

2021 SECRETARIAT REPORT ON RESEARCH AND STATISTICS

Introduction

The activities and information included in this report refer to the period between 1 October 2020 and 11 October 2021 (the Reporting Period)¹. All the fisheries statistics, biological statistics and compliance related information have been presented by the Secretariat to the SCRS Working Groups during inter-sessional and Species Groups meetings. After five years of continuous improvements, the Secretariat observed in the last two years (with minor improvements from 2020 to 2021 a slight regression in data completion quality (more datasets only passed the SCRS filtering criteria after the corrections had been made by the Secretariat) and submissions not using the most recent ICCAT electronic forms (2021 version to report 2020 data). In addition, late submission of statistics continues to be an additional burden. The Secretariat will work 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, whether participating actively in the assessment or coordinating and managing external support to the SCRS work. The year 2021 was even more difficult for the Secretariat than 2020, due to the increased number of SCRS and Commission meetings (22 and 8, respectively). Such a high number of meetings greatly limited the capacity of the Secretariat, in addition to the fact that due to the pandemic all these meetings were held online, which involves an additional workload in terms of associated logistics, preparatory work and online meeting management.

1. Statistical and biological information reporting status

1.1 Task 1

ICCAT Circular #0738/2021 of 4 February 2021 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:

- Atlantic West Bluefin Tuna Data Preparatory Meeting: 19 March 2021
- Bigeye Tuna Data Preparatory Meeting: 6 April 2021
- Mediterranean Albacore Data Preparatory Meeting: 4 June 2021

The general deadline for reporting 2020 statistics (or any required revision to prior years) of all species and fisheries was 31 July 2021. 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.

The Secretariat continues to use (since 2015) the SCRS filtering criteria (Filters 1 and 2, described in Addendum 2 to Appendix 8 of 2013 SCRS report (Anon., 2014), 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., 2021 version).

¹ Only the statistical data received during the Reporting Period by the Secretariat in valid formats (version 2021 of the electronic forms, or special agreed formats) were considered in this report.

For 2020 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 it 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 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 1080 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 (ST07 through ST10) and has plans to include the automatic integration of the conventional tagging forms in the future (after the tagging database redesign, which will also include an electronic tagging module).

Eleven flag CPCs have used older SCRS forms to report 2020 data. To facilitate the revision process, the Secretariat moved whenever possible the information received in old versions (2018, 2019, and 2020) to the 2021 form versions, and requested to the respective flag CPC a formal validation of the transformation. The Secretariat reminds CPCs of the Commission's requirement of using the MOST RECENT standard electronic forms adopted by the SCRS for data submission.

The overall reporting status for 2020 data (summarised in **Table 5** and **Figure 1**), shows that 71 of the 75 flag CPCs (95%) have reported fisheries and biological information: 61 flags with catches (81%); 10 flags with no fishing activity (13%). No information was received from 4 flag CPCs (5%) all over the Reporting Period: Angola, Guinea Bissau, Sierra Leone, and Costa Rica.

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). The old Task 1 areas without geographical delimitation are 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 2020 data, about 60% of the flag CPCs reported fishing days) makes it unfeasible to obtain overall effort indicators and compromise possible estimations 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 2020 is presented in **Table 1**. For the seventh consecutive year (2014 to 2020 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 (fulfilling the requirements under Rec. 15-08, which collects previous year vessel activity under some ICCAT fisheries (BFT-E, Tropical species, and SWO-M).

The overall reporting ratio of ST01 for 2020 was 84% (63 flag CPCs) with 7 flag CPC having late submissions and 5 flags with corrections to their data. From the corrections made to ST01, 5 flag CPCs needed revisions. Twelve flag CPCs (16%) have not yet reported this information.

The vessel sizes (LOA) ranged from 5 to 242 meters in 2020 data, including small scale vessels reported in sub-form ST01B by eleven flag CPCs (about 4,900 vessels). Near 2,100 small scale vessels reported in T1FC were not found in the ICCAT vessel record database (with about 54,900 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 in all the stock assessments. 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 T1NC Report Card for 2020 is presented in **Table 2**. It shows the CPCs that have reported both positive catches and “zero” catches (excludes all the SCRS catch estimations). 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 71 flag CPCs (95%), including the 11 flag CPCs 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 6 flag CPCs. Only 4 flag CPCs (5%), have not yet reported this information. The total 2020 T1NC nominal catches (~ 750,500 t) reported for all species is about 8% lower when compared with the average of the last five years (2015 to 2019: ~ 811,600 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 production (T1NC). Task 2 information is the main source of data used by the SCRS in stock assessments and the Secretariat for estimation of important datasets, such as CATDIS, EFFDIS, 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:

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

Or alternatively, any of the special agreed formats convened 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) 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 2020 is presented in **Table 3**. A total of 56 flag CPCs (75% reporting ratio), including 3 late-reporting flag CPCs and 6 flags with corrections on their data, have reported T2CE. 19 flag CPCs (25%) have not yet properly submitted T2CE statistics for 2020.

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 T2CE datasets has also increased lately, in particular for 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 ICCAT-DB, 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 whenever possible, using the new 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 a more active collaboration of CPC scientists and Statistical Correspondents.

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

- Non-standard fishing effort types for certain gears (e.g.: for longline “hooks” is the standard)
- Incomplete or partial species catch composition
- 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 2020 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 48 flag CPCs (64%), including 3 late-reporting flag CPCs and 6 with corrections on their data, have reported T2SZ. 27 flag CPCs (36%) have not yet submitted in good conditions T2SZ information for 2020.

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 2020 arrived by month. The use of smaller geographical grids (1x1, and 5x5) has also increased slightly. The size/weight class bins reported for 2020 have followed the SCRS recommendation on size structures (1, 2, and 5 cm) and weight structures (1 kg). As opposed to previous years, no error was observed in the units of the size/weight class bins (e.g. millimetres reported as centimetres) within 2020 size datasets.

Following Resolution 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 (1991-2020), 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 published the two SCRS catalogues on the ICCAT website (<https://www.iccat.int/en/accesingdb.html>) for the first time at the beginning of 2021 (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 WGSAM (exception: last column having the relative score changes against the 2019 terminal year on the “30 year” time frame, i.e: 1990 to 2019) and already contains all the valid 2020 data 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). It can also be observed a particular increase in the shortfin mako scores (SMA-N and SMA-S stocks) of about 24% and 23%, respectively. This improvement had to do with the Spanish T2SZ recovery of the longline surface fleet (1993 to 2018, detailed in SCRS/2021/056) reported to ICCAT in 2021 with the particularity of being a non-official/non-public domain dataset (requiring explicit consent of the Authors for scientific use only, until its publication in the Collect. Vol. Sci. Pap. de ICCAT).

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 of 237 releases and 25 recoveries made during the Reporting Period.

A dashboard was created for the AOTTP project in order to view a general summary of the project statistics for the electronics tags implemented and is continuing to be improved.

1.3.2 Conventional tags

In relation to conventional tags, several Contracting Parties have reported to ICCAT a total of 8,932 released fish and 842 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 distributed 4,500 conventional tags, primarily under the tagging projects of the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP) and to various scientific institutions (**Table 8**).

With the full-time incorporation of the tagging expert Jesus Garcia into the ICCAT Secretariat staff, the Secretariat restarted some tasks postponed over the last years. These tasks include the conventional tagging work on the database merge process (ICCAT, 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 pending major revisions on all tagging datasets (e.g. ALB from EU-España, BSH from Uruguay), all aiming to increase the quality of the conventional tagging information managed by ICCAT.

A dashboard was created for the AOTTP project in order to view a general summary of the project statistics for the conventional tags implemented and is continuing to be improved. In addition, some dashboard prototypes have been presented for other species, not included in the AOTTP project, with the aim to examine dynamically and interactively the conventional tagging data.

1.3.3 Tagging lottery

Due to the COVID 19 pandemic, the tagging lottery was cancelled in 2020.

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**. Twenty-five CPCs reported ST09 data for 2020 during the Reporting Period (excluding the empty submissions).

Table 9 provides a summary of ST09-DomObPrg data reported for the 2020 by discard fate and species group including sharks, sea turtles and seabirds. **Table 10** contains T1NC data for bycatch species for 2020.

1.4.1 Sharks

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

1.4.2 Sea turtles

A summary of sea turtles information submitted for 2020 in ST09 forms is provided in **Table 11**. The Secretariat received much of the by-catch 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. For 2020 data, all years before 2017 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 (bigeye tuna and small tuna species) were made during the 2021 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 greatly 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 are summarised in **Table 14**, which contains all the revisions with the supported SCRS documents and already adopted by the respective species groups. The historical updates in Task 1 also cover the Small Tunas Species Group decision to include in the small tuna official list of species, the species *Scomberomorus commerson* (COM, Lacepède 1800) known as “narrow-barred Spanish mackerel”, based on the historical recovery of COM catches in the Mediterranean Sea (SCRS/2020/062) combined with the FAO catches series (National statistics reported to FAO) explicitly requested to FAO for the meeting. These COM Task 1 nominal catches (shown in **Table 14**) were adopted as preliminary and should be fully revised by the respective ICCAT CPC.

There are however, some official T1NC datasets (**Table 15**) reported for years before 2017, without a scientific document. These catch series require a SCRS decision. For the period 2017-2019, the Secretariat has some doubts on how to treat several catch series. The catches reported by Angola (2018) on longline and purse seine foreign fleets should have been presumably reported by those CPCs to ICCAT. Costa Rica still has to confirm if the 2018 catches reported during 2019 contain only Atlantic catches. For Gibraltar

who reported catches of bluefin for 2015 to 2019 for the first time, the Secretariat requested additional information in relation to those catches (recreational fleet, catches retained and/or released, etc.) and is awaiting an official response.

In follow-up to a 2018 Commission request to include in the T2CE datasets of the PS tropical fleets reported to ICCAT the effort unit “fishing operations/sets” per fishing mode (FAD/Free school), three major revisions were made to T2CE. Ghana (2005 to 2019) together with the Secretariat (SCRS/2021/133) provided a major update. EU-España and EU-France have also provided major historical revisions (1991 onwards). Only EU-France included the required effort measure in the revision. Both flag CPCs still have to submit a SCRS document. **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 historical revisions for T2SZ. **Table 18** presents the historical T2SZ datasets 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 23 CPCs on ST09 forms for 2020. In addition, seven CPCs reported their seabird mitigation measures on CP44 forms.

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 45 databases built to manage all the structured information received by the Secretariat. It has various frontend/backend tools including, client applications developed mostly with Java technologies, SQL scripts, and some VBA tools. 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, the ICCAT-DB system 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, storage and backup).

The Secretariat started in May 2019 the development of the ICCAT Integrated Online Management System (IOMS), a system designed to manage online all the ICCAT data requirements in the future. It is a long-term project intended to entirely replace the current ICCAT data reporting and management system. Two new senior software developer experts, Jose Sanz (front-end developer) and Manuel Maestre (back-end developer), hired for one year in 2019, were incorporated into ICCAT Secretariat staff in 2020 to continue the Phase 2 IOMS implementation, with the supervision and partial contribution to the development made by the Secretariat. The European Union also contributed in 2021 with an extraordinary budget for 1 year aiming to develop the IOMS dynamic help system. This additional budget allowed the Secretariat to hire for 12 months an additional expert on front-end technologies. The ICCAT Online Reporting Technology Working Group (WG-TOR), whose mandate was established under Resolution 16-19, and extended through Recommendation 19-12, will govern all the IOMS implementation process. An intersessional meeting of the WG-TOR was held in 2021 (see report) where it was decided to launch into production the IOMS on 1 August 2021 with the objective of being an experimental year to handle the ICCAT CPCs annual reports (Part I/Annex 1 and Part II/Section 3). During all the process the Secretariat will support the ICCAT CPCs officers in the completion of the 2021 annual reports.

In 2020 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 underway 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. Both will share the same 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 and 2021 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 the SQLite; the "ICCAT forms" online Task 1/2 validation prototype; delay of the GIS project (aimed at geo-referencing all the ICCAT datasets, and to create a "marine-rich" PostGIS server); delay of the conventional/electronic tagging work (database redesign, automatic data integration tools, sex recoveries by individuals, etc.).

3.1 Statistics

3.1.1 Task 1 and Task 2

All the electronic forms used to collect Task 1 and Task 2 data (ST01-T1FC, ST01-T1NC, ST03-T2CE, ST04-T2SZ, ST05-CAS and ST06-T2FM) were updated to version "2021a" 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 forms ST07, ST08, ST09 and ST10, and improved the automation processes to handle Task 1 and Task 2 forms. The Secretariat is also planning to develop similar automatic data integration tools for the conventional tagging forms TG01 and TG02. Extending this automatic integration framework for all the "ST" and "TG" forms will occur progressively (2022 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 estimations, with a particular focus on the latest stock assessments of ICCAT using integrated stock synthesis models (SS3, Maunder and Punt 2013). It is usually updated around the middle of each year, with special updates for the stock assessments to accommodate the most recent revisions in Task 1 and Task 2, which normally includes the latest year. Because there is always a time lag of "one year less" in CATDIS when compared with T1NC (e.g. latest CATDIS series cover 1950-2018 and the latest T1NC approved by the SCRS cover 1950-2019), the Secretariat must update the CATDIS several times within a year and independently for each species. This fact puts every year great pressure on the Secretariat to have all the information ready for the stock assessments (exacerbated by the increase in the number of meetings). This CATDIS "one year lag", a reiterative discussion of the species groups intersessional meetings, could be solved by simply "delaying the CATDIS annual estimations" (and the associated ICCAT Statistical Bulletin) by 6 to 7 months (middle of each year => end of same year/beginning of the next one). This approach greatly benefits from using the most recent statistics approved by the SCRS and the Commission on the annual meetings.

Secretariat proposal:

- Update the CATDIS (1950-2020) in December/2021 using the most recent statistics approved by the SCRS/Commission and publish the Statistical Bulletin Vol. 47 in January 2022. Extraordinarily, the Statistical Bulletin Vol. 47 to be published on January/2022 will have merged two CATDIS estimations (1st: 1950-2019; 2nd: 1950-2020).
- The following volumes will return to the normal publication schedule in January each year (Jan/2023: Vol 48 with 1950-2021 series; Jan/2024: Vol 49 with 1950-2022 series, ...).

Once again, the CATDIS will not include the estimations 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**).

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 and the substitution tables used for the CAS estimations. This year, the Secretariat has made partial updates to the CAS estimations of bigeye tuna (1975 to 2019) and to the western bluefin tuna stock (1950-2020). The catch-at-age matrices (CAA) were obtained by the species groups using various slicing methods on the CAS final matrices.

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 paragraph 18 of Rec. 16-01 and 19-02. Countries fishing for tropical tunas that have submitted information about their FAD fisheries and their FAD Management Plans, as well the ST08-FADsDep data in 2020 is summarized in **Appendix 2**.

3.2 Compliance

In recent years, several compliance-related measures adopted by the Commission include several reporting requirements of various kinds on Contracting Parties. The Secretariat maintains databases for these sets of information separately from the traditional fishery statistics (Tasks 1 and 2). Since 2011, following the Commission's adoption of the Confidentiality Data Policy, the Secretariat has provided compliance-related information to the SCRS to fill gaps, complement or cross-check fishery statistics. This section of the report includes the available data that has been summarized for the SCRS in 2021.

3.2.1 ICCAT Vessel record

The Secretariat maintains the ICCAT Record of Vessels database in accordance with Recs. 13-13/14-10, 16-05, 16-06, 16-07, 16-15, 17-02, 17-03, 19-02 and 19-04). The Record comprises a total of 11 vessel lists. Since 2015, the ICCAT vessel record database is synchronised daily with the t-RFMOs Consolidated List of Authorized Vessels (CLAV) and the electronic Bluefin Catch Documentation Program (e-BCD). In coordination with CPCs, the Secretariat also carries out continuous revision and updates of the ICCAT vessel record database, also covering the elimination of vessel duplicates. The Secretariat is currently working on an online module for reporting this information as part of the IOMS project (see sections 3 and 11 of this report).

3.2.2 Bluefin tuna fisheries

Recommendation 19-04 establish several reporting requirements for CPCs fishing and/or farming bluefin tuna:

- List of vessels authorized to catch eastern bluefin (paras 49 and 51 of Rec. 19-04)
- List of other bluefin tuna vessels authorized to operate in the eastern bluefin tuna fishery (paras 49 and 51 of Rec. 19-04)
- Record of Joint Fishing Operations (paras 56-60 of Rec. 19-04)
- Detailed information on bluefin tuna catches in the eastern Atlantic and the Mediterranean in the preceding fishing year (para 57 of Rec. 19-04)
- Weekly eastern bluefin tuna catch reports by vessel and traps (para 74 of Rec. 19-04)
- Monthly western bluefin tuna catch reports (para 24 of Rec. 17-06)
- VMS messages (para 5 of Rec. 07-08 and para 105 of Rec. 19-04)
- List of bluefin tuna traps (paras 55-56 of Rec. 19-04)
- Bluefin tuna farming facilities (para 9b) of Rec. 06-07)
- Bluefin tuna farming reports (para 5 of Rec. 06-07)
- The use of stereoscopic cameras systems in the context of caging operations (para 99 and Annex 9, Rec. 19-04)
- Carry over of caged bluefin tuna (para 7 of Rec. 18-13)
- Bluefin tuna caging declarations (para 2b of Rec. 06-07 and para 102 of Rec. 19-04)

- List of ports in which vessels are authorized to land and/or tranship eastern bluefin tuna (paras 69 and 70 of Rec. 19-04)
- Data and information collected under each CPCs domestic observer programme (para 83 of Rec. 19-04)

3.2.3 VMS messages

The VMS information received under Rec. 19-04 consists of vessel ID (name, flag, radio call sign) and a position every hour. This information can, in theory, be used to infer fishing effort distribution and intensity. **Figure 2** shows the number of messages received in each 1° by 1°-degree rectangle during the Reporting Period. The plot represents only the Mediterranean Sea VMS messages that originated at sea.

3.2.4 Bluefin Catch Document (BCD) and electronic BCD

In compliance with Rec. 18-13, the Secretariat receives paper copies of bluefin tuna catch documents and re-export certificates that are intended to track bluefin tuna from the catch location to the market. Very few paper copies are received now, as the use of the electronic system (eBCD system) became mandatory on 1 May 2016. Since 2016 the Secretariat has continued to work with the eBCD Technical Working Group on further developments and support for the eBCD system. **Table 19** summarizes the BCD / eBCD catches (weight and number) currently available as of 2 September 2021.

3.2.5 Bluefin catch reports

Under Recs. 17-06 and 19-04, bluefin catch reports are sent to the Secretariat. **Tables 20** and **21** summarize the information available from the monthly (West) and weekly (East) catch reports (as of 3 September 2021), respectively.

3.2.6 Caging declarations

Caging declarations are submitted by farming Contracting Parties in compliance with Recs. 18-02 and 19-04. The caged amounts reported by different fleets and introduced into cages are shown in **Table 22**. The data shown represent data submitted up to 3 September 2021. Recommendation 18-13 also requires CPCs to submit the amounts remaining in cages from the previous year, and Recommendation 06-07 requires a summary report of amounts farmed, as well as quantities marketed, mortalities, and estimated growth.

3.2.7 Statistical Document Programme

Recs. 01-21 and 01-22 track international trade of certain types of fish products of bigeye and swordfish, under the ICCAT statistical document programme. **Table 23** summarises the number of biannual reports (SD: statistical documents; RC: re-export certificates) received from ICCAT CPCs during the Reporting Period. **Tables 24** and **Table 25** compare (swordfish and bigeye, respectively) for the period 2013 to 2021 (2021 only first semester) current Task 1 nominal catch against trade statistics (SDs and RCs, in product weight) received during the Reporting Period.

3.2.8 Transshipments

Rec. 16-15 established a programme to monitor at-sea transshipments by large-scale longliners. The amounts transhipped are reported in **Table 26**. Note that, there are many product types for which there are no conversion factors to a common weight unit.

3.2.9 Bluefin Tuna Regional Observer Programme (ROP-BFT)

The data sets from this programme have been made available by the implementing consortium to the Bluefin Tuna Species Group. Given the complexity of the database, such data sets are provided on request.

3.2.10 Bluefin tuna farming operations

A new database integrating farming size at caging and harvesting operations and auxiliary information has been developed with the collaboration of the GBYP to address research on bluefin tuna growth during caging. This database is currently being used to evaluate maximum potential growth of bluefin tuna in farming operations following the request from the Commission in 2018.

3.3 FAD management plans

The *Recommendation by ICCAT on a Multi-Annual Conservation and Management Programme for Tropical Tunas* (Recs. 19-02, 16-01) 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 information on FADs deployed and utilization during the previous year (ST08-FADsDep). The elaboration of the plan in Rec. 19-02 Annex 6 provides an extensive list of criteria that must be included in the Plan.

In 2021, 18 CPCs provided Tropical Tuna fishing management plans, of which 9 also provided FAD management plans (**Appendix 2, Table 1**). ST08-FadsDep forms were received from 16 CPCs. Of these, seven reported not using or deploying FADs. Following the request from the 2021 Commission Panel 1 intersessional meeting, historic data on FADs deployments were provided by 6 CPCs of which four CPCs provided data using the ST08 eform (**Appendix 2, Table 2**).

