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**Our Ref: L.27/ACB/RC/eg**

20 March 2018

**Subject: Revision of Data call 2017: Landings, discards, biological sample and effort data from 2017 in support the ICES fisheries advice in 2018.**

Dear Reader,

Please find enclosed a document describing the rationale, scope and technical details of the data call for 2018 update stock assessments. Also, enclosed are three annexes with additional information.

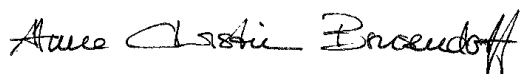
The data will be used by ICES expert groups contributing to the advisory process addressing request for advice on fisheries, and fish and shellfish stocks from ICES advice recipients.

The main reason for the revision is to correct the data needs for four stocks belonging to WGBIE and WGHANSA that had recently undergone a benchmark process (i.e. ank.27.78ab, bss.27.8ab, mon.27.78ab, ane.27.9a). In addition, data needs for one stock (i.e. pra.27.1-2) belonging to NIPAG (Joint NAFO/ICES Pandalus Assessment Working Group) have been added to the data call. For clarity, all changes to the previous version of the Data call are written in red in Annex 1. Please inform data providers of the changes made in order to ensure the right data is provided.

For countries which are also EU members this data call is under Regulations (EU) No 2017/1004 and (EU) No 1380/2013.

For questions about the content of the data call, please contact: [advice@ices.dk](mailto:advice@ices.dk). For support concerning InterCatch issues please contact: [InterCatchsupport@ices.dk](mailto:InterCatchsupport@ices.dk) For questions on data submission, please contact: [accessions@ices.dk](mailto:accessions@ices.dk).

Sincerely,



Anne Christine Brusendorff  
General Secretary

**CC:** Daniel Howell (AFWG Chair); Guldberg Søvik (NIPAG co-chair); Kristjan Kristinsson (NWWG Chair); Tomas Groehsler (WGBFAS Chair); Lisa Readdy (WGBIE Chair); Timothy Earl (WGCSE co-chair); Helen Dobby (WGCSE co-chair); Pascal Lorange (WGDEEP co-chair); Gudmundur Thordarson (WGDEEP co-chair); Alexandra Silva (WGHANSA Chair); Youen Vermard (WGMIXFISH-advice Chair); José de Oliveira (WGNSSK Chair); Gudmundur Oskarsson (WGWIDE chair)



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# Fisheries Data Call 2018

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## Data call: Data submission for ICES fisheries advisory work

### 1 Scope of the Data call

ICES Member Countries are requested to provide, for selected ICES fish and shellfish stocks:

- landings, discards, biological and effort data from 2017 and other supporting information;
- for stocks identified in Annex 1 with “DLS 1” or “DLS 3” under column “DLS proxy RP”; supporting information on life history parameters\* and estimates of length compositions for landings and discards from:
  - The latest year (i.e. 2017) for stocks identified with “DLS 1”,
  - The three most recent consecutive years (i.e. 2017, 2016, 2015) for stocks identified with “DLS 3”.

For some species, countries should also submit landings below minimum size (BMS) and logbook registered discard. Those species are under NWWG, WGBFAS, WGBIE, WGNSSK, WGCSE and WGWIDE and relevant details are specified further under section 6.1.4.

A list of stocks included in the data call are provided in Annex 1. **All countries having catch or landings data on these stocks should submit data, even if not listed on the data request spreadsheets.** The countries listed on the data request spreadsheets were identified based on previous year catches and therefore new fisheries (in 2017) are not detected but should also be reported.

### 2 Rationale

The requested data will be used by ICES advisory groups involved in the provision of ICES advice.

### 3 Legal framework

The legal framework for the data call is as follows:

- Council Regulation (EC) No 2017/1004 concerning the establishment of a Union framework for the collection, management and use of data in the fisheries sector and support for scientific advice regarding the Common Fisheries Policy.
- Council Regulation (EU) No 1380/2013 on the Common Fisheries Policy, amending Council Regulations (EC) No 1954/2003 and (EC) No 1224/2009.

### 4 Deadlines

ICES requests the data to be delivered by a Working Group specific date to provide enough time for additional quality assurance prior to the meeting. Data submission deadlines for each of the Working

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\* “Supporting information on life history parameters” includes information on specific life history traits, if available, noting that some candidate reference points require input on length at first maturity ( $L_{mat}$ ), growth parameters (e.g.,  $L_{inf}$ , K) and M (natural mortality). See Annex 2 for more details

Groups are given in table 1. **Missing the reporting deadline will compromise the indispensable data quality checking (on a stock basis) before the use of that data to update assessments.**

The deadline does not apply to the survey data. It is expected that survey data will be submitted to DATRAS (Database of Trawl Surveys) by the agreed timetable (see <http://www.ices.dk/marine-data/data-portals/Pages/DATRAS-deadlines.aspx>), to ICES acoustic database, or sent to [accessions@ices.dk](mailto:accessions@ices.dk) as early as possible prior to the Working Group meeting.

**Table 1. Data submission deadline for ICES expert groups and respective chair contact.**

EXPERT GROUP (EG)	CHAIR OF THE EG	EMAIL ADDRESS	DATA SUBMISSION DEADLINE
AFWG	DANIEL HOWELL	<a href="mailto:DANIEL.HOWELL@IMR.NO">DANIEL.HOWELL@IMR.NO</a>	28.03.2018
NIPAG	GULDBORG SØVIK & KAREN DWYER	<a href="mailto:GULDBORG.SOEVIK@IMR.NO">GULDBORG.SOEVIK@IMR.NO</a> <a href="mailto:DWYERK@DFO-MPO.GC.CA">DWYERK@DFO-MPO.GC.CA</a>	28.09.2018
NWWG	KRISTJAN KRISTINSSON	<a href="mailto:KRISTJAN.KRISTINSSON@HAFOG.VATN.IS">KRISTJAN.KRISTINSSON@HAFOG.VATN.IS</a>	05.04.2018
WGBFAS	TOMAS GROEHSLER	<a href="mailto:TOMAS.GROEHSLER@THUENEN.DE">TOMAS.GROEHSLER@THUENEN.DE</a>	22.03.2018
WGBIE	LISA READDY	<a href="mailto:LISA.READDY@CEFAS.CO.UK">LISA.READDY@CEFAS.CO.UK</a>	05.04.2018
WGCSE	TIMOTHY EARL & HELEN DOBBY	<a href="mailto:TIMOTHY.EARL@CEFAS.CO.UK">TIMOTHY.EARL@CEFAS.CO.UK</a> <a href="mailto:H.DOBBY@MARLAB.AC.UK">H.DOBBY@MARLAB.AC.UK</a>	11.04.2018
WGDEEP	PASCAL LORANCE & GUDMUNDUR THORDARSON	<a href="mailto:PASCAL.LORANCE@IFREMER.FR">PASCAL.LORANCE@IFREMER.FR</a> <a href="mailto:GUDTHOR@HAFRO.IS">GUDTHOR@HAFRO.IS</a>	22.03.2018
WGHANSA	ALEXANDRA SILVA	<a href="mailto:ASILVA@IPMA.PT">ASILVA@IPMA.PT</a>	28.05.2018
WGMIXFISH-ADVICE	YOUEN VERMARD	<a href="mailto:YOUEN.VERMARD@IFREMER.FR">YOUEN.VERMARD@IFREMER.FR</a>	30.04.2018
WGNSSK	JOSÉ DE OLIVEIRA	<a href="mailto:JOSE.DEOLIVEIRA@CEFAS.CO.UK">JOSE.DEOLIVEIRA@CEFAS.CO.UK</a>	27.03.2018
WGWIDE	GUDMUNDUR OSKARSSON	<a href="mailto:gjos@hafro.is">gjos@hafro.is</a>	31.07.2018

