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DATRAS Specification Document

Units in DATRAS Products

Contents

Exchange Data

Exchange data is the product for all surveys, and includes data as reported by the national institutes. Some of the surveys have additional fields, not used in the majority of surveys. This list includes all possible fields from DATRAS surveys in the exchange data download. Fields are enlisted in order of appearance in the downloaded file, merged for all record types. For survey-specific list of records and fields with correct reference codes, please address DATRAS Reporting format.

Field name	Units/codes description
RecordType	http://vocab.ices.dk/?ref=191
Survey	Abbreviation as in http://vocab.ices.dk/?ref=102
Quarter	http://vocab.ices.dk/?ref=12
Country	http://vocab.ices.dk/?ref=4
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
SweepLngt	Metres
GearExp	http://vocab.ices.dk/?ref=97
DoorType	http://vocab.ices.dk/?ref=98
StNo	National station code/number
HaulNo	Numeric value
Year	Calendar year, yyyy
Month	http://vocab.ices.dk/?ref=13
Day	Calendar day of the month, dd
TimeShot	GMT, hhmm
Stratum	http://vocab.ices.dk/?ref=99
HaulDur	Minutes
DayNight	http://vocab.ices.dk/?ref=8
ShootLat	Degree.Decimal Degree of latitude
ShootLong	Degree.Decimal Degree of longitude
HaulLat	Degree.Decimal Degree of latitude
HaulLong	Degree.Decimal Degree of longitude
StatRec	http://gis.ices.dk/sf/
Depth	Metres; Bottom depth, (which, in case of bottom trawling equals Trawling depth)
HaulVal	http://vocab.ices.dk/?ref=1
HydroStNo	National code for hydrographic station, if applicable
StdSpecRecCode	http://vocab.ices.dk/?ref=88
BycSpecRecCode	http://vocab.ices.dk/?ref=89
DataType	http://vocab.ices.dk/?ref=9
Netopening	Metres
Rigging	http://vocab.ices.dk/?ref=181
Tickler	http://vocab.ices.dk/?ref=182
Distance	Metres
Warplngt	Metres
Warpdia	Millimetres
WarpDen	Kg per linear metre
DoorSurface	Square metres
DoorWgt	Kilograms
DoorSpread	Metres
WingSpread	Metres

Buoyancy	Kilograms
KiteDim	Square metres
WgtGroundRope	Kilograms
TowDir	Degrees
GroundSpeed	Knots
SpeedWater	Knots
SurCurDir	Degrees
SurCurSpeed	Metres/second
BotCurDir	Degrees
BotCurSpeed	Metres/second
WindDir	Degrees
WindSpeed	Metres/second
SwellDir	Degrees
SwellHeight	Metres
SurTemp	Celsius degrees
BotTemp	Celsius degrees
SurSal	Practical Salinity Units (PSU)
BotSal	Practical Salinity Units (PSU)
ThermoCline	http://vocab.ices.dk/?ref=112
ThClineDepth	Metres
CodendMesh	Millimetres
SecchiDepth	Metres
Turbidity	NTU
TidePhase	Minutes
TideSpeed	Metres/second
PelSampType	http://vocab.ices.dk/?ref=1391
MinTrawlDepth	Metres
MaxTrawlDepth	Metres
DateofCalculation	YYYYMMDD, when the product was updated in the database
SpecCodeType	http://vocab.ices.dk/?ref=96
SpecCode	http://datras.ices.dk/Data_products/qryspec.aspx
SpecVal	http://vocab.ices.dk/?ref=5
Sex	http://vocab.ices.dk/?ref=17
TotalNo	Number of fish
CatIdentifier	http://vocab.ices.dk/?ref=16
NoMeas	Number of fish
SubFactor	Factor of subsampling
SubWgt	Grams
CatCatchWgt	Grams
LngtCode	http://vocab.ices.dk/?ref=18
LngtClass	Length class in mm for mm and ½-cm classes, in cm for cm classes
HLNoAtLngt	Number of fish
DevStage	http://vocab.ices.dk/?ref=1397
LenMeasType	http://vocab.ices.dk/?ref=1392
ValidAphiaID	Valid WoRMS AphiaID for the reported species code as in WoRMS
AreaType	http://vocab.ices.dk/?ref=10

