

## 2023 Secretariat Report on Research and Statistics

The activities and information included in this report refer to the period between 1 October 2022 and 8 October 2023 (the Reporting Period)<sup>1</sup>. All the fisheries statistics, biological statistics and compliance related information have been presented by the Secretariat to the SCRS Working Groups during intersessional and Species Groups meetings. After five years of continuous improvements, the Secretariat observed in the last four years (2019 to 2022) a slight regression in data completion quality. More datasets have only passed the SCRS filtering criteria after the corrections had been made by the Secretariat (more than 90% of the errors linked to incomplete forms and invalid use of ICCAT codes). In addition, many CPC submissions have not used the most recent ICCAT electronic forms (2023 version to report data for 2022 and prior years). The Secretariat will keep working closely with CPCs' scientific correspondents to ameliorate these problems in the future. Regarding the activities conducted by the Secretariat in the most recent years, in addition to the normal activities developed on statistics, publications, data funds management and others, the Secretariat is dedicating substantial additional work related to stock assessment activities and the MSE processes, whether participating actively in the processes or coordinating and managing external support to the SCRS work. The year 2023 was even more difficult for the Secretariat than 2022, due to the high number of SCRS meetings (22), Commission meetings (15), Commission/SCRS meetings (5), as well as Workshops/Webinars (7) in which the Staff was deeply engaged. Such a high number of meetings have greatly impacted the Secretariat staff and limited the capacity of the Secretariat to work in a smoothly and timely manner. In addition, it should be noted that staff from both the Statistics and Science Departments are being requested to attend a considerable number of the Commission meetings. Finally, it is worth noting that a number of meetings are being held online and all in-person meetings have now a hybrid format, which involves an additional workload in terms of associated logistics, preparatory work and online meeting management. Accordingly, it is clear that such a high number of meetings and other events involving the Secretariat is jeopardizing the quality of its contribution, and cannot be kept at recent levels, unless the Commission substantially increase the staff and other financial resources related to the logistics associated to all these events in the ICCAT calendar.

### 1. Statistical and biological information reporting status

ICCAT Circular # 0866 / 2023 of 3 February 2023 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:

- North Atlantic Albacore Data Preparatory Meeting: 5 March 2023
- Blue Shark Data Preparatory Meeting: 2 April 2023
- Sailfish Data Preparatory and Stock Assessment Meeting: 21 May 2023

The general deadline for reporting 2022 statistics (or any required revision to prior years) of all species and fisheries was 31 July 2023. A tolerance of 24 hours has been given to include all the time zones.

A total of 57 ICCAT CPCs [52 Contracting Parties (CP), plus 5 Cooperating non-Contracting Parties/Entities/Fishing Entities (NCC)] have reporting obligations to ICCAT. For statistical purposes, this corresponds to a total of 75 flag related CPCs (50 CP + 1 CP [15 EU Member States] + 1 CP [5 UK flag States] + 5 NCC) who have reported information to ICCAT in recent years. The term "flag CPC" was adopted here to refer to those 75 flags.

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<sup>1</sup> Only the statistical data received during the Reporting Period by the Secretariat in valid formats (version 2023 of the electronic forms, or special agreed formats) were considered in this report.

The Secretariat continues to use (since 2015) the SCRS filtering criteria (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 under official formats. The filtering criteria, embedded in the electronic forms since 2015, are always maintained up to date in the latest versions of the statistical forms (i.e., 2023 version).

For 2022 data, Filter 1 was effectively applied 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, respectively. Whenever possible, the Secretariat has corrected the rejected datasets and informed (or will do so shortly) the respective CPCs on the revisions needed. The updated datasets that arrived before 31 July are shown in “green”, and the ones arriving afterwards are shown in “yellow”. The information associated to the “orange” cells were 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, because it requires the definition of the filtering criteria for those forms, and that the Secretariat prepare in advance the corresponding databases and forms and develop the data integration tools.

About 95% of all the “ST” statistical forms (ST01, ST02, ST03, ..., ST10) received (a total of about 1,180 forms) during the Reporting Period were automatically processed, validated and stored, using the new JAVA “automated data processing framework” (nearly 100%, discounting the data arriving in special formats). The Secretariat has already enlarged the functionality of this framework to process the remainder of the statistical forms of Task 3 (ST07, ST08, ST09, and ST10) and is working to include the automatic integration of the conventional tagging forms in the mid-term (advancements have been made to the tagging database redesign for both conventional and electronic tagging).

Nineteen flag CPCs have used older SCRS forms to report data from 2022 and prior years. To facilitate the revision process, the Secretariat moved whenever possible the information received in 5 older versions (2017 to 2022 versions) to the 2023 form versions and requested to the respective flag CPC a formal validation of the transformation. Given the increasing number of old versions of statistical forms used to report both new and historical data (~8% of a total of about 1,190 forms submitted during 2023), 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. Using historical forms obliges the Secretariat to move all the information of a given form to the most recent equivalent one, which poses an additional and unnecessary burden on the Secretariat. As explained in the past, the Secretariat does not have the means to maintain the code of the unattended data integration tools (import, validate, correct, integrate) developed to work with several historical versions (only the latest one has priority).

The overall reporting status for 2022 data (summarised in **Table 5** and **Figure 1**), shows that 70 of the 75 flag CPCs (93%) have reported fisheries and biological information: 63 flags with catches (84%); 7 flag CPCs with no fishing activity (9%). No information of any kind was received from 5 flag CPCs (7%) all over the Reporting Period: Gambia, Grenada, Guinea-Bissau, Honduras, and Sierra Leone.

### **1.1 Task 1**

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

### 1.1.1 Fleet characteristics (T1FC)

The information requested in form ST01-T1FC has two sub-forms. Sub-form ST01A is used to compile information by individual vessel. Sub-form ST01B, is used to compile information by groups of vessels, but only for small scale vessels (length overall less than 20 meters) not included in ST01A. Only the fishing vessels actively fishing within a given calendar year should be reported in ST01-T1FC.

The structure of the ST01 form adopted in 2015, allows to collect more complete and detailed information on effective fishing capacity, fleet structure, and optionally yearly based and gear independent nominal fishing effort (fishing days). However, the “optional” condition of reporting the nominal fishing effort (for 2022 data, about half of the flag CPCs reported fishing days) makes it unfeasible to obtain overall effort indicators and compromise possible estimates of total fishing capacity. Having the fishing days for each vessel in both Atlantic and Mediterranean regions would allow to effectively differentiate active from inactive vessels from all the authorised vessels to fish in the ICCAT Convention area in a given calendar year. Hence, the Secretariat reiterates once again the request to make this field mandatory aiming to improve the quality of T1FC data and its potential use in scientific studies.

The T1FC Report Card for 2022 is presented in **Table 1**. For the last nine years (2014 to 2022 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 (E-BFT, tropical species, and M-SWO).

The overall reporting ratio of ST01 for 2022 was 79% (59 flag CPCs) with 3 flag CPCs having late submissions and 9 flag CPCs with corrections to their data that may need future revisions. Sixteen flag CPCs (21%) have not yet reported this information.

The vessel sizes (length overall (LOA)) ranged from 5 to 150 meters in 2022 data, including small scale vessels reported in sub-form ST01B by 13 flag CPCs (about 4,730 vessels). Near 2,330 vessels reported in T1FC were not found in the ICCAT vessel record database (with about 59,500 vessels registered). Some cases could be related to different vessel characteristics being reported in the T1FC and in the ICCAT vessel record. Solving these inconsistencies will require additional work by the Secretariat.

### 1.1.2 Nominal catch (T1NC)

Task 1 nominal catch data (T1NC) which contains landings and discards (dead and alive) by species, stock, gear, fleet, and year (all in live weight) is a “key” dataset used by ICCAT to accomplish its mandate (in all the stock assessments, MCS and compliance work, etc.). Thus, a complete and timely available T1NC dataset is essential for the work of the SCRS and the Commission. The T1NC compiles (form ST02-T1NC) fishery statistics using two sub-forms. Sub-form ST02A, compiles positive catches (separating landings, dead discards, live discards, and live catches for farming facilities). Sub-form ST02B, compiles a “zero” catch matrix (major species/stock by gear) with positive fishing effort of 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 2022 is presented in **Table 2**. It shows the CPCs that have reported both positive catches and “zero” catches (excludes 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**. All the T1NC datasets received from 70 flag CPCs (93%), including one flag CPC with late reports, were processed and presented to the SCRS. This includes some datasets corrected by the Secretariat (orange cells, marked for revision) associated to 10 flag CPCs. Five flag CPCs (7%) have not yet reported this information. The total 2022 T1NC nominal catches (~ 877,000 t) reported for all species (discounting the live releases) is about 11% higher when compared with the average of the last five years (2017 to 2021: ~ 794,000 t). Since 2010, the 2021 catches continue to have lowest total catches (about 700,000 t, representing 11% less than the average of 2011-2022 with 785,000 t).

## 1.2 Task 2

Task 2 statistics with catch-effort and size information are more detailed in terms of time (month) and area (1x1, 5x5, or sampling areas), and often reflect a partial coverage associated to the total catches (T1NC). Task 2 information is the main source of data used by the SCRS in stock assessments and the Secretariat for the estimation of important datasets, such as CATDIS (catch distribution), EFFDIS (fishing effort and distribution), CAS, and CAA by species (all used by the SCRS and the Commission). ICCAT CPCs must report three types of Task-2 datasets under their respective electronic forms:

1. T2CE (catch & effort): using form ST03-T2CE
2. T2SZ (size samples): using form ST04-T2SZ
3. T2CS (catch-at-size): using form ST05-T2CS (only for ALB, BFT, BET, YFT, SKJ, SWO)

Or alternatively, any of the special agreed 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 caging; b) 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.

### 1.2.1 Catch and effort

The T2CE Report Card for 2022 is presented in **Table 3**. A total of 56 flag CPCs (75% reporting ratio), including 4 late-reporting flag CPCs and 9 with corrections to their data, have reported T2CE. At least 19 flag CPCs (25%) have not yet properly submitted T2CE statistics for 2022.

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 increased lately (in particular the pelagic shark species). For the most recent years, the 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 with a T2CE data recovery task, aiming to complete the gaps identified, and 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.) whenever possible, 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 of CPC scientists and Statistical Correspondents.

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

- a) Non-standard fishing effort types for certain gears (e.g., for longline “hooks” is the standard),
- b) Incomplete or partial species catch composition,
- c) “Double” counting of fishing effort, where same fishing effort is being 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 2022 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 arriving in 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 the datasets reported.

A total of 44 flag CPCs (59%), including two late-reporting flag CPCs and 6 with corrections to their data, have reported T2SZ. At least 31 flag CPCs (41%) have not yet submitted in good conditions T2SZ information for 2022.

Since 2017, the SCRS requires that all the T2SZ/T2CS datasets be reported by month, and with the highest geographical stratification possible (1x1, 5x5, 5x10, and 10x10 grids only), maintaining the ICCAT Sampling Areas for biological port sampling. All the size datasets for 2022 arrived by month. The use of smaller geographical grids (1x1, and 5x5) has also increased slightly. The size/weight class bins reported for 2022 have followed the SCRS recommendation on size structures (1, 2, and 5 cm) and weight structures (1 kg). As in years prior to 2022, some errors were identified in the units of the size/weight class bins (e.g., millimetres reported as centimetres) for 2022 T2SZ and T2CS datasets. These datasets 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 (28 tables) are presented in **Appendix 1**. These catalogues show the information for a “30 year” period (1993-2022), grouped by flag/gear group combinations, 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) by year. This instrument, which summarises large amounts of information per species/stock, shows the level of data completeness/availability, and 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 publishes 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: 1993-2022 versus 1992-2021) and already contains all the valid 2022 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-based 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., W-SKJ 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

### 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 270 releases and 121 recoveries were made during the Reporting Period.

During this year, 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 obtained from electronics tags including their metadata. Given its complexity (combination of various technologies, large amounts of data to inventory, recover and treat, etc.) this project was planned for at least three phases. Phase one and two have already been terminated. Their main objectives covered, the inventory of tagging data, the creation of the standard files (eTUFF: Electronic Tag Universal File Format) to be loaded into ETAGS, the installation and deployment of ETAGS in a Cloud server (database and application set), the consolidation of the metadata in the standard eTUFF files, and process of loading the ETAGS files into ETAGS.

The first operative version was presented at the Workshop on Atlantic Bluefin Tuna Electronic Tagging, held in July 2023. The presentation consisted of an end-to-end approach to electronic tag management, covering the full life cycle of electronic tags from programming, field deployment, data recovery and analysis to potential physical tag recovery. Additionally, it was also made a practical demonstration of how this information is firstly treated and afterwards imported into ETAGS using representative examples of Wildlife Computer satellite data returns, Lotek and Microwave Telemetry data.

### 1.3.2 Conventional tags

In relation to conventional tags, several Contracting Parties have reported to ICCAT a total of 5941 releases and 422 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 2075 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**).

The Secretariat has ongoing several projects such as the conventional tagging work on the database merge process (ICCAT, Atlantic Ocean Tropical tuna Tagging Programme (AOTTP), and GBYP), the integration of pending datasets received by ICCAT (e.g., some USA past submissions mostly with revisions), recovery of the shark species sex information, and other ongoing revisions and quality control on all tagging datasets, all aiming to increase the quality of the conventional tagging information managed by ICCAT. 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.

### 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 26 September 2022, prizes were awarded for three tags for each of the following categories: small tunas, sharks, billfishes, temperate tunas and tropicals. The winning tags per category were as follows:

Category	Tag winner	Species	Recovery notes
Small tunas	ATP140363	Wahoo ( <i>Acanthocybium solandri</i> , WAH)	UK. St Helena tagging campaigns
Sharks	377878	Blue shark ( <i>Prionace glauca</i> , BSH)	Spanish tagging campaigns
Billfishes	HM103152	Atlantic white marlin ( <i>Tetrapturus albidus</i> , WHM)	United States tagging campaigns
Temperate tunas	AAB001007	Albacore ( <i>Thunnus alalonga</i> , ALB)	Spanish tagging campaigns
Tropical	ATP154333	Bigeye tuna ( <i>Thunnus obesus</i> , BET)	Spanish 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:

- €1000: tag BYP077339, recovered by an Albanian citizen.
- €500: tag BYP061592, recovered by an Italian citizen.
- €500: tag AAB004368, recovered by a Croatian citizen.

## 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 29 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 cover 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., 2019 to 2021 plus 2022). All years before 2019 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 small tuna 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 T1NC improvements of these species, and this type of joint work should be recommended to the other ICCAT species groups. All the T1NC updates, containing all the revisions (majorly 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 (**Table 15**) for years between 2017 and 2021, some without a scientific document that, are pending to be included in T1NC. These catch series required a SCRS decision. For the period 2017-2019, Mauritania has reported exactly the same catch details (species, gear and area) as in the past. Therefore, this catch series were discarded by the SCRS without any impact. For the Ghanaian purse seine catches of 2021, the situation is more problematic. These amounts are related to vessels with trips overlapping 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 lately added to the respective year. This reiterative erroneous T1NC provision (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.

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](#)), some improvements were made. Belize (2017 to 2022), EU-España (2013 to 2022), Curaçao, El Salvador and Panama (2016 to 2022), and Senegal (2015-2022) have already updated their T2CE datasets with this Commission requirement (still pending some verifications). **Table 17** presents the historical T2CE datasets updated and adopted by the respective species groups (already integrated into the ICCAT DB) together with some remarks on the status.

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

## **2.2 Additional by-catch information**

The seabird mitigation measures, compiled in the past using forms CP44 and ST011, are now integrated in the new ST09 form. 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 relational database management system (RDBMS servers: MS-SQL 2016 as the main server; MariaDB 10.4 for the IOMS system; PostgreSQL 13.4 for tagging) with about 50 databases built to manage all the structured information received by the Secretariat (with some in heavy development). It has various frontend/backend tools including client applications developed mostly with Java technologies, SQL scripts, and some VBA tools (to be deprecated by the new applications under development). These tools are used to interact with the information (validation, transformation, processing, statistical analysis, data mining, standard outputs, etc.) and for data dissemination (web, ICCAT publications, meetings data provision, etc.).

In addition to the statistical and scientific information managed, 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 related tasks (control, verification quality assurance, storage and backups, etc.).

The Secretariat has under continuous development the ICCAT Integrated Online Management System (IOMS), aimed at managing online all the ICCAT data requirements. It is a long-term project intended to replace entirely the current ICCAT data reporting and management system (ICCAT-DB). Three senior software developer experts (two within the ICCAT staff, and a third financed by the European Union complementary contribution) are working full time on the IOMS project. A new senior back-end developer is in the process of being hired for one year (also financed by the European Union). This project is under the supervision (and partial contribution to the development) of the Statistics Department of the Secretariat. The European Union has always supported the IOMS with annual voluntary contributions (e.g., Grant No. SI2.839494 with €100,000 in 2021/2022; Grant No. 101058273 with €100,000 in 2022/2023). For the annual period 2023/2024, two additional grants were financed by the European Union (Grant No. 101132335 with €100,000 and Grant No. 101132360) specifically to handle the complexity of the IOMS Vessel Manager module and all their components (including the UN/FLUX integration). Details about the IOMS project area described in the [Report of the 2023 Meeting of the Online Reporting Technology Working Group \(WG-ORT\)](#). At the 2023 Intersessional Meeting of the WG-ORT, the WG-ORT acknowledged the outcome of the first two experimental years (2021 and 2022) with great improvements observed in the level of effective utilization by the ICCAT CPCs and their IOMS users in providing online some sections of their Annual Reports. In 2022, the Commission adopted the [Rec. 22-17](#), which requires that CPCs submit Part I / Annex 1 and Part II / Section 3 of the 2023 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 ICCAT CPC officers (as in 2021 and 2022) in the completion of the 2023 Annual Reports.



In 2021 and 2022 the Secretariat refined the databases to store information related to tropical support vessels, FAD deployments, and port sampling for tropical tunas, reported using forms ST07, ST08 and ST09, respectively. It has ongoing the redesign of four additional databases (Task 1, Task 2, Vessels, and, Tagging) aimed to be integrated into the IOMS project. The full ICCAT-DB documentation, composed of several parts (database reference manuals, user guides, “javadoc” for JAVA tools documentation, special articles, etc.) has been undergoing a merging process with the documentation related to IOMS implementation (standard manuals content to be managed by the IOMS dynamic Help System, already working under the IOMS). Both will be very similar databases, which will allow the elimination of redundant documentation. 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 of 2020, 2021 and the overloaded calendar of 2022 and 2023 obliged the Secretariat to delay or postpone several projects. The most important ones were: the replacement of the stand-alone MS-ACCESS databases with Task 2 data (T2CE: “t2ce.mdb”, T2SZ/CS: “t2sz.mdb”) by SQLite databases; the “ICCAT forms” online Task 1/2 validation prototype; delay of the GIS project (aimed at geo-reference all the pertinent datasets in ICCAT-DB, and to create a “marine-rich” PostGIS server); delays on the conventional/electronic tagging work (database redesign, automatic data integration tools, sex recoveries by individuals, etc.) and on the new “Biological Sampling” database aimed to handle all the large spectrum of biological data (ageing, maturity, stomach content, hard parts, etc.) obtained under ICCAT financed projects. 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 heavy 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.

### **3.1 Statistics**

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

All the electronic forms used to collect 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 “2023a” to incorporate the required changes of the SCRS (codes, structures, filtering criteria, etc.). The respective databases were updated accordingly. The Secretariat completed the automatic data integration of the information received in all ST type forms, and improved the automation processes to handle Task 1, Task 2 and Task 3 forms. The Secretariat is also working to develop similar automatic data integration tools for the conventional tagging forms TG01, TG02, and TG03. Extending this automatic integration framework for all the “ST” and “TG” forms will occur progressively (2023 and beyond) due to its complexity.

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

The CATDIS (catch distribution: 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, with a particular focus on the latest stock assessments of ICCAT using integrated stock synthesis models (SS3, Maunder and Punt, 2013). The Secretariat has updated the CATDIS from 1950 to 2021 with the most recent statistical information available. The newly CATDIS estimations were published on the ICCAT website on 31 January 2023 (reflecting in detail the T1NC catches also published in the same date). The CATDIS was used in the majority of the 2023 intersessional SCRS meetings. Vol. 48 of the Statistical Bulletin was also updated with the most recent CATDIS (maps) estimates of the period 1950-2021.

At the end of 2023, the Secretariat has planned to update the CATDIS for the period 1950-2022 with the latest T1NC and T2CE datasets, which will be adopted by the SCRS and the Commission during their 2023 annual meetings and publish it in January 2024 (Web and Statistical Bulletin Vol. 49). This approach had greatly benefited the 2022 and 2023 intersessional work of the species groups and the SCRS, and the same is expected for 2024 intersessional work.

Once again, the CATDIS has not included the estimates of four additional species: spearfish (SPF), blue shark (BSH), shortfin mako (SMA) and porbeagle (POR), due to the lack of sufficient information in T2CE for these four species (**Appendix 1**). However, some progress has been made on some data recoveries (e.g., the T2CE LL series of USA complemented now with sharks in the species catch composition), and new attempts should be made in the near future. The Secretariat intends to make an additional attempt to try to obtain the CATDIS for these three species using both Task 2 datasets (T2CE and T2SZ) of these three species. It is also working to improve further the CATDIS by separating the catch components (landings, and dead discards), and the trimesters into monthly estimations (work in progress).

### *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 types: T2SZ and T2CS) and the substitution tables used for the CAS estimates. CAS and catch-at-age (CAA) estimations were usually made for six major species (ALB, BFT, BET, YFT, SKJ, and SWO). During 2023, no new estimations of CAS were made by the Secretariat once they were not required by the SCRS species groups during the 2023 intersessional work. Only Panel 1 (in the second 2023 session) requested the latest BET CAS estimation (made in 2021 for the BET stock assessment and covering the period 1975-2019) to study some purse seine moratoria scenarios. It is unclear whether these estimations of CAS and CAA will be required in the future.

### *3.1.4 FAD forms*

In 2014, an electronic form (ST08-FadsDep) was created to collect 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. In addition to the information provided on the ST08 forms, CPCs are also requested to submit FAD Management Plans according to [Rec. 16-01](#), [Rec. 19-02](#) and [Rec. 22-01](#). Countries fishing for tropical tunas that have submitted information about their FAD fisheries and their FAD Management Plans, as well the ST08-FADsDep data for 2022 during the Reporting Period are summarized in **Appendix 2**. Associated with the tropical tunas purse seine fisheries, the ST07 form collected the information related to support vessels. **Appendix 5** shows a summary of the number of support vessels as reported by CPCs from 2010 to 2022.

## **3.2 FAD management plans**

The [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 2023, 18 CPCs provided Tropical tuna fishing management plans, of which 10 also provided FAD management plans (**Appendix 2, Table 1**). ST08-FadsDep forms were received from 18 CPCs. Of these, nine reported not using or deploying FADs. Following the request from the 2021 Commission Panel 1 intersessional meeting, historical data on FADs deployments were provided during the Reporting Period by 1 CPC with 2021 data using the ST08 eform (**Appendix 2, Table 2**).

#### 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 in support of 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 with the aim of making the best use of the available funds for science and data collection.

Since the last provision of advice by the SCRS in September 2022, the Secretariat provided support to a total 31 SCRS and Commission/SCRS online and in-person meetings.

In addition to the support provided to working groups and subcommittees, the Secretariat also produced a total of 22 SCRS documents and 7 presentations. The list of these documents is compiled in **Appendix 6**.