4. Work in support of the SCRS Intersessional Meetings

The main task of the Secretariat is to provide full support for all intersessional and annual meetings of the SCRS, including provision of the fisheries statistic data (Task 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 for 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 collaborates with the compilation and 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 work plans, Calls for tender 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 from the SCRS in September 2020, the Secretariat provided support to the following SCRS online meetings:

- 3rd Intersessional Meeting of the Bluefin MSE Technical Group, 1-3 December 2020 (Anon. 2021a)
- Intersessional Meeting of the Billfishes Species Group, 8-12 March 2021 (Anon. 2021b)
- Intersessional Meeting of the Tropical Tunas MSE Technical Group, 29-31 March 2021 (Anon. 2021c)
- 1st Intersessional Meeting of the Bluefin MSE Technical Group, 5-13 April 2021 (Anon. 2021d)
- Bigeye Tuna Data Preparatory Meeting, 22-30 April 2021 (Anon. 2021e)
- Intersessional Meeting of the Subcommittee on Ecosystems, 5-10 May 2021 (Anon. 2021f)
- Meeting of the Working Group on Stock Assessment Methods, 5-10 May 2021 (Anon. 2021g)
- Intersessional Meeting of the Small Tunas Species Group, 17-20 May 2021 (Anon. 2021h)
- Intersessional Meeting of the Swordfish Species Group, 31 May-7 June 2021 (Anon. 2021i)

- Intersessional Meeting of the Albacore Species Group (including Mediterranean Albacore Stock Assessment), 21-30 June 2021 Meeting (Anon. 2021j)
- 2nd Intersessional Meeting of the Bluefin MSE Technical Group, 5-10 July 2021 (Anon. 2021k)
- Bigeye Tuna Stock Assessment Meeting, 19-29 July 2021 (Anon. 2021l)
- Western Atlantic Bluefin Tuna Stock Assessment Meeting, 30 August-1 September 2021 (Anon. 2021m)
- 2nd Intersessional Meeting of the Bluefin Tuna Species Group, 2-9 September 2021 (Anon. 2021n)
- Tropical Tunas, Bluefin Tuna, Shark, Albacore, Swordfish, Billfish and Small Tunas Species Groups Meetings, 20-25 September 2021
- Meeting of the Subcommittee on Statistics, 23 September 2021

5. Infrastructure and technology

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

5.1 Increased memory for servers and hard drives for HP disk array

We have purchased 12 HPE 32GB (1x32GB) -DDR4 RAM Memory to install four modules in each of the three physical HP servers and 6 HP MSA 1.8TB 12G SAS 10K 2.5in 512e HDD Disks to expand HP Array Storage.

5.2 Replacement of firewall

We installed two Fortigate 100F firewalls to replace the previous Palo Alto firewall.

5.3 Replacement of the Endpoint security software subscription

The Endpoint security software has been replaced with a Symantec solution for BitDefender user computers and servers. The laptop coding service is ready for implementation. In the event of theft of laptops, it will prevent confidential information from falling into the hands of third parties.

5.4 Backup service with disaster recovery for virtual servers and user computers

We have improved the Backup Service, including the DR (Disaster Recovery) option for virtual servers and Windows 10 and Windows 7 (in the process of updating to Windows 10) hosted in the virtualization infrastructure.

5.5 Possibility of buying a Zoom license for online meetings

We have contracted two Zoom licenses for the Secretariat to set up SCRS meetings.

5.6 New Synology storage array

We have purchased a Synology storage cabinet to store large files as well as server backups.

5.7 Use of server and computer management software

This year, we will continue using Manage Engine's Desktop Central software program to manage servers and user computers, improving Security.

5.8 Replacing Manage Engine oPManager with Check MK open source solution

We have installed an open-source server named CheckMK to monitor over 50 servers/switches/firewalls, etc.

5.9 Conducting a Security Audit of the ICCAT website

An audit has been carried out of the server that hosts the ICCAT website. Most of the vulnerabilities have been resolved with the exception of those that depend on the code of the website itself, on which work continues.

5.10 Cybersecurity and regulatory compliance consultation services

Work has begun with a company which specializes in information security to protect the assets of the ICCAT Secretariat. Personalized interviews have been conducted with ICCAT officials. A Security probe with IDS (Intrusion Detection System) connected to a SOC (Security Operations Center) has been contracted. Alerts generated by the SOC are addressed.

5.11 'Passwordless' access solution

We are working on a 'Passwordless' access solution, which allows users to log in to their computer with a USB stick and access Microsoft 365 (Office) software and the FortiClient VPN to connect to our office. It is based on Yubkey by Yubico. It is a 2FA (Two-Factor Authentication) solution.

5.12 Additional email security layer

An email protection solution based on Fortimail and FortiSandbox, managed by a SOC (Security Operations Center), continues to work. New levels of security are being implemented gradually to reduce the impact of loss of emails sent to the Secretariat.

5.13 New computers for staff

We have delivered eight laptops and a workstation computer to ICCAT staff.

5.14 Work environment for substitutions in the Translation Department

We have prepared a laptop with a Microsoft 365 account for a person who collaborates with the Translation Department.

5.15 Servers fortification

We are working on the fortification of the virtual servers of the ICCAT Secretariat in parallel with implementation of the remainder of the security work planned.

5.16 Correcting SOC Security Alerts

We are working to resolve the alerts of possible security risks generated by the SOC associated with the public IP addresses of the Secretariat's IT infrastructure, as well as the webserver and the notices of the BitDefender Security software console.

6. Publications

6.1 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 27** shows the volumes of these series that were published in 2021. 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.

Volume 4 of the Biennial Report, which was published for the first time in 2011, contains the reports generated by the Secretariat for the SCRS and the Commission, such as 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 47 of the Statistical Bulletin will be published in October as an electronic version. The current edition provides the catches and other statistics series for the period 1950 to 2019.

Given the Secretariat's workload and the request to reduce the time of publication 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 2021 the Secretariat completed publication of volume 77 (completed issues 6 to 11) and already published issues 1 to 8 of volume 78 of the ICCAT Collective Volume of Scientific Papers.

6.2 ICCAT Manual

Following the 2019 and 2020 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 *Cornuda cruz* (*S. zygaena*) and Great hammerhead (*S. mokarran*).

In addition, 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. falciiformis*), Longfin mako (*I. paucus*), Crocodile shark (*Pseudocarcharias kamoharai*) and Pelagic stingray (*Pteroplatytrygon violacea*).

These chapters are now being revised and translated by the Secretariat, and later SCRS experts will be requested to make final revisions to the chapters prior to their publication.

6.3 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.

Development of the webpage and search engine for scientific documents has been completed. This new tool enables searches for SCRS documents published in the ICCAT Collective Volume of Scientific Papers since 1973, by using different parameters and criteria. For that purpose, a new bibliographic database of published SCRS documents was developed.

Together with the ICCAT IT service, new web based tools have been implemented to mitigate threats to the ICCAT website, which occurred regularly due to use of the ICCAT e-mail and meeting registration form.

In addition, new functionalities are being developed, as well as a new layout, aiming to adapt the ICCAT website to the new needs and compatibility requirements of the new web browsers, aiming to provide a better service to ICCAT users.

7. International activities

7.1 Coordinating Working Group on Fishery Statistics (CWP)

FAO is planning for October 2021 a CWP meeting with various technical groups. During 2021 the ICCAT Secretariat has maintained close collaboration with FAO-CWP and FAO-FIRMS experts at the technical level on the solution of various data issues (data corrections, coding systems, application of CWP fisheries harmonization standards and concepts, data exchange, etc.). The ICCAT Secretariat is also working closely with FAO and the other 5 tRFMOs on the data provision for the FAO-FIRMS Global Tuna Atlas as described in the FAO FIRMS Steering Committee eleventh session report (FS11, May 2019 Rome-Italy: <http://www.fao.org/3/ca5247en/ca5247en.pdf>). Due to various delays only during 2021 this data consolidation and integration work was finished aiming to publish a first version of the FAO Global Tuna Atlas by the end of 2021.

7.2 Fisheries and Resources Monitoring System (FIRMS)

ICCAT is a partner of the FAO-FIRMS that provides access to information on the global monitoring and management of fishery marine resources. As such the Secretariat provides regular updates for the stock status of ICCAT species (<http://firms.fao.org/firms/en>) assessed by the SCRS. Due to the pandemic and busy schedule in 2021, the Secretariat has scheduled the updates of bigeye tuna, porbeagle, Mediterranean and Atlantic Albacore, and Mediterranean swordfish stocks, later during this year and early 2022.

The ICCAT Secretariat attended the 12th Steering Committee Meeting of the Fisheries and Resources Monitoring System (FIRMS) held online October 18-21, 2021. The primary aim of FIRMS (that is housed by FAO) is to provide access to information on the global monitoring and management of fishery marine resources. ICCAT is a partner in the FAO-FIRMS initiative and continues to provide data to support their initiative. The group reviewed the progress on the new FIRMS information system developed under the BlueBRIDGE project, including the Global Tuna Atlas (GTA) and the Global Record of Stocks and Fisheries. It was informed that FIRMS is developing a strategic plan for the 2020-30 decade for which it is requesting input from each partner through a survey highlighting the benefits and requirements. Preliminary responses from partners including ICCAT Secretariat, noted limitations on time and staff to address FIRMS requirements, recommending to streamline and standardize the overall transfer of data. It was further noted that ICCAT is in the process of updating its Data Confidentiality Policy, and that future data submission will follow those policy requirements. Responses from partners will be considered in the draft strategic plan that will be reviewed at the next meeting.

7.3 ASFA

Since the last SCRS meeting, the Secretariat has prepared 6 new entries (70.4, 70.5, 70.6, 71.1, 71.2, and 71.3) for the Aquatic Sciences and Fisheries Abstracts (ASFA-ProQuest) database, from the papers published in the most recent issues of the ICCAT Collective Volume of Scientific Papers.

7.4 EU Regional Coordination Group Large Pelagics (RCG LP)

The ICCAT Secretariat has participated in the European Union (EU) Regional Coordination Group on Large Pelagics (RCG LP) 2021 Annual Meeting, as one of the potential beneficiaries of the outcomes planned by the RCG-LP on the provision by EU Member States of fisheries and biological data, through the EU data collection framework (DCF). The Secretariat presented to the Group the various aspects of the ICCAT data collection system, namely the data call process, the types of fisheries statistics and biological data compiled together with the corresponding formats, the submission and the validation process using some of the SCRS

instruments developed (filtering criteria, report cards, catalogues, scorecard, etc.), among others. Special attention was given to the way the data transmission failures (due to errors and/or incompleteness in the datasets reported) are handled by the EU and ICCAT in relation to EU Member State data provision. The RCG-LP recognised that the existing practice of sending a yearly report to the EU (DG-MARE) (prepared by the ICCAT Secretariat around October) on the “EU reporting status” is a good instrument used to track with some level of detail the data provision failures of EU Member States. The Secretariat noted that the report still has potential for improvements in the future.

It was also discussed the important role of GBYP (Atlantic-Wide Research Programme for Bluefin Tuna) and other ICCAT Data Collection and Research Programmes, aiming the best scientific knowledge on ICCAT species and the provision of advice to the Commission. Specifically, as in previous meetings of the RCG-LP, the potential synergies between ICCAT Programmes and EU DCF sampling activities were highlighted. As an example, it was emphasized the role that GBYP could play in contributing to the design and implementation of a standardized and efficient BFT sampling scheme, coordinated not only at EU but at global level.

7.5 Cooperation agreement with WECAFC

In 2021, following a request of cooperation from the Western and Central Atlantic Fisheries Commission (WECAFC) Secretariat, the Secretariat coordinated comments from a group of SCRS experts on the WECAFC draft Regional Plan of Action (RPOA) for Sharks. The RPOA will be further developed during the upcoming WECAFC Working Group on Shark Conservation and Management, scheduled for 20-22 October 2021. The SCRS experts are also expected to attend this WECAFC meeting.

7.6 Proposed Global Environment Fund (GEF) Projects

The ICCAT Secretariat is in discussions with the Food and Agricultural Organization of the United Nations (FAO) to coordinating the submission of proposals to the Global Environment Fund (GEF) for funding four projects that if funded would begin April to June 2022. Projects range in duration from three to five years. The proposals are designed to get GEF monies to support priority activities for the science and management of ICCAT species.

ICCAT has four proposals under consideration. The first project (five years) is to improve compliance with ICCAT conservation and management measures, in particular, but not limited to Port Inspection (US\$ 508,080) in particular for those CPCs that lack the means, either technical or financial, to implement some of the measures adopted by tuna RFMOs. The second project (five years) is to enhance the ICCAT Integrated Online Management System, IOMS, (US\$ 678,500); here the funding would help support centralised online data management (reporting, validation, storage, availability, etc.) systems that are fundamental to the successful implementation of modern-day conservation and management measures. The third project (three years) aims to generate ecosystem-based operating models for the testing of ecosystem indicators and management policies (US\$ 200,000) so that the validity of given indicator for stock status or ecosystem state can be tested to determine when such indicators accurately reflect the underlying stock or system dynamics. The fourth project (three years) will provide for technical support for harmonization of technical work between RFMOs (US\$ 360,000): this project will allow RFMOs to coordinate to identify and address common challenges in a harmonized manner, and for conveying key messages to civil society regarding progress in fisheries management, particularly in the context of ongoing BBNJ discussions and the UNFSA review process.

A final decision on whether the proposals receive funding will be made by GEF at the end of 2021.

8. ICCAT Scientific programmes

The activities of the Atlantic-Wide Bluefin Research Programme (ICCAT GBYP), Atlantic Ocean Tropical Tuna Tagging Programme (ICCAT AOTTP), Year Research Programme for Small Tunas (ICCAT SMTYP), the Shark Research and Data Collection Programme (SRDCP), and the Enhanced Research Programme for Billfish (ICCAT ERPB), are presented separately in reports to the SCRS (see **Appendices 4 to 8** of the 2021 SCRS Advice to the Commission, respectively).

Before the closure of AOTTP, a final online Symposium was held between 12 and 14 January 2021. Thirty-five oral presentations were provided, and several papers submitted for a Special Issue publication in the *Fisheries Research* peer-review journal.

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, Call 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 coordinator on the design of research proposals, Call for tender, evaluation of proposals, coordination of research and database management, as well as IT support for each of the programmes. As in the past, during 2021 the Secretariat actively participated in several of the research programmes components.

In addition to the above-mentioned programmes, the Secretariat has been providing administrative and scientific support to other research activities (see item 10.6), namely to the ongoing work of the Subcommittee on Ecosystems, Swordfish and Albacore Species Groups, as well as the Working Group on Stock Assessment Methods. Such support involved coordination of research of proposals, Call for tenders, administration of allocated funds and accounting responsibilities in relation to the different contracts issued.

9. Other activities

9.1 Mediterranean Advisory Council (MEDAC)

The Mediterranean Advisory Council's (MEDAC) role includes the preparation of opinions on fisheries management and socio-economic aspects in support of the fisheries sector in the Mediterranean, to be submitted to the European Member States and institutions in order to facilitate the achievement of the objectives of the European Union Common Fisheries Policy.

The Secretariat participated in the MEDAC meeting on 6 October 2021. It was presented the preliminary conclusions and the SCRS management advice for the stocks of East bluefin tuna, Mediterranean swordfish, and Mediterranean albacore. It was also presented the current status and future workplan of the ICCAT BFT MSE process with emphasis on stakeholder participation. The Secretariat invited participants to attend the series of informative MSE webinars scheduled in October 2021. It was indicated that for the BFT MSE process decisions and discussion will take place within Panel 2 of the ICCAT Commission, and stakeholders are welcome to participate through their official delegation(s) to ICCAT.

9.2 University of Miami/ Global Fishing Watch

The Secretariat collaborated with the University of Miami and Global Fishing Watch, on a project that compared the spatial distribution of effort reported to the Secretariat in Task 2 data with Global Fishing Watch's estimates that were derived from the analysis of vessels' Automatic Identification System (AIS) which is an automated tracking system that displays other vessels in the vicinity. The results of this analysis will be published sometime in 2022.

The Bycatch Coordinator was asked to serve as a co-moderator in a workshop run by the German Government tentatively called "Improving synergies between Regional Fishery Bodies and CITES Authorities", which is an initiative that is intended to identify opportunities to strengthen joint sustainable catch, trade and management measures for sharks and rays. The intention is for there to be a first workshop in November 2021 that will discuss the current strengths and weaknesses of current relationships between fisheries and conservation management to identify opportunities for improvement. One key objective of the meeting is establishing an agreement on if it is worthwhile to proceed with a second workshop. The final date for the workshop has not yet been determined.

9.3 SIMERPE Symposium

The Secretariat participated in a Symposium organized to review the current status of modeling and assessment of fisheries resources of the Portuguese and Spanish marine fisheries resources and the evolution towards more sustainable management advice provision, SIMERPE 19-22 October 2021, Vigo Spain. National scientists and representatives from RFBs (ICES, NAFO, GFCM, ICCAT) presented the process for generating scientific advice and their management implementation. It was presented the process for the Management Strategy Evaluation (MSE) approach and current implementation in different RFBs, as well as considerations of the Ecosystem Approach to fisheries management and its current status. It was highlighted that most of the scientific advice is moving from the traditional single best assessment approach towards more uncertainty integrated approaches, where multiple plausible states of nature are being considered and taken into account for providing scientific advice. Here, the Management Strategy Evaluation (MSE) approach was presented as the more inclusive and robust approach for generating management advice. However, it was noted that MSE is not similar in all RFBs, in part due to the scope, the number of assessments, data and expertise limitations, and the time that a full MSE will require, citing the ICCAT BFT MSE process development.

10. ICCAT funds for data improvement and capacity building

To improve data collection and strengthen the capacity of the scientists from developing Parties, the Japanese Government created an initial data improvement project, which was continued in a second phase by the ICCAT/Japan Data and Management Improvement Project (JDMIP), in a third phase by the ICCAT/Japan Capacity-Building Assistance Improvement Project (JCAP), and since December 2019 in a fourth phase by the ICCAT/Japan Capacity-Building Assistance Improvement Project (Phase 2) (JCAP-2) (the report is contained in document SCI-08).

Besides this project, there is also a Data Fund, which was established through the *Resolution by ICCAT on Improvements in Data Collection and Quality Assurance* [Res. 03-21]. The Data Fund is open to voluntary contributions from the Contracting Parties. To date, only the United States has contributed to this fund.

The European Union and the United States created their own capacity building funds for data collection and analysis of data and stock assessment methods, as well as to facilitate participation in SCRS meetings.

In 2014, the Commission adopted the *Recommendation by ICCAT amending Recommendation [11-26] on the Establishment of a Meeting Participation Fund for Developing Contracting Parties* [Rec. 14-14], for the participation in both the SCRS and Commission meetings.

In 2013, the Commission adopted the *Recommendation by ICCAT on the Establishment of a Scientific Capacity Building Fund for Developing States which are ICCAT Contracting Parties* [Rec. 13-19] which establishes a Special Capacity Building Fund (SCBF) to support scientists from ICCAT Contracting Parties that are developing States, regarding their need to acquire knowledge and develop capacities in ICCAT related issues.

To support the SCRS work, during its 2020 correspondence process, the Commission approved a total amount of €404,500 for the 2021 Science Envelope. In addition, in 2021 the EU committed an additional contribution of €618,770, the US has confirmed a voluntary contribution of US\$ 90,000 to support the ICCAT MSE process and confirmed its support to cover the costs of the Enhanced Programme for Billfish Research Data Fund (US\$ 75,000) and Chinese Taipei has contributed €2,000. Finally, Canada covered the costs of an independent external review of the western bluefin tuna stock assessment conducted in 2021 (€10,000).

In 2012, the SCRS approved a protocol to use the Data Fund and other ICCAT funds. This protocol defines a broad structure for use of the funds which includes improvement of statistics, training and support of SCRS work, including attendance to meetings. The protocol also includes the criteria to be followed for allocation of funds.

On the basis of this protocol, in 2021 the funds have been used as follows:

- Participation at SCRS meetings: Due to the pandemic all SCRS meetings were held online, and therefore no financial assistance was required to attend the meetings.
- Improvement of statistics: The project on rebuilding the statistical and fisheries data collection system in Liberia, financially supported by the ICCAT - Japan Capacity-Building Assistance Project (JCAP-2), was concluded.
- The following SCRS activities were (and/or are being) funded:
 - Short-term contract extension to AOTTP awareness and tag recovery activities in Senegal;
 - Short-term contract extension to AOTTP awareness and tag recovery activities in Côte d'Ivoire;
 - Short-term contract for continuation of the ICCAT tropical tunas MSE work;
 - Short-term contract for collection of biological samples for growth study on billfish in the eastern Atlantic;
 - Short-term contract for collection of biological samples for studies on genetics, growth and maturity - SMTYP;
 - Two short-term contracts for ICCAT for update of ICCAT Manual chapter 2 (small tunas section);
 - Short-term contract for ICCAT swordfish biological samples collection for growth, reproduction and genetics studies;
 - Short-term contract for modelling approaches: support for the ICCAT North Atlantic swordfish from MSE process;
 - Short-term contract for addition of swordfish distribution model to the longline simulator study;
 - Short-term contract for ICCAT North Atlantic albacore tuna reproductive biology study;
 - Short-term contract for ICCAT South Atlantic albacore tuna reproductive biology study;
 - Short-term contract to improve the working framework for assessment of the North Atlantic albacore management strategy;
 - Short-term contract for peer review of the North Atlantic swordfish management strategy evaluation (MSE) code and algorithms;
 - Electronic PSAT tagging of Atlantic swordfish, Atlantic albacore and Atlantic pelagic sharks;
 - Study on the genetic structure of the shortfin mako shark stock based on mitochondrial analysis;
 - Short-term contract for ICCAT for update of ICCAT Manual chapter 2 (sharks section).

11. Major statistical and IT Tasks planned for 2022

The Secretariat has been working since 2017 on the ICCAT Integrated Online Managements System (IOMS). After the first two years studying the various technologies and working on 2 prototypes (FORS: Fisheries online reporting system, financed by GEF; "ICCAT forms": recommended by the SCRS and developed by the Secretariat) aimed to manage online Task 1 and Task 2 datasets, the Subcommittee on Statistics recommended in 2018 that both projects be merged and integrated into the IOMS in the future. The SCRS and the Commission's Online Reporting Technical Working Group (WG-TOR) adopted it and also recommended its continuation and extension to all the statistical compliance data requirements of ICCAT.

