersal trawls with a cod end larger than 80mm (70mm/35mm)	Yes	Bottom trawls	OTB-OTT-PTB	OTB-OTT-PTB	>80	32D80 70S90 80D100-100D110-110D120-120DXX 120DXX 80D100-100D110-110D120	All All All All All	GRID19 GRID35 SELTRA NETGRID	Norway lobster	NEP	- - - - -
JR-xx.2019 Art.3.1.a	IIa-IIIa-IV	Nephrops caught using pots	Yes	Pots	FPO	FPO	NA	NA	All		Norway lobster	NEP	-
JR-xx.2019 Art.9	IIa-IIIa-IV	skates and rays caught by all fishing gears in the North Sea (areas 4-3a and EU waters of 2a)	Yes	All	All	All	All	All	All		Skates and rays	JAD-JDP-RJA-RJB-RJC-RJE-RJF-RJG-RJH-RJI-RJM-RJN-RJO-RJR-RJU-RJY-SKA-TTO-TTR	-
JR-xx.2019 Art.5	IIIIa-IV	Survivability of fish by-catches in pots (creels) and fyke nets	Yes	Pots and fyke nets	FPO-FYK	FPO-FYK	NA	NA	All		Haddock-whiting-cod-plaice-sole-hake-saithe	HAD-WHG-COD-PLE-SOL-HKE-POK	-
JR-xx.2019 Art.8	IV	Survival exemption for turbot caught by towed gears with a cod end larger than 80mm in ICES area 4	Yes	Towed gear	OTB-PTB-BT2	OTB-OTT-PTB-TBB	>80	80D100-100D110-110D120-120DXX	All		Turbot	TUR	-
JR-xx.2019 Art.7.1.a	IIa-IV	Survival exemption for plaice below MCRS caught by 80-119mm beamtrawl gears (BT2) in ICES area 2a and 4 with flip-up rope or Benthos release panel (BRP) - engine >221 kW	No	Beam trawls	TBB	TBB	80-119	80D100-100D110-110D120	All		Plaice	PLE	-
JR-xx.2019 Art.7.1.b	IIa-IV	Survival exemption for plaice below MCRS caught by 80-119mm beamtrawl gears (BT2) in ICES area 2a and 4 implementing the roadmap for the Fully Documented Fisheries	No	Beam trawls	TBB	TBB	80-119	80D100-100D110-110D120	All		Plaice	PLE	-
JR-xx.2019 Art.7.2	IIa-IV	Survival exemption for plaice below MCRS caught by 80-119mm beamtrawl gears (BT2) in ICES area 2a and 4 with engine <221 kW or less then 24m in twelve miles zone and tow duration less than ninety min.	No	Beam trawls	TBB	TBB	80-119	80D100-100D110-110D120	All		Plaice	PLE	-

Table 1.5.2.2.2 - Landings and discards reported by MS to FDI data call and estimated for the fleets under exemptions proposed for 2020 in the North Sea region, based on 2018 data.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
Deminimis	2018/189 Article 3	IVb-IVc (only south of 54!)	Herring	2018	DNK	839.8	n.a.	n.a.	n.a.	n.a.
			Herring	2018	ENG	15.3	n.a.	n.a.	n.a.	n.a.
					Total herring	855.1	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	DNK	8.5	n.a.	n.a.	n.a.	n.a.
					Total horse mackerel	8.5	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	DNK	45.7	n.a.	n.a.	0.0	1%
					Total mackerel	45.7	n.a.	n.a.	0.0	1%
Deminimis	JR-xx.2019 Art.10.d	IIIa	sole-haddock-whiting-cod-saithe-plaice-herring-Norway pout-greater silver smelt-blue whiting	2018	SWE	1.9	73.7	100%	73.7	100%
					Total exemption	1.9	73.7	100%	73.7	100%
Deminimis	JR-xx.2019	IIIa-IV	sprat-	2018	DNK	20.3	8.8	100%	8.8	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
	Art.10.m		sandeel-Norway pout-blue whiting	2018	ENG	0.0	n.a.	n.a.	n.a.	n.a.
				2018	FRA	0.1	n.a.	n.a.	n.a.	n.a.
				2018	SWE	0.0	12.3		12.3	
				2018	SWE	0.3	56.2	92%	56.2	92%
					Total exemption	20.6	77.2	100%	77.2	100%
Deminimis	JR-xx.2019 Art.10.c	IIIa	Sole-haddock-whiting-cod-saithe and hake	2018	SWE	2.6	40.7	100%	40.7	100%
					Total exemption	2.6	40.7	100%	40.7	100%
Deminimis	JR-xx.2019 Art.10.b	IV	Sole	2018	BEL	268.2	41.9	100%	41.9	100%
			Sole	2018	NLD	2,713.2	421.7	100%	421.7	100%
				Total exemption	2,981.4	463.6	100%	463.6	100%	
Deminimis	JR-xx.2019 Art.10.g	IIIa	Whiting	2018	DNK	123.4	1,030.1	98%	1,263.7	100%
			Whiting	2018	SWE	22.3	80.2	100%	80.2	100%
			Whiting	2018	DEU	0.3	n.a.	21%	0.0	100%
			Whiting	2018	DNK	15.7	5.3	100%	5.3	100%
			Whiting	2018	SWE	6.6	8.4	100%	8.4	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	168.2	1123.9	100%	1357.6	100%
Deminimis	JR-xx.2019 Art.10.n	IV	Ling	2018	DNK	c	c	n.a.	n.a.	n.a.
			Ling	2018	ENG	143.8	n.a.	n.a.	n.a.	n.a.
			Ling	2018	FRA	359.1	34.4	58%	34.4	58%
			Ling	2018	SCO	311.9	n.a.	n.a.	n.a.	n.a.
			Ling	2018	SWE	0.0	n.a.	n.a.	n.a.	n.a.
								Total exemption	815.1	34.4
Deminimis	JR-xx.2019 Art.10.f	IVa-IVb	Whiting-cod	2018	BEL	37.6	n.a.	n.a.	112.5	39%
			Whiting-cod	2018	DEU	32.2	8.3	26%	147.5	41%
			Whiting-cod	2018	DNK	7.0	n.a.	46%	0.0	53%
			Whiting-cod	2018	ENG	250.2	341.4	76%	341.4	100%
			Whiting-cod	2018	FRA	143.4	502.8	67%	503.2	79%
			Whiting-cod	2018	NIR	0.9	n.a.	n.a.	2.3	100%
			Whiting-cod	2018	NLD	130.7	84.5	0%	111.2	10%
			Whiting-cod	2018	SCO	187.1	2,473.2	67%	2,473.2	99%
			Whiting-cod	2018	SWE	8.0	n.a.	n.a.	n.a.	n.a.
								Total exemption	797.0	3,410.3
Deminimis	JR-xx.2019 Art.10.k	IV	Horse Mackerel	2018	BEL	0.1	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	DEU	0.0	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ENG	0.4	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Horse Mackerel	2018	FRA	50.3	1.6	21%	1.6	37%
			Horse Mackerel	2018	NLD	45.4	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	SCO	0.7	n.a.	n.a.	n.a.	n.a.
					Total exemption	97.0	1.6	11%	1.6	19%
Deminimis	JR-xx.2019 Art.10.1	IV	Mackerel	2018	BEL	0.4	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	DEU	0.7	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	DNK	c	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ENG	6.8	n.a.	n.a.	9.2	21%
			Mackerel	2018	FRA	549.4	1.8	0%	1.8	7%
			Mackerel	2018	NLD	26.1	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	SCO	3.7	23.5	63%	23.5	100%
		Total exemption	587.0	25.3	0%	34.5	7%			
Deminimis	JR-xx.2019 Art.10.h	IV	Whiting	2018	BEL	13.3	41.8	100%	41.8	100%
			Whiting	2018	DEU	9.8	262.1	99%	262.1	99%
			Whiting	2018	ENG	8.2	n.a.	n.a.	n.a.	n.a.
			Whiting	2018	FRA	0.1	n.a.	n.a.	6.1	100%
			Whiting	2018	NLD	335.0	1,567.6	100%	1,567.6	100%
			Whiting	2018	SCO	0.1	n.a.	n.a.	n.a.	n.a.
		Total exemption	366.4	1,871.5	98%	1,877.6	98%			
Deminimis	JR-xx.2019	IVc	Whiting-cod	2018	BEL	16.9	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
	Art.10.e		Whiting-cod	2018	ENG	25.9	n.a.	n.a.	94.2	41%
			Whiting-cod	2018	FRA	709.7	115.0	11%	115.0	52%
			Whiting-cod	2018	NLD	180.8	96.4	0%	99.6	2%
			Whiting-cod	2018	SCO	7.7	65.7	58%	65.7	100%
					Total exemption			941.0	277.1	9%
Deminimis	JR-xx.2019 Art.10.a	II-IIIa-IV	Sole	2018	BEL	44.3	n.a.	n.a.	n.a.	n.a.
			Sole	2018	DEU	84.4	n.a.	n.a.	-	0%
			Sole	2018	DNK	422.4	0.0	17%	0.0	17%
			Sole	2018	ENG	54.4	2.1	21%	2.1	22%
			Sole	2018	FRA	431.8	n.a.	n.a.	n.a.	n.a.
			Sole	2018	NLD	62.0	n.a.	n.a.	n.a.	n.a.
			Sole	2018	SCO	0.0	n.a.	n.a.	n.a.	n.a.
			Sole	2018	SWE	8.5	n.a.	n.a.	0.0	0%
					Total exemption			1,107.8	2.1	7%
Survivability	JR-xx.2019 Art.3.1.b	II-IIIa-IV	Norway lobster	2018	DNK	132.2	1.1	97%	1.1	97%
			Norway lobster	2018	ENG	15.8	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	NIR	1.2	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	NLD	c	c	c	n.a.	n.a.
			Norway lobster	2018	SCO	520.9	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	SWE	8.7	22.1	100%	22.1	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Norway lobster	2018	SWE	6.3	4.3	100%	4.3	100%
			Norway lobster	2018	SWE	804.4	352.0	100%	352.0	100%
			Norway lobster	2018	DNK	4,523.4	641.8	100%	642.4	100%
			Norway lobster	2018	SWE	719.8	195.5	100%	195.5	100%
					Total exemption	6,732.8	1,216.8	92%	1,217.4	92%
Survivability	JR-xx.2019 Art.3.1.a	IIa-IIIa-IV	Norway lobster	2018	ENG	14.6	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	SCO	18.1	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	SWE	323.4	19.8	100%	19.8	100%
					Total exemption	356.2	19.8	91%	19.8	91%
Survivability	JR-xx.2019 Art.6.1.a	IIIa-IV	Plaice	2018	BEL	7.4	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	DEU	13.9	n.a.	n.a.	0.0	3%
			Plaice	2018	DNK	4,010.5	2.4	45%	2.4	45%
			Plaice	2018	ENG	7.0	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	FRA	39.8	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	NLD	1.3	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	SCO	0.2	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	SWE	19.5	n.a.	n.a.	0.0	8%
					Total exemption	4,099.6	2.4	44%	2.4	44%
Survivability	JR-xx.2019 Art.9	IIa-IIIa-IV	Skates and rays	2018	BEL	212.2	n.a.	n.a.	130.2	3%
			Skates and rays	2018	DEU	45.1	50.9	40%	52.4	40%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Skates and rays	2018	DNK	211.5	12.8	95%	19.0	95%
			Skates and rays	2018	ENG	357.6	28.3	6%	28.3	6%
			Skates and rays	2018	FRA	37.1	47.7	23%	48.4	24%
			Skates and rays	2018	NIR	0.1	n.a.	n.a.	n.a.	n.a.
			Skates and rays	2018	NLD	383.2	969.9	70%	970.5	70%
			Skates and rays	2018	SCO	453.1	n.a.	n.a.	n.a.	n.a.
			Skates and rays	2018	SWE	0.1	111.7	82%	111.7	82%
							Total exemption	1,700.0	1,221.4	30%
Survivability	JR-xx.2019 Art.5	IIIa-IV	Haddock-whiting-cod-plaice-sole-hake-saithe	2018	ENG	33.0	n.a.	n.a.	n.a.	n.a.
			Haddock-whiting-cod-plaice-sole-hake-saithe	2018	FRA	0.3	n.a.	n.a.	n.a.	n.a.
			Haddock-whiting-cod-plaice-sole-hake-saithe	2018	SCO	7.7	n.a.	n.a.	n.a.	n.a.
			Haddock-whiting-cod-plaice-sole-hake-saithe	2018	SWE	1.5	14.5	97%	14.6	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	42.4	14.5	3%	14.6	4%
Survivability	JR-xx.2019 Art.6.1.b	IIIa-IV	Plaice	2018	DEU	9.9	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	DNK	1,735.1	293.0	88%	294.2	89%
			Plaice	2018	FRA	4.9	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	SCO	52.2	2.1	100%	2.1	100%
			Plaice	2018	SWE	18.2	1.1	98%	1.1	98%
						Total exemption		1,820.3	296.2	88%
Survivability	JR-xx.2019 Art.6.1.c	IIIa-IV	Plaice	2018	BEL	c	c	c.	c	c
			Plaice	2018	DEU	19.5	1.8	88%	1.9	100%
			Plaice	2018	DNK	4,990.7	69.1	100%	69.3	100%
			Plaice	2018	ENG	419.4	8.4	0%	25.4	100%
			Plaice	2018	NIR	0.1	n.a.	n.a.	0.0	100%
			Plaice	2018	NLD	927.5	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	SCO	1,422.2	57.6	99%	57.7	100%
			Plaice	2018	SWE	26.7	11.5	93%	11.5	100%
						Total exemption		7,825.3	148.4	82%
Survivability	JR-xx.2019 Art.8	IV	Turbot	2018	BEL	260.7	18.8	39%	19.9	46%
			Turbot	2018	DEU	298.4	30.1	53%	30.2	53%
			Turbot	2018	DNK	162.8	0.3	70%	0.3	71%
			Turbot	2018	ENG	231.5	n.a.	n.a.	14.4	26%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings				
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings			
			Turbot	2018	FRA	10.8	0.0	1%	0.0	5%			
			Turbot	2018	NIR	0.3	n.a.	n.a.	0.3	100%			
			Turbot	2018	NLD	1,846.4	197.8	5%	219.9	88%			
			Turbot	2018	SCO	129.3	1.8	75%	1.8	78%			
			Turbot	2018	SWE	0.9	n.a.	n.a.	0.0	100%			
					Total exemption	2,941.1	248.7	19%	286.8	74%			
			Survivability	JR-xx.2019 Art.6.2.b	IV	Plaice	2018	BEL	668.8	n.a.	n.a.	831.1	60%
						Plaice	2018	DEU	742.2	227.1	9%	250.7	36%
Plaice	2018	DNK				126.3	n.a.	n.a.	12.6	11%			
Plaice	2018	ENG				90.1	95.6	59%	114.4	77%			
Plaice	2018	FRA				64.9	15.2	2%	21.6	25%			
Plaice	2018	NIR				0.4	n.a.	n.a.	2.3	100%			
Plaice	2018	NLD				780.2	1,752.9	n.a.	1,815.2	51%			
Plaice	2018	SCO				23.9	272.9	51%	273.3	100%			
		Total exemption	2,496.8	2,363.7	5%	3,321.2	48%						

3.5.2.3 North Western Waters

Table 3.5.2.3.1 - The anticipated exemptions for discard plans for 2020 in the North Western Waters and the related FDI codes.

2020 - part 1													
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Legislation mesh size	Mesh size regulation	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Deminimis	190/2018 Article 3a.a	Vb-VI-VII	yes	pelagic trawls		OTM-PTM	All	All	All	All	Blue whiting	WHB	5
	190/2018 Article 3a.b	VII	yes	midwater pair trawl	PTM	PTM	All	All	All	All	Albacore tuna	ALB	
	190/2018 Article 3a.c	VId	yes	Pelagic trawls, midwater trawls (up to 25m)	OTM-PTM	OTM-PTM	All	All	VL0010-VL1012-VL1218-VL1824	All	Mackerel	MAC	1
	190/2018 Article 3a.c		yes								Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	190/2018 Article 3a.c		yes								Herring	HER	
	190/2018 Article 3a.c		yes								Whiting	WHG	
	XX/2019 Article 8.a	VId	yes	Bottom trawls , Seines	OTB-OTT-OT-PTB-PT-SSC-SDN-SPR-SX-SV-TBN-TBS-TB-TX	OTB-OTT-PTB-SDN-SPR-SSC-SV	<80	80D100-100D110-110D120 -120DXX	All	All	Whiting	WHG	5
			yes	Pelagic trawls	OTM-PTM	OTM-PTM	All	All	All	All	Whiting	WHG	5
			yes	Beam trawl	BT2	TBB	80-119	80D100-100D110-110D120	All	All	Whiting	WHG	5
	XX/2019 Article 8.b	VId-VIle-VIIf-VIlg	yes	Trammel and gill nets	GN-GNS-GND-GNC-GTN-GTR-GEN-GNF	GND-GNS-GNC-GTR-GTN	All	All	All	All	Sole	SOL	3
	XX/2019 Article 8.c		yes	Beam trawl	TBB	TBB	80-119	80D100-100D110-110D120	All	TBBFP	Sole	SOL	3
	XX/2019 Article 8.d	VIIb-c and VIle-k	yes	Bottom trawls , Seines, beam trawls	OTB-OTT-OT-PTB-PT-SSC-SDN-SPR-SX-SV-TBB-TBN-TBS-TB-TX	OTB-OTT-PTB-SDN-SPR-SSC-SV-TBB	>80	80D100-100D110-110D120	All	All	Haddock	HAD	5
	XX/2019 Article 8.e	VI and VIIb-k	yes	Bottom trawls , Seines, beam trawls	OTB-OTT-OT-PTB-PT-SSC-SDN-SPR-SX-SV-TBB-TBN-TBS-TB-TX	OTB-OTT-PTB-SDN-SPR-SSC-SV-TBB	All	All	All	All	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	7
XX/2019 Article 8.f	yes		Bottom trawls , Seines, beam trawls		OTB-OTT-PTB-SDN-SPR-SSC-SV-TBB	All	All	All	All	Makerel	MAC	7	
XX/2019 Article 8.g	VIIa-VIIj-VIIk	yes	Beam trawl	BT2	TBB	80-119	80D100-100D110-110D120	All	TBBFP	Sole	SOL	3	

Table 3.5.2.3.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the North Western Waters and the related FDI codes.

2020 - part 2													
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Legislation mesh size	Mesh size regulation	Vessel length	SPECON	Species	Species codes	Procent/MCRS
<i>Deminimis</i>	XX/2019 Article 8.h	VII	yes	Bottom trawls		OTB-OTT-PTB	70-99	80D100-70D80	All	All	Megrim	MEG-LDB-LEZ	5
			yes	Beam trawl	BT2	TBB	80-119	80D100-100D110-110D120	All	All	Megrim	MEG-LDB-LEZ	5
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Legislation mesh size	Mesh size regulation	Vessel length	SPECON	Species	Species codes	Procent/MCRS
	XX/2019 Article 8.i	VIIb-c and VIIf-k	yes	Bottom trawls	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTB-OTT-PTB	All	All	All	All	Boarfish	BOR-BOC-ZAC-ZAI-EVI-PZH-RIG-SWH-ENV-EMV-ZAL	0.5
	XX/2019 Article 8.j	Vb-VI	yes	Bottom trawls	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTB-OTT-PTB	>100	100D110, 110D120, 120DXX	All	All	Great silver smelt	ARG-ARU-ARY	0.6
	XX/2019 Article 8.k	Vla	yes	Bottom trawls	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTB-OTT-PTB	<119	32D70 - 70D80 - 80D100-100D110-110D120	All	All	Haddock	HAD	3
	XX/2019 Article 8.l	VIIa	no	Combined species below MCRS	Beam trawl	TBB	TBB	>31	32D80	All	Plaice	PLE	0.85
											Whiting	WHG	0.15

Table 3.5.2.3.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the North Western Waters and the related FDI codes.

2020 - part 3													
Survivability	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Legislation mesh size	Mesh size regulation	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Survivability	1393/2014 Article 2	VI	no	pelagic purse seines		PS	All	All	All	All	Makerel	MAC	-
	1393/2014 Article 2		no			PS	All	All	All	All	Herring	HER	-
	190/2018 Article 2	Vile - VIIf	no	ring net fishery targeting pelagic		LA	All	All	All	All	Makerel	MAC	-
	190/2018 Article 2		no			LA	All	All	All	All	Herring	HER	-
	XX/2019 Article 3.1.a	VI-VII	Yes	Pots,traps,creel	FPO-FIX-FYK	FPO-FPN-FYK	All	All	All	All	Norway Lobster	NEP	-
	XX/2019 Article 3.1.b	VII	Yes	Bottom trawls	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTT-OTT-PTB	>100	100D110, 110D120, 120DXX	All	All	Norway Lobster	NEP	-
	XX/2019 Article 3.1.c						70-99	80D100-70D80	All	SELTRA-GRID35	Norway Lobster	NEP	-
	XX/2019 Article 3.1.d	Vla - within 12 NM	no	Otter trawls	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTT-OTB-OTM	80-110	80D100,110D120	All	All	Norway Lobster	NEP	-
	XX/2019 Article 4.1.a,b	VIIId	no	Otter trawls, max power 221kW, depth 30m, duration 1:30 h	OTT-OTB-TBS-TBN-TB-PTB-OT-PT-TX	OTT-OTB-OTM	80-99	80D100	VL0010	All	Sole	SOL	-
	XX/2019 Article 5	VI-VII	Yes	All		All	All	All	All	All	Skates & rays	SRX-JAD-JDP-RJA-RJB-RJC-RJE-RJF-RJG-RJH-RJI-RJM-RJN-RJO-RJR-RJU-RJY-SKA-TTO-TTR	-
	XX/2019 Article 6.1.a	VIIId,VIIe,VIIf and VIIfg	Yes	Trammel nets	GTR-GTN-GEN-GN	GND-GNS-GNC-GTR-GTN	All	All	All	All	Plaice	PLE	-
	XX/2019 Article 6.1.b		Yes	Otter trawls	OTT,OTB,TBS,TBN,TB,PTB,OT,PT,TX	OTT-OTB-OTM	All	All	All	All	Plaice	PLE	-
	XX/2019 Article 6.1.c	VIIa-VIIk	no	Beam trawl, max power 221 kW, flip-up or bentic panel	TBB	TBB	All	All	All	SELTRA-GRID35	Plaice	PLE	-
	XX/2019 Article 6.1.d	VIIa-VIIk	no	Beam trawl, max power 221 kW, or max 24m, within 12 nm, duration 1:30 h	TBB	TBB	All	All	All	All	Plaice	PLE	-
XX/2019 Article 6.1.e	VIIId	Yes	Danish seines	SDN	SDN	All	All	All	All	Plaice	PLE	-	
XX/2019 Article 7	V (excl Va)-Vb-VI-VII	no	Pots,traps,creel	FPO-FIX-FYK	FPO-FPN	All	All	All	All	All	-	-	

Table 3.5.2.3.2 - Landings and discards reported by MS to FDI data call and estimated for the fleets under exemptions proposed for 2020 in the North Western Waters, based on 2018 data.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
Deminimis	190/2018 Article 3a.a	Vb-VI-VII	Blue whiting	2018	DEU	35,318.7	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	DNK	87,258.7	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	ENG	1,857.0	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	ESP	735.9	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	FRA	15,736.9	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	IRL	49,903.1	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	NIR	4,508.5	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	NLD	112,312.5	n.a.	n.a.	n.a.	n.a.
			Blue whiting	2018	POL	c	c	c	c	c
			Blue whiting	2018	SCO	60,420.3	n.a.	n.a.	n.a.	n.a.
				Total exemption	380,014.3	n.a.	n.a.	n.a.	n.a.	
Deminimis	190/2018 Article 3a.b	VII	Albacore tuna	2018	FRA	2,108.0	n.a.	n.a.	n.a.	n.a.
			Albacore tuna	2018	IRL	919.2	n.a.	n.a.	n.a.	n.a.
					Total exemption	3,027.1	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
Deminimis	190/2018 Article 3a.c	VIId	Mackerel	2018	FRA	445.2	0.4	89%	0.4	89%
			Horse Mackerel	2018	FRA	25.9	1.6	68%	1.6	68%
			Herring	2018	FRA	4.5	0.0	1%	0.0	96%
			Whiting	2018	FRA	16.7	n.a.	n.a.	n.a.	n.a.
Deminimis	XX/2019 Article 8.b	VIId-VIIe-VIIIf-VIIg	Sole	2018	ENG	353.6	9.6	76%	9.6	76%
			Sole	2018	FRA	735.8	20.1	92%	20.1	92%
			Sole	2018	IRL	c	c	c	c	c
					Total exemption	1,089.4	29.7	87%	29.7	87%
Deminimis	XX/2019 Article 8.a	VIId	Whiting	2018	BEL	94.1	n.a.	n.a.	0.9	1%
			Whiting	2018	ENG	237.5	26.9	12%	26.9	12%
			Whiting	2018	FRA	2,413.1	3,882.5	75%	3,882.5	75%
			Whiting	2018	NIR	0.0	n.a.	n.a.	0.0	100%
			Whiting	2018	NLD	460.6	n.a.	n.a.	n.a.	n.a.
			Whiting	2018	SCO	39.9	n.a.	n.a.	n.a.	n.a.
					Sub Total	3,245.2	3,909.4	56%	3,910.3	56%
		VIId	Whiting	2018	FRA	153.8	n.a.	n.a.	n.a.	n.a.
			Whiting	2018	NLD	c	c	n.a.	n.a.	n.a.
			Sub Total	c	n.a.	n.a.	n.a.	n.a.		

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		VIIId	Whiting	2018	BEL	43.6	137.2	100%	137.2	100%
			Whiting	2018	ENG	0.1	n.a.	n.a.	n.a.	n.a.
			Whiting	2018	FRA	0.9	n.a.	n.a.	n.a.	n.a.
					Sub Total	44.6	137.2	98%	137.2	98%
Deminimis	XX/2019 Article 8.i	VIIb-c and VIIf-k	Boarfish	2018	ESP	0.0	178.2		178.2	
			Boarfish	2018	IRL	c	c	n.a.	n.a.	n.a.
					Total exemption	0.5	178.2	n.c⁵	178.2	n.c.
Deminimis	XX/2019 Article 8.j	Vb-VI	Great silver smelt	2018	SCO	0.2	n.a.	n.a.	n.a.	n.a.
					Total exemption	0.2	n.a.	n.a.	n.a.	n.a.
Deminimis	XX/2019 Article 8.h	VII	Megrim	2018	BEL	21.7	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	ENG	251.0	0.2	0%	0.2	0%
			Megrim	2018	ESP	835.3	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	FRA	1,270.5	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	IRL	474.7	2.7	2%	2.7	2%
			Megrim	2018	NIR	3.4	n.a.	n.a.	-	0%
					Sub Total	2,856.6	3.0	0%	3.0	0%

⁵ Discards with 0 landings

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Megrim	2018	BEL	310.8	62.7	100%	62.7	100%
			Megrim	2018	ENG	568.2	96.8	100%	96.8	100%
			Megrim	2018	IRL	532.9	n.a.	n.a.	n.a.	n.a.
					Sub Total		1,411.9	159.5	62%	159.5
Deminimis	XX/2019 Article 8.d	VIIb-c and VIIe-k	Haddock	2018	BEL	88.7	515.0	83%	515.0	83%
			Haddock	2018	ENG	296.2	1,072.4	91%	1,072.4	91%
			Haddock	2018	FRA	4,310.7	10,104.0	62%	10,195.9	65%
			Haddock	2018	IRL	1,178.4	52.3	7%	52.3	33%
			Haddock	2018	NIR	73.6	n.a.	n.a.	50.6	35%
			Haddock	2018	NLD	c	c	c	c	c
			Haddock	2018	SCO	78.4	n.a.	n.a.	6.0	1%
					Total exemption	6,026.1	11,743.7	51%	11,892.2	59%
Deminimis	XX/2019 Article 8.g	VIIa-VIIj-VIIk	Sole	2018	BEL	18.0	0.5	74%	0.5	74%
					Total exemption	18.0	0.5	74%	0.5	74%
Deminimis	XX/2019 Article 8.c	VIIId-VIIe-VIIIf-VIIg	Sole	2018	BEL	1,285.6	155.5	100%	155.5	100%
					Total exemption	1,285.6	155.5	100%	155.5	100%
Deminimis	XX/2019 Article 8.e	VI and VIIb-k	Horse Mackerel	2018	BEL	37.7	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ENG	62.1	28.3	8%	28.3	8%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Horse Mackerel	2018	ESP	0.4	450.8	0%	450.8	0%
			Horse Mackerel	2018	FRA	428.7	322.2	35%	322.2	74%
			Horse Mackerel	2018	IRL	3.9	33.8	0%	33.8	0%
			Horse Mackerel	2018	NIR	0.2	n.a.	n.a.	1.1	100%
			Horse Mackerel	2018	NLD	273.5	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	SCO	19.5	n.a.	n.a.	n.a.	n.a.
					Total exemption			826.0	835.2	19%
Deminimis	XX/2019 Article 8.f	VI and VIIb-k	Mackerel	2018	BEL	57.6	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ENG	99.7	37.4	6%	37.4	6%
			Mackerel	2018	ESP	-	279.0	0%	279.0	#DIV/0!
			Mackerel	2018	FRA	2,974.6	31.1	26%	31.1	89%
			Mackerel	2018	GBJ	0.3	n.a.	n.a.	1.8	100%
			Mackerel	2018	IRL	47.1	7.9	0%	7.9	0%
			Mackerel	2018	NIR	0.1	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	NLD	398.9	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	SCO	1,830.1	88.7	0%	90.6	0%
		Total exemption			5,408.4	444.1	15%	447.8	49%	
Deminimis	XX/2019 Article 8.k	VIa	Haddock	2018	ENG	1.5	n.a.	n.a.	16.3	100%
			Haddock	2018	ESP	27.5	n.a.	n.a.	0.5	31%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Haddock	2018	FRA	17.4	0.2	0%	0.2	95%
			Haddock	2018	IRL	359.1	12.9	4%	19.9	85%
			Haddock	2018	NIR	26.9	n.a.	n.a.	50.1	88%
			Haddock	2018	SCO	102.2	776.2	58%	777.5	98%
					Total exemption	534.5	789.3	14%	864.5	85%
Survivability	XX/2019 Article 3.1.a	VI-VII	Norway lobster	2018	ENG	0.2	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	IRL	c	c	c	c	c
			Norway lobster	2018	NIR	10.4	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	SCO	1,316.5	n.a.	n.a.	n.a.	n.a.
					Total exemption	1,327.1	n.a.	n.a.	n.a.	n.a.
Survivability	XX/2019 Article 6.1.a	VIIId-VIIe-VIIIf-VIIg	Plaice	2018	ENG	266.1	155.8	75%	155.8	75%
			Plaice	2018	FRA	254.7	337.0	96%	337.0	96%
			Plaice	2018	IRL	c	c	c	c	c
					Total exemption	520.8	493.0	85%	493.0	85%
Survivability	XX/2019 Article 6.1.b	VIIId-VIIe-VIIIf-VIIg	Plaice	2018	BEL	20.1	n.a.	n.a.	0.9	1%
			Plaice	2018	ENG	716.3	346.8	99%	346.8	99%
			Plaice	2018	FRA	1,915.3	4,717.6	89%	4,717.6	89%
			Plaice	2018	GBG	0.0	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Plaice	2018	GBJ	0.5	n.a.	n.a.	0.2	84%
			Plaice	2018	IRL	38.0	n.a.	n.a.	3.3	33%
			Plaice	2018	NIR	2.5	n.a.	n.a.	0.7	72%
			Plaice	2018	SCO	7.6	n.a.	n.a.	1.9	72%
					Total exemption			2,700.4	5,064.4	89%
Survivability	XX/2019 Article 6.1.e	VIId	Plaice	2018	FRA	42.4	n.a.	n.a.	n.a.	n.a.
					Total exemption	42.4	n.a.	n.a.	n.a.	n.a.
Survivability	XX/2019 Article 3.1.b	VII	Norway lobster	2018	ENG	3.4	n.a.	n.a.	0.1	15%
			Norway lobster	2018	ESP	123.2	2.8	7%	16.9	37%
			Norway lobster	2018	FRA	273.0	2.5	21%	2.6	21%
			Norway lobster	2018	IRL	2,474.8	52.7	11%	62.2	24%
			Norway lobster	2018	NIR	231.3	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	SCO	594.6	n.a.	n.a.	n.a.	n.a.
					Total exemption			3,700.4	57.9	9%
Survivability	XX/2019 Article 5	VI-VII	Skates & rays	2018	BEL	928.7	n.a.	n.a.	n.a.	n.a.
			Skates & rays	2018	DEU	0.5	n.a.	n.a.	n.a.	n.a.
			Skates & rays	2018	ENG	1,917.2	2,777.7	26%	2,790.5	28%
			Skates & rays	2018	ESP	557.0	146.3	20%	146.4	20%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Skates & rays	2018	FRA	4,840.8	1,682.4	60%	1,682.4	60%
			Skates & rays	2018	GBG	41.3	n.a.	n.a.	6.6	0%
			Skates & rays	2018	GBJ	47.8	n.a.	n.a.	78.2	3%
			Skates & rays	2018	IRL	8.5	0.2	0%	0.2	0%
			Skates & rays	2018	NIR	92.0	n.a.	n.a.	52.9	3%
			Skates & rays	2018	NLD	25.6	n.a.	n.a.	n.a.	n.a.
			Skates & rays	2018	SCO	401.4	n.a.	n.a.	43.7	3%
					Total exemption	8,860.8	4,606.6	40%	4,800.9	40%

3.5.2.4 South Western Waters

Table 3.5.2.4.1 - The anticipated exemptions for discard plans for 2020 in the South Western Waters and the related FDI codes.

		2020 part 1											
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species codes	Percent/MCRS	
Deminimis	2018/188 Article 3.a	VIII	yes	Industrial pelagic trawl fishery	OTM	OTM-PTM	All	All	All	All	Blue whiting	WHB	5
	2018/188 Article 3.b		yes	Midwater pair trawl	PTM	PTM	All	All	All	All	Albacore tuna	ALB	
	2018/188 Article 3.c		yes	Pelagic trawls (midwater trawls)	OTM	OTM	All	All	All	All	Anchovy	ANE	4
	2018/188 Article 3.c		yes		OTM	OTM	All	All	All	All	Mackerel	MAC	
	2018/188 Article 3.c		yes		OTM	OTM	All	All	All	All	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	2018/188 Article 3.d	VIII-IX-X-CECAF 34.1.1-34.1.2-34.2.0	yes	Purse seines	PS	PS	All	All	All	All	Anchovy	ANE	1
	2018/188 Article 3.d		yes		PS	PS	All	All	All	All	Mackerel	MAC	
	2018/188 Article 3.d		yes		PS	PS	All	All	All	All	Horse mackerel and jack mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	4
	DA XX/2019 Article 6.1.a	VIII-IX	yes	Trawls and seines	OTT-OTB-PTB-OT-PT-TBN-TBS-TX-SSC-SPR-TB-SDN-SX-SV	OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Hake	HKE	5
	DA XX/2019 Article 6.1.b	VIIIa-VIIIb	yes	Beam and bottom trawls	TBB-OTB-OTT-PTB-TBN-TBS-TB-OT-PT-TX	TBB-OTB-OTT-PTB	All	All	All	All	Sole	SOL	5
DA XX/2019 Article 6.1.c	yes		Trammel and gill nets	GNS-GN-GND-GNC-GTN-GTR-GEN	GNS-GND-GNC-GTN-GTR	All	All	All	All	3			
DA XX/2019 Article 6.1.d	X	yes	Hooks and lines	LHM-LHP-LLD-LLS	LHM-LHP-LLD-LLS	All	All	All	All	Alfonsinos	ALF-BRX	5	
DA XX/2019 Article 6.1.e	VIII-IX	yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	7	
DA XX/2019 Article 6.1.f	VIII-IX-X-CECAF 34.1.1-34.1.2-34.2.0	yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			3	
DA XX/2019 Article 6.1.g	VIII-IX	yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Mackerel	MAC	7	
DA XX/2019 Article 6.1.h	VIII-IX-CECAF 34.1.1-34.1.2-34.2.0	yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All	Mackerel	MAC	3	

Table 3.5.2.4.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the South Western Waters and the related FDI codes.

2020 part 2														
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Mesh size FDI	Vessel length	SPECON	Species	Species codes	Procent/MCRS		
Deminimis	DA XX/2019 Article 6.1.i	VIII-IX	yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Megrim	MEG-LDB-LEZ	5	
	DA XX/2019 Article 6.1.j		yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			4	
	DA XX/2019 Article 6.1.k		yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Plaice	PLE	5	
	DA XX/2019 Article 6.1.l		yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			3	
	DA XX/2019 Article 6.1.m		yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Anglerfish	MON-ANK-ANG-MVA-MVO-MVJ-MVN-MNZ-LHS-LHU-KZZ-IDZ-IVV-ANF	5	
	DA XX/2019 Article 6.1.n		yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			4	
	DA XX/2019 Article 6.1.o	VIII	yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Whiting	WHG	5	
	DA XX/2019 Article 6.1.p		yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			4	
	DA XX/2019 Article 6.1.q	VIII-IX	yes	Beam trawls, bottom trawls and seines	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX-SSC-SPR-SDN-SX-SV	TBB-OTT-OTB-PTB-OTM-PTM-SDN-SPR-SSC-SV	All	All	All	All	Pollack	POL	5	
	DA XX/2019 Article 6.1.r		yes	Gillnets	GNS-GND-GNC-GTN-GTR	GNS-GND-GNC-GTN-GTR	All	All	All	All			2	
Survivability	2018/188 Article 2	VIII-IX-X-CECAF 34.1.1-34.1.2-34.2.0	no	Artisanal purse seine	-	SB	All	All	All	All	Anchovy	ANE	-	
	2018/188 Article 2		no		-	SB	All	All	All	All	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	-	
	2018/188 Article 2		no		-	SB	All	All	All	All	Jack Mackerel	JAA	-	
	2018/188 Article 2		no		-	SB	All	All	All	All	Mackerel	MAC	-	
	DA XX/2019 Article 3	VIII-IX	yes	Bottom trawls	OTB-OTT-PTB-TBN-TBS-TBB-OT-PT-TX	OTB-OTT-PTB-OTM-PTM-TBB	All	All	All	All	Norway Lobster	NEP	All	
	DA XX/2019 Article 4.1	VIII-IX	yes	All	-	All	All	All	All	All	Skates & rays	SRX-JAD-JDP-RJA-RJB-RJC-RJE-RJF-RJG-RJH-RJI-RJM-RJN-RJO-RJR-RJU-RJY-SKA-TTO-TTR	All	
	DA XX/2019 Article 4.4	VIII-IX	yes	Trammel nets	-	GNS-GND-GNC-GTN-GTR	All	All	All	All	All	Cukoo ray	RJN	All
		VIII	yes	Bottom trawls	-	OTB-OTT-PTB-OTM-PTM-TBB	All	All	All	All	All	Cukoo ray	RJN	All
	DA XX/2019 Article 4.5	IXa	no	Artisanal gear voracera	-	SB	All	All	All	All	All	Red seabream	SBR	All
		VIII-IXa-X	yes	Hooks and lines	LHM-LHP-LLD-LLS	LHM-LHP-LLD-LLS-LTL	All	All	All	All	All	Red seabream	SBR	All

Table 3.5.2.4.2 - Landings and discards reported by MS to FDI data call and estimated for the fleets under exemptions proposed for 2020 in the South Western Waters, based on 2018 data.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings		
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings	
Deminimis	2018/188 Article 3.a	VIII	Blue whiting	2018	ENG	0.9	n.a.	n.a.	n.a.	n.a.	
			Blue whiting	2018	ESP	0.2	0.0	100%	0.0	100%	
			Blue whiting	2018	FRA	0.3	n.a.	n.a.	n.a.	n.a.	
			Blue whiting	2018	IRL	c	c	c	c	c	
			Blue whiting	2018	NLD	c	c	c	c	c	
					Total exemption			2.9	0.0	7%	0.0
	2018/188 Article 3.b	VIII	Albacore tuna	2018	FRA	3,401.5	n.a.	n.a.	n.a.	n.a.	
			Albacore tuna	2018	IRL	2,182.9	n.a.	n.a.	n.a.	n.a.	
					Total exemption			5,584.5	n.a.	n.a.	n.a.
	2018/188 Article 3.c	VIII	Anchovy	2018	FRA	102.5	0.0	42%	0.0	42%	
					Total anchovy			102.5	0.0	42%	42%
			Mackerel	2018	DEU	420.7	n.a.	n.a.	n.a.	n.a.	
			Mackerel	2018	ENG	1,195.1	n.a.	n.a.	n.a.	n.a.	
			Mackerel	2018	ESP	13.7	1.1	n.a.	1.1	100%	
			Mackerel	2018	FRA	744.8	n.a.	n.a.	n.a.	n.a.	
			Mackerel	2018	NLD	c	c	n.a.	n.a.	n.a.	
					Total mackerel			3,130.2	1.1	0%	1.1
		Horse Mackerel	2018	DEU	548.8	n.a.	n.a.	n.a.	n.a.		

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings		
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings	
			Horse Mackerel	2018	ENG	1.8	n.a.	n.a.	n.a.	n.a.	
			Horse Mackerel	2018	ESP	0.0	n.a.	n.a.	n.a.	n.a.	
			Horse Mackerel	2018	FRA	218.9	n.a.	n.a.	n.a.	n.a.	
			Horse Mackerel	2018	NLD	c	c	c	c	c	
					Total horse mackerel	c	c	c	c	c	
	2018/188 Article 3.d	VIII-IX-X-CECAF 34.1.1-34.1.2-34.2.0	Anchovy	2018	ESP	32,913.0	0.9	13%	0.9	13%	
			Anchovy	2018	FRA	2,268.2	n.a.	n.a.	n.a.	n.a.	
			Anchovy	2018	PRT	7,911.9	n.a.	n.a.	-	37%	
					Total anchovy		43,093.0	0.9	10%	0.9	17%
			Mackerel	2018	ESP	9,908.8	10.2	2%	10.2	2%	
			Mackerel	2018	FRA	167.9	n.a.	n.a.	n.a.	n.a.	
			Mackerel	2018	PRT	196.0	n.a.	n.a.	7.3	76%	
					Total mackerel		10,272.7	10.2	2%	17.5	3%
			Horse mackerel and jack mackerel	2018	ESP	33,371.5	29.1	16%	29.1	16%	
			Horse mackerel and jack mackerel	2018	FRA	1,738.4	n.a.	n.a.	n.a.	n.a.	
			Horse mackerel and jack mackerel	2018	PRT	5,077.0	n.a.	n.a.	8.2	38%	
			Total horse mackerel and jack mackerel		40,186.9	29.1	13%	37.3	18%		
	DA XX/2019	VIII-IX-X-	Horse Mackerel	2018	ESP	785.8	6.7	16%	9.2	25%	

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings		
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings	
	Article 6.1.f	CECAF 34.1.1-34.1.2-34.2.0	Horse Mackerel	2018	FRA	50.3	n.a.	n.a.	n.a.	n.a.	
			Horse Mackerel	2018	PRT	595.2	n.a.	n.a.	0.8	5%	
						Total exemption	1,431.3	6.7	9%	10.0	16%
	DA XX/2019 Article 6.1.h	VIII-IX-CECAF 34.1.1-34.1.2-34.2.0	Mackerel	2018	ESP	296.6	26.0	28%	75.6	49%	
				Mackerel	2018	FRA	84.8	n.a.	n.a.	n.a.	n.a.
				Mackerel	2018	PRT	80.4	n.a.	n.a.	3.6	7%
							Total exemption	461.7	26.0	18%	79.2
	DA XX/2019 Article 6.1.r	VIII-IX	Pollack	2018	ENG	23.7	n.a.	n.a.	n.a.	n.a.	
				Pollack	2018	ESP	75.2	n.a.	n.a.	n.a.	n.a.
				Pollack	2018	FRA	708.1	5.2	99%	5.2	99%
				Pollack	2018	PRT	22.1	n.a.	n.a.	n.a.	n.a.
							Total exemption	829.0	5.2	84%	5.2
	DA XX/2019 Article 6.1.c	VIIIa-VIIIb	Sole	2018	ESP	0.0	n.a.	n.a.	n.a.	n.a.	
				Sole	2018	FRA	2,399.9	n.a.	n.a.	n.a.	n.a.
							Total exemption	2,399.9	n.a.	n.a.	n.a.
	DA XX/2019 Article 6.1.p	VIII	Whiting	2018	FRA	290.0	778.4	97%	778.4	98%	
							Total exemption	290.0	778.4	97%	778.4
	DA XX/2019	VIII-IX	Anglerfish	2018	ENG	18.7	n.a.	n.a.	n.a.	n.a.	

