

## 2024 Secretariat Report on Research and Statistics

The activities and information included in this report refer to the period between 1 October 2023 and 11 October 2024 (the Reporting Period)<sup>1</sup>. All the fisheries statistics, biological statistics and compliance related information have been presented by the Secretariat to the September 2023 Species Groups meetings and the 2024 SCRS Working Groups meetings. These presentations are essential for keeping the groups informed and enabling data-driven decision-making. In recent years, the Secretariat has noticed a decline in the quality of data submissions. An increasing number of datasets required corrections by the Secretariat to meet SCRS filtering criteria, with most issues stemming from incomplete forms and incorrect use of ICCAT codes. Furthermore, some CPC submissions did not utilize the most recent ICCAT electronic forms, complicating the data processing further. As happened in recent years, in addition to the normal activities related to statistics and publications, a substantial amount of time has been dedicated to the management of the science funds and to stock assessment activities and the management strategy evaluation (MSE) processes. Participation in meetings has also placed a significant demand on the Secretariat. The staff was involved in a substantial number of events, including 19 SCRS meetings, 13 Commission meetings, four joint meetings, and 13 workshops/webinars. This intensive schedule has strained the Secretariat's capacity to operate efficiently, risking the quality of its contributions. To sustain the necessary level of support, a considerable increase in staff and financial resources is essential to adequately support these events. Otherwise, the number of meetings should be reduced to a level in line with the current human resources available at both the CPCs and Secretariat levels.

### 1. Statistical and biological information reporting status

ICCAT Circular # 01071 / 2024 of 5 February 2024 established the provisions for reporting fishery statistics and biological data to ICCAT. The receipt date of each email (with the respective files attached) was adopted as the official submission date of the Contracting, Cooperating Party, Entity or Fishing Entity (CPC). The deadlines to report information for the intersessional meetings (required data detailed in the respective species work plans) was established by default as 15 days ahead of the start of the meeting, and were as follows:

- Blue Marlin Data Preparatory Meeting: 1 March 2024
- Yellowfin Data Preparatory Meeting: 29 March 2024
- Mediterranean Albacore Data Preparatory and Stock Assessment Meeting: 13 April 2024

The general deadline for reporting 2023 statistics of all species and fisheries (or any required revision to prior years) was 15 July 2024. A tolerance of 24 hours has been given to include all the time zones.

A total of 57 ICCAT CPCs [53 Contracting Parties (CP), plus 4 Cooperating non-Contracting Parties/Entities/Fishing Entities (NCC)] have reporting obligations to ICCAT. Costa Rica changed its status from *Cooperating* to *Contracting Party* in 2024. For statistical purposes, this corresponds to a total of 75 Flag-related CPCs (51 CP + 1 CP [15 EU Member States] + 1 CP [5 UK Flag states] + 4 NCC) who have reported information to ICCAT in recent years. The term "Flag CPC" was adopted here to refer to those 75 Flags.

The Secretariat adopted the SCRS filtering criteria since 2015 (Filters 1 and 2, described in Addendum 2 to Appendix 8 of *Report for Biennial Period, 2012-13, Part II (2013), Vol. 2*, updated by the SCRS in 2017) to validate and accept statistical data received through official formats. These filtering criteria are embedded in the electronic forms and always maintained up to date with their latest versions.

Filter 1 was effectively applied to 2023 data and the results are presented in the SCRS Report Cards (**Tables 1, 2, 3, 4, and 5**, with a summary in **Figure 1**). The "orange" cells indicate the associated datasets that have not passed Filter 1. The "green" and "yellow" cells indicate the datasets that have passed Filter 1 and were reported before and after the deadline of 15 July 2024, respectively. Whenever possible, the Secretariat has corrected the rejected datasets and informed (or will do so shortly) the respective CPCs on

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<sup>1</sup> Only the statistical data received during the Reporting Period by the Secretariat in valid formats (version 2024 of the electronic forms, or special agreed formats) were considered in this report.

the revisions needed. All information associated to the cells shaded in orange was provisionally integrated into the ICCAT database system (ICCAT-DB) and marked for revision. Filter 2 was also applied, and the results presented to the SCRS. Both filters were used on every Task 1 and Task 2 dataset received (scenario 2, methodology described in Palma and Gallego, 2015). The implementation of the SCRS filtering criteria to the remainder of the statistical and tagging forms will be progressively carried out in the following years, as it requires defining the filtering criteria for those forms, and that the Secretariat prepare in advance the corresponding databases, update the forms, and develop the data integration tools.

During the reporting period, the ICCAT Secretariat received approximately 1,200 statistical forms (ST forms: ST01, ST02, ST03, ..., ST10), of which almost 100% were submitted in standard formats. However, 10 submissions were received as “flat forms” and 6 were submitted using custom, non-standard formats. Most of these forms were processed, validated, and stored using an automated data processing framework. The Secretariat is still working on incorporating the automatic integration of conventional tagging forms in the mid-term.

Eighteen Flag CPCs have used older SCRS forms to report statistical data for 2023 and prior years. Whenever possible, and to facilitate the revision process, the Secretariat copied the information submitted using older versions of the forms (2015 to 2023) to the 2024 one and requested the respective Flag CPC to provide a formal validation of the transformation. Given the considerable number of old versions of statistical forms that were used to report both new and historical data (~9% over a total of about 1,200 forms submitted during the reporting period), the Secretariat reminds CPCs of the Commission's requirement of using the MOST RECENT standard electronic forms adopted by the SCRS (part of the filtering criteria) for submitting both NEW and HISTORICAL data, as statistical information using historical versions of the forms poses an additional and unnecessary burden on the Secretariat. As explained in the past, the Secretariat does not have the means to maintain the outdated data integration tools (to import, validate, correct, and integrate historical submissions) and priority is given only to the latest accepted version of the forms and the accompanying tools.

The overall reporting status for 2023 data (summarised in **Table 5** and **Figure 1**), using as reference the provision of T1NC as the most complete dataset, shows that 72 of the 75 Flag CPCs (96%) have reported fisheries and biological information: 63 Flag CPCs with catches (84%) and 9 Flag CPCs with no fishing activity (12%). No information of any kind was received from 3 Flag CPCs (4%) all over the Reporting Period, and namely: The Gambia, Guinea Bissau, and Nigeria.

### **1.1 Task 1**

The two Task 1 statistics datasets (T1FC for fleet characteristics, and T1NC for nominal catches) correspond to annual global information on a) fishing capacity (reported using form ST01-T1FC), and b) total catches by species (reported using form ST02-T1NC), with both forms being mandatory for all CPCs. The Secretariat reminds that for T1NC, the provision of statistical sampling areas ([www.iccat.int/Data/ICCAT\\_maps.pdf](http://www.iccat.int/Data/ICCAT_maps.pdf)) is now mandatory, while the old Task 1 areas (without geographical delimitation) remain optional.

#### **1.1.1 Fleet characteristics (T1FC)**

The information reported through form ST01-T1FC is split in two sub-forms: ST01A to compile information on an individual vessel basis, and ST01B to compile information by groups of small-scale vessels (i.e., those with length overall less than 20 meters) when these are not already included in ST01A. Only vessels actively fishing in the ICCAT Convention area within a given calendar year should be reported through form ST01-T1FC.

The structure of the ST01 form allows reporting of more complete and detailed information on effective fishing capacity, fleet structure and (since 2023) gear-independent nominal fishing effort (in fishing days). The mandatory reporting of fishing effort in both the Atlantic and Mediterranean regions enables the generation of overall effort indicators and estimates of total fishing capacity. However, despite this requirement, some CPCs have been unable to provide this information due to confidentiality restrictions or other technical reasons. This issue limits the ability to effectively differentiate between active and inactive vessels among all those authorized to fish in the ICCAT Convention area within a given calendar year. Therefore, the Secretariat reiterates the importance of complying with this requirement to improve the quality of T1FC data and its potential use in scientific studies.

The T1FC Report Card for 2023 is presented in **Table 1**. For the last nine years (2015 to 2023 data) T1FC has been requested on an individual vessel basis, in agreement with the ICCAT vessel record requirements of the Commission for the 11 vessel authorisation lists, which facilitates the cross-validation process. The Secretariat reminds that this information is also used by the Commission which collects previous year vessel activity under some ICCAT fisheries (BFT-E, tropical species, and SWO-MD).

The overall reporting ratio of ST01 for 2023 was 84% (63 Flag CPCs) with 23 Flag CPCs having late submissions and 4 Flag CPCs requiring corrections to their data (and that may need future revisions). Twelve Flag CPCs (16%) have not yet reported this information.

The vessel sizes encountered in 2023 data range from 4 to 143 meters in length overall (LOA), including small scale vessels reported through sub-form ST01B by 11 Flag CPCs (about 5,800 vessels). A total of 1,284 vessels reported in T1FC were not found in the ICCAT vessel record database (with about 60,460 vessels currently registered). Some of these mismatches could be related to different vessel characteristics being reported through form ST01-T1FC compared to what available in the ICCAT vessel record and solving these inconsistencies will require additional work by the Secretariat.

### 1.1.2 Nominal catch (T1NC)

Task 1 nominal catch data (T1NC) contains landings and discards (dead and alive) by species, stock, gear, fleet, and year (all in live weight) and is a key dataset used by ICCAT to accomplish its mandate of supporting the stock assessments, as well as MCS and compliance work. Thus, a complete and timely available T1NC dataset is essential for the work of the SCRS and the Commission. T1NC data are reported through form ST02-T1NC which compiles fishery statistics using two sub-forms. Sub-form ST02A, compiles positive catches separated between landings, dead discards, live discards, and live catches for farming facilities. Sub-form ST02B compiles a “zero-catch” matrix (by major species/stock by gear) with positive fishing effort for active gears that have operated within the year. This approach, approved by the Commission ([Res. 15-09](#)), has greatly normalised and simplified the “zero” catch reporting obligation. Only one “zero” is now required per major species/stock and gear combination. The ST02B may require a revision in the future to include and remove additional species/stocks (requested by several Flag CPCs).

The T1NC Report Card for 2023 is presented in **Table 2**. It shows the CPCs that have reported both positive catches and “zero” catches (excluding all the SCRS estimates). A summary of the “zero” catches reported by Flag CPCs and major species/stock in sub-form ST02B is presented in **Table 16**. The T1NC datasets received from 72 Flag CPCs (96%), including 22 Flag CPCs with late reports, were all processed and presented to the SCRS. These include some datasets corrected by the Secretariat (orange cells, marked as “*for revision*”) and are associated to 6 Flag CPCs. Three Flag CPCs (4%) have not yet reported this information. The total 2023 T1NC nominal catches reported for all species (discounting the live releases) sums up to ~ 781,000 t, which is about 3.8% lower when compared with the average of the last five years (2018 to 2022, ~ 812,000 t). Catches for 2021 continue to remain the lowest among all recent years (2011-2023), amounting to ~ 708,000 t, which is around 9.8% lower than the average annual catches for the same period (~ 785,000 t).

## 1.2 Task 2

Task 2 statistics include catch-effort and size information and have a higher spatial-temporal resolution (month and 1x1 / 5x5 grids, or sampling areas) compared to Task 1, often reflecting only a partial coverage of the total catches by species and gear (T1NC). Task 2 information is the main source of data used by the SCRS in stock assessments and by the Secretariat for the estimation of important datasets, such as catch distribution (CATDIS), fishing effort distribution (EFFDIS), catch-at-size (CAS) and catch-at-age (CAA) by species (all used by the SCRS and the Commission). ICCAT CPCs must report three types of Task 2 datasets using the agreed electronic forms:

1. T2CE (catch & effort): to be reported through form ST03-T2CE;
2. T2SZ (size samples): to be reported through form ST04-T2SZ;
3. T2CS (CAS): to be reported through form ST05-T2CS (only for ALB, BFT, BET, YFT, SKJ, SWO).

Alternatively, these data can also be reported through any non-standard formats agreed by the Secretariat and an ICCAT CPC.

There is also a special form (ST06-T2FM) used to report bluefin tuna caught by purse seiners and transferred to farming facilities in two important events: a) while first caging; b) when harvested after growing. These compiled datasets can be considered special types of Task 2 size information. However, this information is treated separately (due to the growth at the farms, in the case of (b) events) and used in the stock assessment only after discounting the growth on the farms. The Secretariat recalls that, cage transfers should not be reported in the form ST06-T2FM.

### *1.2.1 Catch and effort*

The T2CE Report Card for 2023 is presented in **Table 3**. A total of 57 Flag CPCs (76% reporting ratio), including 13 late-reporting Flag CPCs and 3 with corrections to their data, have reported T2CE. 18 Flag CPCs (24%) have not yet properly submitted T2CE statistics for 2023.

All the T2CE information was reported by month and for the most part had the geographical resolution required by the SCRS (1x1 or better for surface fisheries, and 5x5 or better for longline fisheries). The number of datasets reported with the exact geographical location (latitude/longitude) continues to increase. The number of species reported in the catches of T2CE datasets has also recently increased, and this is particularly true for pelagic shark species. For the most recent years, the positive trend of reporting more detailed and complete T2CE has continued. Since 2017, the T2CE datasets without effort information are not integrated into the ICCAT-DB system, and explicit requests for revisions are always made by the Secretariat to the corresponding Flag CPCs. The Secretariat continues to be involved in T2CE data recovery tasks, which aim at completing the identified data gaps, and whenever possible to replace “poor” datasets (e.g., datasets without effort, with non-standard gear based effort measures, incomplete species catch composition, low time-area resolution, etc.), using the newer levels of resolution required by the SCRS, such as monthly based datasets, spatial resolution of 1x1 squares for surface gears up to a maximum of 5x5 squares for longline gears. This ongoing task will continue indefinitely, and the Secretariat recommends more active collaboration and involvement of CPC scientists and Statistical Correspondents.

An important part of the Secretariat estimates (CATDIS and EFFDIS) depends on the quality of T2CE submitted by Flag CPCs. However, deficiencies still persist in some of the reported datasets, with the most problematic being:

- a) Non-standard fishing effort types for certain gears;
- b) Incomplete or partial species catch composition;
- c) “Double counting” of fishing effort, where the same fishing effort is reported several times in different forms for the same gear.

The Secretariat recalls that, as recommended by the SCRS, T2CE statistics should be in all cases reported with the most complete species catch composition. This rule will avoid duplication of the fishing effort for the same fleet/gear/year combination, in cases where each species is reported in individual ST03 forms with incompatible stratifications.

### *1.2.2 Size information*

The T2SZ Report Card for 2023 is presented in **Table 4**. This Report Card also contains the datasets of T2CS (catch at size Flag CPC estimates, for the six mandatory species) and size information T2SZ. It does not contain the bluefin tuna size samples provided through form ST06-T2FM, or the bluefin tuna stereoscopic camera measurements. The inclusion of these two datasets into the T2SZ Report Card is performed manually after inventorying and checking all reported datasets.

A total of 48 Flag CPCs (64%) have reported T2SZ data, including 11 late-reporting Flag CPCs and 3 requiring corrections to the original submissions. 27 Flag CPCs (36%) have not yet submitted T2SZ information for 2023.



Since 2017, the SCRS requires that all the T2SZ/T2CS datasets be reported by month, and with the most fine-grained geographical stratification possible (1x1 and 5x5 grids only), maintaining the ICCAT Sampling Areas for biological port sampling. All size datasets for 2023 were submitted stratified by month. The use of smaller geographical grids (1x1, and 5x5) has also increased slightly. The size/weight class bins reported for 2023 have followed the SCRS recommendation on size structures (1, 2, and 5 cm) and weight structures (1 kg). As in prior years, errors were identified in the reported units for size/weight class bins (e.g., millimetres reported as centimetres) in some 2023 T2SZ and T2CS datasets, and these were tagged for posterior revisions.

Following the [Res. 11-14](#) on the standardized presentation of scientific information, the SCRS developed the Standard Catalogues on data availability for a period of years, for all the major species and stocks. All the catalogues (27 tables) are presented in **Appendix 1**. These catalogues show the information for a period of 30 years (1994-2023) in terms of Task 1 nominal catches (ranked by importance in descending order), and the availability of Task 2 data (catch and effort, size sampling, and catch-at-size) grouped by year, and Flag/gear group combinations. This instrument, which summarises large amounts of information per species/stock, shows the level of data completeness/availability, as well as the data gaps for the most important fisheries. The catalogues of **Appendix 1** are provided for the ten major tuna and billfish species and three main sharks stocks only. The catalogues for the main small tuna species, usually prepared for the small tunas Species Group intersessional meetings only, were also updated for the SCRS. Following a 2020 recommendation of the SCRS, the Secretariat has published since 2021 the two SCRS catalogues on the [ICCAT website](#) at the beginning of following year (with information submitted until the end of the annual meeting of the Commission).

The SCRS scorecard on Task 1/2 data availability is presented in **Table 6**, using the methodology adopted by the SCRS in 2019 (Palma *et al.*, 2019). It has the format adopted by the Working Group on Stock Assessment Methods (WGSAM) (exception: last column with the relative score changes of two consecutive periods of 30 years: 1994-2023 versus 1993-2022) and already contains all the valid 2023 datasets received during the Reporting Period. Two indicators arise from the scorecard results:

- a) A general increase of all the scores as we reduce the time-scale scores from 30 to 10 years' periods;
- b) Overall, the scores coincide with how the SCRS categorises each species/stock in terms of fisheries data availability (data-poor/data-rich concepts).

If the above indicators are not observed in a given species/stock (e.g., SKJ-W does not follow a), it could mean that the most recent years have seen a deterioration on the provision of Task 2 datasets (T2CE, T2SZ, and T2CS)

### 1.3 Tagging

A [Meeting of the Ad Hoc Working Group on Coordination of Tagging Information](#) was held in July 2024, in which the Secretariat presented a brief historical overview of ICCAT tagging programmes, as well as related developed activities, SCRS advice produced, products produced, problems and proposals for future tagging activities. In addition, the tagging coordinators from the different Species Groups provided a brief summary of the current situation, and the activities carried out.

#### 1.3.1 Electronic tags

The laboratories conducting tagging campaigns with electronic tags (pop-up, archival, etc.) in the Convention area have informed the Secretariat that 309 releases and 86 recoveries were made during the Reporting Period.

The development of the ICCAT electronic tagging management system (ETAGS) has continued with the main goal of integrating in a centralized relational database all the information collected from electronics tags. During this year the focus has been on the improvement of the design and implementation of the metadata associated to the electronic tags.

### 1.3.2 Conventional tags

In relation to conventional tags, several Contracting Parties have reported to ICCAT a total of 5568 releases and 368 recoveries (**Table 7**) during the Reporting Period.

As in previous years, the Secretariat provided conventional tags for tagging experiments to the ICCAT scientific community (individual scientists or research institutions). During the Reporting Period, the Secretariat has distributed 2300 conventional tags, primarily to the tagging projects of the Atlantic-Wide Research Programme for Bluefin Tuna (GBYP) and additionally to various scientific institutions (**Table 8**).

In addition, some dashboards and map viewers have been presented to various intersessional Species Groups meetings with the aim to examine dynamically and interactively the conventional tagging data.

During this year a collaborative work has begun involving the Secretariat and the USA tagging correspondents, to work on the full cross-validation of both conventional and electronic tagging databases, with the main objective of correcting all the discrepancies and missing information across all species.

### 1.3.3 Tagging lottery

National laboratories award prizes or special gifts to people who recover tags, aiming to encourage and increase the return of recovered tags. In support of the tagging programmes, ICCAT organizes on a yearly basis, a conventional tagging lottery carrying a prize money of €500. In the last ICCAT lottery held on 25 September 2023, prizes were awarded for three tags for each of the following categories: small tunas, sharks, billfishes, temperate and tropical tunas. The winning tags per category were as follows:

Category	Tag winner	Species	Recovery notes
Small tunas	RF022920	Little tunny ( <i>Euthynnus alletteratus</i> /LTA)	United States tagging campaigns
Sharks	346103	Blue shark ( <i>Prionace glauca</i> , BSH)	United States tagging campaigns
Billfishes	HM105711	Atlantic sailfish ( <i>Istiophorus albicans</i> , SAI)	United States tagging campaigns
Temperate tunas	AAB009101	Albacore ( <i>Thunnus alalunga</i> , ALB)	EU-Spain tagging campaigns
Tropical	GBS004967	Yellowfin tuna ( <i>Thunnus albacares</i> , YFT)	St Helena tagging campaigns

An additional draw was sponsored by the GBYP with three monetary awards (one with €1,000; two with €500 each) for recoveries of bluefin conventional tuna tags (*Thunnus thynnus*, BFT) only. The winning tags and their rewards were as follows:

- €1,000: Tag BF524890, was recovered in Turkish waters.
- €500: Tag BYP057968, was recovered in Maltese waters.
- €500: Tag BYP078758, was recovered in Turkish waters.

## 1.4 Bycatch

The cumulative information on CPCs observer program design is included in **Appendix 3**. CPCs that reported ST09 data are listed in **Appendix 4**. Data was processed from 39 CPCs (excluding the empty submissions and those still requiring revision).

**Table 9** provides a summary of ST09-DomObPrg data reported for the Reporting Period by discard fate and species group including sharks, sea turtles and seabirds. **Table 10** contains Task 1 nominal catches (T1NC) data for bycatch species for the reporting period.

### 1.4.1 Sharks

The shark data submitted through forms ST09 (Domestic Observer data) and ST02 (Task 1 nominal catches) in the reporting period are summarized in **Tables 9** and **10**, respectively.

#### 1.4.2 Sea turtles

A summary of sea turtles information submitted for the Reporting Period in ST09 forms is provided in **Table 11**. The Secretariat received much of the bycatch information from submitted ST09-DomObPrg forms.

#### 1.4.3 Seabirds

A summary of the information submitted on ST09 forms for seabirds is provided in **Table 12**.

#### 1.4.4 Marine mammals

A summary of the information submitted on ST09 for marine mammals is provided in **Table 13**.

## 2. Data recovery and improvement

### 2.1 Revisions and updates

By default, historical revisions are limited to the years not covered by the SCRS “3 +1 revision rule”, where the last three years already reported officially to ICCAT plus the new year are considered preliminary data and can be freely revised by CPCs (i.e., 2020 to 2022 plus 2023). All years before 2020 require a scientific document explaining the revision.