The Commission acknowledged the need for financial support to implement the IOMS in line with the recommendations of the Online Reporting Technology Working Group, and approved in 2019 Phases 1 and 2 of the IOMS project. The Secretariat started its development by hiring two senior software developers in June 2019. IOMS Phase 1 is finished, and Phase 2 started in June 2021. The WG-TOR intersessional meeting held in February 2021 (report) delineated the content of the following Phases 3 and 4 to be presented at the 2021 Commission meeting for approval. The WG-TOR also agreed to launch into production (experimental year) the IOMS on 1 August 2021 to test completion (with the support of the Secretariat) by the CPCs of the 2021 Annual Reports. 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 during 2021 and beyond. The priority tasks (including the ones postponed in 2020/21) for 2021/2022 include:

- 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 tagging database redesign, including the addition of the model structure for electronic tagging;
- Continue the standardization of the electronic forms (TG: tagging forms, CP: compliance forms);
- Extend the automatic data integration tools for the standardized electronic forms;
- Continue the development of the GIS project (create a PostGIS server and geo-reference for all the ICCAT data available in ICCAT-DB);
- The adaptation/migration of all the databases of the ICCAT-DB system to the new ICCAT IOMS system.

12. Secretariat staff and organization

In March 2021, Mr. Jesus Garcia joined the Secretariat staff as a member of the Department of Research and Statistics, after being part of the AOTTP coordination team. Mr. Garcia’s main responsibility is to keep up to date the tagging data received by the Secretariat, further develop the related relational databases and web based tools to facilitate data analysis.

In addition, in April 2021, Mr. Dashiell Portel joined the Secretariat staff as a Software Developer for the IOMS project. He was hired for a 12-month period, based on a grant agreement signed with the EU. Detailed information on the structure and the Secretariat staff is available on the ICCAT website (www.iccat.int/en/staff.html).

Taking into account the increase in functions and the cross-functionality of IT, since March 2021, Mr. Jesús Fiz, the ICCAT IT Manager, has been developing his activities under the direct supervision of the Executive Secretary.

The Secretariat went into telework activities on 16 March 2020 in response to the Spanish Government’s recommendations and mandates due to the COVID-19 pandemic state of alarm. Since then, the Secretariat has been following the health and work recommendations implemented by the national and regional authorities. However, all the activities of the Secretariat were maintained, including those related to the online meetings. The Secretariat thanks all CPCs’ authorities and scientists for their efforts and support during these difficult times and expresses their wishes for a healthy and prompt return to normal activities. Thanks are also due to the staff, for their commitment and ability to rapidly adjust to remote working while maintaining the standards of the work.

Table 2. Task 1 nominal catch (form ST02-T1NC) submission status for 2020 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 2020 envoyées à l'ICCAT pendant la période de déclaration ("vert" : avant la date limite ; "jaune" : après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); "cellule vide" : non soumises ou prise zéro).

Tabla 2. Estado de la presentación de los datos de captura nominal de Tarea 1 (formulario ST02-T1NC) para los datos de 2020 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): 2021-08-01											Small tuna		Sharks (major sp.)			
			Tuna (major sp.)										STgrp	BSH	POR	SMA			
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT							
CP	ALBANIA	Albania	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ALGÉRIE	Algerie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ANGOLA	Angola																	
	BARBADOS	Barbados	1	1	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	1	1
	BRAZIL	Brazil	1	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	1	1	1	1
	CAP-VERT	Cape Verde	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CHINA PR.	China PR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CÔTE D'IVOIRE	Côte d'Ivoire	0	0		0	0	0		0	0	0	0	0	0	0	0	0	0
	CURAÇAO	Curaçao	1	1	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	1	1
	EL SALVADOR	El Salvador	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	EUROPEAN UNION	EU-Bulgaria	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Croatia	1	0		0	0	0	0		0	0	0	0	0	0	0	0	0
		EU-Cyprus	1	1	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	1	1
		EU-España	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-France	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Germany	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Greece	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU-Italy	1	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU-Latvia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Lithuania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU-Malta	1	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU-Netherlands	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU-Portugal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GABON	Gabon																	
	GAMBIA	Gambia		0					0				0						
	GHANA	Ghana	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GRENADA	Grenada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GUATEMALA	Guatemala	1	1	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				
	GUINÉE REP.	Guinée Rep																	
	HONDURAS	Honduras																	
	ICELAND	Iceland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	JAPAN	Japan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	KOREA REP.	Korea Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LIBERIA	Liberia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LIBYA	Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAROC	Maroc	1	1	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	1	1
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NAMIBIA	Namibia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	NICARAGUA	Nicaragua																	
	NIGERIA	Nigeria																	
	NORWAY	Norway	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PANAMA	Panama	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	PHILIPPINES	Philippines																	
	RUSSIA	Russian Federation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	S. TOMÉ E PRINCIPE	S. Tomé e Príncipe	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	SENEGAL	Senegal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SIERRA LEONE	Sierra Leone																	
	SOUTH AFRICA	South Africa	1	1	0		1	1	1	1	1	1	1	1	1	1	0		1
	St VINCENT & GRENADINES	St Vincent and Grenadines	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	SYRIA	Syria	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TRINIDAD & TOBAGO	Trinidad and Tobago	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TUNISIE	Tunisie	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TURKEY	Turkey	1	1	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	1	1
		UK-Bermuda	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		UK-British Virgin Islands																	
		UK-Sta Helena	1	1	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	1	1
	URUGUAY	Uruguay																	
	VENEZUELA	Venezuela	1	1	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	1	1
	Costa Rica	Costa Rica																	
	Guyana	Guyana	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	Suriname	Suriname																	
NCO	Non-contracting parties	Colombia	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
		Dominica	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
		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	-0.2	-0.2
		Saint Kitts and Nevis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTES: NO FISHING ACTIVITY (flags in green, 10 flags): FR-St Pierre et Miquelon, Guinée Rep, Nicaragua, Nigeria, Philippines, UK-British Virgin Islands, UK-Turks and Caicos, Uruguay, Bolivia, and Honduras.

NO TARGETTING ACTIVITIES (some by-catch): EU.Denmark, EU.Netherlands, EU-Latvia, EU.Lithuania, Iceland, and United Kingdom.

ERRORS/UNDER REVISION: Albania, Belize, Cape Verde, Côte d'Ivoire, EU-France, EU-Malta, Iceland, Ghana, S. Tomé e Príncipe, etc.

Table 3. Task 2 catch and effort (form ST03-T2CE) submission status for 2020 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 2020 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 2020 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): 2021-08-01										Small tuna			Sharks (major sp.)		
			Tuna (major sp.)										ny of 13 s	BSH	POR	SMA		
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT						
CP	ALBANIA	Albania																
	ALGÉRIE	Algerie			-0.2					-0.2				-0.2		-0.2		
	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
	CANADA	Canada	1	1	1	1				1	1	1	1	1	1	1	1	1
	CAP-VERT	Cape Verde		1				1					1	1				
	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	-0.2	-0.2		-0.2	-0.2			-0.2		-0.2	-0.2	-0.2				
	CURAÇAO	Curaçao		1					1				1	1				
	EGYPT	Egypt			1													
	EL SALVADOR	El Salvador		1					1				1	1				
	EUROPEAN UNION	EU-Bulgarie												1				
		EU-Croatia	1		1					1				1				
		EU-Cyprus	1		1					1				1				
		EU-Denmark																
		EU-España	1	1	-0.2			1		1		1	1	1	-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				1				
		EU-Ireland	0		0					0				0				
		EU-Italy	1		1					1				1	1			
		EU-Latvia																
		EU-Lithuania																
		EU-Malta	1		1			1		1				1	1	1	1	1
		EU-Netherlands																
		EU-Portugal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon																
	GABON	Gabon																
	GAMBIA	Gambia																
	GHANA	Ghana		1					1				1					
	GRENADA	Grenada																
	GUATEMALA	Guatemala		1					1				1	1				
	GUINEA BISSAU	Guinea Bissau																
	GUINEA ECUATORIAL	Guinea Ecuatorial																
	GUINÉE REP.	Guinée Rep																
	HONDURAS	Honduras																
	ICELAND	Iceland			-0.2													
	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													
	MAROC	Maroc		1	0					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	1	1		1			1	1		1	1	1	1	1	1	1
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway			1													
	PANAMA	Panama		0			-0.2	0					0	0				
	PHILIPPINES	Philippines																
	RUSSIA	Russian Federation							1					1	1			
	S. TOMÉ E PRÍNCIPE	S Tomé e Príncipe																
	SENEGAL	Senegal		1					1				1	1				
	SIERRA LEONE	Sierra Leone																
	SOUTH AFRICA	South Africa	1	1					1	1		1	1	1	1	1	1	1
	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													
	TRINIDAD & TOBAGO	Trinidad and Tobago	1	1										1	1			1
	TUNISIE	Tunisie			1													
	TURKEY	Turkey			1					1				1				
	UNITED KINGDOM	Great Britain	1				1						1	1	1	1	1	1
		UK-Bermuda	1	1	1	1							1	1	1	1	1	1
		UK-British Virgin Islands																
		UK-Sta Helena		1					1				1	1				
		UK-Turks and Caicos																
	UNITED STATES	USA	1	1	1	1			1	1	1	1	1	1	1	1	1	1
	URUGUAY	Uruguay																
	VENEZUELA	Venezuela	1	1		1	1	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, 10 flags): FR-St Pierre et Miquelon, Guinée Rep, Nicaragua, Nigeria, Philippines, UK-British Virgin Islands, UK-Turks and Caicos, Uruguay, Bolivia, and Honduras.
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Netherlands, EU-Latvia, EU-Lithuania, Iceland, and United Kingdom.
 ERRORS/UNDER REVISION: Albania, Belize, Cape Verde, Côte d'Ivoire, EU-France, EU-Malta, Iceland, Ghana, S. Tomé e Príncipe, etc.

Table 4. Task 2 size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2020 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 2020 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 2020 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).

Status	Party	Flag	Deadline (+1 day tolerance): 2021-08-01										Small tuna ny of 13 s	Sharks (major sp.)					
			ALB	BET	BFT	BUM	Tuna (major sp.)		SPF	SWO	WHM	YFT		BSH	POR	SMA			
CP	ALBANIA	Albania																	
	ALGÉRIE	Algerie			1														
	ANGOLA	Angola																	
	BARBADOS	Barbados																	
	BELIZE	Belize		1	1														
	BRAZIL	Brazil		1	1														
	CANADA	Canada		1	1	1													
	CAP-VERT	Cape Verde																	
	CHINA PR.	China PR		1	1	1													
	CÔTE D'IVOIRE	Côte d'Ivoire																	
	CURAÇAO	Curaçao			1														
	EGYPT	Egypt																	
	EL SALVADOR	El Salvador			1														
	EUROPEAN UNION	EU-Bulgaria	EU-Bulgaria																
		EU-Croatia	EU-Croatia				1												
		EU-Cyprus	EU-Cyprus		1		1												
		EU-Denmark	EU-Denmark																
		EU-España	EU-España		-0.2		-0.2												
		EU-France	EU-France		1	1	1												
		EU-Germany	EU-Germany																
		EU-Greece	EU-Greece		1		1												
		EU-Ireland	EU-Ireland		0														
		EU-Italy	EU-Italy		1		1												
		EU-Latvia	EU-Latvia																
		EU-Lithuania	EU-Lithuania																
		EU-Malta	EU-Malta		1		1												
		EU-Netherlands	EU-Netherlands																
		EU-Portugal	EU-Portugal		1	1	1												
	FRANCE (St-Pierre et Miquelon)	FR-St Pierre et Miquelon																	
	GABON	Gabon																	
	GAMBIA	Gambia																	
	GHANA	Ghana			1														
	GRENADA	Grenada																	
	GUATEMALA	Guatemala			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													
	LIBERIA	Liberia			0														
	LIBYA	Libya																	
	MAROC	Maroc				0													
	MAURITANIA	Mauritania																	
MEXICO	Mexico		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
NAMIBIA	Namibia		1	1															
NICARAGUA	Nicaragua																		
NIGERIA	Nigeria																		
NORWAY	Norway				1														
PANAMA	Panama		0	0															
PHILIPPINES	Philippines																		
RUSSIA	Russian Federation																		
S. TOMÉ E PRINCIPE	S Tomé e Príncipe																		
SENEGAL	Senegal			1															
SIERRA LEONE	Sierra Leone																		
SOUTH AFRICA	South Africa		1	1															
ST. VINCENT & GRENADINES	St Vincent and Grenadines		-0.2	-0.2															
SYRIA	Syria																		
TRINIDAD & TOBAGO	Trinidad and Tobago			1															
TUNISIE	Tunisie				1														
TURKEY	Turkey																		
UNITED KINGDOM	Great Britain	Great Britain																	
	UK-Bermuda	UK-Bermuda																	
	UK-British Virgin Islands	UK-British Virgin Islands																	
	UK-Sta Helena	UK-Sta Helena			1														
	UK-Turks and Caicos	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															
NCC	Bolivia	Bolivia																	
	Chinese Taipei	Chinese Taipei		1	1														
	Costa Rica	Costa Rica					1	1	1	1	1	1	1	1	1	1	1	1	
	Guyana	Guyana																	
	Suriname	Suriname																	

NOTES: NO FISHING ACTIVITY (flags in green, 10 flags): FR-St Pierre et Miquelon, Guinée Rep, Nicaragua, Nigeria, Philippines, UK-British Virgin Islands, UK-Turks and Caicos, Uruguay, Bolivia, and Honduras.
 NO TARGETTING ACTIVITIES (some by-catch): EU-Denmark, EU-Netherlands, EU-Latvia, EU-Lithuania, Iceland, and United Kingdom.
 ERRORS/UNDER REVISION: Albania, Belize, Cape Verde, Côte d'Ivoire, EU-France, EU-Malta, Iceland, Ghana, S. Tomé e Príncipe, etc.

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: 2020)

FisheryID	Spc. Group	Species	Species/stock	SCORES (by time series)			N. flag fisheries ranked			Change (%) against 1990-19 (30 yrs)
				30 years (1991-20)	20 years (2001-20)	10 years (2011-20)	30 years (1991-20)	20 years (2001-20)	10 years (2011-20)	
1	Temperate tunas	ALB	ALB-N stock	7.02	7.79	7.16	12	13	10	-1%
2			ALB-S stock	5.79	6.08	6.51	10	10	9	2%
3			ALB-M stock	2.61	4.05	5.72	11	9	8	4%
4		BFT	BFT-E stock (ATE region)	5.85	6.94	8.32	11	9	9	-2%
5			BFT-E stock (MED region)	3.51	4.57	5.91	27	21	17	4%
6			BFT-W stock	8.70	9.20	9.84	9	7	6	0%
7	Tropical tunas	BET	BET-A stock (AT + MD)	6.48	7.34	7.60	29	28	27	1%
8		YFT	YFT-E region	6.61	7.54	8.02	23	20	17	1%
9			YFT-W region	4.72	5.20	5.33	25	24	22	2%
10		SKJ	SKJ-E stock	7.04	7.82	7.74	18	16	15	2%
11			SKJ-W stock	4.01	4.83	4.17	5	4	4	-2%
12	SWO & billfish	SWO	SWO-N stock	7.97	8.60	8.46	11	10	10	1%
13			SWO-S stock	7.05	7.23	7.16	9	9	8	0%
14			SWO-M stock	4.61	5.32	7.08	11	10	8	3%
15		BUM	BUM-A stock (AT + MD)	4.05	3.84	3.55	30	30	31	-1%
16		WHM	WHM-A stock (AT + MD)	5.35	5.38	5.22	17	18	16	1%
17		SAI	SAI-E stock	3.08	3.43	3.42	15	13	11	1%
18			SAI-W stock	3.66	3.51	3.97	18	16	12	2%
19		SPF	SPF-E stock	3.98	5.63	4.58	4	3	3	42%
20			SPF-W stock	3.21	3.70	2.93	6	6	6	-8%
21	Major shark species	BSH	BSH-N region	3.94	5.15	5.95	6	5	4	5%
22			BSH-S region	4.37	5.95	6.62	6	6	6	5%
23		POR	POR-ANE stock	0.42	0.72	0.58	9	12	11	7%
24			POR-ANW stock	2.83	2.85	2.53	4	6	8	4%
25			POR-ASE stock	0.70	1.13	2.33	4	3	2	0%
26			POR-ASW stock	0.44	0.78	2.50	6	4	1	0%
27		SMA	SMA-N region	3.85	5.34	6.20	6	7	7	28%
28			SMA-S region	4.73	6.99	6.83	7	7	6	23%
29	Small tuna species	BLF	ATL	3.03	3.71	3.76	15	12	9	0%
30		BLT	A+M	1.04	1.54	2.94	21	20	16	11%
31		BON	ATL	2.17	2.63	2.85	33	28	19	0%
32			MED	0.80	1.08	0.82	9	9	7	9%
33		BRS	A+M	0.92	1.38	2.00	3	3	1	0%
34		COM	A+M	0.00	0.00	0.00				new
35		FRI	ATL	4.66	5.46	5.62	27	23	22	5%
36		KGM	A+M	1.34	1.64	2.80	7	7	4	0%
37		LTA	ATL	3.85	4.62	4.94	31	25	21	2%
38			MED	0.56	0.80	1.24	17	14	11	0%
39		MAW	A+M	2.13	2.06	1.97	18	15	11	4%
40		SSM	A+M	0.50			4	3	2	0%
41		WAH	A+M	1.75	2.24	2.15	35	27	18	2%

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	Brasil	Canada	Côte D'Ivoire	EU.Germany	EU.Denmark	EU.España	EU.France	EU.Ireland	EU.Italy	EU.Malta	EU.Portugal	Ghana	Korea, Republic of	Mexico	Norway	Senegal	S. Tomé e Príncipe	United Kingdom	UK.Sta. Helena		U.S.A.	South Africa	UNCL.FLEETS
Recovered by	Maroc																							1	1
	Bahamas																					1			1
	Brasil		23				1																		24
	Canada																						1		1
	Côte D'Ivoire		2				1											1	1		2	1			8
	Cape Verde																				1				1
	Curaçao		1				1														2				4
	Algerie						1																		1
	EU.España			2			39	1	4			3							1	4	3	28	39		124
	EU.France		2				8	35	2												4	1		2	54
	EU.Greece																							1	1
	EU.Ireland									2															2
	EU.Italy					1					1	1												11	14
	EU.Malta																							36	36
	EU.Portugal						1		3														11	3	18
	Ghana		3										5									1			9
	Guatemala		1																			1			2
	Panama		1				1															1			3
	Senegal		3				1	2										14							20
	El Salvador		1																2						3
	Tunisie																							9	9
	Turkey																							1	1
	UK.Sta. Helena																					342			342
U.S.A.			1	2		1				1												22	3	30	
South Africa																							1	1	
UNCL.FLEETS			2		1	1		1													5	31	91	132	
Total recovered		0	37	5	2	2	0	56	38	12	2	1	3	5	0	0	0	15	4	4	362	95	1	198	842
Not yet recovered (at sea)		5		324			114	593	49	906	36	449	3		3	6	13			13	1236	584		3756	8090
TOTAL		5	37	329	2	2	114	649	87	918	38	450	6	5	3	6	13	15	4	17	1598	679	1	3954	8932

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	80901	81200	300	2020-10-02	Marine Institute	Alan Drumm	EU.IRELAND
BYP	81201	81400	200	2020-11-03	Oceanis srl	Paolo pignalosa	EU.MALTA
BYP	64201	64300	100	2020-11-03	Oceanis srl	Paolo pignalosa	EU.MALTA
BYP	32226	32250	25	2021-02-17	IEO Baleares	Miguel Cabanellas Reboredo	EU.ESPAÑA
BYP	64301	64325	25	2021-02-17	IEO Baleares	Miguel Cabanellas Reboredo	EU.ESPAÑA
BYP	81401	81425	25	2021-02-17	IEO Baleares	Miguel Cabanellas Reboredo	EU.ESPAÑA
SEC	50650	50749	100	2021-04-27	IEO-Málaga	Salvador García Barcelona	EU.ESPAÑA
BYP	32251	32500	250	2021-05-19	DIRECTORATE OF FISHERIES	Maja K. Rodriguez Brix	NORWAY
BYP	82001	83000	1000	2021-05-11	Marine Institute	Alan Drumm	EU.IRELAND
BYP	81426	82000	575	2021-05-11	Marine Institute	Alan Drumm	EU.IRELAND
BYP	64326	64525	200	2021-05-12	Cefas Laboratory	David Righton	UNITED KINGDOM
BYP	83001	83800	800	2021-05-12	Cefas Laboratory	David Righton	UNITED KINGDOM
BYP	83801	84000	200	2021-08-05	Technical University of Denmark	Kim Aarestrup	EU.DENMARK
BYP	84001	84100	100	2021-09-08	IEO-Murcia	Sámar Saber Rodriguez	EU.ESPAÑA
BYP	32501	32600	100	2021-09-03	IEO-Murcia	Sámar Saber Rodriguez	EU.ESPAÑA
BYP	64526	64625	100	2021-09-03	IEO-Murcia	Sámar Saber Rodriguez	EU.ESPAÑA
BYP	84101	84500	400	2021-09-21	Cefas Laboratory	David Righton	UNITED KINGDOM

Table 9. Summary of 2020 Domestic Observer information (form ST09) provided during the Reporting Period (including discards) by CPCs and species groups. Values are in numbers and weight in kg.
 Tableau 9. Résumé des informations relatives aux observateurs nationaux (formulaire ST09) fournies pendant la période de déclaration (rejets compris) par CPC et groupe d'espèces au titre de 2020. Les valeurs sont exprimées en kg et nombre.
 Tabla 9. Resumen de la información de los observadores nacionales de 2020 (formulario ST09) facilitada durante el periodo de comunicación (incluidos los descartes) por CPC y grupos de especies. Los valores se expresan en números y el peso en kg.