AreaCode	Check related references for AreaType and relevant dataset in the ICES vocabulary server
Maturity	http://vocab.ices.dk/?ref=128
PlusGr	http://vocab.ices.dk/?ref=14
AgeRings	Years
CANoAtLngt	Number of fish
IndWgt	Grams
FishID	Sample ID assigned by the national lab.
GenSamp	http://vocab.ices.dk/?ref=1390
StomSamp	http://vocab.ices.dk/?ref=1390
ParSamp	http://vocab.ices.dk/?ref=1390
AgeSource	http://vocab.ices.dk/?ref=1393
AgePrepMet	http://vocab.ices.dk/?ref=1394
OtGrading	http://vocab.ices.dk/?ref=1395

Litter Exchange Data

DATRAS bottom trawl survey litter data download include both HH (haul) and LT (litter) data records. Records can be mapped to each other by the key values like Survey, Year, Quarter, Country, Ship, and Gear. Fields for the HH records are described in the table above. LT fields are as below.

For additional information on fields in the litter record, please refer to
http://dome.ices.dk/datsu/selRep.aspx?Dataset=122

Field name	Units/codes description
RecordType	http://vocab.ices.dk/?ref=191
Quarter	http://vocab.ices.dk/?ref=12
Country	http://vocab.ices.dk/?ref=4
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
Survey	Abbreviation as in http://vocab.ices.dk/?ref=102
Reserved1	System-reserved field, default value -9
Reserved2	System-reserved field, default value -9
StNo	National station code/number
HaulNo	Numeric value
Year	Calendar year, yyyy
LTREF	Litter reference list. http://vocab.ices.dk/?ref=1381
PARAM	Refer to http://vocab.ices.dk/ for the complete list of codes for the given LTREF
LTSZC	Litter size category http://vocab.ices.dk/?ref=1380
UnitWgt	Units used for reporting the next field http://vocab.ices.dk/?ref=1421
LT_Weight	Litter weight, see prev. field for units
UnitItem	Units used for reporting the next field http://vocab.ices.dk/?ref=1422
LT_Items	Number of litter items, see prev. field for units
LTSRC	Litter source, http://vocab.ices.dk/?ref=1382
TYPPL	Type of polymer, http://vocab.ices.dk/?ref=1385
LTPRP	Additional litter properties, http://vocab.ices.dk/?ref=1403

CPUE per length per haul

(Product for standard and other species)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
HaulNo	Numeric value
HaulDur	Duration in minutes
ShootLat	Degree.Decimal Degree of latitude
ShootLong	Degree.Decimal Degree of longitude
DateTime	As dd/mm/yyyy hh:mm:ss (Note: this format can be automatically altered by Excel)
Depth	Metres
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
SubArea	Depth stratum code or ICES statistical rectangle
DayNight	http://vocab.ices.dk/?ref=8
AphiaID	http://www.marinespecies.org/
Species	Latin name
Sex	http://vocab.ices.dk/?ref=17
LngtClass	In millimetres
CPUE_number_per_hour	Catch in numbers per hour of hauling
DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per length per area

(Product for standard and other species)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Area	http://vocab.ices.dk/
AphiaID	http://www.marinespecies.org/
Species	Latin name
LngtClass	Millimetres
CPUE_number_per_hour	Catch in numbers per hour of hauling
DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per length per subarea

(Product for standard and other species)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
SubArea	Depth stratum code or ICES statistical rectangle
AphiaID	http://www.marinespecies.org/
Species	Latin name
LngtClass	Millimetres
CPUE_number_per_hour	Catch in numbers per hour of hauling
DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per age per haul

(Product for standard survey species only)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
HaulNo	Numeric value
ShootLat	Degree.Decimal Degree of latitude
ShootLong	Degree.Decimal Degree of longitude
DateTime	As dd/mm/yyyy hh:mm:ss (Note: this format can be automatically altered by Excel)
Depth	Metres
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
SubArea	Depth stratum code or ICES statistical rectangle
DayNight	http://vocab.ices.dk/?ref=8
AphiaID	http://www.marinespecies.org/
Species	Latin name
Sex	http://vocab.ices.dk/?ref=17
Age_0	Catch in numbers per hour
Age_1	Catch in numbers per hour
Age_2	Catch in numbers per hour
Age_3	Catch in numbers per hour
Age_4	Catch in numbers per hour
Age_5	Catch in numbers per hour
Age_6	Catch in numbers per hour
Age_7	Catch in numbers per hour
Age_8	Catch in numbers per hour
Age_9	Catch in numbers per hour
Age_10	Catch in numbers per hour
DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per age per area