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
	Article 6.1.n		Anglerfish	2018	ESP	795.6	3.6	6%	14.7	8%
			Anglerfish	2018	FRA	1,538.7	n.a.	n.a.	n.a.	n.a.
			Anglerfish	2018	PRT	256.0	n.a.	n.a.	0.1	1%
			Anglerfish	2018	SCO	2.1	n.a.	n.a.	n.a.	n.a.
					Total exemption			2,611.1	3.6	2%
	DA XX/2019 Article 6.1.l	VIII-IX	Plaice	2018	ESP	1.1	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	FRA	43.0	1.0	98%	1.0	98%
			Plaice	2018	PRT	32.5	n.a.	n.a.	n.a.	n.a.
					Total exemption			76.6	1.0	55%
	DA XX/2019 Article 6.1.j	VIII-IX	Megrim	2018	ENG	0.0	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	ESP	20.2	0.0	0%	0.0	0%
			Megrim	2018	FRA	20.8	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	PRT	3.9	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	SCO	0.1	n.a.	n.a.	n.a.	n.a.
					Total exemption			45.0	0.0	0%
	DA XX/2019 Article 6.1.a	VIII-IX	Hake	2018	ENG	0.2	n.a.	n.a.	n.a.	n.a.
			Hake	2018	ESP	6,279.5	2,095.6	66%	2,095.6	98%
			Hake	2018	FRA	4,658.7	818.7	21%	818.7	47%
			Hake	2018	IRL	c	c	c	c	c
			Hake	2018	PRT	873.3	177.0	76%	180.5	99%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	11,812.6	3,091.3	49%	3,094.8	78%
	DA XX/2019 Article 6.1.e	VIII-IX	Horse Mackerel	2018	DEU	548.8	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ENG	1.8	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ESP	4,056.9	1,611.1	4%	1,611.1	10%
			Horse Mackerel	2018	FRA	1,025.8	364.1	8%	364.1	26%
			Horse Mackerel	2018	IRL	1,073.5	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	NLD	c	c	c	c	c
			Horse Mackerel	2018	PRT	9,264.7	n.a.	n.a.	6,006.0	55%
							Total exemption	15,977.7	1,975.2	2%
	DA XX/2019 Article 6.1.i	VIII-IX	Megrim	2018	BEL	c	c	c	c	c
			Megrim	2018	ESP	1,368.8	144.0	n.c.	144.0	n.c.
			Megrim	2018	FRA	1,387.5	n.a.	n.a.	n.a.	n.a.
			Megrim	2018	PRT	83.3	n.a.	n.a.	2.8	n.c.
							Total exemption	2,854.5	147.0	n.c.
	DA XX/2019 Article 6.1.g	VIII-IX	Mackerel	2018	DEU	420.7	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ENG	1,195.1	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ESP	8,887.4	1,519.1	5%	1,519.1	97%
			Mackerel	2018	FRA	2,870.5	56.7	6%	56.7	23%
			Mackerel	2018	NLD	c	c	c	c	c
			Mackerel	2018	PRT	4,734.1	n.a.	n.a.	2,941.9	84%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	18,863.7	1,575.8	4%	4,517.7	70%
	DA XX/2019 Article 6.1.m	VIII-IX	Anglerfish	2018	BEL	155.9	17.4	100%	17.4	100%
			Anglerfish	2018	ESP	1,548.7	5.9	3%	5.9	3%
			Anglerfish	2018	FRA	4,202.0	n.a.	n.a.	n.a.	n.a.
			Anglerfish	2018	PRT	93.6	n.a.	n.a.	0.2	1%
							Total exemption	6,000.2	23.3	3%
	DA XX/2019 Article 6.1.k	VIII-IX	Plaice	2018	BEL	c	c	c	c	c
			Plaice	2018	ESP	1.2	n.a.	n.a.	n.a.	n.a.
			Plaice	2018	FRA	46.6	0.5	80%	0.5	90%
			Plaice	2018	PRT	1.0	n.a.	n.a.	n.a.	n.a.
							Total exemption	49.1	0.5	76%
	DA XX/2019 Article 6.1.q	VIII-IX	Pollack	2018	BEL	c	c	c	c	c
			Pollack	2018	ESP	3.6	2.8	17%	2.8	17%
			Pollack	2018	FRA	104.9	6.5	54%	6.5	54%
			Pollack	2018	PRT	1.4	n.a.	n.a.	n.a.	n.a.
							Total exemption	109.9	9.3	52%
	DA XX/2019 Article 6.1.b	VIIIa-VIIIb	Sole	2018	BEL	c	c	c	c	c
			Sole	2018	ESP	7.7	n.a.	n.a.	n.a.	n.a.
			Sole	2018	FRA	741.2	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	1,043.8	42.5	28%	42.5	28%
	DA XX/2019 Article 6.1.o	VIII	Whiting	2018	BEL	c	c	c	c	c
			Whiting	2018	ESP	19.3	n.a.	n.a.	n.a.	n.a.
			Whiting	2018	FRA	762.0	83.0	29%	83.0	46%
					Total exemption		783.1	84.3	29%	84.3
Survivability	DA XX/2019 Article 3	VIII-IX	Norway lobster	2018	ESP	77.8	3.1	70%	3.1	70%
			Norway lobster	2018	FRA	2,170.9	n.a.	n.a.	n.a.	n.a.
			Norway lobster	2018	PRT	253.0	n.a.	n.a.	n.a.	n.a.
					Total exemption		2,501.7	3.1	2%	3.1
	DA XX/2019 Article 4.5	VIII-IXa-X	Red seabream	2018	ENG	0.0	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	ESP	92.1	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	FRA	2.4	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	PRT	477.1	4.4	9%	4.9	13%
					Total exemption		571.6	4.4	7%	4.9
	DA XX/2019 Article 4.4	VIII-IX	Cukoo ray	2018	ESP	3.9	0.0	24%	0.0	26%
			Cukoo ray	2018	FRA	25.0	n.a.	n.a.	n.a.	n.a.
			Cukoo ray	2018	PRT	5.9	n.a.	n.a.	n.a.	n.a.
					Total VIII-IX		34.8	0.0	3%	0.0
		VIII	Cukoo ray	2018	BEL	c	c	c	c	c

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Cukoo ray	2018	ESP	218.0	4.9	6%	4.9	6%
			Cukoo ray	2018	FRA	801.6	253.5	68%	253.5	71%
			Cukoo ray	2018	PRT	c	c	c	c	c
					Total VIII	1,020.2	258.5	55%	258.5	57%
	DA XX/2019 Article 4.1	VIII-IX	Skates & rays	2018	BEL	1.3	n.a.	n.a.	n.a.	n.a.
			Skates & rays	2018	ENG	0.0	n.a.	n.a.	n.a.	n.a.
			Skates & rays	2018	ESP	1,171.3	70.0	25%	93.0	27%
			Skates & rays	2018	FRA	1,516.9	399.7	46%	399.7	49%
			Skates & rays	2018	PRT	1,115.2	n.a.	n.a.	45.1	15%
					Total exemption	3,804.7	469.8	26%	537.8	32%

3.5.2.5 Mediterranean Sea

Table 3.5.2.5.1 - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

		2020 - Part 1										
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Percent/MCRS	
Deminimis	161/2018 Article 3(1) Annex I (1)	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Anchovy	ANE	5
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Sardine	PIL	
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Mackerel	MAC	
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3(1) Annex I (2)		yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3(1) Annex III (1)	Adriatic Sea (GSA17-GSA18)	yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Anchovy	ANE	5
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Sardine	PIL	
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Mackerel	MAC	
			yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3(1) Annex III (2)	Adriatic Sea (GSA17)	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
Article 161/2018 (1) Annex II (1)	South Eastern Mediterranean Sea GSA15 GSA16 GSA19 GSA20 GSA22 GSA23, GSA25	yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Anchovy	ANE	5	
		yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Sardine	PIL		
		yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Mackerel	MAC		
		yes	pelagic midwater trawls	OTM-PTM	OTM-PTM	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ		

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 2												
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS	
Deminimis	161/2018 Article 3(1) Annex II (2)	South Eastern Mediterranean Sea GSA 25	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	5
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3(2) Annex IV	Malta Island and South of Sicily (GSA15-GSA16)	yes	pelagic midwater trawls	PS	PS	All	All		Anchovy	ANE	5
			yes	pelagic midwater trawls	PS	PS	All	All		Sardine	PIL	
			yes	pelagic midwater trawls	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic midwater trawls	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3(2) Annex V	Southern Aegean Sea and Crete Island (GSA22-GSA23)	yes	pelagic midwater trawls	PS	PS	All	All		Anchovy	ANE	5
			yes	pelagic midwater trawls	PS	PS	All	All		Sardine	PIL	
			yes	pelagic midwater trawls	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic midwater trawls	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	161/2018 Article 3 (2) Annex VI	Southern Adriatic Sea and Ionian Sea (GSA18-GSA19-GSA20)	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	3
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	86/2017, Article 4 (a) i, 153/2018 (1) 3	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	yes	Bottom trawls	DTS	OTB-OTT-PTB	All	All		Hake	HKE	6
			yes	Bottom trawls	DTS	OTB-OTT-PTB	All	All		Red mullet	MUT-MUX-MUM	
86/2017, Article 4 (a) ii, 153/2018 (1) 3	Adriatic Sea (GSA17-GSA18)	yes	Gill nets and and trammel nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Hake	HKE	1	
		yes	Gill nets and and trammel nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Red mullet	MUT-MUX-MUM		
86/2017, Article 4 (b) i	Adriatic Sea (GSA17-GSA18)	yes	Trawl nets	DTS	OTB-OTT-PTB-OTM	All	All		Hake	HKE	6	
		yes	Trawl nets	DTS	OTB-OTT-PTB-OTM	All	All		Red mullet	MUT-MUX-MUM		
86/2017, Article 4 (b) ii	Adriatic Sea (GSA17-GSA18)	yes	Gill nets and and trammel nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Hake	HKE	1	
		yes	Gill nets and and trammel nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Red mullet	MUT-MUX-MUM		

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 3													
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS	
Deminimis	xxx/2019, Article 4 (1,a,iii) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	yes	Bottom trawls	DTS	OTB-OTT-PTB	All	All		European seabass	BSS	5	
										Annular seabream	ANN		
										Sharpsnout seabream	SHR		
										White seabream	SWA		
										Common two-banded seabream	CTB		
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN		
										Striped seabream	SSB		
										Spanish seabream	SBA		
										Red seabream	SBR		
										Common pandora	PAC		
										Common seabream	RPG		
										Wreckfish	WRF		
										Sole	SOL		
										Gilthead seabream	SBG		
										Deep-water rose shrimp	DPS		
										European seabass	BSS		3
										Annular seabream	ANN		
										Sharpsnout seabream	SHR		
										White seabream	SWA		
Common two-banded seabream	CTB												
Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN												
Striped seabream	SSB												
Spanish seabream	SBA												
Red seabream	SBR												
Common pandora	PAC												
Common seabream	RPG												
Wreckfish	WRF												
Sole	SOL												
Gilthead seabream	SBG												

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 4												
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS	
Deminimis	xxx/2019, Article 4 (1,a,v) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	yes	Hooks, lines		LHM-LHP-LLD-LLS	All	All		European seabass	BSS	1
										Annular seabream	ANN	
										Sharpsnout seabream	SHR	
										White seabream	SWA	
										Common two-banded seabream	CTB	
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN	
										Striped seabream	SSB	
										Spanish seabream	SBA	
										Red seabream	SBR	
										Common pandora	PAC	
										Common seabream	RPG	
										Wreckfish	WRF	
	Sole	SOL										
	Gilthead seabream	SBG										
	xxx/2019, Article 4 (1,a,vi) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	yes	Bottom trawls	DTS	OTB-OTT-PTB	All	All		Anchovy	ANE	5
										Sardine	PIL	
										Mackerel	MAC	
	Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ										
	xxx/2019, Article 4 (1,b,v) of 86/2017	Adriatic Sea (GSA17-GSA18)	yes	Bottom trawls		OTB-OTT-PTB	All	All		European seabass	BSS	5
										Annular seabream	ANN	
										Sharpsnout seabream	SHR	
										White seabream	SWA	
										Common two-banded seabream	CTB	
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN	
										Striped seabream	SSB	
										Spanish seabream	SBA	
										Red seabream	SBR	
										Common pandora	PAC	
										Common seabream	RPG	
										Wreckfish	WRF	
	Gilthead seabream	SBG										
	Deep-water rose shrimp	DPS										

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 5													
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS		
Deminimis	xxx/2019, Article 4 (1,b,vi) of 86/2017	Adriatic Sea (GSA17-GSA18)	yes	Gill nets and and trammel nets	DFN	GND-GNS-GNC-GTR-GTN	All	All		European seabass	BSS	3	
										Annular seabream	ANN		
										Sharpsnout seabream	SHR		
										White seabream	SWA		
										Common two-banded seabream	CTB		
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN		
										Striped seabream	SSB		
										Spanish seabream	SBA		
										Red seabream	SBR		
										Common pandora	PAC		
										Common seabream	RPG		
										Wreckfish	WRF		
										Sole	SOL		
	Gilthead seabream	SBG											
	xxx/2019, Article 4 (1,b,vii) of 86/2017	Adriatic Sea (GSA17-GSA18)	yes	Hooks, lines		LHM-LHP-LLD-LLS	All	All		European seabass	BSS	1	
										Annular seabream	ANN		
										Sharpsnout seabream	SHR		
										White seabream	SWA		
										Common two-banded seabream	CTB		
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN		
										Striped seabream	SSB		
										Spanish seabream	SBA		
										Red seabream	SBR		
										Common pandora	PAC		
										Common seabream	RPG		
										Wreckfish	WRF		
										Sole	SOL		
	Gilthead seabream	SBG											
	xxx/2019, Article 4 (1,a,vi) of 86/2017	Adriatic Sea (GSA17-GSA18)	yes	Bottom trawls		DTS		All	All		Anchovy	ANE	5
											Sardine	PIL	
											Mackerel	MAC	
											Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 6												
Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS	
Deminimis	xxx/2019, Article 4 (1,c,iv) of 86/2017	yes	Bottom trawls			All	All		European seabass	BSS	5	
									Annular seabream	ANN		
									Sharpsnout seabream	SHR		
									White seabream	SWA		
									Common two-banded seabream	CTB		
									Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN		
									Striped seabream	SSB		
									Spanish seabream	SBA		
									Red seabream	SBR		
									Common pandora	PAC		
	Common seabream	RPG										
	Wreckfish	WRF										
	Gilthead seabream	SBG										
	Deep-water rose shrimp	DPS										
	xxx/2019, Article 4 (1,c,v) of 86/2017	yes	Gill nets and trammel nets		DFN	GND-GNS-GNC-GTR-GTN	All	All		European seabass	BSS	3
										Annular seabream	ANN	
										Sharpsnout seabream	SHR	
										White seabream	SWA	
										Common two-banded seabream	CTB	
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN	
Striped seabream										SSB		
Spanish seabream										SBA		
Red seabream										SBR		
Common pandora										PAC		
Common seabream	RPG											
Wreckfish	WRF											
Sole	SOL											
Gilthead seabream	SBG											

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

		2020 - Part 7										
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Deminimis	xxx/2019, Article 4 (1,c,vi) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	yes	Hooks, lines		LHM-LHP-LLD-LLS	All	All		European seabass	BSS	1
										Annular seabream	ANN	
										Sharpsnout seabream	SHR	
										White seabream	SWA	
										Common two-banded seabream	CTB	
										Grouperd	GPD-GPW-EIU-EPA-ELD-EEN-EEC-EER-EIF-EFX-EPZ-EPT-GPN	
										Striped seabream	SSB	
										Spanish seabream	SBA	
										Red seabream	SBR	
										Common pandora	PAC	
										Common seabream	RPG	
	Wreckfish	WRF										
	Sole	SOL										
	Gilthead seabream	SBG										
xxx/2019, Article 4 (1,c,vii) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	yes	Bottom trawls		DTS	OTB-OTT-PTB	All	All		Anchovy	ANE	5
										Sardine	PIL	
										Mackerel	MAC	
86/2017, Article 4 (b) ii	Adriatic Sea (GSA17-GSA18)	yes	Gill nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Hake	HKE	1	
									Red mullet	MUT-MUX-MUM		
86/2017, Article 4 (b) iii	Adriatic Sea (GSA17-GSA18)	yes	Beam trawl	TBB	TBB	All	All		Hake	HKE	1	
									Red mullet	MUT-MUX-MUM		
86/2017, Article 4 (b) iv	Adriatic Sea (GSA17-GSA18)	yes	Trawl nets	DTS	OTB-OTT-PTB-OTM	All	All		Sole	SOL	2	
86/2017, Article 4 (b) v									yes	Gill nets	DFN	ND-GNS-GNC-GTR-GT
86/2017, Article 4 (c) i	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	yes	Trawl nets	DTS	OTB-OTT-PTB-OTM	All	All		Hake	HKE	6	
									yes	Gill nets		DFN
86/2017, Article 4 (c) ii	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	yes	Gill nets	DFN	ND-GNS-GNC-GTR-GT	All	All		Hake	HKE	1	
									yes	Gill nets		DFN
86/2017, Article 4 (c) iii	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	yes	Trawl nets	DTS	OTB-OTT-PTB-OTM	All	All		Deep water rose shrimp	DPS	6	
Article 86/2017 (4) c									yes	Trawl nets	DTS	OTB-OTT-PTB-OTM

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

2020 - Part 8												
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Deminimis	Article 161/2018 (1) Annex IV	Malta Island and Sicily (GSA15-GSA16)	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	3
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	Article 161/2018 (1) Annex V	Argean Sea and Crete Island (GSA22-GSA23)	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	3
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	
	Article 161/2018 (1) Annex VI	Southern Adriatic and Ionian Sea (GSA18-GSA19-GSA20)	yes	pelagic purse seines	PS	PS	All	All		Anchovy	ANE	3
			yes	pelagic purse seines	PS	PS	All	All		Sardine	PIL	
			yes	pelagic purse seines	PS	PS	All	All		Mackerel	MAC	
			yes	pelagic purse seines	PS	PS	All	All		Horse Mackerel	HMM-JAX-HOM-HMC-HMZ-HMG-TUZ	

Table 3.5.2.5.1 (Continued) - The anticipated exemptions for discard plans for 2020 in the Mediterranean Sea and the related FDI codes.

		2020 - Part 9										
	Exemption Article	Area	Possible or not	Fishing Techniques	Gear code	FDI gear code	Mesh size	Vessel length	SPECON	Species	Species codes	Procent/MCRS
Survivability	153/2018, Article 3 (1. a) of 86/2017	GSA17-GSA18	no	Beam trawl	TBB	TBB	All	All		Sole	SOL	-
	153/2018, Article 3 (1. b) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	no	Mechanised dredges	HMD	HMD	All	All		Scallop	SJA	-
	153/2018, Article 3 (1. c) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	no	Mechanised dredges	HMD	HMD	All	All		Carpet clam	VEN	-
	153/2018, Article 3 (1. d) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	no	Mechanised dredges	HMD	HMD	All	All		Venus shells	CLV	-
	xxx/2019, Article 3.1	Italian territorial waters in GSA9-GSA10-GSA17-GSA18	no	Hydraulic dredges		DRB	All	All		Venus shells	CLV	-
	153/2018, Article 3 (1. e) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	no	bottom trawls	OTB, OTT, PTB, TBN, TBS, TB, OT, PT, TX	OTB-OTT-PTB	All	All		Norway Lobster	NEP	-
	xxx/2019, Article 3 (1. g) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	no	hooks, lines	LHP, LHM, LLS, LLD, LL, LTL, LX	LHM-LHP-LLD-LLS	All	All		Red Sea bream	SBR	-
	xxx/2019, Article 3 (1. h) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12) Adriatic Sea (GSA17-GSA18) South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	no	nets, pots and traps	GNS, GN, GND, GNC, GTN, GTR, GEN, FPO, FIX	All	All	All		Lobster	LBE	-
xxx/2019, Article 3 (1. h) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12) Adriatic Sea (GSA17-GSA18) South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	no	nets, pots and traps	GNS, GN, GND, GNC, GTN, GTR, GEN, FPO, FIX	All	All	All		Crawfish	VLO	-	

Table 3.5.2.5.2 - Landings and discards reported by MS to FDI data call and estimated for the fleets under exemptions proposed for 2020 in the Mediterranean Sea region, based on 2018 data.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
Deminimis	161/2018 Article 3 (2) Annex VI	Southern Adriatic and Ionian Sea (GSA18-GSA19-GSA20)	Anchovy	2018	ITA	4,203.6	0.0	56%	0.0	56%
			Anchovy	2018	GRC	482.1	7.0	100%	7.0	100%
			Horse Mackerel	2018	ITA	123.4	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	GRC	119.8	319.4	100%	319.4	100%
			Mackerel	2018	ITA	47.1	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	GRC	0.1	0.0	100%	0.0	100%
			Sardine	2018	ITA	1,011.7	0.0	27%	0.0	27%
			Sardine	2018	GRC	1,266.6	51.8	100%	51.8	100%
						Total exemption		7,254.4	378.2	62%
Deminimis	161/2018 Article 3(1) Annex I (1)	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Anchovy	2018	FRA	1,157.4	8.0	97%	8.0	97%
			Anchovy	2018	ITA	365.0	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	FRA	4.2	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ITA	0.2	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	FRA	7.2	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	0.1	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	FRA	252.9	0.9	100%	0.9	100%
			Sardine	2018	ITA	6.1	n.a.	n.a.	n.a.	n.a.
						Total exemption		1,793.0	8.9	77%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
Deminimis	161/2018 Article 3(1) Annex I (2)	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Anchovy	2018	ESP	24,030.3	n.a.	n.a.	n.a.	n.a.
			Anchovy	2018	FRA	4.0	n.a.	n.a.	n.a.	n.a.
			Anchovy	2018	ITA	9,118.0	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ESP	1,342.1	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	FRA	36.6	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ITA	128.4	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	FRA	34.4	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	25.5	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ESP	11,733.7	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	FRA	866.4	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ITA	2,214.9	n.a.	n.a.	n.a.	n.a.
						Total exemption		49,534.3	n.a.	n.a.
Deminimis	161/2018 Article 3(1) Annex III (1)	Adriatic Sea (GSA17-GSA18)	Anchovy	2018	ITA	16,365.0	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ITA	131.3	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	108.1	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ITA	21,369.4	2827.0	37%	2827.0	37%
						Total exemption		37,973.8	2827.0	21%
Deminimis	161/2018 Article 3(1) Annex III (2)	Adriatic Sea (GSA17)	Anchovy	2018	HRV	13,249.5	13.6	100%	13.6	100%
			Anchovy	2018	ITA	1,813.0	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	HRV	1,395.9	1.8	100%	1.8	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings			
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings		
			Horse Mackerel	2018	ITA	21.4	n.a.	n.a.	n.a.	n.a.		
			Mackerel	2018	HRV	34.4	0.0	100%	0.0	100%		
			Mackerel	2018	ITA	12.4	n.a.	n.a.	n.a.	n.a.		
			Sardine	2018	HRV	46,257.3	16.8	100%	16.8	100%		
			Sardine	2018	ITA	198.4	n.a.	n.a.	n.a.	n.a.		
					Total exemption			62,982.2	32.2	97%	32.2	97%
Deminimis	161/2018 Article 3(2) Annex IV	Malta Island and South of Sicily (GSA15-GSA16)	Anchovy	2018	ITA	1,364.2	4.1	40%	5.6	55%		
			Horse Mackerel	2018	ITA	46.7	n.a.	n.a.	n.a.	n.a.		
			Horse Mackerel	2018	MLT	21.0	n.a.	n.a.	n.a.	n.a.		
			Mackerel	2018	ITA	85.8	n.a.	n.a.	n.a.	n.a.		
			Mackerel	2018	MLT	157.0	n.a.	n.a.	n.a.	n.a.		
			Sardine	2018	ITA	239.1	n.a.	n.a.	n.a.	n.a.		
		Total exemption			1,913.7	4.1	29%	5.6	39%			
Deminimis	86/2017, Article 4 (a) i, 153/2018 (1) 3	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Hake	2018	ESP	2936.8	214.6	96%	214.6	96%		
			Hake	2018	FRA	710.3	31.9	94%	31.9	97%		
			Hake	2018	ITA	681.3	114.5	60%	114.7	64%		
					Total hake			4328.4	361.0	90%	361.2	90%
			Red mullet	2018	ESP	1380.5	46.7	99%	46.7	99%		
			Red mullet	2018	FRA	302.4	9.8	90%	9.8	100%		
			Red mullet	2018	ITA	1571.2	127.1	72%	127.7	72%		

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total red mullet	3254.0	183.6	85%	184.1	85%
Deminimis	86/2017, Article 4 (a) ii, , 153/2018 (1) 3	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Hake	2018	ESP	62.2	n.a.	n.a.	n.a.	n.a.
			Hake	2018	FRA	97.1	n.a.	n.a.	0.0	1%
			Hake	2018	ITA	565.3	n.a.	n.a.	n.a.	n.a.
						Total exemption	724.6	0.0	3%	77.3
Deminimis	86/2017, Article 4 (a) ii, , 153/2018 (1) 4	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Red mullet	2018	ESP	101.9	n.a.	n.a.	n.a.	n.a.
			Red mullet	2018	FRA	21.3	n.a.	n.a.	0.0	0%
			Red mullet	2018	ITA	167.3	65.3	12%	77.2	14%
						Total exemption	290.5	65.3	7%	77.3
Deminimis	86/2017, Article 4 (b) i	Adriatic Sea (GSA17-GSA18)	Hake	2018	HRV	814.7	3.5	100%	3.5	100%
			Hake	2018	ITA	3508.4	401.9	99%	401.9	99%
			Hake	2018	SVN	1.8	0.0	100%	0.0	100%
			Red mullet	2018	HRV	825.3	3.2	100%	3.2	100%
			Red mullet	2018	ITA	3385.5	2221.3	100%	2221.3	100%
			Red mullet	2018	SVN	6.0	0.2	100%	0.2	100%
						Total exemption	8,541.8	2630.1	100%	2630.1
Deminimis	86/2017, Article 4 (b) ii	Adriatic Sea (GSA17-GSA18)	Hake	2018	HRV	56.9	2.5	100%	2.5	100%
			Hake	2018	ITA	19.3	n.a.	n.a.	0.0	19%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Hake	2018	SVN	0.4	0.0	99%	0.0	99%
			Red mullet	2018	HRV	6.6	0.1	100%	0.1	100%
			Red mullet	2018	ITA	98.4	n.a.	n.a.	n.a.	n.a.
			Red mullet	2018	SVN	0.0	n.a.	n.a.	n.a.	n.a.
						Total exemption		181.8	2.6	35%
Deminimis	86/2017, Article 4 (b) iii	Adriatic Sea (GSA17-GSA18)	Hake	2018	ITA	70.9	n.a.	n.a.	n.a.	n.a.
			Red mullet	2018	ITA	40.3	2.1	62%	2.1	62%
						Total exemption	111.3	2.1	23%	2.1
Deminimis	86/2017, Article 4 (b) iv	Adriatic Sea (GSA17-GSA18)	Sole	2018	HRV	11.7	0.0	100%	0.0	100%
			Sole	2018	ITA	406.5	n.a.	n.a.	1.2	97%
			Sole	2018	SVN	0.2	0.0	100%	0.0	100%
						Total exemption	418.3	0.0	3%	1.2
Deminimis	86/2017, Article 4 (b) v	Adriatic Sea (GSA17-GSA18)	Sole	2018	HRV	145.1	0.5	100%	0.5	100%
			Sole	2018	ITA	307.8	11.1	69%	12.2	88%
			Sole	2018	SVN	9.8	0.2	100%	0.2	100%
						Total exemption	462.7	11.8	79%	12.8
Deminimis	86/2017, Article 4 (c) i	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-	Hake	2018	CYP	7.6	0.0	13%	0.2	36%
			Hake	2018	ITA	1049.5	30.3	55%	56.7	70%
			Hake	2018	MLT	6.1	0.6	67%	0.6	69%
			Hake	2018	GRC	1419.5	116.1	100%	116.1	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Red mullet	2018	CYP	12.6	0.0	71%	0.0	71%
			Red mullet	2018	ITA	880.7	5.5	60%	8.0	81%
			Red mullet	2018	MLT	10.7	0.4	78%	0.4	78%
			Red mullet	2018	GRC	724.9	6.4	100%	6.4	100%
						Total exemption		4111.6	159.2	80%
Deminimis	86/2017, Article 4 (c) ii	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Hake	2018	CYP	1.1	0.0	100%	0.0	100%
			Hake	2018	ITA	242.9	n.a.	n.a.	n.a.	n.a.
			Hake	2018	MLT	0.1	n.a.	n.a.	n.a.	n.a.
			Hake	2018	GRC	1756.2	64.3	100%	64.3	100%
			Red mullet	2018	CYP	3.0	0.0	100%	0.0	100%
			Red mullet	2018	ITA	323.7	n.a.	n.a.	n.a.	n.a.
			Red mullet	2018	MLT	1.0	n.a.	n.a.	n.a.	n.a.
			Red mullet	2018	GRC	1271.3	9.6	100%	9.6	100%
			Total exemption		3599.3	73.9	84%	73.9	84%	
Deminimis	Article 161/2018 (1) Annex II (1)	South Eastern Mediterranean Sea GSA15 GSA16 GSA19 GSA20 GSA22 GSA23, GSA25	Anchovy	2018	ITA	1,701.9	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ITA	4.1	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	2.6	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ITA	5,10.5	n.a.	n.a.	n.a.	n.a.
						Total exemption		2,219.1	n.a.	n.a.
Deminimis	Article 86/2017 (4)	South-eastern	Hake	2018	CYP	7.6	0.0	13%	0.2	36%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
	c	Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Hake	2018	ITA	1,049.5	30.3	55%	56.7	70%
			Hake	2018	MLT	6.1	0.6	67%	0.6	69%
			Hake	2018	GRC	1,419.5	116.1	100%	116.1	100%
					Total exemption	2,482.7	146.9	81%	173.5	87%
Deminimis	xxx/2019, Article 4 (1,a,iv) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Sole	2018	ESP	109.2	n.a.	n.a.	n.a.	n.a.
			Sole	2018	FRA	5.2	n.a.	n.a.	n.a.	n.a.
			Sole	2018	ITA	64.4	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	ESP	0.3	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	FRA	2.7	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	ITA	25.3	n.a.	n.a.	n.a.	n.a.
			Annular seabream	2018	FRA	0.1	n.a.	n.a.	n.a.	n.a.
			Annular seabream	2018	ITA	95.3	804.7	14%	804.7	14%
			European seabass	2018	ESP	27.9	n.a.	n.a.	n.a.	n.a.
			European seabass	2018	FRA	197.0	n.a.	n.a.	n.a.	n.a.
			European seabass	2018	ITA	41.5	2.2	0%	2.2	0%
			Common two-banded seabream	2018	FRA	1.0	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	ITA	16.6	n.a.	n.a.	n.a.	n.a.
Grouperd	2018	FRA	0.7	n.a.	n.a.	n.a.	n.a.			

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Grouperd	2018	ITA	4.3	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	ESP	165.4	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	FRA	54.0	0.2	2%	0.2	2%
			Common pandora	2018	ITA	146.0	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	ESP	31.7	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	FRA	14.9	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	ITA	25.5	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	ESP	50.7	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	FRA	18.5	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	ITA	55.8	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	ESP	284.5	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	FRA	804.7	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	ITA	222.3	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	FRA	0.0	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	ITA	10.1	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Striped seabream	2018	ESP	73.5	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	FRA	22.1	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	ITA	176.1	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	FRA	197.0	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	ITA	20.3	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	ESP	0.5	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	FRA	0.8	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	0.1	n.a.	n.a.	n.a.	n.a.
						Total exemption		2,965.7	807.2	1%
Deminimis	xxx/2019, Article 4 (1,a,vi) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Anchovy	2018	ESP	89.3	508.1	99%	508.1	99%
			Anchovy	2018	FRA	19.3	n.a.	n.a.	n.a.	n.a.
			Anchovy	2018	ITA	666.0	460.3	55%	460.3	55%
			Horse Mackerel	2018	ESP	1,631.9	856.3	98%	856.3	99%
			Horse Mackerel	2018	FRA	378.1	n.a.	n.a.	n.a.	n.a.
			Horse Mackerel	2018	ITA	372.7	7,077.2	44%	7,077.2	44%
			Mackerel	2018	FRA	689.5	n.a.	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	3.9	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ESP	64.6	576.3	100%	576.3	100%
			Sardine	2018	FRA	7.7	n.a.	n.a.	n.a.	n.a.
			Sardine	2018	ITA	81.3	42.9	51%	44.7	51%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		Adriatic Sea (GSA17-GSA18)			Total W Med Sea	4,004.5	9,521.1	58%	9,523.0	58%
			Anchovy	2018	HRV	0.9	0.0	100%	0.0	100%
			Anchovy	2018	ITA	54.8	262.6	86%	262.6	86%
			Anchovy	2018	SVN	0.0	0.0	100%	0.0	100%
			Horse Mackerel	2018	HRV	52.4	2.5	100%	2.5	100%
			Horse Mackerel	2018	ITA	1,100.8	1,152.5	99%	1,152.5	100%
			Horse Mackerel	2018	SVN	0.3	0.1	100%	0.1	100%
			Mackerel	2018	HRV	6.4	0.0	100%	0.0	100%
			Mackerel	2018	ITA	644.6	n.a.	n.a.	1.5	75%
			Mackerel	2018	SVN	0.2	0.0	100%	0.0	100%
			Sardine	2018	HRV	0.5	0.0	100%	0.0	100%
			Sardine	2018	ITA	118.6	n.a.	n.a.	16.8	31%
			Sardine	2018	SVN	0.9	0.4	100%	0.4	100%
				Total Adriatic Sea	1,980.4	1,418.2	60%	1,436.6	87%	
Deminimis	xxx/2019, Article 4 (1,a,iii) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Sole	2018	ESP	13.7	0.0	100%	0.0	100%
			Sole	2018	FRA	77.1	n.a.	n.a.	n.a.	n.a.
			Sole	2018	ITA	57.4	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	ESP	17.2	10.1	100%	10.1	100%
			Red seabream	2018	FRA	6.9	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Red seabream	2018	ITA	27.0	n.a.	n.a.	n.a.	n.a.
			Annular seabream	2018	FRA	1.2	n.a.	n.a.	n.a.	n.a.
			Annular seabream	2018	ITA	45.6	n.a.	n.a.	n.a.	n.a.
			European seabass	2018	ESP	13.0	0.0	100%	0.0	100%
			European seabass	2018	FRA	20.4	n.a.	n.a.	n.a.	n.a.
			European seabass	2018	ITA	10.8	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	FRA	1.0	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	ITA	6.4	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	FRA	0.1	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	ITA	6.1	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	ESP	805.1	187.0	99%	187.0	99%
			Common pandora	2018	FRA	109.1	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	ITA	206.4	105.6	42%	105.6	42%
			Common seabream	2018	ESP	16.5	9.8	98%	9.8	98%
			Common seabream	2018	FRA	1.3	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	ITA	22.6	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	ESP	308.7	253.5	98%	253.5	98%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Spanish seabream	2018	FRA	155.0	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	ITA	60.4	95.6	32%	95.6	32%
			Gilthead seabream	2018	ESP	354.4	0.0	99%	0.0	99%
			Gilthead seabream	2018	FRA	155.8	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	ITA	44.7	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	FRA	0.1	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	ITA	0.7	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	ESP	9.9	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	FRA	1.4	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	ITA	37.5	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	FRA	13.6	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	ITA	2.9	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	ESP	0.2	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	FRA	0.0	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	0.6	n.a.	n.a.	n.a.	n.a.
			Deep-water rose shrimp	2018	ESP	1367.8	3.2	97%	3.2	97%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Deep-water rose shrimp	2018	FRA	46.0	n.a.	n.a.	n.a.	n.a.
			Deep-water rose shrimp	2018	ITA	1459.2	50.2	57%	50.2	57%
			Total exemption			5484.4	714.9	69%	714.9	69%
Deminimis	xxx/2019, Article 4 (1,c,iv) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Red seabream	2018	CYP	c	c	c	c	c
			Red seabream	2018	ITA	3.2	n.a.	n.a.	n.a.	n.a.
			Red seabream	2018	MLT	0.1	0.1	0%	0.1	0%
			Red seabream	2018	GRC	2.5	10.5	100%	10.5	100%
			Annular seabream	2018	CYP	c	c	c	c	c
			Annular seabream	2018	ITA	6.8	n.a.	n.a.	n.a.	n.a.
			Annular seabream	2018	GRC	0.5	9.0	100%	9.0	100%
			European seabass	2018	ITA	7.8	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	ITA	17.2	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	GRC	0.4	0.0	100%	0.0	100%
			Grouperd	2018	CYP	0.1	0.0	87%	0.0	87%
			Grouperd	2018	ITA	10.0	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	MLT	0.1	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	CYP	8.3	0.2	80%	0.2	80%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Common pandora	2018	ITA	170.5	272.6	25%	394.8	34%
			Common pandora	2018	MLT	1.4	0.1	20%	0.1	20%
			Common pandora	2018	GRC	150.2	12.2	100%	12.2	100%
			Common seabream	2018	CYP	0.4	0.0	2%	0.0	2%
			Common seabream	2018	ITA	25.9	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	MLT	0.0	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	GRC	14.7	0.3	100%	0.3	100%
			Spanish seabream	2018	CYP	8.1	0.1	92%	0.1	92%
			Spanish seabream	2018	ITA	12.7	4.7	60%	4.7	69%
			Spanish seabream	2018	MLT	0.0	0.0	0%	0.0	0%
			Spanish seabream	2018	GRC	10.4	3.5	100%	3.5	100%
			Gilthead seabream	2018	CYP	c	c	c	c	c
			Gilthead seabream	2018	ITA	8.2	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	MLT	0.0	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	GRC	46.9	0.2	100%	0.2	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Sharpsnout seabream	2018	ITA	0.1	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	GRC	0.1	0.0	100%	0.0	100%
			Striped seabream	2018	ITA	3.4	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	ITA	5.1	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	GRC	0.0	0.0	100%	0.0	100%
			Wreckfish	2018	ITA	1.6	n.a.	n.a.	n.a.	n.a.
			Deep-water rose shrimp	2018	CYP	1.1	n.a.	n.a.	n.a.	n.a.
			Deep-water rose shrimp	2018	ITA	5,354.7	99.6	34%	140.2	58%
			Deep-water rose shrimp	2018	MLT	9.9	n.a.	n.a.	0.0	2%
			Deep-water rose shrimp	2018	GRC	1,210.7	142.8	100%	142.8	100%
						Total exemption		7,093.1	556.8	47%
Deminimis	xxx/2019, Article 4 (1,c,vii) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-	Anchovy	2018	ITA	84.5	n.a.	n.a.	n.a.	n.a.
			Anchovy	2018	MLT	0.0	0.0	0%	0.0	#DIV/0!
			Anchovy	2018	GRC	0.1	1.2	100%	1.2	100%
			Horse Mackerel	2018	CYP	1.3	0.0	22%	0.0	22%
			Horse Mackerel	2018	ITA	798.6	2,251.1	60%	2,284.6	72%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings			
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings		
		GSA26-GSA27)	Horse Mackerel	2018	MLT	1.1	3.5	41%	3.5	41%		
			Horse Mackerel	2018	GRC	404.3	864.5	100%	864.5	100%		
			Mackerel	2018	CYP	c	c	c	c	c		
			Mackerel	2018	ITA	81.7	0.0	n.a.	n.a.	n.a.		
			Mackerel	2018	GRC	95.8	0.0	100%	0.0	100%		
			Sardine	2018	CYP	0.3	0.0	61%	0.0	61%		
			Sardine	2018	ITA	135.5	n.a.	n.a.	n.a.	n.a.		
			Sardine	2018	GRC	56.3	26.4	100%	26.4	100%		
						Total exemption		1,659.5	3,146.7	63%	3,180.2	68%
			Deminimis	xxx/2019, Article 4 (1,c,v) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Sole	2018	ITA	27.4	n.a.	n.a.	n.a.
Sole	2018	GRC				374.4	0.9	100%	0.9	100%		
Red seabream	2018	ITA				5.2	n.a.	n.a.	n.a.	n.a.		
Red seabream	2018	GRC				4.0	0.0	100%	0.0	100%		
Annular seabream	2018	CYP				0.9	0.0	100%	0.0	100%		
Annular seabream	2018	ITA				68.8	n.a.	n.a.	n.a.	n.a.		
Annular seabream	2018	MLT				0.3	0.1	14%	0.1	14%		
Annular seabream	2018	GRC				110.2	501.3	100%	501.3	100%		
European seabass	2018	CYP				2.9	0.0	100%	0.0	100%		
European seabass	2018	ITA				12.8	n.a.	n.a.	n.a.	n.a.		
European seabass	2018	MLT				0.0	n.a.	n.a.	n.a.	n.a.		

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Common two-banded seabream	2018	CYP	1.8	0.0	100%	0.0	100%
			Common two-banded seabream	2018	ITA	37.0	n.a.	n.a.	n.a.	n.a.
			Common two-banded seabream	2018	MLT	0.1	0.1	45%	0.1	45%
			Common two-banded seabream	2018	GRC	108.1	11.9	100%	11.9	100%
			Grouperd	2018	CYP	1.8	0.0	100%	0.0	100%
			Grouperd	2018	ITA	4.5	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	MLT	0.1	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	CYP	4.8	0.0	100%	0.0	100%
			Common pandora	2018	ITA	48.5	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	MLT	1.2	0.0	13%	0.0	14%
			Common pandora	2018	GRC	496.6	52.1	100%	52.1	100%
			Common seabream	2018	CYP	1.3	0.0	100%	0.0	100%
			Common seabream	2018	ITA	19.5	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	MLT	2.7	0.3	10%	0.3	10%
			Common seabream	2018	GRC	178.6	6.4	100%	6.4	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Spanish seabream	2018	CYP	12.2	0.0	100%	0.0	100%
			Spanish seabream	2018	ITA	26.9	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	MLT	0.1	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	GRC	122.5	14.0	100%	14.0	100%
			Gilthead seabream	2018	CYP	4.6	0.0	100%	0.0	100%
			Gilthead seabream	2018	ITA	19.2	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	MLT	0.3	n.a.	n.a.	n.a.	n.a.
			Gilthead seabream	2018	GRC	146.2	2.2	100%	2.2	100%
			Sharpsnout seabream	2018	CYP	0.0	0.0	100%	0.0	100%
			Sharpsnout seabream	2018	ITA	0.3	n.a.	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	GRC	1.9	0.0	100%	0.0	100%
			Striped seabream	2018	CYP	1.7	0.0	100%	0.0	100%
			Striped seabream	2018	ITA	21.5	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	MLT	0.1	n.a.	n.a.	n.a.	n.a.
			Striped seabream	2018	GRC	51.2	0.0	100%	0.0	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			White seabream	2018	CYP	3.9	0.0	100%	0.0	100%
			White seabream	2018	ITA	9.4	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	MLT	0.7	n.a.	n.a.	n.a.	n.a.
			White seabream	2018	GRC	207.3	7.0	100%	7.0	100%
			Wreckfish	2018	ITA	0.1	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	MLT	0.5	n.a.	n.a.	n.a.	n.a.
						Total exemption		2,144.1	596.4	86%
Deminimis	xxx/2019, Article 4 (1,c,vi) of 86/2017	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Red seabream	2018	MLT	0.0	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	ITA	0.9	n.a.	n.a.	n.a.	n.a.
			Grouperd	2018	MLT	0.2	n.a.	n.a.	n.a.	n.a.
			Common pandora	2018	MLT	0.0	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	ITA	0.1	n.a.	n.a.	n.a.	n.a.
			Common seabream	2018	MLT	0.3	n.a.	n.a.	n.a.	n.a.
			Spanish seabream	2018	MLT	2.0	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	0.6	n.a.	n.a.	n.a.	n.a.
			Wreckfish	2018	MLT	1.2	n.a.	n.a.	n.a.	n.a.
						Total exemption		5.5	n.a.	n.a.
Deminimis	Article 161/2018 (1) Annex IV	Malta Island and Sicily (GSA15-	Anchovy	2018	ITA	1364.2	4.1	40%	5.6	55%
			Horse Mackerel	2018	ITA	46.7	n.a.	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		GSA16)	Horse Mackerel	2018	MLT	21.0	n.a	n.a.	n.a.	n.a.
			Mackerel	2018	ITA	85.8	n.a	n.a.	n.a.	n.a.
			Mackerel	2018	MLT	157.0	n.a	n.a.	n.a.	n.a.
			Sardine	2018	ITA	239.1	n.a	n.a.	n.a.	n.a.
			Total exemption			1,913.7	4.1	29%	5.6	39%
Deminimis	xxx/2019, Article 4 (1,b,vi) of 86/2017	Adriatic Sea (GSA17-GSA18)	Sole	2018	HRV	145.1	0.5	100%	0.5	100%
			Sole	2018	ITA	307.8	11.1	69%	12.2	88%
			Sole	2018	SVN	9.8	0.2	100%	0.2	100%
			Red seabream	2018	HRV	0.4	0.0	100%	0.0	100%
			Red seabream	2018	ITA	1.3	n.a	n.a.	n.a.	n.a.
			Annular seabream	2018	HRV	1.4	0.0	100%	0.0	100%
			Annular seabream	2018	ITA	18.7	n.a	n.a.	1.5	27%
			Annular seabream	2018	SVN	2.0	0.9	100%	0.9	100%
			European seabass	2018	HRV	6.5	0.0	100%	0.0	100%
			European seabass	2018	ITA	73.3	n.a	n.a.	1.4	68%
			European seabass	2018	SVN	2.8	0.0	99%	0.0	99%
			Common two-banded seabream	2018	HRV	15.8	0.0	100%	0.0	100%
			Common two-banded seabream	2018	ITA	21.9	n.a	n.a.	n.a.	n.a.
Common two-	2018	SVN	0.0	n.a	n.a.	n.a.	n.a.			