Several CPCs have submitted historical revisions to T1NC for tuna and tuna-like species, sharks and other bycatch species. Part of those revisions (ALB, SAI, BSH, and SMT species) were made during the 2023 ICCAT intersessional data preparatory meetings. Some gaps were also completed and a few series with unclassified gears were also discriminated. Many CPC scientists were involved with the Secretariat in these revisions. This joint effort has contributed to the improvements of T1NC data for these species and should be recommended to the other ICCAT species groups. The T1NC updates containing all the revisions (together with the supporting SCRS documents) and already adopted/used by the respective species group, are summarised in **Table 14**.

There are, however, some official T1NC datasets reported for years 2021 and 2023 (**Table 15**), that are pending to be included in T1NC because they were submitted late or still need additional clarifications, and for these reasons may require a SCRS decision. For the Ghanaian purse seine catches of 2021 (no decision made last year) the situation is more problematic. These catches are related to vessels with trips overlapping the years 2021 and 2022, and therefore cannot be allocated (summed up) to any of the years. These partial catches BET, YFT, SKJ, and TUN unclassified, which contains the “*faux poisson*” component of Ghana PS catches, should use the date of the set to identify the calendar year and eventually be added to the respective annual catches. This repeated provision of erroneous T1NC (happening in the last decade) must be verified and corrected accordingly with the help of the Ghana Statistical correspondents, including the estimation of *faux poisson* catch component series. The T1NC official provision of EU-Germany arrived late and will be added in time for the plenary. In the follow-up of a 2018 Commission first request (followed by several recommendations on tropical species, the latest being [Rec. 22-01](#) to include in the T2CE datasets of the PS tropical fleets reported to ICCAT the effort unit “number of sets” per fishing mode (FAD/free school), which includes revisions to the existing T2CE datasets back to 1991 (maximum, and at least the last six years, by [Rec. 22-01](#)). After the improvements made in 2023 (updates provided by Belize (2017 to 2022), EU-España (2013 to 2022), Curaçao, El Salvador and Panama (2016 to 2022), and Senegal (2015-2022)) during 2024 Guatemala also provided T2CE revisions for 2018 and 2019. **Table 17** presents the updated historical T2CE datasets made during the reporting period, adopted by the respective species groups and already integrated into the ICCAT DB, together with some remarks on their status.

The Secretariat has also received some important historical revisions of T2SZ. **Table 18** presents the historical T2SZ dataset recoveries reported during the reporting period and adopted by the respective Species Groups (already integrated into the ICCAT-DB).

## 2.2 Additional by-catch information

The use of seabird mitigation measures was reported by 31 CPCs on ST09 forms in the reporting period.

## 3. ICCAT databases

The ICCAT database information system (ICCAT-DB) is a collation of several relational database management systems (RDBMS) and includes MS-SQL Server 2016 as the main server, MariaDB 10.6 for the Integrated Online Management System (IOMS), and PostgreSQL 13.4 for the tagging data. Overall, ICCAT maintains about 50 distinct databases built to manage all the structured information received by the Secretariat, some of which are currently under extensive development. The ICCAT-DB is supported by several frontend/backend tools, including client applications developed mostly with Java technologies, SQL scripts, R scripts, Shiny web apps, and some VBA tools (to be deprecated by the new applications currently under development). These tools are mostly used to perform validation, transformation, processing, statistical analysis, and data mining of all managed information, as well as to disseminate standard outputs through various means such as the ICCAT website, publications, and meetings' data provision.

In addition to statistical and scientific information, the ICCAT-DB also manages a large portion of the information associated with the Commission's compliance requirements. Since 2009, the workload of compliance-related information, mainly in response to the increase of regulatory measures, has steadily increased the database management and all related tasks (control, verification quality assurance, storage and backups, etc.).

The Secretariat is continuing the development of the ICCAT IOMS, aimed at managing online all the ICCAT data requirements. The IOMS is a long-term project intended to replace entirely all the current ICCAT data reporting and management systems (ICCAT-DB). Currently, four senior software developer experts (three within the ICCAT staff, and a fourth financed by the European Union complementary contribution) are working full time on the IOMS project. This project is under the supervision (and partial contribution to the development) of the Statistics Department of the Secretariat. The IOMS project is supervised by the Statistics Department of the Secretariat, which also contributes partially to its development. The European Union has always supported the IOMS with annual voluntary contributions since 2021 with several annual grants to handle specifically the complexity of the IOMS Vessel Manager module and all its components (including the UN/FLUX integration) and the Task 1 and the beginning of the Task 2 Catch and effort modules. Details about the IOMS project area described in the Report of the 2024 Meeting of the Online Reporting Technology Working Group (WG-ORT). At the 2024 Intersessional Meeting of the WG-ORT, the WG-ORT acknowledged the outcome of the first three years (2021-2023) including the improvements observed in the level of effective utilization by the ICCAT CPCs (through their IOMS users) in providing some sections of their Annual Reports through the system. In 2022, the Commission adopted [Rec. 22-17](#) which requires that CPCs submit Section 3 of their Annual Report directly into IOMS beginning in 2023, and also to use the IOMS to submit additional reporting information in the future (as new modules are developed and enter into production). The Secretariat will continue to support the CPC officers also for the completion of the 2024 Annual Reports (as already done in 2021-2023).

Between 2021 and 2023 the Secretariat updated the ICCAT databases to allow storing information related to support vessels operating in tropical tuna fisheries, FAD deployments, and port sampling for tropical tunas, which are reported through forms ST07, ST08, and ST09 (respectively). The redesign of four databases (Task 1, Task 2, Vessels, and Tagging) is still ongoing, and aims at an integration of this information within the IOMS system. The documentation of the ICCAT-DB is composed of several parts (database reference manuals, user guides, Java tools' documentation, special articles, etc.) and is currently in the process of being merged with the documentation specific to the IOMS implementation (standard manuals content will be managed by the IOMS dynamic Help System, which is already working under the IOMS). Once completed, this task will reduce the amount of redundant documentation to a minimum. This ongoing work is being continuously merged and updated in parallel with the improvements made to the ICCAT-DB and the progress of the IOMS.

The exceptional circumstances (ECs) of 2020 and 2021, together with the overloaded calendars of 2023 and 2024 forced the Secretariat to delay or postpone several projects, the most important being: the replacement of the standalone MS-ACCESS Task 2 databases (T2CE: "t2ce.mdb", T2SZ/CS: "t2sz.mdb") by SQLite databases; the "ICCAT forms" online Task 1/2 validation prototype; the geographic information system (GIS) project (aimed at supporting the proper geo-referencing of all pertinent datasets in ICCAT-DB, and at creating a "marine-rich" PostGIS server); the conventional/electronic tagging work (database redesign, automatic data integration tools, sex recoveries by individuals, etc.) and the development of a new "Biological Sampling" database to handle the large spectrum of biological data obtained under ICCAT financed projects (ageing, maturity, stomach content, hard parts, etc.). The Secretariat has planned (see section 11) to continue with all these projects in the future.

Two of the above delayed projects have already started in 2021 and are now under steady development. The first one is the ETAGS database system aimed to manage all the ICCAT electronic tagging information (data and metadata) for which several applications and analytical tools were planned (details in section 1.3). The second one, is the new "Biological Sampling" database (BIOSAMP) aimed to handle all the large spectrum of biological data (ageing, maturity, stomach content, hard parts, etc.) obtained under ICCAT financed projects. Several ICCAT datasets with this type of information obtained from various ICCAT research programmes (GBYP, AOTTP, SMTYP, SWOYP, etc.) are now being compiled, cleaned and afterwards normalized (transformed in harmonized structures with ICCAT existing or new codes) to be used in the design of the relational database model. This project, planned for the mid/long term, will be carried out fully in-house and will evolve depending on the time availability of the Secretariat database experts.

Starting with Q2 2024, the Secretariat has also initiated the development of interactive applications to produce SCRS data catalogues on demand (using various filtering criteria), as well as to identify discontinuities in nominal catch trends, and disseminate T1 and T2 datasets in a more user-friendly fashion. The development of these applications has been complemented by the design of a set of software libraries (written using the R language) which have the potential to be disseminated to the public and allow the ICCAT scientific community to benefit from the standardization efforts performed by the Secretariat in terms of reference data management and visualization.

### **3.1 Statistics**

#### *3.1.1 Task 1 and Task 2*

All electronic forms used to report Task 1 data (ST01-T1FC and ST01-T1NC), Task 2 data (ST03-T2CE, ST04-T2SZ, ST05-CAS, and ST06-T2FM), and Task 3 data (ST07-TropSupVes, ST08-FadsDep, ST09-DomObPrg, and ST10-PortSamp) were updated to version 2024a to incorporate the changes in codes, structures, and filtering criteria requested by the SCRS. The respective databases were updated accordingly. The Secretariat further improved the automated processes handling Task 1, Task 2 and Task 3 data submissions via the standard "ST" forms and completed their data integration. The Secretariat is also developing similar tools to manage all conventional tagging forms (TG01, TG02, and TG03). Extending this automated data integration framework to all "ST" and "TG" forms is a process that has been carried on progressively since 2023 due to its complexity.

#### *3.1.2 Catch distribution (CATDIS)*

The CATDIS dataset (*CATch DIStribution*, i.e., the estimation of T1NC for the nine major tuna and tuna like species of ICCAT stratified by year, Flag, fleet, gear, fishing mode, catch type, trimester, and 5x5 degree squares) is one of the most used ICCAT catch estimates, and is of particular importance to those stock assessments of ICCAT species using integrated stock synthesis models (SS3, Maunder and Punt, 2013). The Secretariat has updated the CATDIS from 1950 to 2022 with the most recent statistical information available. The new CATDIS estimations were published on the ICCAT website on 31 January 2024, reflecting in detail the T1NC catches also published by the same date. The CATDIS was used in the majority of the 2023 SCRS Intersessional meetings, and [Statistical Bulletin](#) (Vol. 49) was also updated with the most recent maps of CATDIS estimates for the period 1950-2022. An additional update was made to CATDIS on yellowfin tuna only, to accommodate the revisions made by the tropical tuna Species Group to the T1NC catch series.



Following the SCRS guidance, the Secretariat will update the CATDIS dataset by the end of 2024, to cover the period 1950-2023 with the latest T1NC and T2CE datasets adopted by the SCRS and the Commission during their 2024 annual meetings. These updates will be published on 31 January 2025 on the Website and in the Statistical Bulletin (Vol. 50).

Due to the lack of sufficient T2CE information (**Appendix 1**), the CATDIS still does not include estimates of four additional species: spearfish (SPF), blue shark (BSH), shortfin mako (SMA) and porbeagle (POR). However, progress has been made regarding some important data recoveries (e.g., the T2CE LL series of USA, whose catch composition is now complemented with sharks species), and new attempts will be made in the near future to further extend data availability for these species. The Secretariat intends to make an additional attempt to try and produce CATDIS data for the three sharks species using both Task 2 datasets (T2CE and T2SZ) and is also working to further improve the CATDIS by properly separating its catch components (landings, and dead discards) and convert trimesters into monthly estimations.

### 3.1.3 Catch at size/Catch at age

The catch-at-size (CAS) database is complete and functional, with an active connection between the size data (both T2SZ and T2CS) and the substitution tables used for the CAS estimates. CAS and CAA estimations are usually produced for six major species (ALB, BFT, BET, YFT, SKJ, and SWO) and only when requested by the respective Species Group on their annual workplan. During 2024, only the CAS of yellowfin tuna was updated (simple update for the period 1969 - 2022). This estimation was used by the Tropical Tuna Species Group at the stock assessment, mainly to respond to some concerns raised by Panel 1. It is unclear whether these estimations of CAS and CAA will be required in the future.

### 3.1.4 FAD forms

In 2014 a dedicated electronic form (ST08-FadsDep) was created to allow reporting information on the number of FADs deployed according to [Rec. 13-01](#). This form has been revised several times and in 2018 the SCRS approved a new version addressing the main concerns raised by CPCs intersessionally. In addition to the information provided through form ST08, CPCs are also requested to submit FAD Management Plans according to [Rec. 16-01](#), [Rec. 19-02](#) and [Rec. 22-01](#). **Appendix 2** summarizes the countries fishing for tropical tunas that have submitted during the Reporting Period information about their FAD fisheries and their FAD management plans, as well the ST08-FADsDep data for 2023. Form ST07 is used to collect information related to support vessels associated with tropical tunas' purse seine fisheries. **Appendix 5** provides a summary of the number of support vessels as reported by CPCs from 2010 to 2023.

## 3.2 FAD Management Plans

The [Recommendation by ICCAT replacing Recommendation 21-01 on a multi-annual conservation and management programme for tropical tunas \(Rec. 22-01\)](#) requires that each year by 31 January, CPCs with purse seine and baitboat vessels fishing for bigeye, yellowfin, and skipjack tunas in association with objects that could affect fish aggregation, including FADs, shall submit management plans to the Executive Secretary for the use of such aggregating devices by vessels flying their Flag as well as information on FADs deployed and utilization during the previous year (ST08-FADsDep). The elaboration of the plan in [Rec. 22-01 Annex 6](#) provides an extensive list of criteria that must be included in the Plan.

In 2024, 19 CPCs provided Tropical tuna fishing management plans, of which 11 also provided FAD management plans (**Appendix 2, Table 1**). ST08-FadsDep forms were received from 20 CPCs. Of these, 11 reported not using or deploying FADs.

## 4. Work in support of the SCRS Intersessional Meetings

One of the main tasks of the Secretariat is to provide full support for all intersessional and annual meetings of the SCRS, including provision of the fisheries statistic data (Tasks 1, 2 and 3) and auxiliary data as requested by the working groups. The Secretariat also provides scientific support in collaboration with scientists and modelers on all the assessment methods, normally following an intersessional work plan approved by the subcommittees, species groups, and/or working groups. During the meetings the Secretariat also compiles and ensures the integration of results, creating Status and Kobe plots, projections,

auxiliary analysis, and the backup of all analyses and main results that support the management advice provided by the SCRS. Finally, in collaboration with Rapporteurs, the Secretariat provides support for research workplans, calls for tenders, and other activities to make the best use of the available funds for science and data collection programmes.

Since the last provision of advice by the SCRS in September 2023, the Secretariat provided support to a total 45 SCRS and Commission/SCRS meetings and workshops online and in-person.

In addition to the support provided to working groups and subcommittees, the Secretariat also produced a total of 35 SCRS documents and 18 presentations. The list of these documents is compiled in **Appendix 6**.

## 5. Publications

### 5.1 ICCAT series of periodic publications

**Table 27** shows the volumes of the ICCAT series of periodic publications that were published in 2024. Since 2017 these are only published in electronic format and are all available for download on the ICCAT [webpage](#).

All Volumes of the 2023 [Biennial Report](#) (Part II, Volumes 1 to 4) have been published, including Volume 4 that contains the reports issued by the Secretariat for the SCRS and the Commission.

Volume 49 of the [Statistical Bulletin](#) was published in February 2024. The current edition provides the catches and other statistics series for the period 1950 to 2022.

Since 2017 the Secretariat has been adopting the necessary measures to ensure that documents presented during the SCRS meeting are published in electronic format in the [ICCAT Collective Volume of Scientific Papers](#), soon after their presentation at the subcommittees, Species and Working Groups meetings. In late 2023 the Secretariat completed the publication of Volume 80 (issues 1 to 10) and has already published most documents contained in issues 1 to 8 of Volume 81. In 2024 the Secretariat implemented a new system of page numbering for the published documents (all starting on page 1), which simplifies publishing of late submissions, while keeping the sequential order by original SCRS reference. A new system of referencing the documents published in the Collect. Vol. Sci. Pap. has been implemented, which makes it possible to add new documents to a given Volume (issue) while keeping the order of the original SCRS reference (Collect. Vol. Sci. Pap. ICCAT, 81(2), SCRS/2024/XXX: XXX-XXX (2024)).

### 5.2 ICCAT Manual

Following a request regarding the update of Chapter 3 of the ICCAT Manual (Basic types of tuna fisheries), in 2024 the Secretariat hired experts to revise the current sub-chapter 3.1.2 (Longline fishing). The updated sub-chapter shall be presented to the SCRS in 2025.

## 6. ICCAT Scientific programmes

The activities of the Atlantic-Wide Research Programme for Bluefin tuna (GBYP), Small Tunas Year Programme (SMTYP), Shark Research and Data Collection Programme (SRDCP), Enhanced Programme for Billfish Research (EPBR), Albacore Year Programme (ALBYP), Swordfish Year Programme (SWOYP) and Tropical Tunas Research and Data Collection Program (TTRaD) are presented separately in reports to the SCRS (see section 10 of the 2024 SCRS Report).

The Secretariat's participation in these programmes mainly consists of administrative and scientific support. In the administrative area, the Secretariat assists with coordination of research proposals, calls for tenders/quotation requests, and funds administration, and oversees the audit and accounting responsibilities of these programmes. As regards scientific support, the Secretariat plays a major role in liaising between the SCRS and the programme Coordinators on the design of research proposals, calls for tenders, evaluation of proposals, coordination of research and database management, as well as IT support for each of the programmes. As in the last reporting period, during the past 12 months the Secretariat actively participated in several of the research programmes components.

The list of contracts by subsidiary body of the SCRS that has been managed by the Secretariat during the reference period (7 September 2023 to 6 September 2024) is provided below:

#### ***Subcommittee on Statistics***

1. Short-term contract for support for regional Caribbean data collection to improve reporting and data analysis.

#### ***Subcommittee on Ecosystems and Bycatch***

1. Short-term contract for pre-workshop analysis in preparation for the Second ICCAT Ecoregion Workshop (2023 funds);
2. Short-term contract for pilot product to test the utility of ICCAT ecoregions for supporting the development of ecosystem-based advice products (2023 funds);
3. Short-term contract for work supporting a quasi-quantitative risk assessment approach (2023 funds);
4. Workshop on evaluation of impact of ICCAT fisheries on marine turtles in the Mediterranean Sea (2023 funds);
5. Short-term contract for work supporting a trial of a risk equivalent management approach for a target species in order to demonstrate how to implement climate conditioned advice in ICCAT assessment context;
6. Workshop on evaluation of impact of ICCAT fisheries on marine turtles in the Mediterranean Sea (2024 funds).

#### ***Albacore Species Group***

1. Short-term contract for ICCAT North Atlantic albacore tuna reproductive study (2022 funds);
2. Short-term contract for continuation of the South Atlantic albacore tuna reproductive biology study;
3. Short-term contract for ICCAT North Atlantic albacore tuna reproductive study (2023 funds);
4. Short-term contract for improvement of the North Atlantic albacore MSE framework: stock synthesis reference case;
5. Short-term contract for continuing the improvement of the North Atlantic albacore MSE framework: stock synthesis reference case;
6. Short-term contract for improvement of the North Atlantic albacore MSE framework;

#### ***Billfishes Species Group***

1. Short-term contract for collection of biological samples and analysis for the study of billfish growth in the eastern Atlantic (Year #5);
2. Short-term contract for Atlantic blue marlin Gulf of Mexico reproductive biology study;
3. Short-term contract for 2024 billfishes tagging campaign off the southern Portuguese coast - Enhanced Programme for Billfish Research (EPBR);
4. Short-term contract for development of a regional workshop in West Africa for the improvement of statistical data collection and reporting on small scale (artisanal) fisheries - selection of a coordinator and work proposal;
5. Regional workshop in the Caribbean (West Atlantic) region for the improvement of the statistical data collection and reporting on small scale (artisanal) fisheries (Panama City, 19-23 February 2024).

#### ***Bluefin Tuna Species Group***

1. Short-term contract for GBYP Steering Committee external member (GBYP Phase 13);
2. Short-term contract for an expert in fisheries genomics to assist the Atlantic-Wide Research Programme for Bluefin Tuna Steering Committee (GBYP Phase 13);
3. Short-term contract for the 2023 aerial survey data analysis (GBYP Phase 13);
4. Short-term contract for the aerial survey for the monitoring of bluefin spawning aggregations in the Mediterranean Sea (Area A) (GBYP Phase 14);
5. Short-term contract for the aerial survey for the monitoring of bluefin spawning aggregations in the Mediterranean Sea (Areas C and E) (GBYP Phase 14);
6. Short-term contract for biological studies - sampling and analyses (GBYP Phase 13);
7. Short-term contract for biological studies - sampling and analyses (GBYP Phase 14);

8. Short-term contract for biological studies - adaptive divergence study using whole genome sequencing (GBYP Phase 13);
9. Short-term contract for the model-based sampling design for eastern bluefin tuna Close-Kin Mark-Recapture (CKMR) (GBYP Phase 13);
10. Ten memoranda of understanding for bluefin tuna electronic tagging (GBYP Phase 14).

### ***Sharks Species Group***

1. Short-term contract for studying the genetic population structure of Atlantic porbeagle (*Lamna nasus*) by using nuclear-genome-wide single-nucleotide polymorphism genotyping (2023 funds);
2. Short-term contract for North Atlantic shortfin mako (*Isurus oxyrinchus*) reproductive hormones analysis (2023 funds);
3. Short-term contract for filling knowledge gaps on age and growth of southern Atlantic shortfin mako shark (2023 funds);
4. Short-term contract for genetic population structure of porbeagle (*Lamna nasus*) in the Atlantic Ocean and border with other oceans by using population genomics approaches (2024 funds);
5. Short-term contract for filling knowledge gaps on age and growth of southern Atlantic shortfin mako shark (2024 funds);
6. Short-term contract for filling knowledge gaps on age and growth studies on priority shark species within the SRDCP;
7. Short-term contract for 2024 shark tagging campaign-SRDCP;
8. Short-term contract for North Atlantic shortfin mako (*Isurus oxyrinchus*) reproductive hormones analysis (2024 funds);
9. Short-term contract for filling knowledge gaps on age and growth of southern Atlantic shortfin mako shark (2024 funds).

### ***Small Tunas Species Group***

1. Short-term contract for SMTYP - Continuation of the collection and analysis of biological samples for growth, maturity and genetic studies (2022 funds);
2. Short-term contract for SMTYP - Continuation of the collection and analysis of biological samples for growth, maturity and genetic studies (2023 funds);
3. 2nd ICCAT Workshop on data limited stock assessment methods for small tunas (Madrid, 10-13 September 2024);
4. Workshop on small tunas reproductive biology (Malaga, 21-24 October 2024).