#### 5. Publications

##### 5.1 ICCAT series of periodic publications

For the current year, the Secretariat has continued the series of periodic publications developed throughout the history of ICCAT. **Table 19** shows the volumes of these series that were published in 2023. Due to the request from the Commission to reduce costs, since 2017 all ICCAT periodic publications are only published in electronic format and are all available for download on the ICCAT publications webpage.

All volumes of the Biennial Report have been published, including Volume 4 which was published for the first time in 2011, and which contains the reports issued by the Secretariat for the SCRS and the Commission, i.e. the Secretariat Report on Statistics and Coordination of Research, the Financial and Administrative Reports, and the ICCAT Secretariat Reports to the Conservation and Management Measures Compliance Committee (COC) and the Permanent Working Group for the Improvement of ICCAT Statistics and Conservation Measures (PWG).

Volume 48 of the Statistical Bulletin was published on 29 March 2023 as an electronic version. The current edition provides the catches and other statistics series for the period 1950 to 2022.

Given the Secretariat's workload and the request to reduce the publication time of the ICCAT Collective Volume of Scientific Papers and considering that a significant number of authors do not follow the publication guidelines provided, the SCRS agreed in 2014 that those papers not meeting the minimum standards would not be published. As a result, since 2017 the list of unpublished papers in the volume includes those withdrawn by the authors and those which failed to meet the minimum established publication standards. The Secretariat also adopted the necessary measures in 2017 to ensure that documents are published in electronic format soon after subcommittee and species group and working group meetings. As a result of these changes in the publication process, in late 2022 the Secretariat completed the publication of volume 79 (completed issues 1 to 6) and has already published most documents contained in issues 1 to 10 of volume 80 of the ICCAT Collective Volume of Scientific Papers.

##### 5.2 ICCAT Manual

Following the requests regarding the update and expansion of Chapter 2 of the ICCAT Manual, in 2021 the Secretariat hired experts to revise the current chapters for the following small tunas and shark species: bonito (*Sarda sarda*), bullet tuna (*Auxis rochei*), frigate tuna (*A. thazard*), king mackerel (*Scomberomorus cavalla*), little tunny (*Euthynnus alletteratus*), Spanish mackerel (*Scomberomorus maculatus*), blackfin tuna (*Thunnus atlanticus*), blue shark (*Prionace glauca*), shortfin mako (*Isurus oxyrinchus*), porbeagle (*Lamna nasus*), common thresher (*Alopias vulpinus*), bigeye thresher (*Alopias superciliosus*), oceanic whitetip (*Carcharhinus longimanus*), scalloped hammerhead (*Sphyrna lewini*), smooth hammerhead (*S. zygaena*) and great hammerhead (*S. mokarran*).

In addition, in 2021 new species chapters were prepared for the following small tunas and shark species: wahoo (*Acanthocybium solandri*), serra Spanish mackerel (*S. brasiliensis*), cero (*S. regalis*), plain bonito (*Orcynopsis unicolor*), silky shark (*C. falciformis*), longfin mako (*I. paucus*), crocodile shark (*Pseudocarcharias kamoharai*) and pelagic stingray (*Pteroplatytrygon violacea*). A new chapter for narrow-barred Spanish mackerel (*Scomberomorus commerson*) has been produced in 2022.

These chapters were revised and translated by the Secretariat in 2022. In addition, these chapters were reviewed by SCRS experts and adopted during the SCRS in 2022. Final revisions to the sub-chapters have now been completed and published on the [ICCAT website](#) throughout 2023.

### **5.3 ICCAT website**

The ICCAT website, in the three official languages of the Commission, continues to be updated on a regular basis to provide better service to users.

Integration into the database of the latest SCRS documents published on our webpage has been completed so that they can be located through the search engine of the ICCAT Collective Volume of Scientific Papers from 1973, using different parameters and criteria.

In collaboration with the IT service, web-based tools continue to be implemented and improved to mitigate vulnerabilities and threats to the ICCAT website.

One of the major tasks associated with the ICCAT website aims at the automatic and dynamic use of data from the IOMS system (details in point 3 of this report) using the IOMS public web services. This is a very long-term task (to be done in line with the progress of IOMS) and will be done in collaboration with the Department of Statistics. This year, initial work has started, consisting of experimental development (testing of various techniques and technologies) of web modules for consulting and extracting data directly from the IOMS public application programming interfaces (APIs) for automatic, real-time publication on the ICCAT website.

Several changes have been made to the source code of our website so that the information required by the user is displayed more efficiently, such as requests for information through our databases. New ways of viewing Task 1 data with dashboard tools or cartographic viewers have also been published, and others are being finalised others to represent conventional and electronic tagging data by species.

The necessary aesthetic remodelling of our website has continued. This top priority project aims to adapt the ICCAT website to the new needs and compatibility requirements of the new web search engines, to provide better service to ICCAT users.

## **6. ICCAT Scientific programmes**

The activities of the Atlantic-Wide Bluefin Research Programme (GBYP), Small Tunas Year Programme (SMTYP), the Shark Research and Data Collection Programme (SRDCP), the Enhanced Programme for Billfish Research (EPBR), Albacore Year Programme (ALBYP) and Swordfish Year Programme (SWOYP) are presented separately in reports to the SCRS (see section 11 and Appendices 6 to 11 of the 2023 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 auditory 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 past, during 2023 the Secretariat actively participated in several of the research programmes components.

## 7. SCRS research activities funded

1. Short-term contract extension for AOTTP awareness and tag recovery activities in Senegal;
2. Short-term contract for AOTTP awareness and tag recovery activities in Senegal;
3. Short-term contract extension for AOTTP awareness and tag recovery activities in Côte d'Ivoire;
4. Short-term contract for AOTTP awareness and tag recovery activities in Côte d'Ivoire;
5. Short-term contract for tagging activities in the North-West Atlantic following the closure of the Atlantic Ocean Tropical Tunas Tagging Programme (AOTTP);
6. Short-term contract for development of the western Atlantic skipjack management strategy evaluation;
7. Short-term contract for further development of the multi-stocks tropical tunas;
8. Short-term contract for investigation into bycatch estimation methodologies;
9. Short-term contract for ICCAT SMTYP for the biological samples collection for growth, maturity and genetics studies;
10. Short-term contract extension for collection of biological samples for growth study on billfish in the eastern Atlantic;
11. Short-term contract extension for ICCAT swordfish for growth, reproduction and genetics studies: biological samples collection and analysis;
12. Short-term contract extension for modelling approaches: support for the ICCAT North Atlantic swordfish MSE process;
13. Short-term contract extension for ICCAT North Atlantic albacore tuna reproductive biology study;
14. Short-term contract extension for ICCAT South Atlantic albacore tuna reproductive biology study;
15. Short-term contract for improvement of the North Atlantic albacore management strategy evaluation (MSE) framework: stock synthesis reference case;
16. Electronic PSAT tagging of Atlantic swordfish, Atlantic albacore, Atlantic pelagic sharks and Northern-eastern Atlantic billfishes;
17. Short-term contract for mitogenomics and nuclear-genome-wide single-nucleotide polymorphism genotyping to resolve the genetic population structure of Atlantic shortfin mako (*Isurus oxyrinchus*) and preliminary analysis of genetic population structure of Atlantic porbeagle (*Lamna nasus*);
18. Short-term contract for studying the genetic population structure of Atlantic porbeagle (*Lamna nasus*) by using nuclear-genome-wide single-nucleotide polymorphism genotyping;
19. Short-term contract for work supporting a quasi-quantitative risk assessment approach;
20. Short-term contract for the improvement of the North Atlantic albacore management strategy evaluation (MSE) framework;
21. Short-Term contract for modelling approaches: Support to Bluefin Tuna Stock Assessment (ICCAT GBYP 08/2022) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
22. Short-Term Contract for biological sampling of adults in farms (ICCAT GBYP 09/2022-B) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
23. Short-Term Contract for biological sampling and analysis (ICCAT GBYP 08/2022 of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
24. Short-Term Contract for development of the ICCAT electronic tags management system (ICCAT GBYP 11/2022) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
25. Short-Term Contract for biological sampling of adults in farms (ICCAT GBYP 09/2022-A) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
26. Short-Term Contract for GBYP Steering Committee external member (ICCAT GBYP 10/2022 of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
27. Short-Term Contract for GBYP aerial surveys data analyses (ICCAT GBYP 12/2022) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
28. Short-Term Contract for Modelling Approaches: Support to Bluefin Tuna Stock Assessment (ICCAT GBYP 03/2023) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
29. Short-Term Contract for Advice on the Close-Kin Mark-Recapture Workshop (ICCAT GBYP 01/2023) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);
30. Short-Term Contract for Pilot Study on Epigenetic Ageing Technique for Age Estimation of Atlantic Bluefin Tuna (ICCAT GBYP 02/2023) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 12);

31. Short-Term Contract (ICCAT GBYP 03/2023) for the Aerial Survey for the Monitoring of Bluefin Spawning Aggregations in the Mediterranean Sea (Area A) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 13);
32. Short-Term Contract (ICCAT GBYP 03/2023-B) for the aerial survey for the monitoring of bluefin spawning aggregations in the Mediterranean Sea (Areas C and E) of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 13);
33. Short-Term Contract for biological sampling and analysis (ICCAT GBYP 02/2023 of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP Phase 13);
34. Short-term contract for continuation of the work supporting a quasi-quantitative risk assessment approach.

## 8. Major statistical and IT tasks planned for 2023

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 2023 delineated the content of the future work to be presented at the 2023 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 2023 and beyond. The major priority tasks for 2022/2024 include:

- Upgrade all the ICCAT-DB system from MS-SQL server 2016 to MS-SQL server 2022;
- Replace the stand-alone MS-ACCESS Task 2 databases on the web by SQLite equivalent ones;
- 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 geographic information system (GIS) project (create a PostGIS server and 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.

Table 1. Task 1 fleet characteristics (form ST01-T1FC) submission status for 2022 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 2022 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 2022 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).

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

NOTES: NO FISHING ACTIVITY (flags in green, 4 flags): Nicaragua, Nigeria, Philippines, UK-Turks and Caicos, Uruguay, Bolivia, Guyana.  
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Netherlands, EU-Latvia, EU-Lithuania.  
 ERRORS/UNDER REVISION: Several flag CPCs (all orange cells in Tables 1 to 5).

Table 2. Task 1 nominal catch (form ST02-T1NC) submission status for 2022 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 2. Situation de la soumission des données de la prise nominale de la tâche 1 (formulaire ST02-T1NC) pour les données de 2022 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 soumise ou prise zéro).

Tabla 2. Estado de la presentación de los datos de captura nominal de Tarea 1 (formulario ST02-T1NC) para los datos de 2022 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): 2023-08-01														
			Tuna (major sp.)										Small tuna		Sharks (major sp.)		
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT	STgrp	BSH	POR	SMA	
CP	ALBANIA	Albania	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ALGERIE	Algerie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ANGOLA	Angola	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	BARBADOS	Barbados	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	BELIZE	Belize	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	BRAZIL	Brazil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CANADA	Canada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CAP-VERT	Cape Verde	-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
	CHINA PR.	China PR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CÔTE D'IVOIRE	Côte d'Ivoire	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CURAÇAO	Curaçao	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	EGYPT	Egypt	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	EL SALVADOR	El Salvador	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	EUROPEAN UNION	EU-Bulgaria	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Croatia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Cyprus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Denmark	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-España	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU-France	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Germany	-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-Greece	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Ireland	-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-Italy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Latvia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Lithuania	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Malta	1														
		EU-Netherlands	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Portugal	0	0	0	0	0	0		0	0	0	0		0		0
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon								-0.2					-0.2		
	GABON	Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GAMBIA	Gambia															
	GHANA	Ghana	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GRENADA	Grenada															
	GUATEMALA	Guatemala	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GUINEA BISSAU	Guinea Bissau															
	GUINEA ECUATORIAL	Guinea Ecuatorial	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GUINEE REP.	Guinée Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	HONDURAS	Honduras															
	ICELAND	Iceland			-0.2												
	JAPAN	Japan	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								
	LIBERIA	Liberia	-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
	LIBYA	Libya	-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
	MAROC	Maroc	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MAURITANIA	Mauritania	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NAMIBIA	Namibia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NICARAGUA	Nicaragua															
	NIGERIA	Nigeria															
	NORWAY	Norway	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PANAMA	Panama	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PHILIPPINES	Philippines															
	RUSSIA	Russian Federation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe		0		0	0	0	0	0	0	0	0	0	0	0	0
	SENEGAL	Senegal	1	1	1	1	1	1			1	1	1	1	1	1	1
	SIERRA LEONE	Sierra Leone															
	SOUTH AFRICA	South Africa	-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
	St VINCENT & GRENADINES	St Vincent and Grenadines	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SYRIA	Syria	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TRINIDAD & TOBAGO	Trinidad and Tobago	-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
	TUNISIE	Tunisie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TÜRKIYE	Türkiye	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	UNITED KINGDOM	Great Britain	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
		UK-British Virgin Islands															
		UK-Sta Helena	1	1	1	1	1	1	1	1	1	1	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	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
	Costa Rica	Costa Rica	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Guyana	Guyana															
	Suriname	Suriname	-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
NCO	Non-contracting parties	Gibraltar	-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
		ICCAT (RMA)			0												
		Sta Lucia	-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

NOTES: NO FISHING ACTIVITY (flags in green, 4 flags): Nicaragua, Nigeria, Philippines, UK-Turks and Caicos, Uruguay, Bolivia, Guyana.  
NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Netherlands, EU-Latvia, EU-Lithuania.  
ERRORS/UNDER REVISION: Several flag CPCs (all orange cells in Tables 1 to 5).



Table 3. Task 2 catch and effort (form ST03-T2CE) submission status for 2022 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 2022 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 soumise 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 2022 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): 2023-08-01									Small tuna			Sharks (major sp.)			
			Tuna (major sp.)									(any of 13 sp)			BSH POR SMA			
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT						
CP	ALBANIA	Albania			-0.2									0	0			
	ALGERIE	Algerie			0													
	ANGOLA	Angola																
	BARBADOS	Barbados	1	1		1	1	1		1	1	1	1	1	1	1	1	1
	BELIZE	Belize	1	1				1	1		1	1	1	1	1	1	1	1
	BRAZIL	Brazil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CANADA	Canada	1	1	1	1				1	1	1	1	1	1	1	1	1
	CAP-VERT	Cape Verde		0				0				0	0	0	0	0	0	0
	CHINA PR.	China PR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CÔTE D'IVOIRE	Côte d'Ivoire																
	CURAÇAO	Curaçao	1	1				1				1	1	1	1	1	1	1
	EGYPT	Egypt			-0.2													
	EL SALVADOR	El Salvador		1				1				1	1	1	1	1	1	1
	EUROPEAN UNION	EU-Bulgaria																
		EU-Croatia	1		1					1								
		EU-Cyprus	1		1			1		1								
		EU-Denmark																
		EU-España	-0.2	-0.2	-0.2		-0.2	-0.2		0	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
		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
		EU-Germany																
		EU-Greece	1		1					1								
		EU-Ireland	-0.2		-0.2					-0.2								
		EU-Italy	1		1					1								
		EU-Latvia																
		EU-Lithuania																
		EU-Malta	1		1					1								
		EU-Netherlands			1													
		EU-Portugal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon								1								
	GABON	Gabon																
	GAMBIA	Gambia																
	GHANA	Ghana																
	GRENADA	Grenada																
	GUATEMALA	Guatemala		1				1				1	1	1	1	1	1	1
	GUINEA BISSAU	Guinea Bissau																
	GUINEA ECUATORIAL	Guinea Ecuatorial																
	GUINÉE REP.	Guinée Rep		1				1				1	1	1	1	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
	KOREA REP.	Korea Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LIBERIA	Liberia																
	LIBYA	Libya			-0.2													
	MAROC	Maroc		1	1			1		1		1	1	1	1	1	1	1
	MAURITANIA	Mauritania																
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NAMIBIA	Namibia	-0.2	-0.2		-0.2		-0.2		-0.2		-0.2		-0.2		-0.2		-0.2
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway			1													
	PANAMA	Panama	1	1			1	1				1	1	1	1	1	1	1
	PHILIPPINES	Philippines																
	RUSSIA	Russian Federation						1										
	S. TOMÉ E PRÍNCIPE	S Tomé e Príncipe																
	SENEGAL	Senegal	1	1	1			1				1	1	1	1	1	1	1
	SIERRA LEONE	Sierra Leone																
	SOUTH AFRICA	South Africa	-0.2	-0.2		-0.2		-0.2	-0.2	-0.2		-0.2		-0.2		-0.2		-0.2
	St VINCENT & GRENADINES	St Vincent and Grenadines	1	1		1	1		1	1		1	1	1	1	1	1	1
	SYRIA	Syria			1													
	TRINIDAD & TOBAGO	Trinidad and Tobago	-0.2	-0.2			-0.2			-0.2		-0.2		-0.2		-0.2		-0.2
	TUNISIE	Tunisie			1													
	TÜRKIYE	Türkiye	1		1					1								
	UNITED KINGDOM	Great Britain	1	1	1													
		UK-Bermuda	1	1				1		1	1	1	1	1	1	1	1	1
		UK-British Virgin Islands						1										
		UK-Sta Helena		1				1				1	1	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	1	1
	URUGUAY	Uruguay																
	VENEZUELA	Venezuela	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
	Costa Rica	Costa Rica																
	Guyana	Guyana																
	Suriname	Suriname																

NOTES: NO FISHING ACTIVITY (flags in green, 4 flags): Nicaragua, Nigeria, Philippines, UK-Turks and Caicos, Uruguay, Bolivia, Guyana.  
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Netherlands, EU-Latvia, EU-Lithuania.  
 ERRORS/UNDER REVISION: Several flag CPCs (all orange cells in Tables 1 to 5).

Table 4. Task 2 size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2022 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 2022 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 2022 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): 2023-08-01															
Status	Party	Flag	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																
	ALGÉRIE	Algerie																
	ANGOLA	Angola																
	BARBADOS	Barbados																
	BELIZE	Belize	1	1								1			1		1	
	BRAZIL	Brazil	1	1											1			
	CANADA	Canada	1	-0.2	-0.2							1	-0.2	-0.2				1
	CAP-VERT	Cape Verde																
	CHINA PR.	China PR	1	1	1							1					1	
	CÔTE D'IVOIRE	Côte d'Ivoire																
	CURAÇAO	Curacao	0	0									0		0			
	EGYPT	Egypt																
	EL SALVADOR	El Salvador		1											1		1	
	EUROPEAN UNION	EU-Bulgaria																
		EU-Croatia																
		EU-Cyprus	1		1							1						
		EU-Denmark																
		EU-España	1	-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-France	1	1	-0.2	1	1	1	1			1	1	1	1	1	1	1
		EU-Germany																
		EU-Greece	1		1							1						
		EU-Ireland	1															
		EU-Italy	1		1							1			1			
		EU-Latvia																
		EU-Lithuania																
		EU-Malta			1							-0.2			1			
		EU-Netherlands																
		EU-Portugal	1	1	1							1			1	1	1	1
	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																
	HONDURAS	Honduras																
	ICELAND	Iceland																
	JAPAN	Japan				1								1		1		
	KOREA REP.	Korea Rep		1	1									1				
	LIBERIA	Liberia	1	1		1	1	1	1			1		1		1		
	LIBYA	Libya																
	MAROC	Maroc			1							1			1	1	1	
	MAURITANIA	Mauritania																
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NAMIBIA	Namibia	-0.2	-0.2								-0.2				-0.2		
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway				1												
	PANAMA	Panama		1										1		1		
	PHILIPPINES	Philippines																
	RUSSIA	Russian Federation													1	1		1
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe																
	SENEGAL	Senegal																
	SIERRA LEONE	Sierra Leone																
	SOUTH AFRICA	South Africa	1	1								1			1			1
	St VINCENT & GRENADINES	St Vincent and Grenadines	1	1								1						
	SYRIA	Syria																
	TRINIDAD & TOBAGO	Trinidad and Tobago			-0.2								-0.2		-0.2			
	TUNISIE	Tunisie				1						1						
	TÜRKIYE	Türkiye										1						
	UNITED KINGDOM	Great Britain																
		UK-Bermuda																
		UK-British Virgin Islands																
		UK-Sta Helena		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		0			1	0						0		0		
NCC	Bolivia	Bolivia																
	Chinese Taipei	Chinese Taipei	1	1		1	1				1	1			1			1
	Costa Rica	Costa Rica																
	Guyana	Guyana																
	Suriname	Suriname																1

NOTES: NO FISHING ACTIVITY (flags in green, 4 flags): Nicaragua, Nigeria, Philippines, UK-Turks and Caicos, Uruguay, Bolivia, Guyana.  
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Netherlands, EU-Latvia, EU-Lithuania.  
 ERRORS/UNDER REVISION: Several flag CPCs (all orange cells in Tables 1 to 5).

Table 5. Consolidated view of the Report Cards for 2022 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 2022 (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 2022 (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	1	1	-0.2		
	ALGÉRIE	Algerie	1	1	0		
	ANGOLA	Angola	1	1			
	BARBADOS	Barbados	1	1	1	1	
	BELIZE	Belize	1	1	1	1	
	BRAZIL	Brazil	1	1	1	1	
	CANADA	Canada	0	1	1	-0.2	
	CAP-VERT	Cape Verde	1	-0.2	0	1	
	CHINA PR.	China PR	1	1	1	1	
	CÔTE D'IVOIRE	Côte d'Ivoire		1			
	CURAÇAO	Curaçao		1	1	0	
	EGYPT	Egypt	1	1	-0.2		
	EL SALVADOR	El Salvador	1	1	1	1	
	EUROPEAN UNION	EU-Bulgaria	EU-Bulgaria	1	1		
		EU-Croatia	EU-Croatia	1	1	1	1
		EU-Cyprus	EU-Cyprus	1	1	1	1
		EU-Denmark	EU-Denmark	1	1		
		EU-España	EU-España	-0.2	0	-0.2	-0.2
		EU-France	EU-France	-0.2	1	-0.2	-0.2
		EU-Germany	EU-Germany		-0.2		
		EU-Greece	EU-Greece	1	1	1	1
		EU-Ireland	EU-Ireland	-0.2	-0.2	-0.2	1
		EU-Italy	EU-Italy	1	1	1	1
		EU-Latvia	EU-Latvia	1	1		
		EU-Lithuania	EU-Lithuania	1	1		
		EU-Malta	EU-Malta	-0.2	1	1	-0.2
		EU-Netherlands	EU-Netherlands		1	1	
		EU-Portugal	EU-Portugal	0	0	0	1
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon	1	-0.2	1		
	GABON	Gabon		0			
	GAMBIA	Gambia					
	GHANA	Ghana	1	1			
	GRENADA	Grenada					
	GUATEMALA	Guatemala	1	1	1	1	
	GUINEA BISSAU	Guinea Bissau					
	GUINEA ECUATORIAL	Guinea Ecuatorial		1			
	GUINÉE REP.	Guinée Rep	1	1	1		
	HONDURAS	Honduras					
	ICELAND	Iceland	0	-0.2	0		
	JAPAN	Japan	1	1	1	1	
	KOREA REP.	Korea Rep	-0.2	1	1	1	
	LIBERIA	Liberia	1	-0.2		1	
	LIBYA	Libya	-0.2	-0.2	-0.2		
	MAROC	Maroc	1	1	1	1	
	MAURITANIA	Mauritania		1			
MEXICO	Mexico	1	1	1	1		
NAMIBIA	Namibia		0	-0.2	-0.2		
NICARAGUA	Nicaragua						
NIGERIA	Nigeria						
NORWAY	Norway	1	1	1	1		
PANAMA	Panama	1	1	1	1		
PHILIPPINES	Philippines						
RUSSIA	Russian Federation	1	1	1	1		
S. TOMÉ E PRINCIPE	S Tomé e Príncipe		0				
SENEGAL	Senegal	-0.2	1	1			
SIERRA LEONE	Sierra Leone						
SOUTH AFRICA	South Africa		-0.2	-0.2	1		
St VINCENT & GRENADINES	St Vincent and Grenadines		1	1	1		
SYRIA	Syria	1	1	1			
TRINIDAD & TOBAGO	Trinidad and Tobago	1	-0.2	-0.2	-0.2		
TUNISIE	Tunisie	-0.2	1	1	1		
TURKEY	Türkiye	1	1	1	1		
UNITED KINGDOM	Great Britain	1	1	1			
	UK-Bermuda	1	1	1			
	UK-British Virgin Islands	1	1				
	UK-Sta Helena	1	1	1	1		
	UK-Turks and Caicos						
UNITED STATES	USA	-0.2	1	1	1		
URUGUAY	Uruguay						
VENEZUELA	Venezuela	1	1	1	0		
NCC	Bolivia	Bolivia					
	Chinese Taipei	Chinese Taipei	1	1	1	1	
	Costa Rica	Costa Rica	1	1			
	Guyana	Guyana					
	Suriname	Suriname	1	-0.2	1	1	

NOTES: NO FISHING ACTIVITY (flags in green, 4 flags): Nicaragua, Nigeria, Philippines, UK-Turks and Caicos, Uruguay, Bolivia, Guyana.  
 NO TARGETING ACTIVITIES (some by-catch): EU-Denmark, EU-Germany, EU-Netherlands, EU-Latvia, EU-Lithuania.  
 ERRORS/UNDER REVISION: Several flag CPCs (all orange cells in Tables 1 to 5).

