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Our Ref: L.27/ACB/SM/mo   31 August 2017

Subject: Data call: Data submission for ICES benchmark of selected stocks under WKREDFISH 2018

Dear Reader,

Please find enclosed a document describing the rationale, scope and technical details of the data call for the ICES benchmark of selected stocks under WKREDFISH 2018.

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

For countries which are also EU members this data call is under the Council Regulation (EC) No 199/2008 and No 665/2008. The deadline for this data call is 20 October 2017.

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

The data call is also available from the ICES website at: http://ices.dk/marine-data/tools/Pages/Data-calls.aspx

Sincerely,

Anne Christine Brusendorff
General Secretary

CC: Gudmundur Thordarson (WKREDFISH Chair), Venetia Kostopoulou (DG MARE, DCF); Bas Drukker (DG MARE, DCF)

Data call: Data submission for ICES benchmark of selected stocks under WKREDFISH 2018

Rationale

This data call supports the work to be made during the ICES Benchmark Workshop for Redfish stocks in the northeast Arctic (WKREDFISH) together with the data already submitted by the ICES countries for the ICES Arctic Fisheries Working Group (AFWG) meetings in 2017 and previous meetings of this group.

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 and repealing Council Regulations

What the requested information will be used for

The data will be used for exploratory analyses and stock assessment in the benchmark workshop. The end product of the benchmark workshop would be an agreed set of data and assessment methodology to be used in future update assessments to provide advice.

Geographical and temporal scope

Temporal scope for landings, discards, biological samples, and effort data is from 1992–2016. Data are requested for beaked redfish and golden redfish in subareas 1 and 2 (Northeast Arctic) (Table 1).

Table1: List of species

Common name	Scientific name	Species Code
Beaked redfish	*Sebastes mentella*	REB
Golden redfish	*Sebastes norvegicus*	REG

Geographical scope for each species is found in Table 2.

Table 2. List of ICES areas by stock

Stock code	Area code	Species
reb.27.1-2	27.1, 27.1.a, 27.1.b, 27.2, 27.2.a, 27.2.b, 27.2.a.1, 27.2.a.2, 27.2.b.1, 27.2.b.2	Beaked redfish (REB)
reg.27.1-2	27.1, 27.1.a, 27.1.b, 27.2, 27.2.a, 27.2.b, 27.2.a.1, 27.2.a.2, 27.2.b.1, 27.2.b.2	Golden redish (REG)

Data to report

Landings, discards, sample information and effort data should be provided on an annual (or quarterly) basis for the period 1992–2016 and imported into InterCatch **if not already imported**. Data from earlier years can be reported if available in appropriate format and of suitable quality. Regarding the sample information; the number, mean

weight and mean length, weight-at-age, length-at-age, length distribution and age distributions should be imported. Also the number of length and age measurements should also be imported (including the fields: *SampledCatch, NumSamplesLngt, NumLngtMeas, NumSamplesAge, NumAgeMeas*) per year and quarter. Only age measurements from a given year (or quarter) should be included. Data submitters should check if all the data requested are available in InterCatch, and not only the landings. **Ensure that the codes and metier/fleet definitions are exactly the same as described in Appendix 1–4**. **Also, countries which do not have commercial landings should report available/estimated discard data and sampling data if available!** For discard data, the data source should also be provided (e.g. "information from fishery", "expert judgment", "sampling", "self-sampling" etc.) using the SI comment field, field number 23 "*InfoStockCordinator*". Data should be uploaded to InterCatch by subdivision where possible, and by division or subarea for historical data for which data by subdivision is not available.

IMPORTANT:

- If discard data are unavailable, there should be no entry for discards. A value of "zero" should only be entered when zero discards have been observed.
- Discard survival rates should not be accounted for by the Country when uploading the data.
- If no landings and discards of a relevant stock took place, but there has been a fishery in a given stratum, please indicate to *accessions@ices.dk* that no data had to be submitted for the Country in question.
- If corrections are needed for data already previously submitted to AFWG, then update the data in InterCatch. In this case please inform Sarah Millar (*sarah-louise.millar@ices.dk*) and the Advisory Department (*Advice@ices.dk*).