### ***Swordfish Species Group***

1. Short-term contract for continuation of the swordfish growth, reproduction and genetics studies: biological samples collection and analysis - Phase #5 (2022 funds);
2. Short-term contract for continuation of the swordfish growth, reproduction and genetics studies: biological samples collection and analysis - Phase #6 (2023 funds);
3. Short-term contract for Modelling approaches: Support to ICCAT North Atlantic swordfish MSE process (2023 funds);
4. Short-term contract for 2024 swordfish tagging campaign on the North-eastern Atlantic - SWOYP;
5. Short-term contract for 2024 swordfish tagging campaign on the North-western Atlantic - SWOYP;
6. Short-term contract for further development of the North Atlantic swordfish MSE (2024 funds);
7. Short-term contract for evaluation of the southern Atlantic swordfish closed-loop simulation setup and code;
8. Workshop of the SWOYP (Olhão, 27-29 February 2024);
9. Short-term contract for the update of sub-chapter 3.1.2 of the ICCAT Manual (longline fisheries)
10. Short-term contract for continuation of the swordfish growth, reproduction and genetics studies: biological samples collection and analysis - Phase #6 (2024 funds).

***Tropical Tunas Species Group***

1. Short-term contract for extension to AOTTP awareness and tag recovery activities in Senegal (2022 funds);
2. Short-term contract for extension to AOTTP awareness and tag recovery activities in Côte d'Ivoire (2022 funds);
3. Short-term contract for further development of the western Atlantic skipjack MSE (2022 funds);
4. Short-term contract for extension to AOTTP awareness and tag recovery activities in Senegal (2023 funds);
5. Short-term contract for extension to AOTTP awareness and tag recovery activities in Côte d'Ivoire (2023 funds);
6. Short-term contract for continuation of the collection and analysis of biological samples for age and growth of tropical tunas (St Helena) (2023 funds);
7. Short-term contract for continuation of the collection and analysis of biological samples for age and growth of tropical tunas (Côte d'Ivoire and Senegal) (2023 funds);
8. Short-term contract for planning and development of capacity building workshops on tropical tunas MSE (2023 funds);
9. Short-term contract for further development of the western Atlantic skipjack MSE (2023 funds);
10. Short-term contract for modelling approaches: Support to ICCAT tropical tunas multi-stock MSE process (2023 funds);
11. Short-term contract for further development of the western Atlantic skipjack MSE (2024 funds);
12. Short-term contract for modelling approaches: Support to ICCAT tropical tunas multi-stock MSE process (2024 funds);
13. Short-term contract for continuation of the collection and analysis of biological samples for age and growth of tropical tunas (Côte d'Ivoire and Senegal) (2024 funds);
14. Short-term contract for training workshops for scientists and managers on MSE for tropical tunas.

***Working Group on Stock Assessment Methods (WGSAM)***

1. Short-term contract for external review of the overall ICCAT MSE process (2023 funds);
2. Short-term contract for preparation of the ICCAT Workshop on the use of the bycatch estimation tool (BYET);
3. ICCAT Workshop on the use of the BYET (Madrid 15-17 July 2024).

**7. Major statistical tasks planned for 2025**

The Secretariat has been working since 2017 on the ICCAT Integrated Online Management System (IOMS). After being adopted by the SCRS and the Commission, the Commission's Online Reporting Technical Working Group (WG-ORT) has overseen the specifications and the governance of all the development process. The last [Meeting of the Online Reporting Technology Working Group \(WG-ORT\)](#) held in February 2024 delineated the content of the future work to be presented at the 2024 Commission meeting for revision and approval. The IOMS has been in production since 1 August 2021 (experimental year) and is currently managing the Annual Reports of the ICCAT CPCs. The IOMS is a crucial long-term ICCAT project that requires the full involvement/commitment of the Secretariat.

Additionally, the following tasks represent continuous database improvements and maintenance that will continue throughout 2024 and beyond. The major priority tasks for 2024/2025 include:

- Finalize upgrade of all the ICCAT-DB system from MS-SQL server 2016 to MS-SQL server 2022;
- Improve the "client applications" that manage the databases of the ICCAT-DB system;
- Continue the development of the statistical/tagging dashboards (dynamic querying);
- Continue the tagging database development for both conventional and electronic tagging;
- Continue the Biological Sampling database development (includes data recovery/integration);
- Continue the standardization of the electronic forms (TG: tagging forms, CP: compliance forms);
- Extend the automatic data integration tools for the standardized electronic forms;
- Continue the development of the GIS project (geo-reference all the pertinent ICCAT data available in ICCAT-DB);



- Continue the adaptation/migration of all the 50 databases of the ICCAT-DB system to the new ICCAT IOMS system;
- Continue the development of software libraries (in R and possibly Python) to standardize access and management of ICCAT public datasets;
- Continue the development of interactive applications to improve the dissemination of and simplify access to the core ICCAT public datasets through the web (T1 and T2 datasets, CATDIS, etc.);
- Study options to normalise in a single format (CSV) the existing agreed flat-form formats to provide Task 2 datasets (T2CE, T2SZ and T2CS).

## **8. Information and technology**

The most significant improvements to the Secretariat's Information Technology (IT) are described below.

### ***8.1 Creation of a selection process for a new IT colleague***

A selection process was designed to include an IT Specialist in the IT department. The candidates who met the selection requirements were filtered. The corresponding interviews were conducted, and the final decision was made.

### ***8.2 Selection of a new supplier to obtain ISO 27001 certification***

Several ISO 27001 and Data Protection certification service providers were consulted, and a comparative analysis was carried out. The most suitable for ICCAT is Aiuken, which has finally been selected.

### ***8.3 Certification of the ICCAT Secretariat under the ISO 27001 framework***

Preparatory work has been carried out for certification under the ISO 27001 standard following the selected security provider, as well as some online meetings with the Executive Secretary, Mr. Camille Jean Pierre Manel and the head of the financial department, Ms. Maria Bonacasa.

### ***8.4 Improvement of the 'Passwordless' access solution***

We are continuing to implement this project. We are still updating some internal systems, which is necessary to continue the project. We expect it to be completed next year.

### ***8.5 Cyber insurance renewal***

Cyber insurance has been renewed to mitigate the costs of a cyber-attack.

### ***8.6 External NAS disk array upgrade***

An old external Synology NAS disk cabinet is being upgraded with another based on SSD disks, also from Synology. All historical information accessible from the Secretariat's servers is being migrated, and the possibility of expanding its use on the local network is being opened.

### ***8.7 New computers for staff***

Nine laptops and one desktop computer have been purchased for users.

### ***8.8 Acquisition of two new Aruba AP-515 Wireless Access Points for external meetings***

Two new Aruba AP-515 Wireless Access Points for external meetings have been added to the two APs we had previously in response to the need to provide Internet access to external meetings of the Secretariat, mainly scientific ones. They have been used successfully this year at SCRS meetings.

***8.9 Additional Office 365 Backup Service***

Due to the importance and possible fragility of email in terms of computer security, an additional Microsoft 365 backup service is contracted through Acens Technologies.

***8.10 Hiring email protection service (Fortimail) and performance analysis of the Fortigate 100F perimeter firewall (Fortyanalyzer)***

Due to the importance and possible fragility of email in terms of computer security, an additional Microsoft 365 backup service has been contracted through Acens Technologies.

***8.11 Replacing two Hewlett Packard access switches with two Fortinet Fortiswitches due to age***

These are the ones that allow local network connections for Secretariat users. The Hewlett-Packard access switches were very old, and one started to fail. For this reason, we are considering replacing them. Due to the complexity of our local network services, their complete integration with the FortiGate platform/console is pending.

***8.12 Phishing Security Training***

This is the Security Awareness Service, through Kyocera, which is a fully automated awareness benchmark, Spear-Phishing simulation and online training to sensitize and protect employees against cyber threats. This solution does not access the users' real email and anonymizes the user's results.

Table 1. Task 1 fleet characteristics (form ST01-T1FC) submission status for 2023 data sent to ICCAT during the Reporting Period ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not reported or no active fleets).

Tableau 1. Situation de la soumission des caractéristiques des flottilles de la tâche 1 (formulaire ST01-T1FC) pour les données de 2023 envoyées à l'ICCAT pendant la période de déclaration ("vert" : avant la date limite; "jaune": après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); "cellule vide" : non déclarées ou pas de flottilles actives).

Tabla 1. Estado de la presentación de características de la flota de Tarea 1 (formulario ST01-T1FC) para los datos de 2023 enviado a ICCAT durante el periodo de comunicación ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o no hay flotas activas).

			Deadline (+1 day tolerance) / Fishery												
			2024-07-16												
Status	Party	Flag	ALBM	ALBN	ALBS	BFTF	BFTW	MULTIFISH	NONE-BC	SHARKS	SMTuna	SWOM	SWON	SWOS	TROP
CP	ALBANIA	Albania				0									
	ALGÉRIE	Algerie													
	ANGOLA	Angola								1				1	1
	BARBADOS	Barbados						0							
	BELIZE	Belize		1	1					1	1		1		1
	BRAZIL	Brazil								0				0	0
	CANADA	Canada		0				0					0		0
	CAP-VERT	Cape Verde											0		0
	CHINA PR.	China PR		1	1	1							1	1	1
	COSTA RICA	Costa Rica						0							
	CÔTE D'IVOIRE	Côte d'Ivoire													
	CURAÇAO	Curaçao						0							
	EGYPT	Egypt						0							
	EL SALVADOR	El Salvador													1
	EUROPEAN UNION	EU-Bulgaria								1	1				
		EU-Croatia													
		EU-Cyprus	1			1						1			
		EU-Denmark							1						
		EU-España				-0.2									
		EU-France													0
		EU-Germany													
		EU-Greece	1			1					1	1			
		EU-Ireland		1											
		EU-Italy	1			0						1			
		EU-Latvia							1						
		EU-Lithuania							1						
		EU-Malta	0			1			0			0			
		EU-Netherlands							1						
		EU-Portugal		0		0			0	0	0		0	0	0
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon													
	GABON	Gabon													
	GAMBIA	Gambia													
	GHANA	Ghana													0
	GRENADA	Grenada													
	GUATEMALA	Guatemala													1
	GUINEA BISSAU	Guinea Bissau													
	GUINEA ECUATORIAL	Guinea Ecuatorial													
	GUINÉE REP.	Guinée Rep													1
	HONDURAS	Honduras													
	ICELAND	Iceland				0									
	JAPAN	Japan				1	1								1
	KOREA REP.	Korea Rep				0									0
	LIBERIA	Liberia													
	LIBYA	Libya				-0.2									
	MAROC	Maroc				0				1		0	1		1
	MAURITANIA	Mauritania						-0.2							
	MEXICO	Mexico											1		1
	NAMIBIA	Namibia			1					1				1	
	NICARAGUA	Nicaragua													
	NIGERIA	Nigeria													
	NORWAY	Norway				1									
	PANAMA	Panama								1					1
	PHILIPPINES	Philippines													
	RUSSIA	Russian Federation							1						
	S. TOMÉ E PRINCEPE	S Tomé e Príncipe						0							
	SENEGAL	Senegal									0				0
	SIERRA LEONE	Sierra Leone													
	SOUTH AFRICA	South Africa			1					1				1	1
	St VINCENT & GRENADINES	St Vincent and Grenadines						-0.2							
	SYRIA	Syria													
	TRINIDAD & TOBAGO	Trinidad and Tobago													0
	TUNISIE	Tunisie				1						1			
	TÜRKIYE	Türkiye	0			0						0			
	UNITED KINGDOM	Great Britain			1	1									
		UK-Bermuda		1			1								
		UK-British Virgin Islands									0		1		0
		UK-Sta Helena													0
		UK-Turks and Caicos													
	UNITED STATES	USA			1								1		1
	URUGUAY	Uruguay													
	VENEZUELA	Venezuela													1
NCC	Bolivia	Bolivia													
	Chinese Taipei	Chinese Taipei			1	1									1
	Guyana	Guyana													
	Suriname	Suriname							0						0

NOTES: NO FISHING ACTIVITY (flags in green, 9 flags): FR-St Pierre et Miquelon, Honduras, Nicaragua, Philippines, Sierra Leone, Syria, Uruguay, Bolivia, Guyana

NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Latvia, EU-Lithuania, EU-Netherlands, Iceland, Russian Federation

ERRORS/UNDER REVISION (all orange cells): Angola, Canada, Côte d'Ivoire, EU-España, EU-France, EU-Germany, EU-Portugal, Guinea Ecuatorial, Libya, Mauritania, St Vincent and Grenadines, Trinidad and Tobago, Gibraltar



Table 3. Task 2 catch and effort (form ST03-T2CE) submission status for 2023 data sent to ICCAT during the Reporting Period ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not submitted or zero catch).

Tableau 3. Situation de la soumission des données de la prise et effort de la tâche 2 (formulaire-ST03-T2CE) pour les données de 2023 envoyées à l'ICCAT pendant la période de déclaration ("vert" : avant la date limite ; "jaune": après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); "cellule vide" : non soumises ou prise zéro).

Tabla 3. Estado de la presentación de los datos de captura y esfuerzo de la Tarea 2 (Formulario ST03-T2CE) para los datos de 2023 enviados a ICCAT durante el periodo de comunicación ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o captura cero).

Status	Party	Flag	Deadline (+1 day tolerance): 2024-07-16																
			Tuna (major sp.)									Small tuna	Sharks (major sp.)						
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT	(any of 13 sp)	BSH	POR	SMA			
CP	ALBANIA	Albania			0														
	ALGÉRIE	Algerie											1		1				
	ANGOLA	Angola		1									1		1				1
	BARBADOS	Barbados	1	1			1		1		1		1		1				
	BELIZE	Belize	1	1					1		1		1		1				
	BRAZIL	Brazil	0	0	0			0	0		0		0		0				0
	CANADA	Canada	0	0	0	0					0		0		0		0		0
	CAP-VERT	Cape Verde		0							0		0		0				
	CHINA PR.	China PR	1	1	1	1	1					1	1	1					1
	COSTA RICA	Costa Rica	0	0			0	0	0		0		0		0				
	CÔTE D'IVOIRE	Côte d'Ivoire	1	1			1		1		1		1		1				
	CURAÇAO	Curaçao		0			0		0		0		0		0				
	EGYPT	Egypt																	
	EL SALVADOR	El Salvador		1							1		1		1				
	EUROPEAN UNION	EU-Bulgaria													1				
		EU-Croatia	1		1						1				1				
		EU-Cyprus	1		1					1						1			
		EU-Denmark																	
		EU-España	0	0	0			0	0		0		0		0				0
		EU-France	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
		EU-Germany																	
		EU-Greece	1		1						1								
		EU-Ireland	1		1						1								
		EU-Italy			1						1				1				
		EU-Latvia																	
		EU-Lithuania																	
		EU-Malta	1		1						1				1		1		
		EU-Netherlands			1						1				1				
		EU-Portugal	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon																	
	GABON	Gabon																	
	GAMBIA	Gambia																	
	GHANA	Ghana																	
	GRENADA	Grenada																	
	GUATEMALA	Guatemala		1							1			1					
	GUINEA BISSAU	Guinea Bissau																	
	GUINEA ECUATORIAL	Guinea Ecuatorial																	
	GUINÉE REP.	Guinée Rep		1							1			1					
	HONDURAS	Honduras																	
	ICELAND	Iceland			0														
	JAPAN	Japan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	KOREA REP.	Korea Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LIBERIA	Liberia																	
	LIBYA	Libya																	
	MAROC	Maroc		1	0						1			1		0		1	
	MAURITANIA	Mauritania																	
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NAMIBIA	Namibia	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1
	NICARAGUA	Nicaragua																	
	NIGERIA	Nigeria																	
	NORWAY	Norway			1														
	PANAMA	Panama	1	1				1	1				1		1		1		
	PHILIPPINES	Philippines																	
	RUSSIA	Russian Federation																	1
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe																	
	SENEGAL	Senegal		0							0		0		0				
	SIERRA LEONE	Sierra Leone																	
	SOUTH AFRICA	South Africa	1	1			1				1			1		1			1
	St VINCENT & GRENADINES	St Vincent and Grenadines																	
	SYRIA	Syria																	
	TRINIDAD & TOBAGO	Trinidad and Tobago	-0.2	-0.2															
	TUNISIE	Tunisie																	
	TÜRKIYE	Türkiye	0		0														
	UNITED KINGDOM	Great Britain	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		UK-Bermuda	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		UK-British Virgin Islands																	
		UK-Sta Helena		1															
		UK-Turks and Caicos																	
	UNITED STATES	USA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	URUGUAY	Uruguay																	
	VENEZUELA	Venezuela	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1
NCC	Bolivia	Bolivia																	
	Chinese Taipei	Chinese Taipei	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1
	Guyana	Guyana																	
	Suriname	Suriname	0	0															

NOTES: NO FISHING ACTIVITY (flags in green, 9 flags): FR-St Pierre et Miquelon, Honduras, Nicaragua, Philippines, Sierra Leone, Syria, Uruguay, Bolivia, Guyana  
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Latvia, EU-Lithuania, EU-Netherlands, Iceland, Russian Federation  
 ERRORS/UNDER REVISION (all orange cells): Angola, Canada, Côte d'Ivoire, EU-España, EU-France, EU-Germany, EU-Portugal, Guinea Ecuatorial, Libya, Mauritania, St Vincent and Grenadines, Trinidad and Tobago, Gibraltar



Table 4. Task 2 size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2023 data sent to ICCAT during the Reporting Period ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not submitted or no sampling).

Tableau 4. Situation de la soumission des données de taille de la tâche 2 (formulaires: ST04-T2SZ : échantillons observés ; ST05-CAS: prise par taille) pour les données de 2023 envoyées à l'ICCAT pendant la période de déclaration ("vert" : avant la date limite ; "jaune": après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); "cellule vide" : non soumises ou pas d'échantillonnage).

Tabla 4. Estado de la presentación de los datos de talla de la Tarea 2 (formularios: ST04-T2SZ - muestras observadas; ST05-CAS: captura por talla) para los datos de 2023 enviados a ICCAT durante el periodo de comunicación ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o sin muestreo).

			Deadline (+1 day tolerance): 2024-07-16															
Status	Party	Flag	Tuna (major sp.)									Small tuna (any of 13 sp)	Sharks (major sp.)					
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM		YFT	BSH	POR	SMA		
CP	ALBANIA	Albania																
	ALGÉRIE	Algerie			0						1		0					
	ANGOLA	Angola																
	BARBADOS	Barbados		1								1						
	BELIZE	Belize		1	1						1		1	1				
	BRAZIL	Brazil		0	0								0					0
	CANADA	Canada		1	1	1	1				1	1	1			1		1
	CAP-VERT	Cape Verde								0			0					
	CHINA PR.	China PR		1	1	1					1		1					
	COSTA RICA	Costa Rica																
	CÔTE D'IVOIRE	Côte d'Ivoire		-0.2	-0.2													
	CURAÇAO	Curaçao																
	EGYPT	Egypt																
	EL SALVADOR	El Salvador			1					1			1		1			
	EUROPEAN UNION	EU-Bulgaria																
		EU-Croatia				1						1						
		EU-Cyprus		1		1					1		1					
		EU-Denmark																
		EU-España		0	0	0			-0.2	0		0		0		-0.2		-0.2
		EU-France		1	1	-0.2	1	1	1		1		1		1	1	1	1
		EU-Germany																
		EU-Greece		1		1						1						
		EU-Ireland		1														
		EU-Italy				1						1						
		EU-Latvia																
		EU-Lithuania																
		EU-Malta		1		1						1						
		EU-Netherlands																
		EU-Portugal		0	1	1					1		1		1	1	1	1
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon								1		1		1		1	1	1
	GABON	Gabon																
	GAMBIA	Gambia																
	GHANA	Ghana																
	GRENADA	Grenada																
	GUATEMALA	Guatemala			1					1			1		1			
	GUINEA BISSAU	Guinea Bissau																
	GUINEA ECUATORIAL	Guinea Ecuatorial																
	GUINÉE REP.	Guinée Rep																
	HONDURAS	Honduras																
	ICELAND	Iceland				0												
	JAPAN	Japan				1												
	KOREA REP.	Korea Rep		1	1	1				1		1		1				
	LIBERIA	Liberia		0	0		0	0	0			0		0				
	LIBYA	Libya																
	MAROC	Maroc			0	0				0		0		1		0	0	
	MAURITANIA	Mauritania																
	MEXICO	Mexico		1	1	1	1	1	1	1	1	1	1	1	1			1
	NAMIBIA	Namibia		1	1												1	
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway				1												
	PANAMA	Panama		1	1					1			1		1		1	
	PHILIPPINES	Philippines																
	RUSSIA	Russian Federation								1					1		1	
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe																
	SENEGAL	Senegal			0					0			0		0			
	SIERRA LEONE	Sierra Leone																
	SOUTH AFRICA	South Africa		1	1							1		1		1		1
	St VINCENT & GRENADINES	St Vincent and Grenadines																
	SYRIA	Syria																
	TRINIDAD & TOBAGO	Trinidad and Tobago			0									0				
	TUNISIE	Tunisie				1						1						
	TÜRKIYE	Türkiye										0						
	UNITED KINGDOM	Great Britain																
		UK-Bermuda																
		UK-British Virgin Islands																
		UK-Sta Helena			1		1			1			1		1			
		UK-Turks and Caicos																
	UNITED STATES	USA		1	1	1	1	1	1	1		1	1	1	1	1	1	1
	URUGUAY	Uruguay																
	VENEZUELA	Venezuela			1					1			1		1			
NCC	Bolivia	Bolivia																
	Chinese Taipei	Chinese Taipei		1	1		1	1			1	1	1	1		1		1
	Guyana	Guyana																
	Suriname	Suriname													0			

NOTES: NO FISHING ACTIVITY (flags in green, 9 flags): FR-St Pierre et Miquelon, Honduras, Nicaragua, Philippines, Sierra Leone, Syria, Uruguay, Bolivia, Guyana  
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Latvia, EU-Lithuania, EU-Netherlands, Iceland, Russian Federation  
 ERRORS/UNDER REVISION (all orange cells): Angola, Canada, Côte d'Ivoire, EU-España, EU-France, EU-Germany, EU-Portugal, Guinea Ecuatorial, Libya, Mauritania, St Vincent and Grenadines, Trinidad and Tobago, Gibraltar

Table 5. Consolidated view of the Report Cards for 2023 data (Tables 1 to 4, where at least one cell is not empty). The order of priority given to the colours on the consolidation was: orange/yellow/green.

