PostgeSQL database mydas_dev

data_faocodes (includes price – source Hans Gerritsen Marine Institute)

	Variable name	Type	Description
1	species_fao	Character	e.g. BLL, SPR, LIN, GUG, SKA, POK, POL,TUR, JOD.
2	scientific_name	Character	Latin names e.g. *Sprattus sprattus*.
3	english_name	Character	Sprat.
4	speciesgroup	Character	e.g. ANG, MON, ANF = Monkfish.
5	priceperkg	Double	Irish market prices 2015.

data_icesrects (source ICES web site)

	Variable name	Type	Description
1	longitude	Double	Decimal degrees
2	latitude	Double	Decimal drees
3	ices_rectangle	Character	ICES Rectangle code
4	area_km2	Integer	Area of ICES rectangle.
5	ecoregion	Character	Ecological region

data_icesrects_div (source ICES website)

	Variable name	Type	Description
1	area_27	Character	FAO area code and division notation, i.e. 10.a.1
2	ices_rectangle	Character	ICES Rectangle code
3	ices_division	Character	ICES division.

data_lhistories (life histories of MYDAS species sourced from literature)

	Variable name	Type	Description
1	species	Character	Latin name.
2	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.
3	sex	Character	Code for sex of individual fish i.e. M = Male, F=Female, U=Unsexed
4	t.0	Double	Time at which fish is at 0 length
5	linf	Double	Asymptotic maximum length (cm)
6	k	Double	Growth rate.
7	tm	Double	Age at maturity
8	lmat	Double	Length at maturity (cm)
9	area	Character	Area experiment was performed i.e. North Sea etc.
10	source	Character	Reference from literature source (table on shiny)

data_psa_default (life histories (above) of MYDAS species together with this table produce interactive page for shiny app for year 2015)

	Variable name	Type	Description
1	stock	Character	i.e. Speciesgroup BLL.7 for area 7 catching BLL.
2	gear	Character	Beam, Otter etc..
3	speciesgp	Character	e.g. grouping blue ling and common ling into 1 variable BLI, LIN = LIN.
4	totland	Double	Total landings in tonnes.
5	totfleetarea	Double	Total area gear went km^2
6	stockarea	Double	Total area for the stock
7	olap_percent	Double	Totfleetarea/ stockarea x 100
8	price	Double	Price per kg of the species
9	score_olap	Integer	1 to 3 overlap score 3 is high susceptibility.
10	score_price	Integer	1 to 3 price score 3 is high susceptibility.
11	score_catch	Integer	1 to 3 catachability 3 is high susceptibility.
12	score_postc	Integer	1 to 3 post capture mortality 3 is high susceptibility.
13	tm_score	Integer	1 to 3 ages at maturity 1 is high productivity.
14	fec_score	Integer	1 to 3 fecundity score 1 is high productivity.
15	repro_score	Integer	1 to 3 reproductive score 1 is high productivity.
16	troph_score	Integer	1 to 3 trophic level score 1 is high productivity.
17	lmat_score	Integer	1 to 3 length at maturity score 1 is high productivity.
18	linf_score	Integer	1 to 3 asymptotic maximum length 1 is high productivity.

data_speciescodes (look up table)

	Variable name	Type	Description
1	species_fao	Character	Species FAO codes for MYDAS species
2	scientific_name	Character	Latin names e.g. *Sprattus sprattus*
3	english_name	Character	Sprat.
4	speccode	Integer	WORMS code
5	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.

data_stecf_aer_cpuedays (summary table to calculate cpue for shiny app from STECF annual economic report)

	Variable name	Type	Description
1	year	Integer	Year of fishing activity
2	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.
3	country_code	Character	ESP = Spain etc. See appendix
4	gear_type	Character	Fishing activity etc BEAM = beam trawl see appendix.
5	vessel_length	Character	Length of fishing boat.
6	totval	Double	Total value in Euros (€)
	totctch	Double	Total catch in tonnes (t)
	totdays	Double	Total days fished.

data_stecf_aer_econ (summary table to calculate cpue for shiny app from STECF annual economic report)