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			banded seabream							
			Grouperd	2018	ITA	0.0	n.a	n.a.	n.a.	n.a.
			Common pandora	2018	HRV	9.5	0.2	100%	0.2	100%
			Common pandora	2018	ITA	18.2	n.a	n.a.	1.1	84%
			Common pandora	2018	SVN	3.0	0.2	100%	0.2	100%
			Common seabream	2018	HRV	1.3	0.0	100%	0.0	100%
			Common seabream	2018	ITA	7.1	n.a	n.a.	n.a.	n.a.
			Common seabream	2018	SVN	0.0	n.a	n.a.	n.a.	n.a.
			Spanish seabream	2018	HRV	0.7	0.0	100%	0.0	100%
			Spanish seabream	2018	ITA	0.9	n.a	n.a.	n.a.	n.a.
			Gilthead seabream	2018	HRV	104.8	0.5	100%	0.5	100%
			Gilthead seabream	2018	ITA	193.4	n.a	n.a.	1.3	88%
			Gilthead seabream	2018	SVN	12.7	0.2	100%	0.2	100%
			Sharpsnout seabream	2018	HRV	4.4	0.0	100%	0.0	100%
			Sharpsnout seabream	2018	ITA	1.3	n.a	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Sharpsnout seabream	2018	SVN	0.1	n.a	n.a.	n.a.	n.a.
			Striped seabream	2018	HRV	2.2	0.0	100%	0.0	100%
			Striped seabream	2018	ITA	103.8	n.a	n.a.	3.2	83%
			Striped seabream	2018	SVN	0.3	0.0	100%	0.0	100%
			White seabream	2018	HRV	2.3	0.0	100%	0.0	100%
			White seabream	2018	ITA	32.2	n.a	n.a.	n.a.	n.a.
			White seabream	2018	SVN	0.0	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	0.0	n.a	n.a.	n.a.	n.a.
						Total exemption		1,105.1	13.8	49%
Deminimis	xxx/2019, Article 4 (1,b,v) of 86/2017	Adriatic Sea (GSA17-GSA18)	Red seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Red seabream	2018	ITA	4.2	0.3	96%	0.3	96%
			Annular seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Annular seabream	2018	ITA	3.0	n.a	n.a.	0.5	55%
			Annular seabream	2018	SVN	0.1	0.0	100%	0.0	100%
			European seabass	2018	HRV	0.1	0.0	100%	0.0	100%
			European seabass	2018	ITA	20.7	n.a	n.a.	0.0	70%
			European seabass	2018	SVN	0.8	0.0	100%	0.0	100%
			Common two-banded seabream	2018	HRV	0.1	0.0	100%	0.0	100%
Common two-	2018	ITA	2.7	n.a	n.a.	n.a.	n.a.			

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			banded seabream							
			Grouperd	2018	ITA	0.2	n.a	n.a.	n.a.	n.a.
			Common pandora	2018	HRV	47.1	0.0	100%	0.0	100%
			Common pandora	2018	ITA	44.1	779.1	65%	784.1	100%
			Common pandora	2018	SVN	0.6	0.2	100%	0.2	100%
			Common seabream	2018	HRV	0.3	0.0	100%	0.0	100%
			Common seabream	2018	ITA	6.0	n.a	n.a.	n.a.	n.a.
			Spanish seabream	2018	HRV	2.0	0.0	100%	0.0	100%
			Spanish seabream	2018	ITA	2.8	n.a	n.a.	n.a.	n.a.
			Gilthead seabream	2018	HRV	1.5	0.0	100%	0.0	100%
			Gilthead seabream	2018	ITA	437.1	n.a	n.a.	5.6	18%
			Gilthead seabream	2018	SVN	0.3	0.0	100%	0.0	100%
			Sharpsnout seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Sharpsnout seabream	2018	ITA	0.1	n.a	n.a.	n.a.	n.a.
			Sharpsnout seabream	2018	SVN	0.1	n.a	n.a.	n.a.	n.a.

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			Striped seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Striped seabream	2018	ITA	58.5	n.a	n.a.	n.a.	n.a.
			Striped seabream	2018	SVN	0.0	0.0	0%	0.0	#DIV/0!
			White seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			White seabream	2018	ITA	1.6	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	0.0	n.a	n.a.	n.a.	n.a.
			Deep-water rose shrimp	2018	HRV	912.5	8.3	19%	8.3	100%
			Deep-water rose shrimp	2018	ITA	2,804.3	279.8	97%	279.8	99%
						Total exemption		4,350.9	1,067.8	69%
Deminimis	Article 161/2018 (1) Annex VI	Southern Adriatic and Ionian Sea (GSA18-GSA19-GSA20)	Anchovy	2018	ITA	4,203.6	0.0	56%	0.0	56%
			Anchovy	2018	GRC	482.1	7.0	100%	7.0	100%
			Horse Mackerel	2018	ITA	123.4	n.a	n.a.	n.a.	n.a.
			Horse Mackerel	2018	GRC	119.8	319.4	100%	319.4	100%
			Mackerel	2018	ITA	47.1	n.a	n.a.	n.a.	n.a.
			Mackerel	2018	GRC	0.1	0.0	100%	0.0	100%
			Sardine	2018	ITA	1,011.7	0.0	27%	0.0	27%
			Sardine	2018	GRC	1,266.6	51.8	100%	51.8	100%
			Total exemption		7,254.4	378.2	62%	378.2	62%	
Deminimis	161/2018 Article	Southern Aegean Sea	Anchovy	2018	GRC	7,536.9	0.0	100%	0.0	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
	3(2) Annex V	and Crete Island (GSA22-GSA23)	Horse Mackerel	2018	GRC	321.8	43.2	100%	43.2	100%
			Mackerel	2018	GRC	32.7	0.0	100%	0.0	100%
			Sardine	2018	GRC	7,201.5	3.0	100%	3.0	100%
						Total exemption	15,092.8	46.2	100%	46.2
Deminimis	Article 161/2018 (1) Annex V	Argean Sea and Crete Island (GSA22-GSA23)	Anchovy	2018	GRC	7,536.9	0.0	100%	0.0	100%
			Horse Mackerel	2018	GRC	321.8	43.2	100%	43.2	100%
			Mackerel	2018	GRC	32.7	0.0	100%	0.0	100%
			Sardine	2018	GRC	7,201.5	3.0	100%	3.0	100%
						Total exemption	15,092.8	46.2	100%	46.2
Deminimis	xxx/2019, Article 4 (1,a,v) of 86/2017	Western Mediterranean Sea (GSA1-GSA2-GSA5-GSA6-GSA7-GSA8-GSA9-GSA10-GSA11.1-GSA11.2-GSA12)	Red seabream	2018	ESP	6.5	n.a	n.a.	n.a.	n.a.
			Red seabream	2018	FRA	0.4	n.a	n.a.	n.a.	n.a.
			Red seabream	2018	ITA	0.4	n.a	n.a.	n.a.	n.a.
			European seabass	2018	ESP	0.0	n.a	n.a.	n.a.	n.a.
			European seabass	2018	FRA	3.6	n.a	n.a.	n.a.	n.a.
			Grouperd	2018	FRA	0.0	n.a	n.a.	n.a.	n.a.
			Grouperd	2018	ITA	0.3	n.a	n.a.	n.a.	n.a.
			Common pandora	2018	ESP	0.3	n.a	n.a.	n.a.	n.a.
			Common pandora	2018	FRA	0.0	n.a	n.a.	n.a.	n.a.
			Common pandora	2018	ITA	3.3	n.a	n.a.	n.a.	n.a.
Common	2018	ESP	0.1	n.a	n.a.	n.a.	n.a.			

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
			seabream							
			Common seabream	2018	FRA	0.0	n.a	n.a.	n.a.	n.a.
			Spanish seabream	2018	ESP	0.3	n.a	n.a.	n.a.	n.a.
			Spanish seabream	2018	ITA	0.6	n.a	n.a.	n.a.	n.a.
			Gilthead seabream	2018	FRA	4.0	n.a	n.a.	n.a.	n.a.
			Striped seabream	2018	ESP	0.0	n.a	n.a.	n.a.	n.a.
			White seabream	2018	FRA	0.0	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	ESP	0.1	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	FRA	0.4	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	ITA	1.0	n.a	n.a.	n.a.	n.a.
			Wreckfish	2018	MLT	0.1	n.a	n.a.	n.a.	n.a.
					Total exemption	21.3	n.a.	n.a.	n.a.	
Deminimis	86/2017, Article 4 (c) iii	South-eastern Mediterranean Sea (GSA14-GSA15-GSA16-GSA19-GSA20-GSA21-GSA22-GSA23-GSA24-GSA25-GSA26-GSA27)	Deep water rose shrimp	2018	CYP	1.1	n.a	n.a.	n.a.	n.a.
			Deep water rose shrimp	2018	ITA	5,354.7	99.6	34%	140.2	58%
			Deep water rose shrimp	2018	MLT	9.9	n.a	n.a.	0.0	2%
			Deep water rose shrimp	2018	GRC	1,210.7	142.8	100%	142.8	100%

Type of exemption	Exemption Article	Area	Species	Year	Country	Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
							Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
					Total exemption	6,576.4	242.4	46%	282.9	65%
Deminimis	xxx/2019, Article 4 (1,b,vii) of 86/2017	Adriatic Sea (GSA17-GSA18)	Sole	2018	HRV	0.0	0.0	100%	0.0	100%
			Red seabream	2018	HRV	0.1	0.0	100%	0.0	100%
			Annular seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			European seabass	2018	HRV	0.1	0.0	100%	0.0	100%
			Common two-banded seabream	2018	HRV	0.3	0.0	100%	0.0	100%
			Common pandora	2018	HRV	1.0	0.0	100%	0.0	100%
			Common seabream	2018	HRV	0.7	0.0	100%	0.0	100%
			Spanish seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Gilthead seabream	2018	HRV	1.2	0.0	100%	0.0	100%
			Sharpsnout seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			Striped seabream	2018	HRV	0.0	0.0	100%	0.0	100%
			White seabream	2018	HRV	0.1	0.0	100%	0.0	100%
								Total exemption	3.7	0.0

3.5.3 Estimation of the percentage of fish above and below MCRS

Method

Estimation of the fish above and below the MCRS by species, country, métier, year and quarter was done merging tables A, D and F using the fields *domain_discards* and *domain_landings*.

In Table A, if a métier has been sampled for landings it has a *domain_landings* associated and the length structure of the landings is displayed in table F, respectively, if discards have been sampled, a *domain_discards* is associated and the length structure of the discards displayed in table D.

Length structure of the discards and landings are provided by domains and year, quarter for the Mediterranean and the Black Sea regions and by domain and year for the Atlantic Ocean and other regions.

The domains were created to reflect the sampling programs of the countries and to provide the best scientific information about the length structure of the landings/discards. In most of the case a domain will then aggregate métier and/or areas and/or quarter and/or mesh sizes... The values in column *totwghtlandg* and *discards* of table A are then expected to be lower than *totwghtlandg* and *discards* in table D and *totwghtlandg* in table F as they can encompass several lines in table A.

The main and strong assumption made in these calculations is that the length structure of landings and discards for a métier in table A will be the length structure of the landings of the associated domain in table F and the length structure of the discards of the associated domain in table D.

Landings and discards numbers at length coming respectively from table F and D are then corrected by the ratio of the reported weight of landings and discards in the different tables to compute the numbers by métier.

$$\begin{aligned} \text{Landing Number Table } A_{met, domain, l} \\ = \text{Landing Number Table } F_{domain, l} \frac{\text{totwghtlandg Table } A_{met, domain}}{\text{totwghtlandg Table } F_{domain}} \end{aligned}$$

$$\text{Discard Number Table } A_{met, domain, l} = \text{Discard Number Table } D_{domain, l} \frac{\text{discards Table } D_{met, domain}}{\text{discards Table } A_{domain}}$$

met: metier in table A

domain: either *domain_discards* when computing discards numbers at length or *domain_landings* when computing landings numbers at length.

l: length

As not all métiers in Table A are associated to a domain, the total length structure of the catches cannot be computed and conclusions depend upon the number of domains provided and the number of samples in each domain and their representativeness.

The number caught at length can then be linked with the MCRS reference table and the sum of fishes caught above or under the MCRS computed by métier/species.

However, these numbers at length cannot be directly compared to the percentages of discards allowed when exemptions are granted nor the discard ratio usually looked at as these discard ratio are commonly expressed in weight.

An attempt to compute the percentages in weight was investigated using the average a and b (table 3.5.3.1) parameters from the weight at length relationships extracted from Fishbase for

several species. Using these values is a fix to overcome the absence of weight at length in the tables D and F.

Table 3.5.3.1: a and b parameters coming from fishbase (average over the available information).

species	a_mean	b_mean
HER	0,006273	3,094734
WHG	0,007904	2,994284
HKE	0,005471	3,079333
WHB	0,007294	2,971714
LIN	0,00386	3,074
SAN	0,001887	3,213333
COD	0,009009	3,016714
MAC	0,008713	3,029667
SOL	0,008607	3,025722
NOP	0,006667	3
PLE	0,00892	3,009
POK	0,0104	2,972
HOM	0,011642	2,937
HAD	0,012056	2,937286
RJA	0,003603	3,218667
SME	0,0039	3,203

These parameters were then used to transform length into weight at length and allowed computing the percentages in weight under or above the MCRS for several species and métiers with a domain associated.

As an example, Figure 3.5.3.1 and Figure 3.5.3.2 represent the percentages of fish caught by the Belgian fleets fishing sole in the North Sea with Beam Trawl using a mesh size between 70 and 99 mm between 2015 and 2018 both in number and weight.

Example `subset(percLong, country_code=="BEL" & Area=="NS" & metier=="TBB_DEF_70-99_0_0" & species=="SOL"`.

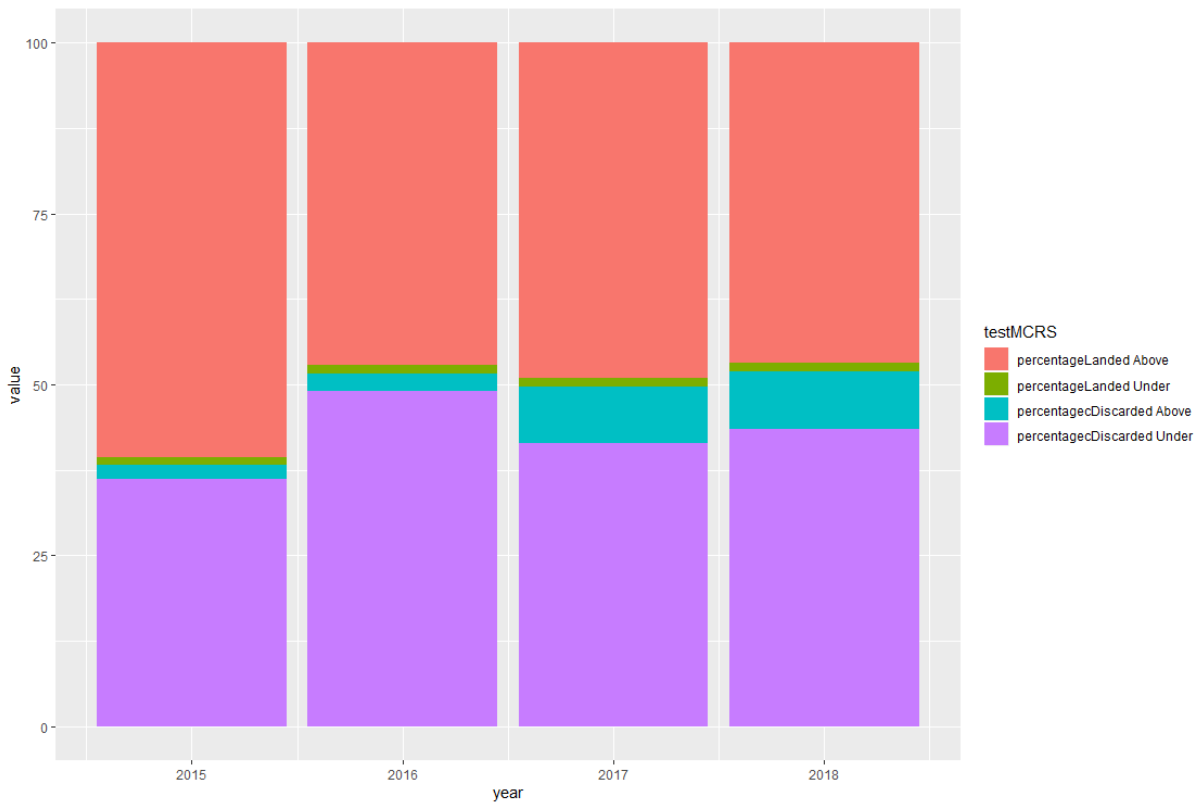


Figure 3.5.3.1: Percentages in number of soles caught Under or Above the MCRS.

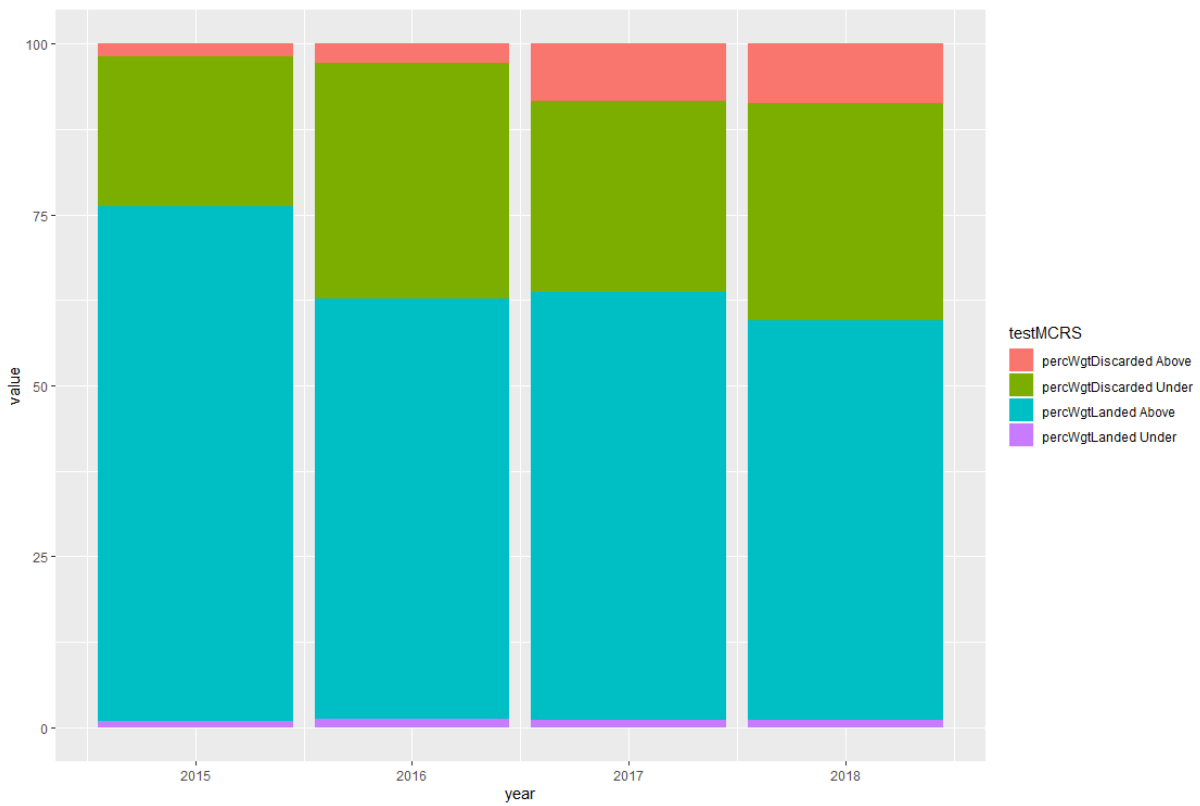


Figure 3.5.3.2: Percentages in weight of soles caught Under or Above the MCRS.

Shortcomings

1. For the first time, this year the length frequency data have been used to calculate the percentage of undersized fish in the landings and discards. Similar to the overall discard rates it needs to be highlighted that this is based on observer data and a limited number of sampled trips. The length frequencies were used as being representative in a much wider context. E.g., when a sampled length frequency was only available for quarter 3, it was assumed that it is representative for the whole year. This can introduce a serious bias as fish grow over the year and recruits are often entering the fishery in the third quarter. Therefore, the results have to be interpreted carefully and always in conjunction with information on the sampling coverage.
2. The data call has only asked for the length frequencies in numbers, but without an associated mean weight at length. The EWG made a first attempt to provide also the information for biomass by using length-weight relationships based on FISHBASE values (see above under methods). This is a very rough approach and in order to be able to calculate the percentage based on biomass based on submitted data, it would be beneficial to add a column with mean weight at length to table F in future datacalls.
3. Data checks (i.e. SOP) revealed that there are several cases with inconsistent information between the length frequencies provided and the associated total weight of landings and discards. It is unclear whether this is due to the rough estimates used for the length-weight relationship or by wrongly scaled numbers at length.
4. Due to the issues identified, the EWG stresses that the percentage of undersized fish provided may not be used to calculate e.g., deductions needed from TACs (based on biomass!) under exemptions for undersized fish or shellfish only. Although the potential of having this type of information could be clearly demonstrated in this first attempt, further investigations and updates to the datacall are needed.

4 CONTACT DETAILS OF EWG-19-11 PARTICIPANTS

¹ - Information on EWG participant's affiliations is displayed for information only. In any case, Members of the STECF, invited experts, and JRC experts shall act independently. In the context of the STECF work, the committee members and other experts do not represent the institutions/bodies they are affiliated to in their daily jobs. STECF members and experts also declare at each meeting of the STECF and of its Expert Working Groups any specific interest, which might be considered prejudicial to their independence in relation to specific items on the agenda. These declarations are displayed on the public meeting's website if experts explicitly authorized the JRC to do so in accordance with EU legislation on the protection of personnel data. For more information: <http://stecf.jrc.ec.europa.eu/adm-declarations>

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5 LIST OF BACKGROUND DOCUMENTS

Scientific, Technical and Economic Committee for Fisheries (STECF) – Fisheries Dependent Information (STECF-16-20); Publications Office of the European Union, Luxembourg; EUR 27758 EN; doi:10.2788/502445

Scientific, Technical and Economic Committee for Fisheries (STECF) – Fisheries Dependent Information (STECF-17-12); Publications Office of the European Union, Luxembourg; EUR 29204 EN; doi:10.2760/094412

Scientific, Technical and Economic Committee for Fisheries (STECF) – Fisheries Dependent Information (STECF-18-11); Publications Office of the European Union, Luxembourg; EUR 28359 EN; doi:10.2760/696153

6 ANNEXES

Annex 1 - DTMT Guidance

1 Introduction

The Data Transmission Monitoring Tool (DTMT) has been designed with the purpose of facilitating exchange of information among the end users of data, MS and Commission. The objective of this approach is to efficiently monitor and communicate data issues and in the long term improve the flow and quality of data. It is very important for DG MARE that issues are properly reported and commented on at all levels in the DTMT, so that a follow-up of data issues can be ensured.

Data issues which relate to MS not having provided the data for whatever reasons or data quality issues should be reported in the DTMT. In this way, MS will become aware of the data issues identified by EWGs or in preparation of EWGs and can therefore work on solutions for the future.

The data transmission issues should be reported in the DTMT in a standardised and homogeneous way to allow, by using a searchable tool, the quick identification of pending issues and to flag common gaps and issues among MS, among different years of the same data call and, when possible, among different data calls.

The identification of data transmission issues should start right after the deadline for the data call, when the first final dataset is available. The reporting of issues into the DTMT should start right after the expert working group has finished working with data. Direct communication with MS is desirable prior to reporting of issues in the DTMT. The issues that are already dealt with during the process of creating the final dataset should not generally be included in the DTMT and only outstanding issues should be reported, with the exception of timeliness issues which may need to be reported.

This Guidance document has been developed in stages under the guidance of DGMARE, JRC and STECF at the STECF Plenary in March 2019. It is intended to be a living document and updated as needed if changes are made to the DTMT or guidance needs to change. It can be found at (<https://datacollection.jrc.ec.europa.eu/guidelines>).

The tool is available at <https://datacollection.jrc.ec.europa.eu/web/dcf/dtmt>

Access credentials are user-specific. All end user groups e.g. STECF (and relevant Expert groups), ICES, GFCM etc., will be provided with log-on credentials by the JRC.

The home page for the JRC and DG MARE is shown in Figure 1. This shows all columns with an example of 5 records.

End users will see a reduced number of columns in accordance with their access rights (see Table 1).

This Guidance document follows the chronological order of the DTMT sections.

2 Guidance for end users on filling in issues in the DTMT

2.1 How to add an issue

The JRC, END USERS and DG MARE can add a new issue using the 'Add issue' button.

Clicking 'Add issue' opens a dialogue box and the end-user simply needs to enter the required information in the appropriate boxes either by entering text or selecting from a drop-down menu (Figure 2).

If the end user fails to insert the relevant information, a warning dialogue box appears.

2.2 How should an issue be selected



Whether an issue should be reported is a *judgement* that must be made by the end-user that identifies a problem which remains unresolved and has had some influence on either the coverage, timeliness or quality of the data submitted.

The data type requested should be identified according to the list for each EWG (see Annex 1, at the end of this guidance document) and entered in the "**Data requested**" field. The entries should be limited to the listed values.

The "**Issue**" field is used to identify which specific part of the data requested is in error, and the nature of the issue. This field should contain enough information to clearly convey which piece of data is the issue. The information should be aggregated to the highest level feasible, without loss of clarity regarding the data being identified. Ideally, data that would be corrected together should be dealt with in a single record. Any issue raised requires a Member State to provide an explanation as to why the issue has arisen.

A clear description of the issues raised is fundamental to the ability of MSs to understand and comment on such issues, so clarity is important.

2.3 Deleting an issue

The JRC, END USERS and DG MARE can delete issues by clicking the  button on the extreme left of the record next to the ID number (Figure 1). Clicking the  opens up a confirmation to delete dialogue box.

2.4 Selecting the severity of impact of the issue been on the work of the EWG

Severity Field: "**Low**", "**Medium**" and "**High**".

"**Low**" implies not important impact on the conduct or output of the EWG.

"**Medium**" has influence on the conduct of the WG or the results, such that time has been wasted, or the results are in error but not in a major way.

"**High**" should be chosen where the results of the EWG have been influenced in an important way, such as errors in the output or delays in the conduct of the meeting or the preparation of the report.

Note: that the issue type "**impact on the WG**", has been removed

2.5 Different issue types

"**Coverage**" essentially relates to variables that were called for but not reported. However, when considering coverage, some expert judgement is required to determine whether a variable that was called for and not transmitted needs to be reported. Some common sense is required here. For example, reporting every missing variable for every stratum requested in a data call is not appropriate. Generally, individual coverage issues that are judged to have low impact on the end-user's work should not be reported. However if the cumulative effect of a series of coverage issues for a particular Member State is judged to be medium-high severity, then the description of the issues should be reported.

"Timeliness" essentially relates to data that were not transmitted in accordance with agreed deadlines (legal or operational). If for whatever reason, the data were transmitted after the deadline and were available to the end-user to undertake the work, this should be specified in the **"End-user comment"** column. If the delay is minor and the data is available for the work, and the delay is not occurring every year the End User may exclude the issue. However, the data are repeated uploaded late but in time for the EWG this should be note as a database entry.

"Quality" is not straightforward to assess but a general rule of thumb is that a quality issue will be one that has had an impact on the work being undertaken by the end-user. Hence quality issues with low severity need not be reported unless there is a cumulative effect. The end users should also look at section 4 of this document and fill in the **"End user comment"** field of the DTMT accordingly.

Note: that the issue type **"unknown"**, has been removed as in practice it has not appeared to be useful.

3 Guidance to Member States on commenting on issues reported in the DTMT

Member States (MS) comments need to address each issue raised directly and provide a suitable explanation or confirmation of correction. Clarification should be provided where the MS has a reason why there is no obligation to provide the data.

Note that MS do not have the ability to add an issue record i.e. there is no **"Add issue"** button available for MS. Double clicking on an issue opens a dialogue box (Figure 3) where the MS can insert its comments. Note that the only editing option the MS has, is to insert/edit text in the **"Member State comment"** box.

4 End user comment and assessment

Two fields are provided, **"end user comment"** and **"end user assessment"**. The first of these should be used by the end user to provide further information on the data issue, if that is needed, following the MS comment. The field **"end user assessment"** has several options: **"Not assessed"**, when the end user has not evaluated MS response

"Satisfactory", where the end user considers that the MS response is satisfactory, covers the issue and no further action is needed

"Unsatisfactory", where the end user considers that the MS response does not resolve the issue and further action would be helpful to resolve the issue

"Follow-up needed" should be used in some situations in which the MS response may be satisfactory as an explanation of the reason for the issue, but there is still a need to follow-up on the issues for so that in the future such issues are less likely.

5 Guidance to STECF on commenting and assessment of data issues reported in the DTMT

Two fields are provided: **"STECF comment"** and **"STECF assessment"**. The field **"STECF comment"** should be used to provide further information on the data issue, if that is needed following the MS comment. The field **"STECF assessment"** has several options:

"Not assessed", which indicates that STECF has not evaluated the MS response.

"Satisfactory", where STECF considers that the MS response is satisfactory, covers the issue and no further action is needed.

"Unsatisfactory", where STECF considers that the MS response does not resolve the issue and where further action would be helpful to resolve the issue.

"Follow-up needed" should be used in some situations in which the MS response may be satisfactory as an explanation of the reason for the issue, but there is still a need to follow-up on the issues for so that in the future such issues are less likely.

As for end-users and MS, it is crucial that the STECF and other end-users' comments to issues raised and the associated MS responses are sufficiently clear and informative to allow DG MARE to judge whether the issue can be considered a failure or warrants further clarification from the MS before such a judgement is made.

In assessing issues and Member State responses, the current guidance (STECF EWG 18-10) is as listed in Table 2.

6 Guidance to DG MARE on commenting and assessment of data issues reported in the DTMT

DG MARE has access to the entire application, but has edit access to the columns "DG MARE comments/action" and "DG MARE decision" (drop-down menu) only.

Double clicking a record opens up a dialogue box where the comments/action can be inserted and decision can be selected from the drop-down menu. Note that a new option "issue closed" is needed.

Figure 1. Home page of the online Data Transmission Monitoring Tool (DTMT) (JRC and DG MARE View).

Id	Year	Country	End User	Data Call	Data requested	Issue	Issue type	Severity	Recurring	MS Comment	End User Comment	End User Assessment	STECF Comment	STECF Assessment	DG MARE Comment/Action	DG MARE Decision
2059	2017	Bulgaria	STECF	Med and BS	Discards	Paquet maxima in OCS Bulgaria	COVERAGE	UNKNOWN	[NOT ASSESSED]	All the data for the discards is only from the logbook in which the owner/captain of the vessel must write if there is any discard. The sampling by observer-board not seen in 2016.	No data for any species.	[NOT ASSESSED]	The justification from MS could be partially accepted.	SATISFACTORY		UNKNOWN
2059	2017	Bulgaria	STECF	Med and BS	Catches	Paquet maxima in OSA 20: Age and weight structures of the landings and discards not available	COVERAGE	HIGH	[NOT ASSESSED]	The missing data for the length structure of the landings will be provided during the next data call and the data for discards will be available after the observers on-board line starts with the report.	Although landings in weight were reported, no information on age/weight structure were provided.	[NOT ASSESSED]	MS's answer considered acceptable	SATISFACTORY		UNKNOWN
2060	2017	Bulgaria	STECF	Med and BS	Landings	Paquet maxima in OSA 20: Length structure of the landings not available	COVERAGE	HIGH	[NOT ASSESSED]	The missing data for the length structure of the landings will be provided during the next data call.	Although landings in weight were reported, no information on length structure were provided.	[NOT ASSESSED]	MS's answer considered acceptable	SATISFACTORY		UNKNOWN
2061	2017	Bulgaria	STECF	Med and BS	Landings	Mulus tataricus in OSA 20: Length structures of the landings not available	COVERAGE	HIGH	[NOT ASSESSED]	The missing data for the landings will be provided during the next data call.	Although landings in weight were reported, no information on length structure were provided.	[NOT ASSESSED]	MS's answer considered acceptable	SATISFACTORY		UNKNOWN
2062	2017	Bulgaria	STECF	Med and BS	Landings	Whiting in OSA 20: Length and age structure of the landings not available	COVERAGE	HIGH	[NOT ASSESSED]	The missing data for the landings will be provided during the next data call.	Although landings were reported, no information on length and age structure were provided.	[NOT ASSESSED]	MS's answer considered acceptable	SATISFACTORY		UNKNOWN

Table 1. Column headers, associated instructions and read/edit access rights.

Colours refer to user input permissions. **End-user input**, **MS input**, **STECF input**, **DG MARE input**

Generally all fields are available to view by all End users, STECF and DGMARE but write permission is only given to the different users according the colour scheme given below. Generally MS will generally only be able to view their own records

ID	automatically generated	
Year	Manual input: Insert year of the most recent data call. This field is used also to identify records by year	
Country	select from drop-down menu	
End user	select from drop-down menu	
Data call	select from drop-down menu	
Data requested	Manual input by end-user.	A formal data description which should be taken from the relevant table for each EWG/organization (see Annex 1below)
Issue	Manual input identifying the issue.	The text should be stand-alone and contain explicit detail to be self-explanatory See examples given below by EWG, these should only refer to the data with the issue, by field year etc. and not data that is satisfactory, see Annex 1 for examples.
Issue type	Select from drop-down menu (coverage, quality, timeliness - see text above for basis)	
Severity	Select from drop-down menu (High, medium, low, see text above for basis).	
Recurring Issue?	Select from drop-down menu (yes, NO, UNKNOWN). Mark yes if it is an issue that was raised previously, BUT do not raise it if for example, if the issue had been satisfactorily addressed previously. Do not report for example that MS 'A' did not provide data for 2008-2010 if the data transmission issue relates to a data call in 2017 and this was previously reported and dealt with in 2015	
MS Comment	Manual input by MS. MS should provide sufficient detail to allow the end-user to assess whether the issue has been adequately addressed or whether it should remain as a potential data failure.	
	Edit access: relevant MS only, Read access: end-user that raised the issue, STECF and DG MARE	
End-user comment	Manual input . Insert any appropriate comment that justifies the end-user assessment and suggested follow-up action. Note that in some cases end user and STECF will be one and the same.	
End user Assessment	Select from drop-down menu (NOT ASSESSED, SATISFACTORY, UNSATISFACTORY, Follow-up needed - see above)	
STECF Comment/proposed action	Manual input. Insert any appropriate comment that justifies the STECF assessment and suggested follow-up action	
STECF Assessment	Select from drop-down menu (NOT ASSESSED, SATISFACTORY, UNSATISFACTORY, Follow-up needed- see above)	
DG MARE Comment/action	Manual input . Insert any appropriate comment that justifies the DG MARE assessment and follow-up action	
DG MARE Decision	Select from drop-down menu (Not a DT Failure, Issue Closed, Failure)	

Figure 2. Add issue dialogue box.

Add Issue

country
Austria

year of the data call
2017

data call
2015 Update assessments (is

end user
[Not Assessed]

issue type
UNKNOWN

recurring
[NOT ASSESSED]

issue *

severity
UNKNOWN

data requested *

Save Cancel

Figure 3. Member State dialogue box.

edit compliance with id 2976

id	country
2976	France
data call	end user
Med and BS	STECF
data requested	
Discards	
issue type	recurrent issue
QUALITY	[NOT ASSESSED]
issue	
OTB discards in 2014	
ms comment	
<input type="text" value="We checked the value and we didn't see inconsistency."/>	
end user comment	
check value	
stecf comment	
MS response satisfactory	
mare comment	

parameters should be revised

Save Cancel Download Pdf

Table 2. Guidance for STECF evaluation of data transmission issues resulted from EWG-18-10.

Issue	EWG Assessment and associated comments
Unclear MS comment in reply to the issue flagged by the end-user.	Follow up necessary + a comment: "The comment by the MS is unclear."
The DT issue identified by an end-user is not clearly and explicitly described (End-user must always provide a self-sufficient comment/feedback to the EWG.)	Not assessed + a comment: "The end-user should be more specific in defining the deficiencies"
Information provided by end-users and MS is contradictory and there is no evidence to allow the EWG to give an assessment.	Follow up necessary + a comment: "The information provided by end-users and MS is contradictory".
MS mistaken on data transmission.	Unsatisfactory
The issue raised relates to lack of data collection and not data transmission. Hence, data will not be available but situation must be flagged.	Unsatisfactory A standard comment must be included. "Failure concerning data collection and not data transmission"
Data exists but MS fails to submit.	Unsatisfactory
When the issue raised is related to lack of punctuality on data transmission:	
1. If flagged by the End-user with "HIGH" or "Impact on the WG".	Unsatisfactory
2. If flagged by the End-user with LOW/MEDIUM severity and it proves to be a repetitive issue from past years.	Unsatisfactory
3. If flagged by the End-user with LOW/MEDIUM severity and it proves not to be a repetitive issue from past years.	Expert should judge according to the MS justification. (no fixed rules agreed)
If MS according to the agreed NP, plans to collect additional data beyond DCF requirements and does not transmit these data in response to a data call (this additional collection must be however clearly stated in the NP)).	Unsatisfactory
If the issue relates to data collected and called for in the past and data transmission has previously been evaluated.	Satisfactory The Standard comment "Issue is assumed to be closed since it relates to the past and data transmission has previously been evaluated."

Annex 1 - Values for 'Data Request' and Issues, by EWG

The information below is organised by EWG. Even though some of the data field names are the same for different calls (e.g. Landings), the values of these may end up being different, so they are dealt with separately for each call and should be reported separately in the DTMT. It is there accepted that to uniquely identify a data issue it will be jointly defined by "**Data Requested**" and a "**Data Call**" identifiers. Generally entries need to be understandable, so longer forms are used, but for species and gears the following codes are used to uniquely identify data items in the '**Issues**' field.

Gear type in the DCF appendix IV of the 2010/93/EC

[https://datacollection.jrc.ec.europa.eu/documents/10213/16106/2009-12-18 Commission Decision 93.pdf](https://datacollection.jrc.ec.europa.eu/documents/10213/16106/2009-12-18_Commission_Decision_93.pdf)

3-alpha code FAO ASFIS list of species <http://www.fao.org/fishery/collection/asfis/en>

FDI WG/data call

FDI Data request

One of the following descriptions should be entered in the Data Requested field

- Capacity
- Effort
- Landings
- Discards
- Landings length
- Discard length
- Landings age
- Discard age
- Spatial effort
- Spatial landings
- All data

FDI Issue examples

1. Data request = Capacity
 - a. Capacity not provided year 2015
2. Data request = Effort
 - a. Effort not provided TBB in year 2015
 - b. Effort not provided BEAM and DREDGE areas 27.7.d and 27.7.e
 - c. Effort not provided for vessels with length <10m
 - d. Effort not provided year 2017, although catches data provided same year
3. Data request = Landings
 - a. For 2017, total landed weight of all species is 2.5 times higher than the corresponding figure reported in Eurostat dataset
 - b. Landings not provided for quarters 2 and 3 years 2016 and 2017
 - c. Landings not provided for SPECON_TECH T90 for year 2015
4. Data request = Discards
 - a. Discard weight not provided for year 2015 and 2016
 - b. Discards year 2017 are ~ 10 times higher than the previous years; data should be checked to verify their reliability.
5. Data request = Landings length
 - a. No length frequency distribution was provided year 2015
6. Data request = Landings age
 - a. No landings at age data were provided for HKE
7. Data request = Discard length

- a. No discard length frequency distribution was provided year 2015
- 8. Data request = Discard age
 - a. Discard age data were not provided for any species
- 9. Data request = Spatial effort
 - a. Data not provided for vessels with length >18m year 2015
 - b. Spatial effort data were not provided for year 2016, even if spatial landings data were provided for the same year
- 10. Data request = Spatial landings
 - a. The latitude and longitude values have been swapped
- 11. Data request = All data
 - a. The vessel length was always provided with value Not Known

STECF Mediterranean and Black Sea Assessment EWG /Data Call

MBS Data requested codes

One of the following descriptions should be entered in the Data Requested field

Catch
 Landings length
 Discards length
 Effort
 Maturity ogive at length
 Maturity ogive at age
 Growth parameters
 Sex ratio at length
 Sex ratio at age
 Age length key
 MEDITS survey TA*
 MEDITS survey TB*
 MEDITS survey TC*
 Other surveys abundance by length and sex
 Other surveys biomass by length and sex
 Other surveys abundance and biomass by age and sex

* During the EWG for some parameters some cross-checking/ combining of between different data tables may be carried out. In this case the data request code should be modify accordingly (i.e. if there is a mismatch between table TA and TB the codes should be MEDITS survey TA_TB)

MBS Data issues examples

As a general rule the entry for this field should be reported to area (GSA) and the species (FAO 3 digit alpha code) at the beginning and then the details of the issues documented.

2.2.1 Data issues examples for data requested on Fisheries catch, landings and discards by length.

- 1) GSA_09_HKE. Landings in weight are missing in years 2002,2005,2006
- 2) GSA_09_HKE. Abundance by length classes are missing in year 2008 for gear OTB
- 3) GSA_09_HKE. Landings in weight and volume are missing in years 2002,2005,2006
- 4) GSA_09_HKE. Abundance by age classes are missing in year 2008 for gear OTB
- 5) GSA_09_HKE. Abundance and mean weight by age classes are missing in year 2008 for all gears

2.2.2 Data issues examples for data requested on Effort

GSA09_OTB. Fishing days are missing for years 2002, 2012 and 2016 (quarter 1)

2.2.3 Data issues examples for data requested Biological parameters and ALK (Age length Key)

GSA_09_HKE. Maturity at length data are missing for years 2002 and 2012.

2.2.4 Data issues examples for data requested from Medits surveys

GSA_09_HKE. Total weight reported in year 2002 haul number 102 different between table TB and TC.

GSA_09_HKE. Data in weight and number are reported for year 2002 haul number 102 even though the haul is not reported in table TA.

2.2.5 Data issues examples for data requested Other surveys

GSA_09_HKE. No abundance by length and sex are reported in year 2002.

GSA_09_HKE. Ratio between total biomass and abundance by length for year 2002 seems to low for the species.

Fleet Socio-economic data call

FSE Data requested

One of the following descriptions/data types should be entered in the Data Requested field

Capacity
Landings
Effort
Employment
Income
Subsidies
Expenditure
Capital
Social
Multiple*

*when the issue is broader than or covers multiple data types, for example, at the fleet segment level when only capacity data are reported and all other variables are missing.

FSE Data issues entries

- Data Issues should be reported at aggregated at the lowest level possible allowing to identify the issue by

- main issue +
- details, first give aggregation level, the detailed variable (see list below by Data Requested field), with year(s), fleet segment, species, sub-region, etc. added as necessary.

Main Issue type

Missing data
Partial data
Questionable data

Confidential*

*missing data due to confidentiality reasons; not necessarily a transmission failure (=missing data) but flagged to highlight the fact that full coverage of the fleet (national and EU) is not achieved because it has been withheld by MS.