(Product for standard survey species only)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
AphiaID	http://www.marinespecies.org/
Species	Latin name
Age_0	Catch in numbers per hour
Age_1	Catch in numbers per hour
Age_2	Catch in numbers per hour
Age_3	Catch in numbers per hour
Age_4	Catch in numbers per hour
Age_5	Catch in numbers per hour
Age_6	Catch in numbers per hour
Age_7	Catch in numbers per hour
Age_8	Catch in numbers per hour
Age_9	Catch in numbers per hour
Age_10	Catch in numbers per hour
DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per age per subarea

(Product for standard survey species only)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
SubArea	Depth stratum code or ICES statistical rectangle
AphiaID	http://www.marinespecies.org/
Species	Latin name
Age_0	Catch in numbers per hour
Age_1	Catch in numbers per hour
Age_2	Catch in numbers per hour
Age_3	Catch in numbers per hour
Age_4	Catch in numbers per hour
Age_5	Catch in numbers per hour
Age_6	Catch in numbers per hour
Age_7	Catch in numbers per hour
Age_8	Catch in numbers per hour
Age_9	Catch in numbers per hour
Age_10	Catch in numbers per hour

DateofCalculation	Last date the product was calculated in YYYYMMDD

CPUE per length per hour and swept area

(Product for standard and other species - BTS)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Quarter	http://vocab.ices.dk/?ref=12
Country	http://vocab.ices.dk/?ref=4
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
SweepLngt	Metres
GearExp	http://vocab.ices.dk/?ref=97
DoorType	http://vocab.ices.dk/?ref=98
StNo	National station code/number
HaulNo	Numeric value
Year	Calendar year, yyyy
Month	Calendar month, mm
Day	Calendar day of the month, dd
TimeShot	GMT, hhmm
Stratum	http://vocab.ices.dk/?ref=99
HaulDur	Minutes
DayNight	http://vocab.ices.dk/?ref=8
ShootLat	Degree.Decimal Degree of latitude
ShootLong	Degree.Decimal Degree of longitude
HaulLat	Degree.Decimal Degree of latitude
HaulLong	Degree.Decimal Degree of longitude
StatRec	http://gis.ices.dk/sf/
Depth	Metres; Bottom depth, which, in case of bottom trawling equals Trawling depth
HaulVal	http://vocab.ices.dk/?ref=1
StdSpecRecCode	http://vocab.ices.dk/?ref=88
BycSpecRecCode	http://vocab.ices.dk/?ref=89
DataType	http://vocab.ices.dk/?ref=9
Netopening	Metres
Rigging	http://vocab.ices.dk/?ref=181
Tickler	http://vocab.ices.dk/?ref=182
Distance	Metres
Warplngt	Metres
TowDir	Degrees
WindDir	Degrees
WindSpeed	Metres/second
SwellDir	Degrees
SwellHeight	Metres
ICESArea	ICES statistical area
AphiaID	http://www.marinespecies.org/
Species	Latin name
SpecVal	http://vocab.ices.dk/?ref=5

Sex	http://vocab.ices.dk/?ref=17
SubFactor	Factor of subsampling
LngtClass	Millimetres
HLNoAtLngt	Number of fish at length, http://datras.ices.dk/Data_products/FieldDescription.aspx?Fields=HLNoAtLngt&SurveyID=2341
NoPerHaul	Number of fish per haul
BeamWidth	Metres
DistanceDerived	Metres
CPUE_number_per_hour	Catch in numbers per hour of hauling
SweptArea_km2	Square kilometre
CPUE_number_per_km2	Catch in numbers per square kilometre

SMALK (non-BTS surveys)
(Product for standard and other species)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Country	http://vocab.ices.dk/?ref=4
Quarter	http://vocab.ices.dk/?ref=12
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
AphiaID	http://www.marinespecies.org/
Species	Latin name
LngtClass	Millimetres
PlusGr	http://vocab.ices.dk/?ref=14
Age	Years
Sex	http://vocab.ices.dk/?ref=17
Maturity	http://vocab.ices.dk/?ref=128
IndWgt	Grams
CANoAtLngt	Catch in numbers per hour
DateofCalculation	Last date the product was calculated in YYYYMMDD