Tableau 5. Vision consolidée des cartes de déclaration pour les données de 2023 (tableaux 1 à 4, où au moins une cellule n'est pas vide). L'ordre de priorité donné aux couleurs dans la consolidation est : orange/jaune/vert.

Tabla 5. Visión consolidada de los catálogos de comunicación para los datos de 2023 (Tablas 1 a 4, con al menos una celda no vacía). El orden de prioridad asignado a los colores en la consolidación es: naranja/amarillo/verde.

Status	Party	Flag	Task 1		Task 2	
			T1FC	T1NC	T2CE	T2SZ/CS
CP	ALBANIA	Albania	0	0	0	0
	ALGÉRIE	Algerie	1	1	1	0
	ANGOLA	Angola	1	-0.2	1	0
	BARBADOS	Barbados	0	1	1	1
	BELIZE	Belize	1	1	1	1
	BRAZIL	Brazil	0	0	0	0
	CANADA	Canada	0	-0.2	0	1
	CAP-VERT	Cape Verde	0	0	0	0
	CHINA PR.	China PR	1	1	1	1
	COSTA RICA	Costa Rica	0	1	0	0
	CÔTE D'IVOIRE	Côte d'Ivoire	1	1	1	-0.2
	CURAÇAO	Curaçao	0	0	0	0
	EGYPT	Egypt	0	0	0	0
	EL SALVADOR	El Salvador	1	1	1	1
	EUROPEAN UNION	EU-Bulgaria	1	1	1	0
		EU-Croatia	1	1	1	1
		EU-Cyprus	1	1	1	1
		EU-Denmark	1	1	1	1
		EU-España	-0.2	-0.2	0	-0.2
		EU-France	0	1	-0.2	-0.2
		EU-Germany	1	-0.2	1	1
		EU-Greece	1	1	1	1
		EU-Ireland	1	0	1	1
		EU-Italy	0	1	1	1
		EU-Latvia	1	1	1	1
		EU-Lithuania	1	1	1	1
		EU-Malta	0	1	1	1
		EU-Netherlands	1	1	1	1
		EU-Portugal	0	1	-0.2	0
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon	1	1	1	1
	GABON	Gabon	1	0	1	0
	GAMBIA	Gambia	1	0	1	0
	GHANA	Ghana	0	0	0	0
	GRENADA	Grenada	0	0	0	0
	GUATEMALA	Guatemala	1	1	1	1
	GUINEA BISSAU	Guinea Bissau	1	0	1	0
	GUINEA ECUATORIAL	Guinea Ecuatorial	1	-0.2	1	0
	GUINÉE REP.	Guinée Rep	1	1	1	1
	HONDURAS	Honduras	1	1	1	1
	ICELAND	Iceland	0	0	0	0
	JAPAN	Japan	1	0	1	1
	KOREA REP.	Korea Rep	0	0	1	1
	LIBERIA	Liberia	0	0	0	0
	LIBYA	Libya	-0.2	0	0	0
	MAROC	Maroc	0	0	0	0
	MAURITANIA	Mauritania	-0.2	1	0	0
	MEXICO	Mexico	1	1	1	1
	NAMIBIA	Namibia	1	1	1	1
	NICARAGUA	Nicaragua	1	1	1	1
	NIGERIA	Nigeria	1	1	1	1
	NORWAY	Norway	1	1	1	1
	PANAMA	Panama	1	1	1	1
	PHILIPPINES	Philippines	1	1	1	1
	RUSSIA	Russian Federation	1	1	1	1
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe	0	1	0	0
	SENEGAL	Senegal	0	0	0	0
	SIERRA LEONE	Sierra Leone	1	0	1	1
	SOUTH AFRICA	South Africa	1	0	1	1
	St VINCENT & GRENADINES	St Vincent and Grenadines	-0.2	-0.2	0	0
	SYRIA	Syria	1	1	1	1
	TRINIDAD & TOBAGO	Trinidad and Tobago	0	0	-0.2	0
	TUNISIE	Tunisie	1	1	1	1
	TÜRKIYE	Türkiye	0	0	0	0
	UNITED KINGDOM	Great Britain	1	1	1	1
		UK-Bermuda	1	1	1	1
		UK-British Virgin Islands	0	0	0	0
		UK-Sta Helena	0	1	1	1
		UK-Turks and Caicos	0	0	0	0
	UNITED STATES	USA	1	1	1	1
	URUGUAY	Uruguay	1	1	1	1
	VENEZUELA	Venezuela	1	1	1	1
NCC	Bolivia	Bolivia	1	1	1	1
	Chinese Taipei	Chinese Taipei	1	1	1	1
	Guyana	Guyana	1	1	1	1
	Suriname	Suriname	0	0	0	0

NOTES: NO FISHING ACTIVITY (flags in green, 9 flags): FR-St Pierre et Miquelon, Honduras, Nicaragua, Philippines, Sierra Leone, Syria, Uruguay, Bolivia, Guyana

NO TARGETING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Latvia, EU-Lithuania, EU-Netherlands, Iceland, Russian Federation

ERRORS/UNDER REVISION (all orange cells): Angola, Canada, Côte d'Ivoire, EU-España, EU-France, EU-Germany, EU-Portugal, Guinea Ecuatorial, Libya, Mauritania, St Vincent and Grenadines, Trinidad and Tobago, Gibraltar

Table 6. SCRS scorecard on Task 1/2 data availability for all the major ICCAT species by stock/region (methodology in SCRS/2019/045).

Tableau 6. Fiche de score du SCRS sur la disponibilité des données de tâche 1/2 pour toutes les principales espèces relevant de l'ICCAT, par stock/région (méthodologie détaillée dans SCRS/2019/045).

Tabla 6. Ficha de puntuaciones del SCRS sobre disponibilidad de datos de Tarea 1/2 para todas las especies principales de ICCAT por stock/región (metodología descrita en el SCRS/2019/045).

**SCORECARD on Task 1/2 availability for the main ICCAT fisheries (terminal year: 2023)**

FisheryID	Spc. Group	Species	Species/stock	SCORES (by time series)			N. flag fisheries ranked			Change (%) against 1993-22 (30 yrs)
				30 years (1994-23)	20 years (2004-23)	10 years (2014-23)	30 years (1994-23)	20 years (2004-23)	10 years (2014-23)	
1	Temperate tunas	ALB	ALB-N stock	7.21	8.19	7.96	13	12	9	1%
2			ALB-S stock	6.37	6.30	7.11	9	10	7	5%
3			ALB-M stock	2.64	4.56	5.87	12	9	7	1%
4		BFT	BFT-E stock (ATE region)	6.43	7.62	8.79	10	9	9	4%
5			BFT-E stock (MED region)	3.96	5.09	6.01	25	20	16	3%
6			BFT-W stock	8.62	9.36	9.49	9	7	6	2%
7	Tropical tunas	BET	BET-A stock (AT + MD)	6.71	7.56	7.74	30	28	29	0%
8			YFT	YFT-A stock (AT+MD)	6.23	6.99	7.00	37	34	31
10		SKJ	SKJ-E stock	7.26	7.77	7.76	17	16	14	1%
11			SKJ-W stock	4.45	3.82	3.91	6	5	6	3%
12	SWO & billfish	SWO	SWO-N stock	8.22	8.74	8.44	11	11	12	1%
13			SWO-S stock	7.18	7.36	7.20	9	8	7	0%
14			SWO-M stock	5.16	5.91	7.78	10	10	8	5%
15		BUM	BUM-A stock (AT + MD)	3.87	3.83	3.55	34	34	36	2%
16		WHM	WHM-A stock (AT + MD)	5.17	5.29	4.44	18	17	16	1%
17		SAI	SAI-E stock	3.00	3.27	2.64	17	15	16	1%
18			SAI-W stock	3.80	4.01	4.38	18	15	11	2%
19		SPF	SPF-E stock	5.03	4.00	2.83	4	3	3	6%
20			SPF-W stock	3.21	3.48	2.92	6	6	3	2%
21		Major shark species	BSH	BSH-N region	4.79	5.87	6.65	6	5	4
22	BSH-S region			5.75	7.14	6.79	6	6	6	3%
23	POR		POR-ANE stock	0.50	0.99	1.24	10	14	8	1%
24			POR-ANW stock	3.53	3.00	4.25	4	7	7	5%
25			POR-ASE stock	0.70	1.38	0.67	4	3	2	0%
26			POR-ASW stock	0.48	0.88	0.50	6	5	1	0%
27	SMA		SMA-N region	4.52	5.76	5.76	6	7	7	1%
28			SMA-S region	5.52	7.34	6.69	7	7	6	1%
29	Small tuna species	BLF	ATL	2.96	3.79	4.38	15	10	7	3%
30			BLT	ATL	1.76	1.90	1.88	7	8	8
31		MED	ATL	0.88	1.54	2.83	18	15	11	7%
32			BON	ATL	2.43	2.80	3.28	29	24	14
33		BOP	MED	0.68	0.99	1.14	9	9	7	3%
34			ATL	1.23	1.68	1.67	4	4	3	0%
35		BRS	MED	0.00	0.00	0.00	5	3	1	0%
36			ATL	0.92	1.67	0.33	3	2	2	0%
37		CER	ATL	0.00	0.67	0.80	1	5	4	0%
38			COM	MED	0.00	0.00	0.00	2	3	2
39		FRI	ATL	4.71	5.42	5.30	27	23	19	2%
40			KGM	ATL	0.98	1.45	1.43	8	6	5
41		LTA	ATL	4.12	5.12	4.88	30	21	16	1%
42			MED	0.88	1.51	1.96	17	13	10	1%
43		MAW	ATL	1.20	1.23	0.94	15	11	8	3%
44			SSM	ATL	0.00	0.00	0.00	4	3	2
45		WAH	ATL	0.98	1.28	1.33	35	25	18	1%

Table 7. Summary of the total number of conventional tags by flag (released and/or recovered, covering all ICCAT species) reported to ICCAT during the Reporting Period. The figures shown include data received directly by ICCAT, as well as those provided by the GBYP and AOTTP projects.

Tableau 7. Résumé du nombre total de marques conventionnelles par pavillon (apposées et/ou récupérées, couvrant toutes les espèces de l'ICCAT) déclarées à l'ICCAT au cours de la période de déclaration. Les chiffres indiqués incluent les données reçues directement par l'ICCAT ainsi que les données fournies par les projets GBYP et AOTTP.

Tabla 7. Resumen de número marcas convencionales por pabellón (colocadas y/o recuperadas, para todas las especies de ICCAT) comunicadas a ICCAT durante el periodo de comunicación. Las cifras mostradas incluyen los datos recibidos directamente por ICCAT, así como los aportados por los proyectos GBYP y AOTTP.

		Release Flag																						Total				
		Antigua and Barbuda	Aruba	Bahamas	Belize	Canada	Dominican Republic	EU.Croatia	EU.Denmark	EU.España	EU.France	EU.Ireland	EU.Italy	EU.Poland	EU.Portugal	EU.Sweden	Maroc	Norway	Panama	Senegal	Turkey	Turkiye	U.S.A.		UK.Bermuda	UK.Sta Helena	United Kingdom	UNCL.FLEETS
Recovered by	Albania																								2	3	5	
	Belize				4																							4
	Canada					2																					1	4
	El Salvador																								1		1	2
	EU.Croatia												1														2	3
	EU.Denmark							2																				2
	EU.España					1		2	15	8	9	1									1			2	7		31	77
	EU.France								2	10	1												1	1	3	5	23	
	EU.Greece																										1	1
	EU.Ireland									2																		2
	EU.Malta					2			4	5	6													1	5		32	55
	EU.Portugal								1							1											4	6
	Maroc										1						1										2	4
	Norway																	1										1
	Senegal																					33						33
	Tunisie								1	3	3	1												1	1		10	20
	Turkiye							1				1															3	5
U.S.A.					2																					3	5	
UK.Sta Helena																										77	77	
UNCL.FLEETS																										39	39	
<b>Total recovered</b>		0	0	0	4	7	0	1	5	27	27	18	2	0	1	1	0	1	0	34	0	0	46	0	16	81	97	368
<b>Not Recovered</b>		2	1	10	1	92	3	133	547	17	399	27	5	30		9	9	3	11	1	32	2839	1	13	965	50	5200	
<b>Total</b>		2	1	10	5	99	3	1	138	574	44	417	29	5	31	1	9	10	3	45	1	32	2885	1	29	1046	147	5568

Table 8. Summary of the conventional tags distributed by the Secretariat during the Reporting Period.

Tableau 8. Résumé des marques conventionnelles distribuées par le Secrétariat au cours de la période de déclaration.

Tabla 8. Resumen de las marcas convencionales distribuidas por la Secretaría durante el periodo de comunicación.

TagAlfa	From	To	Quantity	DateSent	Institution	Principal Investigator	Country
BYP	88776	89775	1000	2023-09-19	Cefas Laboratory	David Righton	UNITED KINGDOM
SEC	50850	51099	250	2024-03-06	IEO	Salvador García Barcelona	EU.ESPAÑA
SEC	92051	92250	200	2024-04-12	Universidade Federal Rural de Pernambuco (UFRP)	Paulo Travassos	BRASIL
SEC	92251	92350	100	2024-05-08	IPMA	Rui Coelho	EU.PORTUGAL
SEC	92001	92050	50	2024-05-12	IEO	Francisco Abascal	EU.ESPAÑA
BYP	89801	90300	500	2024-07-18	Marine Institute	Alan Drumm	EU.IRELAND
BYP	90301	90500	200	2024-08-25	Technical University of Denmark	Kim Aarestrup	EU.DENMARK



Table 9. Summary of 2024 Domestic Observer information (form ST09) provided during the Reporting Period (including discards) by CPCs and species groups. Values are in numbers.

Tableau 9. Résumé des informations de 2024 relatives aux observateurs nationaux (formulaire ST09) fournies pendant la période de déclaration (rejets compris) par CPC et groupe d'espèces au titre. Les valeurs sont exprimées en nombre.

Tabla 9. Resumen de la información de 2024 de los observadores nacionales (formulario ST09) facilitada durante el periodo de comunicación (incluidos los descartes) por CPC y grupos de especies. Los valores se expresan en números

Flag code/Values	SpeciesGroup								
	1-Tuna (major sp.)	2-Tuna (small)	3-Tuna (other)	4-Sharks (major)	5-Sharks (other)	6-Other Species	7-Sea turtles	8-Seabirds	9-Mammals
Number of live discards									
MAR	21				42				
CAN	54				50	10	1	4	
CHN	16		1		6	8		2	
CUW	13	12			1	21	106	9	
EU-CYP	17		2		7	7	2	1	
EU-ESP	1306	660	118		240	1656	3906	329	7
EU-FRA	3371	1050	1		32	929	2826	174	
EU-GRC	140	2	8		6	14	15	2	
EU-HRV	168		2		21	3	6	11	
EU-IRL	1								
EU-ITA	20								
EU-MLT	50		2		2		1		
EU-PRT	65		40		71	20	7	6	1
GBR	1						1		
GTM	25	19				67	123	19	
JPN					15	25		24	24
KOR	45	11	47		37	27	41		7
MEX	10	2	1		3	4	1		
NOR	5								
PAN	569	123	31		80	207	518	80	
RUS	12	48			24	24			
SEN	52	6	1			6	5	3	
SLV	144	123			14	324	1058	115	
SUR		45							
TAI	530	68	140		171	122	202		
TUN	19								
TUR	10								
UK-BMU	3	1							
UK-SHN	28	8							
USA	159	32	45		45	137	32	7	6
<b>ZAF</b>	<b>726</b>	<b>1</b>	<b>131</b>		<b>155</b>	<b>59</b>	<b>32</b>	<b>6</b>	<b>9</b>
Number of dead discards									
MAR	21				42				
CAN	54				50	10	1	4	
CHN	16		1		6	8		2	
CUW	13	12			1	21	106	9	
EU-CYP	17		2		7	7	2	1	
EU-ESP	1306	660	118		240	1656	3906	329	7
EU-FRA	3371	1050	1		32	929	2826	174	
EU-GRC	140	2	8		6	14	15	2	
EU-HRV	168		2		21	3	6	11	
EU-IRL	1								
EU-ITA	20								
EU-MLT	50		2		2		1		
EU-PRT	65		40		71	20	7	6	1
GBR	1						1		
GTM	25	19				67	123	19	
JPN					15	25		24	24
KOR	45	11	47		37	27	41		7
MEX	10	2	1		3	4	1		
NOR	5								
PAN	569	123	31		80	207	518	80	
RUS	12	48			24	24			
SEN	52	6	1			6	5	3	
SLV	144	123			14	324	1058	115	
SUR		45							
TAI	530	68	140		171	122	202		
TUN	19								
TUR	10								
UK-BMU	3	1							
UK-SHN	28	8							
USA	159	32	45		45	137	32	7	6
<b>ZAF</b>	<b>726</b>	<b>1</b>	<b>131</b>		<b>155</b>	<b>59</b>	<b>32</b>	<b>6</b>	<b>9</b>
Number of discards unknown state									
MAR	21				42				
CAN	54				50	10	1	4	
CHN	16		1		6	8		2	
CUW	13	12			1	21	106	9	
EU-CYP	17		2		7	7	2	1	
EU-ESP	1306	660	118		240	1656	3906	329	7
EU-FRA	3371	1050	1		32	929	2826	174	
EU-GRC	140	2	8		6	14	15	2	
EU-HRV	168		2		21	3	6	11	
EU-IRL	1								
EU-ITA	20								
EU-MLT	50		2		2		1		
EU-PRT	65		40		71	20	7	6	1
GBR	1						1		
GTM	25	19				67	123	19	
JPN					15	25		24	24
KOR	45	11	47		37	27	41		7
MEX	10	2	1		3	4	1		
NOR	5								
PAN	569	123	31		80	207	518	80	
RUS	12	48			24	24			
SEN	52	6	1			6	5	3	
SLV	144	123			14	324	1058	115	
SUR		45							
TAI	530	68	140		171	122	202		
TUN	19								
TUR	10								
UK-BMU	3	1							
UK-SHN	28	8							
USA	159	32	45		45	137	32	7	6
<b>ZAF</b>	<b>726</b>	<b>1</b>	<b>131</b>		<b>155</b>	<b>59</b>	<b>32</b>	<b>6</b>	<b>9</b>



Table 11. Sea turtle species dead discards (DD), live discards (DL), and discards of unknown state in data reported on Domestic Observer form (ST09) during the Reporting Period.

Tableau 11. Données sur les rejets morts (DD), les rejets vivants (DL), et le rejet d'état inconnu de tortues marines déclarées au titre dans le formulaire des observateurs nationaux (ST09) pendant la période de déclaration.

Tabla 11. Datos de descartes muertos (DD), descartes vivos (DL), y descartes en estado desconocido de especies de tortugas marinas comunicados en el formulario de observadores internos (ST09) durante el período de comunicación.

Species	CPC															
	CAN	CHN	CUW	EU-CYP	EU-ESP	EU-FRA	EU-GRC	EU-HRV	EU-PRT	GTM	JPN	PAN	SEN	SLV	USA	ZAF
<i>Caretta caretta</i>																
Sum of No. live discards	3		9		182	54	2	7	4	6	35	54	2	81	1	2
Sum of No. dead discards	0		0		8	1	0	0	1	0	16	1	0	0	0	0
<b>Sum of No. unknown discards</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<i>Chelonia mydas</i>																
Sum of No. live discards				1	54	17						11	0	5		3
Sum of No. dead discards				0	0	0						0	0	0		0
<b>Sum of No. unknown discards</b>				<b>0</b>	<b>0</b>	<b>0</b>						<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>
Cheloniidae																
Sum of No. live discards					61						64	4		4		
Sum of No. dead discards					0						156	0		0		
<b>Sum of No. unknown discards</b>					<b>0</b>						<b>6</b>	<b>0</b>		<b>0</b>		
<i>Dermochelys coriacea</i>																
Sum of No. live discards	3	21			2	3			1		38			6	8	
Sum of No. dead discards	0	0			0	0			0		4			0	0	
<b>Sum of No. unknown discards</b>	<b>0</b>	<b>0</b>			<b>1</b>	<b>0</b>			<b>0</b>		<b>2</b>			<b>0</b>	<b>0</b>	
<i>Eretmochelys imbricata</i>																
Sum of No. live discards					4							1		4		
Sum of No. dead discards					2							0		0		
<b>Sum of No. unknown discards</b>					<b>0</b>							<b>0</b>		<b>0</b>		
<i>Lepidochelys kempii</i>																
Sum of No. live discards			1		2											
Sum of No. dead discards			0		0											
<b>Sum of No. unknown discards</b>			<b>0</b>		<b>0</b>											
<i>Lepidochelys olivacea</i>																
Sum of No. live discards			2		161	151				17	5	42	0	66		
Sum of No. dead discards			0		2	1				0	0	0	0	0		
Sum of No. unknown discards			0		1	0				0	0	0	0	0		

Table 12. Seabird species dead discards (DD), live discards (DL), and discards of unknown state in data reported on Domestic Observer form (ST09) during the Reporting Period.

Tableau 12. Données sur les rejets morts (DD), les rejets vivants (DL), et le rejet d'état inconnu d'oiseaux de mer déclarées au titre dans le formulaire des observateurs nationaux (ST09) pendant la période de déclaration.

Table 12. Datos de descartes muertos (DD), descartes vivos (DL), y descartes en estado desconocido de especies de aves marinas comunicados en el formulario de observadores internos (ST09) durante el período de comunicación.