Additional data to report for Beaked and Golden redfish. All data files should be sent in one email and given the files names as below:

- Genetic analysis available to differentiate stocks in the North Atlantic and exchange rates between them (any format). The files should be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_genetics".
- Maturity at age/length data. The scale which has been used to determine maturity stage should also be provided. The data file should be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_maturity". Maturity at age data based on commercial samplings can also be uploaded in InterCatch together with other age based information.
- Indices from national surveys that can be used to derive relative abundance indices (by age). The data file containing the index, as well as the associated information on the survey design and index calculations should be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_national surveys".
- National commercial CPUE indices that can be used to derive relative abundance and biomass trends (by age). Alternative standardized and non-standardized indices should also be submitted based on different effort units (e.g., kw-days, fishing hours, days at sea). The data file and associated information on the index calculations should be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_CPUE". More alternative indices may need to be calculated during the benchmark preparation process.
- Recreational fishery data per year and quarter (and per age). The data file should be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_recreational".

Additional information to the extent possible:

- Information on potential changes in exploitation pattern derived from logbook data to be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_logbook".

- Currently, the analytical assessment model uses weight@age from fisheries catch to represent weight@age in the stock. Available data on stock weights from fisheries-independent sources can be sent directly to *accessions@ices.dk*. The name of the file should be "WKREDFISH_STOCK CODE_[COUNTRY]_stock weights".

How to report to InterCatch

The InterCatch formatted national data should be imported 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 annex 2. The metier/fleet, area and country codes are described in Appendix 1–4.

Conversions to InterCatch Format

A description of the InterCatch Exchange format is found in the InterCatch Exchange Format[1]. An overview of the fields in the InterCatch commercial catch format is found in the Intercatch Format overview[2], 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 a conversion tool 'InterCatchFileMaker', which converts data manually entered in the 'Exchange format spreadsheet' into a file in the InterCatch format. The conversion tool 'InterCatchFileMaker' can be downloaded at the InterCatch information page[3]. The download includes a spreadsheet in which the landings and sampling data can be placed; the program then converts the data in the spreadsheet into the InterCatch format.

1) If InterCatchFilemaker conversion program and the exchange format spreadsheet has been used to convert your data to InterCatch format, then the values in the data field "NumSamlpesAge" in the InterCatch format file must be entered manually.

2) If in some areas and quarters, 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. In this case "-9" in the data fields of "NumSamlpesAge" and "NumAgeMeas" must be entered.

Additional data submission

Send non-standard data to *accessions@ices.dk,* using the subject as described for each data file. Email subject should include reference to WKREDFISH and COUNTRY.

Timing

The deadline to deliver the dat**a is** 20th October 2017.

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[1]http://ices.dk/marine-data/Documents/Intercatch/IC-ExchangeFormat1-0.pdf

[2] http://dome.ices.dk/datsu/selRep.aspx?Dataset=76

[3] http://www.ices.dk/marine-data/Documents/Intercatch/Filemaker4_3.zip

Contact points

For support concerning other issues about the data call please contact: Sarah Millar (*sarah-louise.millar@ices.dk*) and the Advisory Department (*Advice@ices.dk*).

For support concerning InterCatch issues please contact: *InterCatchSupport@ices.dk*

Appendix 1 List of Metiers/Fleets

The list of metiers/fleets to use are listed below. If a metier is not listed please check InterCatch, where it might exist. Otherwise, please contact the chair so that the missing metier can be added to InterCatch.

Metier/fleet	Description
MIS_MIS_0_0_0	Unknown
OTB_DEF_80-99_0_0	Bottom otter trawl, Demersal fish, mesh size 80-99, no selectivity device
SDN_DEF_>=120_0_0_all	Anchored seine, Demersal fish, mesh size more than 120mm, no selectivity device, all vessels.
PEL	Pelagic trawl
Bottom trawl	Bottom trawl
GNS	Gillnets
GNS_DEF	Gillnets, Demersal fisheries
GNS_DWS	Gillnets, Deepwater sepcies
LLS_DEF	Set longlines, Demersal fisheries
LLS_DWS	Set longlines, Deepwater species
Purse seine	Putrse seines
SSC	Fly shooting seines
Danish seine	Danish seine

Appendix 2 Commercial catch and sample data used in InterCatch.