SMALK (BTS)
(Product for standard and other species in BTS surveys)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Ship	http://vocab.ices.dk/?ref=3
AphiaID	http://www.marinespecies.org/
Species	Latin name
LngtClass	Millimetres
Sex	http://vocab.ices.dk/?ref=17
Maturity	http://vocab.ices.dk/?ref=128

Age_0	Catch in numbers per hour
Age_1	Catch in numbers per hour
Age_3	Catch in numbers per hour
Age_4	Catch in numbers per hour
Age_5	Catch in numbers per hour
Age_6	Catch in numbers per hour
Age_7	Catch in numbers per hour
Age_8	Catch in numbers per hour
Age_9	Catch in numbers per hour
Age_10	Catch in numbers per hour

ALK

(Product for standard species only)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
Area	Survey-related area. Check http://vocab.ices.dk/ and Survey Maps for more information
AphiaID	http://www.marinespecies.org/
Species	Latin name
LngtClass	Millimetres
Age_0	Number of fish
Age_1	Number of fish
Age_2	Number of fish
Age_3	Number of fish
Age_4	Number of fish
Age_5	Number of fish
Age_6	Number of fish
Age_7	Number of fish
Age_8	Number of fish
Age_9	Number of fish
Age_10	Number of fish
DateofCalculation	Last date the product was calculated in YYYYMMDD

Indices

(Product for standard species only)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
AphiaID	http://www.marinespecies.org/
Species	Latin name
IndexArea	http://vocab.ices.dk/?ref=162
Sex	http://vocab.ices.dk/?ref=17
PlusGr	http://vocab.ices.dk/?ref=14
Age_0	Number per hour per area for standard gear
Age_1	Number per hour per area for standard gear
Age_2	Number per hour per area for standard gear
Age_3	Number per hour per area for standard gear
Age_4	Number per hour per area for standard gear
Age_5	Number per hour per area for standard gear
Age_6	Number per hour per area for standard gear
Age_7	Number per hour per area for standard gear
Age_8	Number per hour per area for standard gear
Age_9	Number per hour per area for standard gear
Age_10	Number per hour per area for standard gear
Age_11	Number per hour per area for standard gear
Age_12	Number per hour per area for standard gear
Age_13	Number per hour per area for standard gear
Age_14	Number per hour per area for standard gear
Age_15	Number per hour per area for standard gear
DateofCalculation	Last date the product was calculated in YYYYMMDD

Bootstrap data
(Product for standard species only – NS-IBTS)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
AphiaID	http://www.marinespecies.org/
Species	Latin name
IndexArea	http://vocab.ices.dk/?ref=162
Sex	http://vocab.ices.dk/?ref=17
PlusGr	http://vocab.ices.dk/?ref=14
Age_0	Bootstrap number
Age_1	Bootstrap number
Age_2	Bootstrap number
Age_3	Bootstrap number
Age_4	Bootstrap number
Age_5	Bootstrap number
Age_6	Bootstrap number
Age_7	Bootstrap number
Age_8	Bootstrap number
Age_9	Bootstrap number
Age_10	Bootstrap number
Age_11	Bootstrap number
Age_12	Bootstrap number
Age_13	Bootstrap number
Age_14	Bootstrap number
Age_15	Bootstrap number
Bootnumber	Bootstrap
DateofCalculation	Last date the product was calculated in YYYYMMDD

Range divide by median bootstrap

(Product for standard species only – NS-IBTS)

Field name	Units/codes description
Survey	http://vocab.ices.dk/?ref=102
Year	Calendar year, yyyy
Quarter	http://vocab.ices.dk/?ref=12
AphiaID	http://www.marinespecies.org/
Species	Latin name
IndexArea	http://vocab.ices.dk/?ref=162
Sex	http://vocab.ices.dk/?ref=17
PlusGr	http://vocab.ices.dk/?ref=14
Age_0	Bootstrap number
Age_1	Bootstrap number
Age_2	Bootstrap number
Age_3	Bootstrap number
Age_4	Bootstrap number
Age_5	Bootstrap number
Age_6	Bootstrap number
Age_7	Bootstrap number
Age_8	Bootstrap number
Age_9	Bootstrap number
Age_10	Bootstrap number
Age_11	Bootstrap number
Age_12	Bootstrap number
Age_13	Bootstrap number
Age_14	Bootstrap number
Age_15	Bootstrap number
DateofCalculation	Last date the product was calculated in YYYYMMDD