Aggregation levels used for different variable types

Aggregation levels	Variable group	Variables
National total	All variables	all
Fleet segment	All variables	all
FAO area (sub-region, level 3 or 4, GSA)	Landings	Weight and value
	Effort	Days at sea, fishing days, GT and kW fishing days
FAO species codes	Landings	Weight and value

List of the variables by the variable group defined in 'Data Requested' field

Data requested	Issue - variables
Capacity	Number of vessels, age of vessels, mean LOA of vessels, total vessel power, total vessel tonnage
Landings	Live weight of landings, value of landings
Effort	Fishing days, days at sea, energy consumption, kW fishing days, GT fishing days, number of fishing trips,
Employment	Engaged crew, Total hours worked per year (engaged crew) (MAP), Unpaid labour (MAP)
Income	Gross value of landings, income from leasing out quota or other fishing rights, other income
Subsidies	Operating subsidies, subsidies on investments
Expenditure	Personnel costs, energy costs, other non-variable costs, repair & maintenance costs, rights costs, value of unpaid labour, consumption of fixed capital,
Capital	Fishing rights, Investments, Long/short debt (MAP), tangible asset value (replacement), total assets (MAP)
Social	Employment, FTE, unpaid labour

Aquaculture Socio-economic data call

Aquaculture Data requested

One of the following descriptions/data types should be entered in the Data Requested field

Income
Capital
Costs
Raw material weight
Employment
Number of enterprises
Sales
Social
Environmental
Multiple*

*when the issue is broader than or covers multiple data types (e.g. there are reported more enterprises than persons employed), and it is decided to report aggregated.

Aquaculture Data issues entries

- Data Issues should be reported at aggregated at the lowest level possible allowing to identify the issue by

- main issue +
- details, first give aggregation level, the detailed variable (see list below by Data Requested field), with year(s), segment, species, etc. added as necessary.

Main Issue type

Missing data
Partial data
Questionable data
Confidential*

*missing data due to confidentiality reasons; not necessarily a transmission failure (=missing data) but flagged to highlight the fact that full coverage of the sector (national and EU) is not achieved because it has been withheld by MS.

Aggregation levels used for different variable types

Aggregation levels	Variable group	Variables
National total	All variables	all
Segment	All variables	all
FAO species codes	Sales	Weight of sales and Value of sales per species
Medicines or treatments administered by type	Environmental	Medicines

List of the variables by the variable group defined in 'Data Requested' field

Data requested	Issue - variables
Income	Gross sales (total), Operating Subsidies, Other Income
Costs	Wages and salaries, Imputed value of unpaid labour, Energy Costs, Livestock costs, Feed costs, Repair and maintenance, Other operational Costs
Capital	Total Value of Assets, Consumption of fixed capital, Financial Income, Financial Expenditure, Net Investments, Subsidies in investments, Debt
Raw material weight	Livestock used, Fish Feed used
Employment	Persons employed, Persons employed FTE, Number of hours worked by employees and unpaid labour, Unpaid labour, Unpaid labour FTE
Number of enterprises	Number of enterprises with less or equal than 5 employees, Number of enterprises with 6-10 employees, Number of enterprises with more or equal than 11 employees.
Sales	Weight of sales per species, Value of sales per species
Social	Employment, FTE, Unpaid labour
Environmental	Medicines, Mortalities

Processing Socio-economic data call

Processing Data requested

One of the following descriptions/data types should be entered in the Data Requested field

Income
Capital
Costs
Employment
Number of enterprises
Weight of raw material
Social
Multiple*

*when the issue is broader than or covers multiple data types (e.g. there are reported more enterprises than persons employed), and it is decided to report aggregated.

Processing Data issues entries

- Data Issues should be reported at aggregated at the lowest level possible allowing to identify the issue by

- main issue +
- details, first give aggregation level, the detailed variable (see list below by Data Requested field), with year(s), size class, product, etc. added as necessary.

Main Issue type

Missing data
Partial data
Questionable data
Confidential*

*missing data due to confidentiality reasons; not necessarily a transmission failure (=missing data) but flagged to highlight the fact that full coverage of the sector (national and EU) is not achieved because it has been withheld by MS.

Aggregation levels used for different variable types

Aggregation levels	Variable group	Variables
National total	All variables	all
Size class (optional)	All variables	all
Product (optional)	Weight of raw material	Weight of raw material

List of the variables by the variable group defined in 'Data Requested' field

Data requested	Issue - variables
Income	Gross sales (total), Operating Subsidies, Other Income
Costs	Personnel costs, Value of unpaid labour, Payment for external agency workers (optional), Energy Costs, Purchase of fish and other raw material for production, Other operational Costs
Capital	Total Value of Assets, Consumption of fixed capital, Financial Income, Financial Expenditure, Net Investments, Subsidies on investments, Debt
Employment	Number of persons employed, FTE national, Number of hours worked by employees and unpaid labour, Unpaid labour
Number of enterprises	Number of enterprises.
Weight of raw material	Weight of raw material (optional)
Social	Employment, FTE

Annex 2 – Member States sections on Methodology, Data availability, Coverage, Problems encountered and other comments

1 Belgium

1.1 Methodology

TOTWGHTLANDG and TOTVALLANDG are based on combined information of logbook data and sale slips. The actual landed weight and value are split according to the logbook information on hours fished in the respective rectangles.

For the VESSEL_LENGTH, the length overall is related to the fleet throughout the year and not to the fleet on the 1st of January.

FISHING TECH of a vessel for a certain year was determined based on the highest fishing days recorded for a certain gear.

TOTSEADAYS, TOTFISHDAYS (table G) and EFFECTIVE_EFFORT (table I) were calculated using the 'fecR' package. TOTKWSDAYSATSEA and TOTKWFISHDAYS and calculated as respectively days at sea and fishing days multiplied by the power of the vessel in kilowatts at the trip landing date and area. Same approach for calculating TOTGTDAYSATSEA and TOTGTFISHDAYS with the gross tonnage of the vessel. The engine power and gross tonnage are related to the fleet throughout the year and not to the fleet on the 1st of January.

For the calculation of HRSEA, the total hours at sea of a trip was split proportionally to the days at sea, over the areas where fishing activity was recorded for that trip.

To determine TOTKW, TOTGT, AVGAGE and AVGLOA in table J, the fleet was not considered on the 1st of January. The most recent vessel configuration throughout the year was selected.

QUARTER and YEAR are based on the trip return date.

The biological data on discards, length and age distributions (discards and landings) have been processed to answer the ICES data calls and is based on sampling data from the at-sea observer programme conducted under the DCF. The thresholds applied for submitting biological data (discard quantity and length distributions (discards and landings)) are listed in table 1.1 and were updated through time. For the 2018 data call, an additional criteria of at least 50 age measurements was applied for the submission of age distributions. If data were requested for a data limited stock or for a species with the Irish Sea as stock area, all available data were provided.

Domains have been defined, corresponding to the sampling programme and are inserted in Table A. For species that have corresponding landings by quarter, vessel length group and/or fishing technique within the same discards domain, the annual estimates of discard ratio (discards/catch) have been applied to those landings to calculate the DISCARDS by quarter, vessel length group and fishing technique. Discard data from the logbooks were not used.

Table 1.1: thresholds for providing biological data

Year	Variable	Sampled							
		Trips		Hauls		Extra	Extra	Extra	
2015	discard quantity	2	and	30	and	stock is caught in minimum 15% of the sampled hauls			
	discards length distribution	2	and	30	and	stock is caught in minimum 15% of the sampled hauls	and	100 length measurements	
	landings length distribution	2	and	30	and	stock is caught in minimum 15% of the sampled hauls	and	100 length measurements	
2016	discard quantity	2	and	65					
	discards length distribution	2	and	65					
	landings length distribution	2	and	65					
2017	discard quantity	2	and	65					
	discards length distribution	2	and	65					
	landings length distribution	2	and	65					
2018	discard quantity	2	and	65					
		2			and	>=70 kg landings sampled weight			
		2					and	>= 20 kg discards sampled weight	
	discards length distribution	2	and	65					
		2			and	>=70 kg landings sampled weight			
		2			and	>= 20 kg discards sampled weight	and	discard ratio < 0.2	
	landings length distribution	2			and	>= 20 kg discards sampled weight		and	100 length measurements
		2	and	65					
		2			and	>=70 kg landings sampled weight			
landings length distribution	2			and	>= 20 kg discards sampled weight	and	100 length measurements		
	2			and	>= 20 kg discards sampled weight				
	2			and	>= 20 kg discards sampled weight		and	discard ratio >=0.2	

1.2 Data availability

The data was finalised and available by the data call deadline.

1.3 Coverage

General comments:

Belgium provided fleet specific landings data for the period 2015-2018 derived from official logbook databases for all vessels ≥ 10 meters. The data covers all areas in which the Belgian fleets are active and conform to the requested aggregation. There is no information on misreporting. Gear types such as trammels and seine nets are missing mesh size information. The beam trawl fleet targeting demersal fish with an engine power smaller or equal to 221 kW was not randomly sampled and therefore no refusal rate was calculated. In 2018 the sampling strategy changed and all the vessels were selected ad hoc, therefore no information on refusal rate was available. Belgium provided effort data for the period 2015-2018 for all relevant areas where the Belgian fleets are operational.

Data were marked as CONFIDENTIAL if the data relate to less than 3 vessels.

Comparison with EUROSTAT data:

*There's a different FAO code used for reporting anglerfish landings in the FDI data set versus the EUROSTAT data set. In the EUROSTAT data all landings of anglerfish are reported as 'ANF' whereas in the FDI data, the FAO code is different according to the stock. The landings in ICES area 27.4.a, 27.4.b, 27.4.c (stock anf.27.3a46) and 27.7.a (no stock defined for this area) are reported as 'ANF'. The landings in ICES area 27.7.d, 27.7.e, 27.7.f, 27.7.g, 27.7.h, 27.8.a and 27.8.b are reported as 'ANK' (stock ank.27.78ab) or 'MON' (stock mon.27.78ab). The sum of the landings of ANF, ANK and MON in the FDI data set (1118 t in 2015, 1450 t in 2016 and 1597 t in 2017) matches with the total landings of ANF in the EUROSTAT data set (1104 t in 2015, 1433 t in 2016 and 1578 t in 2017). The BSA landings should be excluded from the FDI data set to sum up the landings for anglerfish, as the EUROSTAT data set doesn't cover the BSA area.

*There's a smaller amount of Raja spp. ('SKA') reported in 2016 and 2017 under the FDI data call (12,34 t in 2016 and 1,31 t in 2017) compared to the EUROSTAT landings of 'SKA' (66,7 t in 2016 and 142,8 t in 2017). For the landings of rays by species, no substantial difference could be recorded.

* The number of vessels in table J of the FDI data set is less than the number of vessels reported in the EUROSTAT data set. For capacity, although the regulation states that the population is the fleet on the 1st of January, the most recent vessel configuration throughout the year was selected. This might explain the minor difference in the number of vessels.

Comparison with AER data:

For the AER data call, the fleet was not considered on the 1st of January. The most recent vessel configuration throughout the year was selected to determine kWDays, GTDays, kWFishDays and GTFishDays. For the FDI data call, the engine power and gross tonnage are related to the fleet throughout the year.

For the AER data call, the days at sea and fishing days calculation algorithm is analogous to the one applied by the fecR package. However, the calculated days at sea for a trip are split proportionally to the hours at sea over the ICES areas on which hours at sea were registered. Whereas in the fecR algorithm, the calculated days at sea for a trip is split equally over dates on which fishing occurs and the effort for each fishing date is split equally over the fishing activity on that date. For active gears in the AER data call, each fishing date has 1 fishing day that is split proportionally to the fishing hours over the ICES areas on which fishing occurs. Whereas in the fecR algorithm, each fishing date has 1 fishing day that is split equally over the ICES areas on which fishing occurs. The passive gears are treated equally. So, the total days at sea and fishing days in the FDI data set matches with the totals in the AER data set but the distribution by area is different.

1.4 Problems encountered

No other comments.

1.5 Other comments if relevant

No other comments.

2 Bulgaria

2.1 Methodology

All fishermen in Bulgaria are obliged to use fishing logbook based on the Bulgarian legislation. The logbook data, sales notes and fleet register data is stored in the database administrated by the Executive agency for fisheries and aquaculture. On the base of the data from logbook are calculated the number of fishing trips, days at sea, fishing days and hours at sea.

Regarding Bulgarian legislation there is no difference between small scale fleet and the large scale fleet. All owners of vessels used fishing logbook during the period covered by the FDI data call 2015- 2018.

Estimation procedures were not used because the sampling strategy in Bulgaria is census and data was available for each vessel.

The methodology used for calculation of effort was the same for all DCF data calls, but neither the R script have been used nor its logics been implemented in SQL or other software.

The scientific data related to landings is collected by the Bulgarian scientific institutes involved in data collection program.

There are no derogations, which are applicable for Bulgaria.

2.2 Data availability

All the data was finalised and available by the data call deadline. The data for capacity, landings and effort is available at the end of January for the previous year and the scientific data is available in May-June.

2.3 Coverage

There are no discrepancies between landings and effort tables. The only mismatch from the last year' data call – the difference between the landings and effort with GNS in 2015 and 2016 in regards to the mesh size range was edited in the 2019 data call. For 2015 and 2016 the reported effort with GNS was divided into effort with GNS with mesh size 00D14 and effort with GNS with mesh size 400DXX.

General comments

The sampling strategy used in Bulgaria data collection program is census, so the provided data covers the whole Bulgarian fleet, which operates only in the Black sea. The data by rectangle is based on VMS data for large scale fleet, vessels with active gears <12m and vessels which owned turbot quota, because they are also monitored by the VMS center. For the vessels under 12 m with passive gears the catch was allocated by rectangles based on the landing port.

The only difference in the provided data between FDI data call and other data calls is the data reported to the fleet-economic data call in which the required data for kW*Fishing days, GT*fishing days, kW*hours at sea and GT*hours at sea is only for dredges and trawls only (in Bulgaria the dredges are forbidden, so we provided these variables only for the trawls). For FDI these variables are calculated for all fishing gears.

The provided data for discards is only from the logbook data.

Comparison with Eurostat data.

The number of vessels is different in FDI data and Eurostat data because the number of vessels provided to Eurostat includes the inactive vessels, while the data in the FDI is only for the active vessels.

Publication of confidential data

The data provided in this data call is not considered as confidential. The value of the sales is calculated as the landings are multiplied by the average price per species from the sales notes for the whole fleet.

2.4 Problems encountered

Problems related to data collection

The only problem faced during the preparation of the data call was related to the spatial landings and spatial effort. The reason for this is because the catch/landing/effort data and the VMS data are stored in two different data bases. Table H and Table I were prepared manually by combining the information from both data bases. Measures have been taken to link the two databases for the next data call.

Problems related to data submission

There were no problems related to data submission.

2.5 Other comments if relevant

The provided data for the discards is from the official data sources.

The de-minimis is not applicable for Bulgaria. The only survivability exemption is defined in the Commission Delegated Regulation (EU) 2017/87 of 20 October 2016 establishing a discard plan for turbot fisheries in the Black Sea.

3 Croatia – text from 2018

3.1 Methodology

Data collected and derogations (if applicable)

- (1) No derogations are used for data on fishing activities (catch, landings, discard, effort) and capacity.
- (2) Data collection on biological - métier-related variables and biological - stock-related variables is according to Table 1 - Data Collection specification, at the end of this document.

Estimation procedures (in case something been used, e.g. estimation of landings and effort for the small scale fleet)

No estimation procedures are being used for reporting on landing, discard and effort data. Data on landing, discard and effort data is collected on a census basis from the entire fleet (active and inactive vessels). For vessels below 10m LoA using passive gears a monthly fishing report is applicable in which case fisherman report data for each fishing trip. Data for landing value is estimated using average prices from sales notes. Biological estimates are made on the basis of official landings and discard data.

For certain species fisherman report landing data on genus level (*Eledone spp* and *Trachurus spp*), therefore landing data in table A is reported as such. However, biological data on species level for those species is estimated on the basis of MEDITS sampling data and detailed analysis of landing during monitoring of métiers, including the following species: *Eledone cirrhosa*, *Trachurus trachurus*, *Eledone moschata*, *Trachurus mediterraneus*.

Discard calculation

Official discard data is used.

Calculation of effort (following joint methodology or not). Tell us if R script have been used or its logics been implemented in SQL or other software.

All effort calculation procedures are implemented in SQL following the logic agreed within the WS on Transversal variables.

Specific indicators (e.g. refusal rate)

Currently refusal rate is not recorded.

3.2 Data availability

Please comment if all the data was finalised and available by the data call deadline. When it can be available and provided in case there is a delay.

All the data was finalised and available by the data call deadline.

3.3 Coverage

Please have a look at quality checks in Tableau and provide your comments regarding the data collected and provided during the data call.

General comments

Provide general comments related to data coverage, explain why data is missing (in case something is missing)

Landings vs Effort

The errors reported in Tableau (null fish days/sea days) are due to the fact that effort data is aggregated to secondary (clustered) fleet segments, while data contained in Table A is aggregated to primary (unclustered) fleet segments. In fact there is no missing data, as the effort is attributed to the relevant main fleet segments.

The fleet segmentation procedure is done each year for the previous year where fleet segments are calculated on the basis of fishing activity data and capacity data. Data on primary and secondary fleet segments is attributed to each vessel and stored in the national data base. These fleet segments present sampling and reporting units for the Fleet economic data call. The FDI data-call does not specify if the same units should be used or if a separate aggregation should be done where data is statistically aggregated on the basis of fishing technique and vessel length categories. It should be clearly specified if effort should be assigned to vessels and attributed fleet segments or if a separate statistical aggregation should be made.

Wghtlandg vs Vallandg (Data with Totwghtlandg > 0 and Totvallandg = 0 (in table A)

The errors reported in Tableau are not errors but reflect the real situation in the Bluefin tuna fisheries. Namely, the total landed weight corresponds to total PS catch which is transferred to cages for farming purposes. As there is no PS-BFT landing per se, the landing value is not provided. All income related to PS-BFT catch is afterwards realized by the BFT farms (BFT catching vessels are owned by the farms).

Domains Landings (table A & E; A & F and Domains Discards (table A & C; A & D)

Comparison among domains between table A and tables C, D, E and F showed incompatibilities in codification of domains between tables. The main reason was the format of table A that is disaggregate at quarter level while other tables have annual disaggregation. Domain codification was done following criteria stated in Appendix 7 of official letter. The errors reported in Tableau were fixed upon resubmission of table A with updated Domain codification that match ones in tables C-F.

Some errors remain regarding reporting the data at genus level for some species as it was already stated in above.

Domain Landings total; Domain Discards total

The differences in total weight of landings value reported in table A among table E and F are insignificant. The average value of statistical error between landings among tables for certain type of fisheries and species is 0.9 %.

The differences in total weight of discards value reported in table A among table C and D are insignificant. The average value of statistical error between discards among tables for certain type of fisheries and species is 3.9 %.

Domain Discards (table C & D)

Comparison among domain discards from table C and from table D showed rows with absent domain discards in one of the tables. Improved methods will be implemented in SQL or data quality check based on R scripts to avoid further errors.

Comments in case there is any difference with other STECF data calls, e.g. effort calculation for economic data call, or something missing/more data provided compared to economic or meds data calls)

Although the same logic is used to calculate effort, depending on the data aggregation levels the results may differ (economic fleet segment, FDI domain, metier level 6; temporal and geographic stratification).

Comparison with Eurostat data.

Provide any relevant comments regarding comparability of the data set provided (landings and capacity) with Eurostat data. Explain reasons for difference in case there is any difference.

Data for EUROSTAT for 2014-2016 was updated by the end of August to include the final landing statistics and in order to harmonize the data sets. Additionally, the difference in the number of vessels (ESTAT vs FDI data) is due to the fact that FDI does not include inactive vessels. In case the Tableau is updated with the latest ESTAT data, there should be no significant differences.

Publication of confidential data. No apparent confidentiality issues.

3.4 Problems encountered

Problems related to data collection

No apparent problems encountered.

Problems related to data submission

Major problem associated with the data submission deadline (3rd July 2018). FDI data call deadline coincided with the Mediterranean & Black Sea data call deadline. Even though the data is mostly the same, the reporting formats are different and require separate data handling procedures and data management.

Additionally, several GFCM DCRF tasks should be transmitted to GFCM by 30th June, including the following:

DCRF Task II.1 - Landing data

DCRF Task II.2 - Catch data per species

DCRF Task V.1 Effort data per fleet segment

DCRF Task V.2 Effort data per fishing gear

DCRF Task V.3 Effort data CPUE

DCRF Task VII.5 - Red coral

As this is the period when MEDITS survey is scheduled, it is very difficult to dedicate time and personnel for additional reporting.

3.5 Other comments if relevant

Significant numbers of duplicate rows were recognized by the Data Validation tool (DVT), mostly for DRB and FPO gear types. At national level these gears are disaggregate according to mesh size. At the same time, DVT does not allow input of mesh size range for these tools and it should be replaced by "NA" as it is stated in Appendix 7. The results of this procedure is recognition of the rows as duplicates This false recognition of duplicates could seriously affect further analysis of data. In order to resolve this situation further consultation should be done.

4 Cyprus – no information provided

5 Denmark

5.1 Methodology

Denmark has a database for transversal data, where logbook data and sales notes data are merged by trip, and information from the fleet register is added. Landings and value of landings are based on sales notes, while information on gear and ICES rectangle are from the logbooks. For industrial fisheries targeting sprat, sandeel and norway pout, the main species is reported in the logbooks but there might also be a small amount of other species in the landings. Samples are taken to find the species composition of the landing by area, ICES rectangle, month and target species. This is done by the Danish Fisheries

Agency, and the species composition is applied to official landings, and also to the FDI datacall.

Fishing technique (FISHING_TECH) is added from a file from Statistics Denmark that has defined the fishing techniques for each vessel for the STECF fleet economic datacall.

Vessels less than 10 m oal (8 m oal in the Baltic) are not required to report logbooks. For these vessels, sales notes are reported for each landing. Using the species composition for these trips and the gear reported in the fleet register, a procedure has been developed to estimate métiers, gear and mesh size range.

If there are less than three vessels in the aggregation level in tables A, G, H and I, they are marked as confidential.

The SPECON codes "GRID35" and "SELTRA" are based on logbook registrations on selection panels in areas 27.3.a.20 and 27.3.a.21. In the Baltic, BACOMA and T90 are not registered in logbooks and therefore these codes are not reported in the FDI datacall.

The biological data on discards, length and age distributions have been processed to output to both ICES datacalls and the FDI datacall and is based on sampling data from two sampling programs: the at-sea observer programme and the at-market sampling programme conducted under the DCF. Domains have been defined, corresponding to the sampling programmes and are inserted in Table A. Discards are estimated based on the at-sea sampling data. For species that have corresponding landings within the same quarter, vessel length group, métier, discards domain and subregion, the discards are distributed to the aggregation of table A based on landings. If the species doesn't have corresponding landings, the discards are distributed to the aggregation of table A based on effort. This means that there can be lines with discards but no landings. In some cases there are length measurements for species (table D and F), where there is no age reading (table C and E).

Landings below minimum conservation reference size (BMS landings) are found from sales notes and landing declarations and added to the total landings. There can be BMS landings without value of landings if they are not sold.

Refusal rates from the at-sea observer programme have been uploaded to table B.

In table A, the discards are partitioned by landings within the same year, quarter, vessel length group, métier, discards domain, sub region and species. If there is no samples of discards within that aggregation, the code "NK" is inserted.

Effort calculations are based on the principles agreed at the 2nd workshop on transversal variables in Nicosia 2016, but implemented in SAS. For vessels without logbooks, the effort calculation is based on sales notes where a trip (vessel-id + landing date) is assigned one day at sea and one fishing day.

5.2 Data availability

Transversal data (logbooks, sales notes, fleet register) is transferred from the Danish Fisheries Agency to DTU Aqua every night. Some errors may be corrected in the data from a previous year, but that is mainly done during the first quarter, so the data were available by the data call deadline. The processing of the biological data need to be finalized before the ICES data call and stock assessments, during the spring.

5.3 Coverage

5.3.1 Data checks

The effective effort (table I) is often smaller than the total fish days (table G). This is because in table I only effort by ICES rectangle from vessels with logbooks is known. In table G the total fishing days is calculated based on fishing days reported in logbooks. For vessels without logbooks, sales notes are available, and for each trip (vessel id + landing date) one fishing day is assumed.

Some species have a length measurement, but no age reading. This means that there can be domains in table F (length measurements) that does not exist in table E (age readings).

The total landings were lower in 2016 compared to 2015 and 2017 because of a very low sandeel quota.

5.3.2 Confidentiality

If there are less than three vessels in the aggregation level in tables A, G, H and I, they are marked as confidential.

5.4 Problems encountered

No problems encountered.

5.5 Other comments if relevant

No other comments.

6 Estonia

6.1 Methodology

Official Information on landings/catches and effort by species, areas, gear types and mesh size was obtained from the Estonian Fisheries Information System (EFIS). EFIS compiles all logbook information as well as information on prices, sales etc. Fisheries data collection takes place according to DCF methodology and no derogations have been applied. Estonian fishing fleet is operating mainly in the Baltic Sea and to a limited extent also in the Northern Atlantic.

Estonian fishing fleet in the Baltic Sea consists of pelagic trawlers targeting sprat and herring, and of small boats operating in coastal fishery of herring (with fixed pound nets) and other species, incl. freshwater fish. The discarding is prohibited by law and may only take place in very limited scale (if any) e.g. in case of catches of below MCRS fish in coastal fishery (salmon and perch). The official discard estimates are provided in the dataset.

In case of collection of biological data the minimum threshold of 100 fish for length measurements and 50 specimens for age measurements are applied in sampling of pelagic fleet and in sampling of herring coastal fishery. No threshold is applied in sampling of coastal small scale fishery.

All effort calculations were performed using the logbook information and landing declarations. No R script has been used in effort calculations.

For fleet segments landing values were estimated based on prices derived from sales slips multiplying by weight from landing declarations.

No refusals in getting biological samples and other relevant information were reported in 2015-2018.

6.2 Data availability

All requested information was provided by the FDI data call deadline.

6.3 Coverage

Provided data covers all Estonian commercial fishing fleet, which operates in Baltic Sea. Information about recreational fishery in Baltic Sea were not provided.

General comments

Discrepancies between "Landings vs. Effort" (Tables A vs Table G) is caused by the missing information on effort of small (below 10 m) boats in coastal fishery. In case of the small boats, only information of Sub-region level is available. The scarcity of respective information prevents presenting the effort estimates by the statistical rectangles.

Discrepancies between "Spatial effort and Effort" (cases where the total fishing effort in Table I was greater than in Table G), were due to typing errors. The issue was solved during the EWG meeting and the respective tables were re-uploaded.

Discrepancies described in the table "Wghtlandg vs. Vallandg" were caused by the lack of information on first sale prices for some species in the coastal small-scale fishery (small boats under 10 m) .

On overall, most of the requested information was available and presented except the effort of the small (under 10m) boats.

Comparison with Eurostat data.

Landings and capacity data provided was very close to the information reported to Eurostat. The observed differences may be partly explained with the counting of inactive vessels in Eurostat dataset.

All information provided by the Member State during the FDI data call is regarded as not confidential.

6.4 Problems encountered

Member state encounters persistent problems in obtaining effort information from the small, under 10 m boats operating with passive gears (coastal fisheries). In case of the small boats only information of Sub-region level is available. The scarcity of respective information prevents presenting the effort estimates by the statistical rectangles.

Additionally, obtaining of the value estimates for the long distant fleet, what lands outside of Estonia is complicated.

6.5 Other comments if relevant

No other comments.

7 Finland

7.1 Methodology

Data collected and derogations (if applicable)

Commercial marine fishery statistics comprise information on the number of commercial marine fishermen, the volume and value of the catch and the spatial distribution of the catch and fishing effort. The data are based on periodic catch declarations by commercial

fishermen. Everyone engaged in commercial marine fishery in Finland is obliged to provide catch declaration. Captains of vessels that are at least 10 meter in length are using the EU log-book to submit catch data for the monitoring authority. Fishers using a vessel less than 10 meter in length submit the data by a coastal fishing journal that is aggregated by a month. However, he is applying a landing declaration if he is catching salmon, sprat, cod or herring (more than 50 kg of herring per day).

Estimation procedures (in case something been used, e.g. estimation of landings and effort for the small scale fleet)

Estimation procedures haven't been used. The statistics are compiled based on the assumption that everyone engaged in commercial fishing in the sea areas has complied with the statutory obligations and submitted catch reports.

Discards calculation

Nominal catch refers to the catch landed by fishermen or transshipped at sea. For statistical purposes, this is reported in kilograms live weight, i.e. the weight of ungutted fish. Discards, for example fish damaged by seals, are not included in the nominal catch. The major cause for discarding in the Finnish commercial marine fishery is damage caused by seals, cormorants and other predatory species on the fish trapped or entangled in the fishing gear. Discards are not included in the landings data.

In the revision process at the STECF it has been highlighted that in the Landings vs Discards (table A), Comparison of Totwghtlandg and Discards, there are cases where Discards>Totwghtlandg. We confirm that these data are correct.

Calculation of effort (following joint methodology or not). Tell us if R script have been used or its logics been implemented in SQL or other software.

The number of units of fishing gear in any spatial statistical unit is calculated as the sum of fisherman-specific highest number of units of gear simultaneously deployed in the area. The number of fishing days is the total number of fishing days of all fishermen for the corresponding gear, regardless of there was any catch being reported. Fishing gear is deployed for a variety of duration and also the number of gear varies. This variation is taken into account in fishing gear days (trap net, gillnet and trawl days), for example five days of fishing with ten nets totals fifty net days.

Specific indicators (e.g. refusal rate)

Information of refusal rates was not collected in Finland between 2016-2018.

7.2 Data availability

Please comment if all the data was finalised and available by the data call deadline. When it can be available and provided in case there is a delay.

All the data was finalised and available by the data call deadline. Corrections asked by the Commission have been completed and data re-uploaded to the database.

7.3 Coverage

Please have a look at quality checks in Tableau and provide your comments regarding the data collected and provided during the data call.

General comments

Biological data was not raised to total landings weights. Sampling probabilities required to produce comfortable raising for herring and sprat data will be available 2019 onwards.

Provide general comments related to data coverage, explain why data is missing (in case something is missing)

Nothing is missing.

Comments in case there is any difference with other STECF data calls, e.g. effort calculation for economic data call, or something missing/more data provided compared to economic or meds data calls)

Comparison with Eurostat data.

Provide any relevant comments regarding comparability of the data set provided (landings and capacity) with Eurostat data. Explain reasons for difference in case there is any difference.

There is no difference between Eurostat and FDI data call data.

Publication of confidential data

Data call material includes confidential information and it is, therefore, forbidden to reveal or publish the data outside the original purpose, i.e. the FDI data call.

7.4 Problems encountered

Problems related to data collection

None.

Problems related to data submission

This data call should be about 1 month earlier next year (during June) in order to have staff available.

We remain uncertain whether the discards should be included in the landings data. Discards are not included in the landings data in Finland for the sake of coherence of the time series. Please, advise us about the matter.

7.5 Other comments if relevant

No other comments.

8 France

8.1 Methodology

In accordance with the French DCMAP working plan 2017-2020, the French data submission for this data call is based on the following sources of information:

- 1. French fleet register** (vessel characteristic (length overall, kilowatt, gross tonnage, age of the vessel), geographical indicator, total number of vessels)
- 2. Annual fishing activity calendars survey¹** (active/inactive vessels, typological classification of vessels by fleet/fishing technique coding, fishing area, métier)

¹ **Annual fishing activity survey** is conducted by fishing observers yearly in France on the basis of preliminary documentation provided by available data (*fleet register, logbooks, monthly declarative forms, sales note data, geolocalisation data, on-site samplings data*). It **covers the whole of the reference population** (*also vessels not cover by available data*), take place every year in the first month of the year on the previous year and aim at characterizing each year the inactivity or activity of all the vessels each month of the year and, in the latter case, the métiers practiced and the main fishing areas (*Berthou et al., 2008*). These data provide information on the part of fishing activity not included in available declarative data (*completeness check of the available*

3. **Logbooks** (*over 10m'vessels*) and **monthly declarative forms** (*less 10m' vessels, declarative forms adapted to the special features of the small-scale coastal fisheries*) (total weight of landings by species, fishing effort (number of trips, days at sea, fishing days and hours at sea), fishing area, gear and mesh size)
4. **Sales note data** (total weight and value of landings by species)
5. **Geolocalisation data** (*inc. VMS data*) (fishing effort (number of trips, days at sea, fishing days and hours at sea), fishing area)
6. **Complementary on-site sampling of trips**² (*catch assessment survey*) (total estimates of weight and value of landings by species, fishing effort estimates (number of trips, days at sea, fishing days and hours at sea), fishing area, métier)
7. **Scientific observer sampling data** (discards estimates, length and age distributions)

The definition of the reference fleet population follow the definition of Commission decision 2016/1251 (*any vessel registered on 31 december or which has fished at least one day in the year up to 31 december*) in order to have a comprehensive view of the fishing activity applied during the year.

The definition of all the fishing trips of the French fleet with their associated features (*dates, fishing area, métier, gear and mesh size, total weight and value of landings by species*) is based on a cross-validation tool: SACROIS³ of the different available data (*fleet register, annual fishing activity calendars, logbooks, monthly declarative forms, sales note data, geolocalisation data*) aiming to provide the best possible fishing statistics data.

A specific algorithm is included into SACROIS to estimate the value of landings based on sales note data available (*sometimes directly deducted from them*) or estimation of an average price. For some fleet segment, estimated price based on expert knowledges is

declarative data) and also the basis, if necessary, to re-evaluate available fishing activity data estimates (*in case of incomplete data for example*).

² **Complementary on-site sampling of trips** (catch assessment survey) is used to estimate fishing activity variables estimates of vessels for which the coverage and precision of their available declarative data are insufficient to meet the end-users needs. The sampling scheme is based on the frame survey (Activity survey) useful to optimise the strategy of the spatio-temporal on-site sampling plan. Fishing trips features, effort and catches and weekly activity calendar (effort) are sampled directly on-site, when the fishers come back to the harbour. The raising method is based on a post-stratification of the fishing trips and weekly calendar sampled and the use of the percentile bootstrap to estimate the precision. In 2015, 2016, 2017 and 2018, this applies for vessels under 12m in the Mediterranean continental area (GSA 07), Réunion (geographical indicator: RE), Mayotte (YT), French Antilles (Martinique – MQ and Guadeloupe - GP) and French Guiana (GF).

³ **SACROIS** (<http://sih.ifremer.fr/Description-des-donnees/Les-donnees-estimees/SACROIS>) is a validation tool for the fisheries statistics, aiming at cross-checking data from different declarative sources, as demanded in article 145 of the EU control Regulation (EC Reg. 404/2011). The application is crossing information, at the most disaggregated level, from the fishing fleet register, logbooks, monthly declarative forms, sales notes data, geolocalisation data and the scientific census of annual fishing activity calendars, in order to build a dataset compiling the most accurate and complete information for each individual fishing trip. The application verifies and controls the different sources of data, with the aim of displaying validated and qualified landings per species and effort data series. The application provides also several quality indicators and evaluates the completeness of the data flows.

also used. **This algorithm allow to estimate value of almost every landings, only few species/fleets do not have value assigned. The two principal fleets without value assigned are the tropical purse seiner and the Guiana shrimp trawler.**

SACROIS include also the allocation of a single metier to a fishing trip, based on the dominant landed specie (*or group of species*) in value, the vessel' activity calendar survey and eventually the declared gear (*see detailed methodology explained in 'Anonymous, metier workshop report, 2018'*).

For French fleets for which the coverage and precision of their available declarative data (*basically SACROIS data*) is insufficient to meet the end-users data needs (*e.g. DCF requirements*): 1) complementary on-site sampling data could be collected (*catch assessment survey*) and-or 2) re-evaluation methodology (*on the basis on the annual fishing activity calendars survey*) could be applied, in order to calculate the reference fishing activity' estimates.

Based on that, fishing capacity and activity' estimates could be calculated for the whole of the reference population (*French fleet register including overseas fisheries, long distance fisheries and small-scale fleets*). They are conform to the requested aggregation (*by year, quarter, vessel length classes, fishing technique, gear and mesh size, métier, fishing area*) and cover all the areas where French vessels are operated.

Fishing effort estimates (*number of trips, days at sea, fishing days and hours at sea*) have not been calculated by using the generic R script provided for this data call as is not suitable for vessels without logbooks and for vessels outside FAO area 27 (*need to have ICES rectangle*). Nevertheless, the common joint methodology developed during the 2nd transversal variables workshop was implemented on our data (*development of an adapted R script*) in order to calculate the estimates and answer the datacall.

Discards and length/age distributions estimates have been calculated based on the scientific observer sampling data (*at sea and port-sampling program*). The discards data from logbooks were not used.

Spatial distribution asked in the tables H (landings by rectangle) & I (effort by rectangle) are derived from the SACROIS data which are spatialized at the most disaggregated spatial level available in the declarative data (*logbooks, monthly declarative forms*) and the vessel' activity calendar survey. They have been completed for geolocalised vessels (*inc. VMS' vessels*) to provide spatial information at C-square level.

Unlike fishing capacity and activity' estimates (*see above*), biological data estimates are not available at the level of disaggregation requested (*notably for discards estimates asked in table A*). Indeed, discards and length/age distribution estimates are calculated following specific strata definition in space, time and metier in respect with the sampling design. They are estimated after a post-stratification process where metier, fishing area and quarter could be aggregated in order to maximize the number of sample by strata and provide the most complete information possible for a given stock (*i.e. level of disaggregation available is determined by the number of samples*). Additionally, strata definition are annually specific for each stock assessed. As an example, for the sole stock in 27.7.d and for the ICES datacall in 2018, the OTB_DEF_70-99_0_0 metier submitted in Intercatch encompass the following declared metier: OTB_CEP_70-99_0_0, OTB_DEF_70-99_0_0, OTB_MOL_70-99_0_0, OTB_SPF_70-99_0_0, OTT_CEP_70-99_0_0, OTT_CRU_70-99_0_0 and OTT_DEF_70-99_0_0.

This complex process applied annually specifically by stock (*based on expert' analysis*) do not allow to provide biological data estimates strictly following the domain definition requested in the FDI datacall (*notably for the mesh size range*). Nevertheless, a domain (*following as far as possible the domain definition detailed in the Appendix 8*) has been associated to each of the validated biological estimates calculated by expert (*e.g. by ICES stock assessor*) and submitted in the tables C-D-E-F following the strata they retained to extrapolate the sample (*e.g. submitted ICES strata*). **This has the benefit to provide only approved biological data estimates.**

Strata have been re-coded in order to fully follow the domain definition but, in most cases, do not reflect all the métiers/fishing area aggregated in order to build the strata (*see example above*). **Consequently, it is not possible to use straight the domain definition available in tables C-D-E-F to link biological data estimates provided in these tables with information available in table A** and "domain_discards" and "domain_landings" information were therefore not submitted in table A.

Finally, the partitioning of discards estimates available in tables C-D-E-F (*according to strata used to calculate the estimates*) into detailed categories asked in table A was also requested by the FDI datacall following the conclusion of the STECF Expert Working Group 17-12 which nevertheless, and in the same time, emphasizes the limited meaningfulness behind any partitioned estimates (*'estimates will likely not be statistically sound and may be biased because for example of the need to assume equal discard rates among the disaggregated levels contained within the retained strata'*). **Regarding that discards information available in table A are of major importance for the EWG and nevertheless the issues raised above, discards estimates partitioned were provided in table A based on the methodology described below. Nevertheless, it is reemphasized here that approved discards estimates could be only found in tables C-D.**

The methodology followed for partitioning the discards estimates at the level of disaggregation asked in table A is: 1) aggregation of the discards estimates available in table C by year, quarter, sub_region, gear_type and species, 2) sum of landings provided in table A by year, quarter, sub_region, gear_type and species and calculation of the landings percentage for each of the concatenated row and 3) discards estimates partitioned by row proportionately to the landings using the values calculated in 1 & 2 (total discards * landings percentage).

So far, only very few data have been highlighted as being confidential because a common approach is missing. However, there are many issues related to these data where certain lines hold information for less than 3 vessels. Before any data are published (*e.g. in dissemination tools*), a further check is needed to identify issues based on a common agreed approach in line with European law. In addition, often not all variables are regarded as being problematic. For example, information on the value of landings or discards is more sensitive than landings. Options are missing to define in more detail what is confidential and what not.

8.2 Data availability

Complete French data have been uploaded before the deadline of the data call also taking into account the different checks done during the upload process. Some adjustments of the data have been done before the operational deadline and during the first two days of the EWG taking into account the data checks carried out on the data provided during the FDI call and available online at

https://datacollection.jrc.ec.europa.eu/en_US/data-analysis/fdi. The current data can be regarded as final given current knowledge. However, data could be improved/completed before next datacall and in this case they will be re-upload for the next year datacall.

8.3 Coverage

French data available in the FDI database for 2015, 2016, 2017 and 2018 cover all the French fleets including overseas fisheries, long distance fisheries and small scale fleets.

Up to now, no upload facility is given for data where area information (*at the sub-region level*) is missing. Few French fishing statistics data (*less than 1%*) have area information available only at the supra-region level (*FAO area*). These data are therefore missing in the FDInew database.

Considering the spatial distribution tables H&I (*landings and specific effort data by rectangle/c-squares*), **spatial data have been submitted for all the fleets considering the finest spatial distribution available including C-square level for geolocalized vessels**. Some assumptions have been considered to provide all the data at the level asked in the datacall (*e.g. GFCM squares in FAO zone 37*) by proportionally distributing the available spatial data (*especially for non geolocalised vessels for which some of the data could be only available at a more aggregated spatial resolution*) but only as long as it was acceptable. For example, for fleets operating in FAO zone 27, some fishing activity data (*~5% in landings*) have only area information available at the sub-region level (*e.g. ices division, no ices rectangle available*) and could not be derived at the finer spatial resolution asked. As a consequence, spatial distribution tables are not fully consistent with data provided in the tables A and G (*total fishing effort and landings by species figures could differ*), but it remains negligible.

Comparison with Eurostat data.

Minor differences occurred between FDI data and Eurostat likely caused by differences in time and completion status of available data when the estimates were provided. Mainly, species and areas reported in Eurostat are available in the FDI database and vice versa.

Nevertheless, some issues could occur on the codification of species used that could differ between the two database (as an example in 2016, 'ANF- Lophiidae' is used for EUROSTAT when 'MNZ- Lophius spp' was used for FDI).

8.4 Problems encountered

No more problems have been encountered.

8.5 Other comments if relevant

No other comments.

9 Germany

9.1 Methodology

The German data submission for this data call is based on the following sources of information:

1. Logbook and Landings data (landings, value, effort, spatial effort and spatial landings etc.)
2. German fleet register (Number of vessels, Fleet determination etc.)
3. Scientific observer data (Discards, length and age distributions)

Effort has been estimated by using the generic R script provided for this data call. Germany provides information for all vessels with an obligation to report all necessary

information in logbooks. Vessels <10m in the North Sea and and vessels < 8m in the Baltic do not have an obligation to fill in logbooks.

Discards were estimated based on observer data and not from logbook information as the landing obligation was still not fully implemented in 2018 (last year of the data call). For metiers that were not sampled, an NK for "not known" was provided to allow for JRC raising routines to be used to fill gaps.

Germany has so far not highlighted data as confidential. However, there are issues related to these data where certain lines hold information for less than 3 vessels. It needs to be made clear upfront what type of data and in which detail (aggregation level) the data will be made public to make the confidential field useful. Options are missing to define in more detail what is confidential in a table (e.g., landings are unproblematic, but value of landings by metier may be problematic).

The discard and biological data sampled in a certain domain are used in Table A in a finer disaggregation level. The distribution of total discards at the domain level to the more detailed disaggregation level in table A is done by using the landings information in Table A. Because of this, it needs to be born in mind that discards rates, age and length distributions are assumed to be the same inside a sampling domain although differences may occur in reality.

9.2 Data availability

All requested data were uploaded before the deadline of the data call. With the help of the JRC checking routines smaller issues were encountered. Therefore, Tables A-F were re-uploaded before the operational deadline. The current data can be regarded as final given current knowledge. However, the German administration implemented a new database for logbook and landings data in 2017. This could have led to problems not yet encountered.

9.3 Coverage

For the four years all requested data were provided for all tables before the deadlines. For some metiers with small importance (i.e. trips with mussels as target species) catches were reported but no effort. The metier field makes it likely that for the same trip slightly different allowed codes are used if different people work on different tables (ie. landing and effort). On a similar aggregation level, but without using the metier field and instead the columns holding the gear, mesh size and target assemblage information, effort and landings may still match.

Comparison with Eurostat data.

Only very minor differences (<1% for EU waters) occurred between FDI data and Eurostat for 2015 and 2016. More differences in landings weight occurred for 2017 only. This was the year when the German administration introduced its new database. While logbooks were corrected and updated during 2018 and 2019, submissions to Eurostat may not have been updated. Therefore, the FDI data are likely more representative than the Eurostat data for this particular year.

9.4 Problems encountered

Vessels without logbook data (small vessels u8m in the Baltic and u10m elsewhere) are problematic. A common approach to answer the data call for these vessels where data by fishing trip is not available would be beneficial before useful summaries over different countries can be achieved. An extra table with less details for these vessels could also be an option.

