

**SECRETARIAT REPORT ON
STATISTICS AND COORDINATION OF RESEARCH IN 2019**

Introduction

The activities and information included in this report refer to the period between 1 October 2018 and 18 October 2019 (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 during 2019 a slight regression in data completion quality (more datasets only passed the SCRS filtering criteria after the corrections made by the Secretariat) and submissions not using the ICCAT most recent electronic forms (2019 version). 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. Year 2019 was particularly difficult for the Secretariat, due to the increased number of SCRS and Commission meetings, 13 meetings were scheduled during the 1st semester of 2019 alone, which greatly limited the capacity of the Secretariat.

1. Statistical and biological information reporting status

The ICCAT Circular #0614/19 of 5 February 2019 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 for the intersessional meetings (all requiring finalised data up to 2018) were: White Marlin Data Preparatory meeting, 12 March 2019; Yellowfin Data Preparatory meeting, 22 April 2019. The general deadline for reporting 2018 statistics (or any required revision to prior years) of all species and fisheries was 31 July 2019. A tolerance of 24 hours has been given to include all the time zones.

A total of 58 ICCAT CPCs (53 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 76 flag related CPCs (51 CP + 1 CP [16 EU Member States] + 1 CP [4 UK Overseas Territories Member States] + 5 NCC) who have reported information to ICCAT in recent years. The term "flag CPC" was adopted here to refer to those 76 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, updated by the SCRS in 2017) to validate and accept statistical data received under official formats. The filtering criteria are embedded since 2015 in the electronic forms.

For 2018 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 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. This year, the Secretariat was able to correct a larger portion of the rejected datasets and inform the respective CPCs on the revisions needed. The updated datasets that arrived before July 31 are shown in "green", and the ones arriving afterwards are shown in "yellow". All 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

¹ Only data received by the Secretariat in valid formats (version 2018/2019 of the electronic forms, or special formats) and within this period was considered in this report. Information submitted afterwards is not referred to in the report.

used on every Task I and Task II dataset received (scenario 2, methodology described in Palma and Gallego, 2015²). The implementation of the SCRS filtering criteria to the remainder statistical and tagging forms will be progressively made in the next following years, because it requires that the Secretariat prepares in advance the corresponding databases, forms and develop the data integration tools.

About 90% of all of the “ST” statistical forms (ST01, ST02, ST03,..., ST11) received (a total of about 900 forms) during the reporting period were automatically processed, validated and stored, using the new JAVA “automated data processing framework” (nearly 100%, counting the forms with automatic integration in forms ST01 to ST06, and, discounting the data arriving in special formats). The Secretariat is currently enlarging the functionality of this framework to process the remainder statistical forms (ST07 through ST10 are under testing) and has plans to include in the future the automatic integration of the conventional tagging forms (possible only after the tagging database redesign, which will include an electronic tagging module).

Seven flag CPCs have used older SCRS forms to report 2018 data. In all cases these CPCs promptly replaced them with the 2019 version. This is crucial for a timely and effective data provision to the SCRS and the Commission. Thus, the Secretariat reminds CPCs of the Commission's requirement of using the MOST RECENT standard electronic forms for data submission.

The overall reporting status for 2018 data (summarised in **Table 5** and **Figure 1**), shows that 69 of the 76 flag CPCs (91%) have reported fisheries and biological information: 55 flags with catches (72%); 14 flags with no fishing activity (18%). No information was received from 7 flag CPCs (9%) over the reporting period: Gambia, Grenada, Guinea Bissau, Guinée Rep., Philippines, S. Tomé e Príncipe, and Venezuela.

1.1 Task I

The two datasets of Task I 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), being both forms 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 I 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 2018 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. Hence, the Secretariat reiterates once again the request to make this field obligatory for improving the quality of T1FC data and its potential use in scientific studies.

The T1FC Report Card for 2018 is presented in **Table 1**. For the fifth consecutive year (2014 to 2018) 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). Preliminary summary tables of T1FC were published in Section 6 of the ICCAT Statistical Bulletin Vol. 45 (<https://www.iccat.int/sbull/SB45-2019/index.html>).

² Palma C. & Gallego J.L. 2015. Results of applying Filters 1 and 2 to the 2013 statistical data reported during 2014. ICCAT Col. Vol. Sci. Pap. 71(6): 3070-3084.

The overall reporting ratio of ST01 for 2018 was 80% (61 flag CPCs) with 4 flag CPCs having late submissions. From the corrections made to ST01, 5 flag CPCs needed revisions (orange cells with 7%), and, 3 invalid forms should be completely revised. The total number of vessels reported as being actively fishing in the ICCAT Convention area between 2014 and 2018 (after eliminating possible duplicates) were about 13200, 15000, 6300, 11400, and 9100, respectively. For 2016, the decrease is mostly associated with the no reporting of smaller scale vessels (LOA < 20 m).

The vessel sizes (LOA) ranged from 5 to 195 meters in 2018 data, including small scale vessels reported in sub-form ST01B by seven flag CPCs. Near 16% of the vessels (about 1300 small scale vessels) reported in T1FC were not found in the ICCAT vessel record database (with about 52,700 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.

1.1.2 Nominal catch (T1NC)

Task I 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, completeness and timely availability datasets are essential for the SCRS work. 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 2018 is presented in **Table 2**, presenting only the CPCs that reported positive catches (excluding SCRS catch estimations) and the “zero” catches. A summary of the “zero” catches reported by flag CPCs and major species/stock in sub-form ST02B, is presented in **Table 15**. All the T1NC datasets received from 69 flag CPCs (91%), 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 7 flag CPCs. Only 7 flag CPCs (9%), have not yet reported this information. The total T1NC nominal catches (838,400 t) surpasses by about 11% the average of the last five years (752,200 t), noting that some important flag CPCs (St. Tomé e Príncipe, and Venezuela) have not yet reported T1NC statistics.

1.2 Task II

Task II 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 (TINC). Task II information is the main source of data used by the SCRS on stock assessments and the Secretariat on the 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 II information 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 harvested on farming facilities. These compiled datasets can be considered a special type of Task II size information. However, this information is treated separately (given the growth at the farms) and used in the stock assessment after discounting growth at farms.

1.2.1 Catch and effort

The T2CE Report Card for 2018 is presented in **Table 3**. Except for 8 forms, invalid and requiring revisions, the rest of T2CE information received was integrated into the ICCAT-DB. A total of 55 flags CPCs (72% reporting ratio), including 7 late-reporting flag CPCs and 3 flags with corrections on their data, have reported T2CE. 21 flag CPCs (28%) have not yet properly submitted T2CE statistics for 2018.

All the T2CE information was reported by month and in its majority having 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 tendency 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 task should continue in the future, 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, being the most problematic ones:

- 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 several years ago, T2CE statistics should be in all cases reported with the most complete species catch composition. This rule will avoid the duplication of the fishing effort for the same fleet/gear/year combination, in cases where each species is reported in a different form with incompatible stratifications.

1.2.2 Size information

The T2SZ Report Card for 2018 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 reason for this is because, neither of these two datasets currently have all the required conditions (formats, databases, forms, import/validation code, etc.) to be merged within the Report Card automatic generation process. The inclusion of these two datasets into the T2SZ Report Card is made manually after inventorying and checking all the datasets reported.

A total 52 flag CPCs (68%), including 5 CPCs with submissions after the deadline, have reported T2SZ. A total of 270 forms (190 of type ST04 and 80 of type ST05) passing filter 1 were validated and stored in ICCAT-DB. About 50 ST04 and 3 ST05 forms require additional corrections and will be revised with the respective CPC. 24 flag CPCs (32%) have not yet properly submitted T2SZ information for 2018.

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. With one exception (Japan T2CS of SWO) all the 2018 size information datasets arrived by month. The use of smaller geographical grids (1x1, 5x5, 5x10) has also increased slightly. The size/weight class bins reported for 2018 have followed the SCRS recommendation on size structures (1, 2, and 5 cm) and weight structures (1 kg). As opposed to the previous year, no error was observed in the units of the size/weight class bins (e.g. millimetres reported as centimetres) within 2018 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 (27 tables) are presented in **Appendix 1**. These catalogues show the information for a 30 year period, grouped by flag/gear group combinations, in terms of Task I nominal catches (ranked by importance in descending order), and the availability of Task II data catch and effort, size sampling, and catch-at-size, by year. This instrument, which summarises very large amounts of information per species/stock, shows the level of data completeness/availability, and the data gaps, for the most important

fisheries. In **Appendix 1** the catalogues are provided for the ten major tuna and billfish species and three main sharks stocks only. The catalogues for the main small tuna species were prepared for the Small Tunas Species Group intersessional meeting and updated for the SCRS.

Following the work started two years ago, the Secretariat continued to work on the development of the scoring system for each species using the information on the catalogues and applying a weighting function based on fishery importance in terms of total catch. Scores range from 0 to 10, where higher values indicate higher availability/coverage of Task II information in relation to Task I nominal catches. The methodology (SCRS/2019/45) presented to the Working Group on Stock Assessment Methods (WGSAM) was approved and proposed for adoption to the SCRS. The WGSAM also recommended to enlarge the score estimations to the small tuna species. The Secretariat presented the extended scores to the small tuna 2019 intersessional meeting (SCI-023). This instrument, provisionally named "SCRS scorecard on Task I/II data availability", is presented in **Table 6**. It has the format adopted by the WGSAM (exception: last column having the relative score changes against the 2017 final year on the "30 year" time frame) and already contains all the 2018 data received during the reporting period. Two indications arise from the scorecard results: a) A general increase of all the scores as we move from 30 to 10 year based scores; b) Overall, the scores coincides with how the SCRS categorises each species/stock in terms of fisheries data availability (data-poor/data-rich concepts).

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 481 releases and 83 recoveries made in late 2018 and during 2019.

1.3.2 Conventional tags

During 2018-2019, several Contracting Parties have reported the tagging of 123,335 fish with conventional ICCAT tags, and 17,362 recoveries (**Table 7**).

As in previous years, the Secretariat provided conventional tags for tagging experiments to the ICCAT scientific community (individual scientists or research institutions). From September 2018 to September 2019, the Secretariat distributed 3,850 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**).

This year, the forms TG01 for summary of tagging activities, and TG02 for conventional tags, were updated following the standard rules of the Statistic forms with harmonized header and structure in the three ICCAT official languages, and adapted for automatic processing. These two forms include validation of ICCAT codes on the data provided, and the fields considered irrelevant were removed. Form TG03 for electronic tagging data is still pending review as it is necessary to adapt the current structure of the Secretariat's tagging database taking into account the electronic tagging projects of the ICCAT GBYP and the Atlantic Ocean Tropical Tuna Tagging Programme (ICCAT AOTTP).

1.3.3 Tagging lottery

National laboratories award prizes or give gifts to people who recover tags to encourage the return of recovered tags. In support of these programmes, ICCAT organizes on a yearly basis a lottery carrying prize money of \$500.

In the latest ICCAT draw, which was held on 1 October 2018, prizes were awarded for three tags for each of the following categories: small tunas, sharks and billfish, respectively.

The winning tags were as follows:

- Small tunas: The tag ATP120584 was recovered from a little tunny (*Euthynnus alletteratus*/LTA) by a citizen from Côte d'Ivoire, 13 days after it had been attached. The tagging was carried out during the Côte d'Ivoire campaigns.
- Sharks: The tag 346876 was recovered from a shortfin mako shark (*Isurus oxyrinchus*/SMA) by a Spanish citizen. The tagging was carried out during the United States campaigns.
- Billfish: The tag SEC011002 was recovered from a Mediterranean spearfish (*Tetrapturus belone*/MSP) by an Italian citizen.
- No reward has been given this year in the temperate tunas category.

Once again this year an additional draw took place supported by the Atlantic-Wide Research Programme for Bluefin Tuna (ICCAT GBYP). This draw carries three prizes, two for €500 and one for €1,000 for recoveries of bluefin tuna tags (*Thunnus thynnus*/BFT) only. The winning tags and their rewards were as follows:

- €1000: The tag AAA007176 was recovered by a Spanish citizen, 977 days after it was attached. The tagging was carried out during the Spanish campaigns.
- €500: The tag BYP022147 was recovered by a Croatian citizen.
- €500: The tag BYP074548 was recovered by a Maltese citizen.

Again this year, a second additional draw took place supported by the Atlantic Ocean Tropical Tuna Tagging Programme (ICCAT AOTTP). The draw carried a cash prize of €500 for each of the main species in the tropics category. The winning tags and their rewards were as follows:

- Bigeye (*Thunnus obesus*/BET): The tag ATP039361 was recovered by a citizen from Côte d'Ivoire, 228 days after it had been attached. The tagging was carried out during the Spanish campaigns.
- Skipjack (*Katsuwonus pelamis*/SKJ): The tag ATP074777 was recovered by a Spanish citizen. The tagging was carried out during the Portuguese campaigns.
- Yellowfin (*Thunnus albacares*/YFT): The tag ATP039400 was recovered by a Senegalese citizen, 128 days after it had been attached. The tagging was carried out during the Spanish campaigns.

1.4 By-catch

For the second year, most by-catch data were submitted using the simplified ST09-NatObPrg form adopted by the SCRS in 2018. In addition to resubmissions of old data from several CPCs, the Secretariat received useable 2019 data submissions from 24 CPCs and Cooperating parties (an increase of 3 from 2018).

Table 9 provides a summary of ST09-NatObPrg data reported for the 2018 by discard fate and species group including sharks, sea turtles and seabirds. **Table 10** contains T1NC data for by-catch species for 2018.

1.4.1 Sharks

Shark data was submitted through ST09 forms and through Task I. These data are summarized in **Tables 9** and **10**, respectively.

1.4.2 Sea Turtles

A summary of sea turtles information submitted in 2019 in ST09 forms is provided in **Table 11**. The Secretariat received much of the by-catch information from submitted ST09-NatObPrg forms.

1.4.3 Seabirds

The Secretariat received information on seabird mitigation, interactions, and release fate on forms summarizing seabird mitigation measures (CP44) and the ST09-NatObPrg forms, as has been requested since 2016. A summary of the information submitted on ST09 forms for seabirds is provided in **Table 12**.

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 2018 data, all years before 2015 require a scientific document explaining the revision.

Several CPCs have submitted historical revisions to T1NC for tuna and tuna-like species, sharks and other by-catch species. A large portion of those revisions (tropical species, billfishes, Mediterranean swordfish, and major sharks), were made during the 2019 ICCAT intersessional data preparatory meetings or species groups meetings (please refer to meeting reports for details). Some gaps were also completed and unclassified gears properly 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 13**, which contains all the revisions with the supported SCRS documents and already adopted by the respective species groups. The porbeagle catch series recovered during the last ICCAT-ICES stock assessment (Report: SCRS/2009/014) were finally included into the Task I nominal catches, conserving the FAO/NAFO/ICES data source, as recommended by the Sharks Species Group. The full revision presented by Senegal in document SCRS/2015/092 (BB and PS of the three species major from 1969 to 2014), not shown in **Table 13**, has now been completely integrated into ICCAT-DB.

There are however, some official T1NC datasets (**Table 14**) reported for years before 2014, without a scientific document. These series would require SCRS approval.

No major revisions were made to T2CE. Only Albania has reported a PS series for 2014 (gap completion) and the Ghanaian BB and PS series from 2012 to 2018 re-estimated by the Secretariat during the 2019 Yellowfin stock assessment session (SCRS/2019/124). The above datasets, revised and adopted by the respective species groups (see **Table 16**) were integrated into the ICCAT-DB.

The Secretariat has also received some historical revisions for T2SZ. The major ones were from Mexico longline fishery (1993 to 2014 for YFT and WHM), EU-Spain longline fishery (1993-2014 for WHM) and Venezuela (2014 for WHM). The above datasets (detailed in **Table 17**) were adopted by the respective species groups and integrated into the ICCAT-DB.

2.2 Additional by-catch information

The Secretariat received information on seabird mitigation measures CP44 from nine CPCs. Thirty-two CPCs provided information on ST-11 forms describing new information on observer programmes.

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 10.3 for various purposes) with about 40 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 2019, the Secretariat completed the RDBMS server migration from MS-SQL 2008R2 to MSQ-SQL 2016.

In addition to the statistical and scientific information managed, 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 replace entirely the current ICCAT data reporting system. Two new senior software developer experts, Jose Sanz (front-end developer) and Manuel Maestre (back-end developer) were hired for one year to work full-time on the IOMS implementation, with the supervision and partial contribution to the development made by the Secretariat. The ICCAT Online Reporting Technology Working Group (WG-TOR, whose mandate was established under Resolution 16-19) will govern all the IOMS implementation process.

In 2019 the Secretariat redesigned three 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 is underway of four additional databases (Task I, Task II, 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.) is undergoing a merging process with the documentation related to IOMS implementation (IOMS embedded event driven “help”, REST API and other web-services, articles for cloud deployments, constant development/integration [CD/CI] practices, etc.). Both will share the same databases, which will allow the elimination of redundant documentation. This merging work is being continuously merged and updated in parallel with the improvements made to the ICCAT-DB and the progress of the IOMS.

As in the most recent years, an overloaded 2019 obliged the Secretariat to delay or postpone several projects. The most important ones were: postponement of the replacement of the stand-alone MS-ACCESS databases with Task II data (T2CE: “t2ce.mdb”, T2SZ/CS: “t2sz.mdb”) by the SQLite; postponement of the “ICCAT forms” online Task I/II validation prototype; delay of the GIS project (aimed to geo-reference 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 I and Task II

All the electronic forms used to collect Task I and Task II data (ST01-T1FC, ST01-T1NC, ST03-T2CE, ST04-T2SZ, ST05-CAS and ST06-T2FM) were updated to version “2019a” 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 forms (now under a testing/validation period) and also improved the automation processes to handle Task I and Task II forms. The Secretariat has plans to also develop automatic data integration for the conventional tagging forms TG01 and TG02. Extension of this automatic integration framework for all the “ST” and “TG” forms will occur progressively (2020 and beyond) due to its complexity.

3.1.2 Catch distribution (CATDIS)

The Secretariat continues to improve the CATDIS estimations on two main fronts, the level of detail and the automation process aiming to reduce the time to estimate it. A full revision of CATDIS (1950 to 2017) was made available in August 2018 for the nine main species and includes all the historical revisions of T2CE catch series, and changes in Task I catches. The resulting maps were published in the ICCAT Statistical Bulletin Vol. 45 (<https://www.iccat.int/sbull/SB45-2019/index.html>).

The historical T2CE recoveries before 1980 have been limited, in general. Thus, while there is a plan to produce the CATDIS by month, the T2CE data series before 1980 is incomplete and in many cases aggregated by year or trimester, which limits this improvement. The inclusion in CATDIS estimations of four additional species: spearfish (SPF), blue shark (BSH), shortfin mako (SMA) and porbeagle (POR) is still pending due to the lack of sufficient information in T2CE for these species (**Appendix 1**). As recommended by the Sharks Species Group, the Secretariat with very little time available (1 day) explored the potential to estimate CATDIS for BSH and SMA for the last two decades. The lack of T2CE for some of the most important fleets (details in **Appendix 1**) will only allow to estimate poor and potentially unrealistic time-space catch distribution estimates for those two species.

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 estimation. This year, the Secretariat has not updated the overall CAS estimations for YFT and Mediterranean SWO, because they were not considered a priority, and were left aside due to Secretariat time limitations. If required, they can be updated but only after the SCRS meeting.

3.1.4 FAD forms

In 2014, a new form (ST08-FadsDep) was created to capture 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](#). Few countries fishing for tropical tunas submitted information about their FAD fisheries and their FAD Management Plans. The information received by The Secretariat on ST08 forms on FAD deployments and on FAD Management Plans is summarized in **Appendix 2**.

3.2 By-catch/observers forms

Significant advances were made to improve national observer program data submission forms (ST09 and ST11). The ST09 was modified again to include much of the information that was lost with the 2018 version of the form: the form was modelled roughly after the spatial and temporal resolution of ICCAT's Task II but the form permits some flexibility for reporting at higher (set by set) or lower spatial/temporal resolution to allow CPCs to comply with their national laws. In addition, the form now allows for reporting the information about each CPC's National Observer Program that had previously been submitted on form ST-11. This modification should mean that more useful National Observer Program data can be collected compared to the 2018 form version and that once implemented, CPCs will have to complete one less statistical form.

The Secretariat made other significant achievements in dealing with National Observer Program data. For 2019 submissions, the Secretariat developed a JAVA computer program to validate data submissions. The program serves both a short term and a long term development purpose: in the short term it allows for data validation routines that can validate many more data fields than could be observed by eye and in the long term such applications can be used in conjunction with the IOMS system once it is implemented.

The most significant achievement was that the Secretariat processed and imported all the historical national observer program data into the ICCAT-DB system. This is the first time since the Secretariat began receiving National Observer Program data that these data have been entered in a database system. The storage of these data in a database means that additional data validation processes can be applied to those data, and that this database could eventually be queried and used by the SCRS, once errors are corrected. Because data validation had not been rigorously done since 2015, the validation and error checking of the old submissions is expected to require a lot of work and possible re-submission by CPCs.

3.3 Other stereoscopic cameras size sampling

Since 2014, CPCs start reporting size measures of eastern bluefin tuna at the caging transfers using stereo video camera recording systems. In 2015, an electronic form (ST06-T2FM) for data input was made available for CPCs to submit the stereoscopic camera size sampling data. For 2018/2019 size and estimated weight data have been received from CPCs with active bluefin tuna farms including Albania, EU-Croatia, EU-Malta, EU-Spain, Morocco, Tunisia and Turkey.