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: 2022)**

FisheryID	Spc. Group	Species	Species/stock	SCORES (by time series)			N. flag fisheries ranked			Change (%) against 1992-21 (30 years)
				30 years (1993-22)	20 years (2003-22)	10 years (2013-22)	30 years (1993-22)	20 years (2003-22)	10 years (2013-22)	
1	Temperate tunas	ALB	ALB-N stock	7.23	8.26	7.85	12	12	10	0%
2			ALB-S stock	6.01	6.20	6.61	10	10	8	0%
3			ALB-M stock	2.62	4.47	5.89	12	9	7	4%
4		BFT	BFT-E stock (ATE region)	6.14	7.37	8.61	11	9	10	4%
5			BFT-E stock (MED region)	3.90	5.02	6.07	26	20	16	2%
6			BFT-W stock	8.67	9.23	9.40	9	7	6	0%
7	Tropical tunas	BET	BET-A stock (AT + MD)	6.54	7.34	7.45	30	28	29	-1%
8		YFT	YFT-E region	6.61	7.65	7.52	23	18	16	-1%
9			YFT-W region	4.85	5.27	5.40	25	24	22	1%
10		SKJ	SKJ-E stock	7.01	7.60	7.41	18	16	15	0%
11			SKJ-W stock	4.44	4.00	3.87	5	5	5	11%
12	SWO & billfish	SWO	SWO-N stock	8.08	8.61	8.36	11	11	11	0%
13			SWO-S stock	7.15	7.21	7.13	9	9	7	-1%
14			SWO-M stock	4.92	5.68	7.60	10	10	7	1%
15		BUM	BUM-A stock (AT + MD)	3.91	3.81	3.40	33	32	34	0%
16		WHM	WHM-A stock (AT + MD)	5.31	5.31	4.40	17	17	14	-1%
17		SAI	SAI-E stock	3.08	3.51	3.01	15	13	12	1%
18			SAI-W stock	3.86	4.09	4.44	18	15	11	-2%
19		SPF	SPF-E stock	4.33	4.88	3.83	4	3	2	3%
20			SPF-W stock	3.29	3.71	2.33	6	6	5	2%
21	Major shark species	BSH	BSH-N region	4.56	5.72	6.55	6	5	4	5%
22			BSH-S region	5.57	7.07	6.93	6	6	6	4%
23		POR	POR-ANE stock	0.49	0.89	0.92	9	13	8	3%
24			POR-ANW stock	3.34	2.94	2.05	5	7	7	5%
25			POR-ASE stock	0.70	1.13	1.67	4	3	2	0%
26			POR-ASW stock	0.48	0.85	0.50	6	4	1	9%
27		SMA	SMA-N region	4.44	5.72	6.32	6	7	7	3%
28			SMA-S region	5.45	7.38	7.05	7	7	6	9%
29	Small tuna species	BLF	ATL	3.02	3.67	3.78	15	10	9	14%
30		BLT	ATL	1.64	1.94	1.74	7	7	8	8%
31			MED	0.74	1.24	2.52	18	16	13	5%
32		BON	ATL	2.30	2.68	2.72	30	24	17	6%
33			MED	0.70	1.12	1.14	9	9	8	-15%
34		BOP	ATL	1.03	1.33	0.42	4	4	3	3%
35			MED	0.00	0.00	0.00	5	3	2	
36		BRS	ATL	0.92	1.83	0.67	3	2	2	0%
37		CER	ATL	0.00	0.67	0.80	1	5	4	
38		COM	MED	0.00	0.00	0.00	2	2	2	
39		FRI	ATL	4.86	5.45	5.44	25	22	19	4%
40		KGM	ATL	1.01	1.46	1.47	7	6	5	4%
41		LTA	ATL	4.01	4.91	4.70	30	22	19	1%
42			MED	0.81	1.36	1.47	17	14	10	5%
43		MAW	ATL	1.17	1.26	0.86	16	11	9	-8%
44		SSM	ATL	0.00	0.00	0.00	4	3	2	
45		WAH	ATL	0.98	1.37	1.41	35	24	16	3%

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	Bahamas	Barbados	Belize	Brasil	Canada	Colombia	Côte D'Ivoire	Cuba	Dominican Republic	EU.Cyprus	EU.Denmark	EU.España	EU.France	EU.Ireland	EU.Portugal	EU.Sweden	Gambia	Ghana	Japan	Maroc	Mexico	Norway	Puerto Rico		Senegal	Serbia & Montenegro	Sierra Leone	U.S.A.	UK.Sta Helena	Venezuela	United Kingdom	US Virgin Islands	UNCL.FLEETS					
Recovered by													1																						3	4			
Albania													1																							1	1		
Algerie													1																								1	1	
Belize				26																																	26	26	
Brasil												1																									1	1	
Canada						9																													4	13	13		
Côte D'Ivoire				4			3							1																							8	8	
Dominican Republic									1																		1										2	2	
EU.España					2	2	2					1	21	5	9	1											3						84	10	140	140			
EU.France						1	4							3																						9	9		
EU.Greece																		1																			1	1	
EU.Ireland													1																								1	1	
EU.Italy													1																								1	2	
EU.Malta						1						2	8	7	8												1						6	8	41	41			
EU.Portugal															1	2	1																2	1	7	7			
Japan													1																								1	1	
Maroc												2	1		1							1															7	7	
Montenegro																																			1		1	1	
Senegal																						1				48											49	49	
Serbia & Montenegro										1																												1	1
Tunisie						1						4	4		1												1						1			4	16	16	
U.S.A.						1																					37						1				39	39	
UK.Sta Helena																												42									42	42	
United Kingdom																																3					3	3	
UNCL.FLEETS												1																					6				7	7	
<b>Total recovered</b>	0	0	0	30	2	15	0	9	0	1	1	5	39	23	20	2	1	1	0	0	2	0	0	0	48	0	0	44	43	0	104	0	32	422	422				
<b>Not Recovered</b>	1	7	1	10	1	127	1	4	3			174	466	39	18	3	48	7	25	1	1	5	11	1	9	2	1	1130	1000	2	2416	2	3	5519	5519				
<b>Total</b>	1	7	1	40	3	142	1	13	3	1	1	179	505	62	38	5	49	8	25	1	3	5	11	1	57	2	1	1174	1043	2	2520	35	5941	5941					

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	32851	32900	50	2022-10-24	CSIC	Pablo Arechavala López	EU.ESPAÑA
BYP	87151	87175	25	2022-10-24	CSIC	Pablo Arechavala López	EU.ESPAÑA
SEC	50750	50849	100	2023-01-24	Ministerio de Educación y Ciencia	Salvador García Barcelona	EU.ESPAÑA
BYP	87176	88175	1000	2023-05-10	SABS/Large Pelagics Group	Alex Hanke	CANADA
ATP	90650	90699	50	2023-06-29	IPMA	Rui Coelho	EU.PORTUGAL
ATP	91800	91899	100	2023-06-29	IPMA	Rui Coelho	EU.PORTUGAL
BYP	88176	88675	500	2023-07-12	Cefas Laboratory	David Righton	UNITED KINGDOM
BYP	32901	32950	50	2023-07-12	FIPSAS	Ana María Beltrano	EU.ITALY
BYP	32951	33050	100	2023-08-30	Havsfiske laboratoriet	Sundelöf Andreas	EU.SWEDEN
BYP	88676	88775	100	2023-08-29	Technical University of Denmark	Kim Aarestrup	EU.DENMARK

Table 9. Summary of 2022 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 2022 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 2022 de los observadores nacionales (formulario ST09) facilitada durante el periodo de comunicación (incluidos los descartes) por CPC y grupos

Values	FlagCode	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
<b>Number of live discards</b>	MAR	5			5					
	BLZ	147	3	8	4	4	4			
	BRA	329	8	112	154	110	58	31	2	1
	CAN	40			54	5				
	CHN	18	2	7	5	16	10	3	1	2
	CUW	42	8	3	2	70	55	4		
	EGY	1								
	EU-CYP	16			3	6	4	4		
	EU-ESP	899	636	132	255	845	3042	174	6	3
	EU-FRA	3813	1157	4	49	718	3484	175		
	EU-GRC	102			7	8				
	EU-HRV	320	10		24	28	4	20		
	EU-IRL	1								
	EU-MLT	160								
	EU-PRT	294		159	306	66	45	9		
	GTM	114	42	2	2	174	279	32		1
	JPN	48	4	11	27	21	19	2	2	
	KOR	26	1	37	33	7	26		17	
	MEX	10	2	1	3	4	1			
	NOR	2								
	PAN	661	288	48	13	390	1730	74		1
	RUS	12	48		24	12				
	SLV	171	174		5	221	1128	76		
	TAI	254	33	53	92	62	82			
	TUN	15								
	UK-BMU	4			1	2	1			
	UK-SHN	25								
	USA	134	23	37	41	120	34	4		5
	ZAF					5		9	10	
	EU-ITA	39								
	VEN	27	3							
<b>Number of dead discards</b>	MAR	5			5					
	BLZ	147	3	8	4	4	4			
	BRA	329	8	112	154	110	58	31	2	1
	CAN	40			54	5				
	CHN	18	2	7	5	16	10	3	1	2
	CUW	42	8	3	2	70	55	4		
	EGY	1								
	EU-CYP	16			3	6	4	4		
	EU-ESP	899	636	132	255	845	3042	174	6	3
	EU-FRA	3813	1157	4	49	718	3484	175		
	EU-GRC	102			7	8				
	EU-HRV	320	10		24	28	4	20		
	EU-IRL	1								
	EU-MLT	160								
	EU-PRT	294		159	306	66	45	9		
	GTM	114	42	2	2	174	279	32		1
	JPN	48	4	11	27	21	19	2	2	
	KOR	26	1	37	33	7	26		17	
	MEX	10	2	1	3	4	1			
	NOR	2								
	PAN	661	288	48	13	390	1730	74		1
	RUS	12	48		24	12				
	SLV	171	174		5	221	1128	76		
	TAI	254	33	53	92	62	82			
	TUN	15								
	UK-BMU	4			1	2	1			
	UK-SHN	25								
	USA	134	23	37	41	120	34	4		5
	ZAF					5		9	10	
	EU-ITA	39								
	VEN	27	3							
<b>Number discards of unknown</b>	MAR	5			5					
	BLZ	147	3	8	4	4	4			
	BRA	329	8	112	154	110	58	31	2	1
	CAN	40			54	5				
	CHN	18	2	7	5	16	10	3	1	2
	CUW	42	8	3	2	70	55	4		
	EGY	1								
	EU-CYP	16			3	6	4	4		
	EU-ESP	899	636	132	255	845	3042	174	6	3
	EU-FRA	3813	1157	4	49	718	3484	175		
	EU-GRC	102			7	8				
	EU-HRV	320	10		24	28	4	20		
	EU-IRL	1								
	EU-MLT	160								
	EU-PRT	294		159	306	66	45	9		
	GTM	114	42	2	2	174	279	32		1
	JPN	48	4	11	27	21	19	2	2	
	KOR	26	1	37	33	7	26		17	
	MEX	10	2	1	3	4	1			
	NOR	2								
	PAN	661	288	48	13	390	1730	74		1
	RUS	12	48		24	12				
	SLV	171	174		5	221	1128	76		
	TAI	254	33	53	92	62	82			
	TUN	15								
	UK-BMU	4			1	2	1			
	UK-SHN	25								
	USA	134	23	37	41	120	34	4		5
	ZAF					5		9	10	
	EU-ITA	39								
	VEN	27	3							





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	Quantity reported	Flag code													Grand Total	
		BRA	CHN	CUW	EU-CYP	EU-ESP	EU-FRA	EU-HRV	EU-PRT	GTM	JPN	PAN	SLV	USA		ZAF
Caretta caretta	Sum of NoDD	2		0	0	0	0	0	3	0	0	0	0	0	0	5
	Sum of NoDL	49		1	1	55	6	18	6	1	1	19	38	1	7	203
	Sum of unknown fate	0		0	0	36	0	8	0	0	0	0	0	0	0	44
Chelonia mydas	Sum of NoDD				0	0	0		0			0	0		0	0
	Sum of NoDL				5	4	9		1		12	4		1		36
	Sum of unknown fate				0	0	0		0		0	0		0		0
Cheloniidae	Sum of NoDD			0		2	0		0	0		0				2
	Sum of NoDL			2		41	1		16	1		3				64
	Sum of unknown fate			0		0	0		0	0		0				0
Dermochelys coriacea	Sum of NoDD	0	1			0	0		0			0	0	0	0	1
	Sum of NoDL	1	21			8	4		3			1	3	3	1	45
	Sum of unknown fate	0	0			0	0		0			0	0	0	0	0
Eretmochelys imbricata	Sum of NoDD					0	0					0				0
	Sum of NoDL					10	1					10				21
	Sum of unknown fate					0	0					0				0
Lepidochelys kempii	Sum of NoDD					0							1			1
	Sum of NoDL					1							2			3
	Sum of unknown fate					0							0			0
Lepidochelys olivacea	Sum of NoDD	0	0	0		2	0		1		0	0				3
	Sum of NoDL	4	1	1		101	265		27		66	39				504
	Sum of unknown fate	0	0	0		0	0		0		0	0				0
<b>Total Sum of NoDD</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>12</b>	
<b>Total Sum of NoDL</b>	<b>54</b>	<b>22</b>	<b>4</b>	<b>6</b>	<b>220</b>	<b>286</b>	<b>18</b>	<b>9</b>	<b>45</b>	<b>2</b>	<b>108</b>	<b>89</b>	<b>4</b>	<b>9</b>	<b>876</b>	
<b>Total Sum of unknown fate</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	

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.

		Flag code						Grand Total
		BRA	CHN	EU-ESP	JPN	KOR	ZAF	
Calonectris diomedea	Sum of NoDD				0			0
	Sum of NoDL				27			27
	Sum of unknown fate				39			39
Diomedidae	Sum of NoDD		0					0
	Sum of NoDL		0					0
	Sum of unknown fate		2					2
Fulmarus glacialis	Sum of NoDD					2		2
	Sum of NoDL					0		0
	Sum of unknown fate					0		0
Larus audouinii	Sum of NoDD				0			0
	Sum of NoDL				1			1
	Sum of unknown fate				0			0
Macronectes halli	Sum of NoDD						1	1
	Sum of NoDL						0	0
	Sum of unknown fate						0	0
Phoebastria fusca	Sum of NoDD						7	7
	Sum of NoDL						0	0
	Sum of unknown fate						0	0
Procellaria aequinoctialis	Sum of NoDD							3
	Sum of NoDL							0
	Sum of unknown fate							0
Procellaria conspicillata	Sum of NoDD							2
	Sum of NoDL							0
	Sum of unknown fate							0
Puffinus gravis	Sum of NoDD			5		3		8
	Sum of NoDL			0		0		0
	Sum of unknown fate			0		0		0
Puffinus griseus	Sum of NoDD						1	1
	Sum of NoDL						0	0
	Sum of unknown fate						0	0
Puffinus mauretanicus	Sum of NoDD				0			0
	Sum of NoDL				3			3
	Sum of unknown fate				7			7
Thalassarche cauta	Sum of NoDD						1	6
	Sum of NoDL						0	1
	Sum of unknown fate						0	0
Thalassarche chrysostoma	Sum of NoDD						11	11
	Sum of NoDL						0	0
	Sum of unknown fate						0	0
Thalassarche melanophrys	Sum of NoDD						11	11
	Sum of NoDL						0	1
	Sum of unknown fate						0	0
<b>Total Sum of NoDD</b>		<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>34</b>	<b>8</b>	<b>52</b>
<b>Total Sum of NoDL</b>		<b>0</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>33</b>
<b>Total Sum of unknown fate</b>		<b>2</b>	<b>0</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>

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 déclarées 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.

		BRA	CHN	EU-ESP	GTM	PAN	USA	Grand Total
Globicephala melas	Sum of NoDD				0		0	0
	Sum of NoDL				0		10	10
	Sum of unknown fate				1		0	1
Grampus griseus	Sum of NoDD		0	0				0
	Sum of NoDL		1	0				1
	Sum of unknown fate		0	1				1
Megaptera novaeangliae	Sum of NoDD					0		0
	Sum of NoDL					1		1
	Sum of unknown fate					0		0
Pseudorca crassidens	Sum of NoDD	0					0	0
	Sum of NoDL	1					1	2
	Sum of unknown fate	0					0	0
Stenella coeruleoalba	Sum of NoDD			0				0
	Sum of NoDL			0				0
	Sum of unknown fate			1				1
Stenella longirostris	Sum of NoDD		1					1
	Sum of NoDL		0					0
	Sum of unknown fate		0					0
<b>Total Sum of NoDD</b>		<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Total Sum of NoDL</b>		<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>14</b>
<b>Total Sum of unknown fate</b>		<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>

Table 14. Historical revisions to Task 1 nominal catch (t), by flag, species and year, which have been integrated into the ICCAT-DB system (with an SCRS document) during the Reporting Period.  
 Tableau 14. Révisions historiques de la prise nominale de la tâche 1 (t) par pavillon, espèce et année, qui ont été intégrées dans le système ICCAT-DB (avec un document SCRS) pendant la période de déclaration.  
 Tabla 14. Revisiónes históricas de la captura nominal de Tarea 1 (t) por pabellón, especie y año, que han sido integradas en el sistema de bases de datos de ICCAT (con un documento SCRS) durante el periodo de comunicación.

PartyStatus	PartyName	FlagName	SpeciesGrp	Species	Stock	CatchSource	decade/year																	Notes									
							1990	2000										2010															
							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		
CP	BELIZE	Belize	4-Sharks (major)	BSH	ATS	Estimated														99	148										SG-SHK revision <b>ADOPTED</b>		
	BRAZIL	Brazil	1-Tuna (major sp.)	ALB	ATN	Estimated																									BRA stock correction (ALB data prep meeting) <b>ADOPTED</b>		
			4-Sharks (major)	BSH	ATS	Estimated																									SG-SHK revision <b>ADOPTED</b>		
	CHINA PR.	China PR	4-Sharks (major)	BSH	ATN	Estimated																											
					ATS	Estimated																											
	EUROPEAN UNION	EU-France	4-Sharks (major)	BSH	ATN	Estimated																											
					MED	Estimated																											
		EU-Ireland	4-Sharks (major)	BSH	ATN	Estimated																											
		EU-Italy	2-Tuna (small)	BLT	MED	Estimated																									SG-SMT species reclassification (errors) <b>ADOPTED</b>		
					BON	Estimated																											
					LTA	Estimated																											
		EU-Portugal	4-Sharks (major)	BSH	MED	Estimated																									SG-SHK revision <b>ADOPTED</b>		
					ATN	Estimated																											
	MAROC	Maroc	4-Sharks (major)	BSH	ATN	Reported																									Maroc historical recovery ( <b>ADOPTED</b> by SG-SHK )		
	MEXICO	Mexico	4-Sharks (major)	BSH	ATN	Estimated																									SG-SHK revision <b>ADOPTED</b>		
	PANAMA	Panama	1-Tuna (major sp.)	ALB	ATN	Estimated																									BRA stock correction (ALB data prep meeting) <b>ADOPTED</b>		
					ATS	Estimated																											
			4-Sharks (major)	BSH	ATN	Estimated																									SG-SHK revision <b>ADOPTED</b>		
	S. TOMÉ E PRINCIPE	S Tomé e Príncipe	4-Sharks (major)	BSH	ATN	Estimated																											
	SENEGAL	Senegal	4-Sharks (major)	BSH	ATN	Estimated																											
					ATS	Estimated																											
	TRINIDAD & TOBAGO	Trinidad and Tobago	4-Sharks (major)	BSH	ATN	Estimated																											
					SMA	Estimated																											
			5-Sharks (other)	SKH	A+M	Estimated																											
	UNITED KINGDOM	UK-Bermuda	4-Sharks (major)	BSH	ATN	Estimated																											
	UNITED STATES	USA	4-Sharks (major)	BSH	ATN	Estimated																											
	VENEZUELA	Venezuela	1-Tuna (major sp.)	SAI	ATW	Reported																									VEN GILL/LL data recovery ( <b>ADOPTED</b> by SG-BL)		
			4-Sharks (major)	BSH	ATN	Reported																									VEN GILL/LL data recovery ( <b>ADOPTED</b> by SG-SHK)		
NCC	Chinese Taipei	Chinese Taipei	4-Sharks (major)	BSH	ATN	Estimated																									TAI LL stock split by SG-SHK ( <b>ADOPTED</b> )		
					ATS	Estimated																											
NCO	Non-contracting parties	Palestine	2-Tuna (small)	BLT	MED	Reported																									BLT data recovery (SCRS/2023/027) <b>ADOPTED</b> by SG-SMT		
					COM	Reported																									COM data recovery (SCRS/2023/026) <b>ADOPTED</b> by SG-SMT		

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

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

FlagName	SpeciesGrp	Species	GearGrp	FleetCode	decade/year					Remarks
					2010	2020	2020	2020		
					2017	2018	2019	2020	2021	
Ghana	1-Tuna (major sp.)	BET	PS	GHA-GH-ETRO				296		GHA PS catches from vessels with a trip between 2021 and 2022 (should be split into 2021 and 202 - need GHA help)
		SKJ	PS	GHA-GH-ETRO				5197		
		YFT	PS	GHA-GH-ETRO				1153		
	3-Tuna (other)	TUN	PS	GHA-GH-ETRO				161		Similar cases have happened in the last 5 years <b>(TO BE SOLVED in 2024)</b>
Mauritania	2-Tuna (small)	FRI	GN	MRT	2	2	1			Mauritanea catches already reported in the past (in T1NC) without any changes.  <b>DISCARDED</b> (same data)
			TW	MRT	309	360	394			
		BON	GN	MRT	42	49	20			
			LL	MRT	8	9	4			
		LTA	TW	MRT	1496	1742	1902			
			TW	MRT	774	901	984			
		MAW	GN	MRT	69	81	33			
			LL	MRT	95	110	46			
		WAH	PS	MRT	0	0	0			
			GN	MRT	7	8	3			
LL	MRT		108	126	52					
		PS	MRT	4156	4841	2651				



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	
Belize	LL	BLZ	mm	5x5	LW					1	1	BLZ revision to include HOOKS in the effort (SCRS request): <b>ADOPTED</b>  Data revision requested by the Commission (Rec. 2022-01 para's 31 & 39) - T2CE ETRO fisheries (PS & BB) datasets with Effort in "Number of sets": <b>ADOPTED</b>  Details presented to PA1 and SG-TRO in 2023 intersessional meetings (PA1_OCT_06/i2023)
	PS	BLZ-BZ-ETRO	mm	1x1	LW					1	1	
Curaçao	PS	CUW-CW-ETRO	mm	1x1	LW				1	1	1	
El Salvador	PS	SLV-SV-ETRO	mm	1x1	LW				1	1	1	
EU-España	BB	EU.ESP-ES-ETRO	mm	1x1	LW	1	1	1	1	1	1	
	PS	EU.ESP-ES-ETRO	mm	1x1	LW	1	1	1	1	1	1	
Guatemala	PS	GTM-GT-ETRO	mm	1x1	LW						1	
Panama	PS	PAN-PA-ETRO	mm	1x1	LW				1	1	1	
Senegal	BB	SEN-SN-ETRO	mm	1x1	LW			1	1	1	1	
	PS	SEN-SN-ETRO	mm	1x1	LW			1	1	1	1	





Table 19. Volumes published during the Reporting Period, within the ICCAT series of periodic publications.