The metier field in its current format is not useful as various codes can be used for one single gear and mesh size combination in a given area. This makes it difficult to compare between countries but it also creates problems inside the country if different people work on different tables. Further guidance is needed to ensure that all use the same metier definition in the same situation. In general, the metier field could be deleted as all important information is already provided in the other columns including the target assemblage.

Especially the target assemblage DEF is not very helpful. Too many different fisheries count as DEF. A further differentiation (e.g., roundfish vs. flatfish) could be beneficial.

There are some cases where for the same domain, species and length class two entries with different numbers at age or length are in the database. This, however, is unproblematic as these can simply be summed over the domain, species and age/length class. The SOPs have been checked and perfectly match the landings and discards in weight when summing over the domain. Never the less, an additional check by JRC during the upload could help to spot such cases early in the process next time.

9.5 Other comments if relevant

As requested in the data call, Germany provided discard information based on scientific observer trips. Therefore, all uncertainties related to catch sampling and raising at fleet level applies to the values provided. Next to this, unsampled metiers were filled with information from other countries by JRC (so called fill ins). This adds further potential uncertainties and potential bias. However, in the result tables discards with and without fill-ins are provided and therefore both values can be easily compared.

For the first time, this year the length frequency data have been used to calculate the percentage of undersized fish in the landings and discards. Similar to the overall discard rates it needs to be highlighted that this is based on observer data and a limited number of sampled trips. The length frequencies were used as being representative in a much wider context. E.g., when a sampled length frequency was only available for quarter 3, it was assumed that it is representative for the whole year. This can introduce a serious bias as fish grow over the year and recruits are often entering the fishery in the third quarter. Therefore, the results have to be interpreted carefully and always in conjunction with information on the sampling coverage.

10 Greece

10.1 Methodology

Greece has a National Centralize Database (NCD) for storing all the data collected in the framework of the Data Collection Framework (DCF). The NCD is a subsystem from the integrated fisheries information system (with acronym IMAS-Fish) that is hosted in the Hellenic Centre for Marine Research (HCMR) (Kavadas et al., 2013). Confidential data from Vessel Monitoring System (VMS) and Electronic Reporting System (ERS) are provided by the Ministry of Shipping and Island Policy and the Ministry of Rural Development and Food respectively in order to support the effort and landings estimations of the part of the professional fishing fleet that is obligated to be equipped with a control positioning system. The VMS data are used to estimate the fishing effort from vessels with total length ≥ 12 m (all trawlers and purse seiners are included), the boatseines that can be operate according to Commission Implementing Regulation (EU) 2017/929 and the vessels having a specific fishing license (large pelagic fishing). For this part of the fishing fleet, the spatial fishing effort is estimated by a predefine cell size (usually 2x2 Km) and by GFCM statistical rectangle for the FDI datacall, using a methodology proposed by Kavadas et al. 2014 and Maina et al., 2016. For the rest small scale fishing vessels (who are the majority of the Greek fishing fleet) effort data are

collected at the port on monthly basis from a representative number of vessels. Specific routines (written in R) have been constructed in HCMR to support the analysis, raising and estimation of effort from small scale fishing vessels by major area (according to the Greek DCF sampling scheme, the country has been divided in 12 major areas) and GSA. Concerning the estimation of landings, ERS data are used for trawlers, purse seiners, boatseines and large pelagic fishery given by GFCM statistical rectangle for the FDI datacall. For the rest small scale fishing vessels landings data are collected at the port on monthly basis from a representative number of vessels. Specific routines (written in R) have been constructed in HCMR to support the analysis, raising and estimation of the landings from small scale fishing vessels by major area and GSA. Information related to the fleet capacity is provided by the Ministry of Shipping and Island Policy or is downloaded from the official European fleet register website (<http://ec.europa.eu/fisheries/fleet>).

Sales data also are included in the database collected monthly by questionnaires in the port (from small scale fishing vessels) or those that are reported in the ERS by vessel and trip from vessels with LOA ≥ 12 m. Information on gear and statistical GFCM rectangle are from the logbooks. If there are less than three vessels in the aggregation level in tables A, G, H and I, they are marked as confidential.

The length and age distributions were processed to support both MED&BS and FDI datacalls using the at-sea observer's data and the biological sampling data collected in the framework of DCF. Domains have been defined, corresponding to the DCF and are inserted in Table A. Discards Ratio and Discards are estimated based on the at-sea sampling data. In some cases there are length measurements for species (table D and F), where there is no age reading (table C and E).

Landings below minimum conservation reference size (BMS landings) are not reported in the ERS but this information is provided in Table F (length frequency distribution) and added to the total landings.

Refusal rates from the at-sea observers have not been reported.

10.2 Data availability

FDI data for the year 2015 is provided only for the period October to December because of abnormal execution of DCF, so their use makes no sense. Only effort data related to the operation of trawlers and purse seiners cover all the year and can be considered for analysis purposes. FDI data for the year 2016 is provided for the period March to December because of abnormal execution of DCF, except landings and effort information for trawlers and purse seiners is given for all months. Data for 2017 are missing because the DCF was executed in the last quarter of the year covering a small part of the Greece. Nevertheless, effort and landings data for trawlers and purse seiners is provided for all months. Related to 2018, complete data sets are provided due to the normal execution of DCF. The Transversal data (VMS, logbooks, sales notes, fleet register) are provided by the Ministry of Shipping and Island Policy and the Ministry of Rural Development and Food Agency. Related to small scale fisheries, data are collected in the framework of DCF.

10.3 Coverage

Data checks

Provided data covers the Greek commercial fishing fleet which operates in GSA-20 (Eastern Ionian Sea), GSA-22 (Aegean Sea) and GSA-23 (Cretan Sea). The given information is related to trawlers, purse seiners and artisanal boats using trammel nets, gillnets, bottom longlines, pots and traps for the periods 2015 (October to December),

2016 (April to December) and 2018 (January to December). For boat seiners, the available information cover the periods October to December 2017 (on 1st October 2017 the boat seines started to operate according to the Commission Implementing Regulation (EU) 2017/929) giving spatial effort data (based on VMS data) and spatial landing data (based on ERS data) as well as for the year 2018 providing except spatial effort and spatial landings also landing length.

Confidentiality

If there are less than three vessels in the aggregation level in tables A, G, H and I, they are marked as confidential.

Comparison with Eurostat data.

In term of the fishing fleet, no significant differences exists between EUROSTAT and FDI data call. In terms of landings, no comparison can be performed due to irregular execution of DCF in 2015 and 2017 while for 2016, no data is provided by EUROSTAT.

10.4 Problems encountered

The problems encountered are related to irregular execution of DCF for years 2015 and 2017.

10.5 Other comments if relevant

No other comments.

References

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11 Ireland

11.1 Methodology

The Irish data submission is based on the following sources:

1. Logbook (vessels >10m) and Sales Notes (vessels <=10m) data (wanted catch, value, spatial effort and landings etc.)
2. Fleet register (Number of vessels, Fleet determination etc.)
3. Scientific observer data (discards, length and age distributions)

Estimates of discards were raised from the national sampling scheme, for which the strata are defined within the variable "Domain_discards". No estimates of discards were

provided for unsampled strata, and were marked as "NK". Only estimated values of discards were provided in table A. Estimates of discards were raised to the fleet level for each year, quarter, gear, area, and species. Fishing effort (hours fished) was used for all species as the auxiliary variable. The discard rate (kg/h) and age composition (where applicable) were then applied across the remaining strata (vessel_length; mesh, fishery; specon_tech) based on the effort (fishing hours) in each of these strata. Discards that were observed to be zero are included. Age and length distributions for landings were estimated from market sampling and the at sea sampling programme.

Irish biological landings information is not recorded with mesh size information; this was re-constructed by linking to the logbooks database, where possible. The age composition of the landings was estimated for each quarter by gear, area and species (any further disaggregation would violate the sampling design). The age compositions were then assigned to each of the remaining strata (vessel_length; mesh, fishery; specon_tech) based on the reported landings in each of these strata.

Effort was calculated using the fecR package. Refusal rates could not be provided this year as Ireland is currently in the process of implementing a new sampling plan and refusal rate system. This system was implemented at the end of 2017 and will be ready to provide data for 2019 FDI datacall.

11.2 Data availability

Logbook and sales not information was finalised and deemed complete in April 2019. The landings

And effort information for vessels >10m is derived from logbooks, whereas for vessels it is derived from sales notes. The effort information which is estimated from sales notes is done so by applying very broad assumptions for certain species/gears, after which there are a number of trips of vessels under 10m for which we cannot make these assumptions and therefore do not estimate the effort.

11.3 Coverage

Data was provided for all three years requested (2015 – 2018) for all tables before the deadlines.

- **Tableau checks:** Overall there was good consistency between table A and tables containing biological samples (C,D,E &F). There were no domain names in the biological tables that could not be matched to métiers in table A. There were some minor SOP issues with table C. These issues related to a very small proportion of the discards <1% and are related to few individual trips in which the weight of discards was not entered. They could not be fixed within the time frame of the meeting but are not considered a major issues as they relate to a very small volume of discards.

The tableaux checks also identified a discrepancy between Domain Landings weight (Totwghtlandg) in three tables (A, E and F) of JAX, horse mackerel, in one strata (approx. 500 tonnes difference). This difference a result of the mismatch in naming conventions used by legislation, the data call, the FAO short code, and fishers. This topic will be discussed in more detail under ToR 2.

- **Eurostat data comparison:** There is generally good consistency between Ireland's FDI submission and the Eurostat extraction. The only major difference is in the vessel numbers, however the Eurostat list works on vessel numbers that include inactive vessels.

- **Confidentiality:** Ireland considers that any aggregated operation that contains less than three vessels should be marked as confidential. There is a need for the Commission to clarify the legal requirements and methodology which should be applied in this section.

11.4 Problems encountered

No problems were encountered during the data collection or submission process.

11.5 Other comments if relevant

As with last year the data call was very limited in description of variables and context, as a result there was too much room to interpret, and this could lead to member state specific inconsistencies. Time should be given during the working group to address these issues.

12 Italy

12.1 Methodology

Capacity, effort and landings data are produced considering all the available information at the most disaggregated level:

- Fishing fleet register. The fishing technique actually used by each vessel is checked on a quarterly basis. This activity includes: field surveys through the data collectors network used in sample surveys, cross-checking with the information reported in logbooks, VMS data, comparison with previous fleet structures.
- Logbooks and landing declarations. Basic and regular checks are implemented on the gear used and on the species caught and landed. These declarative forms are the unique source of information for dredgers, purse seiners, bigger trawlers and vessels operating outside the Mediterranean.
- Sales notes data. In addition to fundamental checks on the average price for the species at the highest level of geographical and technical detail, this source of information is also used to validate the data on the quantities landed by species.
- VMS data. The information on the geo localization covers 95% of the fleet => 15 meters (1600 boats). In addition to providing information about of the effort distribution, they are used as a control tool for the activity through crossing with the logbook declarations and the sample survey. They can also provide information on the gear used, therefore on the metier.
- Sample survey. It is the prevalent source of information for the fleet < 10 meters; sales notes data are also used to cross-checks sample data. The sample survey is also applied to the fleet > 10 m to integrate the information derived from the Control Regulation if needed.

Specific procedures are applied to verify the information obtained from the different sources, relating to a same variable (gears, days, catch and price for species), with the goal of identifying and validating the actual figures and get an exhaustive picture of the fishery for scientific purposes.

Effort calculations are based on the definitions reported in the EUMAP, ie.:

- days at sea: any continuous period of 24 hours (or part thereof) during which a vessel is present within an area and absent from port;
- fishing days: any calendar day at sea in which a fishing operation takes place.

Therefore, based on these definitions, the day at sea is relative to the vessel and includes the time of navigation, while the fishing day is relative to the time of use of a

fishing gear. Translated in terms of data collection, days at sea can be associated with the fleet segment (group of vessels), while fishing days can be associated with the gear (or by métier). The FDI and the MED data call requires effort (days at sea and fishing days) both by segment and by gear. In order to provide data at this level of aggregation, Italy is following the methodologies proposed by the Workshops on Transversal Variables of Zagreb (2015) and Nicosia (2016) that proposed a harmonized approach to associate days at sea to the gear starting from the information at fleet segment level.

Biological data on discards, length and age distributions are collected through the protocols and the statistical procedures reported in the Italian Work Plan.

In particular, since 2010, RCGMED&BS created a regional view of the discard sampling programme in order to optimize the spatial, time and métiers coverage. RCGMED&BS prepared a complete list of métiers important to sample and provide scientific justification for not sampling certain métiers for discards (see RCGMED&BS 2010 - table 7 page 34, RCM Med&BS 2016- annex IX). The discard estimates presented in the FDI data call reflects this regional sampling agreement. It has also to be considered that the discard sampling program is aimed at providing basic data for stock assessment purpose and not for monitoring LO implementation. Several species under LO (annex III of RegMED) are caught by artisanal fleets for which there is no obligation to implement a discard monitoring program according to the Italian DCF WP.

In table A, the discards are partitioned by landings within the same *year, quarter, vessel length group, métier, discards domain, sub region and species*. An ad hoc routine in R has been developed. This routine splits the discard volume starting from the estimates reported in table D according to the estimated proportions on production per quarter, métier and fleet segment as reported in table A. The splitting procedure can be summarized into 2 steps:

1. the proportions of the production by métier and vessels length are estimated;
2. the proportions at point 1 are applied to the discard volume reported in the table D at métier level , according to "DOMAIN_DISCARDS".

The splitting is based on certain assumptions and was accomplished because the sampling scheme for biological sampling is not stratified by fleet segment, but only by métier and quarter.

12.2 Data availability

All the data was finalized and available by the data call deadline.

12.3 Coverage

The Italian tables cover all the time series 2015-2018 and all the métiers.

The quality checks provided in the tableau does not highlight any incorrect data and/or inconsistencies among the data provided in the different tables requested by the data call.

Also the SOPs for table C MBS (comparison between Discards [tonnes] and the sum of products [tonnes] = no_age[number in thousand]*mean_weight [kg]) are not to be considered as an issue because the differences reported in the SOPs are due to the rounding of the three-digit MEAN_WEIGHT.

Comparison with Eurostat data

There is no difference between Eurostat data and FDI data call data.

Confidentiality

No confidentiality issue.

12.4 Problems encountered

No problems encountered in the preparation of the file.

12.5 Other comments if relevant

Table A takes into account different degrees of aggregation compared to Tables C and D, thus it's not possible to match each single record of table A with a "discard" estimation as reported in Tables C & D. Indeed, in tables C & D the VESSEL_LENGTH and the FISHING_TECH categories are not taken into account because the biological sampling is implemented by métier (as reported in the EUMAP, in the WPs and in RCGMed&BS reports). Extrapolating the discard to the fleet segment involves assumptions that can generate bias. In order to avoid to receive a data issue, in the 2019 FDI data call, an ad hoc routine in R has been developed and applied by the institutes involved in the Italian program of biological sampling. This routine simply splits the discard volume starting from the estimates reported in table D according to the estimated proportions on production per quarter, métier and fleet segment as reported in table A. This implies the assumption that the discard volume is distributed among the vessels of different LOAs, though belonging to the same métier, as the landing, although there is no evidence that this assumption is met from the observed data.

This routine has been applied only to avoid receiving again a data compliance issue, but the structure of the FDI data call should be adjusted because the information on discard provided in table A is not derived from specific observed data.

13 Latvia

13.1 Methodology

All data on fishing operations e.g. gear, mesh size, area etc. are obtained from official logbooks, which are stored in Integrated Control and Information System for Latvian fisheries (ICIS). These logbooks cover all the areas where Latvian fishing fleet is operating including the small scale fleet. Information about fleet capacity is synchronised with Latvian Fleet register and is stored in ICIS. Central Statistical Bureau of Latvia (CSB) provides annual average prices per species, based on questionnaire "1-Fishery", which all fishing companies are obliged to fill in.

For small scale fleet effort was calculated as one day at sea is equal to one fishing day, because information in coastal logbooks is provided on daily basis.

Information about discards are based on fishery observer estimations. This category is the part of the catch, which is thrown overboard into the sea.

During the work in the sea on the board of ship or boat in small scale fishery observer is collecting information from each fishery act by species and catch categories (Landings, BMS, Discards).

All discarded fishes by species are measured and weighted, except in the case when the discard is very large, in which case a subsample weight is taken. All sub-samples are weighted. The sorting of fish into catch categories is made by the fishers.

All available discards data are calculated for each species, by quarters, Sub-divisions, gear and fleet segment.

Discard rates are calculated by formula:

$$\text{Discard rate trip,species} = \text{Discard (kg) trip,species} / \text{Landing (kg) trip,species}$$

After obtaining Discard rate, discard rate is applied to landing of species by quarter, SD, gear and fleet segment.

$$\text{Discard (ton) Time,SD,Fleet segment,Species} = \text{Discard rate Time,SD,Fleet segment,Species} \times \text{Landing (ton) Time,SD,Fleet segment,Species}$$

No thresholds were applied.

R script have been used for effort calculation in case of offshore fishery.

In period of 2015-2018 no refusals to take observers on board were recorded.

13.2 Data availability

Latvian data were provided on time and in accordance with required format. Average prices per species for 2018 were used from 2017. Prices for 2018 could be available in autumn of 2019.

13.3 Coverage

Quality checks in Tableau showed that in 2017 and 2018 for vessel length segment VL40XX two different fishing techniques were used instead of one, that was happened due to fishing gear changes during the year. In the next year, this mistake will be corrected.

In table J Capacity information about inactive vessels was not provided. It is planned to submit this information in the next year.

Provided data covers all Latvian commercial fishing fleet, which operates in Baltic Sea, CECAF and NEAFC areas. Information about recreational fishery in Baltic Sea were not provided. Due to confidentiality, information about distant fleet is provided as confidential all other information is provided as not confidential. Data were calculated and provided in the same way as for economic data call.

Comparison with Eurostat data did not show big difference. As information about recreational fishery was not provided, there are small differences in landings values for fresh water species between the two datasets.

13.4 Problems encountered

No problems were encountered related to data collection or related to data submission.

13.5 Other comments if relevant

No other comments.

14 Lithuania

14.1 Methodology

Data collected

For all fleet segments by regions the transversal variables is deriving from database system FDIS, which contains the primary data referred to Commission Regulation (EC) No 26/2004 of 30 December 2003 on the Community fishing fleet register in Annex I and Council Implementing Regulation (EC) No 404/2011 in Annex X. Community fishing vessels from 8 to 12 metres' length overall are obliged to keep a fishing logbook and submit landing declarations. Fishing vessels of 18 metres' length overall or more, the fishing logbook is in electronic form and the landing declarations are submitting electronically. The Lithuanian fleet does not consist of any active vessels with the length class of 12 to 18 meters.

Biological data is collected under the Lithuanian National Programme according to the sampling strategy.

Estimation procedures

For estimating discarded catches have been used two data sources: data collected by observers on board and sampling of releases. For flounder discards counted against total landings, for other species by number of voyages. The ratio of discards calculated for landings per trip and multiplied by the total landings per strata.

Data on landings for vessels less than 8 m length overall was derived from the combination of the monthly declarative forms which have been cross-checked with sales notes. Combination of information from sale notes and declarative form provide the key details on the species, presentation, location of landings, weight and value of fish being landed. To approach reliable and high quality of data Lithuania uses a "census" type of declarative form for vessel. Data derived from national logbook are completing by a company engaged in commercial fishing in the Baltic Sea coastal area. Small scale fleet has a daily activity and 1 Day at Sea assumed as equivalent to 1 Fishing Day, 1 Fishing trip and 24 hours. For the fishing technique (FISHING_TECH) defining has been applied the same rules as for the fleet economic data call.

For all fleet segments value is estimating based on prices derived from sales notes multiplying by weight from landing declarations.

Submitted refusal data set constitutes of the sampling frames based on metier by areas. Unfortunately, refusal rates at the Baltic Sea region are not available recently.

Spatial data was prepared using "0.5*1" resolution for the Lithuanian fleet in all operating areas. In cases of occurring any missing or incorrect fishing positions recorded in the logbooks fishing activities were identified using the VMS data.

Methodology for partition of discards from tables C-D to table A.

The discard applied to the landings at each stratum, by species, for each year, quarter, gear, area within a domain_discards. No estimates of discarded catch were provided for unsampled strata, and were marked as "NK". If the species doesn't have corresponding landings, the discards are distributed to the aggregation of table A based on effort. This means that there can be lines with discards but no landings.

No thresholds for submitting biological data were applied.

R script was used for calculations of days at sea and fishing days.

14.2 Data availability

Transversal data by 1 February and biological data by 1 April are available for previous year.

14.3 Coverage

2015-2018 period submitted data covers all areas requested in the data call and conforms to the requested aggregation, by quarter, area, gear and mesh sizes. Any meaningful data quality issues demanding correction and re-submission of data sets was raised during quality checks. Data set submissions complied with the required deadline dates. In respect of data check reports, four (TABLE_C_NAO_OFR_DISCARDS_AGE, TABLE_E_NAO_OFR_LANDINGS_AGE, TABLE_H_LANDINGS_BY_RECTANGLE, TABLE_I_EFFORT_BY_RECTANGLE) revised data sets were also resubmitted by the operational deadline. Any significant discrepancies have been noticed in the data checks of the Lithuanian data.

Comparison with Eurostat data

Between Eurostat and FDI data calls, some discrepancy in value and landings data might occur with regards to fishing trips which extended over two different years where the landing was presented in the final year. In that case, effort with catch and landed value were provided parcelling by two years for the FDI data call. As for the Eurostat data call, the submission is based on the landing or sales dates. Driver of the difference in vessels number is that for Eurostat the fleet is considered on a snapshot date, whereas FDI looks at the total fleet in a whole calendar year. Therefore comparing Eurostat and FDI vessels number like-with-like some small differences were revealed.

Publication of confidential data

Data that considered subject to confidentiality and were flagged in "CONFEDINTIAL" column allows statistical unit vessel to be identified, either directly or indirectly, thereby disclosing individual information. The confidential data can be used for EWG ToRs purposes. Aggregated and/or published data should be on the level, which does not allow any identification of the statistical unit.

14.4 Problems encountered

Information between vessels where observers are welcomed and vessels where observers are refused in the Baltic Sea region shall be improved as recently is it not available. In some cases, allocation of metier to trip or fishing operation was highlighted as issue. There are no general concepts on the target species (or target assemblage) as a definition criterion, nether clarification on target assemblage specification in case of efforts without landings. That could lead to inconsistency between Member States. However, there is intersessional between RCG meetings working group which is working on developing of guidance on target species referring to metier. No problems with data submission were encountered

14.5 Other comments if relevant

No other comments.

15 Malta – no information provided

16 Poland

16.1 Methodology

Official fisheries data of the Polish fleet from the period 2015-2018 were collected from the database administrated by the Ministry of Maritime Economy and Inland Navigation.

Polish fishery is located mainly in the Baltic Sea, therefore sampling effort is concentrated in this area, except one sampling trip per year in the Eastern Arctic. Additionally, Poland is a member of the multilateral agreement to cooperate in the biological data collection on pelagic fisheries in CECAF and SPRMFO waters.

Discards were estimated from trips sampled at sea. Domains used to estimate discards result from the sampling plan applied. For the Baltic Sea the domains consist of quarter, FAO subdivision, gear type, target assemblage, mesh size range (one or more) and are used for all vessel length classes, species and commercial categories. For Eastern Arctic the domains consist of FAO division, gear type, target assemblage, mesh size range and are applied to whole year, all vessel length classes, species and commercial categories.

Fishing effort was calculated following the methodology agreed on DCF Transversal Workshops. The fecR package was not used directly because the input data has a higher level of spatial aggregation (national sub-polygons of the ICES rectangles in the Baltic

Sea). Therefore, the logic of the fecR calculation algorithm was re-implemented in the R environment.

For vessels with length of <10 m the information on the start and end of the trip is not registered. In that case, it is assumed that one fishing day is one fishing trip lasting 8 hours at sea.

Refusal rates were calculated as a number of refusals from vessel owners divided by the number of approaches where the contact was successfully made.

The total value of landings was calculated using an average annual price per species. An average annual exchange rate was used to provide the value in Euro.

Spatial data was prepared using "0.5*1" resolution for all areas. For FAO area 27 information on ICES rectangle was used to identify the coordinates. In the case of distant waters, the fishing location was identified using the VMS data.

Segmentation of the fishing fleet in terms of vessel length classes and fishing technique was carried out in the same way as in the economic data call.

16.2 Data availability

All the data was finalised and available before the data call deadline.

16.3 Coverage

General comments

The data analysis allows to state that all variables seem to be consistent across years. Very few issues have been identified and are described below.

Information on the value of fish landed by the fleet operating outside the Baltic Sea is not available. Additionally, for some minor species in the Baltic Sea the value is not available. There are also records in which the landing weight was so low that the value was rounded to zero.

Comparison with Eurostat data.

The comparison with Eurostat data did not show any significant differences. Unlike FDI data, the number of vessels in the Eurostat data also includes inactive vessels.

Publication of confidential data

In the period 2015-2018 Poland had 3-5 vessels fishing outside the Baltic Sea. Due to the national statistical law it was decided to mark the data about their activity as confidential to avoid the risk of identifying a single vessel.

16.4 Problems encountered

Problems related to data collection

At the beginning of 2017 a new sampling design was implemented in Poland. The major change was a move towards statistically sound sampling and random selection of sampling units. As a consequence the refusal rates were provided only for 2017 and 2018 as in the previous years the sampling design was based on the opportunistic selection of sampling units. Moreover, 2017 was a transitional period between old and new sampling design. Not all contacts to vessel owners were available and as a consequence, many ad-hoc expert trips were done.

Problems related to data submission

No problems with data submission were encountered.

16.5 Other comments if relevant

No other comments.

17 Portugal

17.1 Methodology

In general, Portugal uses 3 different data sources: fleet register, logbooks, and sales notes.

Transversal data are obtained from logbooks and sales notes taking into account the Control Regulation and the national Work Plan. This data are combined to get the more accurate information from both sources when available for the same vessel. Daily routines from established business rules are performed to detect and correct errors push from the data sources to the statistical database.

As Landings and Effort are requested at a metier level, Portugal developed a procedure that classifies each trip in a metier. The procedure is split into different methodologies concerning the characteristics of each vessel. For vessels, without logbook, it is used as a Data Integration software to apply all the conditions laid down in the algorithm based on Sales Notes and Fishing Permissions (licenses). Each condition similar set of data (landings/trip) is allocated to a metier. For vessels with electronic logbook, the methodology is based in SQL scripts and uses the information recorded in the Electronic Recording and Reporting System (ERS) reports, such as gear and reported catches for each haul in each Fishing Activity Report (FAR). The present version of ERS does not have the definition of TRIP connecting all the reports. The new version is in implementation tests and the new data model can, possibly, bring an improvement in data quality. The approach for FDI data call is based on the concept of TRIP. In that way, each trip is classified in terms of date, area, gears, metier, species composition, catch (kg), discards (kg) and catch value.

Concerning the spatial information requested, for vessels with logbook, it was used the coordinates reported on the FAR, at the haul level. In the case of vessels without logbooks (small scale fisheries - SSF), coordinates of the landing harbour were considered.

Value of landings

For vessels with logbooks, the value of landings is calculated multiplying the weight of landings by the average price determined for the species and fishing area. For SSF, the weight and value of landings are the ones that are recorded in Sales Notes. All vessels are obliged to sell at the auction market.

Discards estimation

Discards values on tables C and D are estimates based on biological sampling. In these cases, discards were provided only for the trawlers for 27.9.A area and for longliners in 27.10.A area.

Regarding discards estimates values for trawlers, these are the values reported to ICES for stocks assessment, based on data collected at the observers sampling program on-board of demersal fish and crustacean trawlers in area 27.9.A. Using the procedure to raise discards from haul to fleet level in the Portuguese trawl fisheries (Jardim and Fernandes, 2013), species with low frequency of occurrence or abundance in discards (i.e., with a large number of zeros in the data set) cannot be reliably estimated at fleet level. The frequency of occurrence and abundance of most species in discards of the Portuguese bottom trawl fleet was below 30%.

For the remaining sampled fleets in 27.9.A (GNS_GTR, LLS_DWS, PS_SPF, and TBB_MCD) discards estimation procedures are still being discussed/developed. The main difficulties for their conclusion are related to the multi-gear trips and the need to choose an adequate auxiliary variable (with consistent information from the population) to use in the raising procedures.

Consequently, annual trawl discards volumes and length frequencies at the fleet level are only estimated for some species and years. Landings by species for the metiers coded as OTB_CRU_>=55_0_0 and OTB_DEF_>=65_0_0 in Tables C and D were the results of aggregation of landings of more than one trawl metier reported in Table A, according to the table below. Discards estimates are reported for the same aggregated metiers, which are the groups covered by the sampling program.

Metiers from Table A - CATCH	Metiers in Tables C to E (with biological data)
OTB_CRU_55-59_0_0	OTB_CRU_>=55_0_0
OTB_CRU_>=70_0_0	
OTB_DEF_0_0_0	OTB_DEF_>=65_0_0
OTB_DEF_65-69_0_0	
OTB_DEF_>=70_0_0	

In what concerns to discards information provided in Table A, discard values were based on the annual discard estimates for each sampled fleet (OTB_DEF and OTB_CRU), proportionally distributed according to the landings at metier/quarter/vessel_length. This is not the best procedure because OTB discards estimates were raised using effort as auxiliary variable and, for this purpose, we are assuming that landings and discards are correlated, which may not be true.

Landings and Discards Age and Length data

Age data (Tables C and E) were provided only for the species that have age information, which are horse mackerel (HOM), mackerel (MAC), sardine (PIL) and blue-whiting (WHB), in area 27.9.A. Table C contains age information only for WHB, because this is the only aged species present in discards.

Length data (Tables D and F) are provided for all species assessed by ICES and metiers sampled in areas 27.1.B, 27.2.A, 27.2.B (onboard sampling) and 27.9.A (market and onboard sampling). Table D contains length data for hake and blue-whiting, species in which frequencies of occurrence in discards is higher than 30%, as previously referred. In each DOMAIN_LANDINGS, TOTWGHTLANDG weight was converted in number (dividing by the MEAN_WEIGHT_LANDG) and then distributed by age and/or length, using the proportions of each age or length class in the total distribution. The same procedure was applied for the discards. Refusal rates were recorded regularly since 2017.

Effort

Logbook information is used to calculate effort (fishing days) by fishing area using SQL scripts. This is a powerful tool for that aim, however, in situations where the trip is not well constructed in the logbook, the estimated effort is not correct. For SSF, it is assumed that one Sales Note corresponds to one trip and one fishing day.

17.2 Data availability

Portugal has submitted all data before the deadline. It should be remarked that the final output for JRC database submission depends on different institutions involved (including

Outermost Regions). This process is very time-consuming once not all data handlers has the same level of access to the data needed neither the same skills. In addition to these difficulties, there is also the fact that the Portuguese fleet is extremely extensive and diverse operating in a spread number of FAO areas. Due the fact that the data check tool has not been available this year, the proximity of the deadline to the holiday period and the disposal of data check reports during the holiday period and didn't cover all the issues (duplications and some inconsistencies between tables) it was not possible to correct inconsistencies in time. That is why Portugal needed to upload data during the meeting.

17.3 Coverage

Portugal went through all the tableau pages and analysed the quality checks to evaluate potential incorrect data and/or inconsistencies between the data provided. Almost all issues were resolved during the meeting, and only minor issues, not exactly errors, remained. The extracting data scripts were reviewed to correct incompatibilities between tables and other errors encountered.

The data submitted to FDI data call are consistent with the Eurostat data. The difference observed in terms of the total number of vessels is because the total fleet (including inactive vessels) is reported to Eurostat while for the FDI only active vessels are considered. Concerning to the weight of landings, the values reported to FDI are lower than the reported to Eurostat once the FDI concerns to landing weight and the Eurostat to live weight.

Publication of confidential data

The field introduced into tables A, G, H and I to flag confidential data was with the proposal of reflect the MS approval in providing the access and handling of detailed data to EWG members and JRC IT team.

All the data that relate to less than 3 vessels were considered Confidential.

17.4 Problems encountered

A large amount of data at a very disaggregation level, plus the changes from year to year and weak guidelines turns this data call into the most difficult, time-consuming and with the lower rate of confidence in the match between the request and what is delivered. This is a big burden for MS and is not clear if all the information requested is needed.

Effort

For effort calculation, logbook information is used to determinate fishing and days at sea using SQL scripts. The logbook is a powerful data source for effort estimation; however, in situations where trips are not well finished in the logbook, the effort estimates are not correct since it is not possible to determine the end of each trip.

The number of fishing days is difficult to estimate for SSF once there are no logbooks for vessels < 10m LOA. A common approach is used to estimate the fishing days from the sales notes, assuming that 1 sale note corresponds to 1 fishing day. Albeit this common approach, in the Azores Autonomous Region, a different pattern among fleet segments is observed as the number of fishing days per sale note is different.

Problems related to data submission

The validation of "EEZ-indicator and Sub-region fields" was not available on the upload checks since the beginning of the opening of the upload facilities. The introduction of this check was very useful for the MS that allowed us to perform some corrections and

retyping the SQL scripts to extract the correct combinations of codes. However, verification of this data combination was available too late and it was not possible to correct the data in time.

17.5 Other comments if relevant

Since the data providers from the outermost regions are different from the mainland, it would be very useful if data check tool includes Geo Indicator on the filter. Portuguese Experts consider that is very important some kind of workshop within the data providers, between the launch of the request and the submission deadline. This workshop doesn't have to be face-to-face, Skype is enough. This could be a place to data providers to ask for clarifications, to change methodologies, best practices to extract data in order to provide the best and on time data to the EWG.

18 Romania – no information provided

19 Slovenia – no information provided

20 The Netherlands

20.1 Methodology

Landings and effort information is based on official logbook data, provided by the RVO, the executive body of the Dutch Ministry of Economic Affairs and Climate Policy. Wageningen Marine Research provided biological data on discards, length and age distributions have been processed to output to both ICES data calls and the FDI data call and is based on sampling data from at-sea and market sampling programs conducted under the Data Collection Framework (DCF). Biological data are integrated with the official recording on landings and effort. Discards are estimated based on the at-sea sampling data. For species that have corresponding landings within the same quarter, vessel length group, metier, discards domain and sub region, the discards are distributed to the aggregation of table A based on landings. In cases, monitoring programmes not provide discard information, because there was no sampling coverage, a "NK" (not known) was applied.

In some cases there are length measurements for species (table D and F), where there is no age reading (table C and E).

Effort, days at sea, are calculated based on the period between leaving and entering the port. Period is rounded by whole days. Number of fishing days are the number of unique fishing days within a fishing trip. For active fishing gear there can only be one fishing day by gear. For passive gear, a multiple gears, or gear units, can be applied during one day. For example, a vessels sets 3 different gillnets, this is counted as 3 fishing days.

20.2 Data availability

The data was finalised and available by the data call deadline. However, during the work group tables, A, C and D were adjusted and re-uploaded, because of increased insight on how to improve biological data integration, enabling to incorporated more discard information.

20.3 Coverage

The Netherlands provided fleet specific landing and effort data for the period 2015-2018. The data covers all areas in which the Dutch fleets are active and conform to the requested aggregation. There is no information on misreporting, although the reliability of the official discard records in the official logbook registration is believed to be

questionable and, therefore, not used. Discard estimates were provided for all species caught in fisheries sampled under the Dutch monitoring programme. Within this monitoring programme for discard/catch and biological data a study fleet is used, which sample catch data. The participating group of vessels is representative for the complete demersal Dutch fleet, on the aggregation level of metier, the combination of gear type, target assemblage and mesh size range. Pelagic, shrimp and passive gear (small scale) fisheries are monitored with an observer programme of which the sampling coverage is limited.

Publication of confidential data

Because aggregation levels are high, data were not marked as confidential. Therefore, for the submission of FDI data in 2018 no data was considered confidential in the Dutch data set.

20.4 Problems encountered

Problems related to data collection

For the monitoring on board commercial fishing vessels refusal rates, refuse to have an observer on board, should be recorded, table B. However, for the monitoring of demersal fisheries the Netherlands implement a study fleet. Participating fishers sample catch on a regular basis, also observer go on board to validate the sampling programme. Refusals are never encountered. Because of the high level of cooperation makes recording of refusal rate oblivious and are therefore not recorded.

For the monitoring of passive gear/small scale fisheries, attempts of setting up a system to record refusals rates failed in previous years. Main reasons were incomplete vessel lists and contact details of fishers.

Problems related to data call

Data was provided at the requested aggregations levels according to the data call by the RVO, WMR includes biological data and submits data in the JRC data portal. However, data provided by RVO did contain a lot of irregularities, e.g. mismatches, missing data (gaps), mistakes, etc., with the data call. Since WMR was obliged with the task of data submission, it had to report mistakes back to RVO or correct the mistakes. But, due to the number of irregularities and the available time window of data submission, one month, and the lack of capacity of WMR data experts, this was a demanding task and had an effect on the submitted data quality, which eventually resulted in data processing en resubmitting during the meeting.

20.5 Other comments if relevant

No other comments.

21 United Kingdom

21.1 Methodology

21.1.1 FDF vessel methodology

There was no consideration in the data call for how to denote those vessels that participated in the Fully Documented Fisheries (FDF) scheme. Discard estimates for FDF vessels are calculated separately from those vessels that would be in the same domain due to the difference in fishing behaviour. "_FDF" was appended to the end of the metier tag and in the domain names "_FDF" replaced the commercial category.

21.1.2 Domain name methodology

UK – Scotland

Target assemblage – As not all vessels within a sample domain will target the same assemblage a target assemblage code had to be entered that was most representative of that domain. Bottom trawlers using meshes $\geq 100\text{mm}$ were recorded as targeting DEF, bottom trawlers using meshes 70-99mm were recorded as targeting CRU and mid-water trawlers were recorded as targeting SPF.

Mesh size range – Representative mesh size range codes were applied. The mesh size range codes requested in the data call do not fit with the mesh ranges of the sampled strata. As such, three representative codes were used: 32D69, 70D99 and 100DXX.

Commercial category – As mentioned, where the domain covered FDF vessels, FDF replaced the commercial category field.

UK – England

The Domain name definition for landings and discards followed the way the estimations were performed. We tried to maintain the sampling programme stratification, however we post-stratified the data to account for differences, between ICES areas, and different fleets

21.1.3 Discards methodology

UK – Scotland - Scottish discard estimates were not initially applied to Table A as the sampling domain data are at a more aggregated level than the level of aggregation requested in Table A. As such, a method of apportioning the estimates would be required. There are concerns that the data could then be misinterpreted as a result of the apportioning method. It is unclear how the data will be made available through the data dissemination tool. Clarification on how the data will be disseminated could allow the application of discard estimates to Table A following an agreed apportioning method. For now the discard data in Tables C and D can be linked to Table A using the domain names and species.

The discard estimates in Table C and D were later applied to Table A by linking with the domain discards and species fields. The estimates were apportioned between the relevant rows scaled to the landed weight.

In Table C, where there is a discard estimate, but no corresponding age data these records were still entered in Table C with NK provided for any of the age information fields.

UK – England - D were estimated from the UK- England on-board sampling programme conducted under the DCF. The estimation (raising) was carried out according with the strata described by "Domain discards". If no estimate could be achieved from sampling, or a stratum was not sampled, no discards was provided. The discards estimates achieved for each stratum ("Domain discards") were then partitioned to the much more disaggregated format in table A. The partitioning was done proportionally to the landings for the domain species combination.

For each trip, numbers-at-length were raised to the haul, based on an estimated proportion of the total catch volume sampled, then to the trip, based on the proportion of sampled hauls and fished hauls. The length based data was converted to biomass, using length-weight relationships for each species collected during various scientific trawl surveys (Cefas, unpubl. data). Trip-raised estimates were summed for sampled vessels in each stratum (i.e. Domain) and then raised to total fleet using a ratio between the reported total fleet landings of stock and reported landings of stock by the sampled vessels. When no landings are reported, used effort (number of at sea in domain) to raise the unwanted data.

21.1.4 Length and age distributions

For the length and age distributions each UK country provided biological data individually based on its national data collections programme.

UK- England

Age and length distributions for the discards were estimated based on the UK- England on-board sampling programme. Length data was collected for all fish species and commercial molluscs and crustacean species. For data submission, a minimum number of fish sampled by strata (Domain) is applied. Only domains with 20 or more fish measured were submitted. Age distributions for the discards were provided to the following species: cod, haddock, megrims, lemon sole, plaice, sole and whiting.

Age and length distributions for the landings were estimated based on the UK- England on-shore sampling programme. Length data was provided for all commercial fish species and commercial molluscs and crustacean species. For data submission, a minimum number of fish sampled by strata (Domain) is applied. Only domains with 20 or more fish measured were submitted. Age distributions for the landings were provided to the following species: brill, cod, haddock, herring, megrims, lemon sole, ling, pollack, plaice, seabass, sole, turbot and whiting.

UK – Northern Ireland

For Cod, haddock and whiting Length frequencies from Northern Ireland (AFBI) fleet observer trips in specified fleet métiers are raised to the trip level, summed across trips during each year or by quarter, then raised to the annual number of trips per year in the NI fleet in 7.a to give raised annual LFDs for discards. An age-length key from discards trips is then applied to give annual discards by age class and metier.

For Nephrops in functional unit 15 the discards samples contain the heads of Nephrops tailed at-sea. Using a length-weight relationship, the live weight of Nephrops that would have been landed as tails only is calculated from the carapace lengths of the discarded heads. Discard estimates of fish species is estimated by summing the discard weight, by species, for all samples in a quarter and expressed as a ratio of the summed live weight of Nephrops in the discard samples (i.e. those represented as heads only in the samples). The reported live weight of Nephrops landed as tails only is then used to estimate the quantity of cod or haddock discarded using the cod or haddock:Nephrops ratio in the discard samples. The length frequency of cod in the discard samples is then raised to the fleet estimate. To provided international estimates this is raised to the by the ratio of Northern Irish Nephrops landings to international Nephrops landings. In years prior to the self-sampling scheme the ratio of numbers-at-age of discarded cod and haddock: Nephrops landings in the unsampled year is used to provide an estimate of discards. In years where sampling of other fisheries has occurred these are added to the international discard estimates of the Nephrops fleet.

21.1.5 Effort calculation methodology

The effort measures for all administrations comprising the UK were calculated using the method agreed at the transversal variables workshops. Table J was provided at an UK level as this table comes from the economic data call which is assessed at the UK level rather than the administration level.

21.1.6 Refusal rate methodology

Distinct sampling programmes are implemented by the administrations comprising the UK, as such separate refusal rate tables are submitted by each administration.

UK - Scotland: As best as was possible, the methodology used followed the guidance presented in the SGPIDS 2012 and 2013 reports. The SGPIDS reports did not necessarily cover the categorisation of all possible reasons for a trip not being carried out. Instead of having to reference a large report it would make more sense to provide a table of reasons and classifications. This would standardise the methodology and reduce inconsistency. One further comment concerns the use of this table, as it does not and cannot link directly to the biological sampling tables. Clarification as to why this table is needed and how it will be used is needed.

UK- England: As best as was possible, the methodology used followed the guidance presented in the SGPIDS 2012 and 2013 reports. Below we describe the calculations and rationale used for each variable in the table below:

REFUSAL_RATE	Includes direct and 'indirect refusals'. A count of all the industry non-responses divided by a count of all the selections in the year.
COVERAGE_RATE	Does not include off draw samples. A count of all the successful selections that resulted in a trip divided by a count of all the selections in the year.
NONRESPONSE_RATE	A count of all non-responses, non-contacts and offdraw selections divided by a count of all the selections in the year.
VESSELS_FLEET	~
TRIPS_FLEET	~
TRIPS_SAMPLED_ONBOARD	Value includes off draw samples
UNIQUE_VESSEL_SAMPLED	~
VESSELS_CONTACTED	Each vessel is only counted once. This figure does not include multiple contacts of the same vessel. Each vessel is only counted once. As the drawlists are re-created quarterly the same vessel may be contacted more than once in a year.
NOT_AVAILABLE	Each vessel is only counted once. This does not include all occurrences of and attempts at the same vessel. This will also include any vessel selected in sequence that was not approached for safety concerns.
NO_CONTACT_DETAILS	Each vessel is only counted once. This does not include multiple visits to the same vessel.
NO_ANSWER	This is a sum of all the vessel contacts across all quarters where there was no answer - if recorded.
OBSERVER_DECLINED	This is a sum of all the vessel contacts across all quarters where the observer then declined. This does not include where the observer declined to make contact.
INDUSTRY_DECLINED	This is a sum of all the vessel contacts across all quarters where the observer received a flat no. This does not include contacts where the observer was put off or the call was 'inconclusive' - an indirect refusal.
SUCCESSFUL_SAMPLE	Value includes off draw samples
TOT_SELECTIONS	Sum of all sequential selections.

