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Our Ref: L.27/ACB/sl 13 September 2017

Subject: Data call for ICES benchmark Workshop for North Sea stocks

Dear Reader

Please find enclosed a document describing the rationale, scope and technical details of this ICES data call for length or weight data for landings, discards, biological samples, and effort data for selected North Sea stocks.

The data will be used by the ICES benchmark workshop on North Sea stocks (WKNSEA 2018). The data can also be used for other future ICES activities in relation to fisheries management advice.

The data requested will be analysed and used only for scientific evaluation of the stock status and advice. For countries which are also EU Members States this data call is under the DCF regulation ((EC) No 199/2008). In case of questions please contact the ICES Secretariat (advice@ices.dk and scott.large@ices.dk) for clarification.

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: Jennifer Devine (WKNSEA chair)

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CIEM Conseil International pour l'Exploration de la Mer
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Data call: Data submission for ICES benchmark of selected stocks under WKNSEA 2018

Rationale

Together with the data already submitted by the ICES countries for the ICES Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK) meetings in 2017 and previous, this data call supports the work to be made during the ICES Benchmark Workshop for North Sea stocks (WKNSEA). The WKNSEA is a two stage process consisting of a data workshop (6–10 November 2017; Copenhagen, Denmark) and an assessment workshop (early 2018- date yet to be determined; Copenhagen, Denmark).

ICES guarantees personal data protection, in accordance with Directive 95/46/EC of the European Parliament and of the Council Regulation (EC) No 45/2001 of the European Parliament and of the Council, as referred to in Council Regulation (EC) No 199/2008.

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 flounder, lemon sole, whiting, and witch flounder (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 flounder, lemon sole, whiting and witch flounder (Table 1).

Table1: List of species

Stock code	Common name	Scientific name	Species code
fle.27.3a4	Flounder	*Platichthys flesus*	*FLE*
lem.27.3a47d	Lemon sole	*Microstomus kitt*	*LEM*
whg.27.47d	Whiting	*Merlangius merlangus*	*WHG*
wit.27.3a47d	Witch flounder	*Glyptocephalus cynoglossus*	*WIT*

Geographical scope for each species is found in Table 2.

Table 2. List of ICES areas by stock

Stock code	Area code
fle.27.3a4	27.3.a, 27.3.a.20, 27.3.a.21, 27.4, 27.4.a, 27.4.b, 27.4.c
lem.27.3a47d	27.3.a, 27.3.a.20, 27.3.a.21, 27.4, 27.4.a, 27.4.b, 27.4.c, 27.7.d
whg.27.47d	27.4, 27.4.a, 27.4.b, 27.4.c, 27.7.d
wit.27.3a47d	27.3.a, 27.3.a.20, 27.3.a.21, 27.4, 27.4.a, 27.4.b, 27.4.c, 27.7.d

Outputs

The output of the benchmark workshop is to agree with specific data sets and stock assessment methodology for each stock to be used to provide fisheries management advice.

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 measurements from a given quarter and year should be included, not age measurements used to fill gaps in age length keys. Data submitters should check if all the data requested is available in InterCatch, and not only the landings. Ensure that the format and metier/fleet definitions are exactly the same as described in Appendix 1. 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* that no data had to be submitted for the Country in question.
- If corrections are needed for data already previously submitted to WGNSSK, then update the data in InterCatch. In this case please inform Scott Large (*scott.large@ices.dk*) and the Advisory Department (*Advice@ices.dk*).

Additional data to report depending on the stock are described in the following. Each country should send all their data files in one email, naming the files as below:

Flounder

- 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*. File name should be "WKNSEA_FLE_[COUNTRY]_tagging".
- Biological data (maturity/weight at age/length data), which are not already included in *DATRAS*. (Proportion of mature individuals per age/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*. File name to *accessions* should be "WKNSEA_FLE_[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 (e.g. SNS, DFS, DYFS) that can be used to derive relative abundance indices. 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.* File name should be "WKNSEA_FLE_ [COUNTRY]_national surveys".

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.

Lemon sole

- Maturity at age/length data which are not already included in *DATRAS*. (Proportion of mature individuals per age/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*. File name to *accessions*

should be "WKNSEA_LEM_[COUNTRY]_maturity". Maturity at age data based on commercial samplings can also be uploaded in InterCatch together with other age based information.