## 5 Data to report

ICES Member Countries are requested to supply data as specified on the Working Groups' data request spreadsheets (Annex 1) to InterCatch, to ICES Secretariat via email ([accessions@ices.dk](mailto:accessions@ices.dk)) or both. Data include:

- landings, discards, biological data and effort data from 2017 and other supporting information;

- for stocks identified in Annex 1 with “DLS 1” or “DLS 3” under column “DLS proxy RP”; supporting information on life history parameters<sup>†</sup> and estimates of length compositions for landings and discards from:
  - The latest year (i.e. 2017) for stocks identified with “DLS 1”,
  - The three most recent consecutive years (i.e. 2017, 2016, 2015) for stocks identified with “DLS 3”.
- supporting information on life history parameters (see Annex 2) should be submitted directly to [accessions@ices.dk](mailto:accessions@ices.dk).

The list of species and stocks, for which data should be submitted, are given in Annex 1. ICES aims at maintain stable definitions over the years of species – stock – metier combinations to facilitate raising data at the institute level.

Data should be reported by the lowest subdivision possible. Aggregations should not be beyond the assessment area of individual stocks. If the format for submission of accession data (Annex 1) is not specified further through the provided templates (Annex 1-3), the format should be the same as used in previous data calls and previous years (if anything is unclear, please contact [accessions@ices.dk](mailto:accessions@ices.dk)).

If corrections for earlier years need to be made, please inform the Expert Group chair (see e-mail contact details in Table 1) and [Advice@ices.dk](mailto:Advice@ices.dk). A full corrected set of data may need to be uploaded.

## 6 Data submission

### 6.1 Reporting to InterCatch

The InterCatch formatted national data should be uploaded into InterCatch, which is available at this link: <https://InterCatch.ices.dk/Login.aspx>.

Please see the ‘InterCatch Exchange Manuals’ on the ICES website for information on the required exchange format and used codes at <http://www.ices.dk/marine-data/data-portals/Pages/InterCatch.aspx>. An overview of the data fields used in the InterCatch exchange format are detailed in appendix 2. The codes for metiers/fleets, countries and areas are in appendix 1, 3 and 4.

For stocks where discard data have been submitted in previous years to InterCatch, it should also be submitted to InterCatch for 2017 (Annex 1).

Area-disaggregated catch data should be submitted to InterCatch in a consistent manner between Data Calls. If area aggregations must be made it should be clearly stated in the InfoStockCoordinator information text field (number 23 in the import file to InterCatch).

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<sup>†</sup> “Supporting information on life history parameters” includes information on specific life history traits, if available, noting that some candidate reference points require input on length at first maturity ( $L_{mat}$ ), growth parameters (e.g.,  $L_{inf}$ ,  $K$ ) and  $M$  (natural mortality). See Annex 2 for more details

### 6.1.1 Data conversion to InterCatch format

A description of the InterCatch Exchange format is found in the InterCatch User Manual<sup>‡</sup>. An overview of the fields in the InterCatch commercial catch format is found in the InterCatch Format overview<sup>§</sup>, where valid codes are also listed.

To ease the process of converting the national data into the InterCatch format, Andrew Campbell from Ireland has made the conversion tool “InterCatchFileMaker”, which converts data manually entered in the ‘Exchange format spreadsheet’ into a file in the InterCatch format. **Be aware that the tool does not currently support the new catch categories BMS Landings and Logbook Registered Discards** (see section 6.1.4.). The conversion tool “InterCatchFileMaker” can be downloaded from the ICES webpage under ‘Format conversion tools’ ([link](#)). The download includes a spreadsheet in which the landings and sampling data can be placed; the program then converts the data into the InterCatch format.

If the “InterCatchFilemaker” conversion program and the exchange format spreadsheet have been used to convert your data to InterCatch format, then the values in the data field “NumSamplesAge” in the InterCatch format file must be entered manually.

If in some areas and quarters there are only length samples available (age samples are missing), then it is possible to use ALKs from neighboring areas or quarters to calculate CANUM and WECA for “Species Data” (SD) records, before importing data to InterCatch. In this case “-9” must be entered in the data fields of “NumSamplesAge” and “NumAgeMeas”.

### 6.1.2 New and simple age and length data in parallel in InterCatch

A small change in the way InterCatch can work with age and length data in parallel has been implemented. Before it was important that length was imported latest although currently the order of importing catches with sample data (age/length) does not matter. In the current version it is important that for a given stratum a catch without samples is not imported after a catch with samples has been imported. So e.g. never import a catch with age samples followed by the same catch without samples, because this will erase the age samples already imported. This is the way to remove wrongly imported age or length data which do not belong to the strata. A simple procedure to follow would be to first import catches for all strata and in this first import the existing age samples. Then in a second import only the strata where there are catches with length samples should be imported.

### 6.1.3 Sample information on age and length data

When age or length data are imported it is requested to fill in the following age and length sampling information fields for both landing and discard samples:

- Number samples of length, field: NumSamplesLngt
- Number length measured, field: NumLngtMeas
- Number samples of age, field: NumSamplesAge
- Number age measured, field: NumAgeMeas

**Data submitters are encouraged to use the fields related to data quality within InterCatch (NumSamplesLngt, NumLngtMeas, NumSamplesAge, NumAgeMeas). This will help stock**

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<sup>‡</sup><http://www.ices.dk/marine-data/Documents/Intercatch/InterCatch%20User%20Manual%20Doc1-11.pdf>

<sup>§</sup> <http://dome.ices.dk/datsu/selRep.aspx?Dataset=76>

**assessors to make allocations in InterCatch and to identify sampling levels changes from one year to another.**

The units of the samples in the record types “NumSamplesLngt” and “NumSamplesAge” of the species data record should be the number of primary sample units (vessel, trip, harbour day, etc.). The units should be given in the InterCatch species information field named “InfoFleet”.

If there is any question regarding InterCatch submissions, please contact the working group chair (see Table 1) and ICES Secretariat at [InterCatchsupport@ices.dk](mailto:InterCatchsupport@ices.dk).



#### 6.1.4 Catch categories in InterCatch

##### Landing, 'L'

The 'Landing' catch category in InterCatch will cover the scientific estimates of landing as it has been done previously.

##### Discard, 'D'

The 'Discard' catch category in InterCatch will cover the discard fraction as it has been done previously. This category is the part of the catch, which is thrown overboard into the sea. This catch category is based on fishery observer estimations.

This component should be in the CATON field and in the OffLandings field a 0 (zero) should be inserted.