Tableau 19. Volumes publiés pendant la période de déclaration, dans les séries de publications périodiques de l'ICCAT.

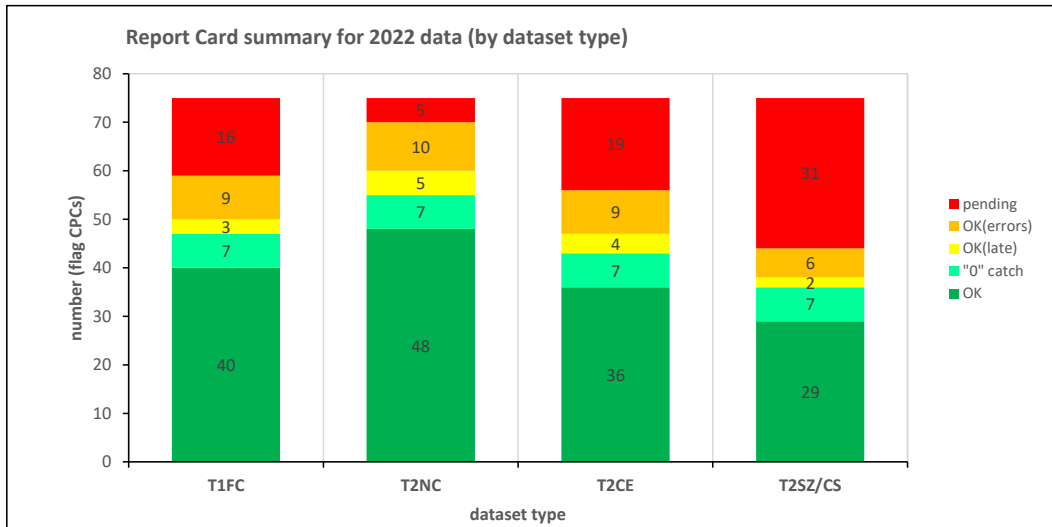
Tabla 19. Volúmenes publicados durante el periodo de comunicación dentro de las series de publicaciones periódicas de ICCAT.

Publication			Period	Format			Content
Name	Vol. / Chapter #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	79		2022			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Collect. Vol. Sci. Pap.	80		2023			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones (tomos 1-10)
ICCAT Manual	Chapter 2		2022-2023			√	Updates made to several species sub-chapters and new sub-chapters produced
Informe Bienal	2022-2023 (Part I)	1	2022			√	Report of the 23th Special Meeting of the Commission
		2	2022			√	Informe del SCRS
		3	2022			√	Informes anuales
		4	2022			√	Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al PWG)
Statistical bulletin / Boletín estadístico / Bulletin statistique	48		1950-2021			√	Estadísticas ICCAT (publicado el 29 Marzo del 2023)
Newsletter	25		Sept. 2022			√	Noticias
	36		Feb. 2023			√	Noticias

Figure 1. Summary of ICCAT CPC reporting status on Task 1/2 for 2022 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 2022 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 2022 (cubre toda la información enviada durante el periodo de comunicación).



As of 2023-09-10 (upper figure)

Values	Rep. status	Dataset type			
		T1FC	T2NC	T2CE	T2SZ/CS
number	OK	40	48	36	29
	"0" catch	7	7	7	7
	OK(late)	3	5	4	2
	OK(errors)	9	10	9	6
	pending	16	5	19	31
	TOTAL	75	75	75	75
%	OK	53%	64%	48%	39%
	"0" catch	9%	9%	9%	9%
	OK(late)	4%	7%	5%	3%
	OK(errors)	12%	13%	12%	8%
	pending	21%	7%	25%	41%

SCRS2023

Values	Rep. status	Dataset type			
		T1FC	T2NC	T2CE	T2SZ/CS
number	OK	40	45	34	29
	"0" catch	4	4	4	4
	OK(late)	2	1	2	2
	OK(errors)	9	13	11	6
	pending	20	12	24	34
	TOTAL	75	75	75	75
%	OK	53%	60%	45%	39%
	"0" catch	5%	5%	5%	5%
	OK(late)	3%	1%	3%	3%
	OK(errors)	12%	17%	15%	8%
	pending	27%	16%	32%	45%

## 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 (1993 to 2022). 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, pêcherie principale (combinaisons pavillon-engin classées par ordre d'importance) et année (1993 à 2022). 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 (1993 a 2022). 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-E region</a>
9	<a href="#">YFT-W region</a>
10	<a href="#">SKJ-E stock</a>
11	<a href="#">SKJ-W stock</a>
12	<a href="#">SWO-N stock</a>
13	<a href="#">SWO-S stock</a>
14	<a href="#">SWO-M stock</a>
15	<a href="#">BUM-A stock (AT + MD)</a>
16	<a href="#">WHM-A stock (AT + MD)</a>
17	<a href="#">SAI-E stock</a>
18	<a href="#">SAI-W stock</a>
19	<a href="#">SPF-E stock</a>
20	<a href="#">SPF-W stock</a>
21	<a href="#">BSH-N region</a>
22	<a href="#">BSH-S region</a>
23	<a href="#">POR-NE region</a>
24	<a href="#">POR-NW region</a>
25	<a href="#">POR-SE region</a>
26	<a href="#">POR-SW region</a>
27	<a href="#">SMA-N region</a>
28	<a href="#">SMA-S region</a>

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

as of 2023-10-14

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

Table 1. ALB-N stock

		T1 Total	38135	35163	38377	28803	29023	25746	34549	33123	26252	22716	25567	25957	35318	36963	21991	20483	15391	19411	19989	25432	24671	26638	25635	30400	28475	29786	34922	31274	31391	31654																																											
Score:	7.235																																																																										
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum																																					
ALB	ATN	CP	EU-España	BB	t1	12277	11041	9953	9640	9401	7346	8448	10774	4929	4712	7325	7893	10067	14182	8375	7403	4940	5841	4676	7753	4473	4740	8353	13394	9687	10836	10203	10268	11215	10801	1	30.6%	31%																																					
ALB	ATN	CP	EU-España	TR	t1	6094	5952	10225	6649	7864	5834	6829	5013	4245	3976	5193	7477	10165	10277	6089	5233	4437	7009	3564	5833	5864	6651	5596	3559	4163	4806	6291	5936	6183	6067	2	21.5%	52%																																					
ALB	ATN	CP	EU-España	TR	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	abc	abc	abc	abc																																		
ALB	ATN	CP	EU-France	TW	t1	1706	1967	2904	2570	2874	1178	4723	3466	4740	4275	3252	2194	6743	5878	2842	2806	773	1216	3249	3126	4327	6699	3379	3961	4118	5718	7601	4575	5265	6243	3	13.4%	65%																																					
ALB	ATN	CP	EU-France	TW	t2	a	ab	ac	ac	ac	a	ac	ac	ac	ac	ac	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	a	a	b	abc	abc	abc	abc	abc	abc	abc	abc	abc																																				
ALB	ATN	NCC	Chinese Taipei	LL	t1	6300	6409	3977	3905	3330	3098	5785	5299	4399	4330	4557	4278	2540	2357	1297	1107	863	1587	1367	1180	2394	947	2857	3134	2385	2926	2770	3549	2896	2806	4	11.1%	77%																																					
ALB	ATN	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc																																			
ALB	ATN	CP	EU-Ireland	TW	t1						57	319	80	634	1100	594	172	258	505	586	1514	1997	785	3595	3551	2231	2485	2390	2337	2492	3102	3213	2938	2879	3374	5	5.1%	82%																																					
ALB	ATN	CP	EU-Ireland	TW	t2						-1	b	a	a	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc																																			
ALB	ATN	CP	EU-Portugal	BB	t1	3369	926	6458	1622	393	76	281	255	1137	1913	516	224	391	21	80	517	54	179	855	1063	502	2601	912	1061	2509	494	2459	1587	481	268	6	3.9%	85%																																					
ALB	ATN	CP	EU-Portugal	BB	t2	abc	abc	abc	abc	abc	ab	abc	abc	abc	ab	abc	abc	abc	a	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc																																			
ALB	ATN	CP	EU-France	GN	t1	4587	3967	2400	2048	1717	2393	1723	1864	1150	13																								2	1	21	7	3	0	0	1	2	0	1	7	2.6%	88%																							
ALB	ATN	CP	EU-France	GN	t2	ab	ab	ac	ac	ac	a	ac	ac	ac	a																								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7																	
ALB	ATN	CP	EU-Ireland	GN	t1	1946	2534	918	874	1913	3639	4523	3374	1430																								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8																	
ALB	ATN	CP	EU-Ireland	GN	t2	ab	-1	-1	-1	-1	c	bc	bc	abc	ab																								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8															
ALB	ATN	CP	Japan	LL	t1	485	505	386	466	414	446	425	688	1126																								2	1	21	7	3	0	0	1	2	0	1	7	1.9%	92%																								
ALB	ATN	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	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	9																																			
ALB	ATN	CP	St Vincent and Grenadines	LL	t1								703	1370	300	1555	82	802	76	263	130	134	174	329	305	286	327	305	291	296	173	180	250	201			10	1.0%	93%																																				
ALB	ATN	CP	St Vincent and Grenadines	LL	t2								-1	-1	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	10																																	
ALB	ATN	CP	Venezuela	LL	t1	18	0	0	52	49	16	36	106	35	67	135	116	111	155	146	138	290	242	247	292	274	437	560	587	601	326	372	298	419	317			11	0.8%	94%																																			
ALB	ATN	CP	Venezuela	LL	t2	ab	ab	ab	ab	b	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	11																																	
ALB	ATN	CP	USA	RR	t1	224	324	23	309	335	601	90	251	122	323	334	500	356	284	394	125	23	56	117	137	561	137	121	43	28	9	30	45	55	150			12	0.7%	95%																																			
ALB	ATN	CP	USA	RR	t2	ab	ab	ab	b	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	abc	abc	abc	abc	abc	abc	abc																																
ALB	ATN	CP	USA	LL	t1	192	230	373	123	184	179	192	146	191	146	106	120	108	103	127	127	158	160	240	261	255	309	229	203	209	93	190	281	240	160			13	0.7%	96%																																			
ALB	ATN	CP	USA	LL	t2	ab	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	abc	abc	abc	abc	abc	abc	abc																																
ALB	ATN	CP	Belize	LL	t1																					22	26	39	366	351	155	230	79	1	399	448	385	216	326	201	212			14	0.4%	96%																													
ALB	ATN	CP	Belize	LL	t2																					a	a	ab	ab	ab	a	a	a	a	ab	ac	ab	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab																		
ALB	ATN	CP	Venezuela	PS	t1	228	278	278	263	26	91	55	191	260	93	211	341	63	162	198	70	84	16																								21	27			15	0.3%	96%																						
ALB	ATN	CP	Venezuela	PS	t2	ab	ab	ab	b	a	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	ab	ab	ab	ab																															
ALB	ATN	CP	EU-España	LL	t1	8	5	19	35	30	105	86	214																								264	12	10	216	80	118	89	240	111	117	133	159	216	177	123	114	49	39	1	9	2	16																	
ALB	ATN	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	b	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																																
ALB	ATN	CP	China PR	LL	t1	14	8	20																								21	16	57	196	155	32	112	202	59	24	27	142	101	21	81	35	21	103	124	124	129	208	291	240			17	0.3%	97%															
ALB	ATN	CP	China PR	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	a	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc																															
ALB	ATN	CP	Panama	LL	t1	60	103	73	11	5																								96	298	113	45	154	103																								246	108	200	196	185	176	183	181			18	0.3%	97%
ALB	ATN	CP	Panama	LL	t2	-1	-1	-1	-1	-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													
ALB	ATN	NCO	Vanuatu	LL	t1																								414	507	235	95	20	140	187	196	172	228	195																										19	0.3%	97%								
ALB	ATN	NCO	Vanuatu	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	a	a	a	a	a	a	a	a	a	a	a													
ALB	ATN	CP	EU-France	LL	t1																								76	4	26	16	90	176	253	309	229	128	4	17	3	2	1	0	47	10	41	51	142	130	17	12																							

Table 2. ALB-S stock

				T1 Total																																						
		32814	35301	27554	28426	28022	30595	27656	31388	38795	31746	28005	22545	18882	24453	20283	18867	22248	19225	24126	25272	19424	13723	15201	14383	13825	17045	15478	18084	25061	23544											
Score:	6.006																													Rank	%	%cum										
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum				
ALB	ATS	NCC	Chinese Taipei	LL	t1	19400	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	1	55.1%	55%				
ALB	ATS	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	abc	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	ab	ab	ab	1			
ALB	ATS	CP	South Africa	BB	t1	6845	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	2	17.0%	72%				
ALB	ATS	CP	South Africa	BB	t2	ab	ab	ab	ab	ab	b	ab	abc	ab	abc	abc	abc	abc	ab	ab	a	a	a	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	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	3	6.7%	79%					
ALB	ATS	CP	Namibia	BB	t2	abc	abc	abc	-1	-1	-1	abc	c	ab	ac	-1	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	3				
ALB	ATS	CP	Brazil	LL	t1	3600	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	4	4.7%	83%				
ALB	ATS	CP	Brazil	LL	t2	ab	ab	ab	a	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	4				
ALB	ATS	CP	Japan	LL	t1	467	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	1741	1881	5	4.3%	88%				
ALB	ATS	CP	Japan	LL	t2	abc	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	ab	a	a	a	5			
ALB	ATS	CP	Namibia	LL	t1	196				7	7	90	178	450	105	721	250	313	2674	138	102	0	ab	57	80	145	10	41	54	101	8	14	55	1953	7225	4722	6	2.8%	91%			
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	ab	6						
ALB	ATS	CP	EU-España	LL	t1	135	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	7	1.4%	92%				
ALB	ATS	CP	EU-España	LL	t2	-1	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	-1	7				
ALB	ATS	CP	South Africa	RR	t1	36	89	10	209	127	73	58	377	323	82	201	288	324	1696	1028	1855	1529	1268															8	1.3%	93%		
ALB	ATS	CP	South Africa	RR	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	8				
ALB	ATS	CP	Brazil	BB	t1	13	392	200	12	63	405	394	627	619	363	803	235	197	85	293	156	18	34	34	198	1190	979	129	60	55	0	1	457	306	4	5	9	1.2%	94%			
ALB	ATS	CP	Brazil	BB	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				
ALB	ATS	CP	St Vincent and Grenadines	LL	t1								2116	4292	44																							10	1.1%	95%		
ALB	ATS	CP	St Vincent and Grenadines	LL	t2																																		10			
ALB	ATS	CP	EU-Portugal	BB	t1	483	1185	655	494	256	124	232	486	40	433	415	9																						11	0.7%	96%	
ALB	ATS	CP	EU-Portugal	BB	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	11			
ALB	ATS	CP	South Africa	LL	t1					11	18	89	144	127	64	52																							12	0.4%	97%	
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	ab	a	ab	12		
ALB	ATS	NCO	Vanuatu	LL	t1													0	684	1400																			13	0.4%	97%	
ALB	ATS	NCO	Vanuatu	LL	t2																																		13			
ALB	ATS	CP	EU-France	PS	t1	565	130	83	191	39	40	13	23	33	11	18																							14	0.4%	97%	
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	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	14		
ALB	ATS	CP	EU-España	PS	t1	648	682	255	4	66	173	156	7	7	193																								15	0.4%	98%	
ALB	ATS	CP	EU-España	PS	t2	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	b	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	15		
ALB	ATS	CP	Belize	LL	t1							8	2																											16	0.3%	98%
ALB	ATS	CP	Belize	LL	t2	a	a	a	a																															16		

Table3. ALB-M stock

		T1 Total	2138	1349	1587	3150	2541	2698	4856	5577	4870	5608	7898	4874	3529	5965	6520	2970	4024	2124	4628	2047	1503	2400	3800	4396	3176	2863	2762	2675	2895	2295										
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum				
ALB	MED	CP	EU-Italy	LL	t1	402	347	81	366	172	172	307	2712	2445	3631	3786	1555	1189	1995	2721	2083	1497	1109	1634	1117	605	1342	1356	1480	1322	1029	1268	1365	1180	1134	1	38.4%	38%				
ALB	MED	CP	EU-Italy	LL	t2	b	a	a	a	a	a	a	ab	ab	a	ab	b	b	ab	b	bc	abc	abc	abc	abc	abc	abc	abc	bc	abc	abc	abc	abc	abc	1							
ALB	MED	CP	EU-Italy	PS	t1											3079	2100	1046	2589	1249	15	1230			866	10	9	244	4	26	13	17	29	19	2	11.6%	50%					
ALB	MED	CP	EU-Italy	PS	t2											-1	-1	-1	b		-1	-1	-1		-1	-1	-1	-1	abc	-1	-1	-1	-1	3	9.7%	60%						
ALB	MED	CP	EU-Italy	GN	t1	873	759	1027	1383	1222	1222	2254	916	379	397																				4							
ALB	MED	CP	EU-Italy	GN	t2	ab	a		-1	-1	-1	-1	ab	b		b																				3						
ALB	MED	CP	EU-Greece	UN	t1	1	1		952	741	1152	1950	1735	1786	1304																					4	8.9%	69%				
ALB	MED	CP	EU-Greece	UN	t2	-1	-1		-1	-1	-1	-1	-1	-1	-1																					4						
ALB	MED	CP	EU-Cyprus	LL	t1												17	243	337	451	695	204	220	206	247	321	357	385	505	558	568	624	652	586	518	484	5	7.6%	76%			
ALB	MED	CP	EU-Cyprus	LL	t2											a	a	a	ab	abc	abc	abc	abc	ab	a	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	5					
ALB	MED	CP	EU-Greece	LL	t1						35	33	40	36	445	427	323	242	257	191	116	125	126	126	165	287	541	1332	608	522	297	158	182	145	6	6.3%	83%					
ALB	MED	CP	EU-Greece	LL	t2						-1	-1	-1	-1	a	a	ab	ab		-1	a	a		-1	-1	-1	b	a		ab	ab	ab	ab	ab	6							
ALB	MED	CP	EU-España	LL	t1	8	3	6	25	176	22	74	51	112	37	1	109	148	322	421	208	204	277	338	385	238	270	52	48	206	70	60	63	127	98	7	3.9%	86%				
ALB	MED	CP	EU-España	LL	t2	ab	ab	ab	ab	ab	ac	ac	ab	ac	ac		-1	-1	a	a	abc	abc	abc	a	abc	ab	abc	abc	ab	abc	abc	ac	abc	abc	21	2.5%	89%					
ALB	MED	CP	Türkiye	GN	t1																															8						
ALB	MED	CP	Türkiye	GN	t2																																8					
ALB	MED	CP	Egypt	LL	t1																																9	1.7%	91%			
ALB	MED	CP	Egypt	LL	t2																																9					
ALB	MED	CP	Libya	LL	t1																																	10	1.5%	92%		
ALB	MED	CP	Libya	LL	t2																																	10				
ALB	MED	CP	Türkiye	PS	t1												27	30	73	852																			10			
ALB	MED	CP	Türkiye	PS	t2												-1	-1	-1	-1																			11	1.3%	93%	
ALB	MED	CP	EU-Greece	PS	t1												478	326	287	141	123																			11		
ALB	MED	CP	EU-Greece	PS	t2												-1	-1	-1	-1	-1																		12	1.3%	95%	
ALB	MED	CP	EU-España	TR	t1	59	129	306	119	202	45	73																											13	1.0%	96%	
ALB	MED	CP	EU-España	TR	t2	abc	abc	abc	abc	abc	abc	abc	abc																											13		
ALB	MED	CP	EU-España	BB	t1	231	81	163	205		33	96	88	77	29																									14	0.9%	97%
ALB	MED	CP	EU-España	BB	t2	c	ac	ac	ac		ac	ac	a		-1	ac																								14		
ALB	MED	CP	Egypt	PS	t1																																			15	0.7%	97%
ALB	MED	CP	Egypt	PS	t2																																			15		
ALB	MED	CP	EU-Malta	LL	t1																																			16	0.6%	98%
ALB	MED	CP	EU-Malta	LL	t2												a	a																						16		

Table 4. BFT-E stock (ATE region)