21.2 Data availability

For all the UK countries, all tables were submitted on time in the first instance. Tables have been updated between the statutory submission date and during the first two days

of the meeting where significant errors were identified (e.g. inconsistent dates used to define quarters between landings and effort tables, inconsistent attribution of FDI markers to metiers in landings and effort tables).

21.3 Coverage

The UK gathers landings and effort data on two distinct databases, one Scottish and one for the rest of the UK (rUK). The data submitted here have their origins in the rUK database iFish2, which is synced with the Scottish database. The table below summarises the number of records uploaded for each data tables by the UK.

21.3.1.1 Data totals for the UK by year

Table/Variable	2015	2016	2017	2018
TABLE_A_discards	6,665	7,595	7,108	6,704
TABLE_A_totvallandg	57,206	61,602	54,951	48,738
TABLE_A_totwghtlandg	57,206	61,602	54,951	48,738
TABLE_B_refusal_rate	5	5	16	16
TABLE_C_age	979	1,006	971	1,000
TABLE_C_discards	1,128	1,176	1,072	1,119
TABLE_C_no_age	979	1,006	971	1,000
TABLE_C_no_samples	1,128	1,176	1,072	1,119
TABLE_D_discards	12,043	14,144	12,982	14,362
TABLE_D_length	12,043	14,144	12,982	14,362
TABLE_D_no_length	12,043	14,144	12,982	14,362
TABLE_D_no_samples	12,043	14,144	12,982	14,362
TABLE_E_age	5,852	6,052	5,849	5,310
TABLE_E_no_age	5,852	6,052	5,849	5,310
TABLE_E_no_samples	4,670	4,691	4,392	4,015
TABLE_F_length	28,005	29,091	27,776	24,914
TABLE_F_no_length	28,005	29,091	27,776	24,914
TABLE_F_no_samples	28,005	29,091	27,776	24,914
TABLE_G_gthrsea	6,090	6,283	6,141	5,646
TABLE_G_hrsea	6,090	6,283	6,141	5,646
TABLE_G_kwhrsea	6,090	6,283	6,141	5,646
TABLE_G_totfishdays	6,090	6,283	6,141	5,646
TABLE_G_totgtdaysatsea	6,090	6,283	6,141	5,646
TABLE_G_totgtfishdays	6,090	6,283	6,141	5,646
TABLE_G_totkwdaysatsea	6,090	6,283	6,141	5,646
TABLE_G_totkwfishdays	6,090	6,283	6,141	5,646
TABLE_G_totseadays	6,090	6,283	6,141	5,646
TABLE_G_totves	6,090	6,283	6,141	5,646
TABLE_H_totwghtlandg	271,013	287,399	264,895	244,845
TABLE_I_totfishdays	17,856	18,655	18,326	17,288
TABLE_J_avgage	52	51	58	56
TABLE_J_avgloa	52	51	58	56
TABLE_J_maxseadays	47	46	53	51
TABLE_J_totgt	52	51	58	56
TABLE_J_totkw	52	51	58	56
TABLE_J_tottrips	52	51	58	56
TABLE_J_totves	52	51	58	56

General comments

UK laboratories have created a shared workspace to coordinate the FDI data call and have worked from the MMO's UK wide iFish2 database to ensure consistency. This has

decreased the number of inconsistencies reported last year. More of the processes have been automated using R and SQL scripts to extract and process data into FDI format. This automation has reduced manual processing errors and made correcting processing errors more straightforward.

Comparison with Eurostat data

Overall the difference between Eurostat and FDI in 2015, 2016 and 2017 was relatively small (see table 19.3.1.2), with landed live weight being no more than 0.9% less on Eurostat than 2019's FDI submission. There was no consistent pattern to the differences by area or species. In 2015, the bulk of the differences were for shellfish landings, in 2016 it was demersal species (principally cod) and in 2017 a mix of shellfish and mackerel. Across all years the majority of differences were in FAO Area 27 (NE Atlantic), which is unsurprising given the pattern of activity of the UK fleet. It is important to note that the extracts of data for these two products were on different dates. Given the dynamic and live nature of our fisheries database exact matches between different snapshots in time are not to be expected. Quality control processes are undertaken regularly on UK databases and data are amended where errors are discovered. The fleet size differences were larger but still small overall varying between 1.7 and 1.8% greater vessel numbers on FDI than Eurostat (see table 19.3.1.3). Again the snapshot dates differ for these extracts. Additionally the methodology for Eurostat vessel counts differs to FDI. In Eurostat the number of registered vessels in the UK's commercial sea fishing fleet on a given date are counted. For FDI the number of vessels registered at any point in a given calendar year are counted. Given this difference in methodology the higher numbers for FDI than Eurostat is expected and unsurprising.

21.3.1.2 Data totals (landings, tonnes) for the UK by year

Year	FDI 2019	Eurostat	% Dif (vs. Eurostat)
2015	708,191	701,769	0.9%
2016	701,736	699,842	0.3%
2017	724,860	722,691	0.3%

21.3.1.3 Data totals (vessels) for the UK by year

Year	FDI 2019	Eurostat	% Dif (vs. Eurostat)
2015	6,347	6,232	1.8%
2016	6,347	6,235	1.8%
2017	6,304	6,199	1.7%

Publication of confidential data

The UK has not flagged any data in this call as confidential. We continue to monitor the content of data calls and will ensure any confidential data is flagged if requested in future data calls. The UK believes that a consistent definition of what constitutes confidential data should be provided as the benchmark used seems to differ significantly between member states.

The UK uses the principles set out in the GDPR regulation (EC 2016/679) to determine whether data are confidential in the sense that their disclosure would place personal data into the public domain in a way that violates the data subjects' rights under GDPR. As FDI data are aggregated and pseudo-anonymous we do not believe publication of this data (which lacks any vessel identifiers), even where the record covers only one vessel's activities, would disclose personal data in a harmful or potentially harmful way. Moreover, we believe that the public interest and benefit of making such data on the use

of shared natural resources public in a pseudo-anonymous way greatly outweighs any potential risks and that the processing and dissemination of such data is for a clearly defined and lawful purpose and furthers EU marine environmental sustainability and food security objectives.

21.4 Problems encountered

Consideration needs to be made as to how to present Nephrops discard information, as the currently requested level of aggregation in Table A means combining estimates from different functional units that are likely to have differing discard rates. The addition of a means to identify functional unit in Table A would allow Nephrops discard estimates to be presented by functional unit.

21.5 Other comments if relevant

No other comments.

22 SPAIN

Spain has provided 2015-2018 data for all the Spanish fisheries from all around the world (ICES, Mediterranean Sea, CECAF, Tuna fisheries and Long distant fisheries).

22.1 Methodology

Data Procedure:

- Landings weights (Table A) come from the cross of sales notes and logbooks data.
- Discard information comes from scientific observers on board programme by métier. Discard ratio (discard/landings) is multiplied by landings data in each row to obtain each discard data of that row according to the correspondent combination year-quarter-metier-species (Table A). New rows are added when there is discard estimation and there is no row because corresponding landings are zero.
- Once discard weights are in Table A (Table A is by quarter), Tables C, D, E and F are produced (these tables are by year) aggregating Table A data weights. Landings length distributions (Tables F NAO OFR and Table F MBS) and landings age data (Tables E NAO OFR and Table E MBS) are obtained from the biological sampling and there are raised to the weights. Discards length distributions (Table D NAO OFR and Table D MBS) and the samples to obtain the discard age distributions (Table C NAO OFR and Table C MBS) came from the observers programme and raised to the weights.
- Refusal rates of Table B come from observers programme. Refusal rates collection has been implemented from 2016 on, therefore no data prior to this year is available.
- Effort data (Table G and Table J) come from the cross of sales notes (vessel length <10 m) and logbooks data.
- Landing and effort by rectangle (Tables H and I) are obtained using the logbooks information.

22.2 Data availability

Data were not available by the data call deadline.

22.3 Coverage

General comments

In the comparison among domain landings from Table E and from Table F, it seems that there is a huge number of species which size is available, but not ages. This is due to the fact that ages are not requested for the respective stock assessment WGs (e.g. hake is

currently being evaluated by GADGET and SS3 disaggregated by lengths, instead of ages as was required by the former XSA).

Landings and effort by rectangle of vessel with length < 10 m could not be provided for this data call due to a problem with the database. The problem was resolved later and those data will be available for the next data call.

Landing and effort by rectangle (Table H and I) were not available for 2018 Mediterranean data because SUB_REGION was empty ("NK", no GSAs information), which prevents the use of spatial information (coordinates) that were upload.

Difference with other STECF data calls could not be done due to the delay of the upload of the data.

Comparison with Eurostat data.

Comparison with Eurostat data could not be done due to the delay of the upload of the data.

Publication of confidential data

All the Spanish data were non confidential.

22.4 Problems encountered

Problems related to data collection

The overstratified FDI data matrix does not match with the DCR data collection sampling strata, this produce artefacts as for example that discard data must be disaggregated by vessel length range producing possibly non representatives values.

Problems related to data submission

Data were not available by the data call deadline.

The delay in the provision of the data did not allow carry out all the data quality checks that would be advisable, therefore data quality was compromised.

De-minimis and survivability exemptions data could not been carefully analysed due to the data upload delay. This delay affected also to the comparison of the two tables with data collected and estimated with fills in.

22.5 Other comments if relevant

No other comments.

23 Sweden

23.1 Methodology

Landings, including BMS landings, were retrieved from logbooks for vessels ≥ 10 m LOA and from monthly coastal journals for vessels < 10 m LOA

Discards were estimated from the Swedish on-board sampling programme conducted under the DCF. The estimation (raising) was carried out according to the national sampling schemes within the strata described by "Domain discards". If no estimate could be achieved from sampling, or a stratum was not sampled, no discards were provided. The total discard estimates achieved for each stratum ("Domain discards") were then partitioned to the much more disaggregated format in the STECF data call. The partitioning was done proportionally to the variable used for the raising (landings of target species in the fishery or fishing hours, depending on the fishery). Proportion of landings of the same species was not used for the partitioning of discards unless the species was a target species. Age distributions for landings were estimated from market

sampling data. Age distribution data for discards were collected from the Swedish on-board sampling programme. Length distributions for landings of cod (including BMS landings) and witch flounder were estimated from market sampling data. Length distribution data for other species provided were collected in the Swedish on-board sampling programme.

Effort was calculated using the fecR package.

23.2 Data availability

Data was provided by the data call deadline.

23.3 Coverage

Landings data was provided for all species 2015-2018.

Discard estimates were provided for all species caught in fisheries sampled under the Swedish on-board sampling programme 2015-2018.

Age distribution data for landings was provided for cod, witch flounder, flounder, herring and sprat. Age distribution data for discards was provided for cod, witch flounder, flounder and plaice.

Length distribution data was provided for all fish species sampled under the Swedish on-board sampling programme that met the following criteria:

- 1) The species was encountered in at least two trips in the stratum
- 2) A minimum of 20 individuals were measured in the stratum

Effort was provided for all vessels in the Swedish fleet 2015-2018.

General comments

In the 2019 FDI data call BMS landings were requested as part of the "Landings" fraction and not "Unwanted catch" (as was the case previous year). BMS landings are rarely, or never, encountered in many sampling programmes and therefore often lack biological information. In order to still be able to provide biological information for landings >MCRS, even if the BMS fraction of the landings could not be sampled, landings >MCRS and BMS landings were given different "Domain landings" and biological information was only provided for the fraction >MCRS. BMS landings of cod could only be sampled for biological information for fisheries in the Baltic Sea since no BMS landings were available for sampling in other areas.

In 2015 the number of on-board sampling trips achieved in the Baltic Sea was not sufficient for estimation of discards due to very high refusals from the fishery (see "Problems encountered").

In the Swedish on-board sampling programme many species are encountered rarely and/or in very small numbers. No length distribution data has been provided for species for which the sampled number of individuals was considered insufficient for estimation (see above).

Some small landings in Table A have a corresponding value of zero for days at sea and fishing days in Table G (effort). This is a rounding issue; in those cases the vessel used more than one gear/metier/area in one day. The fishing day was then split between the different gears/areas. Since days at sea and fishing days had to be provided in whole days, sometimes they got rounded to zero.

Comparison with Eurostat data

Differences between landings data provided to Eurostat and landings data provided to FDI are likely due to the fact that different data sources have been used. Landings provided to Eurostat are retrieved from landing declarations, while landings data provided to FDI are retrieved from logbooks. The reason for logbooks being used for the FDI data call is that the Swedish logbooks contains much more detailed information than the landing declarations. Since Sweden has an extended logbook, information on catches, gears, geographical information, etc. is reported by fishing operation in the logbooks, which allows for a data compilation with as few assumptions as possible. However, in some cases the landings between the data sources differ, especially for pelagic species where the species composition of the catch is estimated in the logbook before landing. Some of the differences are however due to different FAO species codes being used. This is likely the case when a species is missing completely in one of the compared sources (For example, anglerfish was submitted with the FAO code "ANF" (*Lophidae*) to Eurostat and "MON" (*Lophius piscatorius*) to FDI).

Differences between number of vessels provided to Eurostat and the FDI are explained by the fact that only active vessels are included in the data submitted to FDI.

Publication of confidential data

For the submission of FDI data in 2019 no data was considered confidential in the Swedish data set.

23.4 Problems encountered

Problems related to data collection

In 2015 the Swedish on-board sampling programme failed to collect sufficient discards data in the Baltic Sea. When the landing obligation was introduced in the Baltic, fishermen refused to take observers and no Swedish discard data could be collected. To support sampling of on-board data, Swedish authorities introduced a new system in late 2016 which made it mandatory for vessels to accept observers.

23.5 Other comments if relevant

No other comments.

Annex 3 - Data associated with anticipated exemptions aggregated at species and sub region level

Table 1. Overall landings and anticipated exemptions associated with species and Sub Regions reported to FDI for North Sea

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ARG	27.3.A.20		JR-xx.2019 Art.10.d	0.0	0.0		0	
ARG	27.3.A.20 Total	-		0.0	0.0		0	
ARG Total		10		0.0	0.0		0	
COD	27.3.A.20		JR-xx.2019 Art.5	1.5	11.6	98%	12	100%
COD	27.3.A.20		JR-xx.2019 Art.10.c	0.1	4.1	100%	4	100%
COD	27.3.A.20		JR-xx.2019 Art.10.d	1.1	0.1	100%	0	100%
COD	27.3.A.20 Total	5,059		2.7	15.8	99%	16	100%
COD	27.3.A.21		JR-xx.2019 Art.5	0.0	n.a.	n.a.	n.a.	n.a.
COD	27.3.A.21		JR-xx.2019 Art.10.c	0.1	5.2	100%	5	100%
COD	27.3.A.21 Total	208		0.1	5.2	97%	5	97%
COD	27.4.A		JR-xx.2019 Art.5	4.6	n.a.	n.a.	n.a.	n.a.
COD	27.4.A		JR-xx.2019 Art.10.f	69.2	1372.1	79%	1372	86%
COD	27.4.A Total	27,299		73.8	1372.1	74%	1372	81%
COD	27.4.B		JR-xx.2019 Art.5	30.2	n.a.	n.a.	n.a.	n.a.
COD	27.4.B		JR-xx.2019 Art.10.f	117.0	71.6	21%	74	43%
COD	27.4.B Total	3,130		147.1	71.6	17%	74	34%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
COD	27.4.C		JR-xx.2019 Art.5	0.1	n.a.	n.a.	n.a.	n.a.
COD	27.4.C		JR-xx.2019 Art.10.e	40.6	3.6	8%	13	11%
COD	27.4.C Total	197		40.8	3.6	8%	13	11%
COD Total		46,806		264.5	1468.2	32%	1480	44%
HAD	27.3.A.20		JR-xx.2019 Art.10.c	0.0	0.5	100%	1	100%
HAD	27.3.A.20		JR-xx.2019 Art.10.d	0.0	0.5	100%	1	100%
HAD	27.3.A.20 Total	717		0.0	1.0	100%	1	100%
HAD	27.3.A.21		JR-xx.2019 Art.10.c	0.0	0.0	100%	0	100%
HAD	27.3.A.21 Total	24		0.0	0.0	100%	0	100%
HAD	27.4.A		JR-xx.2019 Art.5	0.6	n.a.	n.a.	n.a.	n.a.
HAD	27.4.A Total	26,350		0.6	n.a.	n.a.	n.a.	n.a.
HAD	27.4.B		JR-xx.2019 Art.5	0.0	n.a.	n.a.	n.a.	n.a.
HAD	27.4.B Total	1,663		0.0	n.a.	n.a.	n.a.	n.a.
HAD Total		29,240		0.7	1.0	7%	1	7%
HER	27.3.A.20		JR-xx.2019 Art.10.d	0.0	2.1		2	
HER	27.3.A.20 Total	12,359		0.0	2.1		2	
HER	27.4.B		2018/189 Article 3	839.8	n.a.	n.a.	n.a.	n.a.
HER	27.4.B Total	96,818		839.8	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HER	27.4.C		2018/189 Article 3	15.3	n.a.	n.a.	n.a.	n.a.
HER	27.4.C Total	2,270		15.3	n.a.	n.a.	n.a.	n.a.
HER Total		444,162		855.1	2.1	0%	2	0%
HKE	27.3.A.20		JR-xx.2019 Art.10.c	0.1	4.2	100%	4	100%
HKE	27.3.A.20 Total	639		0.1	4.2	100%	4	100%
HKE	27.3.A.21		JR-xx.2019 Art.10.c	0.0	1.7	100%	2	100%
HKE	27.3.A.21 Total	8		0.0	1.7	100%	2	100%
HKE Total		15,479		0.1	5.9	100%	6	100%
HOM	27.4.B		JR-xx.2019 Art.10.k	c	c	c	c	c
HOM	27.4.B		2018/189 Article 3	8.5	n.a.	n.a.	n.a.	n.a.
HOM	27.4.B Total	207		14.9	n.a.	n.a.	n.a.	n.a.
HOM	27.4.C		JR-xx.2019 Art.10.k	89.4	1.6	12%	2	21%
HOM	27.4.C Total	354		89.4	1.6	12%	2	21%
HOM Total		892		104.2	1.6	10%	2	18%
JAX	27.4.A		JR-xx.2019 Art.10.k	0.0	n.a.	n.a.	n.a.	n.a.
JAX	27.4.A Total	4		0.0	n.a.	n.a.	n.a.	n.a.
JAX	27.4.B		JR-xx.2019 Art.10.k	0.4	n.a.	n.a.	n.a.	n.a.
JAX	27.4.B Total			0.4	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		3						
JAX	27.4.C		JR-xx.2019 Art.10.k	0.8	n.a.	n.a.	n.a.	n.a.
JAX	27.4.C Total	840		0.8	n.a.	n.a.	n.a.	n.a.
JAX Total		847		1.2	n.a.	n.a.	n.a.	n.a.
JDP	27.4.C		JR-xx.2019 Art.9	c	c	c	c	c
JDP	27.4.C Total	0		c	c	c	c	c
JDP Total		0		c	c	c	c	c
LIN	27.4.A		JR-xx.2019 Art.10.n	814.7	34.4	25%	34	25%
LIN	27.4.A Total	5,246		814.7	34.4	25%	34	25%
LIN	27.4.B		JR-xx.2019 Art.10.n	0.4	n.a.	n.a.	n.a.	n.a.
LIN	27.4.B Total	99		0.4	n.a.	n.a.	n.a.	n.a.
LIN Total		5,499		815.1	34.4	25%	34	25%
MAC	27.4.A		JR-xx.2019 Art.10.l	0.3	2.0	18%	2	100%
MAC	27.4.A Total	185,247		0.3	2.0	18%	2	100%
MAC	27.4.B		JR-xx.2019 Art.10.l	524.6	1.6	0%	11	0%
MAC	27.4.B		2018/189 Article 3	45.7	n.a.	n.a.	0	1%
MAC	27.4.B Total	2,671		570.3	1.6	0%	11	0%
MAC	27.4.C		JR-xx.2019 Art.10.l	62.1	21.6	4%	22	64%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MAC	27.4.C Total	830		62.1	21.6	4%	22	64%
MAC Total		196,239		632.7	25.3	0%	34	7%
NEP	27.3.A.20		JR-xx.2019 Art.3.1.b	3608.8	711.5	100%	712	100%
NEP	27.3.A.20		JR-xx.2019 Art.3.1.a	289.9	17.9	100%	18	100%
NEP	27.3.A.20 Total	4,132		3898.7	729.4	100%	730	100%
NEP	27.3.A.21		JR-xx.2019 Art.3.1.b	2540.0	505.0	100%	505	100%
NEP	27.3.A.21		JR-xx.2019 Art.3.1.a	33.5	1.9	100%	2	100%
NEP	27.3.A.21 Total	2,903		2573.5	506.9	100%	507	100%
NEP	27.4.A		JR-xx.2019 Art.3.1.b	525.9	0.2	5%	0	5%
NEP	27.4.A		JR-xx.2019 Art.3.1.a	9.4	n.a.	n.a.	n.a.	n.a.
NEP	27.4.A Total	5,874		535.3	0.2	5%	0	5%
NEP	27.4.B		JR-xx.2019 Art.3.1.b	58.2	0.1	32%	0	32%
NEP	27.4.B		JR-xx.2019 Art.3.1.a	23.3	n.a.	n.a.	n.a.	n.a.
NEP	27.4.B Total	7,079		81.6	0.1	23%	0	23%
NEP Total		19,995		7089.0	1236.5	92%	1237	92%
NOP	27.3.A.20		JR-xx.2019 Art.10.m	0.0	4.1		4	
NOP	27.3.A.20		JR-xx.2019 Art.10.m	0.2	56.2	100%	56	100%
NOP	27.3.A.20		JR-xx.2019 Art.10.d	0.2	56.2	100%	56	100%
NOP	27.3.A.20 Total	160		0.5	116.4	100%	116	100%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
NOP	27.3.A.21		JR-xx.2019 Art.10.m	0.0	0.6		1	
NOP	27.3.A.21 Total	0		0.0	0.6		1	
NOP	27.4.A		JR-xx.2019 Art.10.m	0.0	0.1		0	
NOP	27.4.A		JR-xx.2019 Art.10.m	0.0	n.a.	n.a.	n.a.	n.a.
NOP	27.4.A Total	10,489		0.0	0.1	0%	0	0%
NOP	27.4.B		JR-xx.2019 Art.10.m	0.0	0.0		0	
NOP	27.4.B Total	4		0.0	0.0		0	
NOP	27.4.C		JR-xx.2019 Art.10.m	c	c	c	c	c
NOP	27.4.C Total	0		c	c	c	c	c
NOP Total		10,653		0.5	117.1	95%	117	95%
PLE	27.3.A.20		JR-xx.2019 Art.6.1.a	768.3	1.9	60%	2	60%
PLE	27.3.A.20		JR-xx.2019 Art.6.1.b	1561.8	294.1	99%	295	100%
PLE	27.3.A.20		JR-xx.2019 Art.6.1.c	688.4	75.5	95%	76	96%
PLE	27.3.A.20		JR-xx.2019 Art.10.d	0.1	0.2	100%	0	100%
PLE	27.3.A.20 Total	5,979		3018.5	371.6	88%	373	89%
PLE	27.3.A.21		JR-xx.2019 Art.6.1.a	77.2	n.a.	n.a.	n.a.	n.a.
PLE	27.3.A.21		JR-xx.2019 Art.6.1.b	c	c	c	c	c
PLE	27.3.A.21		JR-xx.2019 Art.6.1.c	8.0	0.0	2%	0	2%
PLE	27.3.A.21 Total	537		87.7	0.0	0%	0	0%
PLE	27.4.A		JR-xx.2019 Art.6.1.a	0.2	0.0	0%	0	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
PLE	27.4.A		JR-xx.2019 Art.6.1.b	130.0	2.1	40%	2	40%
PLE	27.4.A		JR-xx.2019 Art.6.1.c	3127.3	56.9	92%	65	98%
PLE	27.4.A		JR-xx.2019 Art.6.2.b	18.2	207.5	49%	208	100%
PLE	27.4.A		JR-xx.2019 Art.5	0.2	n.a.	n.a.	n.a.	n.a.
PLE	27.4.A Total	5,550		3275.9	266.5	89%	275	96%
PLE	27.4.B		JR-xx.2019 Art.6.1.a	3194.4	0.5	42%	0	42%
PLE	27.4.B		JR-xx.2019 Art.6.1.b	123.9	n.a.	n.a.	n.a.	n.a.
PLE	27.4.B		JR-xx.2019 Art.6.1.c	4001.1	16.0	73%	25	79%
PLE	27.4.B		JR-xx.2019 Art.6.2.b	2437.8	1953.3	5%	2837	48%
PLE	27.4.B		JR-xx.2019 Art.5	0.1	n.a.	n.a.	n.a.	n.a.
PLE	27.4.B Total	36,887		9757.3	1969.8	45%	2863	58%
PLE	27.4.C		JR-xx.2019 Art.6.1.a	59.5	n.a.	n.a.	n.a.	n.a.
PLE	27.4.C		JR-xx.2019 Art.6.1.b	2.2	n.a.	n.a.	n.a.	n.a.
PLE	27.4.C		JR-xx.2019 Art.6.1.c	0.5	0.0	0%	0	0%
PLE	27.4.C		JR-xx.2019 Art.6.2.b	40.9	202.9	4%	276	34%
PLE	27.4.C		JR-xx.2019 Art.5	0.2	n.a.	n.a.	n.a.	n.a.
PLE	27.4.C Total	7,537		103.2	202.9	1%	276	13%
PLE Total		56,490		16242.6	2810.9	61%	3787	71%
POK	27.3.A.20		JR-xx.2019 Art.5	0.0	0.5		0	
POK	27.3.A.20		JR-xx.2019 Art.10.c	0.0	0.1	100%	0	100%
POK	27.3.A.20		JR-xx.2019 Art.10.d	0.5	0.1	100%	0	100%
POK	27.3.A.20 Total	2,944		0.5	0.7	100%	1	100%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
POK	27.3.A.21		JR-xx.2019 Art.10.c	0.0	0.1	100%	0	100%
POK	27.3.A.21 Total	4		0.0	0.1	100%	0	100%
POK	27.4.A		JR-xx.2019 Art.5	2.1	n.a.	n.a.	n.a.	n.a.
POK	27.4.A Total	36,342		2.1	n.a.	n.a.	n.a.	n.a.
POK	27.4.B		JR-xx.2019 Art.5	0.0	n.a.	n.a.	n.a.	n.a.
POK	27.4.B Total	2,228		0.0	n.a.	n.a.	n.a.	n.a.
POK Total		45,078		2.7	0.8	19%	1	19%
RJA	27.4.A		JR-xx.2019 Art.9	2.2	n.a.	n.a.	n.a.	n.a.
RJA	27.4.A Total	2		2.2	n.a.	n.a.	n.a.	n.a.
RJA	27.4.C		JR-xx.2019 Art.9	0.0	n.a.	n.a.	n.a.	n.a.
RJA	27.4.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJA Total		2		2.2	n.a.	n.a.	n.a.	n.a.
RJB	27.3.A.20		JR-xx.2019 Art.9	17.3	1.6	98%	2	100%
RJB	27.3.A.20 Total	17		17.3	1.6	98%	2	100%
RJB	27.3.A.21		JR-xx.2019 Art.9	0.4	0.0	99%	0	99%
RJB	27.3.A.21 Total	0		0.4	0.0	99%	0	99%
RJB	27.4.A		JR-xx.2019 Art.9	7.1	0.0	97%	0	97%
RJB	27.4.A Total			7.1	0.0	97%	0	97%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		7						
RJB	27.4.B		JR-xx.2019 Art.9	1.0	0.0	36%	0	36%
RJB	27.4.B Total	1		1.0	0.0	36%	0	36%
RJB	27.4.C		JR-xx.2019 Art.9	c	c	c	c	c
RJB	27.4.C Total	0		c	c	c	c	c
RJB Total		26		25.8	1.6	95%	2	97%
RJC	27.2.A		JR-xx.2019 Art.9	0.1	n.a.	n.a.	n.a.	n.a.
RJC	27.2.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJC	27.3.A.20		JR-xx.2019 Art.9	0.2	6.5	76%	6	76%
RJC	27.3.A.20 Total	0		0.2	6.5	76%	6	76%
RJC	27.3.A.21		JR-xx.2019 Art.9	0.2	11.7	99%	12	99%
RJC	27.3.A.21 Total	0		0.2	11.7	99%	12	99%
RJC	27.4.A		JR-xx.2019 Art.9	107.4	n.a.	n.a.	n.a.	n.a.
RJC	27.4.A Total	107		107.4	n.a.	n.a.	n.a.	n.a.
RJC	27.4.B		JR-xx.2019 Art.9	142.7	178.7	31%	198	36%
RJC	27.4.B Total	143		142.7	178.7	31%	198	36%
RJC	27.4.C		JR-xx.2019 Art.9	541.0	184.9	30%	185	30%
RJC	27.4.C Total	541		541.0	184.9	30%	185	30%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJC Total		792		791.5	381.7	26%	402	27%
RJF	27.4.A		JR-xx.2019 Art.9	0.2	n.a.	n.a.	n.a.	n.a.
RJF	27.4.A Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJF Total		0		0.2	n.a.	n.a.	n.a.	n.a.
RJG	27.4.A		JR-xx.2019 Art.9	4.3	n.a.	n.a.	n.a.	n.a.
RJG	27.4.A Total	4		4.3	n.a.	n.a.	n.a.	n.a.
RJG Total		4		4.3	n.a.	n.a.	n.a.	n.a.
RJH	27.3.A.20		JR-xx.2019 Art.9	c	c	c	c	c
RJH	27.3.A.20 Total	0		c	c	c	c	c
RJH	27.4.A		JR-xx.2019 Art.9	0.0	n.a.	n.a.	n.a.	n.a.
RJH	27.4.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJH	27.4.B		JR-xx.2019 Art.9	37.5	n.a.	n.a.	n.a.	n.a.
RJH	27.4.B Total	38		37.5	n.a.	n.a.	n.a.	n.a.
RJH	27.4.C		JR-xx.2019 Art.9	115.5	0.0	0%	0	0%
RJH	27.4.C Total	116		115.5	0.0	0%	0	0%
RJH Total		153		153.1	0.0	0%	0	0%
RJI	27.4.A		JR-xx.2019 Art.9	14.6	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJI	27.4.A Total	15		14.6	n.a.	n.a.	n.a.	n.a.
RJI	27.4.B		JR-xx.2019 Art.9	c	c	c	c	c
RJI	27.4.B Total	0		c	c	c	c	c
RJI	27.4.C		JR-xx.2019 Art.9	0.7	n.a.	n.a.	n.a.	n.a.
RJI	27.4.C Total	1		0.7	n.a.	n.a.	n.a.	n.a.
RJI Total		16		15.6	n.a.	n.a.	n.a.	n.a.
RJM	27.3.A.20		JR-xx.2019 Art.9	0.0	0.0	0%	0	0%
RJM	27.3.A.20 Total	0		0.0	0.0	0%	0	0%
RJM	27.4.A		JR-xx.2019 Art.9	158.4	n.a.	n.a.	n.a.	n.a.
RJM	27.4.A Total	158		158.4	n.a.	n.a.	n.a.	n.a.
RJM	27.4.B		JR-xx.2019 Art.9	51.4	331.6	23%	448	26%
RJM	27.4.B Total	51		51.4	331.6	23%	448	26%
RJM	27.4.C		JR-xx.2019 Art.9	118.0	354.6	81%	355	81%
RJM	27.4.C Total	118		118.0	354.6	81%	355	81%
RJM Total		328		327.8	686.2	33%	803	33%
RJN	27.3.A.20		JR-xx.2019 Art.9	14.0	0.7	63%	1	63%
RJN	27.3.A.20 Total	14		14.0	0.7	63%	1	63%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJN	27.3.A.21		JR-xx.2019 Art.9	0.2	0.0	73%	0	73%
RJN	27.3.A.21 Total	0		0.2	0.0	73%	0	73%
RJN	27.4.A		JR-xx.2019 Art.9	179.8	36.7	0%	37	0%
RJN	27.4.A Total	180		179.8	36.7	0%	37	0%
RJN	27.4.B		JR-xx.2019 Art.9	0.8	0.0	1%	0	1%
RJN	27.4.B Total	1		0.8	0.0	1%	0	1%
RJN	27.4.C		JR-xx.2019 Art.9	0.0	n.a.	n.a.	n.a.	n.a.
RJN	27.4.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJN Total		195		194.9	37.4	5%	37	5%
RJO	27.4.A		JR-xx.2019 Art.9	0.2	n.a.	n.a.	n.a.	n.a.
RJO	27.4.A Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJO Total		0		0.2	n.a.	n.a.	n.a.	n.a.
RJR	27.3.A.20		JR-xx.2019 Art.9	0.0	103.4	100%	103	100%
RJR	27.3.A.20 Total	0		0.0	103.4	100%	103	100%
RJR	27.3.A.21		JR-xx.2019 Art.9	0.0	0.6		1	
RJR	27.3.A.21 Total	-		0.0	0.6		1	
RJR	27.4.A		JR-xx.2019 Art.9	1.2	10.4	44%	13	67%
RJR	27.4.A Total			1.2	10.4	44%	13	67%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		1						
RJR	27.4.B		JR-xx.2019 Art.9	1.1	0.0	34%	0	36%
RJR	27.4.B Total	1		1.1	0.0	34%	0	36%
RJR Total		2		2.3	114.4	39%	117	52%
RJU	27.4.C		JR-xx.2019 Art.9	0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.4.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJU Total		0		0.0	n.a.	n.a.	n.a.	n.a.
SKA	27.3.A.20		JR-xx.2019 Art.9	122.0	0.0	99%	0	99%
SKA	27.3.A.20 Total	122		122.0	0.0	99%	0	99%
SKA	27.3.A.21		JR-xx.2019 Art.9	1.6	0.0	78%	0	78%
SKA	27.3.A.21 Total	2		1.6	0.0	78%	0	78%
SKA	27.4.A		JR-xx.2019 Art.9	38.1	0.0	86%	0	86%
SKA	27.4.A Total	38		38.1	0.0	86%	0	86%
SKA	27.4.B		JR-xx.2019 Art.9	16.7	0.0	65%	0	65%
SKA	27.4.B Total	17		16.7	0.0	65%	0	65%
SKA	27.4.C		JR-xx.2019 Art.9	3.5	n.a.	n.a.	n.a.	n.a.
SKA	27.4.C Total	4		3.5	n.a.	n.a.	n.a.	n.a.
SKA Total				181.9	0.0	91%	0	91%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		182						
SOL	27.2.A		JR-xx.2019 Art.10.a	0.1	n.a.	n.a.	n.a.	n.a.
SOL	27.2.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
SOL	27.3.A.20		JR-xx.2019 Art.5	0.0	0.0		0	
SOL	27.3.A.20		JR-xx.2019 Art.10.a	76.2	0.0	80%	0	80%
SOL	27.3.A.20		JR-xx.2019 Art.10.c	0.6	0.8	100%	1	100%
SOL	27.3.A.20 Total	187		76.8	0.8	80%	1	80%
SOL	27.3.A.21		JR-xx.2019 Art.10.a	47.2	n.a.	n.a.	n.a.	n.a.
SOL	27.3.A.21		JR-xx.2019 Art.10.c	1.1	1.6	100%	2	100%
SOL	27.3.A.21 Total	180		48.4	1.6	2%	2	2%
SOL	27.4.A		JR-xx.2019 Art.10.a	0.0	n.a.	n.a.	n.a.	n.a.
SOL	27.4.A Total	1		0.0	n.a.	n.a.	n.a.	n.a.
SOL	27.4.B		JR-xx.2019 Art.5	0.3	n.a.	n.a.	n.a.	n.a.
SOL	27.4.B		JR-xx.2019 Art.10.a	331.9	0.0	3%	0	3%
SOL	27.4.B		JR-xx.2019 Art.10.b	753.3	230.2	19%	230	99%
SOL	27.4.B Total	2,555		1085.5	230.2	14%	230	70%
SOL	27.4.C		JR-xx.2019 Art.5	0.1	0.0	n.a.	n.a.	n.a.
SOL	27.4.C		JR-xx.2019 Art.10.a	652.4	2.1	2%	2	2%
SOL	27.4.C		JR-xx.2019 Art.10.b	2228.1	233.4	6%	233	100%
SOL	27.4.C Total	8,294		2880.6	235.5	5%	236	78%
SOL Total				4091.3	468.1	9%	468	75%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		11,217						
SPR	27.3.A.20		JR-xx.2019 Art.10.m	c	c	c	c	c
SPR	27.3.A.20		JR-xx.2019 Art.10.m	0.0	0.0		0	
SPR	27.3.A.20 Total	1,354		0.0	0.0	100%	0	100%
SPR	27.3.A.21		JR-xx.2019 Art.10.m	0.0	10.4		10	
SPR	27.3.A.21 Total	2,613		0.0	10.4		10	
SPR Total		180,471		0.0	10.4	100%	10	100%
TUR	27.4.A		JR-xx.2019 Art.8	117.5	1.8	79%	10	98%
TUR	27.4.A Total	126		117.5	1.8	79%	10	98%
TUR	27.4.B		JR-xx.2019 Art.8	1841.9	145.4	21%	176	61%
TUR	27.4.B Total	2,024		1841.9	145.4	21%	176	61%
TUR	27.4.C		JR-xx.2019 Art.8	981.7	101.5	8%	101	95%
TUR	27.4.C Total	1,010		981.7	101.5	8%	101	95%
TUR Total		3,300		2941.1	248.7	19%	287	74%
WHB	27.3.A.20		JR-xx.2019 Art.10.m	0.0	4.7		5	
WHB	27.3.A.20		JR-xx.2019 Art.10.m	0.1	0.0	100%	0	100%
WHB	27.3.A.20		JR-xx.2019 Art.10.d	0.1	0.0	100%	0	100%
WHB	27.3.A.20 Total	106		0.1	4.7	100%	5	100%
WHB	27.4.A		JR-xx.2019 Art.10.m	0.0	1.0		1	

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
WHB	27.4.A Total	2,939		0.0	1.0		1	
WHB	27.4.B		JR-xx.2019 Art.10.m	0.0	0.1		0	
WHB	27.4.B Total	7		0.0	0.1		0	
WHB	27.4.C		JR-xx.2019 Art.10.m	c	c	c	c	c
WHB	27.4.C Total	-		c	c	c	c	c
WHB Total		20,516		0.1	5.8	100%	6	100%
WHG	27.3.A.20		JR-xx.2019 Art.10.g	137.3	796.8	100%	798	100%
WHG	27.3.A.20		JR-xx.2019 Art.10.g	22.5	13.6	99%	14	100%
WHG	27.3.A.20		JR-xx.2019 Art.5	0.0	2.3	100%	2	100%
WHG	27.3.A.20		JR-xx.2019 Art.10.c	0.2	15.5	100%	15	100%
WHG	27.3.A.20		JR-xx.2019 Art.10.d	0.0	14.6	100%	15	100%
WHG	27.3.A.20 Total	214		160.0	842.8	100%	844	100%
WHG	27.3.A.21		JR-xx.2019 Art.10.g	8.4	313.5	79%	546	100%
WHG	27.3.A.21		JR-xx.2019 Art.10.g	c	c	c	c	c
WHG	27.3.A.21		JR-xx.2019 Art.10.c	0.3	6.9	100%	7	100%
WHG	27.3.A.21 Total	153		8.6	320.5	80%	553	100%
WHG	27.4.A		JR-xx.2019 Art.5	0.0	n.a.	n.a.	n.a.	n.a.
WHG	27.4.A		JR-xx.2019 Art.10.f	100.1	813.5	58%	813	98%
WHG	27.4.A Total	10,832		100.1	813.5	58%	813	98%
WHG	27.4.B		JR-xx.2019 Art.10.h	51.0	848.9	24%	849	91%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
WHG	27.4.B		JR-xx.2019 Art.5	2.3	n.a.	n.a.	n.a.	n.a.
WHG	27.4.B		JR-xx.2019 Art.10.f	510.8	1153.1	56%	1432	76%
WHG	27.4.B Total	2,278		564.2	2002.0	53%	2281	77%
WHG	27.4.C		JR-xx.2019 Art.10.h	315.4	1022.6	3%	1029	99%
WHG	27.4.C		JR-xx.2019 Art.10.e	900.4	273.5	9%	362	43%
WHG	27.4.C Total	1,321		1215.8	1296.1	8%	1390	57%
WHG Total		14,800		2048.7	5274.9	30%	5881	68%
SAN	27.3.A.20		JR-xx.2019 Art.10.m	c	c	c	c	c
SAN	27.3.A.20 Total	8,312		c	c	c	c	c
SAN	27.4.B		JR-xx.2019 Art.10.m	0.0	n.a.	n.a.	n.a.	n.a.
SAN	27.4.B Total	192,327		0.0	n.a.	n.a.	n.a.	n.a.
SAN	27.4.C		JR-xx.2019 Art.10.m	0.0	n.a.	n.a.	n.a.	n.a.
SAN	27.4.C Total	161		0.0	n.a.	n.a.	n.a.	n.a.
SAN Total		201,484		c	c	c	c	c

Table 2. Overall landings and anticipated exemptions associated with species and Sub Regions reported to FDI for North Western Waters

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ALB	27.7.H		190/2018 Article 3a.b	1.1	n.a.	n.a.	n.a.	n.a.
ALB	27.7.H Total	1		1.1	n.a.	n.a.	n.a.	n.a.
ALB	27.7.J		190/2018 Article 3a.b	1896.2	n.a.	n.a.	n.a.	n.a.
ALB	27.7.J Total	2,735		1896.2	n.a.	n.a.	n.a.	n.a.
ALB	27.7.K		190/2018 Article 3a.b	1129.9	n.a.	n.a.	n.a.	n.a.
ALB	27.7.K Total	1,168		1129.9	n.a.	n.a.	n.a.	n.a.
ALB Total		3,905		3027.1	n.a.	n.a.	n.a.	n.a.
ARG	27.6.A		XX/2019 Article 8.j	0.1	n.a.	n.a.	n.a.	n.a.
ARG	27.6.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
ARG	27.6.B		XX/2019 Article 8.j	0.0	n.a.	n.a.	n.a.	n.a.
ARG	27.6.B Total	0		0.0	n.a.	n.a.	n.a.	n.a.
ARG Total		0		0.2	n.a.	n.a.	n.a.	n.a.
BOR	27.7.J		XX/2019 Article 8.i	c	c	c	c	c
BOR	27.7.J Total	1,197		c	c	c	c	c
BOR Total				c	c	c	c	c

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		4,288						
HAD	27.6.A		XX/2019 Article 8.k	534.5	789.3	14%	865	85%
HAD	27.6.A Total	4,314		534.5	789.3	14%	865	85%
HAD	27.7.B		XX/2019 Article 8.d	164.2	n.a.	n.a.	n.a.	n.a.
HAD	27.7.B Total	209		164.2	n.a.	n.a.	n.a.	n.a.
HAD	27.7.C		XX/2019 Article 8.d	46.8	n.a.	n.a.	n.a.	n.a.
HAD	27.7.C Total	50		46.8	n.a.	n.a.	n.a.	n.a.
HAD	27.7.E		XX/2019 Article 8.d	1125.2	5062.2	90%	5119	92%
HAD	27.7.E Total	1,167		1125.2	5062.2	90%	5119	92%
HAD	27.7.F		XX/2019 Article 8.d	390.7	320.6	15%	321	15%
HAD	27.7.F Total	443		390.7	320.6	15%	321	15%
HAD	27.7.G		XX/2019 Article 8.d	1581.4	1437.9	18%	1530	37%
HAD	27.7.G Total	1,733		1581.4	1437.9	18%	1530	37%
HAD	27.7.H		XX/2019 Article 8.d	2340.8	4891.6	68%	4892	71%
HAD	27.7.H Total	2,425		2340.8	4891.6	68%	4892	71%
HAD	27.7.J		XX/2019 Article 8.d	375.3	31.4	33%	31	55%
HAD	27.7.J Total	573		375.3	31.4	33%	31	55%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HAD	27.7.K		XX/2019 Article 8.d	1.8	n.a.	n.a.	n.a.	n.a.
HAD	27.7.K Total	2		1.8	n.a.	n.a.	n.a.	n.a.
HAD Total		17,200		6560.6	12533.0	48%	12757	61%
HER	27.7.D		190/2018 Article 3a.c	4.5	0.0	1%	0	96%
HER	27.7.D Total	42,970		4.5	0.0	1%	0	96%
HER Total		60,161		4.5	0.0	1%	0	96%
HMM	27.7.D		XX/2019 Article 8.e	0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.7.D Total	0		0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.7.E		XX/2019 Article 8.e	0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.7.E Total	2		0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.7.H		XX/2019 Article 8.e	1.0	n.a.	n.a.	n.a.	n.a.
HMM	27.7.H Total	1		1.0	n.a.	n.a.	n.a.	n.a.
HMM	27.7.J		XX/2019 Article 8.e	0.0	n.a.	n.a.	n.a.	n.a.
HMM	27.7.J Total	0		0.0	n.a.	n.a.	n.a.	n.a.
HMM Total		3		1.2	n.a.	n.a.	n.a.	n.a.
HOM	27.6.B		XX/2019 Article 8.e	0.0	7.4		7	