Species	JPN	KOR	ZAF	
<b>Diomedea dabbenena</b>				
Sum of No. live discards		0		
Sum of No. dead discards		1		
Sum of No. unknown discards		0		
<b>Diomedea epomophora</b>				
Sum of No. live discards			0	
Sum of No. dead discards			1	
Sum of No. unknown discards			0	
<b>Diomedea exulans</b>				
Sum of No. live discards		0		
Sum of No. dead discards		1		
Sum of No. unknown discards		0		
<b>Fulmarus glacialis</b>				
Sum of No. live discards		0		
Sum of No. dead discards		2		
Sum of No. unknown discards		0		
<b>Macronectes giganteus</b>				
Sum of No. live discards		0		
Sum of No. dead discards		2		
Sum of No. unknown discards		0		
<b>Macronectes halli</b>				
Sum of No. live discards		0		
Sum of No. dead discards		2		
Sum of No. unknown discards		0		
<b>Morus bassanus</b>				
Sum of No. live discards		0		
Sum of No. dead discards		14		
Sum of No. unknown discards		0		
<b>Phoebastria fusca</b>				
Sum of No. live discards		0		
Sum of No. dead discards		10		
Sum of No. unknown discards		0		
<b>Puffinus gravis</b>				
Sum of No. live discards		0		
Sum of No. dead discards		8		
Sum of No. unknown discards		0		
<b>Thalassarche chrysostoma</b>				
Sum of No. live discards		0	0	
Sum of No. dead discards		11	11	
Sum of No. unknown discards		0	0	
<b>Thalassarche melanophrys</b>				
Sum of No. live discards		0	0	0
Sum of No. dead discards		6	5	1
Sum of No. unknown discards		0	0	2
<b>Thalassarche chlororhynchos</b>				
Sum of No. live discards				0
Sum of No. dead discards				0
Sum of No. unknown discards				0
<b>Thalassarche cauta</b>				
Sum of No. live discards				0
Sum of No. dead discards				1
Sum of No. unknown discards				0
<b>Procellaria aequinoctialis</b>				
Sum of No. live discards				0
Sum of No. dead discards				0
Sum of No. unknown discards				0
<b>Thalassarche bulleri</b>				
Sum of No. live discards		0		
Sum of No. dead discards		5		
Sum of No. unknown discards		0		

Table 13. Mammals species dead discards (DD), live discards (DL), and discards of unknown state in data reported on Domestic Observer form (ST09) during the Reporting Period.

Tableau 13. Données sur les rejets morts (DD), les rejets vivants (DL), et le rejet d'état inconnu des mammifères déclarés au titre dans le formulaire des observateurs nationaux (ST09) pendant la période de déclaration.

Table 13. Datos de descartes muertos (DD), descartes vivos (DL), y descartes en estado desconocido de especies de mamíferos comunicados en el formulario de observadores internos (ST09) durante el período de comunicación.

Species	CPC			
	EU-ESP	EU-PRT	JPN	USA
Balaenoptera edeni				
Sum of No. live discards		8		
Sum of No. dead discards		0		
<b>Sum of No. unknown discards</b>		<b>0</b>		
Delphinidae				
Sum of No. live discards		0		10
Sum of No. dead discards		0		1
<b>Sum of No. unknown discards</b>		<b>1</b>		<b>0</b>
Delphinus delphis				
Sum of No. live discards			1	
Sum of No. dead discards			0	
<b>Sum of No. unknown discards</b>			<b>0</b>	
Globicephala melas				
Sum of No. live discards				14
Sum of No. dead discards				1
Sum of No. unknown discards				0



Table 15. Task 1 catches (t), by flag, species, fleet and year, not yet integrated into the ICCAT-DB system for various reasons. Some of Those series may require SCRS guidance and approval.

Tableau 15. Prises de la tâche 1 (t) par pavillon, espèce, flottille et année, qui n'ont pas encore été intégrées dans le système ICCAT-DB pour diverses raisons. Certains de ces séries peuvent nécessiter l'orientation et l'approbation du SCRS.

Tabla 15. Datos de capturas de Tarea 1 (t) por pabellón, especie, flota y año, que no se han integrado todavía en el sistema de bases de datos de ICCAT debido a diversas razones. Algunas de estas series pueden requerir la orientación y aprobación del SCRS.

FlagName	SpeciesGrp	Species	GearGrp	FleetCode	decade/year			Remarks
					2010 2018	2019	2020 2024	
Liberia	1-Tuna (major sp.)	ALB	GN	LBR	3			Requires a SCRS document (large reduction in BUM and SWO). To be dicussed in 2025 - <b>PENDING</b>
		BET	GN	LBR	1	3		
		BUM	GN	LBR	1	2		
		SAI	GN	LBR	11	50		
		SKJ	GN	LBR	29	21		
		SWO	GN	LBR	3	7		
		WHM	GN	LBR	1			
	2-Tuna (small)	YFT	GN	LBR	1	6		
		FRI	GN	LBR		12		
		BLT	GN	LBR	0			
	4-Sharks (major)	LTA	GN	LBR	2	70		
		BSH	GN	LBR	7	10		
	5-Sharks (other)	POR	GN	LBR	1			
		BTH	GN	LBR	0			
		FAL	GN	LBR	12	25		
LMA		GN	LBR	19				
SPK		GN	LBR	1				
6-Other Species	DOL	GN	LBR	4				
Gibraltar	1-Tuna (major sp.)	BFT	RR	GIB		25	For next year (maybe incomplete) - PENDING	





Table 17. Summary of Task 2 catch & effort historical series revised by ICCAT CPCs during the Reporting Period (by flag, gear, time-area stratification and year). Information already in the ICCAT-DB system.

Tableau 17. Résumé des séries historiques de prise et effort de la tâche 2 révisées par les CPC de l'ICCAT pendant la période de déclaration (par pavillon, engin, stratification spatio-temporelle et année). Informations déjà saisies dans le système ICCAT-DB.

Tabla 17. Resumen de las series históricas de captura y esfuerzo de Tarea 2 revisadas por la CPC de ICCAT durante el periodo de comunicación (por pabellón, arte, estratificación espacio-temporal y año). Información ya introducida en el sistema ICCAT-DB.

Flag	GearCode	FleetCode	TStrata	GeoStrata	ProductTypeCode	decade/year							Remarks	
						2010	2013	2014	2015	2016	2017	2018		2019
Guatemala	PS	GTM-GT-ETRO	mm	1x1	LW	1	1							Data revision requested by the Commission (Rec. 2022-01 para's 31 & 39) - T2CE ETRO fisheries (PS & BB) datasets with Effort in " <b>Number of sets</b> " -Details presented to PA1 and SG-TRO in 2023 intersessional meetings (PA1-504_REV/2022) - <b>ADOPTED</b>
Maroc	HAND	MAR	mm	1x1	LW	1	1	1	1	1	1	1	1	Revision to include additional species (BLT, BON, etc.) in the datasets - <b>ADOPTED</b>



Table 19. Bluefin catch report summary (t) for the eastern (BFT-E) and western Atlantic (BFT-W) stocks, registered in the EBCD system between 2022 and 2024 (as of 2024-10-11).

Tableau 19. Résumé du rapport des captures de thon rouge (t) pour les stocks de l'Atlantique Est (BFT-E) et Ouest (BFT-W), enregistrées dans le système EBCD entre 2022 et 2024 (au 2024-10-11).

Tabla 19. Resumen de informes de capturas de atún rojo (t) para los stocks del Atlántico oriental (BFT-E) y occidental (BFT-W), registradas en el sistema eBCD entre 2022 y 2024 (a 2024-10-11).

Fishing year	Catch Year	Month	Stock / Fishing CPC																					
			BFT-E stock														BFT-W stock							
			ALBANIA	ALGÉRIE	CHINA REP.	EGYPT	EUROPEAN UNION	ICELAND	JAPAN	KOREA REP.	LIBYA	MAROC	NORWAY	SYRIA	TUNISIE	TURKEY	UNITED KINGDOM	TOTAL	CANADA	JAPAN	MEXICO	UNITED KINGDOM (O.Territories)	UNITED STATES	TOTAL
2022	2022	1					33								0	34			0	0	43	43		
2022	2022	2					296									296			0		63	63		
2022	2022	3					329							0		330			15		48	64		
2022	2022	4					704							0		704			40		19	59		
2022	2022	5					7426			2159		923	1000			11508					7	7		
2022	2022	6	168	1650		67	7898		2226	1212		79	1729	1290		16321	4				84	88		
2022	2022	7					870			3				0		874	12				213	225		
2022	2022	8					419			44	2			2		468	71				82	152		
2022	2022	9				0	265			103	106			1	0	504	95				211	306		
2022	2022	10			16		340			281	149			1	0	826	192				161	353		
2022	2022	11			56		182			1867	40			0	2	2148	79					79		
2022	2022	12					146			720				0	0	866	8	657	0		45	711		
<b>2022 Total</b>			<b>168</b>	<b>1650</b>	<b>72</b>	<b>67</b>	<b>18910</b>	<b>0</b>	<b>2867</b>	<b>217</b>	<b>2226</b>	<b>3559</b>	<b>111</b>	<b>79</b>	<b>2652</b>	<b>2295</b>	<b>2</b>	<b>34877</b>	<b>460</b>	<b>657</b>	<b>56</b>	<b>0</b>	<b>976</b>	<b>2150</b>
2023	2023	1				0	47						0			47		46	0	0	51	98		
2023	2023	2					119									119			2		47	49		
2023	2023	3					486				0					486			10		24	34		
2023	2023	4					1011			142				0		1153			11		13	24		
2023	2023	5	143				13121			1976		536	1500			17276	2		4		7	12		
2023	2023	6	121	1847			4254		2530	1067		2348	1771			13937	19				82	100		
2023	2023	7		148			585			259			101	4	0	1097	24				157	180		
2023	2023	8					357			127	8			4	2	499	94				146	240		
2023	2023	9				1	290			84	19			1	1	465	106				229	335		
2023	2023	10			78		204		534	155	8	74		0	8	1062	135				101	236		
2023	2023	11			37		161		2549	12		16		1	8	2784	92	244		1	4	341		
2023	2023	12					146							3	3	149	6	333	0		67	407		
<b>2023 Total</b>			<b>264</b>	<b>1995</b>	<b>116</b>	<b>0</b>	<b>20780</b>	<b>1</b>	<b>3083</b>	<b>236</b>	<b>2530</b>	<b>3663</b>	<b>117</b>	<b>0</b>	<b>2986</b>	<b>3282</b>	<b>22</b>	<b>39074</b>	<b>478</b>	<b>624</b>	<b>28</b>	<b>1</b>	<b>926</b>	<b>2057</b>
2024	2024	1			0	0	68		0	0			0	0	0	69		0	2	0	70	72		
2024	2024	2					183							0		183					39	39		
2024	2024	3				1	387									388			4		16	20		
2024	2024	4					979							0		979			4		25	29		
2024	2024	5	182				7321		395	2357				852		11106	0		4		18	22		
2024	2024	6	81	2011			9752		1878	889		2934	2336			19881	5		1		107	113		
2024	2024	7					938			216			64	1	1	1221	44				10	53		
2024	2024	8					382			36	2			3	7	430	87				18	105		
2024	2024	9					316			71	52			5	9	453	126				49	175		
2024	2024	10					81			49	71			2	6	208	46				16	62		
<b>2024 Total</b>			<b>263</b>	<b>2011</b>	<b>0</b>	<b>0</b>	<b>20408</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2273</b>	<b>3617</b>	<b>124</b>	<b>0</b>	<b>2998</b>	<b>3201</b>	<b>23</b>	<b>34919</b>	<b>308</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>368</b>	<b>690</b>



Table 21. Reported catch (t) of BFT (Eastern and Western stocks) according to the Monthly Catch Reports (2024 is incomplete) as of 2024-10-11.  
 Tableau 21. Prises déclarées (t) de thon rouge (stocks de l'Est et de l'Ouest) d'après les rapports mensuels de capture (l'année 2024 est incomplète) au 2024-10-11.  
 Tabla 21. Captura declarada (t) de atún rojo (stocks oriental y occidental) según los informes de captura mensuales (2024 está incompleto) a 11 de octubre de 2024.

Catch (t)			Eastern Stock Unit														Grand Total		
Season Year	Fishing Year	Month	sv	Algerie	China PR	Egypt	European Union	Great Britain	Iceland	Japan	Korea Rep	Libya	Maroc	Norway	Syria	Tunisie		Türkiye	
2022	2022	1					33	0										33	
		2					297											297	
		3					326												326
		4					700												700
		5			0		0	6985					0	2047		0	935	1002	10969
		6	177	310			67	7830					1807	1190		79	652	1289	13402
		7						800						3					803
		8						345						44		2			392
		9						196	0	0	30	28		103	105				462
		10					57		199	0		913	149		37	2			1358
		11					15		96	1		765	39			0			915
		12							72	0		55						7	
<b>2022 Total</b>			<b>177</b>	<b>310</b>	<b>72</b>	<b>67</b>	<b>17879</b>	<b>2</b>	<b>0</b>	<b>1763</b>	<b>216</b>	<b>1807</b>	<b>3425</b>	<b>109</b>	<b>79</b>	<b>1593</b>	<b>2291</b>	<b>29791</b>	
2023	2023	1	23				40											63	
		2					115	0											115
		3	98				487												584
		4					1004							142					1146
		5	143				13441							2046			633	1352	17616
		6					4130						1924	986			2310	1662	12823
		7					557	0						259			47		994
		8					291	2						127	8				427
		9					220	1	0			69		84	19				393
		10					76	150	7		2025	155		8	74				2495
		11					22	115	8		518	12			16				690
		12						68	3										71
<b>2023 Total</b>			<b>264</b>	<b>1941</b>	<b>97</b>		<b>20617</b>	<b>21</b>	<b>0</b>	<b>2544</b>	<b>236</b>	<b>1924</b>	<b>3652</b>	<b>117</b>		<b>2990</b>	<b>3015</b>	<b>37417</b>	
2024	2024	1					66	0										66	
		2					181											181	
		3					372			1								373	
		4					966	0											966
		5	179				7207							2343				852	10580
		6	84	1216			9741						2021	892			2482	2336	18772
		7					894	1						216					1111
		8					254	8						36	2				299
		9					149	10			79	39		70	52				398
		10					15	3							68				86
<b>2024 Total</b>			<b>263</b>	<b>1216</b>			<b>19844</b>	<b>22</b>	<b>1</b>	<b>79</b>	<b>39</b>	<b>2021</b>	<b>3557</b>	<b>122</b>		<b>2482</b>	<b>3188</b>	<b>32833</b>	

Catch (t)			Western Stock Unit						Grand Total	
Season Year	Fishing Year	Month	Canada	FR-St Pierre et Miquelon	Japan	Mexico	UK-Bermuda	USA		
2022	2022	1		0		0	0	0	44	45
		2		0		0	0	0	66	67
		3		0		15	0	0	49	64
		4		0		43	0	0	22	65
		5		0		0	0	0	10	10
		6	5	0		0	0	0	88	93
		7	5	0		0	0	0	262	266
		8	101	0		0	0	0	162	263
		9	132	0	0	0	0	0	289	421
		10	241	0	21	0	0	0	259	521
		11	95	0	123	0	0	0	16	235
		12	10	0	504	0	0	0	57	571
<b>2022 Total</b>			<b>588</b>	<b>0</b>	<b>648</b>	<b>59</b>	<b>0</b>	<b>1326</b>	<b>2621</b>	
2023	2023	1				0	0	52	53	
		2				1	0	53	54	
		3				6	0	25	31	
		4				22	0	34	56	
		5	2			5	0	13	19	
		6	21			0	0	105	126	
		7	46			0	0	278	324	
		8	132			0	0	214	346	
		9	153			0	0	314	467	
		10	180		36	0	0	140	356	
		11	105		351	0	1	32	488	
		12	8		222	0	0	78	308	
<b>2023 Total</b>			<b>646</b>	<b>0</b>	<b>609</b>	<b>36</b>	<b>1</b>	<b>1338</b>	<b>2629</b>	
2024	2024	1				1	0	73	74	
		2				2	0	42	44	
		3				3	0	18	22	
		4				7	0	37	44	
		5				5	0	24	29	
		6	9			1	0	180	190	
		7	14			0	0	197	211	
		8	23			0	0	278	302	
		9				0	0		0	
<b>2024 Total</b>			<b>46</b>			<b>19</b>	<b>0</b>	<b>852</b>	<b>916</b>	

Table 22. Quantity (t) of BFT caged by fishing and farming flag CPCs, between 2021 and 2024, as reported under Rec. 08-05 as of 2024-10-11.

Tableau 22. Volumes (t) de thon rouge mis en cages, par CPC de pavillon de pêche ou CPC de ferme, entre 2021 et 2024, tels que déclarés en vertu de la Rec. 08-05 au 2024-10-11.

Tabla 22. Cantidades (t) de atún rojo introducido en jaulas entre 2021 y 2024 por CPC del pabellón pesquero y CPC de la granja tal y como se declararon con arreglo a la Rec. 08-05 a 11 de octubre de 2024

Caging Wgt (t)		Farming Flag								Grand Total
Farming Year	Fishing Flag	Albania	EU-Croatia	EU-España	EU-Malta	EU-Portugal	Maroc	Tunisie	Türkiye	
2022	Algerie				1144			334	169	1648
	Egypt								67	67
	EU-Croatia		604							604
	EU-España			3659						3659
	EU-France			2185	1728					3913
	EU-Italy			769	2429					3198
	EU-Malta		86							86
	Libya				1784				447	2231
	Maroc								88	88
	Syria								79	79
	Tunisie					1302		1554		2856
Türkiye					157			2375	2532	
Unclassified flag				144	196	302	2704			3345
<b>2022 Total</b>			<b>690</b>	<b>6756</b>	<b>8740</b>	<b>302</b>	<b>2704</b>	<b>1889</b>	<b>3225</b>	<b>24306</b>
2023	Albania	264							42	305
	Algerie				1804				189	1993
	EU-Croatia		870							870
	EU-España			2816						2816
	EU-France			3697	2216					5913
	EU-Italy			574	2726					3300
	EU-Malta				412					412
	Libya				2020				506	2526
	Maroc				197				157	354
	Tunisie				1622			1630		3252
	Türkiye							301	3013	3315
Unclassified flag				134	173	277	2612			3195
<b>2023 Total</b>		<b>264</b>	<b>870</b>	<b>7221</b>	<b>11170</b>	<b>277</b>	<b>2612</b>	<b>1931</b>	<b>3907</b>	<b>28251</b>
2024	Albania	263								263
	Algerie								239	239
	EU-España			4225						4225
	EU-France			2759						2759
	EU-Italy			844						844
	Libya								337	337
	Maroc								474	474
	Tunisie							1146		1146
	Türkiye								3131	3131
Unclassified flag						309	3334			3643
<b>2024 Total</b>		<b>263</b>		<b>7828</b>		<b>309</b>	<b>3334</b>	<b>1146</b>	<b>4181</b>	<b>17061</b>



Table 23. Bi-annual Statistical Documents (SD) and Re-export Certificates (RC) reported to ICCAT, by species, during the Reporting Period.

Tableau 23. Documents statistiques (SD) et Certificats de réexportation (RC) semestriels déclarés à l'ICCAT, par espèce, pendant la période de déclaration.

Tabla 23. Documentos estadísticos (DE) y Certificados de reexportación (CR) semestrales comunicados a ICCAT, por especies, durante el periodo de comunicación.

Reporting CPC	Year	Semester	Date reported	BET		SWO		* Other
				SD	RC	SD	RC	
Canada	2023	1	2024-04-10	√		√		
		2	2024-04-05			√		
	2024	1	2024-09-13			√		
China PR	2023	2	2024-04-27	√	√	√	√	
	2024	1	2024-09-14	√	√	√	√	
Chinese Taipei	2023	2	2024-03-25	√	√	√		
	2024	1	2024-07-26	√	√	√		
Côte d'Ivoire	2023	2	2024-03-13	√				
	2024	1	2024-10-02	√				
El Salvador	2023	2	2024-01-25	√				
	2024	1	2024-08-08	√				
European Union	2023	1	2024-04-03	√	√	√	√	
		2	2024-04-17	√	√	√		
	2024	1	2024-09-13	√	√	√	√	
Great Britain	2023	1	2024-04-05	√		√	√	
		2	2024-04-04	√		√	√	
	2024	1	2024-09-11	√	√	√		
Japan	2023	2	2024-04-23	√	√	√	√	
	2024	1	2024-09-13	√	√	√	√	
Korea Rep	2023	2	2024-02-16	√	√	√	√	
Maroc	2023	2	2024-03-29	√				
	2024	1	2024-08-30	√				
Mexico	2023	2	2024-04-02	√		√		
	2024	1	2024-09-29	√		√		
Norway	2023	2	2024-03-22			√		
	2024	1	2024-09-13	√	√	√		
Trinidad and Tobago	2023	1	2023-11-17	√		√		
Türkiye	2023	2	2024-04-03	√				
	2024	1	2024-09-02	√				
USA	2023	2	2024-09-14	√		√		√
	2024	1	2024-09-14	√		√		√

\* Cannot be classified into SD or RC documents types (includes all 2 species).







Table 27. Volumes published during the Reporting Period, within the ICCAT series of periodic publications.

Tableau 27. Volumes publiés pendant la période de déclaration, dans les séries de publications périodiques de l'ICCAT.

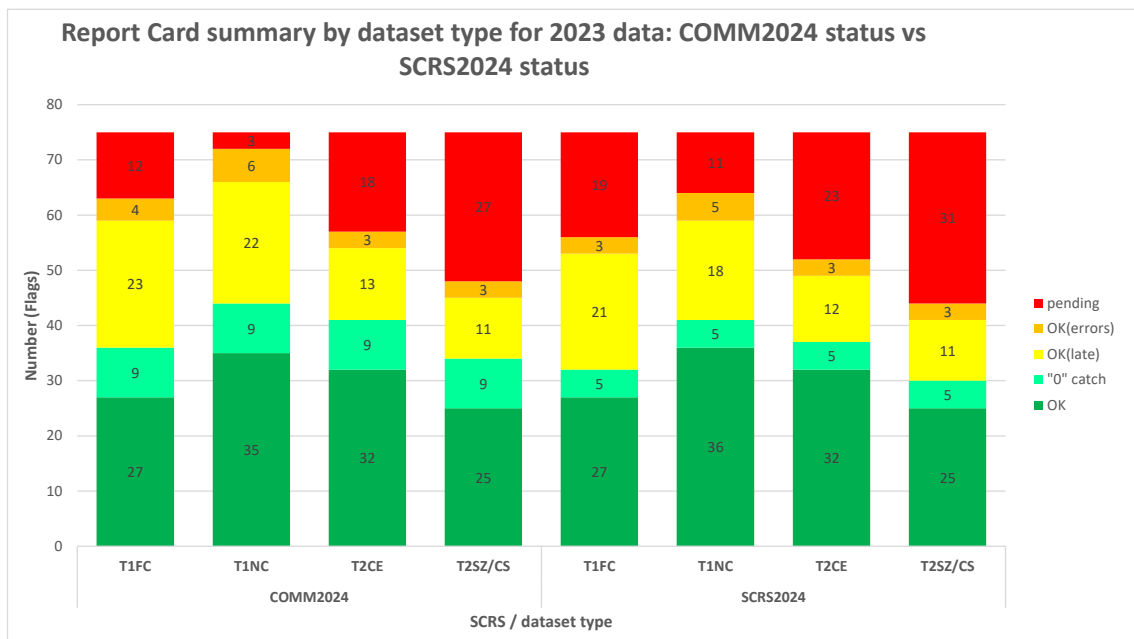
Tabla 27. Volúmenes publicados durante el periodo de comunicación dentro de las series de publicaciones periódicas de ICCAT.