				T1 Total	9317	7054	9780	12098	16379	11630	10247	10061	10086	10347	7394	7402	9023	7529	8441	8243	6684	4379	3984	3834	4163	3918	4841	5968	7216	8157	9044	10874	10308	10477						
Score:	6.143																													Rank	%	%cum								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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					
BFT	ATE	CP	Japan	LL	t1	2484	2075	3971	3341	2905	3195	2690	2895	2425	2536	2695	2015	2598	1896	1612	2351	1904	1155	1089	1093	1129	1134	1386	1578	1911	2270	2524	2782	2780	2871	1	27.0%	27%		
BFT	ATE	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	abc	abc	abc
BFT	ATE	CP	EU-España	BB	t1	3718	1999	2878	4979	6634	2605	1278	1939	2319	2478	1278	1847	2207	1190	2307	2326	1197	641	562	197	163	92	130	983	1109	617	754	788	870	877	2	20.5%	48%		
BFT	ATE	CP	EU-España	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
BFT	ATE	CP	Maroc	TP	t1	387	494	210	699	1240	1615	852	1540	2330	1670	1305	1098	1518	1744	2417	1947	1909	1348	1055	990	960	959	1176	1433	1703	2164	2476	3089	2884	2704	3	18.4%	66%		
BFT	ATE	CP	Maroc	TP	t2	-1	-1	-1	-1	-1	-1	a	a	a	-1	-1	-1	bc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	
BFT	ATE	CP	EU-España	TP	t1	1244	1136	941	1207	2723	1926	3106	1416	1240	1548	784	862	880	1126	1348	1194	1209	887	902	1106	1370	1173	1466	968	1299	1764	1892	2421	1981	2330	4	17.5%	83%		
BFT	ATE	CP	EU-España	TP	t2	ab	ac	ab	ab	ab	ac	ac	ab	ac	ac	c	c	abc	b	a	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	c	abc	abc	abc	abc	abc	abc	
BFT	ATE	CP	EU-France	TW	t1	436	224	400	ab	ab	57	259	247	394	456	599	518	289	423	829	501	180	295	122	28	36	120	118	166	211	228	315	309	358	329	323	5	3.5%	87%	
BFT	ATE	CP	EU-France	TW	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	
BFT	ATE	CP	Maroc	PS	t1	24	213	458	323	828	692	709	660	150	884	490	855	871	179																					
BFT	ATE	CP	Maroc	PS	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	
BFT	ATE	CP	EU-Portugal	TP	t1			1	15	19	45	2	40	15	17	27	18	9	25	23	24	46	57	180	215	233	243	263	315	361	330	225	375	390	400	7	1.6%	91%		
BFT	ATE	CP	EU-Portugal	TP	t2			b	abc	ac	ac	ab	ab	ab	ab	ab	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	
BFT	ATE	CP	EU-France	BB	t1	164	66	181	310	134	282	270	91	105	150	130	47	69	65	128	67	62	83	74	85	74	85	74	85	74	85	77	71	88	133	146	124	8	1.4%	93%
BFT	ATE	CP	EU-France	BB	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	
BFT	ATE	CP	EU-Portugal	LL	t1	89	143	134	97	246	18	404	398	383	160	33	1	66	72	6	12	5																		
BFT	ATE	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	a	a	a	a	
BFT	ATE	CP	Korea Rep	LL	t1		4	205	92	203				6	1		0	3																						
BFT	ATE	CP	Korea Rep	LL	t2	-1	-1	-1	a	a				a	a																									
BFT	ATE	CP	China PR	LL	t1						85	103	80	68	39	19	41	24	42																					
BFT	ATE	CP	China PR	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	
BFT	ATE	NCC	Chinese Taipei	LL	t1		6	20	4	61	226	350	222	144	304	158																								
BFT	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab																								
BFT	ATE	CP	EU-España	HL	t1						162	28	33	126	61	63	109	87	11	4	10	4																		
BFT	ATE	CP	EU-España	HL	t2						ab	ac	ac	ac	ab	ac	c	c	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc
BFT	ATE	CP	EU-France	GN	t1	497	21	144	253	3	72	71	57	68	6																									
BFT	ATE	CP	EU-France	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	
BFT	ATE	CP	EU-Portugal	BB	t1	2	219	34	80	447	252	5	2	2	7																									
BFT	ATE	CP	EU-Portugal	BB	t2	ab	ab	ab	abc	abc	ab	ab	a	a	a	ab	abc	abc	ab	a	a																			
BFT	ATE	CP	Panama	LL	t1			1	19	550	255																													
BFT	ATE	CP	Panama	LL	t2	-1	-1	-1	-1	-1	-1	a	a																											
BFT	ATE	NCO	NEI (Flag related)	LL	t1	223	68	189	71	208	66																													
BFT	ATE	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1																													





Table 6. BFT-W stock

		T1 Total	2384	2113	2448	2512	2334	2657	2772	2775	2784	3319	2305	2125	1756	1811	1638	2000	1980	1857	2007	1754	1482	1627	1842	1901	1850	2027	2306	2269	2310	2700									
Score:	8.756																														Rank	%	%cum								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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						
BFT	ATW	CP	USA	RR	t1	540	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	1	35.6%	36%			
BFT	ATW	CP	USA	RR	t2	abc	abc	abc	bc	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	abc	2	18.4%	54%	
BFT	ATW	CP	Japan	LL	t1	581	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	2					
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	88	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	502	407	406	3	16.5%	70%			
BFT	ATW	CP	Canada	RR	t2	ab	ab	ab	ab	ab	bc	abc	abc	abc	abc	ab	ab	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	3			
BFT	ATW	CP	USA	LL	t1	177	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	4	8.7%	79%			
BFT	ATW	CP	USA	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	4			
BFT	ATW	CP	USA	PS	t1	295	301	249	245	250	249	248	275	196	208	265	32	178	4	28				11			2	43	42	39							5	4.8%	84%		
BFT	ATW	CP	USA	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	b	b	bc	bc						bc	bc	bc	bc								5				
BFT	ATW	CP	Canada	TL	t1	284	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	6	3.4%	87%			
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	6				
BFT	ATW	CP	USA	HP	t1	88	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	7	3.3%	91%			
BFT	ATW	CP	USA	HP	t2	bc	bc	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	7				
BFT	ATW	CP	Canada	LL	t1	25	5	4	22	12	32	31	47	20	53	28	43	36	48	58	30	64	89	112	65	67	61	74	85	74	91	143	89	107	85	8	2.6%	93%			
BFT	ATW	CP	Canada	LL	t2	a	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	TP	t1	29	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	9	1.3%	95%				
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	a			9			
BFT	ATW	CP	Canada	HP	t1	33	34	43	32	55	36	38	18	20	13	10	abc	7	14	20	17	24	18	37	30	31	25	11	26	25	17	30	38	44	74	3	10	1.3%	96%		
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	abc	abc	abc	10		
BFT	ATW	CP	Mexico	LL	t1	17	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	11	1.2%	97%			
BFT	ATW	CP	Mexico	LL	t2	-1	ab	ab	ab	ab	ab	ab	abc	abc	ab	ab	ab	ab	abc	abc	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	1.1%	98%			
BFT	ATW	NCO	NEI (Flag related)	LL	t2							-1	-1	-1																						12					
BFT	ATW	CP	USA	HL	t1		224	228	66	33	17	29	15	3	9	4		1	2	0			1	0	3	1	1	0		1	5	1				13	1.0%	99%			
BFT	ATW	CP	USA	HL	t2	bc	bc	bc	bc	bc	bc	bc	bc	bc	b	b	b	b	c			c	bc	bc	bc	bc	bc		bc	bc	bc					13					
BFT	ATW	CP	Canada	TR	t1																														33	115	14	0.3%	99%		
BFT	ATW	CP	Canada	TR	t2																		16	abc													14				



Table 8. YFT-E region

		T1 Total	124725	124849	119431	116151	104363	113615	103601	96825	112772	106797	98205	88267	75559	77614	78667	93744	99135	97251	94678	91176	82445	98880	102473	114124	98841	102632	107952	124415	92260	114004								
Score:			6.611																																					
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum		
YFT	ATE	CP	EU-France	PS	t1	35052	33720	28903	32651	29123	31145	29662	30420	31519	33291	32936	23961	22299	18480	13279	15981	18748	20155	21772	18590	20359	22264	20515	26003	25769	24743	17839	15992	12821	17400	1	23.8%	24%		
YFT	ATE	CP	EU-España	PS	t1	40044	39734	37707	31866	23901	28282	19332	24764	30433	30343	23665	20454	11121	10607	12833	23557	32140	24191	18238	17898	11336	13463	20429	18349	11236	10208	13844	18812	9714	10898	2	21.0%	45%		
YFT	ATE	CP	EU-España	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	3	9.7%	54%	
YFT	ATE	CP	Ghana	PS	t1	2542	5628	4710	9640	5222	12240	11120	9127	5502	6364	4865	5396	9197	9602	13951	11730	10221	9031	12384	12573	12843	13368	16130	19570	20531	15892	25374	4	7.3%	62%					
YFT	ATE	CP	Ghana	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	5	5.0%	67%		
YFT	ATE	CP	Ghana	BB	t1	13283	9984	9268	5640	9459	9139	11810	7451	11605	7426	6711	9943	6655	9173	10174	7325	6257	6301	6771	5774	4521	6042	6324	6739	5602	5841	4529	4068	4219	4176	6	4.7%	71%		
YFT	ATE	CP	Panama	PS	t1	7781	8548	10854	5759	3137	1753	1087	574	1022		1887	6325	8682	9539	6289	5911	5102	4459	5058	4062	4646	3202	4305	5073	4071	5863	8187	8408	10888	7	3.4%	75%			
YFT	ATE	CP	Panama	PS	t2	ab	ab	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	8	2.8%	78%	
YFT	ATE	CP	Curacao	PS	t1	3183	6082	6110	3962	5441	4793	4035	6185	4161	15	1964	1390	7367	6469	5397	4501	6906	3813	5230	6140	7905	6535	7543	7751	8986	7767	3027	6	4.7%	71%					
YFT	ATE	CP	Curacao	PS	t2	ab	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	9	2.1%	82%	
YFT	ATE	CP	Japan	LL	t1	2627	4194	4770	4246	2733	4092	2101	2286	1550	1534	1999	5066	3088	4206	8496	5266	3563	3041	3348	3637	3843	3358	2857	2914	2708	2953	3400	2356	2736	3599	7	3.4%	75%		
YFT	ATE	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	10	1.9%	84%	
YFT	ATE	CP	Belize	PS	t1				963			321	406									377	1820	3154	5888	5295	7070	7125	3497	5791	8121	9142	8688	7571	9036	8	2.8%	78%		
YFT	ATE	CP	Belize	PS	t2	a			a			ab	ab			b						abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	9	2.5%	80%	
YFT	ATE	CP	Cape Verde	PS	t1				0	6	12	884	246	356	5110	4443	3556	7295	3620	4954	5260	3469	6424	3591	6918	5106	1541	3992	2280	4823	818	78	78	10	2.1%	82%				
YFT	ATE	CP	Cape Verde	PS	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	11	1.9%	84%		
YFT	ATE	CP	Guatemala	PS	t1										2207	1588	2963	5300	3478	3768	2612	3158	2811	2961	4036	3773	5200	2703	3647	2499	2944	2581	1868	4254	10	2.1%	82%			
YFT	ATE	CP	Guatemala	PS	t2	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	ab	ab	ab	ab	11	1.9%	84%
YFT	ATE	NCC	Chinese Taipei	LL	t1	1301	3851	2681	3985	2993	3643	3389	4014	2787	3363	4946	4145	2327	860	1707	807	1180	537	1463	819	1023	902	927	761	563	550	464	437	180	253	11	1.9%	84%		
YFT	ATE	NCC	Chinese Taipei	LL	t2	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	ab	ab	ab	ab	12	1.6%	86%
YFT	ATE	CP	El Salvador	PS	t1								933																							12	1.6%	86%		
YFT	ATE	CP	El Salvador	PS	t2																																13	1.5%	87%	
YFT	ATE	CP	Senegal	PS	t1																																14	1.2%	88%	
YFT	ATE	CP	Senegal	PS	t2	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	15	1.2%	90%
YFT	ATE	CP	Cape Verde	HL	t1	1344	1560	1362	1289	1299	1145	1185	1388	1374	918	1617	1501	985	1218	1048	648	1121	1054	800	1164	1167	1167	1167	1167	2057	1265	1572	1459	1448	1212	872	14	1.2%	88%	
YFT	ATE	CP	Cape Verde	HL	t2	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	ab	ab	ab	ab	15	1.2%	90%
YFT	ATE	CP	EU-España	BB	t1	1498	1767	1101	3069	996	3509	1311	601	504	917	1379	1292	798	928	769	1055	874	1561	3010	973	593	1043	1068	1393	1416	696	914	742	303	452	15	1.2%	90%		
YFT	ATE	CP	EU-España	BB	t2	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	16	1.0%	91%	
YFT	ATE	CP	Maroc	PS	t1	2396	3017	2290	3430	1947	2276	2307	2441	3000	2032	1567	719	1757	127						9	8	21	17	11	35	27	35	69	104	312	405	16	1.0%	91%	
YFT	ATE	CP	Maroc	PS	t2	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	ab	ab	ab	ab	17	1.0%	92%
YFT	ATE	NCO	NEI (Flag related)	LL	t1	1157	2524	2975	3588	3368	5464	5182	3072	2019	43	466																					17	1.0%	92%	
YFT	ATE	NCO	NEI (Flag related)	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	18	0.9%	92%	
YFT	ATE	CP	St Vincent and Grenadines	PS	t1	5391	2476	2142	2969	3017	3327	1916	1987	3640																							18	0.9%	92%	
YFT	ATE	CP	St Vincent and Grenadines	PS	t2	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	ab	ab	ab	ab	19	0.8%	93%
YFT	ATE	CP	Russian Federation	PS	t1	2160	1503	2936	2696	4275	4931	4359	737										42	211	42	33											19	0.8%	93%	
YFT	ATE	CP	Russian Federation	PS	t2	-1	b	b	-1	-1	b	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	0.7%	94%	
YFT	ATE	CP	EU-France	BB	t1	2588	2533	1765	1658	887	319	1071	417	686	1444	772	549	606	588	488	186	381	360	609	258	26	383	404	432	283	171	213	185							

Table 9. YFT-W region

				T1 Total																																					
				38836	48336	35294	33056	32941	30946	31217	35628	40329	29665	24987	31305	29516	28278	24176	18130	18780	21029	19239	22510	23888	25144	28226	37262	38678	33898	28922	30131	27194	34207								
		Score:	4.886																																						
Species	Stock	Status	FlagName	GearGrp	Dset	1993	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	Rank	%	%cum			
YFT	ATW	CP	Venezuela	PS	t1	12659	19587	6338	10777	11653	9157	6523	7572	13934	7961	4607	3185	2634	4439	2341	1363	2722	2253	3291	3635	2581	1920	2367	3373	1527	760	725	591	669	1	17.0%	17%				
YFT	ATW	CP	Venezuela	PS	t2	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	ab	ab	ab	1				
YFT	ATW	CP	Brazil	HL	t1	60	18	69	156							272				30	22	25	2	61	415	1570	5208	10415	12123	13658	16878	15159	10993	11038	11052	11841	2	13.4%	30%		
YFT	ATW	CP	Brazil	HL	t2	b	-1	-1	-1							-1				-1	-1	-1	a		-1	-1	-1	-1	-1	ab	ab	a	ab	a	a	2					
YFT	ATW	CP	USA	RR	t1	1898	4523	4053	4032	3569	2927	3967	3862	4185	2887	5328	3759	3657	4908	2966	1033	1011	1400	1802	2405	2532	1621	1660	2743	2904	1770	1669	2808	3189	6898	3	10.2%	41%			
YFT	ATW	CP	USA	RR	t2	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	ab	ab	ab	ab	3			
YFT	ATW	CP	Brazil	LL	t1	2044	1365	1378	734	849	1285	2930	2754	4954	3323	1941	4115	4987	2543	4093	2326	2906	2989	2989	1954	2558	1141	1112	1206	2579	1118	842	1296	1287	1617	1250	4	7.3%	48%		
YFT	ATW	CP	Brazil	LL	t2	a	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	4			
YFT	ATW	CP	USA	LL	t1	3886	3246	3645	3320	3773	2449	3541	2901	2200	2573	2164	2492	1746	2010	2395	1394	1686	1218	1462	2270	1544	1446	1041	1300	1431	855	877	795	721	795	5	6.8%	55%			
YFT	ATW	CP	USA	LL	t2	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	ab	ab	ab	ab	ab	5		
YFT	ATW	CP	Venezuela	BB	t1	3296	4350	2684	2604	2632	4267	4152	3660	4296	3166	2475	2030	1631	1481	951	489	929	809	1068	788	673	395	428	771	500	339	244	48	46	149	6	5.7%	60%			
YFT	ATW	CP	Venezuela	BB	t2	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	ab	ab	ab	ab	ab	6		
YFT	ATW	CP	Brazil	BB	t1	3087	2744	2613	1956	1643	1229	1197	3093	1276	2843	1289	2838	2236	1214	1353	397	402	627	1243	511	928	118	315	445	366	376	618	778	983	1918	7	4.5%	65%			
YFT	ATW	CP	Brazil	BB	t2	ab	ab	a	a	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	7				
YFT	ATW	CP	Mexico	LL	t1	855	1093	1126	771	826	788	1283	1390	1084	1133	1313	1208	1050	943	896	961	1220	924	1183	1421	1006	1048	971	1282	1244	1033	763	821	885	609	8	3.5%	68%			
YFT	ATW	CP	Mexico	LL	t2	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	ab	ab	ab	ab	8			
YFT	ATW	NCC	Chinese Taipei	LL	t1	2895	2809	2017	2668	1473	1685	1022	1647	2018	1296	1540	1679	1269	400	240	315	211	287	305	252	236	139	293	181	213	395	272	433	288	416	9	3.2%	72%			
YFT	ATW	NCC	Chinese Taipei	LL	t2	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	ab	ab	ab	ab	ab	9		
YFT	ATW	CP	St Vincent and Grenadines	LL	t1					649	1956	1341	1151	543	4227	3430	2633	2972	2532	2230	819	927	551	325	481	124	434	642	307	67	83	3	106			10	3.2%	75%			
YFT	ATW	CP	St Vincent and Grenadines	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	10			
YFT	ATW	CP	Panama	LL	t1					5		20	28				2804	227	153	119	2134	1126	1630	1995	902	1370	1837	1604	2104	2375	2163	1304	1110			11	2.8%	77%			
YFT	ATW	CP	Panama	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	11			
YFT	ATW	CP	Japan	LL	t1	469	589	457	1004	806	1081	1304	1775	1141	571	755	1194	1159	437	541	986	1431	1539	1106	1024	734	465	612	462	415	147	655	306	684	582	12	2.7%	80%			
YFT	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	abc	12		
YFT	ATW	CP	Venezuela	LL	t1	707	850	687	383	381	560	504	421	451	266	323	559	828	593	613	712	898	1249	1090	736	738	790	773	1060	1181	878	1024	1159	1337	2350	13	2.7%	83%			
YFT	ATW	CP	Venezuela	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	a	a	a	a	a	a	a	a	a	13			
YFT	ATW	CP	Trinidad and Tobago	LL	t1	4	120	79	183	223	213	163	112	122	125	186	224	295	459	615	520	629	788	798	930	1128	1141	1179	1057	889	1214	982	973	1244	1080	14	2.0%	85%			
YFT	ATW	CP	Trinidad and Tobago	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	14			
YFT	ATW	CP	Grenada	LL	t1	858	385	409	523	302	484	430	403	759	593	749	460	492	502	633	756	630	673							1108	1535	1177	1297	708	739	287	578	15	1.9%	87%	
YFT	ATW	CP	Grenada	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	15			
YFT	ATW	NCO	NEI (Flag related)	LL	t1	1514	1880	1227	2374	2732	2875	1578	2197	765	14	112																						16	1.9%	89%	
YFT	ATW	NCO	NEI (Flag related)	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	16			
YFT	ATW	NCO	Colombia	PS	t1	2404	3418	7172																														17			
YFT	ATW	NCO	Colombia	PS	t2	-1	-1	-1	-1																													17			
YFT	ATW	CP	Ghana	PS	t1																			476	369	506	696	614	1370	2349	2144	1836					18	1.1%	91%		
YFT	ATW	CP	Ghana	PS	t2				ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac				a	a	ab			ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	18		
YFT	ATW	CP	Belize	LL	t1																		143	1164	1160	940	264	42	41	38	33	39	359	623	955	653	625	1082	19	0.9%	92%
YFT	ATW	CP	Belize	LL	t2																		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	19		
YFT	ATW	CP	EU-France	LL	t1																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	0.7%	93%	
YFT	ATW	CP	EU-France	LL	t2																																		20		
YFT	ATW	NCO	Vanuatu	LL	t1								681	689	661	555	873	816	720	330	207	124	17															21	0.6%	93%	
YFT	ATW	NCO	Vanuatu	LL	t2																																	21			
YFT	ATW	CP	China PR	LL	t1					628	655	22	470	435	17	275	74	29	124	284	248	258	126	94	81	73	91	182	232	172	158	380	108	388			22	0.6%	94%		
YFT	ATW	CP	China PR	LL	t2					a	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	22		
YFT	ATW	CP	Barbados	LL	t1	161	156	255																																	

Table 10. SKJ-E stock

				T1 Total	176555	161456	152984	129590	117229	132325	154940	126294	131909	100585	130192	154006	143982	111923	120223	123091	137829	164026	187096	218431	224007	205316	221076	237395	241957	283169	255318	222230	206953	271371						
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum		
SKJ	ATE	CP	EU-España	PS	t1	66402	49987	48733	33947	33428	29976	42714	37145	27798	21596	39396	33421	18718	14975	17675	27918	30041	34175	46823	48185	57594	43139	41782	44743	49655	41750	40022	27350	37133	33658	1	21.4%	21%		
SKJ	ATE	CP	EU-España	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	abc	abc	abc
SKJ	ATE	CP	Ghana	PS	t1				4090	6065	17717	22954	13598	13076	21677	16341	13595	28167	11337	12574	24755	24179	31773	28157	37296	36794	39878	49480	41304	48048	57050	54441	56375	38413	71475	2	15.7%	37%		
SKJ	ATE	CP	Ghana	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	abc	abc	
SKJ	ATE	CP	EU-France	PS	t1	39592	37824	28110	23818	16749	17791	23774	21381	15560	15407	20802	23078	13524	5769	4633	3948	7722	14733	13569	13395	16022	17351	22365	16285	24152	20973	13863	18143	24575	3	10.6%	48%			
SKJ	ATE	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	abc	abc	
SKJ	ATE	CP	Ghana	BB	t1	19637	21258	18607	20115	20315	25895	31134	22919	44464	18516	18094	34151	26042	20597	22845	13893	19743	13731	16012	16736	11269	10108	12369	13420	9449	11097	8414	6849	6076	5276	4	10.3%	58%		
SKJ	ATE	CP	Ghana	BB	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	abc	abc	
SKJ	ATE	CP	Curaçao	PS	t1				7096	8444	8553	9932	10008	13370	5427	10092	8708	88	3213	1703	6541	10060	9594	12380	13324	18312	18437	19621	22180	20660	24539	17360	10841	12845	3953	5	5.9%	64%		
SKJ	ATE	CP	Curaçao	PS	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	
SKJ	ATE	CP	Panama	PS	t1	12939	12845	14853	5855	1300	572	1117	1374	281	342		7126	12286	14016	19798	8946	9199	9944	13119	11211	15520	14565	8372	11510	8815	9089	10926	10626	10969	13805	6	5.2%	69%		
SKJ	ATE	CP	Panama	PS	t2	ab	ab	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	
SKJ	ATE	CP	EU-España	BB	t1	3217	5270	5760	5044	7075	8593	5607	3780	3156	3836	7174	7207	10119	7633	6378	8345	8647	8405	11674	19445	10185	9951	7269	10994	10560	13085	10734	6249	2750	2058	7	4.4%	73%		
SKJ	ATE	CP	EU-España	BB	t2	ac	ac	ac	ac	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	a	abc	abc	abc	abc	abc		
SKJ	ATE	CP	Belize	PS	t1				720			229	278										1488	3109	7797	15733	6854	11080	12599	7730	9958	20748	17063	19180	18044	29134	8	3.5%	77%	
SKJ	ATE	CP	Belize	PS	t2	a																																		
SKJ	ATE	CP	Senegal	PS	t1				284	152																		2705	14092	21852	26712	28735	20931	27021	38928	9	3.5%	80%		
SKJ	ATE	CP	Senegal	PS	t2																							abc	abc	ac	ac	ac	ac	ac	a	a	a	a		
SKJ	ATE	CP	EU-Portugal	BB	t1	5598	7510	4986	8276	4395	4519	1800	1285	2135	2940	4276	8459	4687	11001	8604	5734	904	12859	4078	2758	4039	1703	1296	695	1752	6985	2558	1020	6609	4003	10	2.6%	83%		
SKJ	ATE	CP	EU-Portugal	BB	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	abc	abc	
SKJ	ATE	CP	Cape Verde	PS	t1				8	18	21	1		300	366	54	1040	7498	4862	5434	4872	5387	5823	8277	5680	16135	16307	18776	10471	6222	7210	5422	5426	447	1098	11	2.6%	85%		
SKJ	ATE	CP	Cape Verde	PS	t2	a			a	a	a	a		a	a	a	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	abc	ab	a	a	a					
SKJ	ATE	CP	Guatemala	PS	t1											2120	4808	6649	5028	5612	6481	4095	3087	2880	3732	4979	5904	7078	7386	9800	8648	7626	6503	6053	7335	12	2.2%	88%		
SKJ	ATE	CP	Guatemala	PS	t2											ab	ab	ab	ab	abc	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac		
SKJ	ATE	CP	El Salvador	PS	t1																							6970	16949	14577	17045	16729	14806	9374	11856	13	2.1%	90%		
SKJ	ATE	CP	El Salvador	PS	t2																							abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc		
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t1	3858	3568	4543	1316	2345	1508	1119	2194	218	65	1547	2953	1708	1478	3003	2998	2624	3427	2372					4484	8603	4618	6499	5396	6710						
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t2	-1	-1	-1	-1	-1	b	b		-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b		
SKJ	ATE	CP	Senegal	BB	t1	55	64	282	238	429	1699	1632	1357	1284	1178	639	1446	5033	3858	4552	3045	4506	2707	5383	4414	4490	3092	1895	2495	2740	1085	1419	925	954	802	15	1.2%	92%		
SKJ	ATE	CP	Senegal	BB	t2	a	a	a	ac	a	ab	a	ab	a	ab	ab	ab	ab	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac		
SKJ	ATE	CP	Maroc	PS	t1	3637	3596	6740	2728	5468	4116	4033	3072	1568	1148	3289	3476	3660	536	131	108	654	892	1061	1076	1121	583	92	20	150	1076	378	953	469	357	16	1.1%	94%		
SKJ	ATE	CP	Maroc	PS	t2	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	ab	ab	ab	ab	ab	ab	
SKJ	ATE	CP	Guinée Rep	PS	t1				975	6432	2408									387																				
SKJ	ATE	CP	Guinée Rep	PS	t2				a	a	a																													
SKJ	ATE	CP	EU-France	BB	t1	2154	2547	2697	1698	3700	4179	2342	1507	2546	2340	1344	2239	1610	1769	778	1187	904	932	1382	613	752	940	1270	1275	1183	1287	634	274	100	18	0.9%	95%			
SKJ	ATE	CP	EU-France	BB	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	abc	abc	abc
SKJ	ATE	CP	Côte d'Ivoire	GN	t1									1173	259	292	143	559	1259	1565	1817	2328	2840	2840	3883	4926	5188	311	254	373	1533	22	3241	279	1311	2266	19	0.7%	96%	
SKJ	ATE	CP	Côte d'I																																					

