**CATDIS README FILE**

ICCAT Secretariat

[Version 2023.01]

**Summary**

This document briefly describes the CATDIS files publicly available on the ICCAT webpage ([www.iccat.int/en/accesingdb.html](http://www.iccat.int/en/accesingdb.html)). It presents the file formats, structures and content.

The current CATDIS dataset cover the period **1950 to 2021**. It was updated using the latest version of CATDIS estimated during 2022 (years 1950 to 2019) aiming to reflect the changes made to Task 1 nominal catches (T1NC) and Task 2 catch and effort (T2CE) during 2022. The current CATDIS version reflects (relative difference in weight of ±1%) the T1NC (as of 2022-01-25) dataset for the 9 species.

**Definition**

CATDIS is basically an estimation of T1NC (catches in live weight, with both landings and dead discards) for the nine major tuna and tuna like species of ICCAT, stratified in time (trimester) and area (5x5 degree squares). Details on Flag, Fleet, Gear group, Stock and School type (Purse seiners in tropical fisheries) were also maintained. It assumes that time-space distribution of T2CE partial catch data by fleet and major gear (T2CE, has with a wide range [15%, 100%] of coverage levels among all the datasets used on the estimations) is representative of the equivalent T1NC overall annual catches distribution in time and area.

**File description**

All CATDIS files are ASCII text files with comma delimited format (\*.csv). They can be opened with any spreadsheet application (MS‑EXCEL, LibreOffice CALC, etc.) or other program. In all cases the default field delimiter is “,” and none of the text fields have character qualifiers.

Two files are available:

* **“cdis5021\_ALL.7z”**: compressed archive containing only one “\*.csv” file with all the 9 species (617931 records).
* **“cdis5021\_bySpecies.7z”**: compressed archive containing 9 files, one per species. The table below shows the number of records of each species-based file (guide for older EXCEL/CALC versions).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ALB | BET | BFT | BUM | SAI | SKJ | SWO | WHM | YFT | TOTAL |
| No. records | 76089 | 124340 | 23331 | 48530 | 44902 | 51848 | 80608 | 38978 | 129305 | 617931 |

The files are in compressed formats (“\*.7z”). Download and install in your machine the freeware software **7-zip** ([www.7-zip.org](http://www.7-zip.org)) which takes care of both compression formats.

**Structure**

The fields in all files have the following structure:

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Type | Description | Auxiliary Table\* |
| SpeciesCode | string | ICCAT species code | Species |
| YearC | integer | Calendar Year |  |
| Decade | integer | Decade (natural decades; e.g.: 2000 to 2009) |  |
| FlagName | string | ICCAT Flag Name | Flags |
| FleetCode | string | ICCAT Fleet code | Fleets |
| Stock | string | Species related stock or management unit |  |
| GearGrp | string | Gear group |  |
| SchoolType | string | Type of fishing operation (PS only) | School types |
| Trimester | string | Time strata (trimester 1, 2, 3, 4) |  |
| SampAreaCode | string | ICCAT sampling area codes (maps: <https://www.iccat.int/Data/ICCAT_maps.pdf>) | Sampling Areas |
| QuadID | string | ICCAT quadrant | Quadrants |
| Lat5 | integer | Latitude of a 5x5 square  |  |
| Lon5 | integer | Longitude of a 5x5 square  |  |
| yLat5ctoid | float | Latitude (decimal degrees) centroid (cartesian) of a 5x5 square |  |
| xLon5ctoid | float | Longitude (decimal degrees) centroid (cartesian) of a 5x5 square |  |
| CWPCode | integer | FAO/CWP areal grid code (see: <http://www.fao.org/cwp-on-fishery-statistics/handbook>) |  |
| pID | string | ICCAT code (alfa numeric code) for the 5x5 spatial grid  |  |
| Catch\_t | float | Nominal catches (tones) |  |

\* Auxiliary table codes can be found on the web (ICCAT coding system: <https://www.iccat.int/en/stat_codes.html>)

**Geographical strata**

All CATDIS is standardized in a 5x5 degree square stratification. Upon various user requests, four types of geographical classifications are now available:

* **QuadID, Lat5, Lon5** (ICCAT system): define the corner of the square closest to the origin (Lat=0; Lon=0). Quadrant definitions (QuadID) are: 1=NE; 1=SE; 3=SW; 4=NW.
* **yLat5ctoid/ yLat5ctoid:** centroids (central point) of the 5x5 squares. They are in decimal degrees (e.g.: Lat = -35.5 equals 35°30”S)
* **pID:** ICCAT code (alfa numeric code) for the 5x5 spatial grid **(**used in CATDIS only)
* **CWPCode:** FAO-CWP grid system with mask "GQYYXX", where G (grid type) {6 | 5x5, ...); Q (quadrant): {1|NE,2|SE,3|SW,4|NW}; YY (Lat): [0, 90[; XX (Lon): [0, 90[.

The FAO/CWP grid system was added recently (FAO request) aiming to facilitate the inclusion of the CATDIS datasets into the future FAO Global Atlas.

For the ICCAT sampling areas (among others like species stock boundaries, ICCAT convention area), the ICCAT Secretariat has also available geographic information system (GIS) data files (shapefile and GeoPackage formats). Please contact the Secretariat (email: STATS\_info@iccat.int).

**Gear group**

Gear groups of each species were defined based on its relative importance (in weight) in overall catches by decade. Table below summarizes the gear groups adopted on each species. Code “oth” references all the remainder gears (including the unclassified ones).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ALB | BET | BFT | BUM | SAI | SKJ | SWO | WHM | YFT |
| BB (bait boat) | X | X | X | X | X | X | X | X | X |
| GN (gillnet) | X |  |  | X | X |  | X | X |  |
| HL (handline) |  |  | X |  | X |  |  |  |  |
| HP (harpoon) |  |  |  |  |  |  | X |  |  |
| LL (longline) | X | X | X | X | X | X | X | X | X |
| PS (purse seine) | X | X | X | X | X | X | X | X | X |
| RR (rod & reel) |  |  | X | X | X |  |  | X |  |
| TP (trap) |  |  | X |  |  |  |  |  |  |
| TR (troll) | X |  | X |  | X |  |  | X |  |
| TW (trawl) | X |  |  |  |  |  |  |  |  |
| oth (others) | X | X | X | X | X | X | X | X | X |

**Stocks**

The word “Stock” is here employed to identify the ICCAT official biological stocks (and also management units) of the major species ([www.iccat.int/Data/ICCAT\_maps.pdf](http://www.iccat.int/Data/ICCAT_maps.pdf)), and also, various species related management units (Mediterranean in all species; for YFT: ATE & ATW). The table below summarizes the Stocks (management units) of each species.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ALB** | **BET** | **BFT** | **BUM** | **SAI** | **SKJ** | **SWO** | **WHM** | **YFT** |
| AT (all Atlantic) |  | X |  | X |  |  |  | X |  |
| ATE (Atlantic East) |  |  | X |  | X | X |  |  | X |
| ATN (Atlantic North) | X |  |  |  |  |  | X |  |  |
| ATS (Atlantic South) | X |  |  |  |  |  | X |  |  |
| ATW (Atlantic West) |  |  | X |  | X | X |  |  | X |
| MED (Mediterranean) | X | X | X | X | X | X | X | X | X |

**Other**

The ICCAT Secretariat has also available (on explicit request) the detailed association/substitution tables used to estimate CATDIS.

In addition, specific requests involving CATDIS estimations (additional explanations, specific formats, explicit data aggregations, etc.) can be made to the Secretariat (STATS\_info@iccat.int).