Publication			Period	Format			Content
Name	Vol. / Chapter #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	80		2023			√	Intersessional meetings reports and documents presented in these meetings / Rapports des réunions intersessions et documents soumis à ces réunions / Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Collect. Vol. Sci. Pap.	81		2024			√	Intersessional meetings reports and documents presented in these meetings / Rapports des réunions intersessions et documents soumis à ces réunions / Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones (volumes/volumes/tomos 1-8)
Biennial Report / Rapport biennal / Informe Bienal	2022-2023 (Part II)	1	2023			√	Report of the 23th Special Meeting of the Commission / Rapport de la 23e réunion extraordinaire de la Commission / Informe de la 23ª Reunión extraordinaria de la Comisión
		2	2023			√	SCRS Report / Rapport du SCRS / Informe del SCRS
		3	2023			√	Annual Reports / Rapports annuels / Informes anuales
		4	2023			√	Secretariat reports (research and statistics, administrative, financial, to the COC and PWG) / Rapports du secrétariat (recherche et statistiques, administratif, financier, au COC et au PWG) / Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al GTP)
Statistical bulletin / Boletín estadístico / Bulletin statistique	49		1950-2022			√	ICCAT Statistics (published in February 2024) / Statistiques de l'ICCAT (publiées en février 2024) / Estadísticas ICCAT (publicado en febrero del 2024)
Newsletter / Bulletin d'information / Boletín informativo	38		Feb. 2024			√	News / Nouvelles / Noticias
	39		Sep. 2024			√	News / Nouvelles / Noticias

Figure 1. Summary of ICCAT CPC reporting status on Task 1/2 for 2023 data (covers all the information sent during the Reporting Period).

Figure 1. Résumé de la situation de déclaration par les CPC de l'ICCAT des données de 2023 de la tâche 1/2 (couvre toute l'information envoyée pendant la période de déclaration).

Figura 1. Resumen del estado de comunicación de las CPC de ICCAT sobre Tarea 1/2 para los datos de 2023 (cubre toda la información enviada durante el periodo de comunicación).



		Meeting year / Dataset type							
		COMM2024				SCRS2024			
Values	Rep. status	T1FC	T1NC	T2CE	T2SZ/CS	T1FC	T1NC	T2CE	T2SZ/CS
number	OK	27	35	32	25	27	36	32	25
	"0" catch	9	9	9	9	5	5	5	5
	OK(late)	23	22	13	11	21	18	12	11
	OK(errors)	4	6	3	3	3	5	3	3
	pending	12	3	18	27	19	11	23	31
	<b>TOTAL</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>	<b>75</b>
%	OK	36%	47%	43%	33%	36%	48%	43%	33%
	"0" catch	12%	12%	12%	12%	7%	7%	7%	7%
	OK(late)	31%	29%	17%	15%	28%	24%	16%	15%
	OK(errors)	5%	8%	4%	4%	4%	7%	4%	4%
	pending	16%	4%	24%	36%	25%	15%	31%	41%





## APPENDIX 1 / Appendice 1 / Apéndice 1

**Appendix 1.** Standard SCRS catalogues on statistics (Task 1 and Task 2) of the 13 major ICCAT species (10 tuna & tuna like species and 3 shark species) by stock, major fishery (flag/gear combinations ranked by order of importance) and year. Only the most important fisheries (representing ±97.5% of Task-I total catch) are shown. For each data series, Task I (DSet= "t1", in t) is visualised against its equivalent Task II availability (DSet= "t2") scheme. The Task-II colour scheme, has a concatenation of characters ("a"= T2CE exists; "b"= T2SZ exists; "c"= T2CS exists) that represents the Task-II data availability in the ICCAT-DB. See the legend for the colour scheme pattern definitions.

**Appendice 1.** Catalogues standard du SCRS sur les statistiques (Tâche 1 et Tâche 2) des 13 espèces principales de l'ICCAT (10 espèces de thonidés et espèces apparentées et 3 espèces de requins) par stock, pêche principale (combinaisons pavillon-engin classées par ordre d'importance) et année. Seules les pêcheries les plus importantes (représentant ±97,5% de la prise de Tâche I) sont présentées. Chaque série de données de la Tâche I (DSet= "t1", en tonnes) est représentée par rapport au schéma de disponibilité équivalent de la Tâche II (DSet= "t2"). Le schéma de couleurs de Tâche II présente une concaténation de caractères ("a"= T2CE existe; "b"= T2SZ existe; "c"= T2CS existe) qui représente la disponibilité des données de Tâche II dans la base de données de l'ICCAT. Veuillez vous reporter aux légendes pour les définitions du schéma de couleurs.

**Apéndice 1.** Catálogos estándar del SCRS sobre estadísticas (Tarea 1 y Tarea 2) de las 13 especies principales de ICCAT (10 especies de túnidos y especies afines y 3 especies de tiburones) por stock, pesquería principal (combinaciones arte/pabellón clasificadas por orden de importancia) y año. Solo se muestran las pesquerías más importantes (que representan ±97,5% de la captura total de Tarea I). Cada serie de datos de Tarea I (DSet= "t1", en t) se visualiza con respecto a su esquema equivalente de disponibilidad de Tarea II (DSet= "t2"). En el esquema de colores de Tarea II, se incluye una concatenación de caracteres ("a"= T2CE existe; "b"= T2SZ existe; "c"= T2CS existe) que representa la disponibilidad de datos de Tarea II en la base de datos de ICCAT. Véase la leyenda para las definiciones del patrón del esquema de colores.

Table #	Fishery
1	<a href="#">ALB-N stock</a>
2	<a href="#">ALB-S stock</a>
3	<a href="#">ALB-M stock</a>
4	<a href="#">BFT-E stock (ATE region)</a>
5	<a href="#">BFT-E stock (MED region)</a>
6	<a href="#">BFT-W stock</a>
7	<a href="#">BET-A stock (AT + MD)</a>
8	<a href="#">YFT-A stock (AT + MD)</a>
9	<a href="#">SKJ-E stock</a>
10	<a href="#">SKJ-W stock</a>
11	<a href="#">SWO-N stock</a>
12	<a href="#">SWO-S stock</a>
13	<a href="#">SWO-M stock</a>
14	<a href="#">BUM-A stock (AT + MD)</a>
15	<a href="#">WHM-A stock (AT + MD)</a>
16	<a href="#">SAI-E stock</a>
17	<a href="#">SAI-W stock</a>
18	<a href="#">SPF-E stock</a>
19	<a href="#">SPF-W stock</a>
20	<a href="#">BSH-N region</a>
21	<a href="#">BSH-S region</a>
22	<a href="#">POR-NE region</a>
23	<a href="#">POR-NW region</a>
24	<a href="#">POR-SE region</a>
25	<a href="#">POR-SW region</a>
26	<a href="#">SMA-N region</a>
27	<a href="#">SMA-S region</a>

### LEGEND and color schemes used to show Task II (t2) availability

As of: 2024-10-15

Years covered: 1994-2023

character	represents
a	T2CE
b	T2SZ
c	T2CS (*)

(\*) Only 6 species require T2CS data: ALB, BFT, BET, YFT, SKJ, SWO

color scheme	
Concatenated string	represents
-1	no T2 data
a	t2ce only
b	t2sz only
c	t2cs only
bc	t2sz + t2cs
ab	t2ce + t2sz
ac	t2ce + t2cs
abc	all
	no T1 data



Table 2. ALB-S stock

Score		6.37		T1 Total																				Rank		% %cum															
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023						
ALB	ATS	NCC	Chinese Taipei	LL	t1	22573	18351	18956	18165	16106	17377	17221	15833	17321	17351	13288	10730	12293	13146	9966	8678	10975	13032	12813	8519	6675	7157	8907	9090	9227	9626	9851	10519	8894	10895	1	54.71	54.71			
ALB	ATS	NCC	Chinese Taipei	LL	t2		ab	ab	ab	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	1				
ALB	ATS	CP	South Africa	BB	t1	6842	5204	5425	6581	8401	5010	3463	6715	6057	3323	4153	2856	3365	2024	2334	2967	2446	2029	3466	3395	3620	3898	2001	1640	2353	2190	3779	3490	5412	2312	2	16.65	71.36			
ALB	ATS	CP	South Africa	BB	t2		ab	ab	ab	ab	b	ab	abc	abc	abc	abc	abc	ab	ab	ab	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	b	2				
ALB	ATS	CP	Namibia	BB	t1	915	950	982	1192	1422	1072	2240	2969	2858	2432	3079	2031	2426	1058	1856	4936	1263	3711	2275	838	1016	1008	893	205	874	206	213	940	1597	917	3	6.90	78.26			
ALB	ATS	CP	Namibia	BB	t2	abc	abc	-1	-1	-1	abc	c	ab	ac	-1	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3				
ALB	ATS	CP	Japan	LL	t1	651	389	435	424	418	601	554	341	231	322	509	312	316	238	1370	921	973	1194	2903	3106	1131	1752	1096	1189	2985	1543	912	1649	1780	1968	4	4.60	82.86			
ALB	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	4				
ALB	ATS	CP	Brazil	LL	t1	835	723	807	589	3013	1478	3760	6240	2865	1844	285	359	267	222	233	150	207	920	824	778	326	431	494	383	259	284	211	497	342	222	5	4.26	87.12			
ALB	ATS	CP	Brazil	LL	t2	ab	ab	a	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	ab	ab	5				
ALB	ATS	CP	Namibia	LL	t1	196			7	7	90	178	450	105	721	250	313	2674	138	102	0	57	80	145	10	41	54	101	8	14	55	1953	7225	4722	4856	6	3.50	90.62			
ALB	ATS	CP	Namibia	LL	t2	a			-1	-1	a	-1	ab	ac	-1	ab	ab	ab	ab	a	ab	ab	abc	a	ab	a	a	a	a	abc	abc	abc	abc	abc	abc	6					
ALB	ATS	CP	EU-España	LL	t1	149	202	180	190	20	871	282	573	829	183	81	261	358	758	908	997	266	250	235	369	256	354	195	259	301	186	29	37	32	30	7	1.37	91.99			
ALB	ATS	CP	EU-España	LL	t2	ab	ab	ab	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7				
ALB	ATS	CP	South Africa	RR	t1	89	10	209	127		73	58	377	323	82	201	288	324	1696	1028	1855	1529	1268														8	1.36	93.35		
ALB	ATS	CP	South Africa	RR	t2	a	-1	a	a		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8				
ALB	ATS	CP	Brazil	BB	t1	392	200	12	63	405	394	627	619	363	803	235	197	85	293	156	18	34	198	1190	979	129	60	55	0	1	457	306	4	5	120	9	1.20	94.55			
ALB	ATS	CP	Brazil	BB	t2	-1	a	a	a	a	a	-1	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	9				
ALB	ATS	CP	St Vincent and Grenadines	LL	t1						2116	4292	44																								10	1.10	95.65		
ALB	ATS	CP	St Vincent and Grenadines	LL	t2						-1	-1	a																								10				
ALB	ATS	CP	EU-Portugal	BB	t1	1185	655	494	256	124	232	486	40	433	415	9																					11	0.62	96.27		
ALB	ATS	CP	EU-Portugal	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a																					11			
ALB	ATS	CP	South Africa	LL	t1						11	18	89	144	127	64	52	55	46	78	107	125	83	82	86	115	99	132	65	145	220	265	247	333	175	358	12	0.47	96.74		
ALB	ATS	CP	South Africa	LL	t2						a	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	12			
ALB	ATS	CP	Vanuatu	LL	t1																																	13	0.40	97.14	
ALB	ATS	NCO	Vanuatu	LL	t2																																	13			
ALB	ATS	CP	Belize	LL	t1																																	14	0.34	97.47	
ALB	ATS	CP	Belize	LL	t2	a	a	a																														14			
ALB	ATS	CP	EU-France	PS	t1	130	83	191	39	40	13	23	11	18	63	16	443	347	12	50	43	109	50	151	40	41	54	64	79	16	3	10	21	16	3	15	0.31	97.78			
ALB	ATS	CP	EU-France	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	15		







Table 6. BFT-W stock

Score		8.62		T1 Total	2113	2448	2512	2334	2657	2772	2775	2784	3319	2305	2125	1756	1811	1638	2000	1980	1857	2007	1754	1482	1627	1842	1901	1850	2069	2306	2207	2310	2700	2566	Rank	%	%cum			
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023					
BFT	ATW	CP	USA	RR	t1	462	844	840	931	777	760	683	1244	1523	991	716	425	376	634	658	860	682	592	568	365	478	694	867	795	880	980	1041	1038	1114	1080	1	36.32	36.32		
BFT	ATW	CP	USA	RR	t2	abc	abc	bc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	1		
BFT	ATW	CP	Japan	LL	t1	427	387	436	330	691	365	492	506	575	57	470	265	376	277	492	162	353	578	289	317	302	347	345	346	407	406	408	410	658	611	2	18.36	54.68		
BFT	ATW	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2		
BFT	ATW	CP	Canada	RR	t1	71	195	155	245	303	348	433	402	508	407	421	497	629	389	475	390	324	295	347	325	331	389	323	344	382	470	440	407	406	381	3	16.77	71.45		
BFT	ATW	CP	Canada	RR	t2	ab	ab	ab	ab	ab	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	3			
BFT	ATW	CP	USA	LL	t1	185	211	235	191	156	222	242	130	224	299	275	211	205	173	233	335	239	241	295	208	222	89	105	115	103	92	58	104	163	152	4	8.68	80.13		
BFT	ATW	CP	USA	LL	t2	abc	abc	abc	abc	abc	abc	abc	ab	ab	abc	ab	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	4		
BFT	ATW	CP	USA	PS	t1	301	249	245	250	249	248	275	196	208	265	32	178	4	28							2	43	42	39								5	4.35	84.48	
BFT	ATW	CP	USA	PS	t2	abc	abc	abc	abc	abc	abc	abc	ab	ab	b	b	bc	bc							bc	bc	bc	bc									5			
BFT	ATW	CP	USA	HP	t1	68	77	96	98	133	116	184	102	55	88	41	32	30	23	30	66	29	70	52	45	68	77	53	82	44	118	85	64	84	80	6	3.33	87.81		
BFT	ATW	CP	USA	HP	t2	bc	bc	bc	bc	bc	bc	bc	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	b	6			
BFT	ATW	CP	Canada	TL	t1	203	262	298	138	172	125	81	79	39	42	49	44	35	23	24	37	40	30	34	52	40	35	15	23	3	12	5	4	6	2	7	2.96	90.78		
BFT	ATW	CP	Canada	TL	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	bc	7		
BFT	ATW	CP	Canada	LL	t1	5	4	22	12	32	31	47	20	53	28	43	36	48	58	30	64	89	112	65	67	61	74	85	74	134	143	89	107	85	110	8	2.78	93.56		
BFT	ATW	CP	Canada	LL	t2	ab	ab	ab	ab	ab	abc	abc	bc	abc	abc	abc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	8			
BFT	ATW	CP	Canada	HP	t1	34	43	32	55	36	38	18	20	13	10	7	14	20	17	24	18	37	30	31	25	11	26	25	17	30	38	44	74	3	72	9	1.31	94.87		
BFT	ATW	CP	Canada	HP	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	a	9		
BFT	ATW	CP	Canada	TP	t1	79	72	90	59	68	44	16	16	28	84	32	8	3	4	23	23	39	26	17	11	20	6	10	13	3	4	4	4	4	10	1.22	96.09			
BFT	ATW	CP	Canada	TP	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	10			
BFT	ATW	CP	Mexico	LL	t1	4	23	19	2	8	14	29	10	12	22	9	10	14	7	7	10	14	14	52	23	51	53	55	34	80	39	28	63	61	39	11	1.22	97.31		
BFT	ATW	CP	Mexico	LL	t2	ab	ab	ab	ab	ab	ab	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	11			
BFT	ATW	NCO	NEI (Flag related)	LL	t1						429	270	49																							12	1.14	98.45		
BFT	ATW	NCO	NEI (Flag related)	LL	t2						9	9	9																								12			













Table 12. SWO-S stock

Score 7.18				T1 Total	18958	21931	18289	18542	14027	15502	15728	15128	14104	12634	13082	13163	14196	15629	12370	12668	12596	11205	10686	9204	9970	10345	10611	10537	10379	10091	8939	9488	8708	8212	Rank	%	%cum			
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023					
SWO	ATS	CP	EU-España	LL	t1	7937	11290	9622	8461	5832	5758	6388	5789	5741	4527	5483	5402	5300	5283	4073	5183	5801	4700	4852	4184	4113	5059	4992	4654	4404	4224	4442	4470	3592	4092	1	42.81	42.81		
SWO	ATS	CP	EU-España	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc					
SWO	ATS	CP	Brazil	LL	t1	1571	1970	1892	4100	3844	4721	4579	4075	2903	2917	2984	3780	4430	4243	3413	3386	2926	2984	2831	2381	2892	2594	2935	2406	2792	2859	2105	2823	2196	1719	2	23.58	66.39		
SWO	ATS	CP	Brazil	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	ab	ab	a					
SWO	ATS	CP	Japan	LL	t1	4699	3619	2197	1494	1186	775	790	685	833	924	686	480	1090	2155	1600	1340	1314	1233	1162	684	976	659	637	915	640	648	552	480	631	490	3	9.19	75.59		
SWO	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	a	a	a					
SWO	ATS	NCC	Chinese Taipei	LL	t1	2829	2876	2873	2562	1147	1168	1303	1149	1164	1254	745	744	377	671	727	612	410	428	496	582	451	554	480	527	472	395	353	532	420	379	4	7.41	83.00		
SWO	ATS	NCC	Chinese Taipei	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc					
SWO	ATS	CP	Namibia	LL	t1	22					374	452	607	504	187	549	832	1118	1038	518	25	408	366	22	129	395	225	466	600	881	811	774	623	1100	664	5	3.54	86.54		
SWO	ATS	CP	Namibia	LL	t2	a					a	-1	ab	a	-1	a	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	abc	abc	abc	abc	abc	a						
SWO	ATS	CP	Uruguay	LL	t1	165	499	644	760	889	650	713	789	768	850	1105	843	620	464	370	501	222	179	40	103											6	2.89	89.43		
SWO	ATS	CP	Uruguay	LL	t2	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab				
SWO	ATS	CP	EU-Portugal	LL	t1	380	389	441	384	381	392	393	380	354	345	493	440	428	271	367	232	263	184	125	252	236	250	466	369	323	335	224	210	360	7	2.50	91.92			
SWO	ATS	CP	EU-Portugal	LL	t2	a	a	a	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a					
SWO	ATS	CP	China PR	LL	t1					29	534	344	200	423	353	278	91	300	473	470	291	296	248	316	196	206	328	222	302	355	211	89	37	188	109	8	1.78	93.70		
SWO	ATS	CP	China PR	LL	t2					a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab					
SWO	ATS	CP	South Africa	LL	t1		1			240	143	327	547	649	293	295	199	186	207	142	170	145	97	50	171	152	218	164	189	189	251	149	179	161	291	9	1.50	95.20		
SWO	ATS	CP	South Africa	LL	t2		-1			ab	ab	ab	ac	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b			
SWO	ATS	CP	Ghana	GN	t1	51	103	140	44	106	121	117	531	372	734	343	55	32	65	177	132	116	60	54	37	26	56	36	55	6	32	31	19	16	21	10	0.95	96.16		
SWO	ATS	CP	Ghana	GN	t2	-1	-1	ab	b	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1				
SWO	ATS	CP	S Tomé e Principe	TR	t1	190	178	166	148	135	129	120	120	120	120	126	147	138	138	172	188	193	60	84	60	94	145	77	65								11	0.80	96.96	
SWO	ATS	CP	S Tomé e Principe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
SWO	ATS	CP	Belize	LL	t1		1				17	8										120	32	111	121	207	197	136	45	111	176	166	115	55	2	2	2	12	0.42	97.38
SWO	ATS	CP	Belize	LL	t2		a				a	a									a	a	ab	ab	ab	ab	a	ab	a	ab	ab	ab	ab	ab	ab	ab				
SWO	ATS	CP	Senegal	LL	t1																77	97	137	78	117	162	178	143	97	90	112	65	116	38			13	0.39	97.77	
SWO	ATS	CP	Senegal	LL	t2																-1	-1	-1	a	a	a	a	a	a	-1	-1	-1	-1	-1						
SWO	ATS	CP	Korea Rep	LL	t1	164	164	7	18	7	5	10	0	2	24	70	36	94	176	223	10	147	70	65	47	53	5	19	11	18	9	15	6	6	5	14	0.38	98.15		
SWO	ATS	CP	Korea Rep	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	1	a	1	abc	abc	a	abc	ab	abc	ab	abc	abc	abc	a	ac				
SWO	ATS	CP	USA	LL	t1			172	417	170	185	144	43	200	21	16								0													15	0.35	98.51	
SWO	ATS	CP	USA	LL	t2	a	a	a	a	ab	abc	abc	abc	abc	abc	abc								bc			abc													