Beyond the catch at size distribution of the bluefin catches destined for farming operations, the stereoscopic size data have been used on research studies of farmed bluefin tuna growth, in conjunction with the size and weight at harvesting data. These studies have required the development of a specific database tracing bluefin caging operations as detailed as possible, which is a task currently under development with support from the GBYP and the Secretariat (SCRS/2019/198). This database will help scientist to address the Commission request on expected maximum growth during caging operations.

3.4 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 I and II). 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 2019.

3.4.1 ICCAT Vessel record

The Secretariat maintains the ICCAT Record of Vessels database up-to-date (Recs. 13-13, 14-10, 16-01, 16-05, 16-06, 16-07, 16-15, 17-02, 17-03 and 18-02), including a total of 11 Vessels Registry Lists requirements. 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 a continuous revision and update of the ICCAT vessel record database. The Secretariat is right now working with the EU on cross-validating both databases (ICCAT vessel record versus EU vessel record) aiming to harmonize the European vessel information in both places. It is expected to be finalised in one month.

3.4.2 Bluefin tuna fisheries

Recommendation 18-02 establish several reporting requirements for CPCs fishing bluefin tuna:

- List of vessels authorized to catch eastern bluefin (Para. 49 of Rec. 18-02)
- List of other bluefin tuna vessels authorized to operate in the eastern bluefin tuna fishery (Para. 49 of Rec. 18-02)
- Detailed information on bluefin tuna catches in the eastern Atlantic and Mediterranean in the preceding fishing year (Para. 57 of Rec. 18-02)
- Weekly eastern bluefin tuna catch reports by vessel and traps (Para. 74 of Rec. 18-02)
- Monthly western bluefin tuna catch reports (Rec. 17-06)
- VMS messages (Para. 5 of Rec. 07-08 and Para. 105 of Rec. 18-02)
- List of bluefin tuna traps (Rec. 18-02)
- Bluefin tuna farming facilities (Para. 9b) of Rec. 16-07)
- 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. 18-02)
- List of ports in which vessels are authorized to land and/or tranship eastern bluefin tuna (Para. 69 and 70 of Rec. 18-02)
- Data and information collected under each CPCs observer programme (Para. 83 of Rec. 18-02)

3.4.3 VMS messages

The VMS information received under Rec. 18-02 consists of a vessel ID (name, flag, radio call sign) and a position every four hours. 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 from 8 September 2018 to 16 September 2019 (reporting period). The plot represents only the Mediterranean Sea VMS messages that originated at sea.

3.4.4 Bluefin Catch Document (BCD) and electronic BCD

In compliance with Recommendation 11-20, the Secretariat receives copies of bluefin tuna catch documents that are intended to track bluefin tuna from the catch location to the market. **Table 18** summarizes the BCD catches (weight and number) currently available (as of 16 September 2019). In 2016, with the implementation of Rec. 15-10, the eBCD system become mandatory on 1 May 2016. Since 2016 the Secretariat continues to work with the eBCD Technical Working Group on further developments and support for the eBCD system.

3.4.5 Bluefin catch reports

Under Recommendation 14-04, bluefin catch reports are sent to the Secretariat. **Table 19** and **Table 20** summarize the information available from the monthly and weekly catch reports (as of 16 September 2018), respectively.

3.4.6 Caging declarations

Caging declarations are submitted by farming Contracting Parties in compliance with Recommendations 06-07 and 14-04. The caged amounts reported by different fleets and introduced into cages are shown in **Table 21**. Data shown represents data submitted up to 18 September 2018. Recommendation 11-20, which entered into force in June 2012, 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.

3.4.7 Statistical Document Programme

Recommendations 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 22** summarises the number of biannual reports (SD: statistical documents; RC: re-export certificates) received from ICCAT CPCs during the reporting period. **Table 23** and **Table 24** compare (swordfish and bigeye, respectively) for the period 2011 to 2018 (2019 is preliminary) current Task I nominal catch against trade statistics (SDs and RCs, in product weight) received during the reporting period.

3.4.8 Transshipments

Recommendation 16-15 established a programme to monitor at-sea transshipments by large-scale longliners. The amounts transhipped are reported in **Table 25**. Note that, there are many product types for which there are no conversion factors to a common weight unit.

3.4.9 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.

3.4.10 Bluefin Tuna Farming Operations

In 2017 the Secretariat presented an updated review of the size at harvest of bluefin from farming operations (Ortiz 2017³). This information was used in the 2017 Bluefin Stock Assessment. A new database integrating farming size at caging and harvesting operations and auxiliary information is being developed with the collaboration of the GBYP to address research on bluefin tuna growth during caging.

3.5 By-catch data

The ICCAT by-catch meta-database has been updated to the end of 2017 and uploaded to the ICCAT website for use by interested Parties (www.iccat.int/en/ByCatch.htm). These resources will facilitate the provision of by-catch data to the Species Groups for analysis.

3.5.1 Observer data

In 2018, to reflect the requirements stipulated in Rec. 16-14, the CP45 form was replaced by the ST11 form. In 2019 ST11 forms were submitted by 31 CPCs.

³ Ortiz M. 2017. Update review of bluefin tuna (*Thunnus thynnus*) size and weight measures taken with stereo video cameras at caging operations in the Mediterranean Sea 2015. ICCAT Coll. Vol. Sci. Pap. 73(7): 2289-2298.

In accordance with Recommendations 13-07 and 14-04, data collected under the national bluefin tuna observer programmes were also submitted to the Secretariat. For this reporting period it had been requested that these data be submitted using forms ST01-T1FC, ST02-T1NC, ST03-T2CE, ST06-T2FM. As such, this information is described elsewhere in this document although some data has been submitted using the ST09-NatObPrg forms. The EU in particular (Cyprus, France, Greece, Italy, Malta and Portugal) and Iceland provided information from their bluefin tuna observer programmes using the ST09 forms.

3.6 FAD management plans

The *Recommendation by ICCAT on a Multi-Annual Conservation and Management Programme for Tropical Tunas* (Rec. 16-01) states 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. The elaboration of the plan in Annex 6 provides an extensive list of criteria that must be included in the Plan.

In 2019, ST08 forms were received from 6 CPCs. Of these, one reported not using FADs. Data reported for the remaining CPCs are summarized in **Appendix 2**. Some of the requirements for the Plan are covered by the FAD data collection forms (ST08-FAD).

4. Work in support of the SCRS Intersessional Meetings

The main task of the Secretariat is providing full support for all intersessional and annual meetings of the SCRS including provision of the fisheries statistic data (Task I, II, tagging) 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 Sub-Committees, 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, Call for tenders and other activities aiming at the best use of the available funds for science and data collection.

During the 2019 the Secretariat provided support to the following SCRS meetings:

- Intersessional Meeting of the Bluefin MSE Technical Group
 - The meeting was held in Madrid, Spain 7–9 February 2019
- Intersessional Meeting of the Bluefin Species Group
 - The meeting was held in Madrid, Spain 11-15 February 2019
- Intersessional Meeting of the Swordfish Species Group
 - The meeting was held in Madrid, Spain 25-28 February 2019
- White Marlin Data Preparatory Meeting
 - The meeting was held in Madrid, Spain, 12-15 March 2019
- Intersessional Meeting of the Sub-Committee on Ecosystems
 - The meeting was held in Madrid, Spain 8-12 April 2019
- Meeting of the Working Group on Stock Assessment Methods
 - The meeting was held in Madrid, Spain, 8-12 April 2019
- Yellowfin Tuna Data Preparatory Meeting
 - The meeting was held in Madrid, Spain, 22-26 April 2019
- Shortfin Mako Stock Assessment Update Meeting
 - The meeting was held in Madrid, 20-24 May 2019
- White Marlin Stock Assessment Meeting
 - The meeting was held in Miami, USA 10-14 June 2019
- Intersessional Meeting of the Small Tunas Species Group
 - The meeting was held in Olhão, Portugal 24-27 June 2019

- Yellowfin Stock Assessment Meeting
 - The meeting was held in Grand Bassam, Côte d'Ivoire, 8-16 July 2019
- 2nd Intersessional Meeting of the Bluefin MSE Technical Group
 - The meeting was held in St. Andrews, Canada 23–27 July 2019
- 3rd Intersessional Meeting of the Bluefin MSE Technical Group
 - The meeting was held in Madrid, Spain 19–21 September 2019

5. Infrastructure and technology

Described below are the most significant aspects that have improved the Secretariat's IT resources in the period 2018-2019.

5.1 Configuration of IT resources for new recruits

The IT needs have been met of two new recruits, Manuel Mestre and José Sanz, who belong to the IOMS project, and which include purchase and configuration of new computers, accesses to network resources and their corporate e-mail accounts.

Technical support is provided to the 39-strong staff of the Secretariat.

5.2 Renewal of the UPS of the servers rack and connectivity

At the end of 2018, there was an electricity incident at the ICCAT Secretariat offices, which affected the functioning of the APC of the UPS. It was urgently replaced by a Delta UPS. Unfortunately, to date, due to a manufacturer fault, it has not been possible to programme sequential shutdown of the virtual servers. The supplier has proposed a switch to a UPS APC, for which this functionality has been verified, at an additional cost. It is important to prevent damage to virtual machines in the event of an electricity incident, since they enable continuation of the Secretariat's activities.

5.3 Upgrade of the backup solution of the virtual machines

The backup solution of the virtual machines has been improved. A service mode backup has been contracted, backup reports have improved, as well as technical attention in response to any incident that is generated. In addition to a local backup, we have an offsite backup in the cloud via Veeam Connect.

5.4 Upgrade of Office 365

The Exchange Online Plan 2 e-mail licenses have been upgraded to Office 365 Empresa Premium. As a result, the version of Office is constantly upgraded over time, the management of Office licenses is focused, and other benefits are obtained, such as the use of Office Online, SharePoint, Skype for Business (being discontinued by Microsoft), which is equivalent to Teams.

5.5 Upgrade of ICCAT website server

The website server has been upgraded from Windows Server 2008 to Windows Server 2016. Also the SQL Server 2008 software has been upgraded to the 2016 version.

5.6 Sourcing of a new Wi-Fi system

The former Cisco based Wi-Fi has been replaced and a new Wi-Fi system has been sourced for workers and guests at the Secretariat based on the manufacturer Aruba (HP). Domestic access points have been removed; 6 AP IAP-305 access points distributed over two floors of the offices, plus two high density AP-220-MNT points located in the meeting room and library on the 7th floor.

5.7 Sourcing of a switching solution

Two Aruba switches have been sourced, to replace the old CPD core switches. They are two 48 port slot switches, model 2930M 48G PoE, i.e. a logical switch and two physical switches. They also supply power to the new Aruba Wi-Fi access points.

5.8 SDL Trados Course and installation of Office 365

A practical course was delivered on the software SDL Trados Studio 2019, including its new features, by the manufacturer, to the Department of Translation and Publications. Installation and initial use sessions for Office 365 have been given to all the Secretariat staff. An Excel medium level course has been attended.

5.9 Monitors for the Department of Translation and Publications

6 monitors have been upgraded in the Department of Translation and Publications.

5.10 New generation antivirus

The Symantec Endpoint protection software has been upgraded to a new generation version.

5.11 Cabling of the 4th and 8th floors for the species groups and other meetings

Cabling has been carried out in the meeting rooms on the 4th and 8th floors of the building, for use during meetings held at the Secretariat.

5.12 Improvements for the SCRS meeting

Two Aruba AP-220-MNT high density access points have been sourced for use during the SCRS and/or other meetings in the future. There is also a small Fortinet firewall to improve Internet access security at meetings, an Aruba 8-switch PoE switch and a QNAP Network Attached Storage (NAS) as the replacement for the old ProLiant G5 server which was taken to these meetings.

5.13 Submission of a draft acceptable use policy

A draft of the acceptable use policy has been submitted, which aims to take the first steps in defining security policies for the ICCAT Secretariat staff. This document will be discussed internally in 2019.

5.12 Compliance with the protection of personal data law

Contact has been made with a company specialising in this area and the initial tasks are being carried out. The software installed in all computers used by the ICCAT Secretariat staff needs to be identified. Once this stage has been completed, the next stages indicated by the specialist company will be implemented.

5.13 Cloud computing

An increasing large number of intersessional and computer intensive tasks have been undertaken by SCRS Working Groups. Since 2015 the ICCAT Cloud-computing servers (<https://meetings.iccat.int>) have been used for conducting the work of the Data Preparatory and Stock Assessment meetings; i.e. for hosting data sets, collaborating on analyses, dissemination of SCRS papers, and drafting reports. Cloud servers have been contracted with OwnCloud and used for computer intensive tasks, for example to run large simulation programmes to obtain the probabilities of stock status under different management options under the Kobe Advice Framework. The Cloud servers have also been used to conduct Management Strategy Evaluation (MSE) for North Atlantic albacore to test Harvest Control Rules and develop limit reference points; and to generate data sets such as catch-at-size and age and EFFDIS.

Following the recommendations of the SCRS and Species Working groups, since 2018 the Secretariat contracted the internet services cloud GitHub and Google Drive, which enable development and collaborative work among scientists and the Secretariat for projects such as development of MSE,

photographic file storage, standardization work on otolith reading, reproduction stages, and farm videos. All these services have data protection and security systems that are consistent with the ICCAT data privacy policy.

Other cloud computing services, such as GitHub repositories (<https://github.com/iccat/>) are also being used to host the albacore, swordfish and bluefin MSE code, reports and analysis trials, the ICCAT software catalogue, and the GBYP meta-DB greatly facilitating the diverse research activities of the SCRS and promoting active participation and collaboration among ICCAT scientists.

The OwnCloud web server has been used by the SCRS and most Commission meetings to share information, data, documents and models required to facilitate the work of the various groups and panels. The Secretariat has provided access details in advance of the meetings, to registered participants, so that they can access the necessary information prior to the start of the meetings.

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 26** shows the volumes of these series that were published in 2018 and 2019. Due to the request from the Commission to reduce costs, all the ICCAT periodic publications are now only published in electronic format and are all available for download in the ICCAT publications webpage.

Volume 4 of the Biennial Report was published for the first time in 2011. This Volume 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 45 of the Statistical Bulletin was published in electronic version. The current edition provides the catches and other statistics series for the period 1950 to 2017.

Given the Secretariat's workload and the request for reducing time of publications 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 of applying this practice 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 be published in electronic format soon after Sub-committees and Species Groups and Working Group meetings. As a result of improvements imposed in the publication process, in late 2018 and throughout 2019 the Secretariat published volume 75 (issues 6 to 8) and volume 76 (already published 6 issues) of the ICCAT Collective Volume of Scientific Papers.

The Secretariat continued to work on developing processes which facilitate editing work undertaken by the Secretariat to maintain the current quality standard of the publications. A new template for authors of ICCAT Collective Volume of Scientific Papers has been made available.

6.2 ICCAT- Aquatic Living Resources (ALR) Agreement

In 2007, ICCAT signed an agreement with ALR aimed at providing greater dissemination of the work of the SCRS within the scientific community. This agreement meant the development of a thematic section on tunas in the journal, to include documents presented to the SCRS and selected by the SCRS to be inserted in this section. Since that date, six volumes of the journal have been published with this section and a total of 24 ICCAT documents. However, in 2014 ALR changed its editorial line towards an ecosystem approach of fisheries management, which considerably reduces the possibilities of publishing the documents presented to the SCRS.

In 2015, the former ALR editor, Dr Brigitte Milcendon, informed the Secretariat that ALR would continue as a peer-reviewed journal, with a new editing team and without the participation of IFREMER in the publication. Dr Milcendon also expressed the new team's will to maintain the agreement with ICCAT. The field of interest of the journal in its new phase will continue to have an ecosystem approach, but with a broader outlook than in its last phase, which will open the publication up to a larger number of SCRS documents. In 2016 the Secretariat contacted the new ALR editorial team, whom reiterated their willingness to enhance the collaboration with ICCAT and requested a greater involvement of the SCRS in the process of selection, review and publication of the documents, through an Editorial Committee. On the other hand, ALR expressed their willingness to publish a few more ICCAT papers (12-15) on an annual basis. However, in 2016 only 2 papers were selected by the Sub-committees Conveners and Species Group Rapporteurs as of potential interest for publication in the ALR. In 2017 and 2018 no papers were selected. Based on this fact, which precludes ALR annually having an ICCAT issue, the Secretariat together with the SCRS Chair presented in 2018 an alternative option, according to which the Sub-Committee's conveners and the Species/Working Group Rapporteurs should identify in their workplan for 2020, a specific paper that will be put forward for publication in the primary literature. When possible, Rapporteurs should identify such paper in 2019 also, even if it is not an objective of the current work plan.

6.3 ICCAT Manual

In 2019, a request has been made regarding the Manual. The Small Tuna Species Group recommended to extend the species description chapter(s) of the ICCAT Manual for other small tuna species, including wahoo (*Acanthocybium solandri*), serra Spanish mackerel (*Scomberomorus brasiliensis*), West African Spanish mackerel (*Scomberomorus tritor*), dolphinfish (*Coryphaena hippurus*), plain bonito (BOP, *Orcynopsis unicolor*) and cero mackerel (CER, *Scomberomorus regalis*), and update all other species chapters which were last updated in 2006, except for *Thunnus atlanticus*, which was updated in 2013.

6.4 ICCAT web site

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

In June 2018, the Secretariat concluded the development and released the new ICCAT web site, which uses HTML5 technology and CSS3 style. With a new structure, the ICCAT website can be accessible and can be used in a more user-friendly mode from different mobile devices, tablets and portable computers. A search engine for the ICCAT documents is being developed for the webpage in 2019.

7. International activities

7.1 Coordinating Working Group on Fishery Statistics (CWP)

In 2018, the Secretariat staff attended the FAO CWP technical workshop on global harmonization of tuna fisheries statistics. The workshop organized under the CWP *Ad-hoc* Task Group on "Reference harmonization for capture fisheries and aquaculture statistics", was held at the FAO Headquarters in Rome (19-22 March 2018). It was sponsored by FAO/FI (FAO Fisheries and Aquaculture Department) in collaboration with Common Oceans ABNJ Tuna project and others. Experts on fisheries data management from all the five t-RFMOs were represented at the meeting as FAO/CWP parties. The main subjects discussed involved, the review of the current CWP standards on fisheries statistics, the review and harmonization of statistical concepts and data structures, the review of t-RFMO coding systems and methods to "map" (decode and exchange) codes among CWP parties, and others. This work aims at establishing the "CWP standard for reference harmonization" (a unified data structure composed of harmonized statistical concepts and definitions), an instrument planned to meet the requirements of CWP parties in data exchange (database interoperability) and reporting (data normalisation). The FAO Tuna Atlas development status (currently, mostly based on public data from t-RFMOs, like nominal catches and catch & effort) with associated tools and services, was also reviewed. The report of the technical workshop is not yet available.

7.2 Fisheries and Resources Monitoring System (FIRMS)

ICCAT is 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. In 2019, the Secretariat updated the species identification sheets for blue marlin, bigeye tuna, north and south Atlantic swordfish, Mediterranean albacore, and north and south Atlantic shortfin mako populations, which were assessed by the SCRS in 2017 and 2018.

7.3 ASFA

Since the last SCRS meeting, the Secretariat has prepared the entries for the Aquatic Sciences and Fisheries Abstracts (ASFA-ProQuest) database of the papers published in issue 5 of Volume 69 and issues 1 to 3 of Volume 70 of the ICCAT Collective Volume of Scientific Papers.

7.4 iMarine

The iMarine initiative is an open and collaborative initiative aimed at supporting the implementation of the Ecosystem Approach to fisheries management and the conservation of living marine resources. The Secretariat remains a member of the iMarine extended board.

7.5 EU Liaison and DCF (data collection framework)

ICCAT has participated on the 16th Liaison meetings (Sub-group of the European Commission expert group on fisheries data collection) as a possible end-user of the EU data collection framework (DCF). The Secretariat considers that the DCF system has the potential to be used in ICCAT by EU Member States to fulfill their data obligations.

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 separately presented in reports to the SCRS (see SCI-39, SCI-40, SCI-41, SCI-42 and SCI-43, respectively). The Secretariat's participation in these programmes mainly consists in administrative and scientific support. In the administrative area the Secretariat aids with the coordination of research of proposals, Call for tenders, funds administration and oversees auditing and accounting responsibilities of these programmes. Regarding scientific support the Secretariat has a major role between the SCRS and the programme coordinator for the design of research proposals, Call for tenders, evaluation of proposals, coordination of research and database management, as well as IT support to each of the programmes. As in the past, during 2019 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 SCRS report, item 10.6), namely regarding the ongoing work of the Sub-Committee on Ecosystems, swordfish and albacore Species Groups, as well as, the Stock Assessment methods Working Group. Such support involved coordination of research of proposals, Call for tenders, administration of allocated funds and accounting responsibilities of the different contracts issued.