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HOM	27.6.B Total	-		0.0	7.4		7	
HOM	27.7.B		XX/2019 Article 8.e	1.7	4.9	0%	5	0%
HOM	27.7.B Total	3,179		1.7	4.9	0%	5	0%
HOM	27.7.C		XX/2019 Article 8.e	0.9	101.1	0%	101	0%
HOM	27.7.C Total	325		0.9	101.1	0%	101	0%
HOM	27.7.D		XX/2019 Article 8.e	537.7	224.0	17%	224	41%
HOM	27.7.D		190/2018 Article 3a.c	25.7	1.6	69%	2	69%
HOM	27.7.D Total	9,444		563.4	225.5	20%	226	42%
HOM	27.7.E		XX/2019 Article 8.e	152.0	98.3	39%	98	64%
HOM	27.7.E Total	1,433		152.0	98.3	39%	98	64%
HOM	27.7.F		XX/2019 Article 8.e	0.0	n.a.	n.a.	n.a.	n.a.
HOM	27.7.F Total	394		0.0	n.a.	n.a.	n.a.	n.a.
HOM	27.7.G		XX/2019 Article 8.e	0.5	0.9	0%	1	0%
HOM	27.7.G Total	401		0.5	0.9	0%	1	0%
HOM	27.7.H		XX/2019 Article 8.e	1.6	21.4	0%	21	0%
HOM	27.7.H Total	8,532		1.6	21.4	0%	21	0%
HOM	27.7.J		XX/2019 Article 8.e	3.9	303.4	0%	303	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HOM	27.7.J Total	470		3.9	303.4	0%	303	0%
HOM	27.7.K		XX/2019 Article 8.e	0.4	11.7	0%	12	0%
HOM	27.7.K Total	0		0.4	11.7	0%	12	0%
HOM Total		43,946		724.4	774.6	23%	775	46%
JAD	27.7.G		XX/2019 Article 5	c	c	c	c	c
JAD	27.7.G Total	-		c	c	c	c	c
JAD Total		-		c	c	c	c	c
JAX	27.6.A		XX/2019 Article 8.e	4.1	21.2	0%	21	0%
JAX	27.6.A Total	19,339		4.1	21.2	0%	21	0%
JAX	27.7.B		XX/2019 Article 8.e	0.5	1.3	0%	1	0%
JAX	27.7.B Total	5,985		0.5	1.3	0%	1	0%
JAX	27.7.D		XX/2019 Article 8.e	105.2	5.0	4%	5	4%
JAX	27.7.D		190/2018 Article 3a.c	0.2	n.a.	n.a.	n.a.	n.a.
JAX	27.7.D Total	2,470		105.4	5.0	4%	5	4%
JAX	27.7.E		XX/2019 Article 8.e	12.4	23.2	7%	24	9%
JAX	27.7.E Total	230		12.4	23.2	7%	24	9%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
JAX	27.7.G		XX/2019 Article 8.e	0.0	10.9		11	
JAX	27.7.G Total	335		0.0	10.9		11	
JAX	27.7.H		XX/2019 Article 8.e	0.3	0.4	0%	0	0%
JAX	27.7.H Total	1,560		0.3	0.4	0%	0	0%
JAX	27.7.J		XX/2019 Article 8.e	3.6	n.a.	n.a.	n.a.	n.a.
JAX	27.7.J Total	1,474		3.6	n.a.	n.a.	n.a.	n.a.
JAX Total		31,620		126.4	62.1	4%	63	4%
JDP	27.7.D		XX/2019 Article 5	0.2	n.a.	n.a.	n.a.	n.a.
JDP	27.7.D Total	0		0.2	n.a.	n.a.	n.a.	n.a.
JDP	27.7.E		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
JDP	27.7.E Total	0		0.1	n.a.	n.a.	n.a.	n.a.
JDP	27.7.H		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
JDP	27.7.H Total	0		0.1	n.a.	n.a.	n.a.	n.a.
JDP Total		0		0.4	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.A		XX/2019 Article 8.h	0.6	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.A		XX/2019 Article 8.h	5.2	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.A Total			5.9	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		17						
LEZ	27.7.B		XX/2019 Article 8.h	246.9	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.B Total	540		246.9	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.C		XX/2019 Article 8.h	714.3	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.C Total	1,138		714.3	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.D		XX/2019 Article 8.h	0.1	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.D		XX/2019 Article 8.h	0.1	0.0	100%	0	100%
LEZ	27.7.D Total	1		0.2	0.0	58%	0	58%
LEZ	27.7.E		XX/2019 Article 8.h	36.0	0.2	3%	0	3%
LEZ	27.7.E		XX/2019 Article 8.h	110.0	30.1	100%	30	100%
LEZ	27.7.E Total	229		145.9	30.3	76%	30	76%
LEZ	27.7.F		XX/2019 Article 8.h	4.5	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.F		XX/2019 Article 8.h	242.8	30.4	100%	30	100%
LEZ	27.7.F Total	269		247.3	30.4	98%	30	98%
LEZ	27.7.G		XX/2019 Article 8.h	104.7	2.7	9%	3	9%
LEZ	27.7.G		XX/2019 Article 8.h	769.6	39.4	32%	39	32%
LEZ	27.7.G Total	1,612		874.3	42.2	29%	42	29%
LEZ	27.7.H		XX/2019 Article 8.h	284.9	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
LEZ	27.7.H		XX/2019 Article 8.h	282.4	59.6	100%	60	100%
LEZ	27.7.H Total	1,019		567.4	59.6	50%	60	50%
LEZ	27.7.J		XX/2019 Article 8.h	1293.4	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.J		XX/2019 Article 8.h	c	c	c	c	c
LEZ	27.7.J Total	4,625		1295.1	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.K		XX/2019 Article 8.h	56.1	n.a.	n.a.	n.a.	n.a.
LEZ	27.7.K Total	136		56.1	n.a.	n.a.	n.a.	n.a.
LEZ Total		11,600		4153.3	162.5	21%	162	21%
MAC	27.6.A		XX/2019 Article 8.f	1832.6	45.4	0%	45	0%
MAC	27.6.A Total	138,936		1832.6	45.4	0%	45	0%
MAC	27.6.B		XX/2019 Article 8.f	2.9	51.4	100%	51	100%
MAC	27.6.B Total	3		2.9	51.4	100%	51	100%
MAC	27.7.B		XX/2019 Article 8.f	4.2	2.4	0%	2	0%
MAC	27.7.B Total	10,234		4.2	2.4	0%	2	0%
MAC	27.7.C		XX/2019 Article 8.f	1.9	33.6	0%	34	0%
MAC	27.7.C Total	9		1.9	33.6	0%	34	0%
MAC	27.7.D		XX/2019 Article 8.f	3002.1	25.7	12%	26	73%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MAC	27.7.D		190/2018 Article 3a.c	445.2	0.4	89%	0	89%
MAC	27.7.D Total	5,377		3447.3	26.1	22%	26	75%
MAC	27.7.E		XX/2019 Article 8.f	523.1	42.8	80%	46	91%
MAC	27.7.E Total	1,060		523.1	42.8	80%	46	91%
MAC	27.7.F		XX/2019 Article 8.f	0.3	n.a.	n.a.	n.a.	n.a.
MAC	27.7.F Total	365		0.3	n.a.	n.a.	n.a.	n.a.
MAC	27.7.G		XX/2019 Article 8.f	0.9	0.3	0%	0	0%
MAC	27.7.G Total	28		0.9	0.3	0%	0	0%
MAC	27.7.H		XX/2019 Article 8.f	2.4	16.0	0%	16	0%
MAC	27.7.H Total	193		2.4	16.0	0%	16	0%
MAC	27.7.J		XX/2019 Article 8.f	37.5	224.0	0%	224	0%
MAC	27.7.J Total	6,822		37.5	224.0	0%	224	0%
MAC	27.7.K		XX/2019 Article 8.f	0.4	2.5	0%	2	0%
MAC	27.7.K Total	0		0.4	2.5	0%	2	0%
MAC Total		163,049		5853.6	444.5	20%	448	52%
MEG	27.7.E		XX/2019 Article 8.h	38.8	n.a.	n.a.	n.a.	n.a.
MEG	27.7.E Total			38.8	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		87						
MEG	27.7.F		XX/2019 Article 8.h	1.4	n.a.	n.a.	n.a.	n.a.
MEG	27.7.F Total	47		1.4	n.a.	n.a.	n.a.	n.a.
MEG	27.7.G		XX/2019 Article 8.h	0.5	n.a.	n.a.	n.a.	n.a.
MEG	27.7.G Total	302		0.5	n.a.	n.a.	n.a.	n.a.
MEG	27.7.H		XX/2019 Article 8.h	74.4	n.a.	n.a.	n.a.	n.a.
MEG	27.7.H Total	830		74.4	n.a.	n.a.	n.a.	n.a.
MEG	27.7.J		XX/2019 Article 8.h	0.0	n.a.	n.a.	n.a.	n.a.
MEG	27.7.J Total	63		0.0	n.a.	n.a.	n.a.	n.a.
MEG	27.7.K		XX/2019 Article 8.h	0.0	n.a.	n.a.	n.a.	n.a.
MEG	27.7.K Total	5		0.0	n.a.	n.a.	n.a.	n.a.
MEG Total		1,444		115.2	n.a.	n.a.	n.a.	n.a.
NEP	27.6.A		XX/2019 Article 3.1.a	1316.5	n.a.	n.a.	n.a.	n.a.
NEP	27.6.A Total	9,003		1316.5	n.a.	n.a.	n.a.	n.a.
NEP	27.7.A		XX/2019 Article 3.1.a	10.6	n.a.	n.a.	n.a.	n.a.
NEP	27.7.A		XX/2019 Article 3.1.b	129.4	0.5	2%	1	2%
NEP	27.7.A Total	6,067		140.0	0.5	2%	1	2%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
NEP	27.7.B		XX/2019 Article 3.1.b	35.2	2.7	32%	3	32%
NEP	27.7.B Total	565		35.2	2.7	32%	3	32%
NEP	27.7.C		XX/2019 Article 3.1.b	257.5	n.a.	n.a.	n.a.	n.a.
NEP	27.7.C Total	985		257.5	n.a.	n.a.	n.a.	n.a.
NEP	27.7.D		XX/2019 Article 3.1.b	1.3	n.a.	n.a.	n.a.	n.a.
NEP	27.7.D Total	1		1.3	n.a.	n.a.	n.a.	n.a.
NEP	27.7.E		XX/2019 Article 3.1.b	11.5	0.0	0%	0	0%
NEP	27.7.E Total	12		11.5	0.0	0%	0	0%
NEP	27.7.F		XX/2019 Article 3.1.b	10.5	n.a.	n.a.	n.a.	n.a.
NEP	27.7.F Total	11		10.5	n.a.	n.a.	n.a.	n.a.
NEP	27.7.G		XX/2019 Article 3.1.a	0.0	n.a.	n.a.	n.a.	n.a.
NEP	27.7.G		XX/2019 Article 3.1.b	1662.7	40.4	16%	45	34%
NEP	27.7.G Total	3,023		1662.7	40.4	16%	45	34%
NEP	27.7.H		XX/2019 Article 3.1.b	884.8	n.a.	n.a.	n.a.	n.a.
NEP	27.7.H Total	898		884.8	n.a.	n.a.	n.a.	n.a.
NEP	27.7.J		XX/2019 Article 3.1.a	c	c	c	c	c
NEP	27.7.J		XX/2019 Article 3.1.b	162.1	11.6	35%	16	43%
NEP	27.7.J Total			162.1	11.6	35%	16	43%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		266						
NEP	27.7.K		XX/2019 Article 3.1.b	545.4	2.8	2%	17	9%
NEP	27.7.K Total	1,814		545.4	2.8	2%	17	9%
NEP Total		22,648		5027.5	57.9	7%	82	14%
PLE	27.7.D		XX/2019 Article 6.1.a	436.3	492.6	99%	493	99%
PLE	27.7.D		XX/2019 Article 6.1.b	2128.6	4924.7	94%	4926	94%
PLE	27.7.D		XX/2019 Article 6.1.e	42.4	n.a.	n.a.	n.a.	n.a.
PLE	27.7.D Total	5,005		2607.3	5417.3	94%	5418	94%
PLE	27.7.E		XX/2019 Article 6.1.a	82.5	0.2	15%	0	15%
PLE	27.7.E		XX/2019 Article 6.1.b	382.0	123.4	95%	126	97%
PLE	27.7.E Total	1,643		464.5	123.5	81%	126	83%
PLE	27.7.F		XX/2019 Article 6.1.a	1.8	n.a.	n.a.	n.a.	n.a.
PLE	27.7.F		XX/2019 Article 6.1.b	77.0	9.0	9%	9	9%
PLE	27.7.F Total	196		78.8	9.0	8%	9	8%
PLE	27.7.G		XX/2019 Article 6.1.a	0.2	0.2	0%	0	0%
PLE	27.7.G		XX/2019 Article 6.1.b	112.7	7.4	33%	11	44%
PLE	27.7.G Total	227		112.9	7.6	33%	11	44%
PLE Total		7,943		3263.6	5557.4	88%	5565	88%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJA	27.6.A		XX/2019 Article 5	2.0	n.a.	n.a.	n.a.	n.a.
RJA	27.6.A Total	2		2.0	n.a.	n.a.	n.a.	n.a.
RJA	27.7.D		XX/2019 Article 5	4.7	n.a.	n.a.	n.a.	n.a.
RJA	27.7.D Total	5		4.7	n.a.	n.a.	n.a.	n.a.
RJA	27.7.E		XX/2019 Article 5	1.1	n.a.	n.a.	n.a.	n.a.
RJA	27.7.E Total	1		1.1	n.a.	n.a.	n.a.	n.a.
RJA	27.7.H		XX/2019 Article 5	0.2	n.a.	n.a.	n.a.	n.a.
RJA	27.7.H Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJA Total		8		8.0	n.a.	n.a.	n.a.	n.a.
RJB	27.6.A		XX/2019 Article 5	0.1	9.8	0%	10	0%
RJB	27.6.A Total	0		0.1	9.8	0%	10	0%
RJB	27.6.B		XX/2019 Article 5	0.0	1.3		1	
RJB	27.6.B Total	-		0.0	1.3		1	
RJB	27.7.A		XX/2019 Article 5	c	c	c	c	c
RJB	27.7.A Total	1		c	c	c	c	c
RJB	27.7.B		XX/2019 Article 5	0.0	1.0		1	
RJB	27.7.B Total			0.0	1.0		1	

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		-						
RJB	27.7.C		XX/2019 Article 5	0.0	20.1		20	
RJB	27.7.C Total	-		0.0	20.1		20	
RJB	27.7.D		XX/2019 Article 5	c	c	c	c	c
RJB	27.7.D Total	0		c	c	c	c	c
RJB	27.7.E		XX/2019 Article 5	0.0	80.3	0%	80	0%
RJB	27.7.E Total	0		0.0	80.3	0%	80	0%
RJB	27.7.G		XX/2019 Article 5	0.0	13.7	0%	14	0%
RJB	27.7.G Total	0		0.0	13.7	0%	14	0%
RJB	27.7.H		XX/2019 Article 5	0.0	26.3		26	
RJB	27.7.H Total	-		0.0	26.3		26	
RJB	27.7.J		XX/2019 Article 5	0.0	54.2		54	
RJB	27.7.J Total	-		0.0	54.2		54	
RJB	27.7.K		XX/2019 Article 5	0.0	2.4		2	
RJB	27.7.K Total	-		0.0	2.4		2	
RJB Total		1		0.8	208.9	0%	209	0%
RJC	27.6.A		XX/2019 Article 5	226.5	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJC	27.6.A Total	227		226.5	n.a.	n.a.	n.a.	n.a.
RJC	27.6.B		XX/2019 Article 5	20.8	0.1	9%	0	13%
RJC	27.6.B Total	21		20.8	0.1	9%	0	13%
RJC	27.7.A		XX/2019 Article 5	211.9	n.a.	n.a.	n.a.	n.a.
RJC	27.7.A Total	212		211.9	n.a.	n.a.	n.a.	n.a.
RJC	27.7.B		XX/2019 Article 5	15.8	n.a.	n.a.	n.a.	n.a.
RJC	27.7.B Total	16		15.8	n.a.	n.a.	n.a.	n.a.
RJC	27.7.C		XX/2019 Article 5	9.3	n.a.	n.a.	n.a.	n.a.
RJC	27.7.C Total	9		9.3	n.a.	n.a.	n.a.	n.a.
RJC	27.7.D		XX/2019 Article 5	1439.9	225.9	77%	226	77%
RJC	27.7.D Total	1,440		1439.9	225.9	77%	226	77%
RJC	27.7.E		XX/2019 Article 5	434.4	79.7	65%	80	66%
RJC	27.7.E Total	434		434.4	79.7	65%	80	66%
RJC	27.7.F		XX/2019 Article 5	186.7	27.4	37%	27	37%
RJC	27.7.F Total	187		186.7	27.4	37%	27	37%
RJC	27.7.G		XX/2019 Article 5	223.1	0.0	0%	0	0%
RJC	27.7.G Total			223.1	0.0	0%	0	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		223						
RJC	27.7.H		XX/2019 Article 5	9.8	n.a.	n.a.	n.a.	n.a.
RJC	27.7.H Total	10		9.8	n.a.	n.a.	n.a.	n.a.
RJC	27.7.J		XX/2019 Article 5	24.6	n.a.	n.a.	n.a.	n.a.
RJC	27.7.J Total	25		24.6	n.a.	n.a.	n.a.	n.a.
RJC	27.7.K		XX/2019 Article 5	1.7	n.a.	n.a.	n.a.	n.a.
RJC	27.7.K Total	2		1.7	n.a.	n.a.	n.a.	n.a.
RJC Total		2,805		2804.5	333.1	52%	334	53%
RJE	27.6.A		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.6.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.C		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.D		XX/2019 Article 5	13.1	n.a.	n.a.	n.a.	n.a.
RJE	27.7.D Total	13		13.1	n.a.	n.a.	n.a.	n.a.
RJE	27.7.E		XX/2019 Article 5	8.0	58.3	11%	66	12%
RJE	27.7.E Total	8		8.0	58.3	11%	66	12%
RJE	27.7.F		XX/2019 Article 5	68.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJE	27.7.F Total	68		68.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.G		XX/2019 Article 5	55.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.G Total	55		55.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.H		XX/2019 Article 5	2.4	n.a.	n.a.	n.a.	n.a.
RJE	27.7.H Total	2		2.4	n.a.	n.a.	n.a.	n.a.
RJE	27.7.J		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.J Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.K		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJE	27.7.K Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJE Total		147		146.5	58.3	1%	66	1%
RJF	27.6.A		XX/2019 Article 5	6.1	0.4	49%	0	49%
RJF	27.6.A Total	6		6.1	0.4	49%	0	49%
RJF	27.6.B		XX/2019 Article 5	7.7	0.2	82%	0	82%
RJF	27.6.B Total	8		7.7	0.2	82%	0	82%
RJF	27.7.B		XX/2019 Article 5	0.7	0.0	n.a.	n.a.	n.a.
RJF	27.7.B Total	1		0.7	0.0	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJF	27.7.C		XX/2019 Article 5	2.0	0.5	15%	0	15%
RJF	27.7.C Total	2		2.0	0.5	15%	0	15%
RJF	27.7.D		XX/2019 Article 5	0.3	n.a.	n.a.	n.a.	n.a.
RJF	27.7.D Total	0		0.3	n.a.	n.a.	n.a.	n.a.
RJF	27.7.E		XX/2019 Article 5	3.9	0.0	29%	0	29%
RJF	27.7.E Total	4		3.9	0.0	29%	0	29%
RJF	27.7.F		XX/2019 Article 5	2.9	n.a.	n.a.	n.a.	n.a.
RJF	27.7.F Total	3		2.9	n.a.	n.a.	n.a.	n.a.
RJF	27.7.G		XX/2019 Article 5	8.3	1.6	38%	2	38%
RJF	27.7.G Total	8		8.3	1.6	38%	2	38%
RJF	27.7.H		XX/2019 Article 5	82.0	9.6	55%	10	55%
RJF	27.7.H Total	82		82.0	9.6	55%	10	55%
RJF	27.7.J		XX/2019 Article 5	46.8	12.2	47%	13	47%
RJF	27.7.J Total	47		46.8	12.2	47%	13	47%
RJF	27.7.K		XX/2019 Article 5	0.3	0.1	0%	0	0%
RJF	27.7.K Total	0		0.3	0.1	0%	0	0%
RJF Total				160.8	24.5	50%	25	50%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		161						
RJG	27.6.A		XX/2019 Article 5	6.3	n.a.	n.a.	n.a.	n.a.
RJG	27.6.A Total	6		6.3	n.a.	n.a.	n.a.	n.a.
RJG	27.7.D		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJG	27.7.D Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJG	27.7.E		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJG	27.7.E Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJG	27.7.J		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJG	27.7.J Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJG Total		6		6.3	n.a.	n.a.	n.a.	n.a.
RJH	27.6.A		XX/2019 Article 5	4.0	n.a.	n.a.	n.a.	n.a.
RJH	27.6.A Total	4		4.0	n.a.	n.a.	n.a.	n.a.
RJH	27.7.A		XX/2019 Article 5	67.9	n.a.	n.a.	n.a.	n.a.
RJH	27.7.A Total	68		67.9	n.a.	n.a.	n.a.	n.a.
RJH	27.7.B		XX/2019 Article 5	0.7	n.a.	n.a.	n.a.	n.a.
RJH	27.7.B Total	1		0.7	n.a.	n.a.	n.a.	n.a.
RJH	27.7.C		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJH	27.7.C Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJH	27.7.D		XX/2019 Article 5	140.2	81.8	27%	82	27%
RJH	27.7.D Total	140		140.2	81.8	27%	82	27%
RJH	27.7.E		XX/2019 Article 5	731.6	4.0	43%	4	43%
RJH	27.7.E Total	732		731.6	4.0	43%	4	43%
RJH	27.7.F		XX/2019 Article 5	485.4	n.a.	n.a.	n.a.	n.a.
RJH	27.7.F Total	485		485.4	n.a.	n.a.	n.a.	n.a.
RJH	27.7.G		XX/2019 Article 5	294.9	38.0	17%	38	17%
RJH	27.7.G Total	295		294.9	38.0	17%	38	17%
RJH	27.7.H		XX/2019 Article 5	70.9	n.a.	n.a.	n.a.	n.a.
RJH	27.7.H Total	71		70.9	n.a.	n.a.	n.a.	n.a.
RJH	27.7.J		XX/2019 Article 5	1.1	n.a.	n.a.	n.a.	n.a.
RJH	27.7.J Total	1		1.1	n.a.	n.a.	n.a.	n.a.
RJH	27.7.K		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJH	27.7.K Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJH Total		1,797		1796.7	123.8	22%	124	22%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJI	27.6.A		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
RJI	27.6.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJI	27.6.B		XX/2019 Article 5	25.1	n.a.	n.a.	n.a.	n.a.
RJI	27.6.B Total	25		25.1	n.a.	n.a.	n.a.	n.a.
RJI	27.7.A		XX/2019 Article 5	1.5	n.a.	n.a.	n.a.	n.a.
RJI	27.7.A Total	1		1.5	n.a.	n.a.	n.a.	n.a.
RJI	27.7.B		XX/2019 Article 5	4.7	0.0	0%	0	0%
RJI	27.7.B Total	5		4.7	0.0	0%	0	0%
RJI	27.7.C		XX/2019 Article 5	7.8	0.2	28%	0	28%
RJI	27.7.C Total	8		7.8	0.2	28%	0	28%
RJI	27.7.D		XX/2019 Article 5	10.0	n.a.	n.a.	n.a.	n.a.
RJI	27.7.D Total	10		10.0	n.a.	n.a.	n.a.	n.a.
RJI	27.7.E		XX/2019 Article 5	7.2	n.a.	n.a.	n.a.	n.a.
RJI	27.7.E Total	7		7.2	n.a.	n.a.	n.a.	n.a.
RJI	27.7.F		XX/2019 Article 5	46.7	n.a.	n.a.	n.a.	n.a.
RJI	27.7.F Total	47		46.7	n.a.	n.a.	n.a.	n.a.
RJI	27.7.G		XX/2019 Article 5	78.4	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJI	27.7.G Total	78		78.4	n.a.	n.a.	n.a.	n.a.
RJI	27.7.H		XX/2019 Article 5	12.1	0.1	0%	0	0%
RJI	27.7.H Total	12		12.1	0.1	0%	0	0%
RJI	27.7.J		XX/2019 Article 5	23.5	0.9	2%	1	2%
RJI	27.7.J Total	24		23.5	0.9	2%	1	2%
RJI	27.7.K		XX/2019 Article 5	3.6	0.0	0%	0	0%
RJI	27.7.K Total	4		3.6	0.0	0%	0	0%
RJI Total		221		220.5	1.1	1%	1	1%
RJM	27.6.A		XX/2019 Article 5	78.4	0.1	19%	0	19%
RJM	27.6.A Total	78		78.4	0.1	19%	0	19%
RJM	27.6.B		XX/2019 Article 5	1.7	n.a.	n.a.	n.a.	n.a.
RJM	27.6.B Total	2		1.7	n.a.	n.a.	n.a.	n.a.
RJM	27.7.A		XX/2019 Article 5	c	c	c	c	c
RJM	27.7.A Total	2		c	c	c	c	c
RJM	27.7.B		XX/2019 Article 5	3.5	0.0	0%	0	0%
RJM	27.7.B Total	4		3.5	0.0	0%	0	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJM	27.7.C		XX/2019 Article 5	1.3	n.a.	n.a.	n.a.	n.a.
RJM	27.7.C Total	1		1.3	n.a.	n.a.	n.a.	n.a.
RJM	27.7.D		XX/2019 Article 5	30.9	4.3	41%	4	41%
RJM	27.7.D Total	31		30.9	4.3	41%	4	41%
RJM	27.7.E		XX/2019 Article 5	440.2	29.3	76%	29	76%
RJM	27.7.E Total	440		440.2	29.3	76%	29	76%
RJM	27.7.F		XX/2019 Article 5	335.5	39.5	4%	40	4%
RJM	27.7.F Total	336		335.5	39.5	4%	40	4%
RJM	27.7.G		XX/2019 Article 5	96.1	71.1	36%	71	36%
RJM	27.7.G Total	96		96.1	71.1	36%	71	36%
RJM	27.7.H		XX/2019 Article 5	69.9	14.3	52%	14	52%
RJM	27.7.H Total	70		69.9	14.3	52%	14	52%
RJM	27.7.J		XX/2019 Article 5	2.0	2.9	45%	3	45%
RJM	27.7.J Total	2		2.0	2.9	45%	3	45%
RJM	27.7.K		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
RJM	27.7.K Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJM Total				1061.4	161.6	42%	162	42%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		1,061						
RJN	27.6.A		XX/2019 Article 5	60.9	1.3	18%	1	18%
RJN	27.6.A Total	61		60.9	1.3	18%	1	18%
RJN	27.6.B		XX/2019 Article 5	0.7	1.3	0%	1	0%
RJN	27.6.B Total	1		0.7	1.3	0%	1	0%
RJN	27.7.A		XX/2019 Article 5	1.6	n.a.	n.a.	n.a.	n.a.
RJN	27.7.A Total	2		1.6	n.a.	n.a.	n.a.	n.a.
RJN	27.7.B		XX/2019 Article 5	33.1	0.3	0%	0	0%
RJN	27.7.B Total	33		33.1	0.3	0%	0	0%
RJN	27.7.C		XX/2019 Article 5	20.4	8.0	52%	10	65%
RJN	27.7.C Total	20		20.4	8.0	52%	10	65%
RJN	27.7.D		XX/2019 Article 5	3.0	n.a.	n.a.	n.a.	n.a.
RJN	27.7.D Total	3		3.0	n.a.	n.a.	n.a.	n.a.
RJN	27.7.E		XX/2019 Article 5	281.3	291.4	70%	298	70%
RJN	27.7.E Total	281		281.3	291.4	70%	298	70%
RJN	27.7.F		XX/2019 Article 5	99.6	n.a.	n.a.	n.a.	n.a.
RJN	27.7.F Total	100		99.6	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJN	27.7.G		XX/2019 Article 5	55.5	3.8	36%	5	37%
RJN	27.7.G Total	55		55.5	3.8	36%	5	37%
RJN	27.7.H		XX/2019 Article 5	1014.7	144.4	58%	145	59%
RJN	27.7.H Total	1,015		1014.7	144.4	58%	145	59%
RJN	27.7.J		XX/2019 Article 5	309.1	285.5	66%	296	75%
RJN	27.7.J Total	309		309.1	285.5	66%	296	75%
RJN	27.7.K		XX/2019 Article 5	0.6	0.9	0%	1	0%
RJN	27.7.K Total	1		0.6	0.9	0%	1	0%
RJN Total		1,881		1880.5	737.0	55%	759	57%
RJO	27.6.A		XX/2019 Article 5	1.1	n.a.	n.a.	n.a.	n.a.
RJO	27.6.A Total	1		1.1	n.a.	n.a.	n.a.	n.a.
RJO	27.6.B		XX/2019 Article 5	43.5	n.a.	n.a.	n.a.	n.a.
RJO	27.6.B Total	43		43.5	n.a.	n.a.	n.a.	n.a.
RJO	27.7.B		XX/2019 Article 5	22.0	n.a.	n.a.	n.a.	n.a.
RJO	27.7.B Total	22		22.0	n.a.	n.a.	n.a.	n.a.
RJO	27.7.C		XX/2019 Article 5	49.7	n.a.	n.a.	n.a.	n.a.
RJO	27.7.C Total			49.7	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		50						
RJO	27.7.D		XX/2019 Article 5	0.6	n.a.	n.a.	n.a.	n.a.
RJO	27.7.D Total	1		0.6	n.a.	n.a.	n.a.	n.a.
RJO	27.7.E		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
RJO	27.7.E Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJO	27.7.F		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.7.F Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.7.G		XX/2019 Article 5	29.2	n.a.	n.a.	n.a.	n.a.
RJO	27.7.G Total	29		29.2	n.a.	n.a.	n.a.	n.a.
RJO	27.7.H		XX/2019 Article 5	149.5	n.a.	n.a.	n.a.	n.a.
RJO	27.7.H Total	149		149.5	n.a.	n.a.	n.a.	n.a.
RJO	27.7.J		XX/2019 Article 5	276.2	n.a.	n.a.	n.a.	n.a.
RJO	27.7.J Total	276		276.2	n.a.	n.a.	n.a.	n.a.
RJO	27.7.K		XX/2019 Article 5	1.7	n.a.	n.a.	n.a.	n.a.
RJO	27.7.K Total	2		1.7	n.a.	n.a.	n.a.	n.a.
RJO Total		574		573.7	n.a.	n.a.	n.a.	n.a.
RJR	27.6.A		XX/2019 Article 5	15.6	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJR	27.6.A Total	16		15.6	n.a.	n.a.	n.a.	n.a.
RJR	27.7.D		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.7.D Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.7.E		XX/2019 Article 5	0.2	n.a.	n.a.	n.a.	n.a.
RJR	27.7.E Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJR	27.7.F		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
RJR	27.7.F Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJR	27.7.H		XX/2019 Article 5	0.3	n.a.	n.a.	n.a.	n.a.
RJR	27.7.H Total	0		0.3	n.a.	n.a.	n.a.	n.a.
RJR Total		16		16.2	n.a.	n.a.	n.a.	n.a.
RJU	27.7.A		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.7.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.7.B		XX/2019 Article 5	0.3	0.1	0%	0	0%
RJU	27.7.B Total	0		0.3	0.1	0%	0	0%
RJU	27.7.D		XX/2019 Article 5	19.9	915.6	64%	916	64%
RJU	27.7.D Total	20		19.9	915.6	64%	916	64%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJU	27.7.E		XX/2019 Article 5	124.0	2039.1	70%	2202	72%
RJU	27.7.E Total	124		124.0	2039.1	70%	2202	72%
RJU	27.7.F		XX/2019 Article 5	0.5	n.a.	n.a.	n.a.	n.a.
RJU	27.7.F Total	0		0.5	n.a.	n.a.	n.a.	n.a.
RJU	27.7.G		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.7.G Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.7.H		XX/2019 Article 5	0.4	n.a.	n.a.	n.a.	n.a.
RJU	27.7.H Total	0		0.4	n.a.	n.a.	n.a.	n.a.
RJU	27.7.J		XX/2019 Article 5	0.0	3.2		3	
RJU	27.7.J Total	-		0.0	3.2		3	
RJU Total		145		145.1	2958.1	69%	3121	71%
RJY	27.6.A		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJY	27.6.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJY	27.7.E		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
RJY	27.7.E Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJY	27.7.G		XX/2019 Article 5	0.2	n.a.	n.a.	n.a.	n.a.
RJY	27.7.G Total			0.2	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		0						
RJY Total		0		0.2	n.a.	n.a.	n.a.	n.a.
SKA	27.6.A		XX/2019 Article 5	6.8	n.a.	n.a.	n.a.	n.a.
SKA	27.6.A Total	7		6.8	n.a.	n.a.	n.a.	n.a.
SKA	27.7.A		XX/2019 Article 5	1.4	n.a.	n.a.	n.a.	n.a.
SKA	27.7.A Total	1		1.4	n.a.	n.a.	n.a.	n.a.
SKA	27.7.D		XX/2019 Article 5	0.9	n.a.	n.a.	n.a.	n.a.
SKA	27.7.D Total	1		0.9	n.a.	n.a.	n.a.	n.a.
SKA	27.7.E		XX/2019 Article 5	2.6	n.a.	n.a.	n.a.	n.a.
SKA	27.7.E Total	3		2.6	n.a.	n.a.	n.a.	n.a.
SKA	27.7.F		XX/2019 Article 5	1.3	n.a.	n.a.	n.a.	n.a.
SKA	27.7.F Total	1		1.3	n.a.	n.a.	n.a.	n.a.
SKA	27.7.G		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
SKA	27.7.G Total	0		0.1	n.a.	n.a.	n.a.	n.a.
SKA	27.7.H		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
SKA	27.7.H Total	0		0.0	n.a.	n.a.	n.a.	n.a.
SKA	27.7.J		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
SKA	27.7.J Total	0		0.0	n.a.	n.a.	n.a.	n.a.
SKA Total		13		13.1	n.a.	n.a.	n.a.	n.a.
SOL	27.7.A		XX/2019 Article 8.g	13.2	0.5	100%	1	100%
SOL	27.7.A Total	36		13.2	0.5	100%	1	100%
SOL	27.7.D		XX/2019 Article 8.b	942.6	29.7	100%	30	100%
SOL	27.7.D		XX/2019 Article 8.c	652.6	95.3	100%	95	100%
SOL	27.7.D Total	2,317		1595.3	124.9	100%	125	100%
SOL	27.7.E		XX/2019 Article 8.b	143.9	0.0	4%	0	4%
SOL	27.7.E		XX/2019 Article 8.c	63.4	0.1	100%	0	100%
SOL	27.7.E Total	1,071		207.2	0.1	33%	0	33%
SOL	27.7.F		XX/2019 Article 8.b	2.7	n.a.	n.a.	n.a.	n.a.
SOL	27.7.F		XX/2019 Article 8.c	317.3	33.5	100%	33	100%
SOL	27.7.F Total	494		320.0	33.5	99%	33	99%
SOL	27.7.G		XX/2019 Article 8.b	0.2	n.a.	n.a.	n.a.	n.a.
SOL	27.7.G		XX/2019 Article 8.c	252.3	26.6	100%	27	100%
SOL	27.7.G Total	357		252.5	26.6	100%	27	100%
SOL	27.7.J		XX/2019 Article 8.g	4.7	n.a.	n.a.	n.a.	n.a.
SOL	27.7.J Total			4.7	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		68						
SOL Total		4,596		2392.9	185.6	94%	186	94%
SRX	27.6.B		XX/2019 Article 5	8.0	n.a.	n.a.	n.a.	n.a.
SRX	27.6.B Total	8		8.0	n.a.	n.a.	n.a.	n.a.
SRX	27.7.D		XX/2019 Article 5	16.3	n.a.	n.a.	n.a.	n.a.
SRX	27.7.D Total	16		16.3	n.a.	n.a.	n.a.	n.a.
SRX	27.7.E		XX/2019 Article 5	0.1	n.a.	n.a.	n.a.	n.a.
SRX	27.7.E Total	0		0.1	n.a.	n.a.	n.a.	n.a.
SRX	27.7.G		XX/2019 Article 5	0.6	n.a.	n.a.	n.a.	n.a.
SRX	27.7.G Total	1		0.6	n.a.	n.a.	n.a.	n.a.
SRX	27.7.H		XX/2019 Article 5	0.5	n.a.	n.a.	n.a.	n.a.
SRX	27.7.H Total	0		0.5	n.a.	n.a.	n.a.	n.a.
SRX	27.7.J		XX/2019 Article 5	0.4	n.a.	n.a.	n.a.	n.a.
SRX	27.7.J Total	0		0.4	n.a.	n.a.	n.a.	n.a.
SRX Total		26		25.9	n.a.	n.a.	n.a.	n.a.
TTR	27.7.E		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
TTR	27.7.E Total			0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		0						
TTR	27.7.J		XX/2019 Article 5	0.0	n.a.	n.a.	n.a.	n.a.
TTR	27.7.J Total	0		0.0	n.a.	n.a.	n.a.	n.a.
TTR Total		0		0.0	n.a.	n.a.	n.a.	n.a.
WHB	27.5.B		190/2018 Article 3a.a	16095.3	n.a.	n.a.	n.a.	n.a.
WHB	27.5.B Total	n.a.		16095.3	n.a.	n.a.	n.a.	n.a.
WHB	27.6.A		190/2018 Article 3a.a	151129.0	n.a.	n.a.	n.a.	n.a.
WHB	27.6.A Total	151,129		151129.0	n.a.	n.a.	n.a.	n.a.
WHB	27.6.B		190/2018 Article 3a.a	42921.3	n.a.	n.a.	n.a.	n.a.
WHB	27.6.B Total	42,921		42921.3	n.a.	n.a.	n.a.	n.a.
WHB	27.7.B		190/2018 Article 3a.a	4737.8	n.a.	n.a.	n.a.	n.a.
WHB	27.7.B Total	4,738		4737.8	n.a.	n.a.	n.a.	n.a.
WHB	27.7.C		190/2018 Article 3a.a	156711.3	n.a.	n.a.	n.a.	n.a.
WHB	27.7.C Total	162,785		156711.3	n.a.	n.a.	n.a.	n.a.
WHB	27.7.G		190/2018 Article 3a.a	2.0	n.a.	n.a.	n.a.	n.a.
WHB	27.7.G Total	3		2.0	n.a.	n.a.	n.a.	n.a.
WHB	27.7.H		190/2018 Article 3a.a	0.5	n.a.	n.a.	n.a.	n.a.
WHB	27.7.H Total			0.5	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		1						
WHB	27.7.J		190/2018 Article 3a.a	174.1	n.a.	n.a.	n.a.	n.a.
WHB	27.7.J Total	174		174.1	n.a.	n.a.	n.a.	n.a.
WHB	27.7.K		190/2018 Article 3a.a	8243.0	n.a.	n.a.	n.a.	n.a.
WHB	27.7.K Total	8,243		8243.0	n.a.	n.a.	n.a.	n.a.
WHB Total		369,995		380014.3	n.a.	n.a.	n.a.	n.a.
WHG	27.7.D		190/2018 Article 3a.c	16.7	n.a.	n.a.	n.a.	n.a.
WHG	27.7.D		XX/2019 Article 8.a	3245.2	3909.4	56%	3910	56%
WHG	27.7.D		XX/2019 Article 8.a	154.8	n.a.	n.a.	n.a.	n.a.
WHG	27.7.D		XX/2019 Article 8.a	44.6	137.2	98%	137	98%
WHG	27.7.D Total	3,552		3461.3	4046.6	54%	4047	54%
WHG Total		13,407		3461.3	4046.6	54%	4047	54%
BOC	27.7.B		XX/2019 Article 8.i	0.0	1.5		2	
BOC	27.7.B Total	17		0.0	1.5		2	
BOC	27.7.C		XX/2019 Article 8.i	0.0	30.5		31	
BOC	27.7.C Total	1		0.0	30.5		31	
BOC	27.7.G		XX/2019 Article 8.i	0.0	0.7		1	
BOC	27.7.G Total			0.0	0.7		1	

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		-						
BOC	27.7.H		XX/2019 Article 8.i	0.0	7.9		8	
BOC	27.7.H Total	43		0.0	7.9		8	
BOC	27.7.J		XX/2019 Article 8.i	0.0	134.4		134	
BOC	27.7.J Total	1		0.0	134.4		134	
BOC	27.7.K		XX/2019 Article 8.i	0.0	3.1		3	
BOC	27.7.K Total	-		0.0	3.1		3	
BOC Total		144		0.0	178.2		178	

Table 3. Overall landings and anticipated exemptions associated with species and Sub Regions reported to FDI for North Western Waters

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MON	27.8.A		DA XX/2019 Article 6.1.m	c	c	c	c	c
MON	27.8.A Total	2		c	c	c	c	c
MON	27.8.B		DA XX/2019 Article 6.1.m	50.7	10.5	100%	10	100%
MON	27.8.B Total	n.a.		50.7	10.5	100%	10	100%
MON	27.8.C		DA XX/2019 Article 6.1.m	8.2	0.3	11%	0	16%
MON	27.8.C		DA XX/2019 Article 6.1.n	349.6	1.8	12%	2	16%
MON	27.8.C Total	397		357.8	2.0	12%	3	16%
MON	27.8.D		DA XX/2019 Article 6.1.m	0.0	0.0		0	
MON	27.8.D Total	n.a.		0.0	0.0		0	
MON	27.9.A		DA XX/2019 Article 6.1.m	56.2	3.9	42%	4	43%
MON	27.9.A		DA XX/2019 Article 6.1.n	184.7	0.0	1%	0	3%
MON	27.9.A Total	255		240.9	3.9	10%	4	12%
MON Total		654		651.7	16.9	19%	18	21%
ALB	27.8.A		2018/188 Article 3.b	562.6	n.a.	n.a.	n.a.	n.a.
ALB	27.8.A Total	943		562.6	n.a.	n.a.	n.a.	n.a.
ALB	27.8.B		2018/188 Article 3.b	235.9	n.a.	n.a.	n.a.	n.a.
ALB	27.8.B Total	n.a.		235.9	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ALB	27.8.C		2018/188 Article 3.b	443.9	n.a.	n.a.	n.a.	n.a.
ALB	27.8.C Total	4,551		443.9	n.a.	n.a.	n.a.	n.a.
ALB	27.8.D		2018/188 Article 3.b	4342.2	n.a.	n.a.	n.a.	n.a.
ALB	27.8.D Total	n.a.		4342.2	n.a.	n.a.	n.a.	n.a.
ALB Total		5,510		5584.5	n.a.	n.a.	n.a.	n.a.
ANE	27.8.A		2018/188 Article 3.c	102.5	0.0	42%	0	42%
ANE	27.8.A		2018/188 Article 3.d	2267.1	n.a.	n.a.	n.a.	n.a.
ANE	27.8.A Total	3,055		2369.6	0.0	2%	0	2%
ANE	27.8.B		2018/188 Article 3.d	4453.6	n.a.	n.a.	n.a.	n.a.
ANE	27.8.B Total	n.a.		4453.6	n.a.	n.a.	n.a.	n.a.
ANE	27.8.C		2018/188 Article 3.d	23065.2	n.a.	n.a.	n.a.	n.a.
ANE	27.8.C Total	23,143		23065.2	n.a.	n.a.	n.a.	n.a.
ANE	27.8.D		2018/188 Article 3.d	8.2	n.a.	n.a.	n.a.	n.a.
ANE	27.8.D Total	n.a.		8.2	n.a.	n.a.	n.a.	n.a.
ANE	27.9.A		2018/188 Article 3.d	13183.2	0.9	32%	1	54%
ANE	27.9.A Total	13,229		13183.2	0.9	32%	1	54%
ANE	34.1.1		2018/188 Article 3.d	111.6	n.a.	n.a.	n.a.	n.a.
ANE	34.1.1 Total	n.a.		111.6	n.a.	n.a.	n.a.	n.a.
ANE	34.1.2		2018/188 Article 3.d	4.3	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ANE	34.1.2 Total	n.a.		4.3	n.a.	n.a.	n.a.	n.a.
ANE Total		39,427		43195.6	0.9	10%	1	17%
ANF	27.8.A		DA XX/2019 Article 6.1.m	393.5	n.a.	n.a.	n.a.	n.a.
ANF	27.8.A		DA XX/2019 Article 6.1.n	27.1	n.a.	n.a.	n.a.	n.a.
ANF	27.8.A Total	421		420.6	n.a.	n.a.	n.a.	n.a.
ANF	27.8.B		DA XX/2019 Article 6.1.m	453.5	n.a.	n.a.	n.a.	n.a.
ANF	27.8.B		DA XX/2019 Article 6.1.n	15.2	n.a.	n.a.	n.a.	n.a.
ANF	27.8.B Total	n.a.		468.7	n.a.	n.a.	n.a.	n.a.
ANF	27.8.C		DA XX/2019 Article 6.1.m	445.0	n.a.	n.a.	n.a.	n.a.
ANF	27.8.C		DA XX/2019 Article 6.1.n	326.2	n.a.	n.a.	n.a.	n.a.
ANF	27.8.C Total	785		771.3	n.a.	n.a.	n.a.	n.a.
ANF	27.8.D		DA XX/2019 Article 6.1.m	14.2	n.a.	n.a.	n.a.	n.a.
ANF	27.8.D		DA XX/2019 Article 6.1.n	3.9	n.a.	n.a.	n.a.	n.a.
ANF	27.8.D Total	n.a.		18.1	n.a.	n.a.	n.a.	n.a.
ANF	27.9.A		DA XX/2019 Article 6.1.m	187.2	n.a.	n.a.	n.a.	n.a.
ANF	27.9.A		DA XX/2019 Article 6.1.n	15.0	n.a.	n.a.	n.a.	n.a.
ANF	27.9.A Total	206		202.2	n.a.	n.a.	n.a.	n.a.
ANF	27.9.B		DA XX/2019 Article 6.1.m	0.0	n.a.	n.a.	n.a.	n.a.
ANF	27.9.B Total	0		0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ANF Total		1,412		1880.8	n.a.	n.a.	n.a.	n.a.
ANG	27.8.A		DA XX/2019 Article 6.1.m	0.8	n.a.	n.a.	n.a.	n.a.
ANG	27.8.A		DA XX/2019 Article 6.1.n	0.1	n.a.	n.a.	n.a.	n.a.
ANG	27.8.A Total	1		0.9	n.a.	n.a.	n.a.	n.a.
ANG	27.8.B		DA XX/2019 Article 6.1.m	0.6	n.a.	n.a.	n.a.	n.a.
ANG	27.8.B Total	n.a.		0.6	n.a.	n.a.	n.a.	n.a.
ANG	27.9.A		DA XX/2019 Article 6.1.n	c	c	n.a.	c	c
ANG	27.9.A Total	0		c	c	n.a.	c	c
ANG Total		1		1.5	0.0	n.a.	n.a.	n.a.
ANK	27.8.A		DA XX/2019 Article 6.1.m	c	c	c	c	c
ANK	27.8.A Total	4		c	c	c	c	c
ANK	27.8.B		DA XX/2019 Article 6.1.m	98.5	6.9	100%	7	100%
ANK	27.8.B		DA XX/2019 Article 6.1.n	0.0	0.0	n.a.	n.a.	n.a.
ANK	27.8.B Total	n.a.		98.5	6.9	100%	7	100%
ANK	27.8.C		DA XX/2019 Article 6.1.m	1.2	0.0	n.a.	n.a.	n.a.
ANK	27.8.C		DA XX/2019 Article 6.1.n	9.3	1.8	9%	12	58%
ANK	27.8.C Total	15		10.5	1.8	8%	12	51%
ANK	27.8.D		DA XX/2019 Article 6.1.m	0.0	0.0		0	