Litter Assessment Output

DATRAS bottom trawl survey litter data for assessment purposes is the data product based on litter data submissions, haul information, and includes some calculated area-related fields. The product is based on OSPAR requirements, so it has some OSPAR-specific fields.

Field name	Units/codes description
Survey	Abbreviation as in http://vocab.ices.dk/?ref=102
Quarter	http://vocab.ices.dk/?ref=12
Year	Calendar year, yyyy
Ship	http://vocab.ices.dk/?ref=3
Gear	http://vocab.ices.dk/?ref=2
Country	http://vocab.ices.dk/?ref=4
HaulNo	Numeric value
ShootLat	Degree.Decimal Degree of latitude
ShootLong	Degree.Decimal Degree of longitude
HaulLat	Degree.Decimal Degree of latitude
HaulLong	Degree.Decimal Degree of longitude
OSPARArea	http://vocab.ices.dk/?ref=349
MSFDArea	MSFD area reference; complete list: http://vocab.ices.dk/?ref=1518
BottomDepth	Metres; based on bathymetric measurements of the Shooting position
Distance	Metres
DoorSpread	Metres
WingSpread	Metres
LTREF	Litter reference list. http://vocab.ices.dk/?ref=1381
PARAM	Refer to http://vocab.ices.dk/ for the complete list of codes linked to the given LTREF
LTSZC	Litter size category http://vocab.ices.dk/?ref=1380
UnitWgt	Units used for reporting the next field http://vocab.ices.dk/?ref=1421
LT_Weight	Litter weight, see prev. field for units
UnitItem	Units used for reporting the next field http://vocab.ices.dk/?ref=1422
LT_Items	Number of litter items, see prev. field for units
LTSRC	Litter source, http://vocab.ices.dk/?ref=1382
TYPPL	Type of polymer, http://vocab.ices.dk/?ref=1385
LTPRP	Additional litter properties, http://vocab.ices.dk/?ref=1403
SweepLngt	Metres
GearExp	http://vocab.ices.dk/?ref=97
DoorType	http://vocab.ices.dk/?ref=98
Month	Calendar month, mm
Day	Calendar day of the month, dd
TimeShot	GMT, hhmm
HaulDur	Minutes
StatRec	http://gis.ices.dk/sf/
Depth	Metres
HaulVal	http://vocab.ices.dk/?ref=1
DataType	http://vocab.ices.dk/?ref=9

Netopening	Metres
Rigging	http://vocab.ices.dk/?ref=181
Tickler	http://vocab.ices.dk/?ref=182
Warplngt	Metres
Warpdia	Millimetres
WarpDen	Kilograms per linear metre
DoorSurface	Square metres
DoorWgt	Kilograms
TowDir	Degrees
GroundSpeed	Knots
SpeedWater	Knots
WindDir	Degrees
WindSpeed	Metres/second
SwellDir	Degrees
SwellHeight	Metres
EEZ	National Exclusize Economic Zone reference*
NMArea	12 nautical miles territorial waters reference, if applicable
DateofCalculation	Last date the product was calculated in YYYYMMDD

* Claus S., N. De Hauwere, B. Vanhoorne, F. Souza Dias, P. Oset García, F. Hernandez, and J. Mees (Flanders Marine Institute) (2018). MarineRegions.org. Accessed at http://www.marineregions.org

ICES DATRAS Units in DATRAS Products

Version Number	Release Date	Note
1.1	12-05-2011	Initial version, reviewed by ICES Data Centre
1.2	22-02-2013	Links edited according to changes on www.ices.dk
1.3	31-08-2014	Updated information
1.4	16-09-2014	Added part on litter codes and units
2	06-02-2017	Revised all product references; Included CPUE for swept area
3	15-10-2017	Added Litter Assessment Output codes and units