Table HI. InterCatch Header Information fields.

Start/Order	Field Name	Width	Mandatory	Data Type
HI Header Information				
1	RecordType	2	✓	char
2	Country	3	✓	char
3	Year	4	✓	char
4	SeasonType	10	✓	char
5	Season	4	✓	char
6	Fleet	60	✓	char
7	AreaType	10	✓	char
8	FishingArea	10	✓	char
9	DepthRange	10		char
10	UnitEffort	3		char
11	Effort	15		decimal4
12	AreaQualifier	20		char

Table SI. InterCatch species information fields.

Start/Order	Field Name	Width	Mandatory	Data Type
SI Species Information				
1	RecordType	2	✓	char
2	Country	3	✓	char
3	Year	4	✓	char
4	SeasonType	10	✓	char
5	Season	4	✓	char
6	Fleet	60	✓	char
7	AreaType	10	✓	char
8	FishingArea	10	✓	char
9	DepthRange	10	✓	char
10	Species	3	✓	char
11	Stock	10	✓	char

12	CatchCategory	2	✓	char
13	ReportingCategory	2	✓	char
14	DataToFrom	10		char
15	Usage	2		char
16	SamplesOrigin	5		char
17	QualityFlag	2		char
18	UnitCATON	2	✓	char
19	CATON	20	✓	decimal12
20	OffLandings	7		int
21	varCATON	20		decimal12
22	InfoFleet	250		char
23	InfoStockCoordinator	250		char
24	InfoGeneral	250		char

Table SD. InterCatch species data fields.

Start/Order	Field Name	Width	Mandatory	Data Type
SD Species Data (Sample Data)				
1	RecordType	2	✓	char
2	Country	3	✓	char
3	Year	4	✓	char
4	SeasonType	10	✓	char
5	Season	4	✓	char
6	Fleet	60	✓	char
7	AreaType	10	✓	char
8	FishingArea	10	✓	char
9	DepthRange	10	✓	char
10	Species	3	✓	char
11	Stock	10	✓	char
12	CatchCategory	2	✓	char
13	ReportingCategory	2	✓	char
14	Sex	2		char
15	CANUMtype	7	✓	char
16	AgeLength	2	✓	int
17	PlusGroup	2		int
18	SampledCatch	5		int
19	NumSamplesLngt	5		int
20	NumLngtMeas	5		int
21	NumSamplesAge	5		int
22	NumAgeMeas	5		int
23	unitMeanWeight	3	✓	char
24	unitCANUM	2	✓	char
25	UnitAgeOrLength	4	✓	char
26	UnitMeanLength	3		char
27	Maturity	2		char
28	NumberCaught	20	✓	decimal12
29	MeanWeight	20	✓	decimal12

30	MeanLength	20		decimal12
31	varNumLanded	20		decimal12
32	varWgtLanded	20		decimal12
33	varLgtLanded	20		decimal12

InterCatch commercial catch and sample data file example (using the HI, SI and SD record types).

Example 1. Landing data for quarter 1, area division IIa, where only landing data (no SD-records) is given for metier SDN_DEF_>=120_0_0_all, while landing data and age sample data (SD-records) are given for metier OTB_DEF_80-99_0_0:

```
HI,UKS,2013,Quarter,1,SDN_DEF_>=120_0_0_all,Div,IIa,NA,NA,25,NA
SI,UKS,2013,Quarter,1,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,NA,H,U,NA,t,500,500,-9
HI,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,NA,1000,NA
SI,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,NA,H,U,NA,t,3677,3677,-9,Fleet which does most of the fishing,,
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,1,15,0,16,7410,16,1674,kg,k,year,cm,NA,2616.4,0.011,12.58,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,2,15,0,16,7410,16,1674,kg,k,year,cm,NA,2701.4,0.043,19.31,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,3,15,0,16,7410,16,1674,kg,k,year,cm,NA,2501.0,0.087,23.37,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,4,15,0,16,7410,16,1674,kg,k,year,cm,NA,6200.8,0.134,26.34,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,5,15,0,16,7410,16,1674,kg,k,year,cm,NA,4580.8,0.164,28.03,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,6,15,0,16,7410,16,1674,kg,k,year,cm,NA,4456.8,0.176,28.68,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,7,15,0,16,7410,16,1674,kg,k,year,cm,NA,2831.6,0.188,29.39,-9,-9,-9
SD,UKS,2013,Quarter,1,OTB_DEF_80-99_0_0,Div,IIa,NA,AAS,NA,L,R,N,age,8,15,0,16,7410,16,1674,kg,k,year,cm,NA,2051.5,0.197,29.82,-9,-9,-9
```