Table 11. SKJ-W stock

		T1 Total	33221	29949	21860	27562	31712	29087	27356	29193	31451	21600	24749	27461	28517	26453	25440	22013	25774	25907	32388	33067	34596	27356	21066	22367	24045	23273	20121	18903	20048	21383								
Score:	4.437																													Rank	%	%cum								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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					
SKJ	ATW	CP	Brazil	BB	t1	17762	20582	16530	22517	25821	23570	22948	24691	24038	18185	20416	23036	25269	23029	23783	20632	23077	22627	29322	30569	32127	24787	17499	16418	14577	14886	15355	14590	15568	11664	1	80.7%	81%		
SKJ	ATW	CP	Brazil	BB	t2	ab	ab	ab	a	ab	a	a	-1	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	1				
SKJ	ATW	CP	Venezuela	PS	t1	10049	5692	2059	3348	3604	3607	2696	2590	5189	2000	2296	2769	848	1806	806	688	1808	1931	1308	1573	908	1081	1974	1912	2150	1226	868	603	687	187	2	8.7%	89%		
SKJ	ATW	CP	Venezuela	PS	t2	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	ab	ab	2				
SKJ	ATW	CP	Brazil	HL	t1				0											5		4	4	159	244	222	369	465	1169	5293	4461	2195	2277	2351	7041	3	3.3%	93%		
SKJ	ATW	CP	Brazil	HL	t2				-1											-1		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3				
SKJ	ATW	CP	Venezuela	BB	t1	1123	1005	328	224	224	506	282	299	1681	552	950	501	245	201	115	69	441	177	146	124	60	27	39	393	70	41	55	4	4	23	4	1.3%	94%		
SKJ	ATW	CP	Venezuela	BB	t2	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	ab	ab	ab	4			
SKJ	ATW	NCO	Cuba	BB	t1	1017	1268	886	1000	1000	651	651	651		b	624	545	514	536																		5	1.2%	95%	
SKJ	ATW	NCO	Cuba	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1																							5			
SKJ	ATW	CP	Brazil	PS	t1					743	219	240	473	108	116				1119	239	403	213	223		552	9							406	474	682	6	0.8%	96%		
SKJ	ATW	CP	Brazil	PS	t2					-1	-1	a	-1	-1	-1				a	a	a	a	a		-1	-1							a	a	a	7				
SKJ	ATW	CP	Brazil	LL	t1	9	6	30	9						38		1						3	825	323	41	88	39	170	645	199	260	374	160	394	1157	7	0.6%	97%	
SKJ	ATW	CP	Brazil	LL	t2	a		-1	-1	-1					-1	a	a																				8			
SKJ	ATW	CP	Ghana	PS	t1																																8	0.4%	97%	
SKJ	ATW	CP	Ghana	PS	t2				ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	c	c	c	ac	c	bc	bc	ab	67	157	265	160	410	1234	700	283			8			
SKJ	ATW	CP	USA	RR	t1	81	66	21	82	64	86	99	30	49	70	61	74	15	49	52	49	102	86	98	91	323	172	92	176	195	76	44	67	64	101	9	0.3%	97%		
SKJ	ATW	CP	USA	RR	t2	ab	ab	ab	b	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	9			
SKJ	ATW	NCO	Sta Lucia	TR	t1										106	132	137	159	120	89	168																10	0.3%	98%	
SKJ	ATW	NCO	Sta Lucia	TR	t2																																	10		
SKJ	ATW	NCO	Colombia	UN	t1		789	1583																														11	0.3%	98%
SKJ	ATW	NCO	Colombia	UN	t2		-1	-1																														11		
SKJ	ATW	NCO	Colombia	PS	t1		2074																															12	0.3%	98%
SKJ	ATW	NCO	Colombia	PS	t2		-1																															12		
SKJ	ATW	CP	EU-España	PS	t1		397																															13	0.3%	98%
SKJ	ATW	CP	EU-España	PS	t2	-1	c		ac	ac	a	a	c	abc	abc		bc	a					a	abc	abc	abc	abc	abc	abc	ac	bc	abc	abc	abc	a	ac	abc	13		

Table 12. SWO-N stock

Score:		T1 Total		16738	15501	17105	15222	13025	12329	11622	11453	10011	9654	11444	12071	12380	11528	12306	11102	12146	11672	12709	13890	12078	10708	10752	10501	10295	9025	10244	10445	9845	10349	Rank	%	%cum				
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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					
SWO	ATN	CP	EU-España	LL	t1	6392	6027	6948	5519	5133	4079	3993	4581	3967	3954	4585	5373	5511	5446	5564	4366	4949	4147	4885	5620	4082	3750	4013	3915	3586	3186	3112	3587	3235	3717	1	38.3%	38%		
SWO	ATN	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	abc	abc	abc	abc	a
SWO	ATN	CP	USA	LL	t1	4044	3960	4452	4015	3399	3433	3364	3316	2498	2598	2757	2591	2273	1961	2474	2405	2691	2204	2572	3347	2812	1816	1593	1389	1301	1106	1456	1150	944	1090	2	20.9%	59%		
SWO	ATN	CP	USA	LL	t2	ab	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	abc	abc	abc	abc
SWO	ATN	CP	EU-Portugal	LL	t1	1950	1579	1593	1702	902	772	776	731	731	765	1032	1319	900	949	778	747	898	1054	1202	882	1438	1241	1420	1459	1871	1670	2346	2044	2076	1714	3	10.8%	70%		
SWO	ATN	CP	EU-Portugal	LL	t2	ab	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	abc	abc	abc	abc
SWO	ATN	CP	Canada	LL	t1	2206	1654	1421	646	1005	927	1136	923	984	954	1216	1161	1470	1238	1142	1115	1061	1182	1351	1502	1290	1383	1489	1473	1034	753	965	1286	1363	1312	4	10.2%	80%		
SWO	ATN	CP	Canada	LL	t2	ab	ab	ab	ab	ab	ab	abc	abc	bc	bc	bc	bc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	
SWO	ATN	CP	Japan	LL	t1	1126	933	1043	1494	1218	1391	1089	759	567	319	263	575	705	656	889	935	778	1062	523	639	300	545	430	379	456	325	362	411	375	501	5	5.9%	86%		
SWO	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	bc	bc	bc	bc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	
SWO	ATN	CP	Maroc	LL	t1	27	7	28	35	239	101	35	38	264	154	223	255	325	333	229	428	720	963	700	700	1000	1000	800	800	750	865	865	852	955	1085	6	4.1%	90%		
SWO	ATN	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	bc	abc	abc	abc	abc	abc	bc	abc	a	a	abc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	
SWO	ATN	NCC	Chinese Taipei	LL	t1	127	507	489	521	509	286	285	347	299	310	257	30	140	172	103	82	89	88	192	193	115	85	133	152	96	169	122	158	68	150	7	1.8%	92%		
SWO	ATN	NCC	Chinese Taipei	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	abc	abc	abc
SWO	ATN	CP	Canada	HP	t1	28	22	189	93	89	240	18	95	121	38	147	87	193	203	267	258	248	176	208	97	275	233	98	85	175	34	33	50	18	31	8	1.1%	93%		
SWO	ATN	CP	Canada	HP	t2	ab	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	abc	abc	abc	abc
SWO	ATN	CP	China PR	LL	t1	73	86	104	132	40	337	304	22	102	90	316	56	108	72	85	92	82	92	73	75	59	96	60	141	135	81	86	92	96	44	38	9	0.9%	94%	
SWO	ATN	CP	China PR	LL	t2	-1	-1	-1	-1	-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	
SWO	ATN	CP	USA	HL	t1	38						0	1																											
SWO	ATN	CP	USA	HL	t2	-1																																		
SWO	ATN	CP	EU-France	TW	t1		13	13	97	164																														
SWO	ATN	CP	EU-France	TW	t2	a																																		
SWO	ATN	CP	Trinidad and Tobago	LL	t1	11	180	150	158	110	130	138	41	75	92	78	83	91	19	29	48	30	21	16	14	16	26	17	13	36	3	6	8	6	6	12	0.5%	96%		
SWO	ATN	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
SWO	ATN	CP	Belize	LL	t1																																			
SWO	ATN	CP	Belize	LL	t2																																			
SWO	ATN	CP	Maroc	GN	t1	2	13	32	322	13	179	60	51	243	64	98	76	9																						
SWO	ATN	CP	Maroc	GN	t2	-1	-1	-1	-1	-1	c	ac	ac	ac	-1	b	b	b																						
SWO	ATN	CP	USA	RR	t1							6	11	5	21	16	2	22	6	25	61	53	68	76	32	49	54													
SWO	ATN	CP	USA	RR	t2	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
SWO	ATN	CP	Korea Rep	LL	t1	19	16	16	19	15																														
SWO	ATN	CP	Korea Rep	LL	t2	a	a	a	a	a																														
SWO	ATN	CP	Mexico	LL	t1	6	14	10	22	14	28	24	37	27	34	32	44	41	31	35	34	32	35	38	41	33	32	31	37	64	45	30	21	25	22	17	0.3%	97%		
SWO	ATN	CP	Mexico	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	a	a	a	a	a	a	a	a	a	a		
SWO	ATN	CP	Venezuela	LL	t1	68	60	45	74	11	7	9	30	12	25	29	46	48	15	19	5	8	16	13	18	20	18	29	53	52	31	31	14	13	17	18	0.2%	97%		
SWO	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a		
SWO	ATN	CP	Senegal	LL	t1																																			
SWO	ATN	CP	Senegal	LL	t2																																			

Table 13. SWO-S stock

					T1 Total	16130	18958	21931	18289	18542	14027	15502	15728	15128	14104	12634	13082	13163	14196	15629	12370	12668	12596	11205	10686	9204	9970	10345	10611	10537	10378	10090	8938	9508	8743						
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum			
SWO	ATS	CP	EU-España	LL	t1	6974	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	1	42.7%	43%			
SWO	ATS	CP	Brazil	LL	t1	2013	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	2	23.2%	66%			
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	ab	a	a	a	a	a	a	a	a	a	a	2				
SWO	ATS	CP	Japan	LL	t1	5256	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	501	667	3	10.2%	76%			
SWO	ATS	CP	Japan	LL	t2	ab	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	ab	a	a	a	3				
SWO	ATS	NCC	Chinese Taipei	LL	t1	846	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	4	7.4%	83%			
SWO	ATS	NCC	Chinese Taipei	LL	t2	abc	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	abc	abc	4		
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	5	3.3%	87%			
SWO	ATS	CP	Namibia	LL	t2	a					a		1	a		1	a		ab	ab	ab	ab	ab	ab	a	ab	a	a	a	abc	abc	abc	abc	abc	a	5	2.9%	90%			
SWO	ATS	CP	Uruguay	LL	t1	260	165	499	644	760	889	650	713	789	768	850	1105	843	620	464	370	501	222	179	40	103											6				
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	ab	6			
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	7	2.4%	92%				
SWO	ATS	CP	EU-Portugal	LL	t2		a	a	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	7					
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	8	1.7%	94%			
SWO	ATS	CP	China PR	LL	t2						a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8				
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	9	1.4%	95%			
SWO	ATS	CP	South Africa	LL	t2			1			ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	9				
SWO	ATS	CP	Ghana	GN	t1	121	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	10	1.0%	96%			
SWO	ATS	CP	Ghana	GN	t2	-1	-1	-1	ab	b	ab	b	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	10				
SWO	ATS	CP	S Tomé e Príncipe	TR	t1	202	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	0.8%	97%		
SWO	ATS	CP	S Tomé e Príncipe	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	-1	-1	11			
SWO	ATS	CP	Korea Rep	LL	t1	198	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	12	0.4%	97%			
SWO	ATS	CP	Korea Rep	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	abc	abc	a	abc	ab	abc	abc	a	a	a	12					
SWO	ATS	CP	Belize	LL	t1			1				17	8								120	32	111	121	207	197	136	45	111	176	166	115	55	2	2	13	0.4%	98%			
SWO	ATS	CP	Belize	LL	t2		a					-1	a							a	ab	ab	ab	a	a	ab	a	ab	abc	ab	abc	abc	ab	ab	ab	13					
SWO	ATS	NCO	Cuba	LL	t1	192	452	778	60	60																											14	0.4%	98%		
SWO	ATS	NCO	Cuba	LL	t2	-1	-1	-1	-1	-1																											14				
SWO	ATS	CP	Senegal	LL	t1																77	97	137	78	117	162	178	143	97	90	112	65	116	38			15	0.4%	99%		
SWO	ATS	CP	Senegal	LL	t2																-1	a	-1	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	15				



Table 14. SWO-M stock

		T1 Total	13265	16082	13015	12053	14693	14369	13699	15569	15006	12814	15694	14405	14622	14915	14227	13683	13235	14754	12640	11046	10070	10969	11983	12300	10390	8681	8176	7664	7512	7169									
Score:			4.915																												Rank	%	%cum								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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						
SWO	MED	CP	EU-Italy	LL	t1	3260	3844	3035	2617	2458	2458	2680	2639	2236	1841	5844	5452	5560	5253	4564	5246	5438	5919	5313	4474	3304	3921	4883	4540	3882	2289	2461	2231	1998	2038	1	29.8%	30%			
SWO	MED	CP	EU-Italy	LL	t2	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	ab	ab	b	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	ac	abc	abc	abc	1					
SWO	MED	CP	EU-Italy	GN	t1	3070	3921	4264	2657	3632	3632	3632	4863	4152	1698	2540	1483	1891	2373	1948									0								2	12.2%	42%		
SWO	MED	CP	EU-Italy	GN	t2	ab	ab	b	b	b	b	ab	b	b	-1	b	b	b	b	-1																	2				
SWO	MED	CP	EU-España	LL	t1	1293	1402	1351	1040	1184	1409	867	1396	1402	1421	1165	930	860	1405	1648	2063	1994	1785	1730	1580	1605	2019	2289	1732	1487	1470	1548	1425	1557	1542	3	11.9%	54%			
SWO	MED	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	abc	3				
SWO	MED	CP	EU-Greece	LL	t1	1568	2520	974	1237	750	1650	1520	1960	1730	1680	1230	1129	1424	1374	1907	989	1132	1494	1306	877	1731	1344	761	761	392	350	745	657	686	371	4	9.7%	64%			
SWO	MED	CP	EU-Greece	LL	t2	ab	ab	ab	-1	-1	ab	ab	ab	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4				
SWO	MED	CP	Maroc	GN	t1	2068	2109	1518	2461	4653	2905	2979	2503	2266	2230	1629	1299	722	603	615	587	477	410	387														5	8.7%	72%	
SWO	MED	CP	Maroc	GN	t2	-1	b	-1	-1	-1	c	bc	abc	abc	b	b	b	b	b	b	abc	-1	abc	abc													5				
SWO	MED	CP	Maroc	LL	t1	517	527	169	273	245	323	259	205	754	1149	1670	1954	1801	1455	1107	1713	1388	1501	800	1003	963	968	604	1395	1350	1368	982	951	924	891	6	7.8%	80%			
SWO	MED	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	bc	abc	abc	abc	abc	abc	abc	abc	abc	6					
SWO	MED	CP	Tunisie	LL	t1	354	298	378	352	346	414	468	483	567	1138	285	791	791	949	1024	1232	1233	1238	1267	1265	1262	1302	1307	1273	1377	1338	934	918	891	857	7	7.0%	87%			
SWO	MED	CP	Tunisie	LL	t2	-1	-1	-1	-1	-1	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7				
SWO	MED	CP	Algerie	LL	t1	173	185	247	247	178	126	166	439	347	238	174	93	496	492	977	570	560	234	433	467	693	705	842	755	725	517	501	446	472	8	3.4%	90%				
SWO	MED	CP	Algerie	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	8				
SWO	MED	CP	EU-Malta	LL	t1	91	47	72	72	100	153	187	175	102	257	163	195	362	239	213	260	266	423	532	503	460	376	489	410	330	308	407	361	391	380	9	2.2%	93%			
SWO	MED	CP	EU-Malta	LL	t2	-1	-1	-1	-1	-1	-1	ac	ac	ac	-1	-1	-1	abc	bc	ab	abc	ab	abc	ab	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	9				
SWO	MED	CP	Algerie	GN	t1	389	415	560	560	560	590	531	599	642	467	427	233	311	87	108																		10	1.7%	94%	
SWO	MED	CP	Algerie	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	10				
SWO	MED	CP	Türkiye	GN	t1	292	533	306	320	350	450	230	370	360	300	274	317	341	337	352																			11	1.4%	96%
SWO	MED	CP	Türkiye	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	11			
SWO	MED	CP	Türkiye	LL	t1											70	76	69	84	73	71	441	344	382	217	76	111	71	45	90	556	544	386	376	357	306	12	1.3%	97%		
SWO	MED	CP	Türkiye	LL	t2										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12				
SWO	MED	CP	EU-Italy	UN	t1																	329	921	694	718		0									13	0.7%	98%			
SWO	MED	CP	EU-Italy	UN	t2										b												b									13					
SWO	MED	CP	EU-Cyprus	LL	t1																																14	0.5%	98%		
SWO	MED	CP	EU-Cyprus	LL	t2	a	a	a	a	a	a	-1	a	-1	a	a	a	a	a	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	14			
SWO	MED	CP	Libya	LL	t1						11				8	6			10	2																	15	0.5%	99%		
SWO	MED	CP	Libya	LL	t2						-1	a	a																								15				
SWO	MED	CP	EU-France	LL	t1										12	27	20	19	22	20	14	14	10	73	39	10	58	119	178	172	108	83	69	104	91	60	16	0.4%	99%		
SWO	MED	CP	EU-France	LL	t2										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16				





Table 17. SAI-E stock

Score:		3.026		T1 Total	1814	1171	1231	1880	1347	1363	1342	1980	2805	2351	2639	2612	2220	1916	2577	2229	2129	1853	1553	1591	1339	1163	1246	1422	1631	936	2244	1176	1706	1110					
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum	
SAI	ATE	CP	Ghana	GN	t1	693	450	353	303	196	351	305	275	568	592	566	521	542	282	420	342	358	417	299	201	220	191	99	238	267	82	78	68	1	17.6%	18%			
SAI	ATE	CP	Ghana	GN	t2	-1	a		-1	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					
SAI	ATE	CP	Senegal	HL	t1	448	67	135	182	488	228	186	551	767	98	282	219	143	46	189	108	575	439	136	58	117	9	53		94	0	475	10	2	11.6%	29%			
SAI	ATE	CP	Senegal	HL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	a	a	a	ab	ab	a	a	a						2				
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t1	182	160	128	97	110	138	131	353	400	365	413	336	264	274	205	251	308	265	275	275	275	275	275							3	10.9%	40%		
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							3				
SAI	ATE	CP	EU-España	LL	t1	42	8	13	42	48	15	20	8	195	245	197	169	202	214	227	239	318	206	197	257	229	302	333	225	233	277	324	86	84	234	4	9.9%	50%	
SAI	ATE	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	4				
SAI	ATE	CP	S Tomé e Príncipe	TR	t1	81	88	92	96	139	141	141	136	136	136	136	515	346	292	384	114	119	121	124	127	131	134	312	212	219						5	8.5%	59%	
SAI	ATE	CP	S Tomé e Príncipe	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	5			
SAI	ATE	CP	Senegal	TR	t1	11	90	29	52	59	24	44	213	155	123	337	343	296	177	512	158	18														6	6.9%	65%	
SAI	ATE	CP	Senegal	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	6			
SAI	ATE	CP	Côte d'Ivoire	GN	t1	40	54	66	91	65	35	80	45	47	65	121	73	93	78	52	448	74	24	108	192	80	99	52	38	400	17	482	298	246	3	7	6.8%	72%	
SAI	ATE	CP	Côte d'Ivoire	GN	t2	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	ab	ab	ab	7		
SAI	ATE	CP	Senegal	GN	t1	2	3	3	6	3	5	0	8	28	19	15	1	22	27	28	180	35	45	38	85	21	26	7	373	87	67	132	339	497	407	8	4.8%	77%	
SAI	ATE	CP	Senegal	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	8			
SAI	ATE	CP	Japan	LL	t1	27	45	52	47	19	58	16	26	6	20	22	70	50	62	144	199	94	115	143	157	71	59	36	52	45	47	64	51	30	15	9	3.5%	81%	
SAI	ATE	CP	Japan	LL	t2	-1	a	ab	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	9			
SAI	ATE	CP	Liberia	GN	t1		33	85	43	136	122	154	56	133	127	106	122	118	115																	10	2.9%	83%	
SAI	ATE	CP	Liberia	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	10			
SAI	ATE	NCC	Chinese Taipei	LL	t1	157	38	58	24	56	44	66	45	50	62	49	15	25	36	109																	11	2.6%	86%
SAI	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	11		
SAI	ATE	CP	EU-Portugal	LL	t1					27	42	9	1	5	10	6	11	137	43	49	112	142	96	70	108	33	41	30	27	123	65	51	13	30	12	12	2.4%	88%	
SAI	ATE	CP	EU-Portugal	LL	t2					-1	a	a	a	1	a	a	a	a	a	a	ab	a	a	ab	ab	ab	a	ab	ab	ab	ab	ab	a	ab	a	12			
SAI	ATE	NCO	NEI (BIL)	LL	t1								28	269	408	213	55	1	105	43	20	11														13	2.3%	91%	
SAI	ATE	NCO	NEI (BIL)	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	13			
SAI	ATE	NCO	Cuba	LL	t1																															14	1.5%	92%	
SAI	ATE	NCO	Cuba	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	14			
SAI	ATE	CP	S Tomé e Príncipe	PS	t1																															15	1.3%	94%	
SAI	ATE	CP	S Tomé e Príncipe	PS	t2																																15		
SAI	ATE	NCO	NEI (ETRO)	LL	t1	27	51	57	69	86	127	120	77	43	3	2	16	7	8	10																	16	1.3%	95%
SAI	ATE	NCO	NEI (ETRO)	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	16		
SAI	ATE	CP	Côte d'Ivoire	LL	t1																																17	1.1%	96%
SAI	ATE	CP	Côte d'Ivoire	LL	t2																																17		
SAI	ATE	NCO	Togo	GN	t1					9	22	36	23	62	55	95	135	47	31	71																	18	1.1%	97%
SAI	ATE	NCO	Togo	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	18		