Data for this fraction should be reported even when discard values are low. Also, discard estimations for pelagic species based on demersal observer programs should be reported. This is especially important for some small pelagic stocks.

##### BMS Landing, 'B'

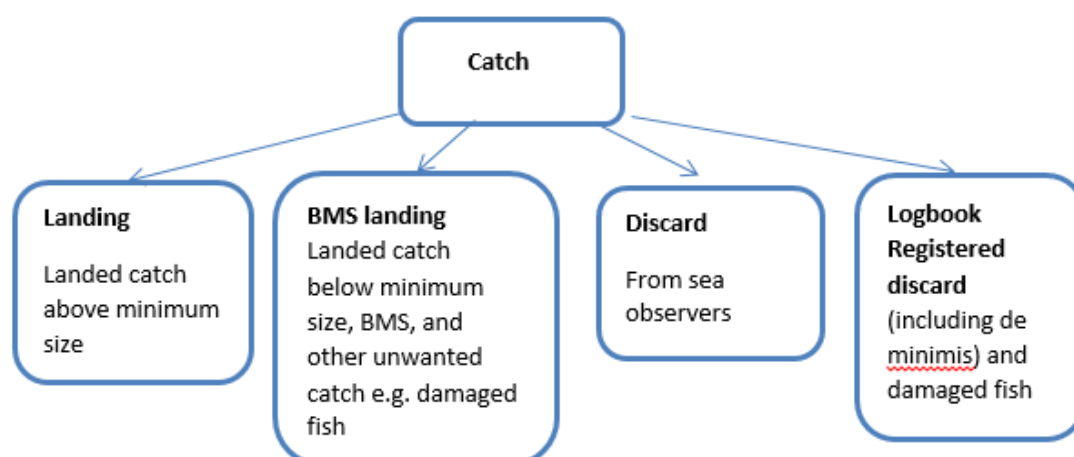
Relevant for stocks under landing obligation. The BMS landings consist of fish and crustaceans Below Minimum Size as registered in the logbook.

If the discard estimation includes the BMS a 0 (zero) should be inserted into the CATON field. If the BMS **is not** included in the discard, your best estimate should be inserted into the CATON field. Either way, the value of BMS as reported in the logbook should always be inserted in the OffLandings field.

##### Logbook Registered Discard, 'R'

Relevant for stocks under landing obligation. This component are discards, which are registered in the logbook and are under the landing obligation exemption rules (e.g. *de minimis*).

This component should be inserted in the OffLandings field as reported in the logbook. A 0 (zero) has to be inserted in the CATON field as this component is already accounted for in the discard estimates (see Tables 2 and 3).



**Figure 1.** Description of the four current catch categories.

The following species under the relevant Working Groups should also submit data for BMS landings and logbook registered discards:

- **NWWG:** Capelin.
- **WGBFAS:** Cod, herring, plaice and sprat.
- **WGBIE:** Sole, hake, Norway lobster, plaice, anglerfish.
- **WGCSE:** Cod, haddock, whiting, Norway lobster, sole, plaice, pollack.
- **WGNSSK:** Saithe, sole, cod, haddock, whiting, hake, plaice, Norway lobster and northern prawn.
- **WGWIDE:** Blue whiting, boarfish, herring, horse mackerel, mackerel.

In InterCatch only CATON is used to derive the total catch used in stock assessment. The values for the different categories in the OffLandings fields (OfficialLanding) are only informative and will not be used in the catch estimate.

Use only the Reporting Category R (for all catch categories) in case of black landings. For Non-reported, please use Reporting Category N.

**Table 2. The species information (SI) record in InterCatch – landing obligation example.** In this example the observer sampling on board has access only to landings and discards with no differentiation being made between the discards and BMS fractions.

Record number	10	11	12	13	19	20	Comments
Field code	Species	Stock	Catch Category	Reporting Category	CATON	OffLandings	
	COD	NA	D	R	1300	0	Observer discard estimate (discards and BMS treated as one).
	COD	NA	B	R	0	0.1	The BMS registered in the logbook (if any), should be inserted in the OffLandings field. CATON should be zero as the Catch category D already accounts for the BMS
	COD	NA	R	R	0	0.2	The Discards registered in the logbook (if any), should be inserted in the OffLandings field. The CATON field will be zero as the Catch category D already accounts for all Discards (registered and not registered)

**Table 3. The species information (SI) record in InterCatch – landing obligation example.** In this example the observer sampling on board has access to landings, discards and BMS fractions. The observer is able to estimate all fractions independently.

Record number	10	11	12	13	19	20	Comments
Field code	Species	Stock	Catch Category	Reporting Category	CATON	OffLandings	
	COD	NA	D	R	1300	0	The discard fraction is an estimate of the discard only.
	COD	NA	B	R	0.1	0.1	The BMS fraction estimated by the observer is added to the CATON field. The BMS registered in the logbooks is entered in OffLandings field.
	COD	NA	R	R	0	0.2	The Discards registered in the logbook (if any), should be inserted in the OffLandings field. The CATON field will be zero as the discards and BMS are already estimated.

#### 6.1.5 Effort data in InterCatch

Effort is recorded in position 11 of the InterCatch header information. Effort is required in kWdays for all species and areas, with the exception of WGBFAS that requires effort in days-at-sea (WGBFAS specifications are detailed in section 7.3). The effort in InterCatch supports WGMIXFISH which needs effort by metier and not by species. This means, that the effort value should be the same for all species, for a given strata. If landing data and discard data are imported in separated files then effort should only be imported once in the landings data. Effort for the discard data should be indicated with a ‘-9’ (indicating no effort).

## 6.2 Reporting to other destinations

Files for [accessions@ices.dk](mailto:accessions@ices.dk) should be submitted in as few e-mails as possible. The file name must include working group, stock, country and data type references as specified below. The email subject must include working group, stock and country references.

"2018 DC [expert group] [stock code/stock codes] [country] [type of data]"

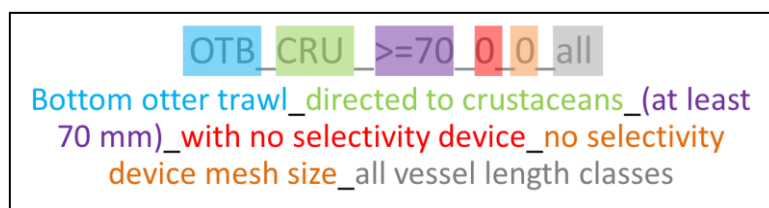
(example: 2018 DC WGBFAS her.27.28 LV landings)

The files will be forwarded to the respective stock coordinators and the Expert Group chairs.

## 6.3 Metiers

In response to ICES Data Calls, landings and effort data by métier should be submitted to InterCatch in a consistent manner. The following text will focus on the codes used for the field "Fleet", which in general is referred to as "*metier*". The *metiers* for each Working Group are listed in Annex 1 (sheet "IC Metier tags"). If a *metier* needed is not available in InterCatch, please contact the Working Group chair (see email address in Table 1).

The *metier* tag entries closely follow the naming convention used for the EU Data Collection Framework (DCF). Below is an explanation of the *metier* tag elements; an underscore separates each of the elements (Figure 2).