	Variable name	Type	Description
1	year	Integer	Year of fishing activity
2	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.
3	country_code	Character	ESP = Spain etc. See appendix
	country_name	Character	Spain
4	fishing_tech	Character	Fishing activity cluster constructed fleet segment. See AER report.
5	variable_name	Character	e.g. vessel tonnage.
6	variable_code	Character	Total vessel tonnage = totgt
	value	Double	Value of variable code

data_stecflandings (just for mydas species/areas) and (data_otherstecflandings – all species)

	Variable name	Type	Description
1	annex	Character	??
2	area	Character	ICES area see appendix below
3	country	Character	ESP = Spain etc. See appendix
4	fishery	Character	??
5	gear	Character	Fishing gear
6	landings	Double	Landings in tonnes
7	mesh	Character	Meshsize range e.g. 100-119
8	quarter	Integer	Given as 1-4
9	ices_rectangle	Character	ICES Rectangle code
10	regulated_area	Character	??
11	regulated_gear	Character	???
12	species	Character	3 letter FAO code
13	specon	Character	???
14	length	Character	Vessel length
15	year	Integer	Year of fishing
16	division	Character	ICES division
17	stock	Character	Mydas stock grouping
18	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.
19	longitude	Double	Midpoint of ices rectangle
20	latitude	Double	Midpoint of ices rectangle
21	area_km2	Integer	Area of ICES rectangle
22	ecoregion	Character	Ecological region

data_stockprior (summary table resulting from PSA and economic weighting – see stock prioritisation code on mydas wiki)

	Variable name	Type	Description
1	year	Character	Year of fishing
2	country	Character	Country i.e ESP
3	gear	Integer	Fishing gear i.e BEAM.

4	rank	Double	Weighted ranked vulnerability
5	value	Double	Total value of catch in €
6	speciesgp	Character	e.g. grouping blue ling and common ling into 1 var BLI, LIN = LIN.

div_area (also geometric table for shiny called ices areas shapefile)

	Variable name	Type	Description
1	subarea	Integer	3, 4, 5 etc..
2	subdiv	Character	d, e, f, g… etc.
3	area_full	Character	Full code for ICES area
4	area_27	Character	Full code for ICES area 27 (North Atlantic)
5	area_km2	Double	Area of sub region in km2
6	division	Character	ICES division.

For tables data_surveybio/data_surveystns (see DATRAS @ ICES)

Appendix 1 Country coding

COUNTRY	CODE
Belgium	BEL
Denmark	DEN
Estonia	EST
Finland	FIN
France	FRA
Germany	GER
Ireland	IRL
Latvia	LAT
Lithuania	LIT
Netherlands	NED
Norway	NOR
Poland	POL
Portugal	POR
Spain	SPN
Sweden	SWE
United Kingdom (Jersey)	GBJ
United Kingdom (Guernsey)	GBG
United Kingdom (Alderny/Sark/Herm)	GBC
United Kingdom (England and Wales)	ENG
United Kingdom (Isle of Man)	IOM
United Kingdom (Northern Ireland)	NIR
United Kingdom (Scotland)	SCO
Other countries	OTH

Appendix 2 Gear coding

TYPES OF FISHING TECHNIQUES			Gear code
Mobile gears	Beam trawl		BEAM
	Demersal trawl & demersal seine	Bottom trawl	OTTER
		Danish & Scottish seiners	DEM_SEINE
	Pelagic trawl & Seiners	Pelagic Trawl	PEL_TRAWL

		Pelagic seiner & purse seiner	PEL_SEINE
	Dredges		DREDGE
Passive gears	Longlines		LONGLINE
	Drift & fixed Nets except Trammel Nets		GILL
	Trammel Nets		TRAMMEL
	Pots & traps		POTS

Appendix 3 Mesh size coding

Gear type	Mesh size range
Mobile gears	<16
	16-31
	32-54
	55-69
	70-79
	80-89
	90-99
	100-119
	>=120
Passive gears	10-30
	50-59
	60-69
	70-79
	80-89
	90-99
	100-109
	110-119
	120-219
	>=220

Appendix 4 Area coding by WG, ICES Division and IBSFC areas for Baltic

North Sea, Skagerrak, Kattegat and Eastern Channel
2 EU
3an
3as
4
6an
7d

Northern Shelf
2
3a
5a
5b
6a
6b
7a

Southern Shelf
7b
7c
7e
7f
7g
7h
7j
7k
8a
8b
8c
8d
8e
9a
9b
10