9. Other activities

9.1 Areas Beyond National Borders (ABNJ) Seabird Bycatch Assessment Project

The Bycatch Coordinator attended the third meeting of the ABNJ seabird bycatch assessment in tuna fisheries was held February 25 to March 3, 2019 in Kruger National Park South Africa. The complete list of objectives was to get a global estimate of seabird bycatch in the Southern Hemisphere; to determine

uncertainties and sensitivity analyses; and to determine population level impact on key species, determine roadmap for future work, and to expand capacity. Scientists at the meeting included those from governments (Japan, Korea, Chinese Taipei, Brazil, China, Australia, The United States of America, South Africa), NGOs (Royal Society for the Protection of Birds/BirdLife International, Projeto Albatroz) and international organizations including the Agreement on the Conservation of Albatross and Petrels, FAO, SPC, IOTC and ICCAT. A draft final report of the meeting was accepted at the meeting. Once the report is accepted by FAO, it will be published.

9.2 International Workshop on Mitigating Environmental Impacts of Tropical Tuna Purse Seine Fisheries

The meeting was in Rome, Italy, from 12-13th March 2019. Workshop participants included scientists, NGOs, tuna RFMOs, manufacturers and purse seine fishing companies. The workshop was co-sponsored by the Common Oceans ABNJ Tuna Project and focused on six sessions: (1) Bycatch of the tuna purse seine fishery, (2) sharks and rays, (3) small bigeye and yellowfin tuna, (4) FAD structure impacts, (5) FAD management, and, (6) looking ahead: the next 10 years. Presentations for each of these topics were made, followed by discussions. More information about the meeting can be found at: [Report of the workshop mitigating environmental impacts of tropical tuna purse seine fisheries](#)

9.3 FAO Workshop on Options to Operationalize the Ecosystem Approach to Fisheries Management in tuna RFMOs

The workshop was held at FAO Headquarters, Rome on 17-19 September 2019. Invited participants included decision makers and Commissioners from States, scientific advisors, and other relevant stakeholders. The Bycatch Coordinator presented a summary of ICCAT approaches to ecosystem approaches to fisheries management (EAFM). The aim of this workshop was to make possible EAFM roadmap to operationalization of the EAFM process in tuna RFMOs. The report of the meeting will be made available on the FAO website (www.fao.org) once it becomes available.

9.4 Collaboration with the International Seafood Sustainability Foundation (ISSF)

ISSF Participating Companies continue to provide the Secretariat with detailed information on catches (by vessel trip, species and commercial size category) for all their purchases. These correspond to unloading of catches from tropical tunas (bigeye, yellowfin, skipjack) and albacore to canning plants around the world. This information has previously been used by the SCRS. In 2019 the Secretariat was informed by ISSF that the Secretariat of the Pacific Community (SPC, Science Provider to WCPFC) receives the same types of data files from ISSF Participating Companies that the ICCAT Secretariat does. SPC has developed code to semi-automatically input the data into their database. SPC has expressed willingness to process the ICCAT data, at no cost to ICCAT, and export it in a format that the Secretariat can use effectively. The Secretariat will soon contact SPC to see how to make this happen. ISSF also noted that it has amended its requirement for cannery data submissions to RFMOs, so that a single data reporting format must be used starting in 2020. This should solve the problem found with multiple submission formats.

9.5 Mediterranean Advisory Council (MEDAC)

The Mediterranean Advisory Council (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 ICCAT Secretariat receives annually an invitation to attend one of their meetings and to provide a presentation on the recent findings of the SCRS as regards to the status of the stocks of eastern Atlantic and Mediterranean bluefin tuna, as well as for the Mediterranean albacore and swordfish stocks.

9.6 International Council for the Exploration of the Sea (ICES)

Considering the fruitful experience ICCAT and ICES have had in recent years regarding scientific collaboration, in 2018 both organisations expressed their willingness to strengthen this cooperation and

explore new initiatives and discussions which have commenced between the Secretariats. It has been agreed therefore that it is appropriate and desirable to improve collaboration between ICCAT SCRS-ICES, particularly in the areas of by-catch, sharks and stock assessment issues, through our Sub-committee on Ecosystems and By-catch, the Shark Species Group, as well as the WGSAM. Specifically, it would be convenient to keep the participation of ICES scientific experts in ICCAT Shark Stock Assessments, as well as in both (stock assessment) Methods Working Groups.

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) and since December 2014, in a third phase, with the ICCAT/Japan Capacity-Building Assistance Improvement Project (JCAP) (the report is contained in document SCI-09).

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 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, which are developing States regarding their need to acquire knowledge and develop capacities in ICCAT related issues. In 2017 the Commission decided to keep this fund but allocated no budget to it for 2018 and 2019, while it was also decided to move the respective balance in 31 December 2017 to the Science Envelope budgetary line.

In 2017 a new Fund was created, supported 80% by the European Union to further develop the T3+ software, which is essential for estimating Ghana statistics of tropical tuna. This fund was extended to 2019 and included in the Science Envelope budgetary line, although it has not yet been used since the conditions for the collaborative work to be undertaken between the developers of T3+ and Ghanaian scientists have not yet been achieved.

To support the SCRS work, at its 2018 meeting, the Commission approved a total amount of €150,000 for the 2019 Science Envelope. In addition, in 2019 the EU committed an additional contribution of €638,050 and the USA provided a total of US\$70,000 for the Billfishes Research Program Data Fund.

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 2019 the funds have been used as follows:

- Participation at SCRS meetings: 58 scientists from Algeria, Brazil, Cabo Verde, Côte d'Ivoire, Egypt, Gabon, Ghana, Liberia, Mauritania, Mexico, Namibia, Nigeria, São Tomé and Príncipe, Senegal, Sierra Leone, Tunisia, Uruguay and Venezuela, were funded to attend the SCRS scientific meetings.
- Improvement of statistics: Training course to build the capacity of data collection in the industrial and artisanal fisheries in Gabon, Namibia (to be held in November 2019) and Angola (to be

scheduled) and rebuilding of the statistical and fisheries data collection system in Liberia (supported by JCAP); Capacity building courses aiming to enhance participation of managers in MSE processes - training workshops in MSE development to be conducted in the margins of the 2019 Annual meeting of the Commission.

- Scientific capacity building courses: two scientists from developing CPCs (Tunisia and Mauritania) received training in SS3 and BSP Stock Assessment model, at US institutions (NOAA and University of Miami).
- SCRS activities funded the following:
 - Short-term contract for ICCAT collection of biological samples for the study of growth of billfish in the eastern Atlantic;
 - Short-term contract Atlantic blue marlin Gulf of Mexico reproductive biology study (to be signed);
 - Short-term contract for ICCAT SMTYP for the biological samples collection for growth, maturity and genetics studies;
 - Short-term contract for ICCAT swordfish biological samples collection for growth, reproduction and genetics studies;
 - Short-term contract for modelling approaches: support to ICCAT North Atlantic swordfish MSE process;
 - Short-term contract for Mediterranean swordfish data recovery;
 - Swordfish workshop on sampling and processing protocols aiming at growth and reproduction studies;
 - Short-term contract for the addition of swordfish distribution model to the longline simulator study;
 - Short-term contract for improvement of the North Atlantic albacore management strategy evaluation (MSE) framework;
 - Collaborative analysis using longline operational data to standardized Atlantic yellowfin tuna CPUE indices;
 - Electronic PSAT tagging of Atlantic swordfish, northern albacore and Atlantic pelagic sharks;
 - Study on genetic stock structure of shortfin mako shark based on mitochondrial analysis;
 - Study on the reproduction of northeastern Atlantic porbeagle;
 - Experts workshop to evaluate the impact of fishing on seabirds;
 - Attendance of intersessional SCRS meetings (e.g. seabird expert).

11. Major statistical and IT Tasks planned for 2020

The Secretariat has been working since 2017 on the Integrated Online Managements System (ICCAT IOMS). This project started with two prototypes, the FORS (Fisheries online reporting system, financed by GEF) and the "ICCAT forms" (recommended by the SCRS and made by the Secretariat) aimed to validate online Task I and Task II forms. In 2018, the Sub-Committee on Statistics recommended (after evaluating the two web-applications presented) that both projects be merged. The SCRS and the Commission's Online Reporting Technical Working Group has supported and recommended to continue with this project, including its extension to all the compliance and statistical data submission requirements of ICCAT. The Commission also recognized that implementing the project ICCAT IOMS system does require a commitment for financial and expertise support for moving forward and completing it in a near future to fulfill the recommendations from the Online Reporting Technology Working Group. In 2019 the Commission approved Phase 1 of the ICCAT IOMS project. The Secretariat started its development with the hire of two senior software developers in June 2019. The IOMS Phase 1 workplan and specifications are described in document COC_317_IOMS_Phase1_Proposal. The new IOMS development phases will be specified by the ICCAT WG-TOR.

The tasks represent continuous database improvements and maintenance that will continue during 2020 and beyond. The priority tasks (including the ones postponed in 2019) for 2020 are:

- Replace the stand-alone MS-ACCESS Task II databases on the web by SQLite equivalent ones.
- Improve the “client applications” that manage the databases of ICCAT-DB system.
- Continue the tagging database redesign, including the addition of the model structure for electronic tagging, TG forms standardization, and automatic data integration of TG forms.
- Continue the development of the GIS project (create a PostGIS server and geo-reference all the ICCAT data available in ICCAT-DB).
- The standardization of electronic forms of compliance and statistics for automatic data integration.
- The adaption of all the databases of ICCAT-DB to the ICCAT IOMS system.

12. Secretariat staff and organization

In May and June 2019, Manuel Maestre and José Sanz joined the Secretariat staff as senior software developers under the IOMS project. The former Compliance Officer, Carmen Ochoa handed in her resignation. Alberto Parrilla was appointed as Compliance Officer at the Department of Compliance, leaving his position in the Department of Research and Statistics. Dr. Valerie Samedy was appointed as VMS Manager and Technical Officer for the Compliance Department. Detailed information on the structure and the Secretariat staff is available on the ICCAT web site (www.iccat.int/en/staff.html).

Table 1. Task I fleet characteristics (new form ST01-T1FC) submission status for 2018 data ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not reported or no active fleets).

Tableau 1. Situation de la soumission des caractéristiques des flottilles de la Tâche I (nouveau formulaire ST01-T1FC) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou pas de flottilles actives).

Tabla 1. Estado de la presentación de características de la flota de Tarea I (nuevo formulario ST01-T1FC) para los datos de 2018 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o no hay flotas activas).

			Deadline (+1 day tolerance) / Fishery													
			2019-08-01													
Status	Party	Flag	ALBM	ALBN	ALBS	BFTE	BFTW	MULTIFISH	NONE-BC	SHARKS	SMTuna	SWOM	SWON	SWOS	TROP	
CP	ALBANIA	Albania				0										
	ALGÉRIE	Algerie				1						1				
	ANGOLA	Angola														
	BARBADOS	Barbados						-0.2								
	BELIZE	Belize		1	1					1			1	1		
	BRAZIL	Brazil								1				1		
	CANADA	Canada		-0.2			-0.2		-0.2					-0.2		
	CAP-VERT	Cape Verde														
	CHINA PR.	China PR		1	1								1	1	1	
	CÔTE D'IVOIRE	Côte d'Ivoire		1												
	CURAÇAO	Curaçao														
	EGYPT	Egypt				1										
	EL SALVADOR	El Salvador														
	EUROPEAN UNION	EU.Bulgaria									1	1				
		EU.Croatia				1										
		EU.Cyprus		1		1							1			
		EU.Denmark														
		EU.España		1	1	1	1						1	1	1	
		EU.France														
		EU.Germany								0						
		EU.Greece		1		1							1			
		EU.Ireland			1		1									
		EU.Italy				1										
		EU.Latvia														
		EU.Lithuania														
		EU.Malta		1		1							1			
		EU.Netherlands								1						
		EU.Portugal			1					1	1			1	1	
		EU.United Kingdom								1	1	1				
		FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon													
		GABON	Gabon													
		GAMBIA	Gambia													
		GHANA	Ghana													
		GRENADA	Grenada													
		GUATEMALA	Guatemala													
		GUINEA BISSAU	Guinea Bissau													
		GUINEA ECUATORIAL	Guinea Ecuatorial													
		GUINÉE REP.	Guinée Rep.													
		HONDURAS	Honduras													
		ICELAND	Iceland													
		JAPAN	Japan													
		KOREA REP.	Korea Rep.				1			1						
		LIBERIA	Liberia													
		LIBYA	Libya				1									
		MAROC	Maroc				1				1		1	1		
		MAURITANIA	Mauritania													
		MEXICO	Mexico											1		
		NAMIBIA	Namibia			1					1				1	
		NICARAGUA	Nicaragua													
		NIGERIA	Nigeria													
		NORWAY	Norway				1									
		PANAMA	Panama													
		PHILIPPINES	Philippines													
	RUSSIA	Russian Federation									1					
	S. TOMÉ E PRÍNCIPE	S. Tomé e Príncipe														
	SENEGAL	Senegal									1					
	SIERRA LEONE	Sierra Leone														
	SOUTH AFRICA	South Africa			1									1		
	St VINCENT & GRENADINES	St. Vincent and Grenadines		1	1								1			
	SYRIA	Syria				1										
	TRINIDAD & TOBAGO	Trinidad and Tobago														
	TUNISIE	Tunisie				1		0				0				
	TURKEY	Turkey				1						1				
	UNITED KINGDOM (O.Territories)	UK.Bermuda		-0.2							-0.2				-0.2	
		UK.British Virgin Islands														
		UK.Sta Helena														
		UK.Turks and Caicos														
	UNITED STATES	U.S.A.											1			
	URUGUAY	Uruguay														
	VANUATU	Vanuatu														
	VENEZUELA	Venezuela														
NCC	Bolivia	Bolivia														
	Chinese Taipei	Chinese Taipei		1	1											
	Costa Rica	Costa Rica						-0.2	-0.2	-0.2	-0.2				-0.2	
	Guyana	Guyana							-0.2							
	Suriname	Suriname														

NOTES: NO FISHING ACTIVITY (flags in green, 14 flags): EU.Latvia, FR.SP Miquelon, Honduras, Iceland, Nicaragua, Nigeria, Sierra Leone, UK.BV Islands, UK.Turks & Caicos, Uruguay, Vanuatu, Bolivia, Costa Rica, Suriname
 NO TARGETING ACTIVITIES (some by-catch): EU.Denmark, EU.Germany, EU.Lithuania, EU.Netherlands, and, EU.United Kingdom.
 ERRORS/UNDER REVISION: Côte d'Ivoire, EU-France, EU-España, Guatemala, Panama, Senegal, etc.

Table 2. Task I nominal catch (form ST02-T1NC) submission status for 2018 data ("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 I (formulaire ST02-T1NC) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou prises zéro).

Tabla 2. Estado de la presentación de los datos de captura nominal de Tarea I (formulario ST02-T1NC) para los datos de 2018 ("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): 2019-08-01											Small tuna			Sharks (major sp.)		
			Tuna (major sp.)											(any of 13 sp)			BSH		
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT							
CP	ALBANIA	Albania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ALGÉRIE	Algerie			-0.2					-0.2				-0.2		-0.2			
	ANGOLA	Angola		-0.2	-0.2			-0.2				-0.2		-0.2					
	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
	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					
	CHINA PR.	China PR	1	1	1	1	1		1	1	1	1	1	1		1			
	CÔTE D'IVOIRE	Côte d'Ivoire	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CURAÇAO	Curaçao	1	1				1				1	1	1					
	EGYPT	Egypt			1														
	EL SALVADOR	El Salvador	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	EUROPEAN UNION	EU.Bulgaria												1					
		EU.Croatia	1								1			1					
		EU.Cyprus	-0.2		-0.2					-0.2									
		EU.Denmark	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU.España	1	1	1	0	0	1	0	1	0	1	1	1	1	0	0	0	0
		EU.France	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	1	1	1	-0.2	-0.2	-0.2	-0.2	1
		EU.Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU.Greece	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		EU.Ireland	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
		EU.Italy	1	1	1			1			1		1	1	1	1	1	1	1
		EU.Latvia																	
		EU.Lithuania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU.Malta	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		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	0	1	1	1	0	1	1	1
		EU.United Kingdom	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													-0.2				
	GABON	Gabon																	
	GAMBIA	Gambia																	
	GHANA	Ghana	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	GRENADA	Grenada																	
	GUATEMALA	Guatemala		1				1				1	1	1					
	GUINEA BISSAU	Guinea Bissau																	
	GUINEA ECUATORIAL	Guinea Ecuatorial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GUINÉE REP.	Guinée Rep.																	
	HONDURAS	Honduras																	
	ICELAND	Iceland																	
	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
	LIBERIA	Liberia	0	0		0	0	0		0	0	0	0	0	0	0	0	0	0
	LIBYA	Libya	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MAROC	Maroc	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MAURITANIA	Mauritania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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					
	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 PRÍNCIPE	S. Tomé e Príncipe																	
	SENEGAL	Senegal	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0
	SIERRA LEONE	Sierra Leone																	
	SOUTH AFRICA	South Africa	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	St VINCENT & GRENADINES	St. Vincent and Grenadines	0	0		0	0	0	0	0	0	0	1	0					
	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
	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 (O.Territories)	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
		UK.Turks and Caicos																	
	UNITED STATES	U.S.A.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	URUGUAY	Uruguay																	
	VANUATU	Vanuatu																	
	VENEZUELA	Venezuela																	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Suriname	Suriname																	
NCO	Non-contracting parties	ICCAT (RMA)			0														
		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, 14 flags): EU.Latvia, FR.SP Miquelon, Honduras, Iceland, Nicaragua, Nigeria, Sierra Leone, UK.BV Islands, UK.Turks & Caicos, Uruguay, Vanuatu, Bolivia, Costa Rica, Suriname
NO TARGETING ACTIVITIES (some by-catch): EU.Denmark, EU.Germany, EU.Lithuania, EU.Netherlands, and, EU.United Kingdom.
ERRORS/UNDER REVISION: Côte d'Ivoire, EU-France, EU-España, Guatemala, Panama, Senegal, etc.

Table 3. Task II catch and effort (form ST03-T2CE) submission status for 2018 data ("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 II (formulaire-ST03-T2CE) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou prises zéro).
 Tabla 3. Estado de la presentación de los datos de captura y esfuerzo de la Tarea II (Formulario ST03-T2CE) para los datos de 2018 ("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): 2019-08-01													
			Tuna (major sp.)										Small tuna	Sharks (major sp.)		
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT	(any of 13 sp)	BSH	POR	SMA
CP	ALBANIA	Albania			0											
	ALGÉRIE	Algerie														
	ANGOLA	Angola														
	BARBADOS	Barbados	1	1		1	1	1		1	1	1	1	1		
	BELIZE	Belize	1	1			1	1		1		1		1		1
	BRAZIL	Brazil	1	1		0	0	1		1	0	1	1	0		0
	CANADA	Canada	1	1	1	1				1	1	1	1	1	1	1
	CAP-VERT	Cape Verde		0				0				0	0			
	CHINA PR.	China PR	1	1	1	1	1		1	1	1	1		1		
	CÔTE D'IVOIRE	Côte d'Ivoire														
	CURAÇAO	Curaçao	1	1				1				1	1			
	EGYPT	Egypt			1											
	EL SALVADOR	El Salvador		0				0				0	0			
	EUROPEAN UNION	EU.Bulgaria											1			
		EU.Croatia	0		0					0			0			
		EU.Cyprus	1		1					1						
		EU.Denmark														
		EU.España	1	1	1			1		1		1	1	1		
		EU.France	1	1	-0.2			1				1	1	1		
		EU.Germany											0			
		EU.Greece	1	1	1					1						
		EU.Ireland	-0.2		-0.2					-0.2						
		EU.Italy														
		EU.Latvia														
		EU.Lithuania														
		EU.Malta	1		1			1		1			1	1		
		EU.Netherlands														
		EU.Portugal	1	1	1	1	1	1	1	1		1	1	1		1
		EU.United Kingdom											1	1		
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon														
	GABON	Gabon														
	GAMBIA	Gambia														
	GHANA	Ghana		1		-0.2	-0.2	1		-0.2		1		-0.2		
	GRENADA	Grenada														
	GUATEMALA	Guatemala		1				1				1	1			
	GUINEA BISSAU	Guinea Bissau														
	GUINEA ECUATORIAL	Guinea Ecuatorial														
	GUINÉE REP.	Guinée Rep.														
	HONDURAS	Honduras														
	ICELAND	Iceland														
	JAPAN	Japan	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
	LIBERIA	Liberia														
	LIBYA	Libya														
	MAROC	Maroc		1	1					1		1		1		1
	MAURITANIA	Mauritania														
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1			1
	NAMIBIA	Namibia	1	1				1				1				
	NICARAGUA	Nicaragua														
	NIGERIA	Nigeria														
	NORWAY	Norway			1											
	PANAMA	Panama	0	0				0				0	0			
	PHILIPPINES	Philippines														
	RUSSIA	Russian Federation						1					1			
	S. TOMÉ E PRINCEPE	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
	St VINCENT & GRENADINES	St. Vincent and Grenadines	1	1		1	1	1	1	1		1	1			1
	SYRIA	Syria			1											
	TRINIDAD & TOBAGO	Trinidad and Tobago	1	1			1			1		1	1	1		1
	TUNISIE	Tunisie			1											
	TURKEY	Turkey			1					1						
	UNITED KINGDOM (O.Territories)	UK.Bermuda														
		UK.British Virgin Islands														
		UK.Sta Helena		1		1		1				1	1			1
		UK.Turks and Caicos														
	UNITED STATES	U.S.A.	1	1	1	1	1	1		1	1	1	1	1	1	1
	URUGUAY	Uruguay														
	VANUATU	Vanuatu														
	VENEZUELA	Venezuela														
NCC	Bolivia	Bolivia														
	Chinese Taipei	Chinese Taipei	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, 14 flags): EU.Latvia, FR.SP Miquelon, Honduras, Iceland, Nicaragua, Nigeria, Sierra Leone, UK.BV Islands, UK.Turks & Caicos, Uruguay, Vanuatu, Bolivia, Costa Rica, Suriname
 NO TARGETING ACTIVITIES (some by-catch): EU.Denmark, EU.Germany, EU.Lithuania, EU.Netherlands, and, EU.United Kingdom.
 ERRORS/UNDER REVISION: Côte d'Ivoire, EU-France, EU-España, Guatemala, Panama, Senegal, etc.