**Figure 2.** Explanation of the *metier* tag elements; an underscore separates each of the elements.

### Metier tag elements

1. **GEAR TYPE** (gear types available under the DCF are shown in [2010/93/EU](#) Appendix IV). Note that WGCSE, WGNSSK, WGBIE and WGMIXFISH allow only specific *metiers* in specific areas (see Appendix 1-5).
2. **TARGET ASSEMBLAGE CODE** (code conforming to target assemblage under the DCF are shown in [2010/93/EU](#) Appendix IV). Data can be aggregated over more than one category but in this case the most significant *metier* code is entered.
3. **MESH SIZE RANGE** (mesh size ranges available under the DCF). If necessary data can be aggregated over more than one category but in this case the most significant mesh size range is entered. Exception to this general rules are cases where, for that gear type, data have been aggregated over all ranges used by a nation. In this case an additional entry "0" can be used (The *metier* should look like e.g. LHM\_DEF\_0\_0\_0. The use of "\_all\_" in this tag element should be avoided).
4. **SELECTIVITY DEVICE** (types of selectivity device available: 0: No selectivity device, 1: Exit window or panel, 2: Grid, 3: Square meshes (T90) under the DCF). See [2010/93/EU](#) Appendix IV.
5. **SELECTIVITY DEVICE MESH SIZE** (if the actual mesh size of any selectivity device is entered, this level is referred to as level 6). Data aggregation over several DCF level 6 categories is possible although should be avoided. In these cases the *metier* tag corresponding to the most significant

category is chosen e.g., a mobile gear with mesh sizes covering 70-119 mm (combining 70-99 and 100-119) but for which 70-99 mm is most significant, the code 70-99 will apply. Exceptions to this general rule are cases where data have been aggregated over all mesh size ranges within the national fleet. In these instances the mesh size is omitted and only a *metier* with level 5 (Gear code Target assemblage) is used.

6. **VESSEL LENGTH CLASS** (Member states have been indicated by national sampling scheme designs to not take account of vessel lengths. Therefore the standard entry of “all” or omitted is currently provided for in InterCatch). The option has been left open for length category specific *metier* tags to be added in future years if nations begin to sample and raise data independently for different vessel length categories.

Unspecified data accounting all together for less than 10 % of catches and effort, can be coded into a miscellaneous group named either MIS\_MIS\_0\_0\_0\_HC (Miscellaneous Human Consumption) or MIS\_MIS\_0\_0\_0\_IBC (Miscellaneous Industrial By-Catch) However, this métier aggregation label hinders the ability to effectively model the fishery interactions and its use **should be minimised**.

If multiple metiers are aggregated or merged into dominant metiers, these should be clearly stated In the InfoStockCoordinator information text (field number 23 in the import file to InterCatch).

## 6.4 Data reporting units

Landings, discards, and biological sampling data: as specified in InterCatch Exchange Format.

Landings, discards: by number and in tonnes at 1 cm length intervals for fish and 1mm intervals for Norway lobster.

Effort (WGNSSK, WGCSE, WGBIE, WGDEEP, WGHANSA): kW days (in InterCatch).

Effort (WGBFAS): in days-at-sea, see further WGBFAS specifications in section 7.3).

Year must be entered as four digits, e.g. “2017”.

## 6.5 Zero catch

Countries with no landings for stocks for which they usually report catches should enter a value of zero for landing to InterCatch. This will reassure the stock assessor that no data are missing. A single import of an annual zero landing stratum is acceptable.

For stocks where fishing only occurs in specific quarters, data for quarters with no catches should also be entered (by metier/fleet) to ensure that no data submission was missed. (e.g. for stocks where there are catches in quarter 1, 2 and 4, a catch of zero should be added for quarter 3).

## 6.6 NEAFC Areas and ICES subdivisions

For stocks with catches in areas shared between ICES and NEAFC regulatory area; the areas should be reported with the correct NEAFC area code (e.g. specifying 7.k.1, 7.k.2 vs. 7.k only, or 6.b.1, 6.b.2, vs. 6.b only). This is particularly relevant for stocks under WGDEEP and WGWIDE.

## 6.7 Recreational fisheries data

Recreational fisheries catch data should not be included as commercial landings, even if this has been the case in previous years. The recreational fisheries data should be submitted separately via email to [accessions@ices.dk](mailto:accessions@ices.dk) with a note about the previous practices of data reporting. The respective Working Group chair (see e-mail addresses in table 1) and ICES Secretariat should be informed accordingly.

## 7 Expert group specific uploading information

### 7.1 WGDEEP specification

Black scabbardfish (*Aphanopus carbo*) is believed to constitute a unique stock with three migratory components located in the West of the British Islands, Portugal mainland and Canary/Madeira areas. The southernmost component lies under the Fishery Committee for the Eastern Central Atlantic (CECAF) competence and it is believed to be an important spawning area for the species. In order to strengthen the ICES advisory process and a more comprehensive stock assessment of black scabbardfish, access to the southernmost component data (FAO Fishing Area 34, Division 1.2) is requested in this Data Call from all ICES country members with data available from this area.

The data requested if available should be provided as follows:

Landings and discards per month in tonnes.

Fishing effort per month (KW days).

Length frequency distribution per month or per quarter.

Weight length relationship.

Proportion of mature individuals (by sex) in the last quarter of the year.

### 7.2 WGMIXFISH-ADVICE specification (WGNSSK, WGCSE, WGBIE, WGBFAS)

WGMIXFISH undertakes fleet-based mixed fisheries forecasts, and intends to develop advice for the North Sea, Celtic Sea and Iberian waters in 2018. ICES is requesting for member countries to submit 2017 data. WGMIXFISH operates both at the level of the DCF *metier*, as explained above, AND at the level of the fleet segment, consistently with the approach for the collection of economic data. In addition WGMIXFISH needs specific information by vessel length categories and disaggregated area. Therefore we kindly request estimates of landings weight totals and effort in a format similar to previous WGMIXFISH Data Calls, with the aforementioned parameters specified. Area should be at ICES division level, except for Norway lobster where the InterCatch code for the relevant Functional Unit should be used (see Annex 1, worksheet "ICES area codes").

WGMIXFISH doesn't ask for discard data as these data are available for all *metiers* from the raising procedure done for the single stock advice in InterCatch. Data submitters should aggregate discard InterCatch submissions to the level considered most appropriate for national sampling programs. However, consistency is requested in the aggregation level submitted year by year, to allow mapping to WGMIXFISH *metier* level 6 and vessel length data aggregations. It must be accepted that the InterCatch discard submission level will be proportioned out across all underlying *metiers* and vessel length for use with *metier* level 6 WGMIXFISH landings data (i.e. the assumption of the same discarding and age-distribution in catch will be made by WGMIXFISH). Additional information on discard rates is not needed if estimated discard rates are the same for all vessel length categories within a *metier*, as this information can be taken from InterCatch. However, if specific discard rates exist for each vessel length category, data submitters should provide differentiated discard estimates in an extra column labelled "discards" (see Annex 1, sheet WGMIXFISH-catch and Figures 3 and 4).