Example 2. Landing and discard data for quarter 4, area division IIa, metier SDN_DEF_>=120_0_0_all, where there is one HI-record for landing and discard data (CATON/weight) and age sample data (SD-records) for both landings and discards:

```
HI,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,NA,100,NA
SI,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,NA,H,U,NA,t,197,197,-9,,,
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,0,15,0,2,1377,2,254,kg,k,year,cm,NA,337.1,0.0112,11.94,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,1,15,0,2,1377,2,254,kg,k,year,cm,NA,288.8,0.0374,17.88,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,2,15,0,2,1377,2,254,kg,k,year,cm,NA,305.99,0.065,21.23,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,3,15,0,2,1377,2,254,kg,k,year,cm,NA,244.34,0.086,22.25,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,4,15,0,2,1377,2,254,kg,k,year,cm,NA,449.35,0.133,25.28,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,5,15,0,2,1377,2,254,kg,k,year,cm,NA,277.47,0.125,24.94,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,6,15,0,2,1377,2,254,kg,k,year,cm,NA,162.47,0.143,26.01,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,7,15,0,2,1377,2,254,kg,k,year,cm,NA,91.56,0.1676,27.34,-9,-9,-9
SD,UKS,2013,Quarter,4,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,L,R,N,age,8,15,0,2,1377,2,254,kg,k,year,cm,NA,51.25,0.1621,26.86,-9,-9,-9
HI,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,NA,-9,NA
SI,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,NA,H,U,NA,t,197,197,-9,,,
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,0,15,0,5,400,5,70,kg,k,year,cm,NA,337.76,0.011,11.94,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,1,15,0,5,400,5,70,kg,k,year,cm,NA,288.55,0.037,17.88,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,2,15,0,5,400,5,70,kg,k,year,cm,NA,305.09,0.067,21.23,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,3,15,0,5,400,5,70,kg,k,year,cm,NA,244.74,0.082,22.25,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,4,15,0,5,400,5,70,kg,k,year,cm,NA,449.55,0.133,25.28,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,5,15,0,5,400,5,70,kg,k,year,cm,NA,277.97,0.125,24.94,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,6,15,0,5,400,5,70,kg,k,year,cm,NA,162.17,0.143,26.01,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,7,15,0,5,400,5,70,kg,k,year,cm,NA,91.026,0.167,27.34,-9,-9,-9
SD,UKS,2013,Year,2013,SDN_DEF_>=120_0_0_all,Div,IIa,NA,AAS,NA,D,R,N,age,8,15,0,5,400,5,70,kg,k,year,cm,NA,51.185,0.162,26.86,-9,-9,-9
```

Appendix 3 Country coding (as used currently by InterCatch)

Country Code	Country
BE	Belgium
CA	Canada
DE	Germany
DK	Denmark
EE	Estonia
ES	Spain
FI	Finland
FO	Faroe Islands
FR	France
GG	UK (Channel Island Guernsey)
GL	Greenland
IE	Ireland
IM	UK (Isle of Man)
IS	Iceland
IT	Italy
JE	UK (Channel Island Jersey)
LT	Lithuania
LV	Latvia
NL	Netherlands
NO	Norway
PL	Poland
PT	Portugal
RU	Russia
SE	Sweden
UKE	UK (England)
UKN	UK (Northern Ireland)
UKS	UK(Scotland)
US	United States of America

Appendix 4 Area coding

Codes accepted by InterCatch.

Area code	Area type code
27.1	SubArea
27.1.a	Div
27.1.b	Div
27.2	SubArea
27.2.a	Div
27.2.b	Div
27.2.a.1	SubDiv
27.2.a.2	SubDiv
27.2.b.1	SubDiv
27.2.b.2	SubDiv