Table 4. Task II size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2018 data ("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 II (formulaires: ST04-T2SZ - échantillons observés; ST05-CAS: prise par taille) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou pas d'échantillonnage).
 Tabla 4. Estado de la presentación de los datos de talla de la Tarea II (formularios: ST04-T2SZ - muestras observadas; ST05-CAS: captura por talla) para los datos de 2018 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o sin muestreo).

			Deadline (+1 day tolerance): 2019-08-01																
Status	Party	Flag	Tuna (major sp.)										Small tuna		Sharks (major sp.)				
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT	(any of 13 sp)		BSH	POR	SMA		
CP	ALBANIA	Albania																	
	ALGÉRIE	Algerie			0														
	ANGOLA	Angola																	
	BARBADOS	Barbados										1							
	BELIZE	Belize	1	1						1		1			1				
	BRAZIL	Brazil	1	1				1		1		1			1				
	CANADA	Canada	1	1	1					1	1	1				1	1		
	CAP-VERT	Cape Verde		1				1				0		0					
	CHINA PR.	China PR	1	1	1					1		1			1				
	CÔTE D'IVOIRE	Côte d'Ivoire		-0.2															
	CURAÇAO	Curaçao	1	1				1				1		1					
	EGYPT	Egypt																	
	EL SALVADOR	El Salvador			0				0				0		0				
	EUROPEAN UNION	EU.Bulgaria																	
		EU.Croatia				1						1							
		EU.Cyprus		1		1						1							
		EU.Denmark																	
		EU.España		1	1	1	1	1	1	1	1	1	1	1	1	1		1	
		EU.France		1	1														
		EU.Germany																	
		EU.Greece		1			1						1						
		EU.Ireland		1															
		EU.Italy		1				1					1			1	1		
		EU.Latvia																	
		EU.Lithuania																	
		EU.Malta					1						1			1			
		EU.Netherlands																	
		EU.Portugal		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
		EU.United Kingdom																	
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon																	
	GABON	Gabon																	
	GAMBIA	Gambia																	
	GHANA	Ghana																	
	GRENADA	Grenada																	
	GUATEMALA	Guatemala			1				1				1		1				
	GUINEA BISSAU	Guinea Bissau																	
	GUINEA ECUATORIAL	Guinea Ecuatorial																	
	GUINÉE REP.	Guinée Rep.																	
	HONDURAS	Honduras																	
	ICELAND	Iceland																	
	JAPAN	Japan		1	1	1				1			1						
	KOREA REP.	Korea Rep.		1	1	1			1			1		1		1	1	1	
	LIBERIA	Liberia										-0.2							
	LIBYA	Libya																	
	MAROC	Maroc				1						1		1		1	1		1
	MAURITANIA	Mauritania																	
	MEXICO	Mexico		1	1	1	1	1	1	1		1	1	1	1				
	NAMIBIA	Namibia		1	1							1					1		1
	NICARAGUA	Nicaragua																	
	NIGERIA	Nigeria																	
NORWAY	Norway					1													
PANAMA	Panama		0		0				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		0		0						0		1			0		0	
St VINCENT & GRENADINES	St. Vincent and Grenadines		0		-0.2								0						
SYRIA	Syria																		
TRINIDAD & TOBAGO	Trinidad and Tobago				1								1						
TUNISIE	Tunisie					-0.2													
TURKEY	Turkey		1			1					1								
UNITED KINGDOM (O.Territories)	UK.Bermuda																		
	UK.British Virgin Islands																		
	UK.Sta Helena				1				1				1		1				
	UK.Turks and Caicos																		
	UNITED STATES	U.S.A.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
URUGUAY	Uruguay																		
VANUATU	Vanuatu																		
VENEZUELA	Venezuela																		
NCC	Bolivia	Bolivia																	
	Chinese Taipei	Chinese Taipei		1	1		1	1	1	1	1	1	1		1		1		
	Costa Rica	Costa Rica																	
	Guyana	Guyana																	
	Suriname	Suriname																	

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 ERRORS/UNDER REVISION: Côte d'Ivoire, EU-France, EU-España, Guatemala, Panama, Senegal, etc.

Table 5. Consolidated view of the Report Cards for 2018 (Tables 1 to 4, where at least one cell is not empty). The order of priority given to the colours on the consolidation was: orange/yellow/green.

Tableau 5. Vision consolidée des cartes de déclaration pour 2018 (tableaux 1 à 4, où au moins une cellule n'est pas vide). L'ordre de priorité donné aux couleurs dans la consolidation est : orange/jaune/vert.

Tabla 5. Visión consolidada de los catálogos de comunicación para 2018 (Tablas 1 a 4, con al menos hay una celda vacía). El orden de prioridad asignado a los colores en la consolidación es: naranja/amarillo/verde.

Status	Party	Flag	Task I		Task II	
			T1FC	T2NC	T2CE	T2SZ/CS
CP	ALBANIA	Albania	0	0	0	
	ALGÉRIE	Algerie	1	-0.2		0
	ANGOLA	Angola		-0.2		
	BARBADOS	Barbados	-0.2	1	1	1
	BELIZE	Belize	1	1	1	1
	BRAZIL	Brazil	1	1	0	1
	CANADA	Canada	-0.2	1	1	1
	CAP-VERT	Cape Verde	0	1	0	0
	CHINA PR.	China PR	1	1	1	1
	CÔTE D'IVOIRE	Côte d'Ivoire	1	1		-0.2
	CURAÇAO	Curaçao	1	1	1	1
	EGYPT	Egypt	1	1	1	
	EL SALVADOR	El Salvador	1	1	0	0
	EUROPEAN UNION	EU.Bulgaria	1	1	1	
		EU.Croatia	1	1	0	1
		EU.Cyprus	1	-0.2	1	1
		EU.Denmark		1		
		EU.España	1	0	1	1
		EU.France	1	-0.2	-0.2	1
		EU.Germany	0	0	0	
		EU.Greece	1	1	1	1
		EU.Ireland	1	-0.2	-0.2	1
		EU.Italy	1	1		1
		EU.Latvia				
		EU.Lithuania		0		
		EU.Malta	1	1	1	1
		EU.Netherlands	1	1		
		EU.Portugal	1	0	1	1
		EU.United Kingdom	1	1	1	
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon				
	GABON	Gabon		-0.2		
	GAMBIA	Gambia				
	GHANA	Ghana	1	1	-0.2	
	GRENADA	Grenada				
	GUATEMALA	Guatemala	1	1	1	1
	GUINEA BISSAU	Guinea Bissau				
	GUINEA ECUATORIAL	Guinea Ecuatorial		0		
	GUINÉE REP.	Guinée Rep.				
	HONDURAS	Honduras				
	ICELAND	Iceland				
	JAPAN	Japan	1	1	1	1
	KOREA REP.	Korea Rep.	1	1	1	1
	LIBERIA	Liberia		0		-0.2
	LIBYA	Libya	1	1		
	MAROC	Maroc	1	1	1	1
	MAURITANIA	Mauritania		0		
	MEXICO	Mexico	1	1	1	1
	NAMIBIA	Namibia	1	1	1	1
	NICARAGUA	Nicaragua				
	NIGERIA	Nigeria				
	NORWAY	Norway	1	1	1	1
	PANAMA	Panama		-0.2	0	0
	PHILIPPINES	Philippines				
	RUSSIA	Russian Federation	1	1	1	1
	S. TOMÉ E PRINCEPE	S. Tomé e Príncipe				
	SENEGAL	Senegal	1	0	1	1
	SIERRA LEONE	Sierra Leone				
	SOUTH AFRICA	South Africa	1	1	1	0
	St VINCENT & GRENADINES	St. Vincent and Grenadines	1	0	1	-0.2
	SYRIA	Syria	1	1	1	
	TRINIDAD & TOBAGO	Trinidad and Tobago	1	1	1	1
	TUNISIE	Tunisie	0	1	1	-0.2
	TURKEY	Turkey	1	1	1	1
	UNITED KINGDOM (O.Territories)	UK.Bermuda	-0.2	1		
		UK.British Virgin Islands				
		UK.Sta Helena	1	1	1	1
		UK.Turks and Caicos				
	UNITED STATES	U.S.A.	1	1	1	1
	URUGUAY	Uruguay				
	VANUATU	Vanuatu				
	VENEZUELA	Venezuela				
NCC	Bolivia	Bolivia				
	Chinese Taipei	Chinese Taipei	1	1	1	1
	Costa Rica	Costa Rica	-0.2			
	Guyana	Guyana	-0.2	0		
	Suriname	Suriname				

NOTES: NO FISHING ACTIVITY (flags in green, 14 flags): EU.Latvia, FR.SP Miquelon, Honduras, Iceland, Nicaragua, Nigeria, Sierra Leone, UK.BV Islands, UK.Turks & Caicos, Uruguay, Vanuatu, Bolivia, Costa Rica, Suriname

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

ERRORS/UNDER REVISION: Côte d'Ivoire, EU-France, EU-España, Guatemala, Panama, Senegal, etc.

Table 6. SCRS scorecard on Task I/II 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 des tâches I et II pour toutes les principales espèces relevant de l'ICCAT, par stock/région (méthodologie détaillée dans SCRS/2019/045).

SCORECARD on Task I/II availability for the main ICCAT fisheries (final year: 2018)

FisheryID	Spc. Group	Species	Species/stock	SCORES (by time series)			N. flag fisheries ranked			Change (%) against period 1988-17 (30 yrs)
				30 years (1989-18)	20 years (1999-18)	10 years (2009-18)	30 years (1989-18)	20 years (1999-18)	10 years (2009-18)	
1	Temperate	ALB	ALB-N stock	7.14	7.18	7.48	12	14	12	1%
2			ALB-S stock	5.54	6.10	5.84	10	9	10	1%
3			ALB-M stock	2.10	3.00	6.10	12	9	6	11%
4		BFT	BFT-E stock (ATE region)	5.85	7.00	9.01	10	8	7	3%
5			BFT-E stock (MED region)	3.20	4.13	5.59	28	21	17	2%
6			BFT-W stock	8.53	8.76	9.67	9	8	7	1%
7	Tropicals	BET	BET-A stock (AT + MD)	6.46	7.24	7.88	28	28	26	-1%
8		YFT	YFT-E region	6.54	7.44	8.35	23	21	16	1%
9			YFT-W region	4.60	4.90	5.12	24	24	22	0%
10		SKJ	SKJ-E stock	6.88	7.87	8.28	18	16	15	-2%
11			SKJ-W stock	4.53	4.53	4.33	4	3	3	-3%
12	SWO & billfish	SWO	SWO-N stock	7.55	8.52	8.65	12	11	10	1%
13			SWO-S stock	6.80	7.17	6.93	10	10	10	4%
14			SWO-M stock	3.97	4.76	6.44	12	11	9	2%
15		BUM	BUM-A stock (AT + MD)	4.13	4.00	3.68	29	29	31	1%
16		WHM	WHM-A stock (AT + MD)	5.33	5.41	5.47	17	18	16	1%
17		SAI	SAI-E stock	3.00	3.51	3.83	14	12	11	3%
18			SAI-W stock	3.54	3.54	3.99	18	16	13	-2%
19		SPF	SPF-E stock	2.17	5.03	5.17	3	4	3	7%
20			SPF-W stock	3.52	3.85	3.64	6	6	6	4%
21	Major sharks	BSH	BSH-N region	3.52	4.80	7.10	5	4	4	7%
22			BSH-S region	3.91	5.71	7.02	6	6	6	6%
23		POR	POR-N region	1.39	1.81	3.73	9	15	13	6%
24			POR-S region	0.58	1.08	2.95	6	6	4	0%
25		SMA	SMA-N region	2.67	3.99	5.95	6	6	7	8%
26			SMA-S region	3.54	5.79	7.36	7	8	7	9%
1	Small tunas	BLF	A+M	2.93	3.66	3.98	15	13	11	-7%
2		BLT	A+M	0.80	1.36	2.31	21	20	17	9%
3		BON	ATL	1.90	2.55	3.09	38	31	24	6%
4			MED	0.82	0.94	1.27	8	8	7	-4%
5		BRS	A+M	0.92	1.38	2.00	3	3	2	0%
6		DOL	A+M	1.39	1.99	2.89	15	16	16	10%
7		FRI	ATL	4.32	5.39	6.11	28	25	21	2%
8		KGM	A+M	1.13	1.24	0.50	7	7	3	3%
9		LTA	ATL	3.66	4.69	5.38	32	26	21	6%
10			MED	0.46	0.80	0.81	18	16	12	5%
11		MAW	A+M	2.02	2.01	1.85	20	15	12	-6%
12		SSM	A+M	0.58	0.00	0.00	4	3	2	-18%
13		WAH	A+M	1.65	2.06	2.14	36	32	22	2%

Table 7. Summary of the number of tags applied and recovered by flag CPC between 2018-09-08 and 2019-09-16 (flag CPCs that have carried out tagging are indicated in the columns and flag CPCs that have recovered are indicated in the rows). 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 de marques apposées et récupérées par CPC de pavillon entre 2018-09-08 et le 2019-09-16 (les CPC de pavillon qui ont marqué sont indiquées dans les colonnes et les CPC de pavillon qui ont récupéré sont indiquées dans les files). Les montants 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 puestas y recuperadas por CPC de pabellón entre 2018-09-08 y el 2019-09-16 (CPC de pabellón que han marcado indicadas en columnas y CPC de pabellón que han recuperado indicados en filas). Las cifras mostradas incluyen los datos recibidos directamente por ICCAT, así como los aportados por los proyectos GBYP y AOTTP.

	Brasil	Canada	Côte D'Ivoire	EU.Denmark	EU.España	EU.France	EU.Ireland	EU.Italy	EU.Portugal	EU.United Kingdom	Korea, Republic of	Norway	S. Tomé e Príncipe	UK.Sta. Helena	Uruguay	U.S.A.	South Africa	UNCL.FLEETS	Total
Brasil	652				41										27			1	721
Canada																		4	4
Cape Verde					185				11										196
Côte D'Ivoire	16		2325		3970				19				69	13					6412
EU.España		4			959		16		88	24					8	41	1	29	1170
EU.France					5													6	11
EU.Germany																		1	1
EU.Greece																		1	1
EU.Italy								1										5	6
EU.Malta					1													14	15
EU.Portugal					128		4		299	1						4			436
Ghana	6		25		336				1				16	1					385
Japan															13			2	15
Kiribati					1														1
Maroc									2										2
Panama					9														9
S. Tomé e Príncipe													15						15
Senegal	1		6		7053				55					1					7116
South Africa																	5		5
Tunisie																		2	2
Turkey																		1	1
U.S.A.																2		6	8
UK.Sta. Helena														740					740
Uruguay															16				16
UNCL.FLEETS	1				58				1					13		1			74
Not Recovered	29447	573	9301	91	42032	9	41	133	7689	10	3	1	6946	4274	4641	609	190	3	105993
Total	30123	577	11657	91	54778	9	61	134	8165	35	3	1	7046	5042	4705	657	196	75	123355

Table 8. Summary of the conventional tags distributed by the Secretariat between 2018-09-08 and 2019-10-18
Tableau 8. Résumé des marques conventionnelles distribuées par le Secrétariat entre le 2018-09-08 et le 2019-10-18.
Tabla 8. Resumen de las marcas convencionales distribuidas por la Secretaría entre 2018-09-08 y el 2019-10-18.

TagAlfa	From	To	Quantity	DateSent	Institution	Principal Investigator	Country
BYP	29726	29775	50	2019-01-15	The University of Maine/Gulf of Maine Research Institute	Walter Golet	USA
BYP	29776	29875	100	2019-02-26	National Institute of Marines Sciences and Technologies (INSTM)	Rafik Zarrad	TUNISIA
BYP	63601	63650	50	2019-02-26	National Institute of Marines Sciences and Technologies (INSTM)	Rafik Zarrad	TUNISIA
BYP	78801	78850	50	2019-02-26	National Institute of Marines Sciences and Technologies (INSTM)	Rafik Zarrad	TUNISIA
SEC	50000	50049	50	2019-03-29	Zoológico de Barcelona	Pablo Cermeño	EU.ESPAÑA
BYP	29876	30000	125	2019-04-24	Zoológico de Barcelona	Pablo Cermeño	EU.ESPAÑA
BYP	30001	30025	25	2019-04-24	Zoológico de Barcelona	Pablo Cermeño	EU.ESPAÑA
BYP	30026	30625	600	2019-05-23	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
BYP	63651	63950	300	2019-05-23	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
BYP	78851	79150	300	2019-05-23	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
SEC	80000	80049	50	2019-05-23	IFREMER	Francois Poisson	EU.FRANCE
BYP	30626	30925	300	2019-05-23	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
BYP	30926	31125	200	2019-05-27	Portuguese Ocean and Atmosphere Institute (IPMA)	Pedro Lino	EU.PORTUGAL
BYP	31126	31525	400	2019-06-26	DIRECTORATE OF FISHERIES	Maja K. Rodriguez Brix	NORWAY
BYP	79151	79950	800	2019-06-26	Government of Canada (Fisheries and Oceans)	Alex Dalton	CANADA
BYP	31526	31675	150	2019-07-10	Università di Genova	Fulvio Garibaldi	EU.ITALY
BYP	31676	31875	200	2019-07-16	The University of Maine/Gulf of Maine Research Institute	Walter Golet	USA
BYP	79951	80050	100	2019-08-02	Technical University of Denmark	Kim Aarestrup	EU.DENMARK
SEC	11075	11574	500	2019-09-25	Dirección Nacional de Recursos Acuáticos - DINARA	Rodrigo Forselledo	URUGUAY
SEC	50050	50549	500	2019-09-25	Dirección Nacional de Recursos Acuáticos - DINARA	Rodrigo Forselledo	URUGUAY
BYP	31876	31975	100	2019-10-17	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY

Table 9. Summary of information provided in form ST09-NatObProg on by-catch species (including discards) by CPCs for 2018. Values are in numbers and weight in kg
 Tableau 9. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de prise accessoire (rejets y compris) par CPC au titre de 2018. Les valeurs sont exprimées en kg et nombre.
 Table 9. Información de 2018 sobre especies de captura fortuita (descartes incluidos) proporcionada por las CPC en el formulario ST09-NatObProg. Los valores están expresados en kg y en número.

Row Labels	1-Tuna (major sp.)	2-Tuna (small)	3-Tuna (other)	4-Mammals	4-Sharks (major)	5-Sharks (other)	7-Turtles	8-Seabirds	TOTAL
n									
Canada	5125		1	2	5882	508	8	0	11528
China PR	42296	425	28		4545	321			47615
Chinese Taipei	85361	1343	641	0	4212	284	0	0	91841
Curaçao	396	8122	12		3	4	0		8537
El Salvador	0	7869	214	0	0	0	0		8083
EU.Cyprus	706	28			1	3			738
EU.España	6496	10691	7	1	259	29	1	1	17485
EU.France	607	9488	4		0	7	0		10106
EU.Malta	538	1			4		2		545
EU.Portugal	2016	7	1		8330	216	47		10617
Ghana	0		0						0
Guatemala	112	3227			0	8	0		3347
Japan						1282	388	383	2053
Korea Rep.	8245		9958		1164				19367
Maroc	877				538				1415
Namibia	0								0
Norway	56								56
South Africa						34	10	5	49
Tunisie	8713								8713
Turkey	355								355
U.S.A.	16371	3510	0	0	679	46	0	0	20606
kg									
Canada	279288		400	0	201265	61077.6	1715	4	603999.6
China PR	1247511	3868	605		32592	0			1284576
Chinese Taipei	2373005	15125.5	12060	0	97966.8	1552	0	0	2499709.3
Curaçao	43494	85483	711		195	228	0		130111
El Salvador	0	88638	21708	0	0	0	0		110346
EU.Cyprus	5448.1	118			9	39			5614.1
EU.España	227532.73	132010.03	186	200	3127.1	2760	25	1	365841.86
EU.France	46034	71930	129		0	246	0		118339
EU.Malta	26867.1	13			40		0		26920.1
EU.Portugal	0	0	0		0	0	0		0
Ghana	91502570		2972430						94475000
Guatemala	14732	36947			0	303	0		51982
Japan						0	0	0	0
Korea Rep.	658501		636606		34968				1330075
Maroc	149664				13945				163609
Namibia	295252								295252
Norway	10129								10129
South Africa						0	0	0	0
Tunisie	1108067								1108067
Turkey	10317.9								10317.9
U.S.A.	0	0	0	0	0	0	0	0	0
DL									
Canada	570		1	1	5104	292	8	0	5976
China PR	18105	141	11		3301	325			21883
Chinese Taipei	288	70	3	0	1322	156	9	3	1851
Curaçao	1	9	0		40	2485	224		2759
El Salvador	0	36	41	13	60	3982	262		4394
EU.Cyprus	39	0			0	0			39
EU.España	620	91	0	1	29	1644	251	0	2636
EU.France	5	1264	0		23	1834	187		3313
EU.Malta	0	0			0		2		2
EU.Portugal	8	0	0		46	70	44		168
Ghana	0		0						0
Guatemala	19	0			13	1259	49		1340
Japan						527	151	6	684
Korea Rep.	0		0		0				0
Maroc	0				8				8
Namibia	0								0
Norway	0								0
South Africa						29	10	0	39
Tunisie	0								0
Turkey	0								0
U.S.A.	2515	913	185	22	1466	1753	39	2	6895
DD									
Canada	527		0	0	468	44	0	0	1039
China PR	15522	248	23		852	140			16785
Chinese Taipei	2841	212	72	4	4952	424	12	0	8517
Curaçao	204487	273946	20976		6	1419	1		500835
El Salvador	42126	325459	277	0	8	812	0		368682
EU.Cyprus	0	0			0	0			0
EU.España	29763	146143	663	0	263	725	0	1	177558
EU.France	47537	127104	0		11	1053	0		175705
EU.Malta	538	1			4		0		543
EU.Portugal	48	2	0		11	132	3		196
Ghana	0		0						0
Guatemala	33582	58252			1	1014	0		92849
Japan						744	227	377	1348
Korea Rep.	0		0		0				0
Maroc	5				0				5
Namibia	0								0
Norway	0								0
South Africa						5	0	5	10
Tunisie	25								25
Turkey	0								0
U.S.A.	2414	735	172	10	1189	1765	26	2	6313
Total n	178270	44711	10866	5	25617	2742	456	389	263056
Total kg	97998413	434133	3644835	60450	384108	66206	1740	5	102589889
Total DL	22170	2524	241	37	11412	14356	1236	11	51987
Total DD	379415	932102	22183	14	7765	8277	269	385	1350410

Tabla 10. Información facilitada sobre desembarques (T1NC) de especies de captura fortuita por CPC para 2019.