Values	FlagCode	SpeciesGrp							
		1-Tuna (major sp.)	2-Tuna (small)	3-Tuna (other)	4-Sharks (major)	5-Sharks (other)	7-Sea turtles		8-Seabirds
Sum of Number of Dead Discards	BLZ	231304	64274			6	735	0	
	BRA	24	0		5	0	7	11	1
	CHN	55	76		60	160	96	0	
	CPV	10695	0		1		150	1	
	CUW	31683	24402			1	292	1	
	DZA	0							
	EGY	0							
	EU-CYP	15				0	0		
	EU-ESP	36685	46050	16010		9	1111	0	3
	EU-FRA	19506	5946	0		1	846	0	
	EU-GRC	35							
	EU-PRT	0			0	7			1
	GTM	1	3120		1	4	207	0	
	JPN					560	40	6	124
	MEX	2446	22	92		0	2		
	NOR	0							
	RUS	0	0			0	0		
	SLV	269	92261			5	724	1	
	TAI	610	0		2	0			
	TUN	25							
TUR	0								
USA	407	18	14		29	107	0		
ZAF					10	28	0	66	
PAN	0	0				0			
CAN	61				96	1			
Sum of No of Live Discards	BLZ	1	8			58	2028	128	
	BRA	21	0	0		5	59	224	0
	CHN	5	22	6		523	272	5	
	CPV	0	0	0			56	7	
	CUW	2	0			14	1368	107	
	DZA	0							
	EGY	0							
	EU-CYP	0				1	2		
	EU-ESP	21	44	0		9	2230	202	1
	EU-FRA	0	0	0		2	942	129	
	EU-GRC	0							
	EU-PRT	0		0		0			0
	GTM	13	0	0		16	1614	127	
	JPN					390	60	23	16
	MEX	4854	34	0		34	74		
	NOR	0							
	RUS	0	0			2	1183		
	SLV	23	0			37	3993	301	
	TAI	52	2	1		3			
	TUN	0							
TUR	0								
USA	206	3	28		334	244	5		
ZAF					0	70	50	4	
PAN	0	0				1			
CAN	46				1329	37			
Sum of No Discards of Unknown Status	BLZ	0	0			0	0	0	
	BRA	50	0	32		26	246	1	0
	CHN	0	0	0		21	4	0	
	CPV	0	0	0			0	0	
	CUW	0	0			0	1	0	
	DZA	0							
	EGY	0							
	EU-CYP	0				0	2		
	EU-ESP	744	22	1		12	428	19	0
	EU-FRA	0	0	0		0	0	0	
	EU-GRC	0							
	EU-PRT	0		0		0			0
	GTM	1	0	0		0	0	0	
	JPN					0	2	0	0
	MEX	0	0	0		0	0		
	NOR	0							
	RUS	0	0			0	0		
	SLV	1	6			0	2	0	
	TAI	2	0	0		0			
	TUN	0							
TUR	0								
USA	0	0	0		0	0	0		
ZAF					0	0	0	2	
PAN	0	0				0			
CAN	1				15	3			
Sum of Catch Numbers	BLZ	149	1853			11	0	0	
	BRA	956	16	6		1321	0	1	0
	CHN	10276	118	105		2205	376	5	
	CPV	22	18	13			0	0	
	CUW	182	2753			0	4	0	
	DZA	4220							
	EGY	3691							
	EU-CYP	230				0	0		
	EU-ESP	50573	5329	22		29	46	1	0
	EU-FRA	409	3572	2		0	10	0	
	EU-GRC	344							
	EU-PRT	130		1		60			1
	GTM	161	1520	2		0	2	0	
	JPN					0	0	0	0
	MEX	56518	3790	14		64	336		
	NOR	779							
	RUS	2454	3030996			2	1183		
	SLV	19	3357			0	1	0	
	TAI	38989	120	186		1241			
	TUN	21465							
TUR	244								
USA	2681	34	3		7	0	0		
ZAF					0	0	0	0	
PAN	0	190				0			
CAN	890				27	0			
Total Sum of Number of Dead Discards		333821	236169	16185	888	4346	20	195	
Total Sum of No of Live Discards		5244	113	35	2757	14233	1308	21	
Total Sum of No Discards of Unknown Status		799	28	33	74	688	20	2	
Total Sum of Catch Numbers		195382	3053666	354	4967	1958	7	1	

Table 11. Sea turtle species dead discards (DD) and live discards (DL) 2020 data reported on Domestic Observer form (ST09) during the Reporting Period.

Tableau 11. Données sur les rejets morts (DD) et les rejets vivants (DL) de tortues marines déclarées au titre de 2020 dans le formulaire des observateurs nationaux (ST09) pendant la période de déclaration.

Tabla 11. Datos de descartes muertos (DD) y descartes vivos (DL) de especies de tortugas marinas para 2020 comunicados en el formulario de observadores internos (ST09) durante el período de comunicación.

Values	FlagCode	7-Sea turtles							TOTAL
		<i>Caretta caretta</i>	<i>Chelonia mydas</i>	<i>Cheloniidae</i>	<i>Dermochelys coriacea</i>	<i>Eretmochelys imbricata</i>	<i>Lepidochelys kempii</i>	<i>Lepidochelys olivacea</i>	
Sum of Number of Dead Discards	BLZ	0	0					0	0
	BRA	11	0			0		0	11
	CHN					0			0
	CPV			1					1
	CUW	0	0			0	0	1	1
	EU-ESP	0	0	0		0	0	0	0
	EU-FRA	0	0			0		0	0
	GTM	0	0	0		0		0	0
	JPN	0				2			4
	SLV	0	0			0	0	1	1
	USA	0				0			0
ZAF	0	0	0		0			0	
Sum of No of Live Discards	BLZ	18	6	1			12	91	128
	BRA	217	1			6		0	224
	CHN					5			5
	CPV			7					7
	CUW	17	2			3	1	84	107
	EU-ESP	56	3	46		17	2	77	202
	EU-FRA	15	3			5		106	129
	GTM	36	1	2		2		86	127
	JPN	2				13		8	23
	SLV	27	10			7	20	237	301
	USA	1				4			5
ZAF	32	6	10		2			50	
Sum of No Discards of Unknown Status	BLZ	0	0	0			0	0	0
	BRA	0	0			0		1	1
	CHN					0			0
	CPV			0					0
	CUW	0	0			0	0	0	0
	EU-ESP	1	0	14		1	2	1	19
	EU-FRA	0	0			0		0	0
	GTM	0	0	0		0		0	0
	JPN	0				0		0	0
	SLV	0	0			0	0	0	0
	USA	0				0			0
ZAF	0	0	0		0			0	
Sum of Catch Numbers	BLZ	0	0	0			0	0	0
	BRA	0	0			1		0	1
	CHN					5			5
	CPV			0					0
	CUW	0	0			0	0	0	0
	EU-ESP	0	0	1		0	0	0	1
	EU-FRA	0	0			0		0	0
	GTM	0	0	0		0		0	0
	JPN	0				0		0	0
	SLV	0	0			0	0	0	0
	USA	0				0			0
ZAF	0	0	0		0			0	
Total Sum of Number of Dead Discards		11	0	1	2	0	0	6	20
Total Sum of No of Live Discards		421	32	66	64	23	13	689	1308
Total Sum of No Discards of Unknown Status		1	0	14	1	2	0	2	20
Total Sum of Catch Numbers		0	0	1	6	0	0	0	7

Table 13. Mammals dead discards (DD) and live discards (DL) 2020 data reported on Domestic Observer form (ST09) during the Reporting Period.

Tableau 13. Données sur les rejets morts (DD) et les rejets vivants (DL) des mammifères déclarées au titre de 2020 dans le formulaire des observateurs nationaux (ST09) pendant la période de déclaration.

Table 13. Datos de descartes muertos (DD) y descartes vivos (DL) de mamíferos para 2020 comunicados en el formulario de observadores internos (ST09) durante el período de comunicación.

		9-Mammals			
Values	FlagCode	Delphinidae	Globicephala melas	Grampus griseus	TOTAL
Sum of Number of Dead Discards	SLV	0			0
	USA			0	0
Sum of No of Live Discards	SLV	1			1
	USA			9	2
Sum of No Discards of Unknown Status	SLV	0			0
	USA			0	0
Sum of Catch Numbers	SLV	0			0
	USA			0	0
Total Sum of Number of Dead Discards		0		0	0
Total Sum of No of Live Discards		1		9	2
Total Sum of No Discards of Unknown Status		0		0	0
Total Sum of Catch Numbers		0		0	0

Table 21. Reported catch (t) of BFT (Eastern and Western stocks) according to the Monthly Catch Reports (2121 is incomplete) as of 2121-10-12.

Tableau 21. Prises déclarées (t) de thon rouge (stocks de l'Est et de l'Ouest) d'après les rapports mensuels de capture (l'année 2121 est incomplète) au 2121-10-12.

Tabla 21. Captura declarada (t) de atún rojo (stocks oriental y occidental) según los informes de captura mensuales (2121 está incompleto) a 12 de octubre de 2121.

Catch (t)			Eastern Stock Unit														Grand Total		
Season Year	Fishing Year	Month	Albania	Algerie	China PR	Egypt	European Union	Iceland	Japan	Korea Rep	Libya	Maroc	Norway	Syria	Tunisie	Turkey			
2019	2019	1					25										0	25	
		2					133											0	133
		3					368											0	368
		4					442											1	442
		5		0	0		59	6025				0	1837			72	259	425	8678
		6		156	1437		204	6967				2044	856		0	0	2117	1336	15116
		7						496					126			0		1	623
		8						419	0					57			4	2	481
		9						329	0					34				3	366
		10						236	0			183		24				1	443
		11						104	0			18						0	122
		12						66	0									3	69
2019 Total			156	1437	0	263	15610	0		200	2044	2934	0	72	2380	1771	26867		
2020	2020	1					82											82	
		2					154											154	
		3					224											224	
		4					448												448
		5		169	0		0	6818				112	2048			572	607	10326	
		6			1350		122	5738				765	765		79	2016	1645	12481	
		7			299			877					250			60		1485	
		8						324	0				105	44				472	
		9						287		70	31		107	146				640	
		10					50		145	1	1395	166	47		1		5	1810	
		11					62		116		1285	14						1478	
		12						46		12								57	
2020 Total			169	1649	112	122	15258	1	2762	211	878	3322	191	79	2653	2252	29657		
2021	2021	1					41	53			169							263	
		2					189										241	429	
		3					745											745	
		4					541											541	
		5		0	0		127	8426				522	795			60	782	10712	
		6		162	1010		158	5929				1654	1977			2669	1234	14793	
		7			457			781	1				5					1242	
		8						309					93					402	
		9						128		65			67	68				328	
		10						8		389	83		6					486	
2021 Total			162	1467		327	17109	1	454	83	2344	2943	68		2729	2257	29943		

Catch (t)			Western Stock Unit						Grand Total	
Season Year	Fishing Year	Month	Canada	FR-St Pierre et Miquelon	Japan	Mexico	UK-Bermuda	USA		
2019	2019	1		0			3		28	31
		2		0			5		97	102
		3		0			21		17	38
		4		0			13		6	20
		5		0			0		21	21
		6		43	0		0		72	115
		7		4	0		0		319	323
		8		68	0		0		167	235
		9		240	0		0		249	489
		10		228	0	147	0		203	578
		11		57	0	259	0		12	328
		12		2	0		1		24	27
2019 Total			642	0	406	44	1215	2307		
2020	2020	1		0			0	1	29	
		2		0			2	1	114	
		3		0			11	0	9	
		4		0			13	0	5	
		5		0			2	0	5	
		6		7	0		0	0	58	
		7		2	0		0	0	143	
		8		34	0	0	0	0	354	
		9		177	0	0	0	0	321	
		10		192	0	66	0	0	155	
		11		65	0	325	0	0	45	
		12		7	0	16	0	0	68	
2020 Total			484	0	407	29	1305	2227		
2021	2021	1		0			0	0	22	
		2		0			0	0	79	
		3		0			32	1	19	
		4		0			37	0	15	
		5		0			1	0	10	
		6		13	0		0	0	60	
		7		11	0		0	0	355	
		8		120	0		0	0	188	
		9			0		0	0	0	
2021 Total			143	0	70	1	749	963		

Table 22. Quantity (t) of BFT caged by fishing and farming flag CPCs, between 2019 and 2020, as reported under Rec. 08-05 as of 2022-10-12.

Tableau 22. Volumes (t) de thon rouge mis en cages, par CPC de pavillon de pêche ou CPC de ferme, entre 2019 et 2020, tels que déclarés en vertu de la Rec. 08-05 au 2022-10-12.

Tabla 22. Cantidades (t) de atún rojo introducido en jaulas entre 2019 y 2020 por CPC del pabellón pesquero y CPC de la granja tal y como se declararon con arreglo a la Rec. 08-05 a 12 de octubre de 2022.

Caging Wgt (t)		Farming Flag							Grand Total	
Farming Year	Fishing Flag	Albania	EU-Croatia	EU-España	EU-Malta	EU-Portugal	Maroc	Tunisie		Turkey
2019	EU.Italy								0	0
	Libya							239		239
	Maroc						5491			5491
	Tunisie							1299		1299
	Turkey								2099	2099
	Eu.Portugal			745	5882	8700	111			536
EU-Malta								160		160
2019 Total			745	5882	8700	111	5491	1698	2634	25262
2020	EU.España								160	160
	EU.Italy								0	0
	Maroc						3098			3098
	Tunisie							2177		2177
	Turkey								1701	1701
Eu.Portugal			1294	6275	8746	158			739	17212
2020 Total			1294	6275	8746	158	3098	2177	2599	24347
2021	EU.España								211	211
	Libya							298	447	745
	Maroc	148					1418			1566
	Tunisie							2907		2907
	Turkey								1446	1446
	Eu.Portugal			812		16913	159			637
Unclassified flag							4636			4636
2021 Total		148	812	16913	159	6054	3205	2741	30031	

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

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

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

Reporting CPC	Year	Semester	Date reported	BET		SWO		* Other
				SD	RC	SD	RC	
Canada	2020	1	2020-10-26	√		√		
		2	2021-04-05	√		√		
	2021	1	2021-09-15	√		√		
China PR	2020	2	2021-03-25	√	√	√	√	
	2021	1	2021-09-10	√	√			
Chinese Taipei	2020	2	2021-03-30	√	√	√		
	2021	1	2021-09-14	√	√	√		
Côte d'Ivoire	2020	1	2020-11-10	√				
		2	2021-03-31	√				
	2021	1	2021-09-30	√				
El Salvador	2020	2	2021-09-07	√				
EU (all flags combined)	2020	1	2020-10-08		√			
		2	2021-05-03	√	√	√	√	
	2021	1	2021-09-20	√	√	√	√	
Ghana	2020	1	2021-03-30		√			
Japan	2020	2	2021-03-25	√	√	√	√	
	2021	1	2021-09-15	√	√	√	√	
Korea Rep	2020	2	2021-02-10	√	√	√	√	
	2021	1	2021-09-08	√	√	√	√	
Maroc	2021	1	2021-09-14	√				
Mexico	2020	2	2021-04-05	√		√		
Senegal	2020	1	2020-10-19					√
		2	2021-08-31					√
	2021	1	2021-08-31					√
Turkey	2020	2	2021-03-22	√				
	2021	1	2021-08-11	√			√	
USA	2020	1	2021-03-31	√		√	√	
		2	2021-04-05	√		√		√
	2021	1	2021-09-15	√		√	√	√

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

Table 24. Swordfish: Task 1 (t) versus trade (SDP) in product weight (t), by stock and flag between 2013 and 2021 (2021 with first semester only). No information after 2012 for re-export certificates (RC).
 Tableau 24. Espadon : Données de la tâche 1 (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2013 et 2021 (2021 uniquement avec le premier semestre). Aucune information après 2012 pour les certificats de réexportation (RC).
 Tabla 24. Pez espada: Tarea 1 (t) frente a estadísticas comerciales (SDP) en peso de producto (t), por stock y pabellón entre 2013 y 2021 (2021 solo con el primer semestre). No hay información para los certificados de re-exportación (RC) después de 2012.

Stock	Status	FishFlag	Task 1								Trade Only SD (statistical documents)									
			2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020	2021	
ATN	CP	Barbados	16	21	29	20	21	18	10	12										
		Belize	142	76	1	3	59	145	117	111	63	21			30	11				
		Brazil										0								
		Canada	1565	1616	1588	1559	1209	787	997	1343	1017	35		1		464				
		China PR	96	60	141	135	81	86	92	96	59	88		72	35	14	75	20	16	
		Côte d'Ivoire				27	21				3				5	25	16			
		Curaçao					0													
		El Salvador					0													
		EU-España	4084	3750	4013	3916	3588	3186	3112	3587	372					6				
		EU-France	44	28	66	90	79	80	82	90	19									
		EU-Germany								0										
		EU-Greece									0									
		EU-Ireland	2	3	15	15	10	13	3	24										
		EU-Italy									0									
		EU-Portugal	1438	1241	1420	1460	1871	1691	2392	2070			0							
		FR-St Pierre et Miquelon	18	3																
		Great Britain	0		0		0		0	0										
		Grenada			39	29	36	36	22	15										
		Guatemala					0													
		Guinea Ecuatorial	13																	
		Iceland								0										
		Japan	300	545	430	379	456	325	362	419	0	1					0			2
		Korea Rep	83	35	2	9	19	9	9	14		3	1	2			144			
		Liberia				18	95	5	7	3										
		Maroc	1062	1062	850	900	900	950	950	936	409	554		1018						
		Mexico	33	32	31	37	64	45	30	21										
		Norway				0		0												
Philippines	9	14																		
Senegal	43	49	78	52	51	44	57		795	0		51	31	339	800	40				
St Vincent and Grenadines	4	40	102	33	46	26	12	7			3	88	10	6	4					
Trinidad and Tobago	16	26	17	13	36	3	6	8	6	9		6								
UK (Overseas Territories)									4											
UK-Bermuda	1	1	1	2	1	2	2	6												
UK-British Virgin Islands		0	0																	
UK-Turks and Caicos	13	17								2										
USA	2944	1945	1718	1498	1405	1275	1736	1463	22		15		1		0					
Venezuela	24	24	29	53	52	31	31	14												
NCC	Chinese Taipei	115	85	133	152	96	169	122	172	49	70	46	63	35	66	104	22	28		
	Guyana			0	6	10	5	2	5											
	Dominica		0	0	0	1	0	0	0											
NCO	Saint Kitts and Nevis			0		0	2		1											
	Sta Lucia	0	0	0	0	1														
	Vanuatu	2	4	7									25							
ATN Total		12069	10678	10712	10405	10208	8931	10154	10444	2819	784	65	1326	146	931	1143	81	46		
ATS	CP	Angola		18			13			12	8									
		Belize	136	45	111	176	166	115	55	2	19			37	9	31	14			
		Brazil	2384	2892	2599	2935	2406	2798	2859	2105	569	270	0	141		869	26			
		China PR	196	206	328	222	302	355	211	89	171	166	40	220	65	66	235	105	39	
		Côte d'Ivoire	133	68	48	31	19	57	123	17						12	30			
		Curaçao					0													
		El Salvador					0													
		EU-España	4184	4113	5059	4992	4654	4404	4224	4442	10	12	1			12	8			8
		EU-France					0	5		0										
		EU-Portugal	125	252	236	250	466	369	323	335									0	
		Gabon		0																
		Ghana	37	26	56	36	55	6												
		Guatemala					0													
		Japan	684	976	659	637	915	640	648	551	6	23		1	0	10	11	1	0	
		Korea Rep	47	53	5	16	9	15	9	15		21	21	10	6	1	29			
		Namibia	129	395	225	466	600	881	811	789	37	11						45	13	
		Panama					0													
		Philippines	35	58							44	59	2							
		S Tomé e Príncipe	60	94	145	77	65	1	3	30										
		Senegal	178	143	97	173	160	92	166							43	31			
		South Africa	171	152	218	164	189	189	251	149	131	30	1	2	26	108	2			
		St Vincent and Grenadines	2	19	0	5	9	4	15								3			
		UK-Sta Helena	5	6	2															
		Uruguay	103																	
		USA	0							0										
		NCC	Chinese Taipei	582	451	554	480	527	472	395	410	146	411	173	303	121	215	296	47	196
		NCO	Australia														2			
	Vanuatu	0	1	1																
ATS Total		9191	9970	10345	10661	10557	10403	10094	8935	1145	1012	238	715	228	1370	686	198	256		
MED	CP	Algerie	487	702	715	847	755	725	517	502										
		Egypt	1	0				4		4										
		EU-Croatia	10	16	10	25	20	28	33	23										
		EU-Cyprus	51	59	54	53	50	45	24	30			0							
		EU-España	1607	2073	2290	1733	1487	1470	1549	1434	10					8				
		EU-France	66	127	182	179	113	86	71	110										
		EU-Greece	1731	1344	761	761	392	350	745	657										
		EU-Italy	3318	3931	4942	4568	3894	2314	2473	2250										
		EU-Malta	460	376	489	410	330	308	407	361										
		Libya				585	960	30	70	26	22									
		Maroc	963	968	604	1395	1350	1368	982	951	3	66		3						
		Syria	4																	
		Tunisie	1262	1302	1307	1273	1377	1338	934	918	3									
		Turkey	111	71	45	96	592	575	414	402							18	12	11	
MED Total		10070	10969	11983	12300	10390	8681	8176	7665	15	66	0	3		26	12	11			
UNK										5950	2089	466	2645	10	10	85		1		
TOTAL		31330	31617	33040	33365	31155	28014	28424	27044	9929	3951	769	4689	384	2337	1926	290	302		

Table 25. Bigeye: Task 1 (t) versus trade (SDP) in product weight (t), by stock and flag between 2013 and 2021 (2021 with first semester only). No information after 2012 for re-export certificates (RC).

Tableau 25. Thon obèse : Données de la tâche 1 (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2013 et 2021 (2021 uniquement avec le premier semestre). Aucune information après 2012 pour les certificats de réexportation (RC).

Tabla 25. Patudo: Tarea 1 (t) frente a estadísticas comerciales (SDP) en peso de producto (t), por stock y pabellón entre 2013 y 2021 (2021 solo con el primer semestre). No hay información para los certificados de re-exportación (RC) después de 2012.

