

### DCF national correspondents

Els Torreale, Jørgen Dalskov, Elo Rasmann, Heikki Lehtinen, Maximilien Simon, Christoph Stransky, Leonie O'Dowd, Didzis Ustups, Laura Simonaityte, Inge Janssen, Zbigniew Karnicki, Emilia Batista, Maria del Pilar Vara del Rio, Anna Hasslow, Mathew Elliott.

### ICES ACOM members and observers

Els Torreale, Morten Vinther, Robert Aps, Matti Salminen, Alain Biseau, Christopher Zimmermann, Gudmundur Thordarson, Maurice Clark, Didzis Ustups, Tomas Zolubas, Nathalie Steins, Jan Horbowy, Fatima Borges, Francisco Velasco, Max Cardinale, Harald Gjørøseter, Yuri Efimov, Nick Bailey, Petur Steingrund, Jesper Boje

**Our Ref:** L.27/ACB/SM/mo

21 August 2017

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

Dear Reader,

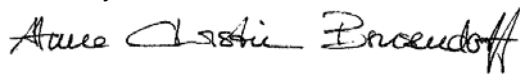
Please find enclosed a document describing the rationale, scope and technical details of the data call for the ICES benchmark of selected stocks under WKANGLER 2018.

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 3 October 2017.

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:** Lisa Readdy (WKANGLER Chair), Venetia Kostopoulou (DG MARE, DCF); Bas Drukker (DG MARE, DCF)



**ICES**  
**CIEM**

International Council for  
the Exploration of the Sea  
Conseil International pour  
l'Exploration de la Mer

H. C. Andersens Boulevard 44-46,  
1553 Copenhagen V, Denmark

+45 33 38 67 00  
[info@ices.dk](mailto:info@ices.dk) | [www.ices.dk](http://www.ices.dk)

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

## Rationale

This data call supports the work to be made during the ICES Benchmark Workshop for Anglerfish stocks (WKANGLER) together with the data already submitted by the ICES countries for the ICES Working Group for the Bay of Biscay and the Iberian Waters Ecoregion (WGBIE), Arctic Fisheries Working Group (AFWG) and Working Group for the Celtic Seas Ecoregion (WGCSE) meetings in 2017 and previous meetings of these groups.,

## 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 on fishing opportunities of anglerfish (stocks specified in Table 1 below).

## Geographical and temporal scope

Temporal scope for landings, discards, biological samples, and effort data is from 2002–2016. Data are requested for six anglerfish stocks (Table 1).

**Table1: List of species**

Stock	Common name	Scientific name	Species code
<i>ank.27.8c9a</i>	Black-bellied anglerfish	<i>Lopius bugegassa</i>	ANK
<i>ank.27.78ab</i>	Black-bellied anglerfish	<i>Lopius bugegassa</i>	ANK
<i>mon.27.8c9a</i>	White anglerfish	<i>Lophius piscatorius</i>	MON
<i>mon.27.78ab</i>	White anglerfish	<i>Lophius piscatorius</i>	MON
<i>anf.27.1-2</i>	Anglerfish	<i>Lopius bugegassa</i> , <i>Lophius piscatorius</i>	ANF
<i>anf.27.3a46</i>	Anglerfish	<i>Lopius bugegassa</i> , <i>Lophius piscatorius</i>	ANF

Geographical scope for each species is found in Table 2.

**Table 2. List of ICES areas by stock**

Stock	Stock code	Area code	Species code
Black-bellied anglerfish 8c and 9a	<i>ank.27.8c9a</i>	27.8.c, 27.9.a, 27.9.a.n, 27.9.a.s, 27.9.a.c.n, 27.9.a.c.s, 27.9.a.s.a, 27.9.a.s.c	ANK
Black-bellied anglerfish 7.b–k, 8.a–b, and 8.d	<i>ank.27.78ab</i>	27.7.d, 27.7.e, 27.7.f, 27.7.b, 27.7.c, 27.7.g, 27.7.h, 27.7.j, 27.7.k, 27.8.a, 27.8.b, 27.8.d, 27.7.c.1, 27.7.c.2, 27.7.j.1, 27.7.j.2, 27.7.k.1, 27.7.k.2, 27.8.d.1, 27.8.d.2	ANK
White anglerfish 8c and 9a	<i>mon.27.8c9a</i>	27.8.c, 27.9.a, 27.9.a.n, 27.9.a.s, 27.9.a.c.n, 27.9.a.c.s, 27.9.a.s.a, 27.9.a.s.c	MON
White anglerfish 7.b–k, 8.a–b, and 8.d	<i>mon.27.78ab</i>	27.7.d, 27.7.e, 27.7.f, 27.7.b, 27.7.c, 27.7.g, 27.7.h, 27.7.j, 27.7.k, 27.8.a, 27.8.b, 27.8.d, 27.7.c.1, 27.7.c.2, 27.7.j.1, 27.7.j.2, 27.7.k.1, 27.7.k.2, 27.8.d.1, 27.8.d.2	MON
Anglerfish 1 and 2	<i>anf.27.1-2</i>	27.1, 27.2, 27.2.a, 27.2.b, 27.1.b, 27.2.a.1, 27.2.a.2	ANF
Anglerfish 4, 6 and 3a	<i>anf.27.3a46</i>	27.4, 27.4.a, 27.4.a.e, 27.4.a.w, 27.6, 27.3.a, 27.4.b, 27.4.c, 27.6.a, 27.6.b, 27.6.a.n, 27.3.a.21, 27.6.a.s, 27.3.a.20, 27.6.b.2, 27.6.b.1	ANF