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Table 11. Sea turtle species dead discard (DD) and live discards (DL) data reported on form ST09-NatObProg by CPCs and cooperating parties for 2018.

Tableau 11. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de tortues marines (rejets y compris) par CPC au titre de 2018. Les valeurs sont exprimées en kg et nombre.

Table 11. Información de 2018 sobre especies de tortugas marinas (descartes incluidos) proporcionada por las CPC en el formulario ST09-NatObProg. Los valores están expresados en kg y en número.

	Green turtle	Hawksbill turtle	Kemp's ridley turtle	Leatherback turtle	Loggerhead turtle	Marine turtles nei	Olive Ridley turtle	TOTAL
n								
Canada				6	2			8
Chinese Taipei	0			0	0		0	0
Curaçao	0	0	0	0	0	0	0	0
El Salvador	0	0	0	0	0	0	0	0
EU.España	0	0	0	0	0	0	1	1
EU.France	0	0	0	0	0	0	0	0
EU.Malta					2			2
EU.Portugal				45	2			47
Guatemala		0		0	0	0	0	0
Japan				81	216	30	61	388
South Africa		1		5	4			10
U.S.A.				0	0			0
kg								
Canada				1640	75			1715
Chinese Taipei	0			0	0		0	0
Curaçao	0	0	0	0	0	0	0	0
El Salvador	0	0	0	0	0	0	0	0
EU.España	0	0	0	0	0	0	25	25
EU.France	0	0	0	0	0	0	0	0
EU.Malta					0			0
EU.Portugal				0	0			0
Guatemala		0		0	0	0	0	0
Japan				0	0	0	0	0
South Africa		0		0	0			0
U.S.A.				0	0			0
DL								
Canada				6	2			8
Chinese Taipei	2			6	0		1	9
Curaçao	18	7	4	4	28	1	162	224
El Salvador	47	11	4	1	21	4	174	262
EU.España	11	11	3	5	74	6	141	251
EU.France	7	8	4	7	25	6	130	187
EU.Malta					2			2
EU.Portugal				42	2			44
Guatemala		4		3	7	1	34	49
Japan				68	60	12	11	151
South Africa		1		5	4			10
U.S.A.				31	8			39
DD								
Canada				0	0			0
Chinese Taipei	2			5	2		3	12
Curaçao	0	0	0	0	0	0	1	1
El Salvador	0	0	0	0	0	0	0	0
EU.España	0	0	0	0	0	0	0	0
EU.France	0	0	0	0	0	0	0	0
EU.Malta					0			0
EU.Portugal				3	0			3
Guatemala		0		0	0	0	0	0
Japan				9	155	13	50	227
South Africa		0		0	0			0
U.S.A.				17	9			26
Total n	0	1	0	137	226	30	62	456
Total kg	0	0	0	1640	75	0	25	1740
Total DL	85	42	15	178	233	30	653	1236
Total DD	2	0	0	34	166	13	54	269

Table 12. Seabird by-catch data reported on form ST09-NatObProg by CPCs for 2018.

Tableau 12. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de d'oiseaux marins (rejets y compris) par CPC au titre de 2018. Les valeurs sont exprimées en kg et nombre.

Table 12. Información de 2018 sobre especies de aves marinas (descartes incluidos) proporcionada por las CPC en el formulario ST09-NatObProg. Los valores están expresados en kg y en número.

Row Labels	Albatross s nei	Antarctic giant petrel	Atlant. yellow- nosed albatross	Audouin's gull	Black- browed albatross	Cory's shearwater r	Great shearwater r	Grey petrel	Grey- headed albatross	Herring gull	Light- mantled sooty albatross	Northern fulmar	Northern gannet	Shy albatross	Sooty albatross	Spectacle d petrel	Wanderin g albatross	White- chinned petrel	Grand Total
n																			
Canada							0												0
Chinese Taipei							0												0
EU.España				1															1
Japan	69	6	1		43	1	52	29	107		6	6	13		15	9	3	23	383
South Africa																		4	5
U.S.A.										0		0	0	1					0
kg																			
Canada							4												4
Chinese Taipei							0												0
EU.España				1															1
Japan	0	0	0		0	0	0	0	0		0	0	0		0	0	0	0	0
South Africa														0				0	0
U.S.A.										0		0	0						0
DL																			
Canada							0												0
Chinese Taipei							3												3
EU.España				0															0
Japan	1	0	0		0	0	2	0	1		0	0	1		0	0	1	0	6
South Africa														0				0	0
U.S.A.										1		0	1						2
DD																			
Canada							0												0
Chinese Taipei							0												0
EU.España				1															1
Japan	68	6	1		43	1	50	29	106		6	6	12		15	9	2	23	377
South Africa															1			4	5
U.S.A.										1		1	0						2
Total n	69	6	1	1	43	1	52	29	107	0	6	6	13	1	15	9	3	27	389
Total kg	0	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	5
Total DL	1	0	0	0	0	0	5	0	1	1	0	0	2	0	0	0	1	0	11
Total DD	68	6	1	1	43	1	50	29	106	1	6	7	12	1	15	9	2	27	385

Tabla 13. Revisiones históricas de la captura nominal de Tarea I (t) por pabellón, especie y año, que han sido integradas en el sistema de bases de datos de ICCAT (con un documento SCRS).

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				decade/year																																				Notes	
				1950	1960	1970	1980	1990										2000										2010													
SpeciesGrp	Species	Stock	Flag	(decade::SUM)	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
Tuna (small)	BLF	A+M	U.S.A.																																				551	WG-SMT meeting revision (see report): and - USA small tuna revision (SCRS/2018/053) (WG work cary overs elimination work) ADOPTED	
	BON	ATL	U.S.A.																																				63		
	DOL	A+M	U.S.A.																																				7424		
	KGM	A+M	U.S.A.																																				2374		
	LTA	ATL	U.S.A.																																				7		
	MAW	A+M	Gabon																																						943
	SSM	A+M	U.S.A.																																						7
WAH	A+M	U.S.A.																																						943	
		UK.Sta Helena																																						16	
Sharks (major)	BSH	ATN	U.S.A.																																					44	
	ATS	U.S.A.																																						44	
	POR	ATN	Barbados																																						
			Chinese Taipei																																						
			Cuba																																						
			EU.Denmark	#####	2700	1100																																			
			EU.Germany																																						
			EU.Ireland																																						
			EU.Portugal																																						
			EU.Sweden																																						
			EU.United Kingdom																																						
			Faroe Islands																																						
			FR.St Pierre et Miquelon																																						
			Iceland																																						
			Japan																																						
			Korea Rep.																																						
			Norway																																						
			U.S.A.																																						
			Venezuela																																						
			ATS																															</							

WG-SMT meeting revision (see report):
and
- USA small tuna revision (SCRS/2018/053)
(WG work cary overs elimination work)
ADOPTED

WG-Sharks meeting
(decision to include in ICCAT-DB the POR
catches from the 2019 stock assessment
(SCRS/2009/014)
ADOPTED
and
USA sharks revision (SCRS/2019/XXX)
PENDING

Tabla 14. Capturas de Tarea I (t) por pabellón, especie, flota y año, que no fueron integradas en el sistema de bases de datos de ICCAT debido a diversas razones. Estas series requieren la orientación y aprobación del SCRS.

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Tabla 15. CPC del pabellón que han comunicado capturas “cero” en el nuevo subformulario ST02B (del ST02-T1NC) de capturas nominales de Tarea I para 2018, por especie/stock principal.

		Tuna (major sp.)																	Tuna (small)						Sharks (major)			Sharks (other)								
		ALB			BET	BFT		BUM	SAI		SKJ		SPF		SWO			WHM	YFT		FRI	BON	BRS	KGM	LTA	SSM	BSH	POR	SMA	ALV	BTH	FAL	OCS	SPK	SPL	SPZ
Status	Flag	ALB-M	ALB-N	ALB-S	BET-A	BFT-E	BFT-W	BUM-A	SAI-E	SAI-W	SKJ-E	SKJ-W	SPF-E	SPF-W	SWO-M	SWO-N	SWO-S	WHM-A	YFT-E	YFT-W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CP	Albania	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Algerie																										✓									
	Angola				✓	✓	✓				✓	✓								✓	✓															
	Barbados	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Brazil	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Canada	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Cape Verde											✓													✓											
	Côte d'Ivoire	✓	✓	✓	✓		✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Egypt						✓																				✓	✓	✓	✓	✓	✓	✓	✓	✓	
	El Salvador	✓	✓	✓		✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Denmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.España	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.France	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Germany	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Greece	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Ireland	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Lithuania	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Malta	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Netherlands	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Portugal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.United Kingdom		✓			✓	✓		✓	✓				✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	FR.St Pierre et Miquelon		✓			✓		✓									✓				✓						✓		✓							
	Ghana	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Guinea Ecuatorial	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Japan	✓				✓			✓				✓		✓				✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	
	Korea Rep.		✓	✓	✓	✓	✓		✓	✓		✓					✓	✓		✓	✓				✓		✓	✓	✓							
	Libya	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Maroc		✓			✓	✓		✓	✓		✓		✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Mauritania	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Mexico		✓			✓		✓							✓					✓	✓		✓		✓		✓						✓			
	Norway	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Panama	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Russian Federation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Senegal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	South Africa	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Syria	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Trinidad and Tobago		✓			✓					✓						✓				✓			✓	✓	✓		✓								
	Tunisie	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Turkey	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
U.S.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
UK.Bermuda	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
UK.Sta Helena					✓			✓			✓								✓		✓															
UK.Turks and Caicos																			✓									✓								
NCC	Chinese Taipei	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Costa Rica	✓		✓		✓	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Guyana	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
NCO	Saint Kitts and Nevis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Table 16. Summary of Task II catch & effort historical series updated during 2018 (by flag, gear, time-area stratification and year) and already in the ICCAT-DB system.

Tableau 16. Résumé des séries historiques de prise et effort de Tâche II mises à jour en 2018 (par pavillon, engin, stratification spatio-temporelle et année) et déjà saisies dans le système ICCAT-DB.

Tabla 16. Resumen de las series históricas de captura y esfuerzo de Tarea II actualizadas durante 2018 (por pabellón, arte, estratificación espacio-temporal y año) y ya introducidas en el sistema ICCAT-DB.

						decade/year					Remarks
						2010					
Flag	GearCode	FleetCode	TStrata	GeoStrata	ProductTypeCode	2011	2012	2013	2014		
Albania	PS	ALB	mm	1x1	LW				1	Historical recovery (pending)	
Ghana	BB	GHA-GH-ETRO-A	mm	1x1	LW		1	1	1	SCRS/2019/145 update (adopted)	
	PS	GHA-GH-ETRO-A	mm	1x1	LW		1	1	1		
		GHA-GH-ETRO-P	mm	1x1	LW		1	1	1		

Tabla 17. Resumen de las series históricas de información sobre talla de Tarea II actualizadas durante 2018 (número de ejemplares por especie, pabellón, arte, estratificación espacio-temporal) ya en el sistema ICCAT-DB.

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Table 18. Bluefin tuna catches (t) report from the Bluefin Catch Document Program (e-BCD, 2017-2019). Updated as of 2019-10-22.

Tableau 18. Déclaration de capture du thon rouge (t) du programme de documentation des captures de thon rouge (e-BCD, 2017-2019). Actualisé au 2019-10-22.

Tabla 18. Informes de capturas (t) de atún rojo del Programa de documentación de capturas de atún rojo (e-BCD, 2017-2019). Actualizado a 2019-10-22.

Fishing year	Month	Fishing Flag														TOTAL
		ALBANIA	ALGÉRIE	CHINA REP	EGYPT	EUROPEAN UNION	ICELAND	JAPAN	KOREA REP.	LIBYA	MAROC	NORWAY	SYRIA	TUNISIE	TURKEY	
2017	1					28										28
2017	2					85										85
2017	3					320										320
2017	4					216										216
2017	5					7100				383	1621			1149	356	10610
2017	6	56	1038		124	3321				1247	336		57	605	1154	7936
2017	7					566	0				144				1	712
2017	8					431					7	13			0	452
2017	9					395					33	37			1	466
2017	10				42	458		1736	143		0	1			2	2382
2017	11				22	74		170	14							279
2017	12					80									0	80
2017 Total		56	1038	64	124	13074	0	1905	157	1631	2141	51	57	1754	1515	23567
2018	1					40	0									40
2018	2					61										61
2018	3					220						0			0	221
2018	4					522									0	522
2018	5					8529				65	1781			764	290	11429
2018	6	100	1300		181	4682				1729	661		66	1328	982	11029
2018	7					361					16				2	379
2018	8					426					14	0			5	446
2018	9					346			6		38	11			1	402
2018	10				79	190		1649	174		55	1			1	2148
2018	11					87		677							3	766
2018	12					62										62
2018 Total		100	1300	79	181	15526	0	2326	179	1795	2565	12	66	2092	1284	27504
2019	1				0	69	0	0								69
2019	2					131										131
2019	3					367						0				367
2019	4					448									1	449
2019	5				59	6185					1823		72	241	425	8807
2019	6	156	1437		204	7992				2044	856			2133	1336	16157
2019	7					572					126				1	699
2019	8					421					57	3			2	482
2019	9					309					35	47			3	393
2019	10					139.345		260.206			23.959	0.3665			0.654	424.5307
2019 Total		156	1437	0	263	16633	0	260	0	2044	2921	51	72	2375	1768	27978

Table 19. Reported catch (t) of BFT-E according to the Weekly Catch Reports (2018 is incomplete) as of 18 October 2019.
 Tableau 19 Prises déclarées (t) de thon rouge de l'Est d'après les rapports hebdomadaires de capture (l'année 2018 est incomplète) au 18 octobre 2019.
 Tabla 19. Captura declarada (t) de atún rojo del Este según los informes de captura semanales (2018 está incompleto) a 18 de octubre de 2019.

Catch(t)		Gear Group	LL					PS					BB					GN	HL	TW	TP	OT	UN	MULTIPURPOSE VESSELS				AUX				Grand Total
Season Year	Reported flag	Fishing Flag	<=15	>15 <=30	>30 <=40	>=40	UNK	<=15	>15 <=30	>30 <=40	>=40	UNK	<=15	>15 <=30	>30 <=40	>=40	UNK							<=15	>15 <=30	>30 <=40	>=40	<=15	>15 <=30	>30 <=40	>=40	
2017	Albania	Albania						0		0												0										0
	Algerie	Algerie						608	272	57	102																					1038
	China PR	China PR	10	1	25	3	25																									64
	Egypt	Egypt						96		27	0																					124
	European Union	EU.Croatia						261	57	84	22								45								103	20	26	14		631
		EU.Cyprus	22	5	18	5	1																	34	0	26						111
		EU.España	63	19	29	10	7	921	319	144	139		6	0	19	0	0	344	1299													3319
		EU.France	140	8	89	36	32	2162	195	792	170							69	236		23	41										3995
		EU.Greece																					100	75	19	1						195
		EU.Italy	129	19	40	26		1250	649	538	23										278											2951
		EU.Malta	50	12	20	10		68		62	15																0	1	1	0		240
		EU.Portugal																		368												368
	Iceland	Iceland																				0										0
	Japan	Japan	372	53	392	108	20															56										1002
	Korea Rep	Korea Rep	59		81	12	3																									155
	Libya	Libya						250	166	123	85																23	5				652
	Maroc	Maroc	2		1	2	0	173	14	53								154	1717			3										2120
	Norway	Norway						25			22											4										51
	Syria	Syria						57	0																							57
	Tunisie	Tunisie						662	193	284	145																189	17	129	68		1685
	Turkey	Maroc						90		7																						97
		Turkey						736	218	117	76																208	52	57	57		1521
2017 Total			847	118	696	214	88	7359	2082	2289	799		6	0	19	0	0	611	236	3661	23	105	135	75	45	1	523	95	212	139		20377
2018	Albania	Albania						32		26																						58
	Algerie	Algerie						447	51	666	137																					1300
	China PR	China PR	32		9	38																										79
	Egypt	Egypt						0	76	105																						181
	European Union	EU.Croatia						165	34	155	89							59								60	12	78	35			687
		EU.Cyprus	23	1	29	2																				20	0	44	0			121
		EU.España	33	8	22	10	0						20	4	12	11		1	444	1746		32										2343
		EU.France	179	30	174	52	1	1359	299	1784	487							0	44	304		19	1									4735
		EU.Italy	127	50	112	137		974	64	1121	92										254					0	56	0				2985
		EU.Malta	44	13	37	20	0	64	76	38	0																					292
		EU.Portugal																		330												330
	Japan	Japan	988	69	983	217	2																									2259
	Korea Rep	Korea Rep	73	5	86	15																										179
	Libya	Libya						752	53	696	136															128		0				1765
	Maroc	Maroc	8	3	16			64	17	60	1							222	2013		22											2426
	Norway	Norway								11												2										12
	Syria	Syria						0			66																					66
	Tunisie	Tunisie						643	387	455	120																172	61	166	23		2028
	Turkey	Turkey						407	34	558	80																114	8	86	10		1296
2018 Total			1508	179	1468	491	3	4907	1091	5673	1208		20	4	12	11		2	769	304	4342	19	57				494	136	375	68		23141
2019	Albania	Albania						156																								156
	Algerie	Algerie						1250																								1250
	China PR	China PR	4																													4
	Egypt	Egypt						155	13	4																						172
	European Union	EU.Croatia						555												33							195					783
		EU.Cyprus	57	0	0	1	0																			85						144
		EU.España	28	8	5	6	0	2003		54		50	173	16	5	15	6	1	459	1734		122										4686
		EU.France	343	7	7	14	3	4362										3	81	213		18	9									5061
		EU.Italy	276	56	33	32	1	2956													358					103						3814
		EU.Malta	27	1	0			256														0										284
		EU.Portugal											5	1	1						224											231
	Japan	Japan	318																													318
	Korea Rep	Korea Rep	80																													80
	Libya	Libya						1959																								1959
	Maroc	Maroc	18					128	2	1								194	2476		12											2829
	Norway	Norway	0					48														2										50
	Syria	Syria						72																								72
	Tunisie	Tunisie						483																			76					559
	Turkey	Turkey						1720	35	1		4																				1760
2019 Total			1152	73	45	54	4	#####	50	60		54	177	18	6	15	6	4	767	213	4792	18	145				458					24213

Table 20. Reported catch (t) of BFT (Eastern and Western stocks) according to the Monthly Catch Reports (2018 is incomplete) as of 18 October 2019.
 Tableau 20. Prises déclarées (t) de thon rouge (stocks de l'Est et de l'Ouest) d'après les rapports mensuels de capture (l'année 2018 est incomplète) au 18 octobre 2019.
 Tabla 20. Captura declarada (t) de atún rojo (stocks del Este y del Oeste) según los informes de captura mensuales (2018 está incompleto) a 18 de octubre de 2019.

