Annex 16: DYFS to DATRAS workshop 6-6-2011

The suggestions made in the text below, are also supplied to ICES Data Centre as an Excel file.

HH fields

Quarter:

As the DYFS is an autumn survey, some of the samples are in the 3rd and some in the 4th quarter. For this, there is a strong wish to upload all data in the same file. As DATRAS cannot handle two quarters in the same file, it is recommended that 'quarter' is considered as a fixed value for a specific survey, and not create an error message when the month is outside the quarter.

Country:

ICES Data Centre explained that discrepancies in country codes between different databases will be solved in due time, when ICES Data Centre will move to ISO codes for country.

Countries involved in DYFS are BEL, ENG, GFR and NED.

Ship:

Country	Ship	Code	Source
BEL	Broodwinner	11BR	SHIPC_SeaDataNet
ENG	**various commercial vessels**		
GFR	**various commercial vessels**		
NED	Isis	ISI	TS_Ship
NED	**two commercial vessels (historical data)**		
NED	Stern	64ST	SHIPC_SeaDataNet
NED	**Schollevaar**		

The ships that do not have a code (in **bold**), should be added by the responsible country via http://www.ices.dk/Data Centre/requests/Login.aspx It is recommended that a call sign or IMO number is added to guarantee unique values.

Gear:

It was decided by the group to put the gears used under the 'beam trawls' and not to take push nets into account.

Country	Gear	Ship
BEL	BT6	Broodwinner
ENG	BT2	
GFR	BT3	
NED	BT6	Isis and 2 commercial vessels (coastal zone)
NED	BT3	Stern, Schollevaar (Scheldt estuary and Wadden Sea)

Stratum:

As the DYFS indices are weighted by DYFS area codes, WGBEAM should supply a table to ICES Data Centre containing the total m² per stratum.

The stratum list is:

Country	Stratum	Comment
BEL	400	Coastal zone
GFR	405, 406, 410, 411, 412, 414	Coastal zone and Wadden Sea
NED	401, 402, 403, 404, 405	Coastal zone
NED	610, 612, 616, 617, 618, 619, 620	Wadden Sea
NED	634, 638	Scheldt estuary
ENG	1-21, 71	see Excel file for description

Statrec:

As statrec is not recorded by all countries, the survey is not stratified by statrec and the risk of extrapolation of inshore data to the complete statistical rectangle by inexperienced users is high, this should not be a mandatory field.

HaulVal:

It was decided that V (valid), I (invalid) and A (additional) are allowed values for this field.

StdSpecRecCode:

Originally, the survey was set up for 0 and 1-year old plaice and sole, and for brown shrimp. Those are the standard species (to be used for index calculation).

BycSpecRecCode:

Additional options:

- open ended fish list and no benthos, except for shrimp (mainly ENG)
- closed fish list (commercial species) and no benthos, except for shrimp (BEL)
- (commercial species include sharks, rays, cod, whiting, gurnards, horse mackerel, mackerel, turbot, brill, dab, plaice, flounder, lemon sole, sole)

It is recommended that WGBEAM provides a closed benthos list for the DYFS, in order to use BycSpecRecCode 6 for fully sampled hauls.

Rigging:

In the DYFS, the rigging is different from the other beam trawl surveys. The existing combination, are:

Country	Rigging
BEL	Bobbin, mixed metal-nylon groundrope
ENG	Tickler
GFR	Bobbin, nylon groundrope
NED	Bobbin, tickler, chain groundrope

Additional fields:

Country	Unit	Range
Tidal phase	mins before next high tide	0-780
Tide speed	m/s	0-4
Mesh opening codend	mm	4-24
Secchi depth	m	0-5
Turbidity	NTU	200-2000

2) HL fields

SpecCode:

ICES Data Centre will change to WoRMS coding system from 3rd quarter 2011 on-wards. It is therefore recommended that ICES Data Centre as soon as possible provides a list of species that are currently in DATRAS, containing the scientific name, the TSN code and the WoRMS code, to all data submitters.

SpecVal:

It is recommended that when 5 is reported for this field, -9 is allowed in nomeas and totalno.