## Data to report

Landings, discards, sample information and effort data should be provided on a quarterly basis from 2002–2016 and imported into InterCatch **if not already imported**. Regarding the sample information; the number, mean weight at both age and length should be imported to InterCatch, and mean length at age should also be imported. 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 or length measurements from a given quarter and year should be included, not ages from age length keys. 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*”.

### 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](mailto: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 WGBIE, AFWG and WGCSE then update the data in InterCatch. In this case please inform Sarah Millar ([sarah-louise.millar@ices.dk](mailto:sarah-louise.millar@ices.dk)) and the Advisory Department ([Advice@ices.dk](mailto:Advice@ices.dk)).

**Additional data to report for anglerfish. Each country should send all their data files in one email, naming the files as below:**

- Maturity at age and length data which are not already included in *DATRAS*. (Proportion of mature individuals per age and length class per year and quarter). The information on which maturity stage key has been used should also be provided. The data file should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_maturity”. Maturity at age and length data based on commercial samplings can also be uploaded in InterCatch together with other age and length based information.
- Sex at age and length data which are not already included in *DATRAS*. (Proportion of female individuals per age and length class per year and quarter). The data file should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_sex”. Sex at age and length data based on commercial samplings can also be uploaded in InterCatch together with other age and length based information.
- The information and methods used to split species between *L. budegassa* and *L. piscatorius* and raised to total landing/dicards and catch should be provided. The data file should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_speciesID”.
- Indices from national surveys that can be used to derive relative abundance indices (by age and length). 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](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_national surveys”.
- National commercial CPUE indices that can be used to derive relative abundance and biomass trends (by age and length). 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](mailto:accessions@ices.dk). More alternative indices may need to be calculated during the benchmark preparation process. The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_CPUE”.

*Additional information to the extent possible:*

- If landings, discards, sample information and effort data exists prior to 2002 and has not previously been submitted to ICES, this would be useful information for the benchmark and should be submitted to InterCatch where possible.
- Stock weights from fisheries-independent sources would be useful information for the benchmark and should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_stock weights”.
- Any tagging data/information or 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](mailto:accessions@ices.dk). The name of the file should be “WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_tagging”.

- Any data on natural mortality per age (e.g., from tagging studies). Information/data should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be "WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_natural mortality".
- Any data on growth (e.g., from tagging studies). Information/data should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be "WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_growth".
- Estimates of discards survival would be useful information for the benchmark and should be sent directly to [accessions@ices.dk](mailto:accessions@ices.dk). The name of the file should be "WKANGLER\_STOCK CODE\_2018\_[COUNTRY]\_discard survival".

## 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 Appendix 2. The metier/fleet, country and area codes are described in Appendices 1–4.

## Conversions to InterCatch Format

A description of the InterCatch Exchange format is found in the InterCatch Exchange Format<sup>1</sup>. An overview of the fields in the InterCatch commercial catch format is found in the Intercatch Format overview<sup>2</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 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<sup>3</sup>. 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, 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. 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](mailto:accessions@ices.dk), using the file names as described for each data type. Email subject should include reference to WKANGLER and COUNTRY.

---

<sup>1</sup><http://ices.dk/marine-data/Documents/Intercatch/IC-ExchangeFormat1-0.pdf>

<sup>2</sup> <http://dome.ices.dk/datsu/selRep.aspx?Dataset=76>

<sup>3</sup> [http://www.ices.dk/marine-data/Documents/Intercatch/Filemaker4\\_3.zip](http://www.ices.dk/marine-data/Documents/Intercatch/Filemaker4_3.zip)

## **Timing**

The deadline to deliver the data is 3 October 2017.