Catch (t)			Eastern Stock Unit															Grand Total	
Season Year	Fishing Year	cmMon th	Albania	Algerie	China PR	Egypt	European Union	Iceland	Japan	Korea Rep	Libya	Maroc	Norway	Syria	Tunisie	Turkey			
2017	2017	1					29										0	29	
		2					88										0	88	
		3					314										0	314	
		4					217										0	217	
		5			0		0	7108				322	1621			1087	356	10494	
		6	56		1038		124	3536				1313	336		57	668	1154	8281	
		7						467	0				144					1	613
		8						383	0				7	13				0	403
		9						368	0	55			33	37				1	494
		10					42	421	0	1767		142			1			2	2374
		11					22	69	0			14						0	105
		12						48	0									0	48
2017 Total			56	1038	64	124	13047	0	1822	155	1635	2141	51	57	1755	1515	23460		
2018	2018	1					43										0	43	
		2					60										0	60	
		3					229						0				0	229	
		4					528										0	528	
		5			0			8658				84	1781		0	765	290	11578	
		6			1300			4718				1682	661		66	1328	982	10738	
		7						416	0				16		0	0	2	434	
		8						272	0				14	0	0	2	5	293	
		9						318	0			6	38	12	0	3	1	377	
		10					79	175	0	1880		174		55			5	1	2368
		11						67	0	291								3	361
		12						55	0									0	55
2018 Total				1300	79		15539	0	2171	179	1767	2564	12	66	2104	1284	27065		
2019	2019	1					67										0	67	
		2					133										0	133	
		3					332										0	332	
		4					421					0					1	421	
		5	0		0		59	6026				0	1837		72	259	425	8679	
		6	156		1437		204	6964				2044	856	0	0	2117	1336	15113	
		7						311					126	0	0		1	438	
		8						220	0				57	3		4	2	285	
		9							0	12	6		34	47			3	102	
2019 Total			156	1437		263	14475	0	12	6	2044	2910	50	72	2380	1767	25571		

* Cells shaded in yellow were obtained from cumulative weekly data as no monthly reports were received following the entry into force of Rec. 18-02

Catch (t)			Western Stock Unit					Grand Total
Season Year	Fishing Year	cmMon th	Canada	FR.St Pierre et Miquelon	Japan	Mexico	U.S.A.	
2017	2017	1		0		3	16	19
		2		0		4	62	66
		3		0		12	48	60
		4		0		13	6	19
		5		0		1	6	7
		6	2	0		0	28	30
		7	6	0		0	158	164
		8	48	0		0	235	283
		9	151	0	32	0	298	481
		10	207	0	164	0	98	469
		11	101	0		0	9	110
		12	3	0		0	22	25
2017 Total			517	0	196	32	988	1734
2018	2018	1		0		2	11	12
		2		0		2	68	71
		3		0		33	17	50
		4		0		26	6	31
		5		0		14	13	27
		6	3	0		0	52	55
		7	5	0		0	196	201
		8	48	0		0	223	271
		9	123	0		0	253	376
		10	235	0	122	0	126	484
		11	88	0	273	0	47	409
		12	4	0		2	16	23
2018 Total			506	0	396	79	1029	2009
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		0		0		0
2019 Total			116	0	42	727	885	

Table 21. Quantity (t) of BFT caged by fishing and farming flag CPCs, between 2017 and 2019, as reported under Rec. [08-05] as of 18 October 2019.

Tableau 21. Volumes (t) de thon rouge mis en cages, par CPC de pavillon de pêche ou CPC de ferme, entre 2017 et 2019, tels que déclarés en vertu de la Rec. 08-05 au 18 octobre 2019.

Tabla 21. Cantidades (t) de atún rojo por CPC del pabellón pesquero o CPC de la granja introducido en jaulas entre 2017 y 2019 tal y como se declararon con arreglo a la Rec. 08-05 a 18 de octubre de 2019.

Caging Wgt (t)		Farming Flag							
Farming Year	Fishing Flag	EU.Croatia	EU.España	EU.Malta	EU.Portugal	Maroc	Tunisie	Turkey	Grand Total
2017	EU.España		945						945
	EU.France		806						806
	EU.Italy	28							28
	Libya							455	455
	Maroc					338		50	388
	Tunisie						136		136
	Turkey							1678	1678
	EU.Croatia	134							134
	Syrian Arab Republic							57	57
	Unknown/Unclassified flag		365			1433			1799
	Egypt							87	87
2017 Total		420	2116	7998	64	1771	136	2326	14993
2018	EU.España		4201					58	4259
	EU.France		387						387
	EU.Malta		365						365
	Maroc					4054			4054
	Tunisie						655		655
	Turkey							1677	1677
	EU.Croatia	186							186
	Unknown/Unclassified flag		673						673
	Belize		162						162
	Eu.Portugal	487		9266	125				9878
2018 Total		673	5788	9266	125	4054	655	1736	22296
2019	EU.España		4155					105	4260
	EU.France		366						366
	EU.Malta						160		160
	Libya						239		239
	Maroc					5491			5491
	Tunisie						1299		1299
	Turkey							2530	2530
	EU.Croatia	229							229
	Unknown/Unclassified flag		677						677
	Belize		507						507
	Eu.Portugal	516			72				588
2019 Total		745	5705		72	5491	1698	2634	16347

Table 22. Bi-annual Statistical Documents (SD) and Re-export Certificates (RC) reported to ICCAT, by species, between 2018-10-01 and 2019-11-18.

Tableau 22. Documents statistiques (SD) et Certificats de réexportation (RC) semestriels déclarés à l'ICCAT, par espèce, entre le 2018-10-01 et le 2019-11-18.

Tabla 22. Documentos estadísticos (DE) y Certificados de reexportación (CR) semestrales comunicados a ICCAT, por especies, entre el 2018-10-01 y el 2019-11-18.

Reporting CPC	Year	Semester	Date reported	BET		SWO		* Other
				SD	RC	SD	RC	
Canada	2018	2	2019-04-02	√		√		
	2019	1	2019-09-16	√		√		
China PR	2018	2	2019-03-28	√		√	√	
	2019	1	2019-09-15	√		√		
Chinese Taipei	2018	2	2019-03-28	√		√		
	2019	1	2019-08-30	√		√		
Côte d'Ivoire	2018	2	2019-03-27	√				
	2019	1	2019-10-01	√				
EU (all flags combined)	2018	1	2019-03-29	√	√	√	√	
		2	2019-04-24	√	√	√	√	
	2019	1	2019-09-13	√	√	√	√	
El Salvador	2018	"yearly"	2019-09-24	√	√			
Ghana	2018	1	2019-08-02	√				
		2	2019-08-02	√				
Japan	2018	1	2018-10-02	√	√	√	√	
		2	2019-04-01	√	√	√	√	
	2019	1	2019-09-13	√	√	√	√	
Korea Rep.	2018	2	2019-03-26	√	√	√		√
	2019	1	2019-09-11	√	√	√	√	
Norway	2018	2	2019-03-29			√		
	2019	1	2019-09-15	√		√		
Senegal	2018	2	2019-06-13					√
Trinidad and Tobago	2018	1	2018-11-02	√				
		2	2019-04-03	√		√		
	2019	1	2019-09-16			√		
Turkey	2018	2	2019-04-22	√		√		
	2019	1	2019-09-04	√		√		
U.S.A.	2018	1	2018-10-01	√		√		√
		2	2019-09-14	√		√		√
	2019	1	2019-09-14	√		√		√

* Cannot be classified into SD or RC documents types (includes all 2 species). The information reported by El Salvador is yearly based.

Table 23. Swordfish: Task I (t) versus trade (SDP) in product weight (t), by stock and flag between 2011 and 2019 (SDP data for 2019 with first semester only).
 Tableau 23. Espadon : Données de la Tâche I (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2011 et 2019 (données SDP pour 2019 uniquement avec le premier semestre).
 Tabla 23. Pez espada: Tarea I (t) frente a estadísticas comerciales (SDP) en peso de producto (t), por stock y pabellón entre 2011 y 2019 (datos de SDP para 2019 solo con el primer semestre).

			Task 1									Trade (SDP: Statistical Document Program)																
												SD (statistical documents)					RC (re-export certificates)											
Stock	Status	FishFlag	2011	2012	2013	2014	2015	2016	2017	2018	2011	2012	2013	2014	2015	2016	2017	2018	2019	2011	2012	2013	2014	2015	2016	2017	2018	2019
ATN	CP	Barbados	23	21	16	21	29	20	21	18																		
		Belize	184	141	142	76	1	3	59	145		26	115	63	21			30	11									
		Brazil													0													
		Canada	1558	1599	1565	1616	1588	1559	1209	787		979	976	1017	35		1		464	6								
		China PR	75	59	96	60	141	135	81	86		65	94	59	88		72	35	14	22								
		Côte d'Ivoire							27	21				3				5	25	12								
		Curaçao								0																		
		El Salvador								0																		
		EU.España	4889	5622	4084	3750	4013	3916	3588	3186		0		372					6									
		EU.France	16	94	44	28	66	90	79	80				19														
		EU.Greece													0													
		EU.Ireland	2	5	2	3	15	15	10	13																		
		EU.Italy													0													
		EU.Netherlands	1																									
		EU.Portugal	1203	882	1438	1241	1420	1460	1871	1691			0			0												
		EU.United Kingdom		0	0		0		0																			
		FR.St Pierre et Miquelon	1		18	3																						
		Ghana									0			7														
		Guatemala																										
		Guinea Ecuatorial			13																							
		Japan	523	639	300	545	430	379	456	325		0		0	1													
		Korea Rep.	170	46	83	35	2	9	19	9					3	1	2				1							
		Liberia						18	95	5																		
		Maroc	782	770	1062	1062	850	900	900	950		213	597	409	554		1018											
		Mexico	38	41	33	32	31	37	64	45		1	1															
		Norway						0		0																		
		Philippines	17	36	9	14																						
		Senegal	1	44	43	49	78	52	51	44		5	5	795	0		51	31	339	600								
		St. Vincent and Grenadines	11	8	4	40	102	33	46	26					3	88	10	6	4									
		Trinidad and Tobago	16	14	16	26	17	13	36	3		12	9	6	9		6		3									
		U.S.A.	2774	3611	2944	1945	1718	1498	1405	1275				22	15		1		0									
		UK (Overseas Territories)												4														
		UK.Bermuda	3	1	1	1	1	2																				
		UK.British Virgin Islands	4			0	0																					
		UK.Turks and Caicos			13	17										2												
		Vanuatu	23	15	2	4	7											25										
		Venezuela	18	25	24	24	29	53	52																			
NCC	Chinese Taipei		192	193	115	85	133	152	96	169	79	121	49	70	46	63	35	66	60									
	Guyana					0	6	10	5																			
NCO	Dominica		0			0	0	0																				
	Saint Kitts and Nevis					0		0	2																			
	Sta. Lucia	0		0	0	0	0	1			0	252																
ATN Total			12523	13868	12069	10678	10673	10376	10169	8863	1381	2177	2819	784	65	1326	146	931	708									
ATS	CP	Angola				18			13				12	8														
		Barbados									0																	
		Belize	207	197	136	45	111	176	166	115	68	145	19			37	9	31	21									
		Brazil	3033	2833	2384	2892	2599	2935	2406	2798	541	483	569	270	0	141		869	413									
		China PR	248	316	196	206	328	222	302	355	378	57	171	166	40	220	65	66	222									
		Côte d'Ivoire	145	88	110	55	42	25	17	57	4							12	30									
		Curaçao							0																			
		El Salvador							0																			
		EU.España	4700	4852	4184	4113	5059	4992	4654	4404		24	10	12	1			12	8									
		EU.France							0	5																		
		EU.Portugal	263	184	125	252	236	250	466	369																		
		Gabon				0																						
		Ghana	60	54	37	26	56	36	55	6	0	13																
		Guatemala							0																			
		Japan	1233	1162	684	976	659	637	915	640	1	6	6	23		1	0	10	8									
		Korea Rep.	70	65	47	53	5	19	11	18				21	21	10	6	1	7									
		Maroc									0																	
		Namibia	414	85	129	395	225	466	600	881	67	259	37	11														
		Panama							0																			
		Philippines	35	15	35	58					22	66	44	59	2													
		S. Tomé e Príncipe	60	84	60	94	145	77	65																			
		Senegal	264	162	178	143	97	173	160	92									43	31								
Sierra Leone	16																											
South Africa	97	50	171	152	218	164	189	189	90	66	131	30	1	2	26	108	107											
St. Vincent and Grenadines	3	2	2	19	0	5	9	4																				
U.S.A.			0																									
UK.Sta Helena			5	6	2																							
Uruguay	179	40	103						6																			
Vanuatu	1	3	0	1	1																							
NCC	Chinese Taipei		428	496	582	451	554	480	527	472	368	271	146	411	173	303	121	215	197									
	Suriname											0																
NCO	Argentina		0																									
	Australia																	2										
	Fiji Islands										1								0									
	Indonesia											197																
	Other (unclassified)										1																	
ATS Total			11455	10686	9169	9956	10338	10658	10556	10404	1548	1586	1145	1012	238	715	228	1370	1047									
MED	CP	Algerie	216	387	403	557	568	671	550	528																		
		Egypt			1	0																						
		EU.Croatia	6	4	10	16	10	25	20	28																		
		EU.Cyprus	35	35																								

Tabla 24. Patudo: Tarea I (t) frente a estadísticas comerciales (SDP) en peso de producto (t), por stock y pabellón entre 2011 y 2019 (datos de SDP para 2019 solo con el primer semestre).

			Task I								Trade (SDP: Statistical Document Program)																		
Stock	Status	FishFlag	2011	2012	2013	2014	2015	2016	2017	2018	SD (statistical documents)								RC (re-export certificates)										
A+M	CP	Angola							3		2011	2012	2013	2014	2015	2016	2017	2018	2019	2011	2012	2013	2014	2015	2016	2017	2018	2019	
		Barbados	7	15	11	26	30	19	16	29																			
		Belize	1260	1257	1377	1524	1877	1764	1961	2135	462	635	631	108	215	462	749	460	209										
		Brazil	1841	2120	3623	6456	7750	7660	7258	5096	17	1	8	9		5													
		Canada	137	166	197	218	258	171	214	237																			
		Cape Verde	1077	735	1378	2368	2764	1680	1107	1418	90	269	244			1													
		China PR	3720	3231	2371	2232	4942	5852	5514	4823	3289	2343	2214	2169	2586	6076	5027	4931	1985										
		Côte d'Ivoire	49	602	681	441	12	544	1239	384		72	60			374	444	316	249										
		Curaçao	3488	2950	1998	2357	2573	3598	2844	3530		518	602		259	857	751												
		El Salvador					992	1450	1826	2634								96											
		EU.Belgium														39													
		EU.Cyprus									0																		
		EU.España	13316	11012	10162	10878	10058	11469	11544	8400	851	656	622	1495	548	1272	2271	1275	82										
		EU.France	3901	3948	3278	3602	2583	4566	4077	4057	721	1763	470	1177	386	840	551	564	343										
		EU.Germany										0																	
		EU.Greece									0																		
		EU.Hungary																15											
		EU.Ireland						0	0																				
		EU.Italy								7		0	0		44			127											
		EU.Netherlands															138												
		EU.Portugal	6920	6128	5345	3869	3135	2187	3146	4405		61	77	150	121														
		EU.United Kingdom								0		0																	
		FR.St Pierre et Miquelon			0	0																							
		Ghana	3541	4468	2963	4175	5918	5194	3838	3571	1892	5198	2476	893	197	433	670	550	87										
		Grenada															0												
		Guatemala	288	273	168	1007	340	1103	1602	1488		68	3																
		Guinea Ecuatorial	58		3	10	17	4	11	7																			
		Guinée Rep.	525	1804	1674	1111																							
		Japan	12306	15390	13397	13603	12390	10365	10994	9881	48	40	110	76		92	26	15	31										
		Korea Rep.	2762	1908	1151	1039	677	562	432	623	1616	1267	1935	528	531	296	560	406	210										
		Liberia						27	98	1																			
		Maroc	300	300	308	300	309	350	410	500	0	4		2		0													
		Mauritania						1																					
		Mexico	1	1	2	1	2	2	3	3																			
		Namibia	289	376	135	240	465	359	141	109	125	194	36		12	3		10	72										
		Nigeria	1	0																									
		Panama	3531	1736	2853	2341	1289	2337	1664	2067		673	169				136	12	7										
		Philippines	1267	532	1323	1964					1357	810	746	2108	434														
		S. Tomé e Príncipe	100	103	107	110	633	421	393	482																			
		Senegal	479	436	606	369	1031	1500	2978	2870	58	271	493	299	6	474	237	228	197										
		South Africa	153	47	435	332	193	121	257	282		0	98	4		36													
		St. Vincent and Grenadines	38	25	16	30	496	622	889	428					349	682	359	375	330										
		Trinidad and Tobago	33	33	37	59	77	37	25	17		0	0	0															
		Tunisie										3																	
		Turkey												1															
		U.S.A.	722	867	881	892	1082	568	836	921	21	108	11	8	2		2												
		UK.Bermuda	0	0	0	0	0																						
		UK.Sta Helena	190	51	19	17	44	77	70	45	17	67	8			42													
		UK.Turks and Caicos			4	2																							
		Uruguay	15	2	30																								
		Vanuatu	39	23	9	4																							
		Venezuela	264	98	94	169	132	156	318	202							249	104											
	NCC	Chinese Taipei	13732	10819	10316	13272	16453	13115	11845	11630	11276	9548	9571	10725	12330	13612	9464	10426	6757										
		Guyana					6	25	34	53																			
	NCO	Congo											27																
		Dominica				0	0	0	0								19												
		Ecuador																											
		Lebanon										0	1																
		Madagascar										0																	
		Mixed flags (EU tropical)	257				989	1187	972	1049																			
		Other (unclassified)										94	0	432		620	499	555	223										
		Saint Kitts and Nevis					0	4	1																				
		Sta. Lucia	0	0			6	10	24	13																			
		Vietnam											23																
A+M Total			76606	71457	66954	75019	79524	79109	78585	73397	21840	24662	20637	20183	18058	26198	22132	20466	10780										
UNK											94	441	58	81	263	32	8	176	1580	3022									
TOTAL			76606	71457	66954	75019	79524	79109	78585	73397	21840	24756	21077	20284	18061	22164	20474	10956	1580	3022									

Table 25. Amounts (t) of various tuna and tuna-like species transhipped at sea as reported under Rec. [06-11] by product type.
Tableau 25. Volumes (t) de divers thonidés et espèces apparentées transbordés en mer tels que déclarés en vertu de la Rec. 06-11, par type de produit.
Tabla 25. Cantidades (t) de varios túnidos 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	Number	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	Head off	Roes	
2017	Chinese Taipei	ALB							3.10					3.10
		BET		9006.96										9006.96
		MLS		0.30										0.30
		SWO	203.48	11.86										215.34
		YFT		449.37										449.37
	China, P.R.	ALB	0.61	0.29					133.04					133.94
		BET		5634.86										5634.86
		BLM	0.45											0.45
		BSH	13.49											13.49
		BUM	18.74	15.83					0.23					34.79
		MAK	2.16											2.16
		MIX		123.07										123.07
		OIL	9.04						7.02		8.54			16.06
		OTF												8.54
		PXX	0.34											0.34
		SAI	0.54											0.54
		SSM	0.92	0.04					0.70					1.66
		SWO	306.44	9.74										316.18
		YFT		414.14										414.14
		SKH	2.53											2.53
		OPA	3.55						0.13					3.68
	Korea, Republic of	ALB		0.15					0.37					0.53
		BET		199.11										199.11
		BIL		0.01										0.01
		BUM		2.93										2.93
		MLS		0.09										0.09
		OIL	4.40	1.02										5.42
		OTF	1.83							0.32	11.52			13.67
		SAI	1.42	1.52										2.94
		SBF		156.02										156.02
		SKJ		0.01					0.08					0.09
		SWO	7.19	3.07		0.10								10.36
		TUN									1.10			1.10
		YFT		239.42										239.42
	Japan	ALB	2.80	1.64			63.79		1009.86					1078.09
		BET		6410.05		1.05								6411.10
		BIL		0.60										0.60
		BLM	2.50	0.08										2.58
		BSH	8.07											8.07
		BUK	109.69											109.69
		BUM	168.81	41.94		3.77			0.70		0.12			215.34
		COM	0.50											0.50
		MAK				3.01								3.01
		MIX				0.60								0.60
		MLS	2.36	4.02		0.02								6.41
		OIL							0.18					0.18
		OTF							0.30		11.48			11.78
		SAI	3.89											3.89
		SBF		1090.01										1090.01
		SKJ							0.31					0.31
		SMA	0.88			2.21		0.02			0.02			3.12
		SSM	3.29	0.02					1.12					4.44
		SSP	0.24											0.24
		SWO	499.78	9.87		157.73			4.78					672.16
		WAH	4.12											4.12
		YFT		1898.21										1898.21
		MAW	1.08						0.44					1.52
		SKH				3.21		0.53			0.27			4.01
		OPA	45.50	0.25										45.75
		DOL	0.54						1.51					2.05
		BLZ			2.38										2.38
		SFA		4.41											4.41
	Belize	BET		333.89										333.89
		SWO		21.50										21.50
		YFT		18.66										18.66
	St. Vincent and Grenadines	BET		238.14										238.14
		YFT		17.35										17.35
	Côte d'Ivoire	BET		243.48										243.48
		SWO	16.12											16.12
		YFT		11.30										11.30
	Senegal	ALB							2.91					2.91
		BET		197.49										197.49
		SWO	22.75											22.75
		YFT		8.76										8.76
	Spain	BET		31.79										31.79
		YFT		0.62										0.62
2017 Total			1474.45	26851.83		171.69	63.79	0.55	1166.79	0.32	33.05			29762.47
2018	Chinese Taipei	ALB							18.36					18.36
		BET		10027.76										10027.76
		BUM	10.74											10.74
		MLS		0.17										0.17