Table 18. SAI-W stock

		T1 Total	1414	1121	1214	1143	1257	1615	1580	1996	1798	2060	1498	1727	1839	1939	1562	1734	1626	1230	1337	1278	986	884	1005	1419	1436	1688	1476	1321	876	1029								
Score:	3.873																																				Rank	%	%cum	
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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		%	%cum		
SAI	ATW	CP	Venezuela	LL	t1	271	148	139	167	165	333	227	190	186	188	233	387	476	907	363	269	320	409	498	404	262	112	152	246	387	381	373	363	290	371	1	21.4%	21%		
SAI	ATW	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	-1	1			
SAI	ATW	CP	EU-España	LL	t1	13	19	36	5	20	42	7	14	309	414	183	160	89	134	214	361	412	275	190	184	203	244	311	207	454	256	228	57	67	240	2	12.4%	34%		
SAI	ATW	CP	EU-España	LL	t2	b	b	-1	b	b	-1	b	b	b	b	b	-1	b	b	-1	b	b	b	-1	-1	-1	-1	b	b	b	b	b	b	b	-1	b	b	2		
SAI	ATW	CP	Grenada	LL	t1	246	151	119	56	83	151	148	164	187	151	171	112	147	159	174	216	183	191	191	191	191	210	137	164	149	110	96	61	89	3	10.7%	44%			
SAI	ATW	CP	Grenada	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3			
SAI	ATW	CP	Brazil	LL	t1	201	60	97	76	69	106	278	531	412	325	347	208	415	82	59	75	73	70	135	106	76	57	72	59	39	43	17	28	24	10	4	9.6%	54%		
SAI	ATW	CP	Brazil	LL	t2	a	a	a	a	a	a	ab	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	ab	ab	a	a	a	4			
SAI	ATW	CP	Venezuela	GN	t1	60	65	41	88	114	182	140	71	64	88	93	122	131	135	186	113	96	89	92	139	79	118	73	58	156	153	108	33	119	90	5	7.2%	61%		
SAI	ATW	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	b	b	b	b	b	b	ab	ab	ab	ab	a	b	b	b	b	b	b	b	b	b	5			
SAI	ATW	CP	Brazil	UN	t1	21	41	143	224	67	78	78	67			222	238	326	0	58	60	193	360	1	0	0				0							6	5.1%	66%	
SAI	ATW	CP	Brazil	UN	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	6			
SAI	ATW	CP	USA	RR	t1	201	179	342	230	349	267	163	76	58	103	0	0	0	0	0	3	3	0	0	7	3	2	2	3	3	3	1	1	1	2	7	4.7%	71%		
SAI	ATW	CP	USA	RR	t2	ab	ab	b	ab	b	ab	b	b	b	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	ab	ab	7	4.6%	76%		
SAI	ATW	CP	Panama	LL	t1																															8				
SAI	ATW	CP	Panama	LL	t2																																8			
SAI	ATW	NCO	Dominican Republic	LL	t1					101	89	27	67	81	260	91	144	165	133	147																		9	3.0%	79%
SAI	ATW	NCO	Dominican Republic	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				
SAI	ATW	CP	Mexico	LL	t1	2	19	19	10	9	65	40	118	36	34	45	51	55	42	47		45	48	34	32	51	63	42	35	47	51	24	27	20	24	17	10	2.7%	81%	
SAI	ATW	CP	Mexico	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	abc	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab				
SAI	ATW	CP	Barbados	LL	t1	50	46	74	25	71	58	44	44	42	26	27	26	42	58	42				16	29	25	35	37	53	45	34	19	12	14	18	17	11	2.4%	84%	
SAI	ATW	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	-1			
SAI	ATW	NCO	NEI (BIL)	LL	t1								297	268							68	81	252	17													12	2.3%	86%	
SAI	ATW	NCO	NEI (BIL)	LL	t2																																12			
SAI	ATW	NCO	Cuba	LL	t1	42	46	37	37	40	28	196	208	68	32	18	50	72	47	56																		13	2.3%	88%
SAI	ATW	NCO	Cuba	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	13		
SAI	ATW	CP	Trinidad and Tobago	LL	t1	1	2	1	4	10	25	37	3	7	6	7	10	9	17	13		32	16	16	32	60	28	23	51	48	58	46	51	42	43	37	14	1.7%	90%	
SAI	ATW	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a			
SAI	ATW	NCC	Chinese Taipei	LL	t1	112	117	19	19	2	65	17	11	33	31	13	8	21	5	14	10	11	6	8	27	6	3	6	5	5	6	5	7	2	1	15	1.4%	91%		
SAI	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab			
SAI	ATW	CP	St Vincent and Grenadines	LL	t1								2	164	3	86	73	59	18	13	8	7	4	4	3	4	1	85	8	10	5	17	0	0	16	1.3%	93%			
SAI	ATW	CP	St Vincent and Grenadines	LL	t2																																16			
SAI	ATW	CP	USA	LL	t1	65	29	30	69	57	27	72	45	11	7	5	7	3	5	7	9	10	4	10	18	11	11	6	7	6	6	5	3	2	2	17	1.3%	94%		
SAI	ATW	CP	USA	LL	t2	a	a	a	a	a	a	a	a	ac	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab			
SAI	ATW	CP	EU-Portugal	LL	t1											12	12	110	18	53	101	20	19	9	2					1	37	9	3	0	1	18	1.0%	95%		
SAI	ATW	CP	EU-Portugal	LL	t2																																	18		
SAI	ATW	NCO	NEI (ETRO)	LL	t1	15	27	30	36	46	67	64	41	23	1	1	9	4	4	6																		19	0.9%	96%
SAI	ATW	NCO	NEI (ETRO)	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	19		
SAI	ATW	CP	Japan	LL	t1	1	8	2	4	17	3	10	12	3	3	10	5	22	4	1	33	43	36	12	16	7	11	12	13	7	3	18	3	7	8	20	0.8%	97%		
SAI	ATW	CP	Japan	LL	t2	-1	a	a	a	ab	ab	ab	a	ab	a	ab	a	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	20		
SAI	ATW	CP	Belize	LL	t1												5		12				52	8	7	4	3		11	19	62	104	4							

Table 19. SPF-E stock

		T1 Total	419	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	202	179	202								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum		
SPF	ATE	NCC	Chinese Taipei	LL	t1	263	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	1	30.7%	31%		
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	a	a	ab	ab	ab	ab	ab	2	24.7%	55%
SPF	ATE	CP	Japan	LL	t1	31	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	5	2	2	18.7%	74%		
SPF	ATE	CP	Japan	LL	t2	b	ab	ab	a	a	ab	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	3	17.7%	92%		
SPF	ATE	CP	EU-España	LL	t1	12		5	1	1	9	31	17	9	6	5		3	3		2	7	32	12	10	9	13	17	10	13	13	19	164	100	158	3				
SPF	ATE	CP	EU-España	LL	t2	b		-1	b	b	b	b	b	b	b	b		b	b		-1	b	b	-1	-1	b	b	-1	-1	a	b	-1	b	b	-1	4	17.7%	92%		
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	112	98	78	59	68	86	81	60																							4	17.7%	92%		
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1																								4			
SPF	ATE	CP	EU-Portugal	LL	t1												24	8	2	6	25	9	20						1	4	26	22	73	40	5	7.2%	99%			
SPF	ATE	CP	EU-Portugal	LL	t2												a	a	a	a	a	a	a	-1				-1	a	a	a	a	a	-1	5					
SPF	ATE	CP	St Vincent and Grenadines	LL	t1																								10						6	0.3%	99%			
SPF	ATE	CP	St Vincent and Grenadines	LL	t2												a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	6				
SPF	ATE	CP	Senegal	LL	t1																																7	0.2%	100%	
SPF	ATE	CP	Senegal	LL	t2																		a														7			
SPF	ATE	CP	Korea Rep	LL	t1		1	1	1	3	1																										8	0.2%	100%	
SPF	ATE	CP	Korea Rep	LL	t2	-1	-1	-1	-1	a																											8			
SPF	ATE	CP	China PR	LL	t1							2																									9	0.1%	100%	
SPF	ATE	CP	China PR	LL	t2						-1																										9			
SPF	ATE	NCO	NEI (BIL)	LL	t1																					0	0	0	0	1	1					9	0.1%	100%		
SPF	ATE	NCO	NEI (BIL)	LL	t2																																10	0.1%	100%	
SPF	ATE	NCO	NEI (BIL)	LL	t2																																10			

Table 20. SPF-W stock

		T1 Total	123	123	33	38	7	78	51	99	108	96	79	140	105	264	104	109	64	120	80	60	353	36	62	62	322	138	58	69	283	245									
Score:	3.286																													Rank	%	%cum									
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum			
SPF	ATW	CP	EU-España	LL	t1		5	1		0	0	22	47	20	5	21		5	14		2	5		10	10	9	11	19	14	259	19	17	52	276	236	1	30.7%	31%			
SPF	ATW	CP	EU-España	LL	t2	-1	b	-1	b	b	-1	b	b	b	b	b		b	b		-1	b	b	-1	-1	b	b	-1	-1	b	-1	-1	b	-1	-1	1					
SPF	ATW	NCC	Chinese Taipei	LL	t1	111	116	19	18	2	64	16	11	24	39	12	11	20	17	20	0		5	12	3	1	3	3	1	2	2	5	4	2	3	2	15.6%	46%			
SPF	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		ab	ab	ab	a	ab	a	a	ab	ab	ab	ab	ab	ab	2				
SPF	ATW	CP	Brazil	LL	t1								27	56	39	3		0	5	4																3	13.7%	60%			
SPF	ATW	CP	Brazil	LL	t2								-1	-1	-1	a	a	a	a	ab	a	ab	a	a	a		-1									3					
SPF	ATW	CP	St Vincent and Grenadines	LL	t1								82																								4	12.8%	73%		
SPF	ATW	CP	St Vincent and Grenadines	LL	t2																																4				
SPF	ATW	CP	Japan	LL	t1	1	2	3	4	1	8	11	11	3	12	40																						5	12.3%	85%	
SPF	ATW	CP	Japan	LL	t2	-1	a	a	a	a	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	ab	a	a										5			
SPF	ATW	CP	Venezuela	LL	t1	3	1		2	1	5	1	2	5	1	3	7	21	13	17	5	16	28	11	25	11	13	32	35	6	10	4	3	2	5	6	8.3%	93%			
SPF	ATW	CP	Venezuela	LL	t2	ab	ab	b	a	ab	ab	ab		-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	6				
SPF	ATW	CP	EU-Portugal	LL	t1																																	7	4.1%	97%	
SPF	ATW	CP	EU-Portugal	LL	t2																																	7			
SPF	ATW	CP	Korea Rep	LL	t1	2	4	4	10	4																												8	0.7%	98%	
SPF	ATW	CP	Korea Rep	LL	t2	-1	-1	-1	-1	-1																												8			
SPF	ATW	CP	Brazil	HL	t1																																	9	0.6%	99%	
SPF	ATW	CP	Brazil	HL	t2																																	9			
SPF	ATW	CP	Belize	LL	t1																																		10	0.4%	99%
SPF	ATW	CP	Belize	LL	t2																																		10		
SPF	ATW	CP	Mexico	LL	t1									1																									11	0.3%	100%
SPF	ATW	CP	Mexico	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	a	a	a	a	a	a	a	a	a	11			

Table 21. BSH-N region

		T1 Total	9591	8605	8472	6740	29271	26668	26122	28161	21151	20458	23184	22054	22660	23517	27070	30882	35354	38929	40292	38912	37813	38131	40191	44085	40004	33979	27212	20963	21883	22057										
Score:	4.556																														Rank	%	%cum									
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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							
BSH	ATN	CP	EU-España	LL	t1					24497	22504	21811	24112	17362	15666	15975	17314	15006	15464	17038	20788	24465	26094	27988	28666	28562	29041	30078	29019	27316	21685	16314	12325	13125	13057	1	68.2%	68%				
BSH	ATN	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	2						
BSH	ATN	CP	EU-Portugal	LL	t1	5726	4669	4722	4843	2630	2440	2227	2081	2110	2265	5642	2023	4026	4337	5283	6164	6248	8256	6508	3768	3694	2994	3808	7679	5610	5162	4475	3806	4248	4079	2	16.1%	84%				
BSH	ATN	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	ab	ab	2						
BSH	ATN	CP	Japan	LL	t1	1203	1145	618	489	340	357	273	350	386	558	1035	1729	1434	1921	2531	2007	1763	1227	2437	1808	3287	4011	4217	4444	4111	3855	2288	2020	2243	3	6.6%	91%					
BSH	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	3						
BSH	ATN	CP	Canada	LL	t1	1702	1260	1494	528	831	612	547	624	581	836	346	965	1134	977	843	0	0	0	0	1	0	1	5	16	32	71	4	193	173	365	4	1.7%	93%				
BSH	ATN	CP	Canada	LL	t2	-1	-1	-1	a	a	a	a	a	-1	a	a	a	a	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	4						
BSH	ATN	CP	Maroc	LL	t1																			661	975	1072	999	1389	300	760	600	669	609	599	654	915	5	1.3%	94%			
BSH	ATN	CP	Maroc	LL	t2																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5						
BSH	ATN	CP	Panama	LL	t1						9												254	892	613	1575	1026	1071	1224	289	153	555	262	324	437	242	162	84	111	6	1.1%	95%
BSH	ATN	CP	Panama	LL	t2						-1												a	a	a	a	a	a	a	a	a	a	a	a	a	a	6					
BSH	ATN	CP	Maroc	PS	t1																																7	0.8%	96%			
BSH	ATN	CP	Maroc	PS	t2																																7					
BSH	ATN	CP	Belize	LL	t1																																	8				
BSH	ATN	CP	Belize	LL	t2																																	8	0.7%	97%		
BSH	ATN	NCC	Chinese Taipei	LL	t1		487	167	132	203	246	384	165	59	203	171	206	240	588	292	110			114	461	1039	903	1216	392	4	6	201	317	369	301	349	311	8				
BSH	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	9	0.6%	97%		
BSH	ATN	CP	USA	LL	t1	1146	582	623	50	162	92	41	113	106	68																							9				
BSH	ATN	CP	USA	LL	t2	ab	ab	ab	ab	ab	ab	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	ab	10	0.6%	98%	
BSH	ATN	CP	USA	RR	t1	672	21	19	277	210	252	217	291	39	182	171	131	161	154	149	155	153	58	40	40	43	19	32	31	22	15	17	8	9				11	0.4%	98%		
BSH	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	11				
BSH	ATN	CP	EU-France	LL	t1						138	106	259	257	135	144	37	65	78	65	111	47	30	77	66	18	173	92	203	286	62	51	33	17	18	25	12	0.3%	99%			
BSH	ATN	CP	EU-France	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	12				
BSH	ATN	CP	China PR	LL	t1											185	104	148	146	132	142	367	109	88	53	109	98	327	178	1	27	2	6	18	65	2	13	13	0.3%	99%		
BSH	ATN	CP	China PR	LL	t2											-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	13				
BSH	ATN	CP	Korea Rep	LL	t1																																	14	0.2%	99%		
BSH	ATN	CP	Korea Rep	LL	t2																																	14				
BSH	ATN	CP	Venezuela	LL	t1	23	17	15	4	26	6	47	42	46	28	38	9	26	10	18	7	71	74	116	96	51	111	129	116	105	111	55	59	11	9	15	0.2%	99%				
BSH	ATN	CP	Venezuela	LL	t2	-1	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	15					



Table 22. BSH-5 region

		T1 Total		10	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	37317	33709	33471	31727							
Score:	5.571																															Rank	%	%cum						
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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					
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	1	45.7%	46%			
BSH	ATS	CP	EU-Portugal	LL	t1			847	867	1336	876	1110	2134	2562	2324	1841	1863	3184	2751	4493	4866	5358	6338	7642	2424	1646	1622	2420	5609	6663	8015	6753	7350	5524	6092	2	17.2%	63%		
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	a	ab	a	2				
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	3	9.8%	73%			
BSH	ATS	CP	Brazil	LL	t2			-1	a	-1	-1	ab	a	a	a	a	a	ab	a	ab	a	ab	a	ab	a	a	a	a	a	a	ab	ab	ab	ab	a	3				
BSH	ATS	CP	Namibia	LL	t1							0			2213	2316	1906	6616	3536	3419	1829	207	2351	2633	1176	1147	2471	2137	2775	1357	3290	2474	3950	3237	4694	4	9.2%	82%		
BSH	ATS	CP	Namibia	LL	t2						-1				a	-1	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	ab	ab	ab	ab	ab	ab	4					
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	5	6.8%	89%	
BSH	ATS	NCC	Chinese Taipei	LL	t2			-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	5				
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	1487	1078	6	6.2%	95%	
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	6				
BSH	ATS	CP	Uruguay	LL	t1			10	84	57	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130								7	0.9%	96%		
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	7				
BSH	ATS	CP	Ghana	GN	t1																															8	0.9%	97%		
BSH	ATS	CP	Ghana	GN	t2																																8			
BSH	ATS	CP	South Africa	LL	t1						23	21			82	63	232	128	154	90	82	126	119	112	317	158	179		1583	385	429	467	407	387	382	408	932	9	0.8%	97%
BSH	ATS	CP	South Africa	LL	t2						-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	9			
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	10	0.7%	98%		
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	10				
BSH	ATS	CP	Belize	LL	t1													37	259	99	236	109	148	273	243	483	234	171	105	167	200	222	165	15	21	11	0.5%	99%		
BSH	ATS	CP	Belize	LL	t2													a	a	a	a	a	-1	a	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	11			
BSH	ATS	CP	S Tomé e Príncipe	PS	t1																																12	0.3%	99%	
BSH	ATS	CP	S Tomé e Príncipe	PS	t2																																12			
BSH	ATS	CP	Korea Rep	LL	t1																																13	0.2%	99%	
BSH	ATS	CP	Korea Rep	LL	t2																																13			

Table 23. POR-NE region

			T1 Total	777	1045	749	428	444	371	424	567	506	610	527	578	367	302	421	391	349	21	14	25	10	5	8	9	8	4	0	3	5	15								
Score:	0.493																																					Rank	%	%cum	
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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						
POR	ANE	CP	EU-France	UN	t1	633	820	565	267	315	219	240	410	361	461	303	194	276	194	83	83	153															1	62.1%	62%		
POR	ANE	CP	EU-France	UN	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			
POR	ANE	CP	EU-Denmark	UN	t1	91	93	86	72	69	85	107	73	76	42	21	20	4	3	2	1																	2	9.4%	72%	
POR	ANE	CP	EU-Denmark	UN	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	2			
POR	ANE	CP	EU-France	LL	t1													185			271	184	46														3	7.7%	79%		
POR	ANE	CP	EU-France	LL	t2																																3				
POR	ANE	CP	EU-España	LL	t1	21	52	19	41	25	25	18	13	24	54	27	11	14	34	8	41	77																4	5.6%	85%	
POR	ANE	CP	EU-España	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	4			
POR	ANE	CP	Norway	UN	t1	24	24	26	28	17	27	32	22						19			1	8	9	6	12	11	17										5	3.1%	88%	
POR	ANE	CP	Norway	UN	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	ANE	CP	EU-Portugal	LL	t1	1	1	1	1	1	1	0	7	4	10	101	50	14	6	0	3	17	7	0	0													6	2.5%	90%	
POR	ANE	CP	EU-Portugal	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	6			
POR	ANE	NCO	Faroe Islands	LL	t1	48	44	8	9	7	10	13	8	10	14	5	19	21																				7	2.4%	93%	
POR	ANE	NCO	Faroe Islands	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	7			
POR	ANE	CP	Great Britain	UN	t1						1	6	8	12	10	25	24																					8	1.0%	94%	
POR	ANE	CP	Great Britain	UN	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	8			
POR	ANE	CP	Norway	GN	t1																8	26	1	2	2													9	0.9%	95%	
POR	ANE	CP	Norway	GN	t2																																	9			
POR	ANE	CP	EU-Ireland	UN	t1							8	2	6	3	11	18	3	4	8	7	0																10	0.8%	96%	
POR	ANE	CP	EU-Ireland	UN	t2																																	10			
POR	ANE	CP	EU-France	TW	t1																																	11	0.7%	96%	
POR	ANE	CP	EU-France	TW	t2																																	11			
POR	ANE	CP	Great Britain	GN	t1																																	12	0.6%	97%	
POR	ANE	CP	Great Britain	GN	t2																																	12			
POR	ANE	CP	Norway	LL	t1																																	13	0.5%	97%	
POR	ANE	CP	Norway	LL	t2																																	13			
POR	ANE	CP	EU-Germany	UN	t1	1					2	0	17	1	3	5	7	5	0																			14	0.5%	98%	
POR	ANE	CP	EU-Germany	UN	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	14			
POR	ANE	CP	Iceland	GN	t1	2	4	6	5	3	3	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0.4%	98%
POR	ANE	CP	Iceland	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	15		
POR	ANE	CP	EU-France	GN	t1																																	16	0.3%	99%	
POR	ANE	CP	EU-France	GN	t2																																		16		

Table 24. POR-NW region

		T1 Total	1462	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							
Species	Stock	Status	FlagName	GearGrp	Dset	1993	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	Rank	%	%cum	
POR	ANW	CP	Canada	LL	t1	919	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	1	82.3%	82%	
POR	ANW	CP	Canada	LL	t2	-1	-1	-1	a	a	a	a	a	-1	a	a	a	-1	a	a	a	abc	ab	ab	ab	ab	ab	a	ab	ab	a	a	a	a	a	1	4.2%	86%	
POR	ANW	CP	Japan	LL	t1	35	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2			
POR	ANW	NCO	Faroe Islands	LL	t1	465																													3	3.5%	90%		
POR	ANW	NCO	Faroe Islands	LL	t2																															3			
POR	ANW	CP	USA	LL	t1	38	80	26	58	41	7	0	1	0	1	0	0	0	0	0	0	0	2	3	2	1	2	7	34	1	9	1	0	0	4	2.4%	92%		
POR	ANW	CP	USA	LL	t2	ab	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	a	ab	a	a	4			
POR	ANW	NCC	Chinese Taipei	LL	t1	4	10	12	27	18	13	27	19	18	22	12	8	7	5	3	2	2	5	8	15	51	2	15	8							5	2.3%	95%	
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	5			
POR	ANW	CP	Venezuela	LL	t1	2	4	1	7	2	8	9	6	2	0	0							1	4	4	10	20	7	20	8	15	9			6	1.6%	96%		
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	6			
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				7	1.1%	97%	
POR	ANW	CP	Canada	GN	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ac	a	a	a	a	a	a	a	a	a	a	a	7				
POR	ANW	CP	FR-St Pierre et Miquelon	LL	t1		7	40	13	20			13	2	1	2	4						1													8	0.8%	98%	
POR	ANW	CP	FR-St Pierre et Miquelon	LL	t2	-1	-1	-1	-1			-1	-1	-1	-1	-1																				8			
POR	ANW	CP	USA	RR	t1																			1	7	19	27	6	8	4	8	3	12	5	1	0	9	0.8%	99%
POR	ANW	CP	USA	RR	t2																			-1	-1	-1	-1	-1	-1	b	b	b	b	b	ab	9			
POR	ANW	CP	Canada	TW	t1		1	2	4	3	2	1	1	1	1	1	1	2	2	0	0	1	0	1	2	3	0	2	2	2	3	4	6	3	10	0.4%	99%		
POR	ANW	CP	Canada	TW	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ac	a	ab	a	a	a	a	a	a	a	a	a	a	10			
POR	ANW	CP	Korea Rep	LL	t1																		1	1	1	13	21	3	0							11	0.3%	100%	
POR	ANW	CP	Korea Rep	LL	t2																		-1	-1	-1	-1	-1	-1	-1							11			
POR	ANW	CP	Barbados	LL	t1				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	13	2	5	2	2	2	2		12	0.3%	100%	
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	12		
POR	ANW	CP	USA	GN	t1				0		2	2	0	1																						13	0.0%	100%	
POR	ANW	CP	USA	GN	t2				-1		-1	-1	-1	-1																							13		