Additional requests:

Value	Description
6	Only volume (litre) registered
7	Only weight (gram) registered

LngtCode:

It is recommended that WGBEAM incorporates the description from the IBTS manual in the DYFS and BTS manual.

Additional fields:

Description	Unit	Options
Maturity	no	B (Berried, for crustaceans)
		E (Egg, for elasmobranchs)

As a result, the option B (Berried) could be deleted from the TS_SexCode

3) CA fields

Area type:

Add 2 new area types: DYFS continental index areas and DYFS ENG index areas

Area code:

See stratum list

Plus group:

Will be used in this format.

Additional fields:

As GFR data are aged based on length, and the other data by otolith reading, it would be useful to be able to track the age determination method.

Description	Coding
Age determination method	AGDET

4) Field checks

Demersal Young fish survey (DYFS-DATRAS): new or updated field checks, change of error type as adopted by WGBEAM inshore 06-06-2011

The original checks were derived from BTS-DATRAS. If no comment made, the BTS-DATRAS checks can be used.

Explanation of colour-coding:

Blue: change in check description or error type

Green: add check (derived from NS-IBTS < 2004)

Pink: add check (newly created)

Red: delete check

Yellow: recommendation in WGBEAM 2011 report

Field Checks: HH Haul Information

Position	Field	Check Description	Error Type
2	Quarter	Quarter is not consistent with Month	warning
16	HaulDur	Not in the range specified Lower: 5.000000000000 Upper: 30.000000000000	warning
18	ShootLat	Not in the range specified Lower: 50.000000000000 Upper: 56.500000000000	warning
18	ShootLat	The position is recorded on land	warning
18	ShootLat	There is no statistical rectangle matching the hauling position	warning
19	ShootLong	Not in the range specified Lower: -4.000000000000 Upper: 9.000000000000	warning
20	HaulLat	Not in the range specified Lower: 50.000000000000 Upper: 56.500000000000	warning
20	HaulLat	The position is recorded on land	warning
21	HaulLong	Not in the range specified Lower: -4.000000000000 Upper: 9.000000000000	warning
23	Depth	Not in the range specified Lower: 2.000000000000 Upper: 35.000000000000	warning

31	Tickler	Not in the range specified Lower: 0.000000000000 Upper: 3.000000000000	warning
32	Distance	Not in the range specified Lower: 250.000000000000 Upper: 4000.000000000000	warning
32	Distance	If -9 then groundspeed cannot be -9	error
33	Warplngt	Not in the range specified Lower: 10.000000000000 Upper: 100.000000000000	warning
44	Ground-Speed	Not in the range specified Lower: 0.800000000000 Upper: 4.000000000000	warning
45	SpeedWater	Not in the range specified Lower: 0.800000000000 Upper: 4.000000000000	warning
51	WindSpeed	Not in the range specified Lower: 0.000000000000 Upper: 20.000000000000	warning
53	SwellHeight	Not in the range specified Lower: 0.000000000000 Upper: 2.000000000000	warning
55	BotTemp	Not in the range specified Lower: 1.000000000000 Upper: 30.000000000000	warning
56	SurSal	Not in the range specified Lower: 8.000000000000 Upper: 40.000000000000	warning
57	BotSal	Not in the range specified Lower: 8.000000000000 Upper: 40.000000000000	warning

Field Checks: HL Length frequency distribution

Position	Field	Check Description	Error Type
22	LngtCode	A length plus group is found - the LngtCode must therefore be 9	error

Field Checks: CA SMALK

Position	Field	Check Description	Error Type
16	LngtCode	A length plus group is found - the LngtCode must therefore be 9	error
17	LngtClass	Not in the range specified Lower: 1.00000000000 Upper: 500.000000000000	warning
20	PlusGr	Not used in this format	error
20	PlusGr	Per haul, species and length class only the oldest age group can be PlusGr	error

20	PlusGr	If a plus group is defined per haul/area and species then all records for this species with age => than the plus group must contain the plus identifier	error
21	AgeRings	Not in the range specified Lower: 0.000000000000 Upper: 9.000000000000	warning
23	IndWgt	Not in the range specified Lower: 1.000000000000 Upper: 1000.000000000000	warning