Year	Fishing Flag	Species Code	Dressed weight	Gilled & gutted	Number	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	Head off	Roes	Grand Total
		SWO	262.59											262.59
		YFT		554.97		0.39								555.35
	China, P.R.	ALB	7.44	7.36					182.27					197.07
		BET		4930.71										4930.71
		BUM	45.00	8.14										53.14
		COM	2.18						0.78					2.96
		MAK	0.50											0.50
		OIL	18.83	0.37							9.47			28.67
		OTF									3.86			3.86
		SAI	6.35	0.32										6.66
		SSM							1.19		0.23			1.42
		SSP	3.37											3.37
		SWO	226.11	8.44										234.56
		YFT		381.75										381.75
		MAW	6.09											6.09
		OPA	4.52								5.66			10.18
		BRA	18.50						32.00					50.50
	Korea, Republic of	DOL							6.20					6.20
		LEC	0.38								0.36			0.74
		ALB		440.09					81.97					81.97
		BET												440.09
		BUK	58.14											58.14
		BUM	3.38											3.38
		MLS		0.33										0.33
		SBF		424.18										424.18
		SWO	9.22											9.22
		YFT		376.05										376.05
	Japan	ALB	36.32				20.01		1786.30					1842.63
		BET	0.29	5617.38					0.93	0.22	2.40			5621.22
		BIL	0.06											0.06
		BLM	0.73	1.44										2.17
		BSH		28.24										28.24
		BUK	193.28											193.28
		BUM	98.49	63.46		0.71								162.67
		COM	2.26											2.26
		MAK				1.34								1.34
		MLS	0.87	3.09					0.05					4.01
		OIL	1.93											2.37
		OTF	10.59						0.51					18.88
		SAI	2.19	0.23	0.08	0.15			0.50		7.55	0.44		2.92
		SBF		1636.50										1636.50
		SKJ	0.01						0.77					0.78
		SMA		1.86		2.45					0.02			4.32
		SSM	3.06						0.22					3.28
		SSP	2.27											2.27
		SWO	376.57	14.80		142.68					0.53			534.58
		TUN									0.79			0.79
		WAH	6.05											6.05
		YFT		1856.07										1856.07
		SKH						1.31						1.31
		OPA	47.61						1.39					49.00
		DOL	0.02						1.69					1.72
		SFA	9.74											9.74
		TUS									0.27			0.27
		LEC	1.17									0.07		1.23
	Belize	BET		225.09										225.09
		SWO	12.46											12.46
	St. Vincent and Grenadines	YFT		12.70										12.70
		BET		381.42										381.42
	Côte d'Ivoire	SWO	12.97											12.97
		YFT			29.06										29.06
	Senegal	BET		314.71										314.71
		SWO	35.26											35.26
	Namibia	YFT		43.60										43.60
		ALB							7.94					7.94
	Senegal	BET		230.42										230.42
		SWO	38.59											38.59
	Namibia	YFT		12.84										12.84
		BET		24.01										24.01
	2018 Total	YFT		148.08										148.08
			1576.12	27805.64	0.08	147.72	20.01	1.31	2123.05	0.22	31.13	0.51		31705.77
	2019	ALB	1.81				6.38		172.84					181.03
		BET		7115.38										7115.38

Year	Fishing Flag	Species Code	Dressed weight	Gilled & gutted	Number	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	Head off	Roes	Grand Total
		BSH	13.15											13.15
		BUM	4.27											4.27
		OIL	6.91											6.91
		OTF				0.11					1.15		4.09	5.35
		SAI	2.59											2.59
		SSP	0.02											0.02
		SWO	181.01											181.01
		WHM		0.37										0.37
		YFT		317.22										317.22
		OPA	9.45											9.45
		DOL					0.69							0.69
	China, P.R.	ALB	5.09						92.28					97.37
		BET		3608.15										3608.15
		BUM	25.69	0.22										25.91
		COM	3.66						0.35					4.01
		MLS	0.04											0.04
		OIL	10.39								1.49			11.88
		OTF	0.33											0.33
		SAI	0.24											0.24
		SWO	77.22									23.00		100.22
		YFT		179.61										179.61
	Korea, Republic of	OPA	1.43								2.59			4.02
		SFA	0.06											0.06
		ALB		105.75					37.59					37.59
		BET		0.35										105.75
	Japan	MLS	4.85											0.35
		SWO		206.46										4.85
		YFT												206.46
		ALB							914.60					914.60
		BET	1.91	3148.78										3150.70
		BLM	0.46	0.20										0.66
		BSH	8.24					0.38						8.62
		BUK	40.35	10.72										51.07
		BUM	66.05	52.99										119.04
		COM	2.90											2.90
		MAK				0.17								0.17
		MLS	0.86	1.17										2.04
		OIL	0.95											0.95
		OTF				0.17			1.02	0.19	10.44			11.82
		SAI	8.86					0.02						8.87
		SBF		855.09										855.09
		SKJ							0.10					0.10
		SMA	0.91			2.26		0.08						3.25
		SSM	3.69											3.69
		SSP	0.44											0.44
		SWO	228.03			72.14								300.17
		WAH	3.06											3.06
		WHM		0.17										0.17
		YFT	0.57	1824.39										1824.95
		OPA	19.77									0.08		19.86
		DOL							1.39					1.39
		SFA	11.64											11.64
	Belize	BET		68.83										68.83
		YFT		8.09										8.09
	St. Vincent and Grenadines	BET		231.51										231.51
		YFT		9.04										9.04
	Côte d'Ivoire	BET		247.46										247.46
		SWO	11.94											11.94
	Senegal	YFT		27.38										27.38
		BET		156.97										156.97
	Namibia	YFT		8.20										8.20
		BET		57.41										57.41
	Bahamas	YFT		74.84										74.84
		BET		61.27										61.27
		YFT		3.73										3.73
2019 Total			758.81	18381.76		74.85	7.07	0.48	1220.17	0.19	15.67	23.08	4.09	20486.17

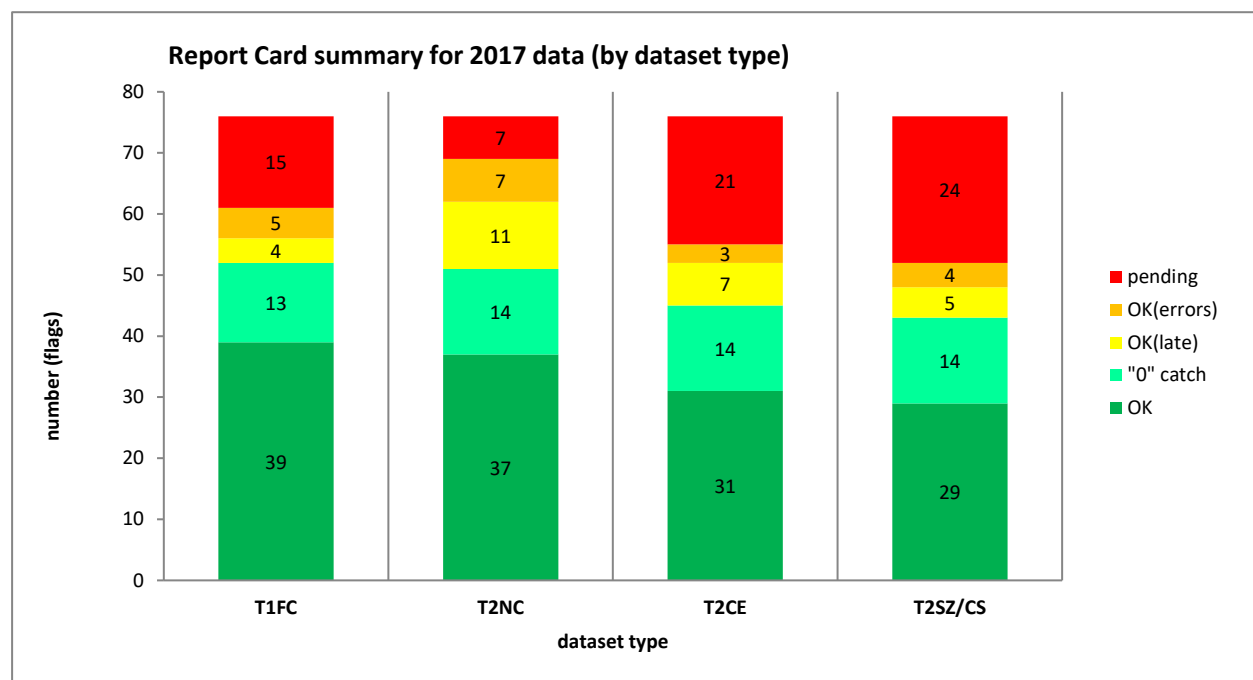
Table 26. Volumes published in 2018 within the ICCAT series of periodic publications.
 Tableau 26. Volumes publiés en 2018 dans les séries des publications périodiques de l'ICCAT.
 Tabla 26. Volúmenes publicados en 2018 dentro de las series periódicas de publicaciones de ICCAT.

Publication			Period	Format			Content
Name	Vol #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	75	06-Aug	2018			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Collect. Vol. Sci. Pap.	76	01-Jun	2019			√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Informe Bienal	2018-2019 (Part I)	1	2018			√	Report of the 24 th Regular Commission meeting
		2	2018			√	Informe del SCRS
		3	2018			√	Informes anuales
		4	2018			√	Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al PWG)
Boletín estadístico	45		1950-2017			√	Estadísticas ICCAT
Newsletter	29		Feb. 2019			√	Noticias
	30		Sept. 2019			√	

Figure 1. Summary of CPCs reporting status for 2018 data.

Figure 1. Résumé de la situation de déclaration des CPC pour les données de 2018.

Figura 1. Resumen del estado de comunicación de las CPC para datos de 2018.



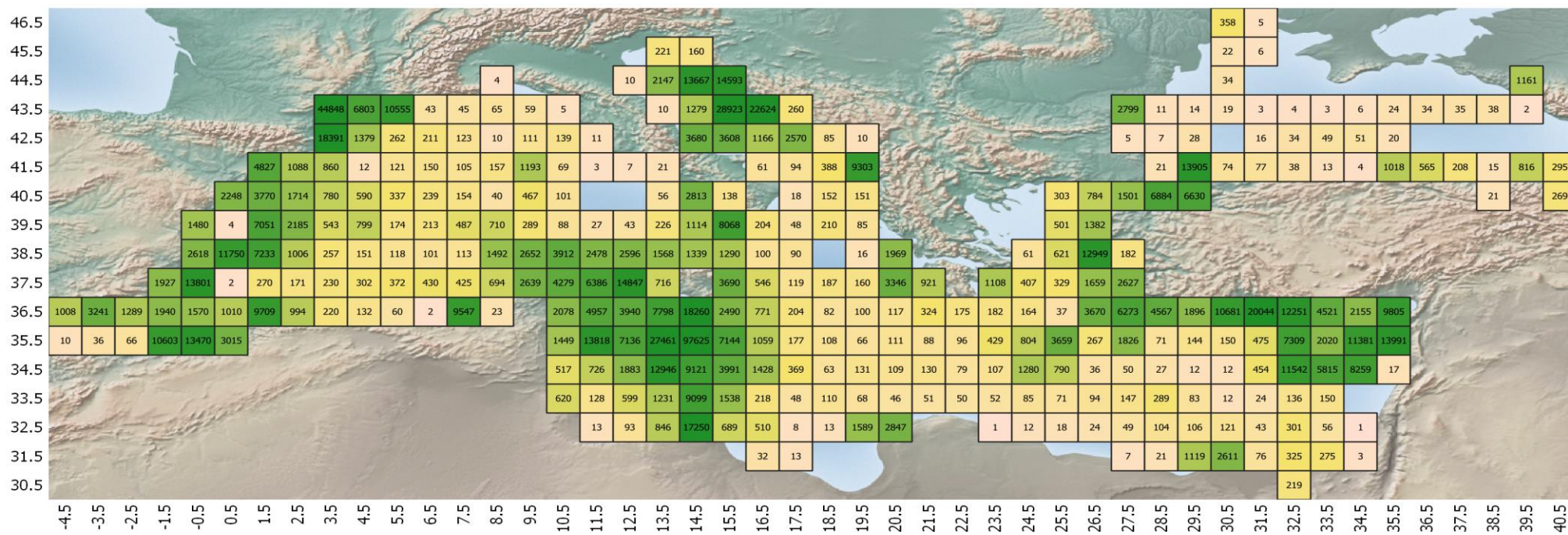
2019 COM

		Dataset type			
Values	Rep. status	T1FC	T2NC	T2CE	T2SZ/CS
number	OK	39	37	31	29
	"0" catch	13	14	14	14
	OK(late)	4	11	7	5
	OK(errors)	5	7	3	4
	pending	15	7	21	24
	TOTAL	76	76	76	76
%	OK	51%	49%	41%	38%
	"0" catch	17%	18%	18%	18%
	OK(late)	5%	14%	9%	7%
	OK(errors)	7%	9%	4%	5%
	pending	20%	9%	28%	32%

Figure 2. Number of VMS signals received from vessels authorised to fish bluefin tuna in the period 2018-10-11/2019-10-18. Aggregated information by 1 degree squares for the Mediterranean Sea. The data does not contemplate positions in port (according to the integrated algorithm).

Figure 2. Nombre de signaux VMS reçus de navires autorisés à pêcher du thon rouge entre le 18 octobre 2019 et le 18 octobre 2018. Information agrégée en carrés de 1 degré pour la mer Méditerranée. Les données ne tiennent pas compte des positions au port (selon l'algorithme intégré).

Figura 2. Número de señales de VMS recibidas de buques autorizados a pescar atún rojo en el periodo 2018-10-11/2019-10-18. Información agregada por cuadrículas de 1 grado para el mar Mediterráneo. Los datos no consideran las posiciones en puerto (según el algoritmo integrado).



Appendix 2: Summary of FAD information received in FAD Management Plans and ST08 forms for 2018. Some datasets could require revisions.

Appendice 2. Résumé des informations sur les DCP consignées dans les plans de gestion des DCP et les formulaires ST08 au titre de 2018. . Certains jeux de données sont en attente de révision

Apéndice 2: Resumen de la información sobre DCP recibida en los planes de ordenación de DCP y en los formularios ST08 para 2018. Algunos conjuntos de datos pendientes de revisión.

FAD Management Plan	Reported 2018 Data on ST-08
Belize	Panama
Curacao	Curacao
EU.España	Eu.Espana
EU.Francia	EU.Francia
	Belize
	Guatemala
	El Salvador

Appendix 3: Current summary of CPC responses regarding their National Observer Programs, coverage and data collection features.
 Appendix 3 : Résumé des réponses apportées par les CPC concernant leurs programmes nationaux d'observateurs, couverture et caractéristiques de la collecte des données.
 Apéndice 3 : Resumen de las respuestas de las CPC sobre sus programas nacionales de observadores, cobertura y características de recopilación de datos.

	China	EU/Jahia	EU/Cyprus	Moroc	Belize	Canada	Guinea	EU/France	Turkey	EU/Portugal Madeira	EU/Portugal	Ghana	Korea	Mexico	El Salvador	Chinese Taipei	Tunisia	Turkey	USA	EU/Jahia	Cote d'Ivoire	EU/Croatia	Guatemala	Mexico
Start year	2009	2008	2006	2018	2018	2018	2018	2018	2012	2018	2018	2006	2002	2018	2018	2018	2012	2018	1992	2016	2012	2011	2018	1993
Fisheries monitored (1 or more)	LL	LL	LL	LL,TP	LL,PS	LL,BK,GN,TW	PS	PS	LL	BB,HL	LL,TP	PS,BB	LL	LL	PS	LL	PS,LL	LL	LL	LL,TP	PS	Towing	PS	LL
Coverage																								
Percent Coverage	10.80%	20.00%	2.00%	5100.00%	10%	7.9, 0.3	100	81	25	11	7.1	67	22%	100	100	10	10	25	8	-	50	100	100	100
Coverage based on	No. of hooks	No. Of Vessels	No. Of annual trips	No. Of Vessels	No. of Vessels	No. of sets	No. Trips	No. of sets	No. Of annual trips	No. Of Vessels	No. of sets	No. of vessels	Other	Other	No. of vessels	Days at sea	No. of vessels	No. of annual trips	No. of sets predefined strata per quarter	No. of vessels	Annual Trips	No. of vessels	No. of vessels	No. Trips
Sample scheme INFO:																								
Vessel selection modality	Combination Random + Voluntary	Random	Combination Random + Voluntary	random	Combination Random + Voluntary	Random	Voluntary	Random	No. Of annual trips	Voluntary	Combination Random + Voluntary	Voluntary	Combination Random + Voluntary	Mandatory	Voluntary	Random	Combination Random + Voluntary	Voluntary	Random	Combination Random + Voluntary	Voluntary	None	other	other
Nº vessels observed per year	5	1	6	1,12	4	17	5	10	1	3	10	25	6	29	4	23	5	1	other	35	1		2	
Notes						2018 total, has changed with observer coverage percentage goal					Combination of random + voluntary for LL; Complete (100%) for TP		Combination Random + Voluntary					30 vessels per quarter average				all two vessels have 100% coverage	all vessels are observed	
Geographical regions:																								
AT-NE (Atl- Northeast)	YES		NO		Yes	No	No	No		Yes	Yes	No	No	No	Yes	Yes	No	No	No	No				
AT-NW (Atl- Northwest)	YES		NO		Yes	No	No	No		No	No	No	Yes	Yes	Yes	Yes	No	No	Yes	No			Yes	
AT-SE	YES		NO		Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	No	No	Yes	No	No	No	No			Yes	
AT-SW	YES		NO		Yes	No	No	No		No	No	No	No	No	Yes	Yes	No	No	No	No				
IMD (Med sea)	NO	Yes	YES		No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	No	Yes	No	Yes			

APPENDIX 1 /Appendice 1 / Apéndice 1

Appendix 1. Standard SCRS catalogues on statistics (Task-I and Task-II) 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 (1989 to 2018). Only the most important fisheries (representing $\pm 97.5\%$ of Task-I total catch) are shown. For each data series, Task I (DSet= "t1", in t) is visualised against its equivalent Task II availability (DSet= "t2") scheme. The Task-II colour scheme, has a concatenation of characters ("a"= T2CE exists; "b"= T2SZ exists; "c"= T2CS exists) that represents the Task-II data availability in the ICCAT-DB. See the legend for the colour scheme pattern definitions.

Appendice 1. Catalogues standard du SCRS sur les statistiques (Tâche I et Tâche II) des 13 espèces principales de l'ICCAT (10 espèces de thonidés et espèces apparentées et 3 espèces de requins) par stock, pêche principale (combinaisons pavillon-engin classées par ordre d'importance) et année (1989 à 2018). Seules les pêcheries les plus importantes (représentant $\pm 97,5\%$ de la prise de Tâche I) sont présentées. Chaque série de données de la Tâche I (DSet= "t1", en tonnes) est représentée par rapport au schéma de disponibilité équivalent de la Tâche II (DSet= "t2"). Le schéma de couleurs de Tâche II présente une concaténation de caractères ("a"= T2CE existe; "b"= T2SZ existe; "c"= T2CS existe) qui représente la disponibilité des données de Tâche II dans la base de données de l'ICCAT. Veuillez vous reporter aux légendes pour les définitions du schéma de couleurs.

Apéndice 1. Catálogos estándar del SCRS sobre estadísticas (Tarea I y Tarea II) 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 (1989 a 2018). Solo se muestran las pesquerías más importantes (que representan $\pm 97,5\%$ de la captura total de Tarea I). Cada serie de datos de Tarea I (DSet= "t1", en t) se visualiza con respecto a su esquema equivalente de disponibilidad de Tarea II (DSet= "t2"). En el esquema de colores de Tarea II, se incluye una concatenación de caracteres ("a"= T2CE existe; "b"= T2SZ existe; "c"= T2CS existe) que representa la disponibilidad de datos de Tarea II en la base de datos de ICCAT. Véase la leyenda para las definiciones del patrón del esquema de colores.