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
ANK	27.8.D		DA XX/2019 Article 6.1.n	0.0	n.a.	n.a.	n.a.	n.a.
ANK	27.8.D Total	n.a.		0.0	0.0	0%	0	0%
ANK	27.9.A		DA XX/2019 Article 6.1.m	58.3	1.1	38%	1	38%
ANK	27.9.A		DA XX/2019 Article 6.1.n	111.8	0.1	0%	0	0%
ANK	27.9.A Total	174		170.2	1.1	13%	1	13%
ANK Total		193		283.6	10.0	44%	21	46%
HKE	27.8.A		DA XX/2019 Article 6.1.a	3506.7	499.8	21%	500	52%
HKE	27.8.A Total	13,704		3506.7	499.8	21%	500	52%
HKE	27.8.B		DA XX/2019 Article 6.1.a	4300.1	662.2	77%	662	80%
HKE	27.8.B Total	n.a.		4300.1	662.2	77%	662	80%
HKE	27.8.C		DA XX/2019 Article 6.1.a	2077.6	1346.2	30%	1350	100%
HKE	27.8.C Total	5,143		2077.6	1346.2	30%	1350	100%
HKE	27.8.D		DA XX/2019 Article 6.1.a	95.2	3.7	65%	4	65%
HKE	27.8.D Total	n.a.		95.2	3.7	65%	4	65%
HKE	27.9.A		DA XX/2019 Article 6.1.a	1832.4	579.4	59%	579	99%
HKE	27.9.A Total	2,996		1832.4	579.4	59%	579	99%
HKE	27.9.B		DA XX/2019 Article 6.1.a	0.6	n.a.	n.a.	n.a.	n.a.
HKE	27.9.B Total	1		0.6	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HKE Total		21,842		11812.6	3091.3	49%	3095	78%
HMM	27.8.A		DA XX/2019 Article 6.1.e	390.9	n.a.	n.a.	n.a.	n.a.
HMM	27.8.A		DA XX/2019 Article 6.1.f	4.1	n.a.	n.a.	n.a.	n.a.
HMM	27.8.A		2018/188 Article 3.c	4.9	n.a.	n.a.	n.a.	n.a.
HMM	27.8.A		2018/188 Article 3.d	32.4	n.a.	n.a.	n.a.	n.a.
HMM	27.8.A Total	429		432.2	n.a.	n.a.	n.a.	n.a.
HMM	27.8.B		DA XX/2019 Article 6.1.e	15.7	n.a.	n.a.	n.a.	n.a.
HMM	27.8.B		DA XX/2019 Article 6.1.f	1.3	n.a.	n.a.	n.a.	n.a.
HMM	27.8.B		2018/188 Article 3.d	200.9	n.a.	n.a.	n.a.	n.a.
HMM	27.8.B Total	n.a.		217.9	n.a.	n.a.	n.a.	n.a.
HMM	27.8.C		DA XX/2019 Article 6.1.f	0.3	n.a.	n.a.	n.a.	n.a.
HMM	27.8.C		2018/188 Article 3.d	439.7	n.a.	n.a.	n.a.	n.a.
HMM	27.8.C Total	441		440.0	n.a.	n.a.	n.a.	n.a.
HMM	27.8.D		DA XX/2019 Article 6.1.e	0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.8.D Total	n.a.		0.1	n.a.	n.a.	n.a.	n.a.
HMM	27.9.A		DA XX/2019 Article 6.1.e	77.7	n.a.	n.a.	n.a.	n.a.
HMM	27.9.A		DA XX/2019 Article 6.1.f	5.4	n.a.	n.a.	n.a.	n.a.
HMM	27.9.A		2018/188 Article 3.d	115.1	n.a.	n.a.	n.a.	n.a.
HMM	27.9.A Total	206		198.2	n.a.	n.a.	n.a.	n.a.
HMM Total				1288.3	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		1,077						
HOM	27.10.A		2018/188 Article 3.d	c	c	c	c	c
HOM	27.10.A Total	n.a.		c	c	c	c	c
HOM	27.8.A		DA XX/2019 Article 6.1.e	1101.0	336.5	7%	336	22%
HOM	27.8.A		DA XX/2019 Article 6.1.f	35.8	n.a.	n.a.	n.a.	n.a.
HOM	27.8.A		2018/188 Article 3.c	765.1	n.a.	n.a.	n.a.	n.a.
HOM	27.8.A		2018/188 Article 3.d	1295.5	n.a.	n.a.	n.a.	n.a.
HOM	27.8.A Total	2,434		3197.4	336.5	2%	336	8%
HOM	27.8.B		DA XX/2019 Article 6.1.e	69.6	1398.2	17%	1398	39%
HOM	27.8.B		DA XX/2019 Article 6.1.f	9.0	n.a.	n.a.	n.a.	n.a.
HOM	27.8.B		2018/188 Article 3.c	3.9	n.a.	n.a.	n.a.	n.a.
HOM	27.8.B		2018/188 Article 3.d	310.9	n.a.	n.a.	n.a.	n.a.
HOM	27.8.B Total	n.a.		393.4	1398.2	3%	1398	7%
HOM	27.8.C		DA XX/2019 Article 6.1.e	417.6	57.2	16%	146	99%
HOM	27.8.C		DA XX/2019 Article 6.1.f	305.0	6.0	33%	7	41%
HOM	27.8.C		2018/188 Article 3.d	12931.3	n.a.	n.a.	n.a.	n.a.
HOM	27.8.C Total	13,954		13653.9	63.2	1%	154	4%
HOM	27.8.D		DA XX/2019 Article 6.1.e	3.5	12.8	0%	13	0%
HOM	27.8.D		DA XX/2019 Article 6.1.f	0.0	n.a.	n.a.	n.a.	n.a.
HOM	27.8.D		2018/188 Article 3.d	4.3	n.a.	n.a.	n.a.	n.a.
HOM	27.8.D Total	n.a.		7.8	12.8	0%	13	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
HOM	27.9.A		DA XX/2019 Article 6.1.e	8249.0	170.6	1%	6087	62%
HOM	27.9.A		DA XX/2019 Article 6.1.f	865.8	0.7	3%	3	11%
HOM	27.9.A		2018/188 Article 3.d	15211.2	29.1	35%	37	47%
HOM	27.9.A Total	24,946		24326.0	200.4	22%	6127	51%
HOM	27.9.B		DA XX/2019 Article 6.1.e	0.0	n.a.	n.a.	n.a.	n.a.
HOM	27.9.B Total	3		0.0	n.a.	n.a.	n.a.	n.a.
HOM	34.1.1		2018/188 Article 3.d	0.0	n.a.	n.a.	n.a.	n.a.
HOM	34.1.1 Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
HOM	34.1.2		DA XX/2019 Article 6.1.f	0.2	n.a.	n.a.	n.a.	n.a.
HOM	34.1.2		2018/188 Article 3.d	55.1	n.a.	n.a.	n.a.	n.a.
HOM	34.1.2 Total	n.a.		55.3	n.a.	n.a.	n.a.	n.a.
HOM Total		41,336		41633.9	2011.0	14%	8029	32%
JAD	27.8.C		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
JAD	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
JAD Total		0		0.0	n.a.	n.a.	n.a.	n.a.
JAX	27.8.A		DA XX/2019 Article 6.1.e	274.0	n.a.	n.a.	n.a.	n.a.
JAX	27.8.A		DA XX/2019 Article 6.1.f	0.2	n.a.	n.a.	n.a.	n.a.
JAX	27.8.A		2018/188 Article 3.c	0.6	n.a.	n.a.	n.a.	n.a.
JAX	27.8.A		2018/188 Article 3.d	72.7	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
JAX	27.8.A Total	347		347.4	n.a.	n.a.	n.a.	n.a.
JAX	27.8.B		DA XX/2019 Article 6.1.e	63.9	n.a.	n.a.	n.a.	n.a.
JAX	27.8.B		DA XX/2019 Article 6.1.f	0.6	n.a.	n.a.	n.a.	n.a.
JAX	27.8.B		2018/188 Article 3.c	1.3	n.a.	n.a.	n.a.	n.a.
JAX	27.8.B		2018/188 Article 3.d	178.7	n.a.	n.a.	n.a.	n.a.
JAX	27.8.B Total	n.a.		244.4	n.a.	n.a.	n.a.	n.a.
JAX	27.8.C		DA XX/2019 Article 6.1.e	2400.6	n.a.	n.a.	n.a.	n.a.
JAX	27.8.C		DA XX/2019 Article 6.1.f	143.0	n.a.	n.a.	n.a.	n.a.
JAX	27.8.C		2018/188 Article 3.c	0.0	n.a.	n.a.	n.a.	n.a.
JAX	27.8.C		2018/188 Article 3.d	5267.1	n.a.	n.a.	n.a.	n.a.
JAX	27.8.C Total	7,857		7810.7	n.a.	n.a.	n.a.	n.a.
JAX	27.8.D		DA XX/2019 Article 6.1.e	c	c	n.a.	c	c
JAX	27.8.D		DA XX/2019 Article 6.1.f	0.0	n.a.	n.a.	n.a.	n.a.
JAX	27.8.D Total	n.a.		1.5	n.a.	n.a.	n.a.	n.a.
JAX	27.9.A		DA XX/2019 Article 6.1.e	2912.8	n.a.	n.a.	n.a.	n.a.
JAX	27.9.A		DA XX/2019 Article 6.1.f	60.7	n.a.	n.a.	n.a.	n.a.
JAX	27.9.A		2018/188 Article 3.d	3954.1	n.a.	n.a.	n.a.	n.a.
JAX	27.9.A Total	6,977		6927.7	n.a.	n.a.	n.a.	n.a.
JAX	34.1.2		2018/188 Article 3.d	117.8	n.a.	n.a.	n.a.	n.a.
JAX	34.1.2 Total	n.a.		117.8	n.a.	n.a.	n.a.	n.a.
JAX Total				15449.4	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		15,181						
JDP	27.8.A		DA XX/2019 Article 4.1	2.6	n.a.	n.a.	n.a.	n.a.
JDP	27.8.A Total	3		2.6	n.a.	n.a.	n.a.	n.a.
JDP	27.8.B		DA XX/2019 Article 4.1	1.9	n.a.	n.a.	n.a.	n.a.
JDP	27.8.B Total	n.a.		1.9	n.a.	n.a.	n.a.	n.a.
JDP	27.8.D		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
JDP	27.8.D Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
JDP	27.9.A		DA XX/2019 Article 4.1	1.0	n.a.	n.a.	n.a.	n.a.
JDP	27.9.A Total	1		1.0	n.a.	n.a.	n.a.	n.a.
JDP Total		4		5.5	n.a.	n.a.	n.a.	n.a.
LDB	27.8.B		DA XX/2019 Article 6.1.i	0.0	1.5		2	
LDB	27.8.B Total	n.a.		0.0	1.5		2	
LDB	27.8.C		DA XX/2019 Article 6.1.i	0.0	62.4		62	
LDB	27.8.C		DA XX/2019 Article 6.1.j	0.1	0.0	15%	0	15%
LDB	27.8.C Total	0		0.1	62.4	15%	62	15%
LDB	27.8.D		DA XX/2019 Article 6.1.i	0.0	0.0		0	
LDB	27.8.D Total	n.a.		0.0	0.0		0	
LDB	27.9.A		DA XX/2019 Article 6.1.i	29.2	30.0	0%	30	0%
LDB	27.9.A		DA XX/2019 Article 6.1.j	1.2	0.0	0%	0	0%
LDB	27.9.A Total			30.4	30.0	0%	30	0%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		31						
LDB Total		31		30.5	93.9	0%	94	0%
LEZ	27.8.A		DA XX/2019 Article 6.1.i	489.5	0.2	0%	0	0%
LEZ	27.8.A		DA XX/2019 Article 6.1.j	17.1	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.A Total	507		506.6	0.2	0%	0	0%
LEZ	27.8.B		DA XX/2019 Article 6.1.i	181.2	2.8	8%	3	8%
LEZ	27.8.B		DA XX/2019 Article 6.1.j	3.9	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.B Total	n.a.		185.1	2.8	7%	3	7%
LEZ	27.8.C		DA XX/2019 Article 6.1.i	602.1	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.C		DA XX/2019 Article 6.1.j	11.6	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.C Total	617		613.7	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.D		DA XX/2019 Article 6.1.i	14.6	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.D		DA XX/2019 Article 6.1.j	0.7	n.a.	n.a.	n.a.	n.a.
LEZ	27.8.D Total	n.a.		15.3	n.a.	n.a.	n.a.	n.a.
LEZ	27.9.A		DA XX/2019 Article 6.1.i	242.5	n.a.	n.a.	n.a.	n.a.
LEZ	27.9.A		DA XX/2019 Article 6.1.j	1.9	n.a.	n.a.	n.a.	n.a.
LEZ	27.9.A Total	245		244.3	n.a.	n.a.	n.a.	n.a.
LEZ Total		1,368		1565.1	3.0	1%	3	1%
MAC	27.8.A		DA XX/2019 Article 6.1.g	3414.1	27.7	4%	28	13%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MAC	27.8.A		DA XX/2019 Article 6.1.h	37.4	n.a.	n.a.	n.a.	n.a.
MAC	27.8.A		2018/188 Article 3.c	2591.7	n.a.	n.a.	n.a.	n.a.
MAC	27.8.A		2018/188 Article 3.d	76.3	n.a.	n.a.	n.a.	n.a.
MAC	27.8.A Total	3,553		6119.4	27.7	2%	28	7%
MAC	27.8.B		DA XX/2019 Article 6.1.g	1986.8	1058.1	5%	1058	14%
MAC	27.8.B		DA XX/2019 Article 6.1.h	46.9	n.a.	n.a.	n.a.	n.a.
MAC	27.8.B		2018/188 Article 3.c	440.6	n.a.	n.a.	n.a.	n.a.
MAC	27.8.B		2018/188 Article 3.d	742.7	n.a.	n.a.	n.a.	n.a.
MAC	27.8.B Total	n.a.		3217.0	1058.1	3%	1058	9%
MAC	27.8.C		DA XX/2019 Article 6.1.g	11883.6	300.1	2%	2792	95%
MAC	27.8.C		DA XX/2019 Article 6.1.h	194.1	23.5	41%	52	62%
MAC	27.8.C		2018/188 Article 3.c	13.7	n.a.	n.a.	1	100%
MAC	27.8.C		2018/188 Article 3.d	8484.3	n.a.	n.a.	n.a.	n.a.
MAC	27.8.C Total	31,089		20575.7	324.6	2%	2846	56%
MAC	27.8.D		DA XX/2019 Article 6.1.g	94.3	10.5	0%	10	0%
MAC	27.8.D		DA XX/2019 Article 6.1.h	0.2	n.a.	n.a.	n.a.	n.a.
MAC	27.8.D		2018/188 Article 3.c	84.3	n.a.	n.a.	n.a.	n.a.
MAC	27.8.D Total	n.a.		178.8	10.5	0%	10	0%
MAC	27.9.A		DA XX/2019 Article 6.1.g	1484.9	179.4	11%	629	81%
MAC	27.9.A		DA XX/2019 Article 6.1.h	183.2	2.6	1%	27	17%
MAC	27.9.A		2018/188 Article 3.d	968.7	10.2	21%	17	37%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MAC	27.9.A Total	2,769		2636.8	192.1	14%	674	60%
MAC	34.1.1		2018/188 Article 3.d	0.3	n.a.	n.a.	n.a.	n.a.
MAC	34.1.1 Total	n.a.		0.3	n.a.	n.a.	n.a.	n.a.
MAC	34.1.2		2018/188 Article 3.d	0.3	n.a.	n.a.	n.a.	n.a.
MAC	34.1.2 Total	n.a.		0.3	n.a.	n.a.	n.a.	n.a.
MAC Total		37,411		32728.4	1613.1	3%	4615	42%
MEG	27.8.A		DA XX/2019 Article 6.1.i	1183.7	n.a.	n.a.	n.a.	n.a.
MEG	27.8.A		DA XX/2019 Article 6.1.j	4.2	n.a.	n.a.	n.a.	n.a.
MEG	27.8.A Total	1,188		1187.9	n.a.	n.a.	n.a.	n.a.
MEG	27.8.B		DA XX/2019 Article 6.1.i	33.0	13.2	0%	13	0%
MEG	27.8.B		DA XX/2019 Article 6.1.j	0.5	0.0	n.a.	n.a.	n.a.
MEG	27.8.B Total	n.a.		33.5	13.2	0%	13	0%
MEG	27.8.C		DA XX/2019 Article 6.1.i	0.6	24.4	59%	27	79%
MEG	27.8.C		DA XX/2019 Article 6.1.j	0.0	n.a.	n.a.	n.a.	n.a.
MEG	27.8.C Total	1		0.6	24.4	58%	27	79%
MEG	27.8.D		DA XX/2019 Article 6.1.i	39.5	0.1	0%	0	0%
MEG	27.8.D		DA XX/2019 Article 6.1.j	0.0	n.a.	n.a.	n.a.	n.a.
MEG	27.8.D Total	n.a.		39.6	0.1	0%	0	0%
MEG	27.9.A		DA XX/2019 Article 6.1.i	38.7	12.4	0%	12	0%
MEG	27.9.A		DA XX/2019 Article 6.1.j	3.7	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
MEG	27.9.A Total	43		42.3	12.4	0%	12	0%
MEG Total		1,231		1303.9	50.1	0%	53	0%
MNZ	27.8.A		DA XX/2019 Article 6.1.m	3381.6	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.A		DA XX/2019 Article 6.1.n	826.2	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.A Total	4,217		4207.8	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.B		DA XX/2019 Article 6.1.m	599.4	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.B		DA XX/2019 Article 6.1.n	473.0	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.B Total	n.a.		1072.3	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.C		DA XX/2019 Article 6.1.m	12.0	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.C		DA XX/2019 Article 6.1.n	38.9	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.C Total	59		50.9	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.D		DA XX/2019 Article 6.1.m	207.8	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.D		DA XX/2019 Article 6.1.n	224.4	n.a.	n.a.	n.a.	n.a.
MNZ	27.8.D Total	n.a.		432.3	n.a.	n.a.	n.a.	n.a.
MNZ	27.9.A		DA XX/2019 Article 6.1.m	24.9	n.a.	n.a.	n.a.	n.a.
MNZ	27.9.A		DA XX/2019 Article 6.1.n	5.6	n.a.	n.a.	n.a.	n.a.
MNZ	27.9.A Total	31		30.4	n.a.	n.a.	n.a.	n.a.
MNZ	27.9.B		DA XX/2019 Article 6.1.m	0.0	n.a.	n.a.	n.a.	n.a.
MNZ	27.9.B Total			0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		0						
MNZ Total		4,307		5793.7	n.a.	n.a.	n.a.	n.a.
NEP	27.8.A		DA XX/2019 Article 3	2102.2	n.a.	n.a.	n.a.	n.a.
NEP	27.8.A Total	2,107		2102.2	n.a.	n.a.	n.a.	n.a.
NEP	27.8.B		DA XX/2019 Article 3	68.3	n.a.	n.a.	n.a.	n.a.
NEP	27.8.B Total	n.a.		68.3	n.a.	n.a.	n.a.	n.a.
NEP	27.8.C		DA XX/2019 Article 3	2.2	n.a.	n.a.	n.a.	n.a.
NEP	27.8.C Total	2		2.2	n.a.	n.a.	n.a.	n.a.
NEP	27.8.D		DA XX/2019 Article 3	0.2	n.a.	n.a.	n.a.	n.a.
NEP	27.8.D Total	n.a.		0.2	n.a.	n.a.	n.a.	n.a.
NEP	27.9.A		DA XX/2019 Article 3	328.2	3.1	17%	3	17%
NEP	27.9.A Total	338		328.2	3.1	17%	3	17%
NEP	27.9.B		DA XX/2019 Article 3	0.5	n.a.	n.a.	n.a.	n.a.
NEP	27.9.B Total	1		0.5	n.a.	n.a.	n.a.	n.a.
NEP Total		2,447		2501.7	3.1	2%	3	2%
PLE	27.8.A		DA XX/2019 Article 6.1.k	45.9	0.5	79%	0	89%
PLE	27.8.A		DA XX/2019 Article 6.1.l	39.0	0.2	100%	0	100%
PLE	27.8.A Total	86		84.9	0.6	88%	1	94%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
PLE	27.8.B		DA XX/2019 Article 6.1.k	1.9	0.0	63%	0	63%
PLE	27.8.B		DA XX/2019 Article 6.1.l	4.0	0.9	80%	1	81%
PLE	27.8.B Total	n.a.		6.0	0.9	74%	1	75%
PLE	27.8.C		DA XX/2019 Article 6.1.k	0.0	n.a.	n.a.	n.a.	n.a.
PLE	27.8.C		DA XX/2019 Article 6.1.l	0.6	n.a.	n.a.	n.a.	n.a.
PLE	27.8.C Total	1		0.7	n.a.	n.a.	n.a.	n.a.
PLE	27.8.D		DA XX/2019 Article 6.1.k	0.0	n.a.	n.a.	n.a.	n.a.
PLE	27.8.D		DA XX/2019 Article 6.1.l	0.0	n.a.	n.a.	n.a.	n.a.
PLE	27.8.D Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
PLE	27.9.A		DA XX/2019 Article 6.1.k	1.2	n.a.	n.a.	n.a.	n.a.
PLE	27.9.A		DA XX/2019 Article 6.1.l	32.9	n.a.	n.a.	n.a.	n.a.
PLE	27.9.A Total	37		34.1	n.a.	n.a.	n.a.	n.a.
PLE Total		124		125.7	1.5	63%	2	67%
POL	27.8.A		DA XX/2019 Article 6.1.q	100.1	0.0	55%	0	55%
POL	27.8.A		DA XX/2019 Article 6.1.r	703.3	5.2	95%	5	96%
POL	27.8.A Total	1,212		803.4	5.2	90%	5	91%
POL	27.8.B		DA XX/2019 Article 6.1.q	4.7	9.3	39%	9	45%
POL	27.8.B		DA XX/2019 Article 6.1.r	29.8	0.0	92%	0	92%
POL	27.8.B Total	n.a.		34.6	9.3	85%	9	85%
POL	27.8.C		DA XX/2019 Article 6.1.q	1.3	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
POL	27.8.C		DA XX/2019 Article 6.1.r	38.0	n.a.	n.a.	n.a.	n.a.
POL	27.8.C Total	132		39.3	n.a.	n.a.	n.a.	n.a.
POL	27.8.D		DA XX/2019 Article 6.1.q	1.3	0.0	0%	0	0%
POL	27.8.D		DA XX/2019 Article 6.1.r	0.4	n.a.	n.a.	n.a.	n.a.
POL	27.8.D Total	n.a.		1.7	0.0	0%	0	0%
POL	27.9.A		DA XX/2019 Article 6.1.q	2.5	n.a.	n.a.	n.a.	n.a.
POL	27.9.A		DA XX/2019 Article 6.1.r	57.5	n.a.	n.a.	n.a.	n.a.
POL	27.9.A Total	159		60.0	n.a.	n.a.	n.a.	n.a.
POL	27.9.B		DA XX/2019 Article 6.1.r	c	c	c	c	c
POL	27.9.B Total	0		c	c	c	c	c
POL Total		1,503		939.0	14.5	80%	14	81%
RJA	27.8.A		DA XX/2019 Article 4.1	0.1	n.a.	n.a.	n.a.	n.a.
RJA	27.8.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJA	27.8.B		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJA	27.8.B Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
RJA	27.9.A		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJA	27.9.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJA Total		0		0.1	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJB	27.8.A		DA XX/2019 Article 4.1	0.3	n.a.	n.a.	n.a.	n.a.
RJB	27.8.A Total	0		0.3	n.a.	n.a.	n.a.	n.a.
RJB	27.8.C		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJB	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJB Total		0		0.3	n.a.	n.a.	n.a.	n.a.
RJC	27.8.A		DA XX/2019 Article 4.1	170.6	12.0	70%	12	79%
RJC	27.8.A Total	171		170.6	12.0	70%	12	79%
RJC	27.8.B		DA XX/2019 Article 4.1	98.2	2.8	21%	3	22%
RJC	27.8.B Total	n.a.		98.2	2.8	21%	3	22%
RJC	27.8.C		DA XX/2019 Article 4.1	249.0	27.6	62%	41	69%
RJC	27.8.C Total	249		249.0	27.6	62%	41	69%
RJC	27.8.D		DA XX/2019 Article 4.1	1.1	n.a.	n.a.	n.a.	n.a.
RJC	27.8.D Total	n.a.		1.1	n.a.	n.a.	n.a.	n.a.
RJC	27.9.A		DA XX/2019 Article 4.1	905.7	13.0	12%	53	31%
RJC	27.9.A Total	906		905.7	13.0	12%	53	31%
RJC	27.9.B		DA XX/2019 Article 4.1	2.5	n.a.	n.a.	n.a.	n.a.
RJC	27.9.B Total	3		2.5	n.a.	n.a.	n.a.	n.a.
RJC Total				1427.1	55.4	28%	108	42%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
		1,328						
RJE	27.8.A		DA XX/2019 Article 4.1	21.8	n.a.	n.a.	n.a.	n.a.
RJE	27.8.A Total	22		21.8	n.a.	n.a.	n.a.	n.a.
RJE	27.8.B		DA XX/2019 Article 4.1	10.7	n.a.	n.a.	n.a.	n.a.
RJE	27.8.B Total	n.a.		10.7	n.a.	n.a.	n.a.	n.a.
RJE	27.8.C		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJE	27.8.C Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJE	27.8.D		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJE	27.8.D Total	n.a.		0.2	n.a.	n.a.	n.a.	n.a.
RJE	27.9.A		DA XX/2019 Article 4.1	51.7	n.a.	n.a.	n.a.	n.a.
RJE	27.9.A Total	52		51.7	n.a.	n.a.	n.a.	n.a.
RJE Total		74		84.5	n.a.	n.a.	n.a.	n.a.
RJF	27.8.A		DA XX/2019 Article 4.1	28.7	n.a.	n.a.	n.a.	n.a.
RJF	27.8.A Total	29		28.7	n.a.	n.a.	n.a.	n.a.
RJF	27.8.B		DA XX/2019 Article 4.1	0.1	n.a.	n.a.	n.a.	n.a.
RJF	27.8.B Total	n.a.		0.1	n.a.	n.a.	n.a.	n.a.
RJF	27.8.C		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJF	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJF	27.8.D		DA XX/2019 Article 4.1	2.6	n.a.	n.a.	n.a.	n.a.
RJF	27.8.D Total	n.a.		2.6	n.a.	n.a.	n.a.	n.a.
RJF Total		29		31.4	n.a.	n.a.	n.a.	n.a.
RJG	27.9.A		DA XX/2019 Article 4.1	0.5	n.a.	n.a.	n.a.	n.a.
RJG	27.9.A Total	1		0.5	n.a.	n.a.	n.a.	n.a.
RJG Total		1		0.5	n.a.	n.a.	n.a.	n.a.
RJH	27.8.A		DA XX/2019 Article 4.1	161.4	n.a.	n.a.	n.a.	n.a.
RJH	27.8.A Total	161		161.4	n.a.	n.a.	n.a.	n.a.
RJH	27.8.B		DA XX/2019 Article 4.1	1.2	0.4	0%	0	0%
RJH	27.8.B Total	n.a.		1.2	0.4	0%	0	0%
RJH	27.8.C		DA XX/2019 Article 4.1	0.9	n.a.	n.a.	n.a.	n.a.
RJH	27.8.C Total	1		0.9	n.a.	n.a.	n.a.	n.a.
RJH	27.8.D		DA XX/2019 Article 4.1	0.1	n.a.	n.a.	n.a.	n.a.
RJH	27.8.D Total	n.a.		0.1	n.a.	n.a.	n.a.	n.a.
RJH	27.9.A		DA XX/2019 Article 4.1	153.8	0.2	0%	0	0%
RJH	27.9.A Total	154		153.8	0.2	0%	0	0%
RJH	27.9.B		DA XX/2019 Article 4.1	c	c	c	c	c
RJH	27.9.B Total	0		c	c	c	c	c

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJH Total		316		317.5	0.6	0%	1	0%
RJI	27.8.A		DA XX/2019 Article 4.1	17.6	n.a.	n.a.	n.a.	n.a.
RJI	27.8.A Total	18		17.6	n.a.	n.a.	n.a.	n.a.
RJI	27.8.B		DA XX/2019 Article 4.1	3.0	n.a.	n.a.	n.a.	n.a.
RJI	27.8.B Total	n.a.		3.0	n.a.	n.a.	n.a.	n.a.
RJI	27.8.C		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJI	27.8.C Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJI	27.8.D		DA XX/2019 Article 4.1	2.8	n.a.	n.a.	n.a.	n.a.
RJI	27.8.D Total	n.a.		2.8	n.a.	n.a.	n.a.	n.a.
RJI	27.9.A		DA XX/2019 Article 4.1	8.0	n.a.	n.a.	n.a.	n.a.
RJI	27.9.A Total	8		8.0	n.a.	n.a.	n.a.	n.a.
RJI Total		26		31.6	n.a.	n.a.	n.a.	n.a.
RJM	27.8.A		DA XX/2019 Article 4.1	170.4	n.a.	n.a.	n.a.	n.a.
RJM	27.8.A Total	170		170.4	n.a.	n.a.	n.a.	n.a.
RJM	27.8.B		DA XX/2019 Article 4.1	1.3	n.a.	n.a.	n.a.	n.a.
RJM	27.8.B Total	n.a.		1.3	n.a.	n.a.	n.a.	n.a.
RJM	27.8.C		DA XX/2019 Article 4.1	43.8	5.4	22%	15	39%
RJM	27.8.C Total	44		43.8	5.4	22%	15	39%

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJM	27.8.D		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJM	27.8.D Total	n.a.		0.2	n.a.	n.a.	n.a.	n.a.
RJM	27.9.A		DA XX/2019 Article 4.1	62.4	2.4	0%	8	1%
RJM	27.9.A Total	62		62.4	2.4	0%	8	1%
RJM Total		277		278.1	7.8	3%	23	6%
RJN	27.8.A		DA XX/2019 Article 4.1	880.4	210.0	61%	210	64%
RJN	27.8.A		DA XX/2019 Article 4.4	16.3	n.a.	n.a.	n.a.	n.a.
RJN	27.8.A		DA XX/2019 Article 4.4	855.5	210.0	63%	210	66%
RJN	27.8.A Total	880		1752.2	420.0	61%	420	64%
RJN	27.8.B		DA XX/2019 Article 4.1	117.7	43.6	7%	44	7%
RJN	27.8.B		DA XX/2019 Article 4.4	8.6	n.a.	n.a.	n.a.	n.a.
RJN	27.8.B		DA XX/2019 Article 4.4	107.7	43.6	8%	44	8%
RJN	27.8.B Total	n.a.		234.1	87.1	7%	87	7%
RJN	27.8.C		DA XX/2019 Article 4.1	22.6	5.1	66%	5	67%
RJN	27.8.C		DA XX/2019 Article 4.4	3.5	0.0	28%	0	29%
RJN	27.8.C		DA XX/2019 Article 4.4	16.1	4.9	76%	5	76%
RJN	27.8.C Total	23		42.1	10.1	66%	10	67%
RJN	27.8.D		DA XX/2019 Article 4.1	41.1	n.a.	n.a.	n.a.	n.a.
RJN	27.8.D		DA XX/2019 Article 4.4	0.1	n.a.	n.a.	n.a.	n.a.
RJN	27.8.D		DA XX/2019 Article 4.4	40.9	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJN	27.8.D Total	n.a.		82.0	n.a.	n.a.	n.a.	n.a.
RJN	27.9.A		DA XX/2019 Article 4.1	12.2	15.9	0%	16	0%
RJN	27.9.A		DA XX/2019 Article 4.4	6.4	0.0	0%	0	0%
RJN	27.9.A Total	12		18.6	15.9	0%	16	0%
RJN Total		915		2129.0	533.0	53%	533	55%
RJO	27.8.A		DA XX/2019 Article 4.1	0.3	n.a.	n.a.	n.a.	n.a.
RJO	27.8.A Total	0		0.3	n.a.	n.a.	n.a.	n.a.
RJO	27.8.B		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.8.B Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.8.C		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJO	27.8.D		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJO	27.8.D Total	n.a.		0.2	n.a.	n.a.	n.a.	n.a.
RJO	27.9.A		DA XX/2019 Article 4.1	36.6	n.a.	n.a.	n.a.	n.a.
RJO	27.9.A Total	37		36.6	n.a.	n.a.	n.a.	n.a.
RJO	27.9.B		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJO	27.9.B Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJO Total		37		37.4	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJR	27.8.A		DA XX/2019 Article 4.1	0.1	n.a.	n.a.	n.a.	n.a.
RJR	27.8.A Total	0		0.1	n.a.	n.a.	n.a.	n.a.
RJR	27.8.B		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.8.B Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.8.C		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.8.D		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.8.D Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
RJR	27.9.A		DA XX/2019 Article 4.1	0.2	n.a.	n.a.	n.a.	n.a.
RJR	27.9.A Total	0		0.2	n.a.	n.a.	n.a.	n.a.
RJR Total		0		0.3	n.a.	n.a.	n.a.	n.a.
RJU	27.8.A		DA XX/2019 Article 4.1	12.8	75.2	84%	75	91%
RJU	27.8.A Total	13		12.8	75.2	84%	75	91%
RJU	27.8.B		DA XX/2019 Article 4.1	4.2	56.2	76%	56	96%
RJU	27.8.B Total	n.a.		4.2	56.2	76%	56	96%
RJU	27.8.C		DA XX/2019 Article 4.1	9.5	n.a.	n.a.	n.a.	n.a.
RJU	27.8.C Total	9		9.5	n.a.	n.a.	n.a.	n.a.
RJU	27.8.D		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
RJU	27.8.D Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
RJU	27.9.A		DA XX/2019 Article 4.1	50.2	0.0	0%	0	0%
RJU	27.9.A Total	50		50.2	0.0	0%	0	0%
RJU Total		72		76.7	131.5	18%	131	20%
SBR	27.10.A		DA XX/2019 Article 4.5	441.8	4.4	9%	5	14%
SBR	27.10.A Total	n.a.		441.8	4.4	9%	5	14%
SBR	27.8.A		DA XX/2019 Article 4.5	16.8	n.a.	n.a.	n.a.	n.a.
SBR	27.8.A Total	22		16.8	n.a.	n.a.	n.a.	n.a.
SBR	27.8.B		DA XX/2019 Article 4.5	5.0	n.a.	n.a.	n.a.	n.a.
SBR	27.8.B Total	n.a.		5.0	n.a.	n.a.	n.a.	n.a.
SBR	27.8.C		DA XX/2019 Article 4.5	55.5	n.a.	n.a.	n.a.	n.a.
SBR	27.8.C Total	79		55.5	n.a.	n.a.	n.a.	n.a.
SBR	27.8.D		DA XX/2019 Article 4.5	5.7	n.a.	n.a.	n.a.	n.a.
SBR	27.8.D Total	n.a.		5.7	n.a.	n.a.	n.a.	n.a.
SBR	27.9.A		DA XX/2019 Article 4.5	46.8	n.a.	n.a.	n.a.	n.a.
SBR	27.9.A Total	93		46.8	n.a.	n.a.	n.a.	n.a.
SBR Total		194		571.6	4.4	7%	5	11%
SKA	27.8.A		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
SKA	27.8.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
SKA	27.8.B		DA XX/2019 Article 4.1	0.1	n.a.	n.a.	n.a.	n.a.
SKA	27.8.B Total	n.a.		0.1	n.a.	n.a.	n.a.	n.a.
SKA	27.8.C		DA XX/2019 Article 4.1	179.5	n.a.	n.a.	n.a.	n.a.
SKA	27.8.C Total	180		179.5	n.a.	n.a.	n.a.	n.a.
SKA	27.9.A		DA XX/2019 Article 4.1	201.2	n.a.	n.a.	n.a.	n.a.
SKA	27.9.A Total	201		201.2	n.a.	n.a.	n.a.	n.a.
SKA Total		381		380.9	n.a.	n.a.	n.a.	n.a.
SOL	27.8.A		DA XX/2019 Article 6.1.b	519.3	4.2	6%	4	6%
SOL	27.8.A		DA XX/2019 Article 6.1.c	1310.4	n.a.	n.a.	n.a.	n.a.
SOL	27.8.A Total	1,853		1829.7	4.2	2%	4	2%
SOL	27.8.B		DA XX/2019 Article 6.1.b	524.5	38.3	51%	38	51%
SOL	27.8.B		DA XX/2019 Article 6.1.c	1089.5	n.a.	n.a.	n.a.	n.a.
SOL	27.8.B Total	n.a.		1614.0	38.3	16%	38	16%
SOL Total		2,458		3443.7	42.5	9%	43	9%
SRX	27.8.B		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
SRX	27.8.B Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
SRX	27.8.C		DA XX/2019 Article 4.1	22.2	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
SRX	27.8.C Total	22		22.2	n.a.	n.a.	n.a.	n.a.
SRX	27.9.A		DA XX/2019 Article 4.1	11.1	n.a.	n.a.	n.a.	n.a.
SRX	27.9.A Total	11		11.1	n.a.	n.a.	n.a.	n.a.
SRX Total		33		33.3	n.a.	n.a.	n.a.	n.a.
TTO	27.9.A		DA XX/2019 Article 4.1	0.4	n.a.	n.a.	n.a.	n.a.
TTO	27.9.A Total	0		0.4	n.a.	n.a.	n.a.	n.a.
TTO Total		0		0.4	n.a.	n.a.	n.a.	n.a.
TTR	27.8.A		DA XX/2019 Article 4.1	11.5	n.a.	n.a.	n.a.	n.a.
TTR	27.8.A Total	11		11.5	n.a.	n.a.	n.a.	n.a.
TTR	27.8.B		DA XX/2019 Article 4.1	4.8	n.a.	n.a.	n.a.	n.a.
TTR	27.8.B Total	n.a.		4.8	n.a.	n.a.	n.a.	n.a.
TTR	27.8.D		DA XX/2019 Article 4.1	0.0	n.a.	n.a.	n.a.	n.a.
TTR	27.8.D Total	n.a.		0.0	n.a.	n.a.	n.a.	n.a.
TTR	27.9.A		DA XX/2019 Article 4.1	8.8	n.a.	n.a.	n.a.	n.a.
TTR	27.9.A Total	9		8.8	n.a.	n.a.	n.a.	n.a.
TTR Total		20		25.1	n.a.	n.a.	n.a.	n.a.
WHB	27.8.A		2018/188 Article 3.a	1.2	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
WHB	27.8.A Total	7		1.2	n.a.	n.a.	n.a.	n.a.
WHB	27.8.B		2018/188 Article 3.a	0.9	n.a.	n.a.	n.a.	n.a.
WHB	27.8.B Total	n.a.		0.9	n.a.	n.a.	n.a.	n.a.
WHB	27.8.C		2018/188 Article 3.a	0.2	0.0	100%	0	100%
WHB	27.8.C Total	19,261		0.2	0.0	100%	0	100%
WHB	27.8.D		2018/188 Article 3.a	0.7	n.a.	n.a.	n.a.	n.a.
WHB	27.8.D Total	n.a.		0.7	n.a.	n.a.	n.a.	n.a.
WHB Total		24,959		2.9	0.0	7%	0	7%
WHG	27.8.A		DA XX/2019 Article 6.1.o	502.2	67.2	24%	67	42%
WHG	27.8.A		DA XX/2019 Article 6.1.p	217.7	263.5	99%	263	100%
WHG	27.8.A Total	1,165		719.9	330.6	47%	331	59%
WHG	27.8.B		DA XX/2019 Article 6.1.o	280.2	17.1	37%	17	50%
WHG	27.8.B		DA XX/2019 Article 6.1.p	71.4	514.9	94%	515	95%
WHG	27.8.B Total	n.a.		351.6	532.0	49%	532	60%
WHG	27.8.C		DA XX/2019 Article 6.1.o	0.0	n.a.	n.a.	n.a.	n.a.
WHG	27.8.C Total	0		0.0	n.a.	n.a.	n.a.	n.a.
WHG	27.8.D		DA XX/2019 Article 6.1.o	0.7	n.a.	n.a.	n.a.	n.a.
WHG	27.8.D		DA XX/2019 Article 6.1.p	0.9	n.a.	n.a.	n.a.	n.a.
WHG	27.8.D Total	n.a.		1.6	n.a.	n.a.	n.a.	n.a.

Species codes	Sub Region	Overall landings reported to FDI for the species and Sub Regions, tonnes	Exemption Article	REPORTED FOR SPECIFIC EXEMPTIONS				
				Total weight of landings, tonnes	Discards without fillings		Discards with fillings	
					Weight, tonnes	Coverage % of total landings reported	Weight, tonnes	Coverage % of total landings
WHG Total		1,177		1073.1	862.7	47%	863	59%
MVJ	27.9.A		DA XX/2019 Article 6.1.m	0.0	n.a.	n.a.	n.a.	n.a.
MVJ	27.9.A Total	0		0.0	n.a.	n.a.	n.a.	n.a.
MVJ Total		0		0.0	n.a.	n.a.	n.a.	n.a.

Annex 4 – Med&BS and FDI calls comparison (electronic)

Available at <https://stecf.jrc.ec.europa.eu/reports/fdi>

Annex 5 – Maps of effort and landings (electronic)

Available at <https://stecf.jrc.ec.europa.eu/reports/fdi>

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