Table 18. SPF-E stock

			T1 Total	198	207	128	194	192	257	181	81	84	54	51	68	84	66	60	78	128	73	170	95	16	18	15	29	36	60	206	183	134	140								
Score	5.03																																								
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Rank	%	%cum			
SPF	ATE	CP	Japan	LL	t1	36	26	25	30	22	33	29	20	16	25	36	40	21	36	53	59	49	39	134	85	3	0	4	2	15	10	10	4	2	6	1	26.50	26.50			
SPF	ATE	CP	Japan	LL	t2	ab	ab	a	a	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	1					
SPF	ATE	NCC	Chinese Taipei	LL	t1	63	97	41	94	73	112	75	52	62	25	15	25	37	22	2	6	16	9	6	0	0	1	1	1	2	3	5	2	1	9	2	26.12	52.63			
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2				
SPF	ATE	CP	EU-España	LL	t1	5	1	1	1	9	31	17	9	6	5																						3	21.97	74.59		
SPF	ATE	CP	EU-España	LL	t2	ab	b	b	b	b	b	b	b	b	b																						3				
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	98	78	59	68	86	81	60																									4	16.14	90.73		
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1																										4			
SPF	ATE	CP	EU-Portugal	LL	t1																																5	8.27	99.00		
SPF	ATE	CP	EU-Portugal	LL	t2	24	8	2	6	25	9	20																										5			
SPF	ATE	CP	St Vincent and Grenadines	LL	t1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		6	0.33	99.33		
SPF	ATE	CP	St Vincent and Grenadines	LL	t2	0																																6			
SPF	ATE	CP	Senegal	LL	t1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		7	0.17	99.50		
SPF	ATE	CP	Senegal	LL	t2	6																																7			
SPF	ATE	CP	China PR	LL	t1																																	8	0.16	99.66	
SPF	ATE	CP	China PR	LL	t2																																		8		
SPF	ATE	CP	Korea Rep	LL	t1	1	1	3	1	2																													9	0.14	99.80
SPF	ATE	CP	Korea Rep	LL	t2	-1	-1	-1	a																														9		
SPF	ATE	NCO	NEI (BIL)	LL	t1																																		10	0.12	99.93
SPF	ATE	NCO	NEI (BIL)	LL	t2																																		10		
SPF	ATE	CP	South Africa	LL	t1																																		11	0.05	99.98
SPF	ATE	CP	South Africa	LL	t2																																		11		
SPF	ATE	CP	EU-Portugal	TP	t1																																		12	0.01	99.99
SPF	ATE	CP	EU-Portugal	TP	t2																																		12		
SPF	ATE	CP	EU-España	PS	t1																																		13	0.01	100.00
SPF	ATE	CP	EU-España	PS	t2																																		13		
SPF	ATE	CP	EU-France	PS	t1																																		14	0.00	100.00
SPF	ATE	CP	EU-France	PS	t2																																		14		
SPF	ATE	CP	EU-France	LL	t1																																		15	0.00	100.00
SPF	ATE	CP	EU-France	LL	t2																																		15		
SPF	ATE	CP	EU-France	GN	t1																																		16	0.00	100.00
SPF	ATE	CP	EU-France	GN	t2																																		16		





Table 21. BSH-S region

Score	T1 Total																						Rank	%	%cum												
5.75	2704	3108	4246	10145	9414	10828	12448	14044	13854	14966	15320	21046	21768	23487	23518	23607	27799	35898	26421	20672	26253	22498	25417	28555	34514	38508	33709	33392	31650	30594							
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
BSH	ATS	CP	EU-España	LL	t1				5272	5574	7173	6951	7743	5368	6626	7366	6410	8724	8942	9615	13099	13953	16978	14348	10473	11447	10133	10107	11486	13515	18497	14717	16778	14061	14388		
BSH	ATS	CP	EU-España	LL	t2				b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b		
BSH	ATS	CP	EU-Portugal	LL	t1		847	867	1336	876	1110	2134	2562	2324	1841	1863	3184	2751	4493	4866	5358	6338	6632	7642	2424	1646	1622	2420	5609	6663	8015	6753	7350	5524	6092	5504	
BSH	ATS	CP	EU-Portugal	LL	t2		-1	-1	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a		
BSH	ATS	CP	Namibia	LL	t1						0			2213	2316	1906	6616	3536	3419	1829	207	2351	2633	1176	1147	2471	2137	2775	1357	3290	3665	3950	3237	4694	4483		
BSH	ATS	CP	Namibia	LL	t2						-1			a	a	ab	ab	ab	ab	ab	ab	ab	a	ab	a	ab	a	ab	ab	ab	ab	ab	ab	ab	a		
BSH	ATS	CP	Brazil	LL	t1			743	1103	616	179	1687	2173	1966	2160	2103	2520	3328	2309	2421	1268	1500	2808	1607	2013	2551	2420	1334	2177	3010	3784	3435	4629	3326	1840		
BSH	ATS	CP	Brazil	LL	t2			-1	a	a	-1	ab	a	a	a	a	ab	a	ab	a	ab	ab	ab	a	a	a	a	a	a	ab	ab	ab	ab	ab	a	a	
BSH	ATS	NCC	Chinese Taipei	LL	t1	1232	1767	1952	1737	1559	1496	1353	665	1172	521	800	866	1805	2177	1843	1356	1625	2142	2074	2257	2240	1854	1992	2053	1372	861	1338	1052	922	1652		
BSH	ATS	NCC	Chinese Taipei	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	
BSH	ATS	CP	Japan	LL	t1	1388	437	425	506	510	536	221	182	343	331	209	236	525	896	1789	981	1161	1483	3060	2255	3232	2277	2127	3112	3495	2513	2112	1408	1001	1324		
BSH	ATS	CP	Japan	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
BSH	ATS	CP	Ghana	GN	t1																																
BSH	ATS	CP	Ghana	GN	t2																																
BSH	ATS	CP	Uruguay	LL	t1	84	57	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130												
BSH	ATS	CP	Uruguay	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
BSH	ATS	CP	South Africa	LL	t1					23	21			82	63	232	128	154	90	82	126	119	112	317	158	179	525	402	356	418	403	292	52	181	100	52	
BSH	ATS	CP	South Africa	LL	t2					-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	
BSH	ATS	CP	China PR	LL	t1									565	316	452	444	404	434	585	40	109	41	131	84	64	48	20	30	283	127	52	45	15	5	67	
BSH	ATS	CP	China PR	LL	t2									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
BSH	ATS	CP	Belize	LL	t1									37	259	99	236	109	148	273	243	483	234	171	105	167	200	222	165	15	21						
BSH	ATS	CP	Belize	LL	t2									a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
BSH	ATS	CP	S Tomé e Príncipe	PS	t1																																
BSH	ATS	CP	S Tomé e Príncipe	PS	t2																																
BSH	ATS	CP	Korea Rep	LL	t1																																
BSH	ATS	CP	Korea Rep	LL	t2																																
BSH	ATS	CP	Côte d'Ivoire	LL	t1																																
BSH	ATS	CP	Côte d'Ivoire	LL	t2																																
BSH	ATS	CP	Namibia	BB	t1																																
BSH	ATS	CP	Namibia	BB	t2																																





Table 23. POR-NW region

			T1 Total	1698	1415	1192	1418	1141	1046	988	574	282	164	264	237	217	101	141	84	114	85	162	284	35	93	30	39	19	16	11	10	7	6										
Score	3.53																														Rank	%	%cum										
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023								
POR	ANW	CP	Canada	LL	t1	1575	1351	1045	1322	1055	956	899	491	223	130	220	191	184	83	115	50	65	22	29	16	8	3	2	2	1	0	1	2	4	3	1	84.65	84.65					
POR	ANW	CP	Canada	LL	t2	-1	-1	a	a	a	a	a	-1	a	a	a	-1	a	a	a	abc	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	a	a	a	a	a	2	4.44	89.10				
POR	ANW	CP	Japan	LL	t1	29	15	10	9	19	41	47	52	21	7	20	27	18	5	11	11	15	13	49	99	1	5	1	1								2						
POR	ANW	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	a	a	-1	-1	-1	-1							2					
POR	ANW	NCC	Chinese Taipei	LL	t1	10	12	27	18	13	27	19	18	22	12	8	7	5	3	2	2	5	8	15	22	51	2	15	8									3	2.60	91.70			
POR	ANW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3					
POR	ANW	CP	USA	LL	t1	80	26	58	41	7	0	1	0	1	0	1	0	0	0	0	0	2	3	2	1	2	7	34	1	9	1	0	0				4	2.35	94.05				
POR	ANW	CP	USA	LL	t2	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4				
POR	ANW	CP	Venezuela	LL	t1	4	1	7	2	8	9	6	2	0	0							1	4	4	10	20	7	20	8	15	9						5	1.76	95.81				
POR	ANW	CP	Venezuela	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5					
POR	ANW	CP	Canada	GN	t1	2	4	8	11	6	2	7	12	11	10	10	6	10	8	11	18	7	2	0	1	1	0	0	0									6	1.26	97.07			
POR	ANW	CP	Canada	GN	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	6						
POR	ANW	CP	FR-St Pierre et Miquelon	LL	t1	7	40	13	20			13	2	1	2	4					1																	7	0.87	97.94			
POR	ANW	CP	FR-St Pierre et Miquelon	LL	t2	-1	-1	-1	-1			-1	-1	-1	-1	-1					-1																	7					
POR	ANW	CP	USA	RR	t1																1	7	19	27	6	8	4	8	3	12	5	1	0	1				8	0.86	98.80			
POR	ANW	CP	USA	RR	t2																-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	ab	ab				8					
POR	ANW	CP	Canada	TW	t1	1	2	4	3	2	1	1	1	1	1	1	2	2	0	0	1	1	1	2	3	0	2	2	2	2	3	4	6	3	0			9	0.43	99.23			
POR	ANW	CP	Canada	TW	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	9					
POR	ANW	CP	Korea Rep	LL	t1																1	1	1	13	21	3	0											10	0.33	99.56			
POR	ANW	CP	Korea Rep	LL	t2																-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	10					
POR	ANW	CP	Barbados	LL	t1			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	13	2	5	2	2	2						11	0.30	99.87		
POR	ANW	CP	Barbados	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	11				
POR	ANW	CP	USA	GN	t1					2	2	0	1																										12	0.04	99.91		
POR	ANW	CP	USA	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12				
POR	ANW	CP	Canada	HL	t1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0.02	99.93		
POR	ANW	CP	Canada	HL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	13				
POR	ANW	NCO	Cuba	LL	t1											1	1	1																					14	0.02	99.96		
POR	ANW	NCO	Cuba	LL	t2											-1	-1	-1																					14				
POR	ANW	CP	USA	TW	t1																																		15	0.02	99.98		
POR	ANW	CP	USA	TW	t2																																			15			
POR	ANW	CP	Canada	HP	t1					0	0	0																												16	0.01	99.99	
POR	ANW	CP	Canada	HP	t2					a	a	a																												16			
POR	ANW	CP	USA	HL	t1																																			17	0.01	99.99	
POR	ANW	CP	USA	HL	t2																																			17			
POR	ANW	CP	Canada	RR	t1																																			18	0.00	100.00	
POR	ANW	CP	Canada	RR	t2																																			18			
POR	ANW	CP	Canada	TL	t1																																			19	0.00	100.00	
POR	ANW	CP	Canada	TL	t2																																			19			
POR	ANW	CP	USA	UN	t1																																			20	0.00	100.00	
POR	ANW	CP	USA	UN	t2																																			20			
POR	ANW	CP	UK-Bermuda	LL	t1																																			21	0.00	100.00	
POR	ANW	CP	UK-Bermuda	LL	t2																																				21		

Table 24. POR-SE region

Score		0.70		T1 Total	0	0	3	19	1	6	0	1	1	9	3	1	0	5	30	37	6	7	26	29	38	3	1	0	4	0	0	0	0							
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023					
POR	ASE	CP	Japan	LL	t1			3	13										5	29	25	6	7	25	15	13	3	1	0							Rank	%	%cum		
POR	ASE	CP	Japan	LL	t2			-1	-1										-1	-1	a	a	a	a	a	a	a	a	a							1	63.16	63.16		
POR	ASE	CP	EU-España	LL	t1			2	1	2			1	1	9	3			0	1	11															2	13.56	76.72		
POR	ASE	CP	EU-España	LL	t2			-1	-1	-1			-1	-1	-1	-1			-1	-1	-1															2				
POR	ASE	CP	Ghana	PS	t1																				25											3	10.78	87.50		
POR	ASE	CP	Ghana	PS	t2																															3				
POR	ASE	CP	Korea Rep	LL	t1																			14													4	7.85	95.35	
POR	ASE	CP	Korea Rep	LL	t2																																4			
POR	ASE	NGO	Benin	UN	t1			4	0	4																											5	3.42	98.78	
POR	ASE	NCO	Benin	UN	t2			-1	-1	-1																											5			
POR	ASE	NCC	Chinese Taipei	LL	t1																																	6	0.56	99.34
POR	ASE	NCC	Chinese Taipei	LL	t2																																	6		
POR	ASE	CP	EU-Portugal	LL	t1																																	7	0.43	99.77
POR	ASE	CP	EU-Portugal	LL	t2																																	7		
POR	ASE	CP	Guinea Ecuatorial	HL	t1																																	8		
POR	ASE	CP	Guinea Ecuatorial	HL	t2																																	8		
POR	ASE	CP	EU-España	PS	t1																																	9	0.01	99.99
POR	ASE	CP	EU-España	PS	t2																																	9		
POR	ASE	CP	Curaçao	PS	t1																																	10	0.01	99.99
POR	ASE	CP	Curaçao	PS	t2																																	10		
POR	ASE	CP	Guatemala	PS	t1																																	11	0.00	99.99
POR	ASE	CP	Guatemala	PS	t2																																	11		
POR	ASE	CP	El Salvador	PS	t1																																	12	0.00	100.00
POR	ASE	CP	El Salvador	PS	t2																																	12		
POR	ASE	CP	Panama	PS	t1																																	13	0.00	100.00
POR	ASE	CP	Panama	PS	t2																																	13		
POR	ASE	CP	South Africa	LL	t1																																	14	0.00	100.00
POR	ASE	CP	South Africa	LL	t2																																	14		



Table 26. SMA-N region

Score		4.52		T1 Total	3662	5307	5307	3537	3847	2859	2598	2682	3426	3987	4000	3695	3574	4158	3802	4542	4783	3722	4440	3604	3469	3282	3357	3119	2392	1886	1740	1194	829	1108	Rank	%	%cum					
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023							
SMA	ATN	CP	EU-España	LL	t1	2164	2209	3294	2416	2223	2051	1561	1684	2047	2068	2088	1751	1918	1814	1895	2216	2091	1667	2308	1509	1481	1362	1574	1784	1165	866	870	585	588	936	1	52.23	52.23				
SMA	ATN	CP	EU-España	LL	t2	-1	-1	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	1						
SMA	ATN	CP	EU-Portugal	LL	t1	649	657	691	354	307	327	318	378	415	1249	399	1109	951	1540	1033	1169	1432	1045	1023	817	209	213	257	270	268	284	350	210	141	87	2	18.17	70.40				
SMA	ATN	CP	EU-Portugal	LL	t2	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	2						
SMA	ATN	CP	Maroc	LL	t1												147	169	215	220	151	283	476	636	390	380	616	580	807	1000	320	423	357	382	299		3	7.86	78.26			
SMA	ATN	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3					
SMA	ATN	CP	USA	RR	t1	317	1422	232	164	148	69	290	214	248	0	336	282	257	158	156	163	183	180	236	227	816	480	168	192	125	25	24	22	27		4	7.17	85.42				
SMA	ATN	CP	USA	RR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4				
SMA	ATN	CP	Japan	LL	t1	214	592	790	258	892	120	138	105	438	267	572					82	131	98	116	53	56	33	69	45	74	89	20	33	28	15	10	14	5	5.36	90.78		
SMA	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5				
SMA	ATN	CP	USA	LL	t1	269	259	165	181	146	125	131	135	123	105	140	138	95	167	149	171	168	160	152	140	155	100	108	112	41	32	26	20	23	29		6	3.77	94.55			
SMA	ATN	CP	USA	LL	t2	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6			
SMA	ATN	CP	Canada	LL	t1	93	56	99	55	54	59	60	61	63	69	74	64	64	39	50	39	37	28	35	53	84	82	109	54	62	18	22	26	11		7	1.62	96.17				
SMA	ATN	CP	Canada	LL	t2	-1	a	a	a	a	a	a	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	7					
SMA	ATN	NCC	Chinese Taipei	LL	t1	29	32	45	42	47	75	56	47	53	37	70	68	40	6	23	11	14	13	15	8	4	15	8	1	22	5	12	1	2	7		8	0.81	96.98			
SMA	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8			
SMA	ATN	CP	Maroc	PS	t1																																	9	0.79	97.77		
SMA	ATN	CP	Maroc	PS	t2																																		9			
SMA	ATN	CP	Belize	LL	t1																																		10	0.36	98.13	
SMA	ATN	CP	Belize	LL	t2																																			10		
SMA	ATN	CP	Venezuela	LL	t1	3	4	12	3	1	2	2	20	16	22	58	20	6	11	2	35	22	18	24	6	7	7	7	9	7	8	3	1	0					11	0.35	98.48	
SMA	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	b	b	b	b	ab	a	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	11			
SMA	ATN	CP	China PR	LL	t1																																		12	0.24	98.72	
SMA	ATN	CP	China PR	LL	t2																																			12		
SMA	ATN	CP	Canada	GN	t1		17	10	9	12	14	17	8	14	8	9	15	6	7	2	3	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13	0.16	98.87	
SMA	ATN	CP	Canada	GN	t2		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	13				
SMA	ATN	CP	Panama	LL	t1							1	0																										14	0.15	99.02	
SMA	ATN	CP	Panama	LL	t2							-1	-1																										14			
SMA	ATN	CP	Mexico	LL	t1		10					10	16		10	6	9	5	8	6	7	8	8	8	4	4	4	4	4	5	2	2	2	2	3	2		15	0.15	99.17		
SMA	ATN	CP	Mexico	LL	t2	a	a	a	a	a	a	a	ab	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	15			
SMA	ATN	CP	Venezuela	GN	t1	4	3	6	6	8	4	7	4	5	6	6	7	8	8	6	6	5	2	9	3	6													16			
SMA	ATN	CP	Venezuela	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16		
SMA	ATN	CP	EU-Portugal	UN	t1																																		17	0.11	99.40	
SMA	ATN	CP	EU-Portugal	UN	t2																																			17		
SMA	ATN	CP	Senegal	GN	t1																																		18	0.11	99.50	
SMA	ATN	CP	Senegal	GN	t2																																			18		
SMA	ATN	CP	Korea Rep	LL	t1																																		19	0.09	99.60	
SMA	ATN	CP	Korea Rep	LL	t2																																			19		

Table 27. SMA-S region

Score			T1 Total																												Rank	%	%cum								
Species	Stock	Status	FlagName	GearGrp	DSet	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				2019	2020	2021	2022	2023			
SMA	ATS	CP	EU-España	LL	t1	552	1084	1482	1356	984	861	1090	1235	811	1158	703	584	664	654	628	922	1192	1535	1207	1083	1077	862	882	1049	1044	1090	799	650	657	187	1	37.00	37.00			
SMA	ATS	CP	EU-España	LL	t2	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	1			
SMA	ATS	CP	Namibia	LL	t1						1				459	375	509	1415	1243	1002	295	23	306	328	554	9	950	661	799	194	980	929	637	789	545	2	17.13	54.13			
SMA	ATS	CP	Namibia	LL	t2																																				
SMA	ATS	CP	EU-Portugal	LL	t1		92	94	165	116	119	388	140	56	625	13	242	493	375	321	502	336	409	176	132	127	158	393	503	300	243	449	357	358	388	3	10.63	64.76			
SMA	ATS	CP	EU-Portugal	LL	t2																																				
SMA	ATS	CP	Brazil	LL	t1	95	119	83	190	233	27	219	409	226	283	177	426	183	152	121	92	128	179	193	276	256	172	124	275	386	739	542	477	555	105	4	9.82	74.58			
SMA	ATS	CP	Brazil	LL	t2	-1	-1	-1	a	-1	-1	ab	a	a	a	a	ab	a	ab	a	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		
SMA	ATS	CP	Japan	LL	t1	1369	1617	514	244	267	151	264	56	133	118	398																									
SMA	ATS	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SMA	ATS	CP	South Africa	LL	t1	23	46	36	29	168	66	103	68	12	115	101	111	86	224	137	146	152	218	108	250	476	613	339	305	244	110	46	70	66	96	6	6.01	89.42			
SMA	ATS	CP	South Africa	LL	t2	-1	-1	-1	-1	-1	-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		
SMA	ATS	NCC	Chinese Taipei	LL	t1	65	87	117	139	130	198	162	120	146	83	180	226	166	147	124	117	144	204	158	157	161	154	95	88	66	44	54	37	26	11	7	4.75	94.17			
SMA	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SMA	ATS	CP	China PR	LL	t1	45	23	27	19	74	126	305	22	208	260	68	45	70	77	6	24	32	29	8	9	9	5	3	1												
SMA	ATS	CP	China PR	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SMA	ATS	CP	Uruguay	LL	t1	12	17	26	20	23	21	35	40	38	188	249	146	68	36	41	106	23	76	36	1																
SMA	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SMA	ATS	CP	Côte d'Ivoire	GN	t1	20	13	15	23	10	10	9	15	15	30	15	14	16	25																						
SMA	ATS	CP	Côte d'Ivoire	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SMA	ATS	CP	Belize	LL	t1																																				
SMA	ATS	CP	Belize	LL	t2																																				
SMA	ATS	CP	Brazil	UN	t1																																				
SMA	ATS	CP	Brazil	UN	t2																																				
SMA	ATS	CP	Senegal	LL	t1																																				
SMA	ATS	CP	Senegal	LL	t2																																				
SMA	ATS	CP	Korea Rep	LL	t1																																				
SMA	ATS	CP	Korea Rep	LL	t2																																				

Appendix 2: Summary of FAD information received in FAD Management Plans and ST08 forms for 2023 (some datasets could require revisions).

Appendice 2. Résumé des informations sur les DCP reçues dans les plans de gestion des DCP et les formulaires ST08 au titre de 2023 (certains jeux de données pourraient nécessiter des révisions).

Apéndice 2: Resumen de la información sobre DCP recibida en los planes de ordenación de DCP y en los formularios ST08 para 2023 (algunos conjuntos de datos requieren revisión).