#### 7.2.1 WGNSSK: All stocks (2017 data requested)

Provide data by filling the spreadsheets described in section 7.2.5 and in Annex 1.

### 7.2.2 WGCSE: All stocks (2017 data requested)

Provide data by filling the spreadsheets described in section 7.2.5 and in Annex 1.

Species catch data should be submitted according to the following:

**ANF** (aggregated ANF, MON, MNZ),

**LEZ** (aggregated LEZ, MEG),

**RJA** (aggregated RJC, SKA, RAJ, RJA, RJB, RJC, RJE, RJF, RJH, RJI, RJM, RJN, RJO, RJR, SKA, SKX, SRX),

**SDV** (aggregated DGS, DGH, DGX, DGZ, SDV),

COD, HAD, HKE, LIN, NEP, PLE, POK, POL, SOL, WHG.

All remaining catch to be aggregated into an 'OTH' class.

### 7.2.3 WGBIE: (2017 data requested)

Provide data by filling the spreadsheets described in section 7.2.5 and in Annex 1.

Relevant stocks: southern hake (hke.27.8c9a), northern hake (hke.27.3a46-8abd), black anglerfish (ank.27.78ab), white anglerfish (mon.27.78ab), black anglerfish (mon.27.8c9a), white anglerfish (ank.27.8c9a), megrim (meg.27.8c9a), four-spotted megrim (ldb.27.8c9a), megrim (meg.27.7b-k8abd) and four-spotted megrim (ldb.27.7b-k8abd).

### 7.2.4 WGBFAS: (2017 data requested)

Provide data by filling the spreadsheets described in section 7.2.5 and in Annex 1.

### 7.2.5 WGMIXFISH-ADVICE Data format

Information on vessel length and *metier* used is kept separately in two columns in the .csv files (Annex 1, sheet WGMIXFISH-effort, sheet WGMIXFISH-catch). **To specify the *metier*, use exactly the same tags as used for InterCatch** (Annex 1, sheet IC Metier tags).

A field is included to specifically flag FDF (Fully Documented Fisheries) Vessels. As some vessels are involved in FDF *metiers* in one area (e.g. North Sea), while being involved in non-FDF *metiers* in another (e.g. West of Scotland), it is important to flag these vessels at the fleet level, and not only at the *metier* level. Please leave the field blank for the non FDF fleet, and write "FDF" for the FDF flagged vessels.

Two comma separated (.csv) files should be provided:

- 1) A single .csv file reporting *metier* and vessel length disaggregated effort;
- 2) A single .csv file reporting *metier* and vessel length disaggregated catch.

Both files should be sent electronically as .csv files to [accessions@ices.dk](mailto:accessions@ices.dk), clearly indicating in the subject of the file name "2018 WGMIXFISH-ADVICE" [country] [*metier\_catch/metier\_effort*]" (example: 2018 WGMIXFISH-ADVICE UK *metier\_catch*).

1.) The CSV 'effort' file (see Annex 1, sheet WGMIXFISH-effort) should be supplied containing the following entries:

ID (Unique identifier), Country, Year, Quarter, InterCatch *Metier* Tag, Vessel Length Category, FDF vessel flag, Area, kW\_Days, Days at Sea, No Vessels



ID	Country	Year	Quarter	Intercatch Metier Tag	Vessel Length Ca	FDF vessel	Area	KW_Days	Days At Sea	No Vessel
dnk1	DK	2015	1	OTB_DEF>=120_0_0_all	<10m		27.4	1000	100	10
dnk2	DK	2015	1	OTB_DEF>=120_0_0_all_FDF	10<24m	FDF	27.4	1000	100	10
dnk3	DK	2015	1	OTB_DEF>=120_0_0_all	10<24	FDF	27.6.a	1000	100	10

**Figure 3.** Example of WGMIXFISH-ADVICE CSV 'effort' file.

2.) The CSV 'catch' file (see Annex 1, sheet WGMIXFISH-Catch) should be supplied containing the following entries:

ID (Unique identifier), Country, Year, Quarter, InterCatch *Metier* Tag, Vessel Length Category, FDF vessel flag, Area, Species, Landings (tonnes), Value (average price\*landings at first sale, expressed in Euros), Discards (only if discard rate differs from the one submitted to InterCatch).

ID	Country	Year	Quarter	Intercatch Metier Tag	Vessel Length Ca	FDF vessel	Area	Species	Landings	Value	Discards
dnk1	DK	2015	1	OTB_DEF>=120_0_0_all	<10m		27.4	COD	100	1000	
dnk2	DK	2015	1	OTB_DEF>=120_0_0_all_FDF	10<24m	FDF	27.4.b	NEP	100	1000	
dnk3	DK	2015	1	OTB_DEF>=120_0_0_all	10<24	FDF	FU.33	NEP	100	1000	

**Figure 4.** Example of WGMIXFISH-ADVICE CSV 'catch' file.

Note that:

- Vessel length splits are only required for metier tags starting with OTB or TBB.
- Vessel length categories are: <10m, 10<24m, 24<40m, >=40m (Please use exactly these codes)
- Sums of effort and landings across metier tags disaggregated by vessel length should equal the corresponding totals submitted to InterCatch.

### 7.3 WGBFAS specifications

#### Units for data submission

For landings and discards; numbers (in '000) and mean weight (in grams) by age or length (depending on the stock and according to Annex 1 specifications) per fleet/segment, quarter, year, Subdivision, country.

#### Data specification

- Discard survival rates **should not** be accounted for by the countries, when uploading the data
- **Landing obligation** - The EU Landing obligation is mandatory for all fish species in the Baltic Sea subject to catch limits since 1 January 2017. A new fraction of the catch, the BMS (below minimum reference size) catch, has been introduced. It is important that Member Countries are aware of this new fraction in the catch when data are uploaded.
- for **sprat**, fleet segments to be considered are; "Pelagic trawlers" for all trawl gears and "Passive " for all passive gears.

Besides landings and discards InterCatch includes the catch categories: i) BMS landings and ii) logbook registered discard (see section 6.1.4.). It is important when Member Countries are uploading data to InterCatch that the four categories in CATON are summing up to the total catch. BMS landings can either be calculated as an estimate from the observer trips or from official registrations such as sale slips, logbooks or landing declarations. Both the landed BMS catch and the discard estimate will be needed for the WGBFAS.



## Specifics of data requirements for eastern and western Baltic cod

Specifics of length/age distribution data in IC:

- For cod in SD 22-23, age distribution data should be uploaded to IC.
- For cod in SD 24, length distribution data should be provided through [accessions@ices.dk](mailto:accessions@ices.dk) (can be in the form of IC file or an *Excel* spreadsheet). No biological information (no age/length distribution data) should be uploaded to IC.

For Recreational catch from Germany of western Baltic cod (cod.27.22-24):

- Catch in weight, separately for SD 22 and 24
- Catch at age in numbers, separately for SD 22 and 24 (age readings originating from SD 22 should only be used. i.e. not age readings from SD 24)
- Mean weight at age in the catch

The data should be provided as *Excel* spreadsheets and submitted to [accessions@ices.dk](mailto:accessions@ices.dk).