Table 25. POR-SE region

		T1 Total	0	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								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum	
POR	ASE	CP	Japan	LL	T1				3	13										5	29	25	6	7	25	15	13	3	1	0				1	63.2%	63%			
POR	ASE	CP	Japan	LL	T2				-1	-1										-1	-1	a	a	a	a	a	a	a	a						2	13.6%	77%		
POR	ASE	CP	EU-España	LL	T1				2	1	2				1	1	9	3		0	1	11													3	10.8%	88%		
POR	ASE	CP	EU-España	LL	T2				-1	-1	-1				-1	-1	-1	-1		-1	-1	-1													4	7.9%	95%		
POR	ASE	CP	Ghana	PS	T1																					25									5	3.4%	99%		
POR	ASE	CP	Ghana	PS	T2																					-1									6	0.6%	99%		
POR	ASE	CP	Korea Rep	LL	T1																				14										7	0.4%	100%		
POR	ASE	CP	Korea Rep	LL	T2																					abc		b		ab	a				8	0.2%	100%		
POR	ASE	NCO	Benin	UN	T1				4	0	4																								9	0.0%	100%		
POR	ASE	NCO	Benin	UN	T2				-1	-1	-1																									10	0.0%	100%	
POR	ASE	NCC	Chinese Taipei	LL	T1																															11	0.0%	100%	
POR	ASE	NCC	Chinese Taipei	LL	T2																																12	0.0%	100%
POR	ASE	CP	EU-Portugal	LL	T1																																13	0.0%	100%
POR	ASE	CP	EU-Portugal	LL	T2																																13	0.0%	100%
POR	ASE	CP	Guinea Ecuatorial	HL	T1																																13	0.0%	100%
POR	ASE	CP	Guinea Ecuatorial	HL	T2																																13	0.0%	100%
POR	ASE	CP	EU-España	PS	T1																																13	0.0%	100%
POR	ASE	CP	EU-España	PS	T2																																13	0.0%	100%
POR	ASE	CP	Curacao	PS	T1																																13	0.0%	100%
POR	ASE	CP	Curacao	PS	T2																																13	0.0%	100%
POR	ASE	CP	Guatemala	PS	T1																																13	0.0%	100%
POR	ASE	CP	Guatemala	PS	T2																																13	0.0%	100%
POR	ASE	CP	El Salvador	PS	T1																																13	0.0%	100%
POR	ASE	CP	El Salvador	PS	T2																																13	0.0%	100%
POR	ASE	CP	Panama	PS	T1																																13	0.0%	100%
POR	ASE	CP	Panama	PS	T2																																13	0.0%	100%

Table 26. POR-SW region

		T1 Total	213	284	170	327	159	261	172	214	141	181	187	105	133	122	143	55	26	10	14	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum				
POR	ASW	NCC	Chinese Taipei	LL	t1	85	146	57	168	65	170	73	84	29	93	95	39	43	47	99			2													1	44.1%	44%				
POR	ASW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		a														1					
POR	ASW	CP	Brazil	LL	t1	60	32	49	33	36	38	58	60	67	74	49	37	52	32	23																		2	23.9%	68%		
POR	ASW	CP	Brazil	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a		-1	-1	-1	-1		a															2				
POR	ASW	CP	Uruguay	LL	t1	7	5	3	19	5	14	3	4	20	8	34	8	28	34	3	40	14																3	9.6%	78%		
POR	ASW	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a		b	a															3				
POR	ASW	CP	EU-España	LL	t1	32	35	43	28	25	1	12	7	13	1	0	0	0	3	5	3	2																4	7.2%	85%		
POR	ASW	CP	EU-España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																4				
POR	ASW	NCO	NEI (Flag related)	LL	t1	10	22	8	46	23	37	11	15	3	1																							5	6.0%	91%		
POR	ASW	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																							5				
POR	ASW	CP	Japan	LL	t1	13	14	6	6	1	1	1	7	4	3	2	11	3	3	4	12	10	2						0										6	3.5%	94%	
POR	ASW	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		a	a														6			
POR	ASW	CP	China PR	LL	t1	0	1	0					13	36	4			5	4	2	2	6																	7	2.5%	97%	
POR	ASW	CP	China PR	LL	t2	-1	-1	-1					-1	-1	-1			-1	-1	-1	-1	-1																	7			
POR	ASW	CP	Panama	LL	t1	6	24	4	21	3			0	1																									8	2.0%	99%	
POR	ASW	CP	Panama	LL	t2	-1	-1	-1	-1	-1			-1	-1																									8			
POR	ASW	CP	Korea Rep	LL	t1	1	2	1	6	1																													9	0.5%	99%	
POR	ASW	CP	Korea Rep	LL	t2	-1	-1	-1	-1	-1																														9		
POR	ASW	CP	EU-Portugal	LL	t1					1						1	1	1	4	1		3																	10	0.4%	100%	
POR	ASW	CP	EU-Portugal	LL	t2					-1						-1	-1	-1	a	a																			10			

Table 27. SMA-N region

			T1 Total	4114	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	1196	831							
Score:	4.476																																					Rank	%	%cum
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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					
SMA	ATN	CP	EU-España	LL	t1	1964	2164	2209	3294	2416	2223	2051	1561	1684	2047	2068	2088	1751	1918	1814	1895	2216	1667	2308	1509	1481	1362	1574	1784	1165	866	870	585	588	1	51.7%	52%			
SMA	ATN	CP	EU-España	LL	t2	b	-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	b	-1	1			
SMA	ATN	CP	EU-Portugal	LL	t1	796	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	2	18.3%	70%		
SMA	ATN	CP	EU-Portugal	LL	t2	-1	-1	a	a	a	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	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	7.6%	78%			
SMA	ATN	CP	Maroc	LL	t2											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	-1	a	ab	ab	ab	ab	ab	ab	3				
SMA	ATN	CP	USA	RR	t1	667	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	7.6%	85%		
SMA	ATN	CP	USA	RR	t2	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	-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	425	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	18	13	5	5.6%	91%
SMA	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a	a	a	a	a	a	a	a	a	-1	-1	-1	5			
SMA	ATN	CP	USA	LL	t1	249	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	6	3.9%	95%		
SMA	ATN	CP	USA	LL	t2	ab	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	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	7	1.6%	96%	
SMA	ATN	CP	Canada	LL	t2				a	a	a	a	a	a	a	a	a	a	a	a	a	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	7		
SMA	ATN	NCC	Chinese Taipei	LL	t1	9	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	8	0.8%	97%		
SMA	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	a	a	a	a	a	-1	-1	-1	-1	8		
SMA	ATN	CP	Maroc	PS	t1																			30	26	51	44	140	50	130	172	144					9	0.8%	98%	
SMA	ATN	CP	Maroc	PS	t2																			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9			
SMA	ATN	CP	Belize	LL	t1																		23	28	69	114	99	1	1	1	9	12	2			3	10	0.4%	98%	
SMA	ATN	CP	Belize	LL	t2																		ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	-1	10		
SMA	ATN	CP	Venezuela	LL	t1	1	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	8	3	1	11	0.3%	99%		
SMA	ATN	CP	Venezuela	LL	t2	-1	b	b	b	b	b	b	b	b	b	b	b	ab	a	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	a	a	a	a	a	11		
SMA	ATN	CP	China PR	LL	t1																		81	16	19	29	18	24	11	5	2	4	2			5	0.2%	99%		
SMA	ATN	CP	China PR	LL	t2																		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	12		
SMA	ATN	CP	Canada	GN	t1																																	13	0.2%	99%
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	13		

Table 28. SMA-S region

		T1 Total	1743	2182	3100	2395	2187	2008	1606	2588	2107	2103	3235	2526	3259	3036	2786	1881	2063	2486	3258	2905	2183	3274	2774	2765	2786	3158	2309	2857	2256	2485								
Species	Stock	Status	FlagName	GearGrp	DSet	1993	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	Rank	%	%cum		
SMA	ATS	CP	EU-España	LL	t1	772	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	1	37.6%	38%		
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	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	2	16.3%	54%		
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	3	10.1%	64%		
SMA	ATS	CP	EU-Portugal	LL	t2																																			
SMA	ATS	CP	Brazil	LL	t1	122	95	119	83	190	233	27	219	409	226	283	177	426	183	152	121	92	128	179	193	276	256	172	124	275	396	739	542	477	555	4	9.8%	74%		
SMA	ATS	CP	Brazil	LL	t2																																			
SMA	ATS	CP	Japan	LL	t1	701	1369	1617	514	244	267	151	264	56	133	118	398																							
SMA	ATS	CP	Japan	LL	t2																																			
SMA	ATS	CP	South Africa	LL	t1	43	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	6	5.9%	89%		
SMA	ATS	CP	South Africa	LL	t2																																			
SMA	ATS	NCC	Chinese Taipei	LL	t1	31	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	7	4.8%	94%		
SMA	ATS	NCC	Chinese Taipei	LL	t2																																			
SMA	ATS	CP	China PR	LL	t1	34	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																																			
SMA	ATS	CP	Uruguay	LL	t1	28	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																																			
SMA	ATS	CP	Côte d'Ivoire	GN	t1	10	20	13	15	23	10	10	9	15	15	30	15	14	16	25						19	33	19	11	13	161	4	8	7						
SMA	ATS	CP	Côte d'Ivoire	GN	t2																																			
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																																			

Appendix 2 - Table 1. Summary of FAD information received in FAD Management Plans and ST08 forms for 2022 (some datasets could require revisions).

Appendice 2 - Tableau 1. Résumé des informations sur les DCP reçues dans les plans de gestion des DCP et les formulaires ST08 au titre de 2022 (certains jeux de données pourraient nécessiter des révisions).

Apéndice 2 - Tabla 1. Resumen de la información sobre DCP recibida en los planes de ordenación de DCP y en los formularios ST08 para 2022 (algunos conjuntos de datos requieren revisión).

Tropical Tunas Fishing Management Plan 2023	FAD Management Plan	Reported 2022 FAD Data on ST-08	Notes
Belize	EU France	Belize*	
Brazil	EU Spain	Cape Verde**	
China		Curacao	
Curacao		EU Spain	
El Salvador		EU France	
EU		Guatemala	
Ghana		Maroc	
Guatemala		Panama	
Japan		Ghana*	
Korea		El Salvador	
Maroc		Guinée Rep	
Nicaragua		Canada	NO FOB/FAD fisheries
Panama		FR-St Pierre et Miquelon	NO FOB/FAD fisheries
Republique Guinee		Mexico	NO FOB/FAD fisheries
Trinidad and Tobago		Philippines	NO FOB/FAD fisheries
United Kindom OT Sta Helena, Turks & Caicos, BVI, Bermuda		Mexico	NO FOB/FAD fisheries
Venezuela		Korea	NO FOB/FAD fisheries
Chinese-Taipei		FR-St Pierre et Miquelon	NO FOB/FAD fisheries
Costa Rica		Great Britain	NO FOB/FAD fisheries
		UK OT Bermuda	NO FOB/FAD fisheries
		UK OT Sta Helena	NO FOB/FAD fisheries
		UK OT Turks and Caicos	NO FOB/FAD fisheries
		UK OT Virgin Islands	NO FOB/FAD fisheries

\* On review

\*\* No information provided



Appendix 2 - Table 2 . Summary of FAD HISTORIC information received by Secretariat during the Reporting Period.

Appendice 2 - Tableau 2. Résumé de l'information historique sur les DCP reçue par le Secrétariat pendant la période de déclaration.

Apéndice 2 - Tabla 2. Resumen de la información histórica sobre DCP recibida por la Secretaría durante el periodo de comunicación.

<b>Flag Provider</b>	<b>Historic Data Years</b>	<b>Format reported</b>	<b>Notes</b>
Saint Lucia		2021 ST08 e form	

**Appendix 3.** Summary of Domestic Observer Program information

**Appendice 3.** Résumé de l'information sur les Programmes Nationaux d'Observateurs.

**Apéndice 3.** Resumen de la información sobre los Programas nacionales de observadores.

CPC	Start year	Fisheries monitored (1 or more)	Coverage	Percent Coverage	Coverage based on
Algeria	2019	LL			25 Percent of the catch
Belize	2018	LL, PS			7,100 No. of Trips
Brazil	2021	LL			1 No. of sets
Canada	2018	LL			3 No. days
Capo Verde	2005	PS			100 No. Trips
China	2009	LL			11 No. of sets
Chinese Taipei	2002	LL			4 No. of days
Curacao	2018	PS			35 No. of sets
El Salvador	2018	PS			100 No. of vessels
EU. Portugal	2011	LL, TP			1 No. of sets
EU.Croatia	2013	PS,RR,LL		100,6,8	No. of sets, no. of days, no. of days
EU.Cyprus	2006	LL			1 No. of days
EU.France	2005	PS			100 No. of sets
EU.Greece	NA	LL			5 No. of trips
EU.Ireland	2021				
EU.Italy	2016	LL, TP		-	No. of vessels
EU.Malta	2008	LL			0.37 No. of days
EU.Portugal	2011	LL			3 No. of sets
EU.Portugal Madeira	2018	BB, HL			11 No. of Vessels
EU.Spain	2003	PS, LL		74, NA	No. of sets
Gabon	2016	TW			28 No. of hauls
Ghana	2006	PS, BB			67 No. of vessels
Guatemala		PS			13 No. of Trips
Japan	1992	LL			2 No. of sets
Korea	2002	LL			16 No. of sets
Maroc	2018	LL			5 No. of sets
Mexico	2018	LL			100 No. of trips
Norway	2018	LL, PS			7 No. of sets
Panama	2022	PS			100 No. of trips
Russia	2018	TW			18 No. of days
South Africa	2012	LL			10 no. of sets
Tunisia	2012	PS			10 No. of trips
Turkey	2012	LL			100 No. of trips
UK-SHN	2021	RR			5 No. of days
UK-BMU	2022	LL			6 No. of trips
UK-TCA	2022				
USA	1992	LL			15 No. of sets
Venezuela	2019	PS			5 No. of sets

**Appendix 4.** CPCs reporting in form ST09-DomObPrg data for the reporting period.

**Appendice 4.** CPC déclarant dans le formulaire ST09-DomObPrg les données pendant la période de déclaration.

**Apéndice 4.** CPC que comunicaron en el formulario ST09-DomObPrg datos durante el período de comunicación.

**FlagName**

Belize  
Brazil  
Canada  
China PR  
Chinese Taipei  
Curaçao  
Egypt  
El Salvador  
EU-Croatia  
EU-Cyprus  
EU-España  
EU-France  
EU-Greece  
EU-Ireland  
EU-Italy  
EU-Malta  
EU-Portugal  
Guatemala  
Japan  
Korea Rep  
Maroc  
Mexico  
Norway  
Panama  
Russian Federation  
South Africa  
Tunisie  
UK-Bermuda  
UK-Sta Helena  
USA  
Venezuela

Appendix 5 - Table 1. Summary of the number of reported Tropical fisheries support vessels information received in ST07 forms for 2022 (some datasets could require revisions).  
 Appendice 5 - Tableau 1. Résumé des informations sur le nombre du bateaux et les formulaires ST07 au titre de 2022 (certains jeux de données pourraient nécessiter des révisions).  
 Apéndice 5 - Tabla 1. Resumen de la información sobre el número de barcos de apoyo de pesquerías tropicales en los formularios ST07 para 2022 (algunos conjuntos de datos requieren revisión).

N Support Vessels			Year									
Flag Status	PartyName	FlagA3ISO	2010	2013	2014	2016	2018	2019	2020	2021	2022	
CP	BELIZE	BLZ				1		4	3	2	1	
	CANADA	CAN	0								0	
	CURAÇAO	CUW		1	1			2	2	1	3	
	EL SALVADOR	SLV							1	1	1	
	EUROPEAN UNION	ESP							4		3	2
		FRA							0	0	0	
		GBR							0	0		
	FRANCE (St-Pierre et Miquelon)	SPM						0		0	0	
	GUINÉE REP.	GIN								0		
	LIBYA	LBY					0					
	MEXICO	MEX							0	0	0	
	NIGERIA	NGA									0	
	PANAMA	PAN							4	1	3	2
	PHILIPPINES	PHL									0	
	SENEGAL	SEN							1			
	UNITED KINGDOM	BMU							0	0	0	
		SHN							0	0	0	
		TCA						0	0	0		
		VGB							0	0	0	
NCC	Bolivia	BOL					0	0	0			
NCO	Non-contracting parties	LCA						0				
<b>Total number support vessels</b>			<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>15</b>	<b>7</b>	<b>10</b>	<b>9</b>	

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1. **Ortiz M., Mayor C.** Summary and Review of The Fob/Fads Deployed St08-Fadsdep Iccat Database 2011 – 2021. SCRS/2023/023
2. Rouyer T., Cabello M., **Tensek S., Pagá-García A, Alemany F.**, Lauretta M., and Arrizabalaga H. Revisiting Hypotheses of Population Structure Within the Mediterranean in the Light of Newly Available Electronic Tagging Studies. SCRS/2023/030
3. **Kimoto A., Ortiz M., Palma C., and Mayor C.** Update of Input Data (Catch and Size) For the North Atlantic Albacore Stock Synthesis In 2023. SCRS/2023/033
4. **Ortiz M., Garcia J., and Taylor N.G.** 2023 Review and preliminary analyses of conventional tagging data on Atlantic blue shark stocks (*Prionace glauca*) SCRS/2023/047
5. Arocha F., **Ortiz M.**, Narváez M., Marcano J. H., and Evaristo E. Standardized Catch Rates and Size Distribution for Atlantic Sailfish from the Venezuelan Pelagic Longline Fishery in the Caribbean Sea and Adjacent Waters of The Western Central Atlantic (1987-2018). SCRS/2023/064
6. **Taylor N.G.**, Miller S. A Review of Reference Points, Objectives, and Performance Standards at TRMFOs. SCRS/2023/070
7. **Ortiz M., Kimoto A., Palma C., and Mayor C.** Update of Input Data (Catch and Size) for the Atlantic Sailfish (*Istiophorus Albicans*) Stock Assessment Models 2023. SCRS/2023/081
8. **Kimoto A., Ortiz M., and Taylor N.G.** 2023. Review of stochastic surplus production model in continuous time (SPiCT) methodology for the ICCAT software catalogue. SCRS/2023/090
9. **Taylor N.G.** 2023. A Hierarchical Cluster Analysis of South Atlantic Swordfish CPUE Series. SCRS/2023/104
10. Urtizberea A., Merino G., **Kimoto A., Ortiz M.**, Lauretta M., Schirripa M., Calay S., Brown C., Ortiz de Zarate V., and Arrizabalaga H. Preliminary Stock Synthesis Assessment Model for Northern Atlantic Albacore. SCRS/2023/107
11. Mourato B., Sant'Ana R., Kikuchi E., Cardoso L.G., Sow F.N.; Arocha F.; **Kimoto A., and Ortiz M.** Assessment of the Eastern Atlantic Sailfish Stock Using Jabba Model. SCRS/2023/111
12. Mourato B., Mourato B., Sant'Ana R., Kikuchi E., Cardoso L.G., Sow F.N.; Arocha F.; **Kimoto A., and Ortiz M.** Western Atlantic Sailfish Stock Status with Jabba Model. SCRS/2023/112
13. Cortés E., **Taylor N.G.** Estimates of Vital Rates and Population Dynamics Parameters of Interest for Blue Sharks in the North and South Atlantic Ocean. SCRS/2023/115
14. **Taylor N.G., Cortés E.** Multivariate Model Estimates of Life History Parameters and Productivity for North and South Atlantic Blue Shark Stocks Multivariate Model Estimates of Life History Parameter and Productivity for North and South Atlantic Blue Shark Stocks. SCRS/2023/116
15. **Ortiz M., Kimoto A., Palma C., and Mayor C.** Update of Input Data (Catch and Size) for the Atlantic Blue Shark (*Prionace Glauca*) Stock Assessment Models 2023. SCRS/2023/121
16. Sant'Ana R., Mourato B., Cardoso L.G., **Kimoto A., and Ortiz M.** South Atlantic Blue Shark Stock: Just Another Bayesian Biomass Assessment. SCRS/2023/127

17. Guillermo A. Diaz, N. M.T. Duprey, and **C. Palma** A Proposal to Standardize the Task 1 Nominal Catch Table in the Executive Summaries of the SCRS Annual Report. SCRS/2023/136
18. 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. Review and Diagnostics of The Stock Synthesis Assessment Model for Northern Atlantic Albacore. SCRS/2023/145
19. Deguara S., **Alemaný F.J., Pagá A., and Tensek S.** Short Note: Potential Explanation for Discrepancy Between Stereocamera Footage. SCRS/2023/157
20. **Alemaný F., Tensek S., Pagá A.** ICCAT Atlantic-Wide Research Programme for Bluefin Tuna (GBYP) Activity Report for Phase 12 and the First Part of Phase 13 (2022-2023). SCRS/2023/159
21. **Ortiz M.**, Tsukahara Y. Interpolation of the Growth Table for Farming Bluefin Tuna. SCRS/2023/164
22. **Garcia J., Palma C., and Mayor C.** Desing and Exploitation of the AOTTP Tagging Database. SCRS/2023/167

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1. Urtizberea A., Merino G., **Kimoto A., Ortiz M.**, Laurretta M., Schirripa M., C. Brown, and Arrizabalaga H. Preliminary Stock Synthesis Assessment Model for Northern Atlantic Albacore. SCRS/P/2023/013
2. 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., **Alemaný F.**, Allman R., Deguara S., Goñi N., Hanke A.R., Karakulak F.S., Pacicco A., Quattro J.M., and Rooker J.R. Population Connectivity of Atlantic Bluefin Tuna. SCRS/P/2023/016
3. **Alemaný F., Tensek S., Paga A., McClelland E.**, Kostopoulou V., O'Dowd L., and Artetxe I. GBYP And EU DCF Sampling Activities. SCRS/P/2023/017
4. **Taylor N.G., Palma C., and Mayor C.** Recommendation 22-12 and new Statistical Form ST12 SCRS/P/2023/046
5. **Taylor N.G.** and Miller S. A Review of Reference Points, Objectives, and Performance Standards at tRMFOs SCRS/P/2023/051
6. Rosa D., Busawon D., Quelle P., Krusic-Golub K H., Andrews A., Garibaldi F., Mariani A., DiNatale A., Schirripa M., Alves Bezerra N., Su N., Gustavo Cardoso L., Arocha F., Lombardo S Campello T., **Santos M.**, Travassos P., Brown C., Hanke A., Gillespie K., and Coelho R. Update on the Age and Growth Component of the Swordfish Year Program. SCRS/P/2023/060
7. **Taylor N.G.** Update on S-SWOMSE SCRS/P/2023/070