- Any data on natural mortality per age (e.g., from tagging studies). Information/data should be sent directly to accessions@ices.dk. The file name should be "WKNSEA_LEM _[COUNTRY]_natural mortality".

Additional information to the extent possible:

- Currently, assessment uses catch weights from fishery as stock weights. Stock weights from fisheries-independent sources is needed, to be sent directly to accessions@ices.dk. The file name should be "WKNSEA_ LEM _[COUNTRY]_stock weights".
- Estimates of discards survival would be useful information for the benchmark and should be sent directly to accessions@ices.dk. The file name should be "WKNSEA_ LEM _[COUNTRY]_discard survival".

Whiting

- Maturity at age/length data which are not already included in *DATRAS*. (Proportion of mature individuals per age/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. The file name to *accessions* should be "WKNSEA_WHG_[COUNTRY]_maturity". Maturity at age data based on commercial samplings can also be uploaded in InterCatch together with other age based information.
- Any data on natural mortality per age (e.g., from tagging studies). Information/data should be sent directly to accessions@ices.dk. The file name should be "WKNSEA_WHG _[COUNTRY]_natural mortality".

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.

Witch flounder

- Maturity at age/length data which are not already included in *DATRAS*. (Proportion of mature individuals per age/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. The file name to *accessions* should be "WKNSEA_WIT_[COUNTRY]_maturity". Maturity at age data based on commercial samplings can also be uploaded in InterCatch together with other age based information.

How to upload 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..

Electronic Submissions

Use the following link: http://intercatch.ices.dk for uploading to InterCatch. The non-standard data should be sent to accessions@ices.dk.

Timing

The deadline to deliver the data is 16 October 2017.

Contact points

For support concerning the data call please contact: Scott Large (*scott.large@ices.dk*) and the Advisory Department (*Advice@ices.dk*).

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

For support concerning other data issues, please contact: *accessions@ices.dk*

Conversions to InterCatch Format

A description of the InterCatch Exchange format is found in the InterCatch User Manual[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, 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.

[1] http://www.ices.dk/marine-data/Documents/Intercatch/InterCatch%20User%20Manual%20Doc1-11.pdf
[2] http://dome.ices.dk/datsu/selRep.aspx?Dataset=76
[3] http://www.ices.dk/marine-data/Documents/Intercatch/Filemaker4_3.zip

Appendix 1 List of Metiers/Fleets

Gear coding as defined under the DCF. Codes made available match those in the WGNSSK-WGMIXFISH data call and are shown in the left hand column and are based on information from countries fishing in Subarea 4, Division 7.d, and Subdivision 3.a about significant fishing gears.

Area[4]	Gear type	Available metier tags *
Division 3.a (Skagerrak and Kattegat)	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
		GTR_DEF_all_0_0_all
	Lines	LLS_FIF_0_0_0_all
		LLS_FIF_0_0_0_all_FDF
	Others (Human consumption)	MIS_MIS_0_0_0_HC
	Others (Industrial fisheries)	MIS_MIS_0_0_0_IBC
Subarea 4.a – (North Sea) & Division 7.d (Eastern Channel)	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
	Seines	SDN_DEF_>=120_0_0_all
		SDN_DEF_>=120_0_0_all_FDF

[4] Area codes in InterCatch are in Roman numbers.

Area[4]	Gear type	Available metier tags *
		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
		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 fisheries)	MIS_MIS_0_0_0_IBC

* For fully documented fisheries add "_FDF" after length class.

Mesh size categories below are those permitted under the DCF. Data should be provided according to the categories below or aggregations of the categories below.
If data is aggregated over categories the most significant category is entered e.g. a mobile gear with mesh sizes covering 70–119 mm (combining 70–99, and 100–119) but 70–99 mm is most significant receives code 70–99.

Gear type	Area	Code
Mobile gears	Subarea 4 and divisions 7.d-e and 3.a	<16
		16-31
		32-69
		70-89
		90-119
		>=120
Passive gears	Subarea 4 and divisions 7.d-e and 3.a	10-30
		50-70
		90-99
		100-119
		120-219
		>=220

Selectivity devices are defined under the DCF as follows

Description	Code
None mounted	0
Exit window/selection panel	1
Grid	2
Unknown	3

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,197,0,-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 codes	AreaType code
27.3.a	Div
27.3.a.20	SubDiv
27.3.a.21	SubDiv
27.4	SubArea
27.4.a	Div
27.4.b	Div
27.4.c	Div
27.7.d	Div