The unit for commercial effort is **days-at-sea** and should be aggregated at the same level as the sampling data (i.e. effort per subdivision, year, quarter and fleet).

## 8 Contact information

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For support concerning any data call issues about the data call please contact the Advisory Department ([Advice@ices.dk](mailto:Advice@ices.dk)).

For support concerning InterCatch submissions please contact: [InterCatchSupport@ices.dk](mailto:InterCatchSupport@ices.dk).

For support concerning other data-submission issues, please contact: [accessions@ices.dk](mailto:accessions@ices.dk).

## Appendix 1.

Gear coding (as defined under the EU Data Collection Framework), allowed for WGNSSK and WGMIXFISH-ADVICE. Based on information from countries fishing in areas 27.3.a.20, 27.4 and 27.7.d and significant fishing gears. Note that the vessel length category (currently ‘\_all’) must appear at the end of every *metier* tag except the MIS\_MIS *metier* tags.

AREA	GEAR TYPE	AVAILABLE METIER TAGS FOR FULLY DOCUMENTED FISHERIES ADD “_FDF” AFTER LENGTH CLASS
27.3.a.20 (Skagerrak) and 27.3.a.21 (Kattegat) Area Type = SubDiv	Beam trawl	TBB_CRU_16-31_0_0_all
		TBB_DEF_90-99_0_0_all
		TBB_DEF_>=120_0_0_all
	Otter trawl	OTB_CRU_16-31_0_0_all
		OTB_CRU_32-69_0_0_all
		OTB_CRU_32-69_2_22_all
		OTB_CRU_70-89_2_35_all
		OTB_CRU_90-119_0_0_all
		OTB_CRU_90-119_0_0_all_FDF
		OTB_DEF_>=120_0_0_all
		OTB_DEF_>=120_0_0_all_FDF
	Seines	SDN_DEF_>=120_0_0_all
		SDN_DEF_>=120_0_0_all_FDF
		SSC_DEF_>=120_0_0_all
		SSC_DEF_>=120_0_0_all_FDF
	Gill, trammel, drift nets	GNS_DEF_100-119_0_0_all
		GNS_DEF_120-219_0_0_all
		GNS_DEF_120-219_0_0_all_FDF
		GNS_DEF_>=220_0_0_all
		GNS_DEF_all_0_0_all
	Lines	GTR_DEF_all_0_0_all
		LLS_FIF_0_0_0_all
	Others (Human consumption)*	LLS_FIF_0_0_0_all_FDF
		MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC
27.4 – (North Sea) Area type = SubArea & 27.7.d (Eastern Channel) Area Type = Div & 27.6.a (for saithe and haddock only) Area Type = Div	Beam trawl	TBB_CRU_16-31_0_0_all
		TBB_DEF_70-99_0_0_all
		TBB_DEF_>=120_0_0_all
	Otter trawl	OTB_CRU_16-31_0_0_all
		OTB_CRU_32-69_0_0_all
		OTB_SPF_32-69_0_0_all
		OTB_CRU_70-99_0_0_all
		OTB_CRU_70-99_0_0_all_FDF
		OTB_DEF_>=120_0_0_all
		OTB_DEF_>=120_0_0_all_FDF
		OTB_DEF_70-99_0_0_all
	Seines	SDN_DEF_>=120_0_0_all
		SDN_DEF_>=120_0_0_all_FDF
		SSC_DEF_>=120_0_0_all

AREA	GEAR TYPE	AVAILABLE METIER TAGS FOR FULLY DOCUMENTED FISHERIES ADD “_FDF” AFTER LENGTH CLASS
		SSC_DEF_>=120_0_0_all_FDF
	Gill, trammel, drift nets	GNS_DEF_100-119_0_0_all
		GNS_DEF_120-219_0_0_all
		GNS_DEF_120-219_0_0_all_FDF
		GNS_DEF_>=220_0_0_all
		GNS_DEF_all_0_0_all
		GTR_DEF_all_0_0_all
	Lines	LLS_FIF_0_0_0_all
		LLS_FIF_0_0_0_all_FDF
	Pots and Traps	FPO_CRU_0_0_0_all
	Others (Human consumption)*	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC

\* The use of metiers under the MIS\_MIS category should be minimized.

## Appendix 2.

Gear coding (as defined under the DCF), allowed for WGCSE and WGMIXFISH-ADVICE in specific areas. Note that the vessel length category (currently '\_all') must appear at the end of every *metier* tag except the MIS\_MIS *metier* tags.

AREA	GEAR TYPE	AVAILABLE METIER TAGS
West of Scotland (27.6.a) and Rockall (27.6.b)	Pots and traps	FPO_CRU_0_0_0_all
	Gillnets	GNS_DEF_>=220_0_0_all
	Longline	LLS_FIF_0_0_0_all
	Otter trawl	OTB_CRU_70-99_0_0_all
		OTB_DEF_>=120_0_0_all
		OTB_DEF_100-119_0_0_all
		OTB_DWS_>=120_0_0_all
		OTB_DWS_100-119_0_0_all
		OTB_MOL_>=120_0_0_all
		OTB_MOL_100-119_0_0_all
	Midwater trawl	OTM_DEF_32-69_0_0_all
		OTM_SPF_32-69_0_0_all
	Seines	SSC_SPF_0_0_0_all
	Others (Human consumption)*	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC
Irish Sea (27.7.a)	Pots and traps	FPO_CRU_0_0_0_all
		FPO_MOL_0_0_0_all
	Gillnets	GNS_DEF_120-219_0_0_all
		GNS_DEF_90-99_0_0_all
	Otter trawl	OTB_CRU_70-99_0_0_all
		OTB_DEF_70-99_0_0_all
		OTB_MOL_70-99_0_0_all
	Beam trawl	TBB_DEF_70-99_0_0_all
	Others (Human consumption)	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)	MIS_MIS_0_0_0_IBC
West of Ireland (27.7.b-c) and Celtic Sea slope (27.7.k-j))	Gillnets	GNS_DEF_>=220_0_0_all
		GNS_DEF_100-119_0_0_all
		GNS_DEF_120-219_0_0_all
		GNS_DWS_100-119_0_0_all
	Otter trawl	OTB_DEF_100-119_0_0_all
		OTB_DEF_70-99_0_0_all
		OTB_DWS_100-119_0_0_all
		OTB_MOL_100-119_0_0_all
		OTB_MOL_70-99_0_0_all
		OTB_SPF_100-119_0_0_all
		OTB_CRU_100-119_0_0_all
	Midwater trawl	OTM_SPF_16-31_0_0
		OTM_SPF_32-69_0_0_all
		OTM_DEF_100-119_0_0_all