Stock	Status	FishFlag	Task 1								Trade								
			2013	2014	2015	2016	2017	2018	2019	2020	Only SD (statistical documents)								
			2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020	2021
A+M	CP	Angola					3	0	253										
		Barbados	11	26	30	19	16	29	14	20									
		Belize	1377	1524	1877	1764	1961	2135	2307	991	631	108	215	462	749	460	483		39
		Brazil	3623	6456	7750	7660	7258	5096	6249	6284	8	9		5					
		Canada	197	218	258	171	214	237	193	102									
		Cape Verde	1378	2368	2764	1680	1107	1418	880	576	244			1					
		China PR	2371	2232	4942	5852	5514	4823	5718	3614	2214	2169	2586	6076	5027	4931	3957	1328	
		Côte d'Ivoire	681	441	12	544	1239	384	2334	141	60			374	444	316	361	23	
		Curaçao	1998	2357	2573	3598	2844	3530	2787	1519	602		259	857	751				
		El Salvador			992	1450	1826	2634	2464	1518						96			
		EU-Belgium											39						
		EU-España	10162	10878	10058	11469	11544	8400	9117	5997	622	1495	548	1272	2271	1275	215		207
		EU-France	3278	3891	2836	4772	4077	4057	5128	2106	470	1177	386	840	551	564	765		587
		EU-Hungary														15			
		EU-Ireland				0	0												
		EU-Italy						7		7	0		44			127			
		EU-Netherlands													138				
		EU-Portugal	5345	3869	3135	2187	3146	4405	3146	3069	77	150	121						
		FR-St Pierre et Miquelon	0	0															
		Gambia								0									
		Ghana	2963	4175	5918	5194	3838	3636	2917	2933	2476	893	197	433	670	550	146	17	83
		Great Britain					0												
		Grenada			18	23	33	27	19	11					0				
		Guatemala	168	1007	340	1103	1602	1488	1623	906	3								
		Guinea Ecuatorial	3	10	17	4	11	7	8	6									
		Guinée Rep	1674	1111															
		Japan	13397	13603	12390	10365	10994	9881	9340	9596	110	76		92	26	15	53	46	17
		Korea Rep	1151	1039	677	562	432	623	540	587	1935	528	531	296	560	406	473	2	
		Liberia				27	98	1	3	222									
		Maroc	308	300	309	350	410	500	850	1033		2		0					
		Mauritania				1													
		Mexico	2	1	2	2	3	3	3	3									
		Namibia	135	240	465	359	141	109	79	568	36		12	3		10	116	50	
		Panama	2853	2341	1289	2337	1664	2067	3052	1183	169				136	12	34	316	
		Philippines	1323	1964							746	2108	434						
		S Tomé e Príncipe	107	110	633	421	393	2	6	11									
		Senegal	606	369	1031	1500	2978	2870	2272	2700	493	299	6	474	237	228	300	147	
		South Africa	435	332	193	121	257	282	432	357	98	4		36			48		
		St Vincent and Grenadines	16	30	496	622	889	428	504	220			349	682	359	375	331	254	
		Trinidad and Tobago	37	59	77	37	25	17	13	10	0	0							
		Turkey									1								
		UK-Bermuda	0	0	0				0	1									
		UK-Sta Helena	19	17	44	77	70	45	4	0	8			42					
		UK-Turks and Caicos	4	2															
		Uruguay	30																
		USA	903	892	1082	568	836	921	829	816	11	8	2		2				
		Venezuela	94	169	132	156	318	165	28	79					249	104			
	NCC	Chinese Taipei	10316	13272	16453	13115	11845	11630	11288	9226	9571	10725	12330	13612	9464	10426	11186	4496	
		Guyana			6	25	34	53	2	4									
	NCO	Congo								0	27								
		Dominica		0	0	0	0												
		Ecuador												19					
		Lebanon									1								
		Mixed flags (EU tropical)			989	1187	972	1049	1069	1030									
		Saint Kitts and Nevis			0	4	1			1									
		Sta Lucia			6	10	24	13	13	17									
		Unclassified flag									0	160		620	499	203	662		33
		Vanuatu	9	4															
		Vietnam									23								
A+M Total			66976	75307	79795	79338	78618	72971	75484	57464	20637	19911	18058	26198	22132	20114	19131	6679	966
UNK											441	58	81	263	32	8	219	24	
TOTAL			66976	75307	79795	79338	78618	72971	75484	57464	21077	19968	18138	26461	22164	20123	19349	6702	966

Table 26. Amounts (t) of various tuna and tuna-like species transhipped at sea as reported under Rec. 06-11 by product type.

Tableau 26. Volumes (t) de divers thonidés et espèces apparentées transbordées en mer tels que déclarés en vertu de la Rec. 06-11, par type de produit.

Tabla 26. Cantidades (t) de varios tónidos y especies afines transbordadas en el mar y declaradas con arreglo a la Rec 06-11, por tipo de producto.

Year	Fishing Flag	Species Code	Product Type (t)										Grand Total				
			Dressed weight	Gilled & gutted	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	Head off	Roes					
2019	Chinese Taipei	ALB	2			6		198								206	
		BET		8674												8674	
		BSH	30													30	
		BUM	10													10	
		OIL	13													13	
		OTF	0		0						6				4	10	
		SAI	3													3	
		SPF	0													0	
		SSP	2													2	
		SWO	222													222	
		WAH	1							1						2	
		WHM		0												0	
	YFT		411												411		
	OPA	11													11		
	DOL					1			1						1		
																120	
		China, P.R.	ALB	5					115							120	
			BET		4700											4700	
			BUM	28	0											28	
			COM	4						0						4	
			MLS	0												0	
			OIL	13								1				14	
			OTF	0												0	
			SAI	0												0	
			SSM	0												0	
			SWO	175										23		198	
			WAH	0												0	
			YFT		232											232	
		OPA	3								3				6		
		SFA	0												0		
																38	
		Korea, Republic of	ALB						38							38	
			BET		141											141	
			MLS		0											0	
			SBF		41											41	
			SWO	5												5	
		YFT		283											283		
																1222	
		Japan	ALB	2	3635				1222							1222	
			BET	0							0					0	
			BIL	3	0											3	
			BLM	8					0							8	
			BSH	71	11											81	
			BUK	69	56											126	
			BUM	3												3	
			COM			0										0	
			MAK	1	1											2	
			MLS	1												1	
			OIL	9						1	0	12				13	
			OTF			0										9	
			SAI		1143				0							1143	
			SBF							0						0	
			SKJ	1		2		0								3	
			SMA	4												4	
			SSM	1												1	
			SSP	239		77										316	
			SWO	4												4	
			WAH		0											0	
		WHM	1	1964											1965		
		YFT	1												1		
		MAW	32										0		32		
		OPA							1						1		
		DOL	12												12		
		SFA		69											69		
		BET		8											8		
		YFT														342	
		St. Vincent and Grenadines	BET		342											342	
			YFT		21											21	
		Côte d'Ivoire	BET		247											247	
			SWO	12	27											12	
		YFT													27		
		Senegal	BET		217											217	
			YFT		10											10	
		Namibia	BET		100											100	
			YFT		81											81	
		2019 Total		1000	22417	80	7	0	1577	0	21	23	4		25129		
	2020	Chinese Taipei	ALB		7979				225							225	
			BET													7979	
			SWO	167												167	
			YFT		536											536	
			BLZ	3												3	
		China, P.R.	ALB							158							158
			BET		2829					272							3101
			BUM	33						4						37	
			COM	1						0						1	
			MLS		0											0	
			OIL	5						0						6	
			OTF	1												1	
			SAI	0	0											0	
			SWO	166	3					21			1			192	
			YFT		218					15						233	
		OPA	1						1						2		
		Korea, Republic of	BET		209											209	
			BUK	20												20	
			MLS		0											0	
			SBF		238											238	
	SWO		8												8		
	YFT			190											190		
	Japan	ALB		3					456						458		
		BET		4502	0										4502		
BLM		3	0											3			
BUK		47												47			
BUM		74	63					2						139			
COM		5												5			
MLS		0	1											1			
OTF		1	1	1						2				5			
SAI		4	0											4			
SBF			398											398			
SKJ								0						0			
SPF		0												0			
SSM		0												0			
SSP		0												0			
SWO	322		137							39			498				

Year	Fishing Flag	Species Code	Product Type (t)										Grand Total
			Dressed weight	Gilled & gutted	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	Head off	Roes	
2020		WAH	0										0
		YFT		1165									1165
		OPA	6										6
		DOL						1					1
		SFA	0										0
	St. Vincent and Grenadines	BET		312									312
		SWO	5										5
	Senegal	YFT		108									108
		BET		286									286
		SWO	3										3
	Namibia	YFT	7										7
		ALB						158					158
		BET		177									177
		YFT	19										19
	2020 Total			874	19250	138			1313		2	40	21618
2021	Chinese Taipei	ALB						1127					1127
		BET		1439									1439
		BUM	5								1		6
		OIL	10										10
		OTF	0							13			13
		SAI	0										0
		SKJ						0					0
		SSP	3										3
		SWO	39										39
		YFT		94									94
	China, P.R.	BET		543									543
		SWO	6										6
		YFT		35									35
	Korea, Republic of	BET		63									63
		SWO	2										2
		YFT		55									55
	Japan	ALB						91					91
		BET		2593									2593
		BUM	103	34									137
		MLS	1	0									1
		OIL	17										17
		OTF	3							46			46
		SSP	3										3
		SWO	214		33								247
		YFT		782									782
		OPA	2										2
	SFA	2										2	
	Namibia	ALB						983					983
		BET		50									50
		YFT		12									12
ALB							3					3	
BET			168									168	
BUM			2									2	
SWO	4										4		
YFT		10									10		
2021 Total			412	5882	34			2205		59	1	8593	

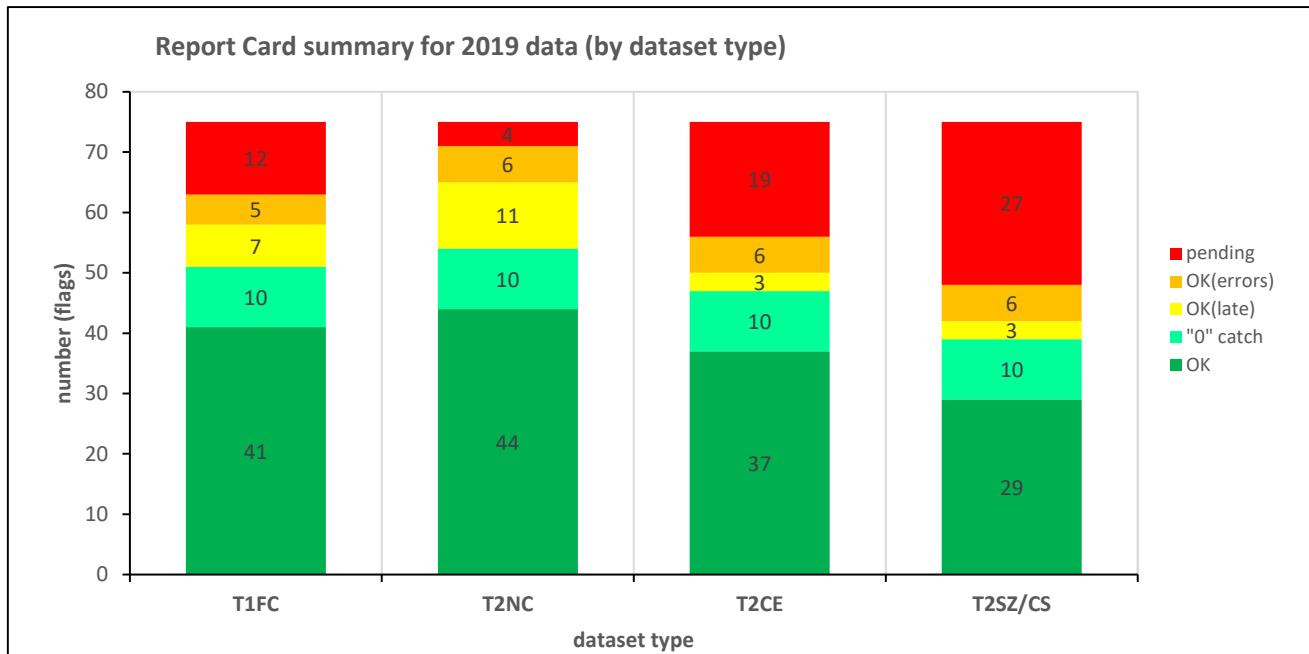
Table 27. Volumes published during the Reporting Period, within the ICCAT series of periodic publications.

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

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

Publication			Period	Format			Content
Name	Vol #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	77		2020			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Collect. Vol. Sci. Pap.	78		2021			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Informe Bienal	2020-2021 (Part I)	1	2020			√	Report of the 26th Regular Meeting of the Commission
		2	2020			√	Informe del SCRS
		3	2020			√	Informes anuales
		4				√	Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al PWG)
Boletín estadístico	47		1950-2020			√	Estadísticas ICCAT - Volumen 47 será publicado en enero del 2022
Newsletter	33		Sept. 2021			√	Noticias

Figure 1. Summary of ICCAT CPC reporting status on Task 1/2 for 2020 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 2020 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 2020 (cubre toda la información enviada durante el periodo de comunicación).



COM 2021 (upper figure)

Values	Rep. status	Dataset type			
		T1FC	T2NC	T2CE	T2SZ/CS
number	OK	41	44	37	29
	"0" catch	10	10	10	10
	OK(late)	7	11	3	3
	OK(errors)	5	6	6	6
	pending	12	4	19	27
	TOTAL	75	75	75	75
%	OK	55%	59%	49%	39%
	"0" catch	13%	13%	13%	13%
	OK(late)	9%	15%	4%	4%
	OK(errors)	7%	8%	8%	8%
	pending	16%	5%	25%	36%

2021 SCRS

Values	Rep. status	Dataset type			
		T1FC	T2NC	T2CE	T2SZ/CS
number	OK	39	36	34	28
	"0" catch	9	9	9	9
	OK(late)	4	5	2	1
	OK(errors)	7	13	7	7
	pending	16	12	23	30
	TOTAL	75	75	75	75
%	OK	52%	48%	45%	37%
	"0" catch	12%	12%	12%	12%
	OK(late)	5%	7%	3%	1%
	OK(errors)	9%	17%	9%	9%
	pending	21%	16%	31%	40%

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 (1991 to 2020). Only the most important fisheries (representing ±97.5% of Task 1 total catch) are shown. For each data series, Task 1 (DSet= "t1", in t) is visualised against its equivalent Task 2 availability (DSet= "t2") scheme. The Task 2 colour scheme, has a concatenation of characters ("a"= T2CE exists; "b"= T2SZ exists; "c"= T2CS exists) that represents the Task 2 data availability in the ICCAT-DB system. The legend contains the colour scheme 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 (1991 à 2020). Seules les pêcheries les plus importantes (représentant ±97,5% de la prise de la tâche 1) sont présentées. Chaque série de données de la tâche 1 (DSet= "t1", en t) est représentée par rapport au schéma de disponibilité équivalent de la tâche 2 (DSet= "t2"). Le schéma de couleurs de la tâche 2 présente une concaténation de caractères ("a"= T2CE existe ; "b"= T2SZ existe ; "c"= T2CS existe) qui représente la disponibilité des données de la tâche 2 dans le système ICCAT-DB. La légende contient 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 (1991 a 2020). Solo se muestran las pesquerías más importantes (que representan ±97,5% de la captura total de Tarea 1). Cada serie de datos de Tarea 1 (DSet= "t1", en t) se visualiza con respecto a su esquema equivalente de disponibilidad de Tarea 2 (DSet= "t2"). En el esquema de colores de Tarea 2, se incluye una concatenación de caracteres ("a"= T2CE existe; "b"= T2SZ existe; "c"= CAS existe) que representa la disponibilidad de datos de Tarea 2 en la base de datos de ICCAT. Véase la leyenda para las definiciones del patrón del esquema de colores.

Table # Fishery

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

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

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																				Rank	%	%cum																
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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					
ALB	ATN	CP	EU-España	BB	t1	8267	10814	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	1	30.4%	30%		
ALB	ATN	CP	EU-España	BB	t2	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	abc	abc	a	2	22.0%	52%		
ALB	ATN	CP	EU-España	TR	t1	8955	7347	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	2				
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	ac	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	3			
ALB	ATN	CP	EU-France	TW	t1	463	2459	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	3	12.5%	65%		
ALB	ATN	CP	EU-France	TW	t2	abc	ab	a	ab	ac	ac	ac	a	ac	ac	ac	ab	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	a	-1	a	b	abc	-1	4					
ALB	ATN	NCC	Chinese Taipei	LL	t1	4318	2209	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	4	11.2%	76%		
ALB	ATN	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	5	4.3%	80%	
ALB	ATN	CP	EU-Ireland	TW	t1							57	319	a	80	634	1100	594	172	258	505	586	1514	1997	785	3595	3551	2231	2485	2390	2337	2492	3102	3213	2938	5				
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	ab	abc	abc	a	abc	6	4.1%	85%	
ALB	ATN	CP	EU-Portugal	BB	t1	700	1622	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	6				
ALB	ATN	CP	EU-Portugal	BB	t2	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	ab	abc	abc	abc	a	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	7	3.5%	88%
ALB	ATN	CP	EU-France	GN	t1	3660	4465	4587	3967	2400	2048	1717	2393	1723	1864	1150	13									2	1							0	0	1	2	7		
ALB	ATN	CP	EU-France	GN	t2	abc	ab	ab	ab	ac	ac	ac	a	abc	ac	ac	a																					8	2.6%	91%
ALB	ATN	CP	EU-Ireland	GN	t1	60	451	1946	2534	918	874	1913	3639	4523	3374	1430																						8		
ALB	ATN	CP	EU-Ireland	GN	t2	-1	-1	ab	-1	-1	c	c	c	bc	bc	ab	ab																					8		
ALB	ATN	CP	Japan	LL	t1	691	466	485	505	386	466	414	446	425	688	1126	711	680	893	1336	781	288	402	288	525	336	400	1745	267	276	297	366	196	334	269	9	1.9%	93%		
ALB	ATN	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	ab	ab	ab	ab	9		
ALB	ATN	CP	St Vincent and Grenadines	LL	t1																																10	1.0%	94%	
ALB	ATN	CP	St Vincent and Grenadines	LL	t2																																	10		
ALB	ATN	CP	USA	RR	t1	251	103	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	11	0.7%	94%		
ALB	ATN	CP	USA	RR	t2	ab	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	ab	ab	ab	ab	ab	11		
ALB	ATN	CP	Venezuela	LL	t1	75	51	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	12	0.7%	95%		
ALB	ATN	CP	Venezuela	LL	t2	b	ab	ab	ab	ab	ab	b	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	12			
ALB	ATN	CP	USA	LL	t1	201	116	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	284	13	0.7%	96%		
ALB	ATN	CP	USA	LL	t2	ab	ab	ab	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	13		
ALB	ATN	CP	Venezuela	PS	t1	221	139	228	278	278	263	26	91	55	191	260	93	211	341	63	162	198	70	84	16	21											14	0.4%	96%	
ALB	ATN	CP	Venezuela	PS	t2	b	-1	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	14			
ALB	ATN	CP	Belize	LL	t1																																15	0.4%	96%	
ALB	ATN	CP	Belize	LL	t2																																	15		
ALB	ATN	CP	EU-España	LL	t1	11	13	8	5	19	35	30	105	86	214																							16	0.3%	97%
ALB	ATN	CP	EU-España	LL	t2	ab	ab	ab	ab	ab	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16		
ALB	ATN	NCO	Vanuatu	LL	t1																																	17	0.3%	97%
ALB	ATN	NCO	Vanuatu	LL	t2																																	17		
ALB	ATN	CP	Panama	LL	t1																																	18	0.2%	97%
ALB	ATN	CP	Panama	LL	t2																																	18		

Table 2. ALB-S stock

		T1 Total																				Rank	%	%cum																
		26016	36564	32814	35301	27554	28426	28022	30595	27656	31387	38795	31746	28005	22545	18882	24453	20283	18867	22248	19225	24126	25272	19424	13705	15201	14383	13825	17098	15616	17971									
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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					
ALB	ATS	NCC	Chinese Taipei	LL	t1	19883	23063	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	1	57.2%	57%		
ALB	ATS	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	abc	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	1		
ALB	ATS	CP	South Africa	BB	t1	3355	6306	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	2	16.8%	74%		
ALB	ATS	CP	South Africa	BB	t2	ab	ab	ab	ab	ab	ab	b	ab	ab	abc	ab	abc	abc	abc	abc	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	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	3	6.2%	80%		
ALB	ATS	CP	Namibia	BB	t2				abc	abc	-1	-1	-1	abc	c	ab	ac	-1	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	ab	abc	abc	abc	abc	abc	3				
ALB	ATS	CP	Brazil	LL	t1	1095	2710	3600	835	723	807	589	3013	1478	3758	6240	2865	1844	285	359	267	222	233	150	207	920	824	778	326	431	494	383	311	412	294	4	5.0%	85%		
ALB	ATS	CP	Brazil	LL	t2	a	ab	ab	ab	a	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	4				
ALB	ATS	CP	Japan	LL	t1	654	583	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	909	5	3.9%	89%		
ALB	ATS	CP	Japan	LL	t2	ab	abc	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	5			
ALB	ATS	CP	EU-España	LL	t1	1	127	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	6	1.4%	91%		
ALB	ATS	CP	EU-España	LL	t2	ab	ab	-1	ab	ab	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	6				
ALB	ATS	CP	South Africa	RR	t1	55	54	36	89	10	209	127	73	58	377	323	82	201	288	324	1696	1028	1855	1529	1268											7	1.3%	92%		
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	7				
ALB	ATS	CP	Brazil	BB	t1	18	13	392	200	12	63	405	394	627	619	363	803	235	197	85	293	156	18	34	198	1190	979	129	60	55	0	1	457	206	8	1.1%	93%			
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	8				
ALB	ATS	CP	Namibia	LL	t1				196			7	7	90	178	450	105	721	250	313	2674	138	102	0	57	80	145	10	41	54	101	8	14	55	1953	9	1.1%	94%		
ALB	ATS	CP	Namibia	LL	t2				a			-1	-1	a	ab	ac	-1	ab	ab	ab	a	ab	ab	ab	ab	a	ab	a	a	a	abc	abc	abc	abc	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										-1	-1	a																			10				
ALB	ATS	CP	EU-Portugal	BB	t1	81	184	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	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	11			
ALB	ATS	CP	EU-España	PS	t1	279	1816	648	682	255	4	66	173	156	7	193					24	9			25	64	28	64	116		3	64				12	0.7%	96%		
ALB	ATS	CP	EU-España	PS	t2	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc				abc	abc			abc	abc	abc	abc	b	ac	ac		abc	a		a	12			
ALB	ATS	CP	EU-France	PS	t1	50	451	565	130	83	191	39	40	13	23	11	18	63	16	443	347	12	50	43	109	50	151	40	41	54	64	79	16	3	10	13	0.4%	97%		
ALB	ATS	CP	EU-France	PS	t2	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	abc	abc	abc	abc	abc	13			
ALB	ATS	NCO	Vanuatu	LL	t1															0	684	1400	96	131	64	104	85	35	83	91					14	0.4%	97%			
ALB	ATS	NCO	Vanuatu	LL	t2															a	a	a	-1	-1	-1	a	ab	ab	a	a					14					

