



## **WPTmT07 (ASSESSMENT): TEMPERATE TUNA DATASETS AVAILABLE**

**LAST UPDATED: 06/06/2019**

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The following datasets are available for download. Please inform the IOTC Secretariat if you encounter any problems accessing the data. The data have been submitted to several validation procedures at the Secretariat; however, the procedures may not be exhaustive enough to uncover all potential problems.

If you discover any major inconsistencies in the data, please contact the Secretariat as soon as possible at: [IOTC-secretariat@fao.org](mailto:IOTC-secretariat@fao.org) or [IOTC-Statistics@fao.org](mailto:IOTC-Statistics@fao.org)

### **Data Catalogues**

The file [IOTC-2019-WPmT07-DATA02](#) (as of 06-06-2019) contains information on the amount of nominal catches strata for which catch and effort and/or size frequency data are available, by species.

### **Nominal Catches**

Nominal catches represent the best scientific estimates of total catch estimates disaggregated by Fleet, Year, Gear, IOTC Area and species. Catches not reported by individual species or gear have been assigned to the corresponding gears and/or species by the Secretariat.

Catches estimated for 1950-2017, including information on data source and quality of the catch estimates can be found in the following spreadsheet: [IOTC-2019-WPmT07-DATA03](#) (as of 06/06/2019) (compressed with WinZip).

Please note that catches for 2018 are not available yet.

### **Catch and Effort**

Catch and effort (CE) data (as of 06/06/2019) are available as three different files (compressed with WinZip), according to the type of gear:

- vessels using drifting longlines — [IOTC-2019-WPmT07-DATA04](#)
- vessels using pole and lines or purse seines — [IOTC-2019-WPmT07-DATA05](#)
- vessels using gears other than those referred to above — [IOTC-2019-WPmT07-DATA06](#)

Alternatively, click here to download the complete catch-and-effort three files as one zip file - [IOTC-2019-WPmT07-DATA07](#)



- Catches (in tonnes or/and in number) and effort are recorded per Fleet, Year, Gear, Type of School, Time Interval (month or quarter usually), Grid (usually 1-degrees square areas for surface gears and 5-degrees square areas for longlines) and Species.
- Catch and effort are not available for all Nominal catches strata. When recorded, catches reported in these datasets might not represent the total catches of the species in the year for the fleet and gear concerned, or represent simply a sample of those.

Definitions of the variables in the catch and effort dataset, source and other related information can be found in [IOTC-2019-WPTmT07-DATA08](#)

### Size frequency data

Size frequency data available in the IOTC databases are available in [IOTC–2019–WPTmT07–DATA09](#) (06/06/2019)

Definitions of the variables in the size frequency dataset, source and other related information can be found in [IOTC–2019–WPTmT07–DATA10](#)

- All size data strata not recorded as fork length have been converted to fork length based on the equations in [IOTC–2019–WPTmT07–DATA11](#)
- Fish recorded in size classes other than the 1cm size class recommended for albacore tuna have also been assigned to a corresponding size class for each species.
- All sizes are recorded in equal 1cm class intervals, with the exception of the first size class which represents all specimens with lengths <11 cm or under, and the final size class representing specimens >159 cm.

### Files for Stock Assessment

#### Stock Assessment

#### CPUE Indices:

The CPUE files will be available in due course.

**Original and alternative sample measurements, catch-at-size and catch-at-age data tables** (06/6/2019) - [IOTC-2019-WPTmT07-DATA12](#) are presented into three different scenarios:

- A1) Excluding all Taiwanese longliners size-frequency data in the years between 2002 and 2017
- A2) Excluding all Taiwanese longliners size-frequency data and including Taiwanese observer-provided size-frequency data for longliners in the years between 2015 and 2017 only

A3) Excluding all Taiwanese longliners size-frequency data and including Taiwanese observer-provided size-frequency data for longliners in the years between 2002 and 2017

**Observer data**, as available from a number of fleets and gears within the ROS regional database in the years between 2009 and 2017.

The Excel file corresponding to each scenario provides several worksheets containing datasets that include:

- Catch of albacore estimated in number and weight (t) by Fishery, area, year, and quarter, and length frequency samples available in the IOTC database for each stratum.
  - Catches in number (tno) for longline fleets adjusted using average weights estimated from the samples available for each stratum
  - Total catches in number (tno) for longline fleets NOT adjusted using average weights estimated from the samples available for each stratum
  - Catch of albacore estimated in number and weight (t) by Fishery, area, year, and quarter, and length frequency samples raised to represent the total catches estimated for each stratum, in number of fish (Catch-at-Size).
  - Catch of albacore estimated in number and weight (t) by Fishery, area, year, and quarter, and length frequency samples raised to represent the total catches estimated for each stratum, in weight (kg) (Catch-at-Size).
- Number (and weight) of albacore caught by age class, fishery, year, and quarter, derived from length frequency samples raised to represent the total catches estimated for each stratum (Catch-at-Size) and length-age key provided by Wells et al. 2013 (North Pacific Albacore, slicing table):

$$\text{Growth Function (Wells et al. 2013): } L(t)=124.10 [1-\exp^{-0.164 (t+2.2390)}]$$

$$\text{Length-Weight Equation (Penney 1994): } W = (1.3718 \times 10^{-5}) * L^{3.0973}$$

The single Excel file for scientific observer data contains albacore size and sex samples (aggregated by fleet, gear, year, month and 5-degrees area) for all fleets and years available in the ROS regional database.