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		OTM_LPF_70-99_0_0_all
		OTM_LPF_100-119_0_0_all
	Others (Human consumption)*	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC
Celtic Sea Shelf (27.7.f-h)	Pots and traps	FPO_CRU_0_0_0_all
		FPO_MOL_0_0_0_all
	Gillnets	GNS_DEF_>=220_0_0_all
		GNS_DEF_120-219_0_0_all
		GNS_SPF_10-30_0_0_all
		GTR_DEF_>=220_0_0_all
	Lines	LLS_FIF_0_0_0_all
	Otter trawl	OTB_CRU_100-119_0_0_all
		OTB_CRU_70-99_0_0_all
		OTB_DEF_100-119_0_0_all
		OTB_DEF_70-99_0_0_all
		OTB_DWS_100-119_0_0_all
		OTB_MCD_70-99_0_0_all
		OTB_MOL_100-119_0_0_all
		OTB_MOL_70-99_0_0_all
	Midwater trawl	OTM_DEF_32-69_0_0_all
		OTM_SPF_32-69_0_0_all
	Seines	SSC_SPF_0_0_0_all
		SSC_DEF_100-119_0_0_all
		SSC_DEF_70-99_0_0_all
	Beam trawl	TBB_DEF_70-99_0_0_all
	Others (Human consumption)*	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC
Western Channel (27.7.e)	Pots and traps	FPO_CRU_0_0_0_all
		FPO_MOL_0_0_0_all
	Gillnets	GNS_CRU_0_0_0_all
		GNS_DEF_>=220_0_0_all
		GNS_DEF_100-119_0_0_all
		GNS_DEF_120-219_0_0_all
		GTR_CRU_0_0_0_all
		GTR_DEF_>=220_0_0_all
		GTR_DEF_120-219_0_0_all
	Lines	LLS_DEF_0_0_0_all
		LLS_FIF_0_0_0_all
	Otter trawl	OTB_CRU_100-119_0_0_all
		OTB_CRU_70-99_0_0_all
		OTB_DEF_100-119_0_0_all
		OTB_DEF_70-99_0_0_all
		OTB_DWS_100-119_0_0_all
		OTB_MOL_100-119_0_0_all
		OTB_MOL_70-99_0_0_all
		OTB_SPF_70-99_0_0_all
	Midwater trawl	OTM_SPF_16-31_0_0

		OTM_SPF_32-69_0_0_all
		OTM_DEF_70-99_0_0_all
		OTM_DEF_100-119_0_0_all
	Seines	SSC_SPF_0_0_0_all
		SSC_DEF_70-99_0_0_all
	Beam trawl	TBB_DEF_70-99_0_0_all
	Others (Human consumption)*	MIS_MIS_0_0_0_HC
	Others (Industrial bycatch)*	MIS_MIS_0_0_0_IBC

\* The use of métiers under the MIS\_MIS category should be minimized.

### Appendix 3.

Gear coding (as defined under the DCF), allowed for WGBIE and WGMIXFISH-ADVICE in specific areas.

MÉTIER LEVEL 6	DESCRIPTION
DRB_MOL_0_0_0_all	Boat dredge, molluscs, no selectivity devise, all vessels
FPO_CRU_0_0_0_all	Pots and Traps, Crustaceans, no selectivity device, all vessels
GN_DEF_100-109_0_0_all	Gill nets, demersal fish, mesh size 100-109mm, no selectivity device, all vessels
GNS_DEF_>=100_0_0	Set gillnet, Demersal fish, mesh size more than 100mm, no selectivity device
GNS_DEF_>=220_0_0_all	Set gillnet, Demersal fish, mesh size more than 220mm, no selectivity device, all vessels
GNS_DEF_>=220_0_0_all_FDF	Set gillnet, Demersal fish, mesh size >=220mm, no selectivity device, all vessels, Fully Documented Fisheries
GNS_DEF_100-119_0_0_all	Set gillnet, Demersal fish, mesh size 100-119mm, no selectivity device, all vessels
GNS_DEF_100-219_0_0	Set gillnet directed to demersal fish (100-219 mm)
GNS_DEF_10-30_0_0_all	Set gillnet, Demersal fish, mesh size 10-30mm, no selectivity device, all vessels
GNS_DEF_120-219_0_0_all	Set gillnet, Demersal fish, mesh size 120-219mm, no selectivity device, all vessels
GNS_DEF_120-219_0_0_all_FDF	Set Gillnet, Demersal Fish, Mesh size 120-219, All Vessels, No grid selectivity, Fully Documented Fisheries
GNS_DEF_45-59_0_0	Set gillnet directed to demersal fish (45-59 mm)
GNS_DEF_60-79_0_0	Set gillnet, Demersal fish, mesh size 60-79 mm, no selectivity device
GNS_DEF_80-99_0_0	Set gillnet directed to demersal fish (80-99 mm)
GNS_DEF_all_0_0_all	Set gillnet, Demersal fish, all mesh sizes, no selectivity device, all vessels
GTR_DEF_60-79_0_0	Trammel nets, Demersal fish, mesh size 60-79mm, no selectivity device
GTR_DEF_all_0_0_all	Trammel nets, Demersal fish, all mesh sizes, no selectivity device, all vessels
LHM_DEF_0_0_0	Hand lines directed to demersal fish
LLS_DEF_0_0_0	Set longline directed to demersal fish
LLS_DEF_0_0_0_all	Set longlines, Demersal fish, mesh size not specified, no selectivity device, all vessels.
LLS_FIF_0_0_0_all	Set longlines, Finfish, no selectivity device, all vessels
MIS_DEF_all_0_0_all*	Demersal fisheries, Demersal fish, mesh size any, no selectivity device, all vessels
MIS_MIS_0_0_0_IBC*	Demersal fisheries - Miscellaneous Industrial bycatch
MIS_MIS_All_0_0_All*	Demersal fisheries - Miscellaneous
OTB_CRU_>=70_0_0	Bottom otter trawl directed to crustaceans (at least 70 mm)
OTB_CRU_100-119_0_0_all	Otter trawl, Crustaceans, mesh size 100-119, no selectivity device, all vessels
OTB_CRU_32-69_0_0_all	Otter trawl, Crustaceans and Demersal fish, mesh size 32-69, no selectivity device, all vessels
OTB_CRU_32-69_2_22_all	Otter trawl, Crustaceans, mesh size 32-69, selectivity device - grid 22mm, all vessels
OTB_CRU_70-89_2_35_all	Otter trawl, Crustaceans, mesh size 70-89, selectivity device - grid 35mm, all vessels
OTB_CRU_70-99_0_0	Bottom otter trawl directed to crustaceans (70-99 mm)
OTB_CRU_70-99_0_0_all	Otter trawl, Crustaceans and Demersal fish, mesh size 70-99, no selectivity device, all vessels
OTB_CRU_90-119_0_0_all	Otter trawl, Crustaceans and Demersal fish, mesh size 90-119, no selectivity device, all vessels
OTB_CRU_90-119_0_0_all_FDF	Bottom otter trawl, Crustaceans, mesh Size 90-119, Selectivity Device - none, All vessel types, Fully Documented Fisheries
OTB_CRU_All_0_0_All	Bottom otter trawl, Crustaceans, all mesh sizes, no selectivity devise, all vessel types
OTB_DEF_100-119_0_0	Bottom otter trawl directed to demersal fish (100-119 mm)
OTB_DEF_>=120_0_0_all	Otter trawl, Demersal fish and Crustaceans, mesh size more than 120mm, no selectivity