<b>Tropical Tunas Fishing Management Plan including a FAD Management Plan</b>	<b>Reported 2023 FAD deployment data on ST08</b>	<b>Report 2023 of non-FAD deployment in ST08</b>
Belize	Belize	Canada
Brazil	Curaçao	Costa Rica
China PR	El Salvador	FR-St Pierre et Miquelon
Chinese Taipei	EU-España	Great Britain
Costa Rica	EU-France	Korea Rep
Curaçao	Ghana	Mexico
El Salvador	Guatemala	Philippines
EU-España	Guinée Rep	UK (Overseas Territories)
EU-France	Korea	
Ghana	Maroc	
Guatemala	Panama	
Japan	Senegal	
Korea Rep	Sta Lucia	
Maroc		
Nicaragua		
Panama		
Senegal		
Trinidad and Tobago		
UK (Overseas Territories)		
Venezuela		

**Appendix 3. Summary of ICCAT CPC Domestic Observer Programs implementation.**

**Appendice 3. Résumé de la mise en oeuvre des programmes nationaux d'observateurs des CPC de l'ICCAT.**

**Apéndice 3 : Resumen de la información sobre la implementación de los Programas de observadores internos de las CPC de ICCAT.**

Flag CPC	Start year	Fisheries monitored (1 or more)	Coverage ratio	Coverage based on
Belize	2018	LL		0.1 No. of Vessels
Canada	2018	LL		0.03 No. Trips
Capo Verde	2005	PS		
China	2009	LL		0.16 No. of hooks
Chinese Taipei	2018	LL		0.09 No. of days
Curacao	2018	PS		1 No. of sets
El Salvador	2018	PS		0.76 No. of sets
EU. Portugal	2018	LL		1 No. of sets
EU.Cyprus	2006	LL		0.01 No. Of annual trips
EU.France	2018	PS		1 No. of sets
EU.Greece	NA	LL		3
EU.Italy	2016	LL, TP	-	No. of vessels
EU.Malta	2008	LL		0.12 No. Of Vessels
EU.Portugal Madeira	2018	BB, HL		0.11 No. Of Vessels
Ghana	2006	PS, BB		0.67 No. of vessels
Guatemala	2013	PS		0.45 No. of sets
Great Britain	2023	TW		0.11 TW-Nday
Japan	1992	LL		0.08 Other No of fish operations
Korea	2002	LL		0.11 No. of sets
Maroc	2018	LL,TP		0.05 No. Of Vessels
Mexico	2018	LL		1 No. of trips
Norway	2018	LL, PS	NA	No. Trips
Panama	2013	PS		0.63 No. of sets
Russia	2018	TW		0.14 TW-Nday
Senegal	2023	PS		1 No. of sets
South Africa	2012	LL		0.11 No. sets
Suriname	2023	PS		0.02 No. of Trips
Tunisia	2012	PS,LL		0.96 No. of sets
Turkey	2012	LL		1 No. Of annual trips
Turkey	2018	LL		0.11 No. of sets
UK-Bermuda	2023	RR		1 No. of days
UK-Sta Helena	2021	RR		0.04 No. of days
UK-Turks and Caicos	2023			
UK-British Virgin Islands	2023			
USA	1992	LL		8 No. of sets predefined strata per quarter

Appendix 4. Number of ST09 form submitted (including revisions pending) by CPCs during the Reporting Period.

Appendice 4. Nombre de formulaires ST09 soumis (y compris les révisions en attente) par CPC pendant la période de déclaration.

Apéndice 4. Número de formularios ST09 presentados (incluidas las revisiones pendientes) por las CPC durante el periodo de comunicación.

Count of ST09 Submissions	FlagName	fileReported	FormContentCode	Total
<b>Data source</b>				
<b>EMS only</b>	EU-España	ST09_EU-ESP2023-23F-NF#E24-09183_EMS.xlsx	New (FULL)	1
<b>Observers &amp; EMS (complement)</b>	Panama	ST09_PAN2023-23P-NP#E24-04719_PS-EMS.xlsx	New (PARTIAL)	1
	Tunisie	ST09_TUN2023-23P-NF#E24-07976.xlsx	New (FULL)	1
<b>Observers (human) only</b>	Canada	ST09_CAN2023-23F-RF#E24-09440_rev.xlsx	Revision (FULL)	1
	China PR	ST09_CHN2023-23F-NF#E24-08263.xlsx	New (FULL)	1
	Chinese Taipei	ST09_TAI2023-23P-NF#E24-07847.xlsx	New (FULL)	1
	Curaçao	ST09_CUW2023-23F-NF#E24-09016.xlsx	New (FULL)	1
	El Salvador	ST09_SLV2023-23P-NP#E24-04718.xlsx	New (PARTIAL)	1
	EU-Croatia	ST09_EU-HRV2023-23P-NF#E24-08310.xlsx	New (FULL)	1
	EU-Cyprus	ST09_EU-CYP2023-23P-NP#E24-08311.xlsx	New (PARTIAL)	1
	EU-España	ST09_EU-ESP2023-23F-NF#E24-09183_Humans.xlsx	New (FULL)	1
		ST09_EU-ESP2023-23P-NP#E24-04830.xlsx	New (PARTIAL)	1
	EU-France	ST09_EU-FRA2023-23F-NF#E24-07689_ICCAT_SPECIES_repesa	New (FULL)	1
		ST09_EU-FRA2023-23F-NF#E24-07689_IFR.xlsx	New (FULL)	1
	EU-Greece	ST09_EU-GRC2023-23F-NF#E24-07977.xlsx	New (FULL)	1
	EU-Ireland	ST09_EU-IRL2023-23P-NP#E24-08994.xlsx	New (PARTIAL)	1
	EU-Italy	ST09_EU-ITA2023-23F-NF#E24-08356.xlsx	New (FULL)	1
	EU-Malta	ST09_EU-MLT2023-23F-NF#E24-07822.xlsx	New (FULL)	1
	EU-Portugal	ST09_EU-PRT2023-23P-NF#E24-06635.xlsx	New (FULL)	1
	Great Britain	ST09_GBR2023-23F-NF#E24-08702.xlsx	New (FULL)	1
	Guatemala	ST09_GTM2023-23P-NP#E24-08100.xlsx	New (PARTIAL)	1
	Japan	ST09_JPN2023-23P-NP#E24-08928.xlsx	New (PARTIAL)	1
	Korea Rep	ST09_KOR2023-23P-NF#E24-08758.xlsx	New (FULL)	1
	Maroc	ST09_MAR2023-23P-NP#E24-10038.xlsx	New (PARTIAL)	1
	Mexico	ST09_MEX2023-23P-NF#E24-08254.xlsx	New (FULL)	1
	Norway	ST09_NOR2023-23F-NF#E24-07543.xlsx	New (FULL)	1
	Panama	ST09_PAN2023-23P-NP#E24-04719_LL.xlsx	New (PARTIAL)	1
	Russian Federation	ST09_RUS2023-23F-RF#E24-07674.xlsx	Revision (FULL)	1
	Senegal	ST09_SEN2023-23P-NF#E24-09544_rev.xlsx	New (FULL)	1
	South Africa	ST09_ZAF2023-23F-NF#E24-09197_rev.xlsx	New (FULL)	1
		ST09_ZAF2023-23F-NF#E24-10741_Seabirds.xlsx	New (FULL)	1
		ST09_ZAF2023-23F-NF#E24-10741_Turtles.xlsx	New (FULL)	1
	Sta Lucia	ST09_LCA2023-23F-NF#E24-05262.xlsx	New (FULL)	1
	Suriname	ST09_SUR2023-23F-NF#E24-08689.xlsx	New (FULL)	1
	Türkiye	ST09_TUR2023-23F-NF#E24-08579.xlsx	New (FULL)	1
	UK-Bermuda	ST09_UK-BMU2023-23F-NF#E24-08702.xlsx	New (FULL)	1
	UK-Sta Helena	ST09_UK-SHN2023-23F-NF#E24-08230.xlsx	New (FULL)	1
	USA	ST09_USA2023-23P-NF#E24-07431.xlsx	New (FULL)	1
<b>Other (specified it in notes)</b>	Cape Verde	ST09_CPV2023-23F-NP#E24-08921.xlsx	New (PARTIAL)	1
	Costa Rica	ST09_CRI2023-23F-NP#E24-08242_empty.xlsx	New (PARTIAL)	1
	Iceland	ST09_ISL2023-23F-NF#E24-08548_empty.xlsx	New (FULL)	1
	UK-Turks and Caicos	ST09_UK-TCA2023-23F-NF#E24-08230_empty.xlsx	New (FULL)	1
	Bolivia	ST09_BOL2023-23F-NF#E24-10683_empty.xlsx	New (FULL)	1
<b>Grand Total</b>				<b>43</b>



Appendix 5. Summary of the number of support vessels with an ICCAT vessel ID reported by CPCs for the tropical tuna fleets using the ST07 form from 2010 to 2023. The \* indicates CPCs that have specifically reported no support vessels in their Tropical tuna fisheries in the ST07 form.

Appendice 5. Résumé du nombre de navires de support avec un ID de navire ICCAT déclaré par les CPC pour les flottilles de thonidés tropicaux en utilisant le formulaire ST07 de 2010 à 2023. L'astérisque (\*) indique les CPC qui ont spécifiquement déclaré n'avoir aucun navire de support dans leurs pêcheries de thonidés tropicaux dans le formulaire ST07.

Apéndice 5. Resumen del número de buques de apoyo con un ID de buque ICCAT comunicado por las CPC para las flotas de túnidos tropicales utilizando el formulario ST07 de 2010 a 2023. El \* indica las CPC que han comunicado específicamente no tener ningún buque de apoyo en sus pesquerías de túnidos tropicales en el formulario ST07.

FlagName	2010	2013	2014	2016	2018	2019	2020	2021	2022	2023
Belize				1		4	3	2	1	1
Bolivia *										
Canada *										
Costa Rica *										
Curaçao		1	1			2	2	1	3	2
El Salvador							1	1	1	1
EU-España						4		3	2	2
EU-France *										
FR-St Pierre et Miquelon *										
Great Britain *										
Guatemala *										
Guinée Rep *										
Korea Rep *										
Libya *										
Mexico *										
Nigeria *										
Panama					1	4	1	6	2	2
Philippines *										
Senegal						1				
Sta Lucia *										
UK-Bermuda *										
UK-British Virgin Islands *										
UK-Sta Helena *										
UK-Turks and Caicos *										

**List of SCRS documents that include Secretariat staff in their authorship (in bold)**  
**Liste des documents du SCRS dont les auteurs sont des membres du Secrétariat (en gras)**  
**Lista de documentos SCRS que incluyen a miembros de la Secretaría entre sus autores (en negrita)**

DocRef	Title	Authors
SCRS/2023/030	Revisiting hypotheses of population structure within the Mediterranean in the light of newly available electronic tagging studies	Rouyer T., Cabello M., <b>Tensek S., Pagá-García A, Alemany F.,</b> Laurretta M., and Arrizabalaga H.
SCRS/2023/136	A proposal to standardize the Task 1 Nominal Catch table in the Executive Summaries of the SCRS Annual report	Guillermo A. Diaz, Nicholas M.T. Duprey, and <b>Carlos Palma</b>
SCRS/2023/145	Review and diagnostics of the stock synthesis assessment model for northern Atlantic albacore.	Urtizberea A., Laurretta M., Merino G., Kimoto A., Ortiz M., Schirripa M., Calay S., Brown C., Ortiz de Zarate V., Morón Correa G., Santiago J., Arrizabalaga H.
SCRS/2023/159	ICCAT Atlantic-Wide Research Programme for Bluefin Tuna (GBYP) activity report for Phase 12 and the first part of Phase 13 (2022-2023)	<b>Alemany F., Tensek S., Pagá A.</b>
SCRS/2023/164	Interpolation of the growth table for farming bluefin tuna	<b>Ortiz M.</b> , Tsukahara Y.
SCRS/2023/167	Desing and exploitation of the AOTTP tagging database	<b>Garcia J., Palma C., and Mayor C.</b>
SCRS/2023/170	Updates to indices used by the adopted management procedure for Atlantic bluefin tuna	Carruthers T, <b>Kimoto A.</b>
SCRS/2023/175	Summary and review of the FOB/FADs deployed ST08-FadsDep ICCAT database 2011 - 2022.	<b>Ortiz M., Mayor C., and Palma C.</b>
SCRS/2024/016	An Overview of the Southern Swordfish Closed-Loop Simulation Approach	<b>Taylor N.G.</b>
SCRS/2024/021	Standardized catch rates for blue marlin ( <i>Makaira nigricans</i> ) from the Venezuelan pelagic longline fishery off the Caribbean Sea and adjacent areas of the western Central Atlantic 1991 - 2018.	Arocha F., <b>Ortiz M.</b>
SCRS/2024/025	Update of input data (catch and size) for the Atlantic blue marlin ( <i>Makaira nigricans</i> ) stock assessment models 2024.	<b>Ortiz M., Kimoto A., and Mayor C.</b>
SCRS/2024/028	A Review of Objectives, Performance Metrics, for Management Strategy Evaluation at tRMFOs	<b>Taylor N.G.</b> , Miller S., and Dupre N.
SCRS/2024/038	Estimation of Ghana Tasks 1 and 2 purse seine and baitboat catch 2019 – 2022: data input 2024 yellowfin stock assessment	<b>Ortiz M., Ayivi S., Kwame Dovlo E., and Mayor C.</b>
SCRS/2024/039	Review and preliminary analyses of size samples of Atlantic yellowfin tuna stock ( <i>Thunnus albacares</i> ).	<b>Ortiz M., Kimoto A.</b>
SCRS/2024/047	Revision of historical catch statistics of yellowfin tuna ( <i>Thunnus albacares</i> ) caught by the Mexican fishing fleet in the Gulf of Mexico.	Rámirez-López K., Rojas González R.I., and <b>Mayor C.</b>

DocRef	Title	Authors
SCRS/2024/066	Standardized catch per unit of effort of albacore ( <i>Thunnus alalunga</i> ) from the Spanish bait boat fleet for period: 1981-2023 in the North East Atlantic	Ortiz de Zarate V., <b>Ortiz M.</b>
SCRS/2024/076	Preliminary 2024 stock assessment of Mediterranean albacore ( <i>Thunnus alalunga</i> ) using the Bayesian state-space surplus production model JABBA.	Pinto C., <b>Kimoto A.</b> , and Winker H.
SCRS/2024/081	Incorporating Climate Considerations into Fisheries Assessments and Management Advice at ICCAT	<b>Taylor N.G.</b> , Walter J.
SCRS/2024/087	EcoTest Phase III: Identifying Indicators	Carruthers T, Huynh Q., and <b>Taylor N.G.</b>
SCRS/2024/097	Listing Criteria and Non-Detriment Findings for CITES-Listed Shark Species	<b>Taylor N.G.</b>
SCRS/2024/098	Mobulid Rays in the ICCAT Convention Area: a Review of Current Knowledge	Ellis J., Carlson J., Coelho R., Reeves S., Cronin M., Domingo A., Forselledo R., Mas F., Moreno G., Reeves S., Restrepo V., and <b>Taylor N.G.</b>
SCRS/2024/106	Assessment of Atlantic blue marlin ( <i>Makaira nigricans</i> ) using JABBA model (1956-2022)	Mourato B., Kikuchi E., Sant'Ana R., Cardoso L.G., Ngom F.; Narvaez Ruiz M., Arocha F., <b>Kimoto A., and Ortiz M.</b>
SCRS/2024/109	2024 ICCAT Workshop in the Caribbean (West Atlantic) region for the improvement of statistical data collection and reporting on small-scale (artisanal) fisheries	Die D., Arocha F., <b>Mayor C.</b> , Fernandez M.
SCRS/2024/110	Atlantic yellowfin tuna stock synthesis population analyses.	Lauretta M., <b>Ortiz M., Kimoto A.</b> , Sagarese S., Urtizberea A.O, Moron G., Merino M., and Cass-Calay S.
SCRS/2024/111	Atlantic yellowfin tuna stock synthesis population analyses: sensitivity exploration and proposal for a reference grid with diagnostics	Merino G., Lauretta M., <b>Ortiz M., Kimoto A.</b> , Sagarese S., Urtizberea A., Morón-Correa G., and Cass-Calay S.
SCRS/2024/112	2024 Atlantic Blue Marlin Stock Assessment Updated Stock Projections Authors.	Kimoto A., Mourato B., Schirripa M., Kikuchi E., and <b>Ortiz M.</b>
SCRS/2024/114	Preliminary Atlantic Yellowfin tuna stock assessment in 2024: An implementation of Bayesian state-space Surplus Production Model using JABBA.	Sant'Ana R., <b>Kimoto A.</b> , Kikuchi E., Cardoso L.G., Mourato B., and <b>Ortiz M.</b>
SCRS/2024/119	Revision of historical catch statistics of bigeye ( <i>Thunnus obesus</i> ) and skipjack ( <i>Katsuwonus pelamis</i> ) caught by the Mexican fishing fleet in the Gulf of Mexico	Ramirez-Lopez K., Rojas-Gonzales R.I., and <b>Mayor C.</b>
SCRS/2024/132	ICCAT Atlantic-wide research Programme for bluefin tuna (GBYP) activity report for phase 13 and the first part of phase 14 (2022-2023).	<b>Aleman F., Tensek S., and Pagá García A.</b>
SCRS/2024/138	Explaining the discrepancy between stereocamera footage and measured harvest length data of farmed Atlantic bluefin tuna ( <i>Thunnus thynnus</i> )	Deguara S., <b>Aleman F.J., Pagá A., and Tensek S.</b>

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SCRS/2024/143	Signs of an expansion of Atlantic bluefin tuna spawning grounds in the western Mediterranean Sea	Pérez-Sánchez T., Pérez M., Quintanilla J.M., Macías D., Ortega A., de la Gándara F., <b>Aleman F.</b> , Vargas-Yáñez M., García A., Laiz-Carrión R., Johnstone C.
SCRS/2024/150	Feasibility study for the application of the close kin mark recapture methodology for eastern Atlantic and Mediterranean bluefin tuna	Rodriguez-Marin E., <b>Aleman F.</b> , Bravington M., Díaz-Arce N., Fernández C., Lauretta M., Parma A., Rodriguez-Ezpeleta N., Ruzzante D., and Walter J.
SCRS/2024/154	Evaluation of the relative fishing mortality impact by main fleet gear based on blue marlin and the west sailfish stock.	<b>Ortiz M., Kimoto A.</b> , Schirripa M., and Sow F. N.
SCRS/2024/160	A compact BSH MSE using priors, the Rapid Conditioning Model, and tune Management Procedures	<b>Taylor N.G.</b>
SCRS/2024/163	2024 Atlantic Yellowfin Tuna Stock Assessment Stochastic Stock Projections Applying a Monte Carlo Approach	Lauretta M., Zipp K., Sagarese S., <b>Kimoto A.</b> , Courtney D., Urtizberea A., Merino G., <b>Ortiz M.</b> , Cass-Calay S.
SCRS/P/2023/016	Population connectivity of Atlantic Bluefin Tuna	Rodriguez-Ezpeleta N., Diaz-Arce N., Arrizabalaga H., Fraile I., Brophy D., Artetxe-Arrate I., Gagnaire P-A., Richardson D.E., Walter J.F., Arnaud-Haond S., Fromentin J-M, Lutcavage M., Addis P., <b>Aleman F.</b> , Allman R., Deguara S., Goñi N., Hanke A.R., Karakulak F.S., Pacicco A., Quattro J.M., and Rooker J.R.
SCRS/P/2023/017	GBYP and EU DCF sampling activities	<b>Aleman F., Tensek S., Paga A.</b> , McClelland E., Kostopoulou V., O'Dowd L., and Artetxe I.
SCRS/P/2023/103	GBYP aerial survey index: E-BFT spawning stock estimates 2017 - 2022	Paxton, C.G.M., Oedekovan, C.S., <b>Aleman F.</b> , Tugores, M.P., Alvarez, D., Burt, M.L., and Chudzinska, M.
SCRS/P/2024/001	Overview of SWOYP funding	<b>Secretariat</b>
SCRS/P/2024/005	Tagging summary for Swordfish (SWO)	<b>Secretariat</b>
SCRS/P/2024/009	Overview of ICCAT Science and funding between 2018 and 2024	<b>Secretariat</b>
SCRS/P/2024/010	Current status of ICCAT etagging programs: issues affecting performance of WC satellite tags and next steps	<b>Secretariat</b>
SCRS/P/2024/011	Updating on GBYP	<b>Aleman F.</b>
SCRS/P/2024/028	Operating Models for the new Management Strategy Evaluation framework for North Atlantic albacore.	Urtizberea A., Arrizabalaga H., Merino G., Lauretta M., Morón Correa G., Ortiz de Zárate V., Brown C., <b>Ortiz M. and Kimoto A.</b>
SCRS/P/2024/039	Preliminary Analysis of the Task 2 SZ data for Mediterranean Albacore.	<b>Ortiz M., Kimoto A., and Mayor C.</b>
SCRS/P/2024/040	Albacore Tuna <i>Thunnus alalunga</i> Overview of available Statistical data (1950-2022)	<b>Fiorellato F., Mayor C, and Garcia J.</b>
SCRS/P/2024/082	Overview on ICCAT Tagging: an historical perspective	<b>Garcia J.</b>

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SCRS/P/2024/083	Overview on ICCAT tagging of tropical tunas (AOTTP)	<b>Garcia J.</b>
SCRS/P/2024/084	Ongoing activities on ICCAT tagging database	<b>Garcia J.</b>
SCRS/P/2024/085	Overview on ICCAT tagging of BFT (GBYP program)	<b>Aleman F.</b>
SCRS/P/2024/086	Summary of problems affecting performance of pop-up satellite tags deployed within ICCAT etagging programs	<b>Aleman F.,</b>
SCRS/P/2024/087	Yellowfin tuna - Overview of statistical data updates (1950 - 2023).	<b>Fiorellato F.</b>
SCRS/P/2024/088	Updated yellowfin tuna catch-at-size (CAS YFT 1960-2022), with guidance on a systematic (automatic) approach.	<b>Palma C., Mayor C., Ortiz M., and Fiorellato F.</b>