## **Contact points**

For support concerning the data call please contact: Sarah Millar ([sarah-louise.millar@ices.dk](mailto:sarah-louise.millar@ices.dk)) and the Advisory Department ([Advice@ices.dk](mailto:Advice@ices.dk)).

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

Metiers/Fleets
FPO_CRU_0_0_0_all
GNS_DEF_>=100_0_0
GNS_DEF_>=220_0_0_all
GNS_DEF_100-119_0_0_all
GNS_DEF_120-219_0_0
GNS_DEF_120-219_0_0_all
GNS_DEF_120-219_0_0_all_FDF
GNS_DEF_60-79_0_0
GNS_DEF_80-99_0_0
GNS_DEF_all_0_0_all
GTR_DEF_>=220_0_0_all
GTR_DEF_100-119_0_0_all
GTR_DEF_120-219_0_0_all
GTR_DEF_60-79_0_0
GTR_DEF_all_0_0_all
LLS_DEF_0_0_0
LLS_FIF_0_0_0_all
MIS_MIS_0_0_0
MIS_MIS_0_0_0_HC
MIS_MIS_0_0_0_IBC
OTB_CRU_100-119_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_70-99_0_0_all
OTB_CRU_90-119_0_0_all
OTB_CRU_90-119_0_0_all_FDF
OTB_CRU_All_0_0_All
OTB_DEF_>=120_0_0_all
OTB_DEF_>=120_0_0_all_FDF
OTB_DEF_>=55_0_0
OTB_DEF_>=70_0_0
OTB_DEF_100-119_0_0
OTB_DEF_100-119_0_0_all
OTB_DEF_70-99_0_0
OTB_DEF_70-99_0_0_all
OTB_MCD_>=55_0_0

OTB_MCF_>=70_0_0
OTB_MPD_>=55_0_0
OTB_MPD_>=70_0_0
OTT_DEF_>=70_0_0
OTT_DEF_100-119_0_0_all
PS_SPF_0_0_0
PTB_DEF_>=70_0_0
PTB_MPD_>=55_0_0
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
SSC_DEF_100-119_0_0_all
SSC_DEF_100-119_0_0_all_FDF
SSC_DEF_70-99_0_0_all
SSC_DEF_70-99_0_0_all_FDF
SSC_DEF_All_0_0_All
TBB_CRU_16-31_0_0_all
TBB_DEF_>=120_0_0_all
TBB_DEF_100-119_0_0_all
TBB_DEF_70-99_0_0_all
TBB_DEF_90-99_0_0_all

\* For fully documented fisheries add “\_FDF” after length class.

## Appendix 2 Commercial catch and sample data used in InterCatch.

Table HI. InterCatch Header Information fields.

Start/Order	Field Name	Width	Mandatory	Data Type
<b>HI Header Information</b>				
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
<b>SI Species Information</b>				
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
<b>SD Species Data (Sample Data)</b>				
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,197,0,-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
27.2	SubArea
27.2.a	Div
27.2.b	Div
27.1.b	Div
27.2.a.1	SubDiv
27.2.a.2	SubDiv
27.4	SubArea
27.4.a	Div
27.4.a.e	SubDiv
27.4.a.w	SubDiv
27.6	SubArea
27.3.a	Div
27.4.b	Div
27.4.c	Div
27.6.a	Div
27.6.b	Div
27.6.a.n	SubDiv
27.3.a.21	SubDiv
27.6.a.s	SubDiv
27.3.a.20	SubDiv
27.6.b.2	SubDiv
27.6.b.1	SubDiv
27.7.d	Div
27.7.e	Div
27.7.f	Div
27.7.b	Div
27.7.c	Div
27.7.g	Div
27.7.h	Div
27.7.j	Div
27.7.k	Div
27.8.a	Div
27.8.b	Div
27.8.d	Div
27.7.c.1	SubDiv
27.7.c.2	SubDiv
27.7.j.1	SubDiv
27.7.j.2	SubDiv

27.7.k.1	SubDiv
27.7.k.2	SubDiv
27.8.d.1	SubDiv
27.8.d.2	SubDiv
27.8.c	Div
27.9.a	Div
27.9.a.n	SubDiv
27.9.a.s	SubDiv
27.9.a.c.n	SubDiv
27.9.a.c.s	SubDiv
27.9.a.s.a	SubDiv
27.9.a.s.c	SubDiv