**From ATRIS to DATRAS**

**How to convert Adriatic Sea Survey (SoleMon) data into DATRAS format**

A short step-by-step guide

**File preparation**

Make sure that the following rules apply to your data file.  
⮚Each data file has a unique combination of country, ship, gear, year, and quarter references.  
⮚A valid file should contain at least 2 record types:  
 HH – Haul Information  
 HL – Length based information  
And, when applicable, a third record type:  
 CA – Age based information  
⮚The data should be compiled in a comma-separated file (CSV).  
⮚Each record is reported in a separate line, no empty lines or lines with headers are allowed.  
⮚Every record should have the amount of fields as defined in the survey format. So make sure  
that the data file complies with the survey format.  
⮚Each field is separated by commas, while decimal values are reported with points.  
⮚Do not report empty fields, use ‘-9’ for the absent values. For fields-specific information like  
data type, species codes, etc., refer to DATRAS FAQ documentation.

**Creation of HH – Haul Information**

First download the data from Atris ("HAUL DATA") for each year of interest in both Medits and Adriamed format through the "IMPORT/EXPORT DATA" window.

In a new Excel sheet, import the standard header of the HH file of DATRAS that can be downloaded from "".

Below is a list of the fields to be filled in and correspondence with the files downloaded by Atris:

* **RecordType** = DATRAS File name. Fill in with "HH"
* **Quarter** = Value from 1 to 4. Compile with "4" because the SoleMon survey is performed in November
* **Country** = Reference country. Compile with "ITA"
* **Ship** = Research boat name. Fill in with "48DP"
* **Gear** = Name of the gear used. Always fill in with "RAPIA"
* **SweepLngt** = NULL
* **GearExp** = NULL
* **DoorType** = NULL
* **StNo** = Station number. Compile by copying the "NOTRAI" column of the Medits format file
* **HaulNo** = Number of the cove. Same as StNo
* **Year** = Reference year. Compile by copying the "AN" column of the Medits format file
* **Month** = Reference month. Compile by copying the "MOIS" column of the Medits format file
* **Day** = Reference day. Compile by copying the "JOUR" column of the Medits format file
* **TimeShot** = Haul starting time. Compile by copying the "HDEB" column of the Medits format file
* **Stratum** = Depth layer. Compile by copying the "STRATUM" column of the Adriamed format file but changing it later “STR1\_17” with “STR1”, “STR2\_17” with “STR2”, “STR3\_17” with “STR3”
* **HaulDur** = Duration in minutes of the haul. Compile by copying the "DUREE" column of the Medits format file
* **DayNight** = Day or Night. Fill in with "D" (Day)
* **ShootLat** = Beginning latitude of the haul. Compile by copying the "LATDEB" column of the Medits format file and divide by 100 to get the required format (eg. 4525.74 / 100 = 45.2574)
* **ShootLong** = Beginning longitude of the haul. Compile by copying the "LGNDEB" column of the Medits format file and divide by 100 to get the required format (eg. 1231.08 / 100 = 412.3108)
* **HaulLat =** Final latitude of the haul. Compile by copying the "LATFIN" column of the Medits format file and divide by 100 to get the required format (eg. 4525.74 / 100 = 45.2574)
* **HaulLong** = Final longitude of the haul. Compile by copying the "LGNFIN" column of the Medits format file and divide by 100 to get the required format (eg. 1231.08 / 100 = 412.3108)
* **StatRec** = NULL
* **Depth** = Haul depth. Average of “PRODEB” and “PROFIN” columns del file Medits format
* **HaulVal** = Haul validation. Compile with “V”
* **HydroStNo** = NULL
* **StdSpecRecCode** = Standard species recording code. Compile with “1” (All standard species recorded)
* **BycSpecRecCode** = Information on whether all bycatch species are reported. To fill in look at <http://vocab.ices.dk/?CodeTypeRelID=89&CodeID=130990>
* **DataType** = Compile with “R” (Raw data as recorded during the cruise)
* **Netopening** = NULL
* **Rigging** = Rigging type. Compile with “D”
* **Tickler** = Amount of ticklers. Compile with “-9”
* **Distance** = Distance travelled in meters. Compile by copying the "DIST" column of the Medits format file
* **Warplngt** = NULL
* **Warpdia** = NULL
* **WarpDen** = NULL
* **DoorSurface** = NULL
* **DoorWgt** = NULL
* **DoorSpread** = Compile by copying the "OUVER" column of the Medits format file and divide by 10 to get the required format in meters
* **WingSpread** = Compile by copying the "ECAIL" column of the Medits format file and divide by 10 to get the required format in meters
* **Buoyancy** = NULL
* **KiteDim** = NULL
* **WgtGroundRope** = NULL
* **TowDir** = NULL
* **GroundSpeed** = Compile by copying the "SPEED" column of the Adriamed format file
* **SpeedWater** = NULL
* **SurCurDir** = NULL
* **SurCurSpeed** = NULL
* **BotCurDir** = NULL
* **BotCurSpeed** = NULL
* **WindDir** = NULL
* **WindSpeed SwellDir** = NULL
* **SwellHeight** = NULL
* **SurTemp** = NULL
* **BotTemp** = NULL
* **SurSal** = NULL
* **BotSal** = NULL
* **ThermoCline** = NULL
* **ThClineDepth** = NULL

**Creation of HL – Length base Information**

First download the data from Atris ("BIOLOGICAL DATA") for each year of interest in both Medits and Adriamed format through the "IMPORT/EXPORT DATA" window.