Table3. ALB-M stock

		T1 Total	2379	2202	2138	1349	1587	3150	2541	2698	4856	5577	4870	5608	7898	4874	3529	5965	6520	2970	4024	2124	4628	2047	1503	2400	3554	4319	2780	2863	2484	2675								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum		
ALB	MED	CP	EU-Italy	LL	t1	523	436	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	1	37.7%	38%		
ALB	MED	CP	EU-Italy	LL	t2	-1	-1	b	a	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	2					
ALB	MED	CP	EU-Italy	PS	t1													3079	2100	1046	2589	1249	15	1230		866	10	9	244	4	26	13	17	29	2	11.8%	50%			
ALB	MED	CP	EU-Italy	PS	t2													-1	-1	-1	b	-1	-1	-1		-1	-1	-1	-1	abc	-1	-1	-1	3						
ALB	MED	CP	EU-Italy	GN	t1	668	1025	873	759	1027	1383	1222	1222	2254	916	379	397																		26	11.5%	61%			
ALB	MED	CP	EU-Italy	GN	t2	a	a	ab	a	-1	-1	-1	-1	-1	ab	b	-1	b																		3				
ALB	MED	CP	EU-Greece	UN	t1	500	500	1	1	952	741	1152	1950	1735	1786	1304																				4	10.0%	71%		
ALB	MED	CP	EU-Greece	UN	t2	-1	-1	-1	-1	-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	5	6.8%	78%		
ALB	MED	CP	EU-Cyprus	LL	t2													a	a	a	ab	abc	abc	abc	abc	abc	ab	a	abc	abc	abc	abc	abc	abc	abc	6				
ALB	MED	CP	EU-Greece	LL	t1								35	33	40	36	a	445	427	323	242	257	191	116	125	126	126	165	287	541	1332	608	522	297	158	6	6.1%	84%		
ALB	MED	CP	EU-Greece	LL	t2								-1	-1	-1	-1	a	a	ab	ab	ab	abc	a	a	-1	-1	-1	b	b	a	-1	a	ab	ab	ab	6				
ALB	MED	CP	EU-España	LL	t1	1	6	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	7	3.7%	88%		
ALB	MED	CP	EU-España	LL	t2	ab	ab	ab	ab	ab	ab	ac	ac	ac	ab	ac	ac	-1	-1	a	a	a	a	abc	abc	abc	a	abc	ab	abc	abc	abc	abc	ac	ac	7				
ALB	MED	CP	Turkey	GN	t1																			208	631	402	1396									8	2.5%	90%		
ALB	MED	CP	Turkey	GN	t2																			a	a	ab	ab								8					
ALB	MED	CP	EU-España	BB	t1	499	171	231	81	163	205		33	96	88	77	29				0															9	1.6%	92%		
ALB	MED	CP	EU-España	BB	t2	ac	ac	c	ac	ac	ac		ac	ac	a	-1	ac				-1		a													9				
ALB	MED	CP	Libya	LL	t1																															10	1.5%	93%		
ALB	MED	CP	Libya	LL	t2																																10			
ALB	MED	CP	EU-Greece	PS	t1													478	326	287	141	123															11	1.3%	94%	
ALB	MED	CP	EU-Greece	PS	t2													-1	-1	-1	-1	-1	-1														11			
ALB	MED	CP	Turkey	PS	t1																																11			
ALB	MED	CP	Turkey	PS	t2																																	12	1.2%	96%
ALB	MED	CP	EU-España	TR	t1	48	50	59	129	306	119	202	45	73																							12			
ALB	MED	CP	EU-España	TR	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc							b													13	1.1%	97%
ALB	MED	NCO	NEI (MED)	PS	t1																																13			
ALB	MED	NCO	NEI (MED)	PS	t2																																	14	0.5%	97%
ALB	MED	NCO	NEI (MED)	PS	t2																																	14		

Table 4. BFT-E stock (ATE region)

				T1 Total																																					
				6543	7396	9317	7054	9780	12098	16379	11630	10247	10061	10086	10347	7394	7402	9023	7529	8441	8243	6684	4379	3984	3834	4163	3918	4841	5969	7216	8157	9452	11308								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
BFT	ATE	CP	Japan	LL	t1	2981	3350	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	1	28.0%	28%			
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	1		
BFT	ATE	CP	EU-España	BB	t1	1200	1046	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	2	21.2%	49%			
BFT	ATE	CP	EU-España	BB	t2	abc	abc	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	2			
BFT	ATE	CP	EU-España	TP	t1	1040	1271	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	3	17.1%	66%			
BFT	ATE	CP	EU-España	TP	t2	ac	ab	ab	ac	ab	ab	ac	ac	ac	ab	ac	ac	c	c	abc	b	a	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	c	3				
BFT	ATE	CP	Maroc	TP	t1	482	94	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	4	16.8%	83%			
BFT	ATE	CP	Maroc	TP	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	-1	-1	-1	-1	bc	abc	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	4	3.6%	87%			
BFT	ATE	CP	EU-France	TW	t1	70	441	436	224	400	57	259	247	394	456	599	518	289	423	829	501	180	295	122	28	36	120	118	166	211	228	315	309	358	5	3.6%	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	5					
BFT	ATE	CP	Maroc	PS	t1	46	462	24	213	458	323	828	692	709	660	150	884	490	855	871	179	abc	abc	ab	ab	abc	abc	ab	ab	ab	ab	ab	a	ab	ab	6	3.2%	90%			
BFT	ATE	CP	Maroc	PS	t2	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	-1	-1	-1	-1	-1	-1	6				
BFT	ATE	CP	EU-France	BB	t1	448	372	164	66	181	310	134	282	270	91	105	150	130	47	69	65	128	67	62	83	74	85	74	2	42	99	77	71	88	133	7	1.6%	92%			
BFT	ATE	CP	EU-France	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	ab	ab	b	ab	a	a	ab	a	7					
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	8	1.3%	93%							
BFT	ATE	CP	EU-Portugal	TP	t2	b	abc	ac	ac	ab	ab	ab	ab	b	b	ab	ab	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8				
BFT	ATE	CP	EU-Portugal	LL	t1	98	124	89	143	134	97	246	18	404	398	383	160	33	1	66	72	6	12	5	8	0	0	9	13	112	237	136	9	1.2%	94%						
BFT	ATE	CP	EU-Portugal	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	9				
BFT	ATE	CP	Korea Rep	LL	t1		4	205	92	203		6	1	0	3	1																					10	0.6%	95%		
BFT	ATE	CP	Korea Rep	LL	t2		-1	-1	a	a																												10			
BFT	ATE	NCC	Chinese Taipei	LL	t1	6	20	4	61	226	350	222	144	304	158																						11	0.6%	95%		
BFT	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	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			
BFT	ATE	CP	China PR	LL	t1						85	103	80	68	39																						12	0.6%	96%		
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	12				
BFT	ATE	CP	EU-France	GN	t1	47	74	497	21	144	253	3	72	71	57	68	6																				13	0.5%	96%		
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	13			
BFT	ATE	CP	EU-España	HL	t1							162	28	33	126	61	63	109	87	11	4	10	6	2	21	19	25	21	16								14	0.5%	97%		
BFT	ATE	CP	EU-España	HL	t2						ab	ac	ac	ab	ac	ac	c	c	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	14			
BFT	ATE	CP	EU-Portugal	BB	t1	5	4	2	219	34	80	447	252	5	2	2	7	1	8	6	7	1															15	0.5%	97%		
BFT	ATE	CP	EU-Portugal	BB	t2	-1	a	ab	ab	ab	abc	abc	ab	ab	a	a	a	ab	abc	ab	a	a																15			

Table 5. BFT-E stock (MED region)

		T1 Total		19846	24435	24941	39715	37523	39399	34831	38370	39753	39939	39914	39653	42606	42598	40977	42471	52559	16217	13133	6959	5790	7100	9080	9343	11360	13163	16401	19610	21759	23657								
Species	Stock	Status	FlagName	GearGrp	Dset	1991	1992	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	Rank	%	%cum			
BFT	MED	NCO	NEI (inflated)	PS	t1								9471	16893	16458	15298	15880	18873	18376	14164	18343	28234													1	21.2%	21%				
BFT	MED	NCO	NEI (inflated)	PS	t2								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1													1					
BFT	MED	CP	EU-France	PS	t1	4570	7346	6965	11803	9494	8547	7701	6800	5907	6780	6119	5810	5549	6339	8328	7438	9543	2536	2918	1546	678	678	1940	1944	2299	2763	3320	3930	4374	4714	2	19.5%	41%			
BFT	MED	CP	EU-France	PS	t2	bc	b	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	abc	abc	abc	abc	b	ab	abc	abc	ab	ab	ac		2				
BFT	MED	CP	EU-Italy	PS	t1	2652	3846	4162	4654	3613	7060	7068	3334	1859	2801	3256	3246	3849	3752	3961	4006	4311	1854	2339	2	752	1374	1474	1539	1678	2050	2409	2885	3347	3538	3	11.4%	52%			
BFT	MED	CP	EU-Italy	PS	t2	-1	-1	-1	-1	ac	-1	-1	b	b	b	b	b	b	b	b	b	a	a	abc	abc	abc	-1	abc	-1	b	b	b	b	b	-1	3					
BFT	MED	CP	Turkey	PS	t1	2459	2817	3084	3466	4219	4616	5093	5899	1200	1070	2100	2300	3300	1075	990	806	918	879	665	409	528	536	551	544	1091	1324	1515	1273	1761	2256	4	7.2%	59%			
BFT	MED	CP	Turkey	PS	t2	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	abc	abc	bc	ab	ab	a	a		4					
BFT	MED	CP	Tunisia	PS	t1	1073	975	1997	2523	1617	2147	1992	1662	2263	2134	2432	2510	740	2266	3245	2542	427	2679	1932	1042	852	1017	1057	1057	1248	1461	1755	2101	2378	2651	5	6.6%	66%			
BFT	MED	CP	Tunisia	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc		5			
BFT	MED	CP	EU-España	PS	t1	807	1366	1431	1725	2896	1657	1172	1573	1504	1676	1453	1686	1886	1778	2242	2013	1649	1645	1167	804	877	1034	917	1122	1169	952	1523	2433	2457	2549	6	5.8%	72%			
BFT	MED	CP	EU-España	PS	t2	ab	ab	ab	ab	ab	ab	ab	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	bc	ab	ab	ab	b	ab	ab	ab	ab	b	b	ab	a		6			
BFT	MED	CP	EU-Croatia	PS	t1	1418	1076	1058	1410	1220	1360	1088	889	921	914	890	975	1137	827	1017	1022	817	821	609	370	366	367	380	378	438	436	587	679	751	829	7	3.1%	75%			
BFT	MED	CP	EU-Croatia	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	abc	abc	abc	abc	ab	abc	abc		7				
BFT	MED	CP	Libya	PS	t1	177	300	568	470	495	598	32	230	195	503			200	512	872	730	1140	1200	1267	1047	645		763	933	933	1153	1368	1631	1792	2052	2228	8	3.0%	78%		
BFT	MED	CP	Libya	PS	t2	-1	b	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	a	a		8			
BFT	MED	CP	Algerie	PS	t1	560	773	768	1092				900	1056	778	917	922	640	753	623	850	650	972					69	244	244	370	448	1038	1300	1437	1649	9	2.3%	80%		
BFT	MED	CP	Algerie	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	9				
BFT	MED	CP	EU-Italy	LL	t1	102	78	135	1018	2103	2100	1620	674	515	287	260	395	475	302	310	286	217	216	193	521	670	256	180	115	312	434	411	528	566	563	10	1.9%	82%			
BFT	MED	CP	EU-Italy	LL	t2	a	a	b	ab	ab	a	ab	ab	a	ab	ac	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	11			
BFT	MED	CP	EU-España	LL	t1	277	371	187	245	435	416	871	253	418	493	644	436	583	529	484	668	745	804	590	240	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	41	1.3%	83%	
BFT	MED	CP	EU-España	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	11		
BFT	MED	CP	Libya	LL	t1	164	372	67	802	865	656	925	920	900	1002	1867	331	170	393	318	187	158	51	34														12	1.3%	85%	
BFT	MED	CP	Libya	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	ac	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	12				
BFT	MED	CP	EU-Greece	HL	t1	98	348	339	766	915	784	1127	279	233	597	341	394	245	73			6	7	93	66	135	52	39	a	a	a	a	a	a	a	13	0.9%	86%			
BFT	MED	CP	EU-Greece	HL	t2	-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	a	-1	13			
BFT	MED	CP	Algerie	LL	t1						482	672	175	179	801	503	806	706	501			712	748	754	339												14	0.9%	86%		
BFT	MED	CP	Algerie	LL	t2						-1	-1	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	14			
BFT	MED	CP	Panama	LL	t1	287	484	467	1499	1498	2850	236																										15	0.9%	87%	
BFT	MED	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	15			
BFT	MED	CP	Maroc	HL	t1			373	816	541	455	634	600	650	195	407	570	597	80	187	19							78	120	130	134	138	140	185	265			16	0.9%	88%	
BFT	MED	CP	Maroc	HL	t2			-1	-1	-1	-1	-1	abc	ab	abc	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	16		
BFT	MED	CP	EU-Italy	TP	t1	263	364	249	201	255	491	225	419	308	353	427	364	145	119	69	125	93	149	144	281	165	125	222	231	192		272	300	353	360	17	0.9%	89%			
BFT	MED	CP	EU-Italy	TP	t2	-1	c	b	bc	bc	b	b	b	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	17			
BFT	MED	CP	Japan	LL	t1	85	123	793	536	813	765	185	361	381	136	152	390	316	638	378	556	466	80	18														18	0.9%	90%	
BFT	MED	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	18			
BFT	MED	CP	EU-Malta	LL	t1	105	80	251	572	587	399	393	407	447	376	219	240	255	264	321	263	144	165	263	136	92	137	89	91	49	97	115	127	80	387	19	0.9%	91%			
BFT	MED	CP	EU-Malta	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	ac	ac	ac	ac	ac	ac	ac	bc	bc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	19			
BFT	MED	NCO	NEI (combined)	PS	t1	49	49		773	211		101	1030	1995	109	571	508	610	709																			20	0.8%	92%	
BFT	MED	NCO	NEI (combined)	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	20			
BFT	MED	CP	EU-France	LL	t1			60	580	500	300	246																										21	0.8%	93%	
BFT	MED	CP	EU-France	LL	t2			-1	-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	21		
BFT	MED	CP	EU-Italy	RR	t1	364	336	470	775	766	277	235	9	245	217	229	340	284	284	283	157																		22	0.7%	93%
BFT																																									

Table 6. BFT-W stock

		T1 Total		2929	2296	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	2179								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
BFT	ATW	CP	USA	RR	t1	696	324	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	1	33.8%	34%			
BFT	ATW	CP	USA	RR	t2	abc	abc	abc	abc	abc	bc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1		
BFT	ATW	CP	Japan	LL	t1	688	512	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	2	18.5%	52%			
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	abc	2		
BFT	ATW	CP	Canada	RR	t1	32	30	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	419	3	15.2%	67%			
BFT	ATW	CP	Canada	RR	t2	ab	ab	ab	ab	ab	ab	ab	ab	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3		
BFT	ATW	CP	USA	LL	t1	305	347	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	56	4	9.3%	77%			
BFT	ATW	CP	USA	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	b	ab	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	237	300	295	301	249	245	250	249	248	275	196	208	265	32	178	4	28																5	5.6%	82%	
BFT	ATW	CP	USA	PS	t2	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	b	b	bc	bc																5			
BFT	ATW	CP	Canada	TL	t1	447	403	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	6	4.7%	87%			
BFT	ATW	CP	Canada	TL	t2	ab	ab	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	6		
BFT	ATW	CP	USA	HP	t1	129	105	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	7	3.5%	91%			
BFT	ATW	CP	USA	HP	t2	bc	bc	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	7				
BFT	ATW	CP	Canada	LL	t1	6	9	25	5	4	22	12	32	31	47	20	53	28	43	36	48	abc	58	30	64	89	112	65	67	61	74	85	74	91	143	84	8	2.3%	93%		
BFT	ATW	CP	Canada	LL	t2	a	a	a	ab	ab	ab	ab	ab	abc	abc	bc	abc	abc	abc	abc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	8			
BFT	ATW	CP	USA	HL	t1	341	218	224	228	66	33	17	29	15	3	9	4																					9	1.8%	95%	
BFT	ATW	CP	USA	HL	t2	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	b	b	b	b	c	0																9			
BFT	ATW	CP	Canada	TP	t1		1	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	10	1.3%	96%			
BFT	ATW	CP	Canada	TP	t2	ab	ab	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	10		
BFT	ATW	NCO	NEI (Flag related)	LL	t1												429	270	49																		11	1.1%	97%		
BFT	ATW	NCO	NEI (Flag related)	LL	t2												-1	-1	-1																		11				
BFT	ATW	CP	Canada	HP	t1				33	34	43	32	55	36	38	18	20	13	10	7	14	20	17	24	18	37	30	31	25	11	26	25	17	30	38	43	12	1.1%	98%		
BFT	ATW	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	12		
BFT	ATW	CP	Mexico	LL	t1	9	15	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	13	1.0%	99%			
BFT	ATW	CP	Mexico	LL	t2	-1	-1	-1	ab	b	ab	ab	ab	ab	ab	ab	bc	b	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	13			

Table 9. YFT-W region

			T1 Total	36898	38289	38836	48336	35294	33056	32941	30946	31211	35623	40325	29665	24986	31304	29516	28272	24167	18123	18777	21023	19225	24439	25685	25024	28055	37060	38446	33750	28816	27677											
Species	Stock	Status	FlagName	GearGrp	Dset	1991	1992	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	Rank	%	%cum						
YFT	ATW	CP	Venezuela	PS	t1	11967	9693	12659	19587	6338	10777	11653	9157	6523	7572	13934	7961	4607	3185	2634	4439	2341	2067	1363	2722	2253	3291	3635	2581	1920	2367	3373	1527	760	725	1	19.0%	19%						
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	ab	ab	2					
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	3	10.7%	30%					
YFT	ATW	CP	Brazil	HL	t2			b	-1	-1	-1						-1				-1	-1	-1	a		-1	-1	-1	a	-1	-1	ab	ab	a	ab	4								
YFT	ATW	CP	USA	RR	t1	1418	957	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	5	9.2%	39%						
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	ab	6					
YFT	ATW	CP	USA	LL	t1	4141	5337	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	797	4	7.6%	46%						
YFT	ATW	CP	USA	LL	t2	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	7					
YFT	ATW	CP	Brazil	LL	t1	669	1568	2044	1365	1378	734	849	1285	2930	2754	4954	3323	1941	4115	4987	2543	4093	2326	2906	2989	1954	2558	1141	1112	1206	2579	1118	842	1296	1287	5	7.1%	54%						
YFT	ATW	CP	Brazil	LL	t2	ab	ab	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	8					
YFT	ATW	CP	Venezuela	BB	t1	4190	3616	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	6	6.4%	60%						
YFT	ATW	CP	Venezuela	BB	t2	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	9				
YFT	ATW	CP	Brazil	BB	t1	1169	2660	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	7	4.5%	64%						
YFT	ATW	CP	Brazil	BB	t2	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	a	a	a	a	a	a	a	8					
YFT	ATW	NCC	Chinese Taipei	LL	t1	2009	2974	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	8	3.6%	68%						
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	ab	ab	9			
YFT	ATW	CP	Mexico	LL	t1	433	742	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	9	3.4%	71%						
YFT	ATW	CP	Mexico	LL	t2	-1	-1	ab	abc	ab	ab	ab	a	ab	a	bc	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	10				
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	10	3.1%	75%					
YFT	ATW	CP	St Vincent and Grenadines	LL	t2										-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	11					
YFT	ATW	CP	Japan	LL	t1	1698	1591	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	347	11	2.9%	77%						
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	abc	abc	abc	12		
YFT	ATW	CP	Panama	LL	t1	2249	2297									5	20	28					2804	227	153	119	2134	1126	1630	1995	902	1370	1837	1604	2104	2375	13	2.7%	80%					
YFT	ATW	CP	Panama	LL	t2	-1	-1								-1	a	-1	-1				a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	14				
YFT	ATW	NCO	NEI (Flag related)	LL	t1	2008	2521	1514	1880	1227	2374	2732	2875	1578	2197	765	14	112																						15				
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	-1	-1	16				
YFT	ATW	CP	Venezuela	LL	t1	338	459	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	14	2.3%	85%						
YFT	ATW	CP	Venezuela	LL	t2	-1	a	a	a	a	a	a	ab	ab	ab	a	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	15				
YFT	ATW	CP	Grenada	LL	t1	620	595	858	385	409	523	302	484	430	403	759	593	749	460	492	502	633	756	630	673						1108	1535	1177	1297	708	739	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	-1	-1	16				
YFT	ATW	CP	Trinidad and Tobago	LL	t1	540		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	16	1.7%	89%						
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	-1	17				
YFT	ATW	NCO	Colombia	PS	t1			2404	3418	7172																													18					
YFT	ATW	NCO	Colombia	PS	t2			-1	-1	-1																														19				
YFT	ATW	CP	Ghana	PS	t1					ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac						476	369	506	696	614	1370	2349	2144	1836	18	1.1%	91%					
YFT	ATW	CP	Ghana	PS	t2																	a	a	ab			ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	19				
YFT	ATW	CP	Belize	LL	t1																	143	1164	1160	940	264	42																	