MÉTIER LEVEL 6	DESCRIPTION
	device, all vessels
OTB_DEF_>=120_0_0_all_FDF	Bottom otter trawl, Demersal fish, Mesh Size 120 or greater, Selectivity Device - none, All vessel types, Fully Documented Fisheries
OTB_DEF_>=55_0_0	Bottom otter trawl directed to demersal fish (at least 55 mm)
OTB_DEF_>=70_0_0	Bottom otter trawler targeting demersal fish with a mesh size > 70 mm
OTB_DEF_100-119_0_0_all	Bottom otter trawler targeting demersal fish with a mesh size 100-119 mm
OTB_DEF_70-99_0_0	Bottom otter trawl directed to demersal fish (70-99 mm)
OTB_DEF_All_0_0_All	Bottom otter trawl directed to demersal fish, all mesh sizes, no selectivity device
OTB_MCD_>=55_0_0	Otter trawl, Mixed crustaceans and demersal fish, mesh size more than 55mm, no selectivity device.
OTB_MCF_>=70_0_0	Otter trawler targeting cephalopods and fish
OTB_MOL_70-99_0_0_all	Otter trawl, Molluscs, mesh size 70-99mm, no selectivity device, all vessels
OTB_MPD_>=70_0_0	Bottom otter trawl directed to mixed pelagic and demersal fish (at least 70 mm)
OTB_MPD_>=55_0_0	Bottom otter trawl directed to pelagic and demersal fish (at least 55 mm)
OTB_SPF_32-69_0_0_all	Otter Bottom trawl, Small pelagic fish, 32-69 mm, no selectivity device, all vessels
OTM_DEF_100-119_0_0_all	Midwater otter trawl, Demersal species, mesh size 100-119mm, no selectivity device, all vessels
OTM_DEF_32-54_0_0_all	Midwater otter trawl, Demersal species, mesh size 32-54mm, no selectivity device, all vessels
OTM_DEF_55-69_0_0_all	Midwater otter trawl, Demersal species, mesh size 55-69mm, no selectivity device, all vessels
OTM_DEF_70-99_0_0_all	Midwater otter trawl, Demersal species, mesh size 70-99mm, no selectivity device, all vessels
OTM_DEF_80-89_0_0_all	Midwater otter trawl, Demersal species, mesh size 80-89mm, no selectivity device, all vessels
OTT_CRU_>=70_0_0	Multi-rig otter trawl directed to crustaceans (at least 70 mm)
OTT_DEF_>=70_0_0	Multi-rig otter trawl directed to demersal fish (at least 70 mm)
OTT_DEF_>=120_0_0_all	Multi-rig otter trawl, demersal fish, mesh size more than 120mm, no selectivity device, all vessels
OTT_DEF_100-119_0_0_all	Multi-rig otter trawl, demersal fish, mesh size 100-119mm, no selectivity device, all vessels
OTT_DEF_16-31_0_0_all	Multi-rig otter trawl, demersal fish, mesh size 16-31mm, no selectivity device, all vessels
OTT_DEF_80-89_0_0_all	Multi-rig otter trawl, demersal fish, mesh size 80-89mm, no selectivity device, all vessels
OTT_DEF_90-99_0_0_all	Multi-rig otter trawl, demersal fish, mesh size 90-99mm, no selectivity device, all vessels
PS_SPF_0_0_0	Purse seine, Small pelagic fish, no selectivity device.
PTB_DEF_>=70_0_0	Bottom pair trawl directed to demersal fish (at least 70 mm)
PTB_DEF_>=120_0_0_all	Pair bottom trawl, demersal fish, mesh size more than 120mm, no selectivity device, all vessels
PTB_DEF_>=70_0_0	Pair bottom trawler targeting demersal fish
PTB_DEF_80-89_0_0_all	Pair bottom trawl, demersal fish, mesh size 80-89mm, no selectivity device, all vessels
PTB_MPD_>=55_0_0	Bottom pair trawl directed to mixed pelagic and demersal fish (at least 55 mm)
PTM_DEF_90-104_0_0	Midwater pair trawl, demersal fish, mesh size 90-104 mm, no selectivity device
SDN_DEF_>=120_0_0_all	Anchored seine, Demersal fish, mesh size more than 120mm, no selectivity device, all vessels
SDN_DEF_>=120_0_0_all_FDF	Anchored Seine, Demersal Fish, Mesh Size 120 or above, Selectivity Device - none, All vessels, Fully Documented Fisheries
SSC_DEF_>=120_0_0_all	Fly shooting seine, Demersal fish, mesh size more than 120mm, no selectivity device, all vessels



MÉTIER LEVEL 6	DESCRIPTION
SSC_DEF_>=120_0_0_all_FDF	Fly shooting seine, Demersal Fish, Mesh Size 120 or greater, Selectivity Device - none, All vessels, Fully Documented Fisheries
SSC_DEF_100-119_0_0_all	Fly shooting seine, Demersal fish, mesh size 100-119mm, no selectivity device, all vessels.
SSC_DEF_80-89_0_0_all	Fly shooting seine, Demersal fish, mesh size 80-89mm, no selectivity device, all vessels.
SSC_DEF_All_0_0_All	Fly shooting seine, , Demersal fish, all mesh sizes, no selectivity, all vessels
TBB_CRU_16-31_0_0_all	Beam trawl, Crustaceans, mesh size 16-31mm, no selectivity device, all vessels
TBB_DEF_<16_0_0_all	Beam trawl, Demersal fish, mesh size 16mm or less, no selectivity device, all vessels
TBB_DEF_>=120_0_0_all	Beam trawl, Demersal fish, mesh size more than 120, no selectivity device, all vessels
TBB_DEF_100-119_0_0_all	Beam Trawl, mesh size 100-119mm
TBB_DEF_70-99_0_0_all	Beam trawl, Demersal fish, mesh size 70-99, no selectivity device, all vessels
TBB_DEF_90-99_0_0_all	Beam trawl, Demersal fish, mesh size 90-99, no selectivity device, all vessels
TBB_DEF_all_0_0_all	Beam trawl, Demersal fish, all mesh sizes, no selectivity, all vessels

\* The use of metiers under the MIS\_MIS category should be minimized.

## Appendix 4.

The information requested in this appendix is only required for stocks identified in Annex 1 with “DLS 1” or “DLS 3” under column “DLS proxy RP”.

Supporting life history information in the 2018 ICES data call in Annex 2.

“Supporting life history information” would include information on life history traits, if available, noting that some candidate reference points may require input on  $L_{mat}$  (length at first maturity), growth parameters (e.g.,  $L_{inf}$ ,  $K$ ), and  $M$  (natural mortality). ICES recognizes that for countries which are also EU members, this type of information is not under the Regulation (EC) No 2017/1004. That said, this type of information is important to the delivery of advice associated with this data call. ICES asks Member countries to report this information if they are aware of it, but it is not obligatory.

^ If information is provided on traits not listed in the template, include them in these rows with the parameter name in the comments column.						
	Value	Reference	Country code	Stock code	Species code	Comments
Lmat						
Linf						
K						
M						
Unspecified parameter^						
Unspecified parameter^						

**Figure 7. Supporting life history information.**