In a new Excel sheet, import the standard header of the HL file of DATRAS that can be downloaded from "".

Below is a list of the fields to be filled in and correspondence with the files downloaded by Atris:

* **RecordType** = DATRAS File name. Fill in with "HL"
* **Quarter** = Value from 1 to 4. Compile with "4" because the SoleMon survey is performed in November
* **Country** = Reference country. Compile with "ITA"
* **Ship** = Research boat name. Fill in with "48DP"
* **Gear** = Name of the gear used. Always fill in with "RAPIA"
* **SweepLngt** = NULL
* **GearExp** = NULL
* **DoorType** = NULL
* **StNo** = Station number. Compile by copying the "NOTRAI" column of the Medits format file
* **HaulNo** = Number of the cove. Same as StNo
* **Year** = Reference year. Compile by copying the "AN" column of the Medits format file
* **SpecCode Type** = Type of species code used for species definition at the record. Compile with “W” for WoRMS AphiaID
* **SpecCode** = WoRMS Species codes. Eg.: Compile with “127160” for common sole
* **SpecVal** = NULL
* **Sex** = If no determination was performed, report “-9”. If determination failed, report “U”. Compile by copying the “SEXE” column of the Medits format file
* **TotalNo** = Total number of fish in the given haul. “NoMeans” \* “SubFactor”
* **CatIdentifier** = Subsampling category by size for same species in the haul. Compile with “1”. For further description and examples of use look up the NS-IBTS manual.
* **NoMeas** = Number of measured fish in the given haul or subsample. Compile by copying the “NBSEX” column of the Medits format file
* **SubFactor** = Sub-sampling factor. If DataType is R, it is = 1 or >1 for different species depending on whether they were subsampled.
* **SubWgt** = Value in grams for the weight of the subsampled fish for a given haul for a given category of the given species. Compile by copying the “PFRAC” column of the Medits format file
* **CatCatchWgt** = Catch weight in grams per category (for the unique combination of cruise haul, species, sex, and category identifier). Compile by copying the “PECHAN” column of the Medits format file
* **LngtCode** = Length class code for the given species. Compile by copying the “CODLON” column of the Medits format file
* **LngtClass** = Length classes. Compile by copying the “CLALON” column of the Medits format file
* **HLNoAtLngt** = Number of fish at this category in this haul. Compile by copying the “NBLON” column of the Medits format file

**Creation of CA – Age base Information**

First download the data from Atris ("CATCH DATA") for each year of interest in both Medits and Adriamed format through the "IMPORT/EXPORT DATA" window.

In a new Excel sheet, import the standard header of the CA file of DATRAS that can be downloaded from "".

Below is a list of the fields to be filled in and correspondence with the files downloaded by Atris:

* **RecordType** = DATRAS File name. Fill in with "CA"
* **Quarter** = Value from 1 to 4. Compile with "4" because the SoleMon survey is performed in November
* **Country** = Reference country. Compile with "ITA"
* **Ship** = Research boat name. Fill in with "48DP"
* **Gear** = Name of the gear used. Always fill in with "RAPIA"
* **SweepLngt** = NULL
* **GearExp** = NULL
* **DoorType** = NULL
* **StNo** = Station number. Compile by copying the "NOTRAI" column of the Medits format file
* **HaulNo** = Number of the cove. Same as StNo
* **Year** = Reference year. Compile by copying the "AN" column of the Medits format file
* **SpecCode Type** = Type of species code used for species definition at the record. Compile with “W” for WoRMS AphiaID
* **SpecCode** = WoRMS Species codes. Es.: Compile with “127160” for common sole
* **AreaType** = Survey areas. Compile with “25” for GFCM GSAs
* **AreaCode** = Survey GSA. Compile with “17” for GFCM GSA 17 – Northen Adriatic
* **LngtCode** = Length class code for the given species. Compile by copying the “CODLON” column of the Medits format file
* **LngtClass** = Length classes. Compile by copying the “CLALON” column of the Medits format file
* **Sex** = If no determination was performed, report “-9”. If determination failed, report “U”. Compile by copying the “SEXE” column of the Medits format file
* **Maturity** = Maturity code. Compile by copying the “MATUR” column of the Medits format file
* **PlusGr** = If the plus group age is specified, no higher ages can be reported for the species in the haul.
* **AgeRings** = Age of specimen in years. “-9” = unknown age
* **CANoAtLngt** = Number of fish at this category in this haul.
* **IndWgt** = Mean weight of fish in this category in grams.

**At the end, put the three files together (following the order HH, HL and CA) by deleting the header line of each file and saving the final file as a comma-separated file (CSV).**