Table 11. SKJ-W stock

		T1 Total																				Rank	%	%cum																			
		33404	30155	33221	29949	21860	27562	31712	29087	27356	29193	31451	21600	24749	27461	28517	26453	25443	22022	25774	25907	32411	33067	35148	27356	20999	22260	23990	23228	20102	18824												
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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								
SKJ	ATW	CP	Brazil	BB	t1	20548	18533	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	1	79.9%	80%					
SKJ	ATW	CP	Brazil	BB	t2	ab	ab	ab	ab	ab	a	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	2							
SKJ	ATW	CP	Venezuela	PS	t1	6186	6893	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	2	9.9%	90%					
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	ab	2						
SKJ	ATW	CP	Brazil	HL	t1						0											5		4	4	159	244	222	369	465	1169	5293	4461	2195	2277	3	2.1%	92%					
SKJ	ATW	CP	Brazil	HL	t2						-1											-1		-1	a		-1	-1	-1	a		-1	-1	ab	ab	a	ab	3					
SKJ	ATW	NCO	Cuba	BB	t1	1596	1638	1017	1268	886	1000	1000	651	651	651				624	545	514	536															4	1.6%	94%				
SKJ	ATW	NCO	Cuba	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b		-1	-1	-1	-1															4						
SKJ	ATW	CP	Venezuela	BB	t1	1952	941	1123	1005	328	224	224	506	282	299	1104	552	950	501	245	201	115	69	441	177	146	124	60	27	39	393	70	41	55	4	5	1.5%	95%					
SKJ	ATW	CP	Venezuela	BB	t2	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	5						
SKJ	ATW	CP	Brazil	PS	t1							743	219	240	473	108	116					1119	239	403	213	223	552	9							406	6	0.6%	96%					
SKJ	ATW	CP	Brazil	PS	t2							-1	-1	a		-1	-1	-1				a	a	a	a	a		-1	-1					a	6								
SKJ	ATW	CP	EU-España	PS	t1	1592	1120	397																												641	223	109	192	124	7	0.5%	96%
SKJ	ATW	CP	EU-España	PS	t2	-1	ac		-1	c		ac	ac	a	a	c	abc	abc		bc	a			a	abc	abc	abc	abc	abc	abc	abc	ac	bc	bc	abc	ab	ab	a	7				
SKJ	ATW	CP	Ghana	PS	t1						ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	c	c	c	ac	c	bc	bc	232	67	157	265	160	410	1234	700	283	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	232	67	157	265	160	410	1234	700	283	8						
SKJ	ATW	CP	Brazil	LL	t1	0	2	9	6	30	9							38		1																		8					
SKJ	ATW	CP	Brazil	LL	t2	-1	b	a		-1	-1	-1						-1	a	a	1																		9	0.4%	97%		
SKJ	ATW	CP	USA	RR	t1	86	49	81	66	21	82		64	86	99	30	49	70	61	74	15	49				3	825	323	41	88	39	170	645	199	260	374	160	9					
SKJ	ATW	CP	USA	RR	t2	ab	ab	ab	ab	ab	b	ab	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	10	0.3%	97%	
SKJ	ATW	NCO	Colombia	UN	t1				789	1583																												10					
SKJ	ATW	NCO	Colombia	UN	t2				-1	-1																													11				
SKJ	ATW	NCO	Sta Lucia	TR	t1												106	132	137	159	120	89	168																	11			
SKJ	ATW	NCO	Sta Lucia	TR	t2																																			12	0.3%	98%	
SKJ	ATW	NCO	Sta Lucia	TR	t2																																			12			

Table 12. SWO-N stock

		T1 Total		14934	15394	16738	15501	17105	15222	13025	12329	11622	11453	10011	9654	11442	12068	12377	11478	12302	11050	12081	11558	12523	13868	12069	10678	10712	10405	10208	8931	10154	10444								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
SWO	ATN	CP	EU-España	LL	t1	6506	6351	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	1	39.0%	39%			
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	1				
SWO	ATN	CP	USA	LL	t1	4399	4124	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	1173	2	22.2%	61%			
SWO	ATN	CP	USA	LL	t2	ab	ab	ab	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	2				
SWO	ATN	CP	Canada	LL	t1	953	1487	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	1292	3	9.9%	71%			
SWO	ATN	CP	Canada	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	bc	abc	abc	abc	abc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3				
SWO	ATN	CP	EU-Portugal	LL	t1	757	497	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	4	9.8%	81%			
SWO	ATN	CP	EU-Portugal	LL	t2	abc	ac	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	a	4				
SWO	ATN	CP	Japan	LL	t1	992	1064	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	419	5	6.1%	87%			
SWO	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	5				
SWO	ATN	CP	Maroc	LL	t1	92	41	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	950	950	936	6	3.6%	90%			
SWO	ATN	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	bc	abc	abc	abc	abc	abc	bc	abc	a	a	abc	bc	bc	abc	abc	abc	abc	abc	6				
SWO	ATN	NCC	Chinese Taipei	LL	t1	577	441	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	172	7	1.9%	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	ab	ab	ab	ab	ab	ab	ab	ab	7				
SWO	ATN	CP	Canada	HP	t1	73	60	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	49	8	1.1%	93%			
SWO	ATN	CP	Canada	HP	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	8				
SWO	ATN	CP	China PR	LL	t1	73	86	104	132	40	337	304	22	102	90	316	56	108	72	85	92	92	73	75	59	96	60	141	135	81	86	92	96	9	0.8%	94%					
SWO	ATN	CP	China PR	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9				
SWO	ATN	CP	Trinidad and Tobago	LL	t1	71	562	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	4	6	8	10	0.6%	95%			
SWO	ATN	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	10			
SWO	ATN	CP	USA	HL	t1	38	0	1	5	9	12	21	23	35	33	125	94	125	129	121	155	105	88	77	76	62	132	205	224	11	11	11	11	11	11	11	11	11			
SWO	ATN	CP	USA	HL	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	ATN	CP	EU-France	TW	t1	13	13	97	164	60	74	138	102	178	91	46	14	12	32	15	13	35	25	63	87	76	74	70	86	12	12	12	12	12	12	12	12	12			
SWO	ATN	CP	EU-France	TW	t2	9	4	2	13	32	322	13	179	60	51	243	64	98	76	9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12	0.4%	96%	
SWO	ATN	CP	Maroc	GN	t1	-1	-1	-1	-1	-1	-1	-1	-1	c	ac	ac	ac	ac	-1	b	b	b	9	1	112	106	184	141	142	76	1	3	59	145	117	111	13	0.3%	96%		
SWO	ATN	CP	Maroc	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	13			
SWO	ATN	CP	Belize	LL	t1																																14	0.3%	97%		
SWO	ATN	CP	Belize	LL	t2																																	14			
SWO	ATN	CP	EU-España	GN	t1	124	316	202	150	223	20																											15	0.3%	97%	
SWO	ATN	CP	EU-España	GN	t2	ab	b	-1	-1	-1	-1																												15		
SWO	ATN	CP	Venezuela	LL	t1	73	101	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	16	0.3%	97%			
SWO	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	16			
SWO	ATN	CP	Venezuela	LL	t2	3	3	19	16	16	19	15																											16		
SWO	ATN	CP	Korea Rep	LL	t1	3	3	19	16	16	19	15																										17	0.3%	97%	
SWO	ATN	CP	Korea Rep	LL	t2	a	ab	a	a	a	a					a																						17			

Table 16. WHM-A stock (AT + MD)

		T1 Total	1743	1557	1681	2202	1880	1679	1513	1945	1786	1535	1078	1012	845	841	768	612	748	711	753	504	530	464	640	436	516	458	431	257	257	168								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum		
WHM	A+M	NCC	Chinese Taipei	LL	t1	803	598	616	1350	907	566	441	506	465	437	152	178	104	172	56	44	54	38	28	20	28	17	7	7	12	12	7	7	5	8	1	25.9%	26%		
WHM	A+M	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	1			
WHM	A+M	CP	Venezuela	LL	t1	154	265	348	206	271	258	168	297	210	166	176	198	158	116	143	169	103	47	109	108	154	106	63	74	104	158	150	94	106	36	2	16.0%	42%		
WHM	A+M	CP	Venezuela	LL	t2	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	a	a	3					
WHM	A+M	CP	Brazil	LL	t1	377	211	301	91	101	70	105	102	158	106	172	342	266	80	243	87	63	41	32	29	74	67	241	98	121	67	47	62	76	46	3	13.1%	55%		
WHM	A+M	CP	Brazil	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	4					
WHM	A+M	NCO	NEI (ETRO)	LL	t1	114	214	237	285	359	526	498	322	180	11	9																				3	9.3%	64%		
WHM	A+M	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	4				
WHM	A+M	CP	EU-España	LL	t1	26	15	26	7	36	141	93	101	119	186	61	6	22	64	58	51	46	32	16	111	5	34	37	93	113	89	108	0			5	5.7%	70%		
WHM	A+M	CP	EU-España	LL	t2	-1	a	b	ab	b	b	ab	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	6				
WHM	A+M	CP	Japan	LL	t1	122	248	82	92	57	112	58	56	40	83	56	16	33	36	34	39	21	34	43	41	31	42	24	6	8	9	10	8	12	9	6	4.9%	75%		
WHM	A+M	CP	Japan	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	a	ab	a	a	a	a	a	6				
WHM	A+M	NCO	NEI (BIL)	LL	t1		1	1						34	78	4	30	134	42	38	180	214	210	2	13	2	1	0	0	4	6	3			3	7	3.4%	78%		
WHM	A+M	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	-1	-1	-1	-1	-1	-1	-1	7				
WHM	A+M	CP	USA	LL	t1	90	88	66	44	100	65	70	32	57	41	17	29	17	27	17	9	8	9	13	8	23	20	10	11	8	3	5	2	2	1	8	3.0%	81%		
WHM	A+M	CP	USA	LL	t2	a	a	a	a	a	a	a	a	ab	a	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8			
WHM	A+M	CP	S Tomé e Príncipe	TR	t1	26	24	17	21	21	30	45	40	36	37	37	37	21	33	29	35	36	37	38	39	40	41	42	17	15	13					9	2.9%	84%		
WHM	A+M	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	9			
WHM	A+M	CP	Korea Rep	LL	t1	57	10	8	43	23	59	23	35	39	0			11	40	7			113	96	78	45	45									10	2.5%	87%		
WHM	A+M	CP	Korea Rep	LL	t2	a	a	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	10				
WHM	A+M	CP	Barbados	LL	t1	17	24	29	26	43	15	41	33	25	25	24	15	15	18	16	33	22	24	26	3	2	4	5	5	10	12	14	15	10	14	11	1.9%	89%		
WHM	A+M	CP	Barbados	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	11			
WHM	A+M	CP	Mexico	LL	t1		1	7	11	3	1	3	6	11	13	16	15	28	25	16	14	14	19	20	28	36	31	20	26	20	12	16	9	10	12	1.5%	90%			
WHM	A+M	CP	Mexico	LL	t2	ab	ab	b	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		
WHM	A+M	CP	Trinidad and Tobago	LL	t1	3	6	1	11	18	8	32	10	13	4	2	5	12	6	6	5	12	10	11	15	14	39	33	38	32	20					13	1.2%	91%		
WHM	A+M	CP	Trinidad and Tobago	LL	t2	-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	a	a	13			
WHM	A+M	CP	Venezuela	GN	t1	4	3	4	12	5	2	3	13	18	12	7	17	10	19	13	21	28	16	19	8	6	15	12	15	14	14	14	14				14	1.1%	92%	
WHM	A+M	CP	Venezuela	GN	t2	ab	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	-1	-1	-1	-1	14			
WHM	A+M	CP	EU-Portugal	LL	t1								1	1					1	5	19	30	22	2	35	40	11	18	22	10	8	7	11	12		15	0.9%	93%		
WHM	A+M	CP	EU-Portugal	LL	t2								-1	-1					-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	15				
WHM	A+M	NCO	Mixed flags (FR+ES)	PS	t1	11	10	12	11	9	7	7	9	8	12	13	12	13	13	11	10	9	10	12	12	37										16	0.8%	94%		
WHM	A+M	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	-1	-1	-1	-1	-1	-1	-1	-1	16			
WHM	A+M	CP	Grenada	LL	t1									1	15	8	14	33	10	12	11	17	14													17	0.8%	95%		
WHM	A+M	CP	Grenada	LL	t2									-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	17				
WHM	A+M	CP	China PR	LL	t1			9	11	9	11	15	30	2	20	23	8	6	9	6	10	5	9	8	3	4	4	2								18	0.7%	96%		
WHM	A+M	CP	China PR	LL	t2			-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	18			
WHM	A+M	CP	Brazil	UN	t1								115							0	0	4	8	15	21	6	0	1								19	0.6%	96%		
WHM	A+M	CP	Brazil	UN	t2								-1							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19			
WHM	A+M	CP	Uruguay	LL	t1	1	3	2	3	0	1	24	22	16	21	20	1	9	2	5	9	3	6	5	5											20	0.5%	97%		
WHM	A+M	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20			
WHM	A+M	CP	USA	RR	t1	13	11	19	11	7	9	8	5	5	1	3	6	1	1	1	1	1	0	2	2	2	2	2	1	4	2	1	2	2	2					

Table 18. SAI-W stock

			T1 Total	1226	1463	1414	1121	1214	1143	1257	1615	1580	1996	1797	2060	1498	1727	1839	1939	1561	1733	1624	1229	1335	1275	985	859	917	1351	1248	1521	1363	1153						
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum	
SAI	ATW	CP	Venezuela	LL	t1	129	170	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	1	20.6%	21%	
SAI	ATW	CP	Venezuela	LL	t2	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	2	11.8%	32%		
SAI	ATW	CP	Grenada	LL	t1	316	310	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	2	11.8%	44%		
SAI	ATW	CP	Grenada	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	11.8%	44%	
SAI	ATW	CP	EU-España	LL	t1	8	13	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	3	11.8%	44%	
SAI	ATW	CP	EU-España	LL	t2	-1	-1	b	b	-1	b	-1	b	b	b	b	b	-1	b	b	-1	b	b	b	-1	-1	-1	-1	b	b	b	b	b	b	-1	4	10.4%	54%	
SAI	ATW	CP	Brazil	LL	t1	65	285	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	4	10.4%	54%	
SAI	ATW	CP	Brazil	LL	t2	a	ab	a	a	a	a	a	a	a	ab	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	4	5	6.1%	61%	
SAI	ATW	CP	USA	RR	t1	341	290	201	179	342	230	349	267	163	76	58	103	0	0	0	0	0	0	3	3	0	0	7	3	2	2	3	3	3	1	5	6.1%	61%	
SAI	ATW	CP	USA	RR	t2	ab	ab	ab	ab	b	ab	b	ab	ab	b	ab	-1	b	b	b	b	b	b	b	ab	b	b	b	b	b	b	b	b	b	b	6	5.5%	66%	
SAI	ATW	CP	Venezuela	GN	t1	41	25	60	65	41	88	114	182	140	71	64	88	93	122	131	135	186	113	96	89	92	139	79	98						6	5.5%	66%		
SAI	ATW	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	b	b	b	b	b	b	ab	ab	ab	ab	a						7	5.1%	71%		
SAI	ATW	CP	Brazil	UN	t1		33	21	41	143	224	67	78	78	67			222	238	326	0	58	60	193	360	1	0	0					0			7	5.1%	71%	
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							8	3.6%	75%		
SAI	ATW	CP	Panama	LL	t1																														8	3.6%	75%		
SAI	ATW	CP	Panama	LL	t2																															8	3.6%	75%	
SAI	ATW	NCO	Dominican Republic	LL	t1							101	89	27	67	81	260	91	144	165	133	147															9	3.0%	78%
SAI	ATW	NCO	Dominican Republic	LL	t2							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1														9	3.0%	78%	
SAI	ATW	NCO	Cuba	LL	t1	83	70	42	46	37	37	40	28	196	208	68	32	18	50	72	47	56															10	2.6%	80%
SAI	ATW	NCO	Cuba	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1														10	2.6%	80%
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	11	2.6%	83%	
SAI	ATW	CP	Mexico	LL	t2			a	a	a	a	a	a	a	a	a	a	a	a	a	a	abc	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	11	2.6%	83%
SAI	ATW	CP	Barbados	LL	t1	29	42	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	12	2.5%	85%	
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	a	a	a	a	a	a	a	a	a	12	2.5%	85%	
SAI	ATW	NCO	NEI (BIL)	LL	t1																															13	2.3%	88%	
SAI	ATW	NCO	NEI (BIL)	LL	t2																															13	2.3%	88%	
SAI	ATW	CP	USA	LL	t1	67	44	65	29	30	69	57	27	72	45	11	7	5	7	3	5	7	9	10	4	10	4	18	11	11	6	7	6	6	5	3	14	1.5%	89%
SAI	ATW	CP	USA	LL	t2	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	ab	4	ab	ab	ab	ab	ab	ab	ab	ab	b	14	1.5%	89%
SAI	ATW	CP	Trinidad and Tobago	LL	t1	1	2	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	15	1.5%	91%	
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	-1	a	a	a	a	a	a	a	a	a	a	a	a	-1	15	1.5%	91%
SAI	ATW	NCC	Chinese Taipei	LL	t1	37	17	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	16	1.5%	92%	
SAI	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	16	1.5%	92%
SAI	ATW	CP	St Vincent and Grenadines	LL	t1																																17	1.3%	94%
SAI	ATW	CP	St Vincent and Grenadines	LL	t2																																17	1.3%	94%
SAI	ATW	CP	EU-Portugal	LL	t1																																18	1.0%	95%
SAI	ATW	CP	EU-Portugal	LL	t2																																18	1.0%	95%
SAI	ATW	NCO	NEI (ETRO)	LL	t1																																18	1.0%	95%
SAI	ATW	NCO	NEI (ETRO)	LL	t2																																19	0.9%	96%
SAI	ATW	NCO	Dominican Republic	UN	t1	31	98	50	90	40	40																										19	0.9%	96%
SAI	ATW	NCO	Dominican Republic	UN	t2	-1	-1	-1	-1	-1	-1																										20	0.8%	96%
SAI	ATW	CP	Japan	LL	t1	27	0	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	5	21	0.8%	97%	
SAI	ATW	CP	Japan	LL	t2	-1	b	-1	a	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	21	0.8%	97%	

Table 19. SPF-E stock

		T1 Total	131	255	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	61	202								
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum		
SPF	ATE	NCC	Chinese Taipei	LL	t1	6	135	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	1	34.5%	34%		
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	1			
SPF	ATE	CP	Japan	LL	t1	10	27	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	11	10	2	25.6%	60%		
SPF	ATE	CP	Japan	LL	t2	-1	b	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	2					
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	107	92	112	98	78	59	68	86	81	60																					3	23.2%	83%		
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																				3				
SPF	ATE	CP	EU-España	LL	t1	0	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	4	11.6%	95%	
SPF	ATE	CP	EU-España	LL	t2	-1	b		-1	b	b	b	b	b	b	b	b				b	b		-1	b	b	-1	-1	b	b	-1	-1	-1	b	-1	-1	4			
SPF	ATE	CP	EU-Portugal	LL	t1															a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	5	4.1%	99%		
SPF	ATE	CP	EU-Portugal	LL	t2																24	8	2	6	25	9	20										5			
SPF	ATE	CP	Korea Rep	LL	t1	8	1	1	1	1	3	1																									6	0.4%	99%	
SPF	ATE	CP	Korea Rep	LL	t2	-1	-1	-1	-1	-1	-1	a																									6			
SPF	ATE	CP	St Vincent and Grenadines	LL	t1																0																7	0.3%	100%	
SPF	ATE	CP	St Vincent and Grenadines	LL	t2																																	7		
SPF	ATE	CP	Senegal	LL	t1																																	8	0.2%	100%
SPF	ATE	CP	Senegal	LL	t2																																	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																																	9		
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	83	19	120	122	33	37	7	74	50	97	107	95	79	137	101	256	102	106	62	117	80	58	352	36	62	62	322	138	58	69							
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum	
SPF	ATW	NCC	Chinese Taipei	LL	t1	36	16	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	1	19.6%	20%	
SPF	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-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	1			
SPF	ATW	CP	EU-España	LL	t1	0	5		1	0	0	0	22	47	20	5	21			5	14		2	5		10	10	9	11	19	14	259	19	17	52	2	18.6%	38%	
SPF	ATW	CP	EU-España	LL	t2	-1	-1	b	-1	b	b	-1	b	b	b	b	b			b	0	5	4	-1	b	b	-1	-1	b	b	-1	-1	-1	-1	2				
SPF	ATW	CP	Brazil	LL	t1											27	56	39	3		0	5	4			24	4	310		6				3	15.8%	54%			
SPF	ATW	CP	Brazil	LL	t2											-1	-1	-1	a	a	a	a	ab	a	ab	a	a	a		-1					3				
SPF	ATW	CP	Japan	LL	t1	46	1	1	2	3	4	1	8	11																						4	15.8%	70%	
SPF	ATW	CP	Japan	LL	t2	-1	b	-1	a	a	a	a	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	a	a						4			
SPF	ATW	CP	St Vincent and Grenadines	LL	t1													82																			5	14.7%	84%
SPF	ATW	CP	St Vincent and Grenadines	LL	t2																																5		
SPF	ATW	CP	Venezuela	LL	t1			1	0		1	0	1	0			4	0	3	3	17	5	15	3	14	24	11	24	11	13	32	35	6	10	4	3	6	7.9%	92%
SPF	ATW	CP	Venezuela	LL	t2	b	ab	ab	b	a	ab	ab	ab			-1	-1	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																26	15	44	10	10	0	1						19	18		7	4.7%	97%	
SPF	ATW	CP	EU-Portugal	LL	t2																															7			
SPF	ATW	CP	Korea Rep	LL	t1	0	1	2	4	4	10	4																									8	0.8%	98%
SPF	ATW	CP	Korea Rep	LL	t2	-1	-1	-1	-1	-1	-1	-1																									8		
SPF	ATW	CP	Brazil	HL	t1																																9	0.7%	99%
SPF	ATW	CP	Brazil	HL	t2																																9		
SPF	ATW	CP	Belize	LL	t1																																10	0.5%	99%
SPF	ATW	CP	Belize	LL	t2																																10		
SPF	ATW	CP	Mexico	LL	t1																																10		
SPF	ATW	CP	Mexico	LL	t2					a																											11	0.3%	99%

Table 21. BSH-N region

				T1 Total	4306	3561	9591	8592	8468	7396	29285	26764	26172	28174	21128	20066	23006	21741	22359	23218	26927	30725	35199	37239	38092	36783	37087	36579	39627	44068	39664	33995	27197	20827							
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
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	1	68.9%	69%			
BSH	ATN	CP	EU-España	LL	t2							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	b	b	b	b	b	1					
BSH	ATN	CP	EU-Portugal	LL	t1	2257	1583	5726	4669	4722	4843	2630	2440	2227	2081	2110	2265	5642	1751	4026	4337	5283	6164	6248	8256	6508	3725	3694	2994	3808	7679	5610	5162	4475	3806	2	16.5%	85%			
BSH	ATN	CP	EU-Portugal	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	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	2328	3	6.5%	92%
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	3			
BSH	ATN	CP	Canada	LL	t1	774	1277	1702	1260	1494	528	831	612	547	624	581	836	346	965	1134	977	843	0	0	0	0	0	1	0	1	5	16	32	71	4	193	4	2.0%	94%		
BSH	ATN	CP	Canada	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	4			
BSH	ATN	CP	USA	LL	t1	772	186	1146	582	623	608	181	173	96	138	106	68	56	70	68	47	54	138	107	178	238	127	117	147	82	43	42	11	20	24	5	0.8%	95%			
BSH	ATN	CP	USA	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5			
BSH	ATN	CP	Belize	LL	t1																																	6	0.7%	95%	
BSH	ATN	CP	Belize	LL	t2																																	6			
BSH	ATN	CP	Maroc	PS	t1																																	7	0.7%	96%	
BSH	ATN	CP	Maroc	PS	t2																																	7			
BSH	ATN	NCC	Chinese Taipei	LL	t1				487	167	132	203	246	384	165	59			171	206	240	588	292	110	73	99	148	107	123	83	238	287	76	153	38	74	8	0.6%	97%		
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	8		
BSH	ATN	CP	Panama	LL	t1										9																							9	0.6%	97%	
BSH	ATN	CP	Panama	LL	t2																																	9			
BSH	ATN	CP	EU-France	UN	t1	187	276	322	350	266	278	213	163	399	395	207	221	57	95	120	99	50	46	30														10	0.5%	98%	
BSH	ATN	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	10		
BSH	ATN	CP	Maroc	LL	t1																																	11	0.5%	98%	
BSH	ATN	CP	Maroc	LL	t2																																	11			
BSH	ATN	CP	USA	RR	t1	308	214	672	21	19	277	210	252	217	291	39																						12	0.4%	99%	
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	12			
BSH	ATN	CP	Korea Rep	LL	t1																																	13	0.2%	99%	
BSH	ATN	CP	Korea Rep	LL	t2																																	13			
BSH	ATN	CP	China PR	LL	t1																																	14	0.2%	99%	
BSH	ATN	CP	China PR	LL	t2																																	14			

Table 22. BSH-5 region

				T1 Total																				Rank	%	%cum														
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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					
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	1	45.7%	46%		
BSH	ATS	CP	EU-España	LL	t2							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	-1	b	b	b	b	b	-1	b	b	-1	-1	1				
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	2	17.4%	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	2				
BSH	ATS	CP	Brazil	LL	t1					743	1103		179	1683	2173	1966	2160	1568	2520	2533	2309	1625	1268	1500	1913	1607	2013	2551	2420	1334	2177	3010	3784	3435	3	8.9%	72%			
BSH	ATS	CP	Brazil	LL	t2					-1	a		-1	ab	a	a	a	a	a	ab	a	ab	a	ab	ab	ab	a	a	a	a	a	a	ab	ab	ab	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	3950	4	8.5%	80%			
BSH	ATS	CP	Namibia	LL	t2								-1				a	-1	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	ab	ab	ab	4					
BSH	ATS	NCC	Chinese Taipei	LL	t1					1232	1767	1952	1737	1559	1496	1353	665		521	800	866	1805	2177	1843	1356	1625	2142	2074	2257	2240	1854	1992	2053	1372	861	1338	5	7.7%	88%	
BSH	ATS	NCC	Chinese Taipei	LL	t2					-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	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	2508	2102	6	6.8%	95%	
BSH	ATS	CP	Japan	LL	t2					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	a	a	a	a	a	a	a	a	6				
BSH	ATS	CP	Uruguay	LL	t1					8	106.86	10.136	84	57	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130				7	1.1%	96%		
BSH	ATS	CP	Uruguay	LL	t2					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7			
BSH	ATS	CP	South Africa	LL	t1								23	21			82	63	232	128	154	90	82	126	119	112	317	158	179	525	402	356	418	403	292	52	8	0.8%	97%	
BSH	ATS	CP	South Africa	LL	t2								-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	8				
BSH	ATS	CP	Ghana	GN	t1																															9	0.8%	98%		
BSH	ATS	CP	Ghana	GN	t2																																9			
BSH	ATS	CP	China PR	LL	t1												565	316	452					585	40	109	41	131	84	64	48	20	30	283	127	52	45	10	0.6%	98%
BSH	ATS	CP	China PR	LL	t2								-1	-1	-1								a	a	a	a	a	a	a	a	a	a	a	a	a	10				
BSH	ATS	CP	Belize	LL	t1																																11	0.5%	99%	
BSH	ATS	CP	Belize	LL	t2																																11			
BSH	ATS	CP	Korea Rep	LL	t1																																12	0.3%	99%	
BSH	ATS	CP	Korea Rep	LL	t2																																12			
BSH	ATS	CP	Côte d'Ivoire	LL	t1																																13	0.2%	99%	
BSH	ATS	CP	Côte d'Ivoire	LL	t2																																13			

Table 23. POR-NE region

				T1 Total	467	637	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											
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum							
POR	ANE	CP	EU-France	UN	t1	300	496	633	820	565	267	315	219	240	410	361	461	303	194	276	194	83	83	153												1	63.3%	63%							
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												2	10.1%	73%						
POR	ANE	CP	EU-Denmark	UN	t1	85	80	91	93	86	72	69	85	107	73	76	42	21	20	4	3	2	1		0												2								
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		a												2							
POR	ANE	CP	EU-France	LL	t1																185			271	184	46												3	6.8%	80%					
POR	ANE	CP	EU-France	LL	t2																																	3							
POR	ANE	CP	EU-España	LL	t1	47	15	21	52	19	41	25	25	18	13	24	54	27	11	14	34		8	41	77													4	5.6%	86%					
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														4						
POR	ANE	CP	Norway	UN	t1	32	41	24	24	26	28	17	27	32	22			19					1	8	9	6	12	11	17										5	3.5%	89%				
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	0	1	1	1	1	1	1	1	0	7	4	10	101	50	14		6	0	3	17	7	0	0										6	2.3%	92%				
POR	ANE	CP	EU-Portugal	LL	t2	-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	a	a	a	a			6					
POR	ANE	NCO	Faroe Islands	LL	t1				48	44	8	9	7	10	13	8	10	14	5	19	21																			7	2.1%	94%			
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			7					
POR	ANE	CP	Great Britain	UN	t1					0			1	6	8	12	10	25	24																					8	0.8%	95%			
POR	ANE	CP	Great Britain	UN	t2					-1																														8					
POR	ANE	CP	Norway	GN	t1																	6	3																	9	0.7%	95%			
POR	ANE	CP	Norway	GN	t2																																				9				
POR	ANE	CP	EU-Ireland	UN	t1																																				10	0.7%	96%		
POR	ANE	CP	EU-Ireland	UN	t2																																				10				
POR	ANE	CP	EU-France	TW	t1																																					11	0.7%	97%	
POR	ANE	CP	EU-France	TW	t2																																					11			
POR	ANE	CP	Great Britain	GN	t1																																						12	0.5%	97%
POR	ANE	CP	Great Britain	GN	t2																																						12		

Table 25. POR-SE region

		T1 Total	0	0	0	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				
Species	Stock	Status	FlagName	GearGrp	DSet	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	Rank	%	%cum				
POR	ASE	CP	Japan	LL	T1		3	13													5	29	25	6	7	25	15	13	3	1	0		1	63.3%	63%		
POR	ASE	CP	Japan	LL	T2		-1	-1														-1	-1	a	a	a	a	a	a	a	a		1				
POR	ASE	CP	EU-España	LL	T1		2	1	2		1	1	9	3								0	1	11									2	13.6%	77%		
POR	ASE	CP	EU-España	LL	T2		-1	-1	-1		-1	-1	-1	-1									-1	-1	-1								2				
POR	ASE	CP	Ghana	PS	T1																												3	10.8%	88%		
POR	ASE	CP	Ghana	PS	T2																												3				
POR	ASE	CP	Korea Rep	LL	T1																												4	7.7%	95%		
POR	ASE	CP	Korea Rep	LL	T2																												4				
POR	ASE	NCO	Benin	UN	T1		4	0	4																								5	3.4%	99%		
POR	ASE	NCO	Benin	UN	T2		-1	-1	-1																								5				
POR	ASE	NCC	Chinese Taipei	LL	T1																													6	0.6%	99%	
POR	ASE	NCC	Chinese Taipei	LL	T2																													6			
POR	ASE	CP	EU-Portugal	LL	T1																													7	0.4%	100%	
POR	ASE	CP	EU-Portugal	LL	T2																													7			
POR	ASE	CP	Guinea Ecuatorial	HL	T1																													8	0.2%	100%	
POR	ASE	CP	Guinea Ecuatorial	HL	T2																													8			
POR	ASE	CP	EU-España	PS	T1																														9	0.0%	100%
POR	ASE	CP	EU-España	PS	T2																														9		
POR	ASE	CP	Curaçao	PS	T1																														10	0.0%	100%
POR	ASE	CP	Curaçao	PS	T2																														10		
POR	ASE	CP	Guatemala	PS	T1																														11	0.0%	100%
POR	ASE	CP	Guatemala	PS	T2																														11		
POR	ASE	CP	El Salvador	PS	T1																														12	0.0%	100%
POR	ASE	CP	El Salvador	PS	T2																														12		
POR	ASE	CP	Panama	PS	T1																														13	0.0%	100%
POR	ASE	CP	Panama	PS	T2																														13		

Table 26. POR-SW region

			T1 Total	256	385	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					
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
POR	ASW	NCC	Chinese Taipei	LL	t1	73	192	85	146	57	168	65	170	73	84	29	93	95	39	43	47	99		2												1	43.6%	44%			
POR	ASW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		a												1				
POR	ASW	CP	Brazil	LL	t1	81	128	60	32	49	33	36	38	58	60	67	74	49	37	52	32	23																2	25.5%	69%	
POR	ASW	CP	Brazil	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a		-1	-1	-1	-1														2				
POR	ASW	CP	Uruguay	LL	t1	18	24	7	5	3	19	5	14	3	4	20	8	34	8	28	34	3	40	14	6													3	9.0%	78%	
POR	ASW	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	b	a														3			
POR	ASW	CP	EU-España	LL	t1	13	12	32	35	43	28	25	1	12	7	13	1	0	0	0	0	3	5	3	2													4	6.6%	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	-1															4			
POR	ASW	NCO	NEI (Flag related)	LL	t1	8	14	10	22	8	46	23	37	11	15	3	1																					5	5.5%	90%	
POR	ASW	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																					5			
POR	ASW	CP	Japan	LL	t1	48	12	13	14	6	6	1	1	1	1	7	4	3	2	11	3	3	4	12	10	2													6	4.5%	95%
POR	ASW	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																6		
POR	ASW	CP	Panama	LL	t1	14	2	6	24	4	21	3			0	1																							7	2.1%	97%
POR	ASW	CP	Panama	LL	t2	-1	-1	-1	-1	-1	-1	-1			-1	-1																							7		
POR	ASW	CP	China PR	LL	t1			0	1	0						13	36	4																					8	2.0%	99%
POR	ASW	CP	China PR	LL	t2			-1	-1	-1						-1	-1	-1																					8		
POR	ASW	CP	Korea Rep	LL	t1	3	1	1	2	1	6	1																											9	0.5%	99%
POR	ASW	CP	Korea Rep	LL	t2	-1	-1	-1	-1	-1	-1	-1																											9		

Table 27. SMA-N region

		T1 Total																																							
		2296	3233	4114	3659	5306	5306	3534	3845	2858	2587	2677	3426	3987	4000	3695	3574	4158	3800	4541	4782	3720	4437	3603	3467	3281	3356	3119	2373	1882	1709										
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum			
SMA	ATN	CP	EU-España	LL	t1	1390	2145	1964	2164	2209	3294	2416	2223	2051	1561	1684	2047	2068	2088	1751	1918	1814	1895	2216	2091	1667	2308	1509	1481	1362	1574	1784	1165	866	870	1	52.3%	52%			
SMA	ATN	CP	EU-España	LL	t2	-1	-1	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	1				
SMA	ATN	CP	EU-Portugal	LL	t1	314	220	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	339	2	17.9%	70%			
SMA	ATN	CP	EU-Portugal	LL	t2	-1	-1	-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	a	2				
SMA	ATN	CP	USA	RR	t1	210	250	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	3	7.7%	78%			
SMA	ATN	CP	USA	RR	t2	-1	-1	-1	-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	3				
SMA	ATN	CP	Maroc	LL	t1													147	169	215	220	151	283	476	636	390	380	616	580	807	1000	320	423	357	382	4	7.1%	85%			
SMA	ATN	CP	Maroc	LL	t2													-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4				
SMA	ATN	CP	Japan	LL	t1	157	318	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	29	5	5.8%	91%		
SMA	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5			
SMA	ATN	CP	USA	LL	t1	176	273	249	269	259	166	179	146	124	123	135	123	105	140	138	95	167	149	171	168	160	152	140	155	100	108	112	41	32	26	6	4.1%	95%			
SMA	ATN	CP	USA	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	b	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	7	1.5%	96%			
SMA	ATN	CP	Canada	LL	t2					-1	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	18				
SMA	ATN	NCC	Chinese Taipei	LL	t1	39	16	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	3	1	0	8	0.8%	97%			
SMA	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8			
SMA	ATN	CP	Maroc	PS	t1																					30	26	51	44	140	50	130	172	144			9	0.7%	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																																	9			
SMA	ATN	CP	Belize	LL	t2																					23	28	69	114	99	1	1	1	9	12	2			10	0.3%	98%
																										ab	ab	ab	ab	a	a	-1	a	a	a	ab			10		

Table 28. SMA-S region

		T1 Total		1062	1183	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	2855						
Species	Stock	Status	FlagName	GearGrp	DSet	1991	1992	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	Rank	%	%cum	
SMA	ATS	CP	EU-España	LL	t1	327	421	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	1	38.1%	38%	
SMA	ATS	CP	EU-España	LL	t2	-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	b	-1	-1	1		
SMA	ATS	CP	Namibia	LL	t1										1		459	375	509	1415	1243	1002	295	23	306	328	554	9	950	661	799	194	980		929	2	14.9%	53%	
SMA	ATS	CP	Namibia	LL	t2										-1		a	-1	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	a	2			
SMA	ATS	CP	Japan	LL	t1	506	460	701	1369	1617	514	244	267	151	264	56	133	118	398					72	115	108	103	132	291	114	182	109	77	96	93	55	3	11.3%	64%
SMA	ATS	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3		
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	4	9.4%	74%	
SMA	ATS	CP	EU-Portugal	LL	t2					-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	4		
SMA	ATS	CP	Brazil	LL	t1	79	158	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	5	9.0%	83%	
SMA	ATS	CP	Brazil	LL	t2	-1	-1	-1	-1	-1	-1	a	-1	-1	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	5		
SMA	ATS	CP	South Africa	LL	t1	64	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	6	6.0%	89%		
SMA	ATS	CP	South Africa	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6		
SMA	ATS	NCC	Chinese Taipei	LL	t1	80	44	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	7	5.0%	94%	
SMA	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7		
SMA	ATS	CP	China PR	LL	t1			34	45	23	27	19	74	126	305	22	208	260	68	45	70			6	24	32	29	8	9	9	5	3	1		8	2.1%	96%		
SMA	ATS	CP	China PR	LL	t2			-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	8		
SMA	ATS	CP	Uruguay	LL	t1	13	20	28	12	17	26	20	23	21	35	40	38	188	249	146	68	36	41	106	23	76	36	1								9	1.7%	98%	
SMA	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a	-1	ab	ab	ab	ab							9		
SMA	ATS	CP	Côte d'Ivoire	GN	t1	9	13	10	20	13	15	23	10	10	9	15	15	30	15	14	16	25						19	33	19	11	13	161	4	8	7	10	0.7%	98%
SMA	ATS	CP	Côte d'Ivoire	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a				a	a	ab	a	a	b	-1	a	-1	-1	10		

Appendix 2 - Table 1. Summary of FAD information received in FAD Management Plans and ST08 forms for 2020 (some datasets could require revisions).

Appendice 2 - Tableau 2. Résumé des informations sur les DCP reçues dans les plans de gestion des DCP et les formulaires ST08 au titre de 2020 (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 2020 (algunos conjuntos de datos requieren revisión).

Tropical Tunas Fishing Management Plan (preliminary)	FAD Management Plan	Reported 2020 FAD Data on ST08	Notes
Belize	Belize	Bolivia	No FAD fisheries
Brazil		Ghana	partial information
China		Mexico	No FAD fisheries
Curacao	Curacao	Great Britain	No FAD fisheries
El Salvador	El Salvador	UK-OT Bermuda	No FAD deployed 2020
EU	EU	UK-OT St Helena	No FAD deployed 2020
Ghana	Ghana	UK-OT Turks & Caicos	No FAD deployed 2020
Guatemala	Guatemala	UK-OT British Virgin Islands	No FAD deployed 2020
Japan		Belize	
Korea		Curacao	
Maroc	Maroc	EU/France	
Senegal	Senegal	Guatemala	
Chinese-Taipei		Panama	
Russia		El Salvador	
San Vincent & Grenadines		Cape Verde	partial information
United States		Maroc	
UK Overseas Territories	UK Overseas Territories		
Canada			

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.

Flag Provider	Historic Data Years	Format reported	Notes
EU.Spain	2016, 2017	ST08 e form	
Panama	2016, 2017	ST08 eform vr2017	No Vessel info
Panama	2019,	ST08 eform vr2020a	
Guatemala	2019,	ST08 eform vr2020a	
El Salvador	2015, 2016, 2017	pdf letter July 26, 2021	No details by 1x1, month, or vessel
Belize	*	email July 29, 2021	Indicate information in Annual Reports

Appendix 3. Summary of Domestic Observer Program information. NA fields indicate where CPCs provided no information

Appendice 3. Résumé de l'information sur les Programmes Nationaux d'Observateurs. Les champs avec NA indiquent où les CPC n'ont fourni aucune information

Apéndice 3. Resumen de la información sobre los Programas nacionales de observadores. Los campos con NA indican dónde las CPC no proporcionaron información

CPC	Start year	Fisheries monitored (1 or more)	Coverage	Percent Coverage	Coverage based on
Algerie	2019		LL, TW	25	No. of hooks, No. of vessels
Belize	2013		PS	100	No. of Vessels
Brazil	NA		NA	5	No. of hooks
Canada	2018		LL, RR	8, 0.6	No. of sets (LL)
Capo Verde	2005		PS	33	No. Trips
China	2009		LL	6	No. of hooks
Chinese Taipei	2018		LL	11	Days at sea
Costa Rica	NA		NA	NA	NA
Curaçao	2018		PS	100	No. Trips
Egypt	NA		NA	NA	NA
El Salvador	2005		PS	100	No. of vessels
EU-Portugal	2011		LL, TP	10	No. of sets
EU-Cyprus	2006		LL	16	No. of vessels
EU-France	2018		PS	87	Other
EU-Spain	NA		PS, LL	15,1	Other
EU-Greece	NA		LL	3	No. Trips
EU-Italy	2016		LL, TP	-	No. of vessels
EU-Malta	2008		LL	0.2	No. Of Vessels
EU-Portugal Madeira	2018		BB, HL	11	No. Of Vessels
FR-St Pierre et Miquelon	NA		NA	NA	NA
Guatemala	2005		PS	100	Other
Ghana	2006		PS, BB	67	No. of vessels
Japan	1992		LL	6	No. of operations
Korea	2002		LL	22	Other
Maroc	2018		LL,TP	51, NA	No. Of Vessels
Mexico	2018		LL	100	No. of trips
Norway	2018		LL, PS	18	No. Trips
Panama	NA		PS	NA	NA
Russian Federation	2018		TW	6	No. Vessels
South Africa	NA		LL	10	No. of hooks
Tunisia	2012		PS,LL	78	No. of vessels
Turkey	2012		LL	100	No. of annual trips
USA	1992		LL	9	No. of sets

Appendix 4. CPCs reporting in form ST09-DomObPrg data for 2020.

Appendice 4. CPC déclarant dans le formulaire ST09-DomObPrg les données pour 2020.

Apéndice 4. CPC que comunicaron en el formulario ST09-DomObPrg datos de 2020.

CPC/Year	Successfully Processed		Revised Requested	Empty	TOTAL
	2019	2020	2020	2020	
Algerie		2			2
Belize		3	3		6
Bolivia				1	1
Brazil		1			1
Canada		1	1		2
Cape Verde		1			1
China PR		1			1
Chinese Taipei	1	2			3
Costa Rica			2		2
Curaçao		1			1
Egypt		1			1
El Salvador		1			1
EU-Cyprus		1			1
EU-España		4			4
EU-France		1			1
EU-Greece		1			1
EU-Portugal		1			1
France St. Pierre et Ghana			1		1
Great Britain				1	1
Guatemala	1	1			2
Iceland				1	1
Japan		1			1
Korea Rep				1	1
Marocco				1	1
Mexico		1			1
Norway		1			1
Panama		2			2
Russian Federation		1			1
South Africa		2			2
Suriname				1	1
Tunisie		1			1
Turkey		1			1
UK-Bermuda				1	1
UK-Sta Helena				1	1
USA	1	1			2
UK-British Virgin Islands				1	1
UK-Turks and Caicos				1	1
TOTAL	3	34	7	5	47