Table # Fishery

1	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-N region
24	POR-S region
25	SMA-N region
26	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	32071	36881	27931	30851	38135	35163	38377	28803	29023	25746	34551	33124	26253	22741	25567	25960	35318	36989	21991	20483	15375	19509	20039	25680	24633	26655	25551	30340	28401	29366					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
ALB	ATN	CP	EU.España	BB	t1	14918	15442	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	1	31.5%	31%		
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	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	1				
ALB	ATN	CP	EU.España	TR	t1	10479	10342	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	2	23.0%	54%		
ALB	ATN	CP	EU.España	TR	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	2			
ALB	ATN	CP	EU.France	TW	t1	2240	1032	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	3	11.4%	66%		
ALB	ATN	CP	EU.France	TW	t2	abc	abc	abc	abc	ab	a	b	ac	ac	a	ac	ac	ac	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	a	abc	a	b	3				
ALB	ATN	NCC	Chinese Taipei	LL	t1	1294	1651	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	4	10.8%	77%		
ALB	ATN	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	4				
ALB	ATN	CP	EU.Portugal	BB	t1	166	3182	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	5	4.0%	81%		
ALB	ATN	CP	EU.Portugal	BB	t2	ab	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	ab	abc	abc	abc	a	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	ab	ab	5				
ALB	ATN	CP	EU.France	GN	t1	1450	2268	3660	4465	4587	3967	2400	2048	1717	2393	1723	1864	1150	13									2	1				7	3	0	0	6	4.0%	85%	
ALB	ATN	CP	EU.France	GN	t2	abc	abc	abc	ab	ab	ab	ac	ac	ac	a	ac	ac	ac	a									-1	-1				-1	-1	a	0	-1	6		
ALB	ATN	CP	EU.Ireland	TW	t1											57	319	80	634	1100	594	172	258	505	586	1514	1997	785	3595	3551	2231	2485	2390	2337	2492	3102	7	3.6%	88%	
ALB	ATN	CP	EU.Ireland	TW	t2											-1	b	a	a	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	b	7			
ALB	ATN	CP	EU.Ireland	GN	t1															3639	4523	3374	1430													8	2.5%	91%		
ALB	ATN	CP	EU.Ireland	GN	t2															c	c	c	bc	ab	ab											8				
ALB	ATN	CP	Japan	LL	t1	764	737	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	9	2.0%	93%		
ALB	ATN	CP	Japan	LL	t2	ab	ab	ab	ab	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	9			
ALB	ATN	CP	St. Vincent and Grenadines	LL	t1																															10	0.9%	94%		
ALB	ATN	CP	St. Vincent and Grenadines	LL	t2																															10				
ALB	ATN	CP	U.S.A.	RR	t1	133	175	251	103	224	324	23	309	335	601	90	251	122	323	334	500	356	284	394	125	23	150	171	145	340	137	121	43	28	9	11	0.8%	94%		
ALB	ATN	CP	U.S.A.	RR	t2	a	ab	ab	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	11			
ALB	ATN	CP	U.S.A.	LL	t1	61	148	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	12	0.6%	95%		
ALB	ATN	CP	U.S.A.	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	12			
ALB	ATN	CP	Venezuela	LL	t1	29	93	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	13	0.6%	96%			
ALB	ATN	CP	Venezuela	LL	t2	b	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	13				
ALB	ATN	CP	Venezuela	PS	t1	12	1	221	139	228	278	278	263	26	91	55	191	260	93	211	341	63	162	198	70	84	16		21		27			2	14	0.4%	96%			
ALB	ATN	CP	Venezuela	PS	t2	ab	a	b	ab	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	14				
ALB	ATN	CP	EU.España	LL	t1	27	8	11	13	8	5	19	35	30	105	86	214																			15	0.3%	96%		
ALB	ATN	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	15			
ALB	ATN	CP	Belize	LL	t1																															16	0.3%	97%		
ALB	ATN	CP	Belize	LL	t2																															16				
ALB	ATN	CP	Vanuatu	LL	t1																															17	0.3%	97%		
ALB	ATN	CP	Vanuatu	LL	t2																															17				

Table 2. ALB-S stock

					T1 Total	27212	28714	26016	36562	32813	35300	27552	28426	28022	30595	27656	31387	38796	31746	28005	22545	18916	24453	20283	18867	22265	19225	24129	25282	19457	13702	15199	14336	13825	17098					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
ALB	ATS	NCC	Chinese Taipei	LL	t1	18386	20442	19883	23063	19400	22573	18351	18956	18165	16106	17377	17221	15833	17321	17351	13288	10730	12793	13146	9966	8678	10975	13032	12813	8519	6675	7157	8907	9090	9227	1	58.1%	58%		
ALB	ATS	NCC	Chinese Taipei	LL	t2	ab	ab	ab	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	2				
ALB	ATS	CP	South Africa	BB	t1	6834	5220	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	2	17.1%	75%		
ALB	ATS	CP	South Africa	BB	t2	ab	ab	ab	ab	ab	ab	ab	ab	b	ab	ab	ab	abc	abc	abc	abc	ab	ab	a	a	ab	ab	ab	ab	ab	ab	a	a	a	a	3	5.9%	81%		
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	3			
ALB	ATS	CP	Namibia	BB	t2							abc	abc	-1	-1	-1	abc	c	ab	ac	2865	1844	285	359	267	222	233	150	207	920	824	778	326	431	494	383	311	4	4.9%	86%
ALB	ATS	CP	Brazil	LL	t1		433	485	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	4			
ALB	ATS	CP	Brazil	LL	t2	a	a	a	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	a	ab	5	3.6%	90%	
ALB	ATS	CP	Japan	LL	t1	450	587	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	5				
ALB	ATS	CP	Japan	LL	t2	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	316	316	238	1370	921	973	1194	2903	3106	ab	ab	ab	ab	ab	6	1.3%	91%	
ALB	ATS	CP	South Africa	RR	t1	56	60	55	54	36	89	10	209	127				73	58	377	323	82	201	288	324	1696	1028	1855	1529	1268						6				
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	1.3%	92%		
ALB	ATS	CP	EU.España	LL	t1		0	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	7				
ALB	ATS	CP	EU.España	LL	t2	ab	ab	ab	ab	-1	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	8	1.0%	93%		
ALB	ATS	CP	St. Vincent and Grenadines	LL	t1													2116	4292	44				65	160	71	51	31	94	92	97	110	100	107	101	98	8			
ALB	ATS	CP	St. Vincent and Grenadines	LL	t2													-1	-1	a		a		a	a	a	a	a	a	a	-1	ab	a	ab	ab	ab	8			
ALB	ATS	CP	Brazil	BB	t1		2	29	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	9	1.0%	94%
ALB	ATS	CP	Brazil	BB	t2	a	a	a	a			-1	a	a	a	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	a	9			
ALB	ATS	CP	EU.Portugal	BB	t1	557	732	81	184	483	1185	655	494	256	124	232	486	40	433	415	9																10	0.9%	95%	
ALB	ATS	CP	EU.Portugal	BB	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	a	a	10			
ALB	ATS	CP	Namibia	LL	t1																															11	0.8%	96%		
ALB	ATS	CP	Namibia	LL	t2																															11				
ALB	ATS	CP	EU.España	PS	t1																															12	0.6%	97%		
ALB	ATS	CP	EU.España	PS	t2	b	b	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	b	ac	ac	ac	abc	a	12				
ALB	ATS	CP	EU.France	PS	t1																															13	0.4%	97%		
ALB	ATS	CP	EU.France	PS	t2	a	a	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	abc	a	13			
ALB	ATS	CP	Vanuatu	LL	t1																															14	0.4%	97%		
ALB	ATS	CP	Vanuatu	LL	t2																															14				
ALB	ATS	CP	Belize	LL	t1																															15	0.3%	98%		
ALB	ATS	CP	Belize	LL	t2																															15				
ALB	ATS	CP	South Africa	LL	t1		0																													16	0.3%	98%		
ALB	ATS	CP	South Africa	LL	t2	-1																															16			

Table3. ALB-M stock

					T1 Total	4060	1896	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	2434						
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum			
ALB	MED	CP	EU.Italy	LL	t1	165	624	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	1	35.9%	36%		
ALB	MED	CP	EU.Italy	LL	t2	-1	-1	-1	-1	b	a		-1	-1	-1	-1	-1	ab	b	-1	b	b	b	b	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	1					
ALB	MED	CP	EU.Italy	GN	t1	110	565	668	1025	873	759	1027	1383	1222	1222	2254	916	379	397																	2	12.0%	48%			
ALB	MED	CP	EU.Italy	GN	t2	-1	a	a	a	ab	a		-1	-1	-1	-1	-1	ab	b	-1	b															2					
ALB	MED	CP	EU.Italy	PS	t1																															3	11.7%	60%			
ALB	MED	CP	EU.Italy	PS	t2																															3					
ALB	MED	CP	EU.Greece	UN	t1	500	500	500	500	1	1		952	741	1152	1950	1735	1786	1304																	4	10.9%	71%			
ALB	MED	CP	EU.Greece	UN	t2	-1	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1	-1	-1																	4				
ALB	MED	CP	EU.Greece	LL	t1												35	33	40	36																5	5.6%	76%			
ALB	MED	CP	EU.Greece	LL	t2													-1	-1	-1	-1	a	445	427	323	242	257	191	116	125	126	126	165	287	541	1332	608	522	5		
ALB	MED	CP	EU.Cyprus	LL	t1																17	243	337	451	695	204	220	206	247	321	357	385	505	558	568	624	6	5.6%	82%		
ALB	MED	CP	EU.Cyprus	LL	t2																a	109	148	322	421	208	204	277	338	385	238	270	52	48	206	70	6				
ALB	MED	CP	EU.España	LL	t1																																7	3.6%	85%		
ALB	MED	CP	EU.España	LL	t2																																7				
ALB	MED	CP	EU.Italy	UN	t1	3254						1	1																								8	3.1%	88%		
ALB	MED	CP	EU.Italy	UN	t2	-1						-1	-1								b	b	b	b		-1											8				
ALB	MED	CP	Turkey	GN	t1																																9	2.5%	91%		
ALB	MED	CP	Turkey	GN	t2																																9				
ALB	MED	CP	EU.España	BB	t1		83	499	171	231	81	163	205																								10	1.6%	93%		
ALB	MED	CP	EU.España	BB	t2		ac	ac	ac	c	ac	ac	ac																								10				
ALB	MED	CP	Libya	LL	t1																																11	1.5%	94%		
ALB	MED	CP	Libya	LL	t2																																11				
ALB	MED	CP	EU.Greece	PS	t1																																12	1.3%	95%		
ALB	MED	CP	EU.Greece	PS	t2																																12				
ALB	MED	CP	EU.España	TR	t1		48	50	59	129	306	119	202	45	73																						13	1.1%	96%		
ALB	MED	CP	EU.España	TR	t2		abc	abc	abc	abc	abc	abc	abc	abc	abc	abc																					13				

Table 4. BFT-E stock (ATE region)

				T1 Total	5451	6313	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	5968	7216	8157					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum	
BFT	ATE	CP	Japan	LL	t1	838	1464	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	1	27.8%	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	1		
BFT	ATE	CP	EU.España	BB	t1	2378	1614	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	2	23.1%	51%	
BFT	ATE	CP	EU.España	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2		
BFT	ATE	CP	EU.España	TP	t1	1174	2181	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	3	17.3%	68%	
BFT	ATE	CP	EU.España	TP	t2	c	ac	ac	ab	ab	ac	ab	ab	ab	ab	ac	ac	ab	ac	c	c	abc	b	a	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	bc	3			
BFT	ATE	CP	Maroc	TP	t1	318	323	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	4	15.4%	84%	
BFT	ATE	CP	Maroc	TP	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	-1	-1	-1	-1	bc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	4			
BFT	ATE	CP	EU.France	TW	t1	22	101	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	5	3.5%	87%	
BFT	ATE	CP	EU.France	TW	t2	-1	-1	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	abc	abc	ab	ab	abc	abc	ab	ab	b	ab	ab	a	5		
BFT	ATE	CP	Maroc	PS	t1	147	54	46	462	24	213	458	323	828	692	709	660	150	884	490	855	871	179													6	3.4%	90%	
BFT	ATE	CP	Maroc	PS	t2	-1	b	b		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6			
BFT	ATE	CP	EU.France	BB	t1	306	367	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	7	1.9%	92%	
BFT	ATE	CP	EU.France	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	ab	ab	b	ab	a	a	7		
BFT	ATE	CP	EU.Portugal	LL	t1	0	14	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	8	1.1%	93%		
BFT	ATE	CP	EU.Portugal	LL	t2	-1	-1	a	a		-1	a	-1	-1	a	-1	-1	a	a	a	a	ab	a	a	a	a	a	a		a	a		b	ab	ab	ab	8		
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	9	1.1%	95%	
BFT	ATE	CP	EU.Portugal	TP	t2							b	abc	ac	ac	ab	ab	ab	ab	ab	b	b	b	b	b	b	ab	ab	b	ab	ab	ab	ab	ab	ab	9			
BFT	ATE	NCC	Chinese Taipei	LL	t1	109				6	20	4	61	226	350	222	144	304	158				10	4												10	0.7%	95%	
BFT	ATE	NCC	Chinese Taipei	LL	t2	a				-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab			ab	ab													10		
BFT	ATE	CP	EU.France	GN	t1	31	42	47	74	497	21	144	253	3	72	71	57	68	6																	11	0.6%	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	11			
BFT	ATE	CP	China PR	LL	t1										85	103	80	68	39	19	41	24	42	72	119	42	38	36	36	38	37	45	54	64	79	12	0.5%	96%	
BFT	ATE	CP	China PR	LL	t2										-1	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	ab	a	a	abc	ab	abc	abc	12		
BFT	ATE	CP	EU.Portugal	BB	t1	1	12	5	4	2	219	34	80	447	252	5	2	2	7	1	8	6	7	1												13	0.5%	97%	
BFT	ATE	CP	EU.Portugal	BB	t2	ab	a		-1	a	ab	ab	ab	ab	ab	ab	a	a	a	ab	abc	ab	a	a			a						abc	a	8	ab	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	59	35	101	107	14	0.5%	97%
BFT	ATE	CP	EU.España	HL	t2							ab	ac	ac	ab	ac	ac	ac	c	c	ab	c	c	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	14			
BFT	ATE	CP	Korea Rep.	LL	t1					4	205	92	203				6	1		0	3		1										161	181	208	15	0.5%	98%	
BFT	ATE	CP	Korea Rep.	LL	t2					-1	-1	a	a				a	a		a	a		-1									abc	abc	abc	abc	15			

Table 5. BFT-E stock (MED region)

		T1 Total	15710	17286	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	19600								
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum		
BFT	MED	NCO	NEI (inflated)	PS	t1										9471	16893	16458	15298	15880	18873	18376	14164	18343	28234										1	21.5%	21%				
BFT	MED	NCO	NEI (inflated)	PS	t2										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										1						
BFT	MED	CP	EU.France	PS	t1	4404	4663	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	2	19.8%	41%		
BFT	MED	CP	EU.France	PS	t2	abc	bc	bc	b	b	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	ab	abc	abc	abc	ab	ab	abc	abc	b	ab	ac	a	2				
BFT	MED	CP	EU.Italy	PS	t1	3195	2651	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	3	11.4%	53%		
BFT	MED	CP	EU.Italy	PS	t2	b	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	-1	b	b	b	b	a	4311	ab	abc	abc	-1	abc	-1	b	b	b	-1	-1	-1	3			
BFT	MED	CP	Turkey	PS	t1	1707	2059	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	4	7.3%	60%		
BFT	MED	CP	Turkey	PS	t2	b	-1	-1	b	b	b	b	b	b	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	918	879	665	409	528	536	551	544	1091	1324	1515	1273	4			
BFT	MED	CP	Tunisie	PS	t1	94	114	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	2092	5	6.1%	66%		
BFT	MED	CP	Tunisie	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	abc	abc	ab	ab	ab	ab	ab	ab	b	ab	ab	abc	5				
BFT	MED	CP	EU.España	PS	t1	300	635	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	6	5.4%	72%		
BFT	MED	CP	EU.España	PS	t2	b	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	ab	ab	ab	ab	ab	ab	ab	bc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	-1	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	7	2.9%	74%		
BFT	MED	CP	EU.Croatia	PS	t2			a	a	a	a	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7				
BFT	MED	CP	Libya	PS	t1	129	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	8	2.5%	77%		
BFT	MED	CP	Libya	PS	t2	-1	-1	b	-1	-1	-1	-1	-1	-1	-1	a	a		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	b	ab	ab	-1	-1	8				
BFT	MED	CP	Algerie	PS	t1	574	547	560	773	768	1092				900	1056	778	917	922	640	753	623	850	650	972				69	244	244	370	448	1038	1300	9	2.1%	79%		
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	ab	abc	ab	ab	b	b	-1	-1	9			
BFT	MED	CP	EU.Italy	LL	t1	144	79	102	78	135	1018	2100	1620	674	515	287	260	395	475	302	310	286	217	216	193	521	670	256	180	115	312	434	411	528	10	1.9%	81%			
BFT	MED	CP	EU.Italy	LL	t2	-1	-1	a	a	b	ab	b	b	-1	ab	-1	-1	-1	b	ab	b	b	ab	ab	abc	abc	abc	abc	abc	ac	abc	abc	abc	bc	ab	10				
BFT	MED	CP	EU.España	LL	t1	260	149	277	371	187	245	435	416	871	253	418	493	644	436	583	529	484	668	745	804	590	240	58	26	24	34	57	490	126	232	11	1.4%	82%		
BFT	MED	CP	EU.España	LL	t2	ac	abc	ab	ab	ab	abc	ab	ab	ab	ac	ab	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	11			
BFT	MED	CP	Libya	LL	t1	173	164	372	67	802	865	656	925	920	900	1002	1867	331	170	393	318	187	158	51	34											12	1.3%	84%		
BFT	MED	CP	Libya	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	b	b	b	b	12						
BFT	MED	CP	EU.Greece	HL	t1	105	124	98	348	339	766	915	784	1127	279	233	597	341	394	245	73		6	7	93	66	135	52	39	35	78	90	34	45	69	13	0.9%	85%		
BFT	MED	CP	EU.Greece	HL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	-1	-1	13				
BFT	MED	CP	Japan	LL	t1	127	172	85	123	793	536	813	765	185	361	381	136	152	390	316	638	378	556	466	80	18									14	0.9%	86%			
BFT	MED	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	abc	ac	abc	a	abc								14					
BFT	MED	CP	Panama	LL	t1	74	287	484	467	1499	1498	2850	236																						15	0.9%	86%			
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	15					
BFT	MED	CP	Algerie	LL	t1									482	672	175	179	801	503	806	706	501	712	748	754	339									16	0.9%	87%			
BFT	MED	CP	Algerie	LL	t2									-1	-1	-1	-1	b	b	b	b	b	-1	ab	ab	b									16					
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	17	0.9%	88%		
BFT	MED	CP	Maroc	HL	t2					-1	c	-1	-1	-1	abc	ab	abc	b	b	b	b	b	b	b	b	b	b	abc	abc	abc	abc	abc	ab	abc	abc	17				
BFT	MED	CP	EU.Italy	TP	t1	301	285	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	18	0.9%	89%		
BFT	MED	CP	EU.Italy	TP	t2	-1	-1	-1	c	b	bc	bc	b	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	abc	ac	-1	-1	-1	-1	-1	-1	18			
BFT	MED	CP	EU.Malta	LL	t1	29	81	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	19	0.8%	90%		
BFT	MED	CP	EU.Malta	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	-1	-1	-1	-1	abc	bc	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	19				
BFT	MED	NCO	NEI (combined)	PS	t1	19	49	49		773	211		101	1030	1995	109	571	508	610	709															20	0.8%	91%			
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	20					
BFT	MED	CP	EU.Italy	RR	t1	111	332	364	336	470	775	766	277	235	9	245	217	229	340	284	284	283	157			17	58	165	66	8	10	10	11		15	18	21	0.8%	92%	
BFT	MED	CP	EU.Italy	RR	t2	-1	-1	-1	-1	-1	-1	b	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21			
BFT	MED	CP	EU.France	LL	t1						60	580	500	300	246							300	130	309	226	614	134	131	184	112	112	232	234	238	259	289	368	22	0.7%	92%
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	-1	-1	-1	-1	-1	-1	-1	22				
BFT	MED	CP	EU.Italy	HL	t1	369	714	197	189	152	179	226	205	301	5	340	171	184	283	229	241	229	133	16	12	14	93	130	25	51	50	79			128	23	0.6%</			

Table 6. BFT-W stock

				T1 Total	2766	2782	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					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum	
BFT	ATW	CP	U.S.A.	RR	t1	557	752	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	1	32.2%	32%	
BFT	ATW	CP	U.S.A.	RR	t2	abc	abc	abc	abc	abc	abc	abc	bc	abc	abc	abc	abc	abc	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2	18.5%	51%	
BFT	ATW	CP	Japan	LL	t1	468	550	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	2			
BFT	ATW	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3	13.6%	64%	
BFT	ATW	CP	Canada	RR	t1		28	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	3			
BFT	ATW	CP	Canada	RR	t2	a	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	4	9.7%	74%
BFT	ATW	CP	U.S.A.	LL	t1	244	275	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	4			
BFT	ATW	CP	U.S.A.	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	b	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	5	6.7%	81%	
BFT	ATW	CP	U.S.A.	PS	t1	385	384	237	300	295	301	249	245	250	249	248	275	196	208	265	32	178	4	28			11		2	43	42	39				5			
BFT	ATW	CP	U.S.A.	PS	t2	bc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	b	b	c	bc			bc		bc	bc	bc	bc	bc	bc	6	6.0%	87%		
BFT	ATW	CP	Canada	TL	t1	579	404	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	6			
BFT	ATW	CP	Canada	TL	t2	b	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	7	3.6%	90%
BFT	ATW	CP	U.S.A.	HP	t1	187	129	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	7			
BFT	ATW	CP	U.S.A.	HP	t2	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	8	2.5%	93%	
BFT	ATW	CP	U.S.A.	HL	t1	227	210	341	218	224	228	66	33	17	29	15	3	9	4			1	2	0			1	0	3	1	1	0		1	5	1	8		
BFT	ATW	CP	U.S.A.	HL	t2	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	b	b	b	b	c			c	bc	bc	bc	bc	bc	bc	bc	bc	bc	9	2.0%	95%	
BFT	ATW	CP	Canada	LL	t1	53	4	6	9	25	5	4	22	12	32	31	47	20	53	28	43	36	48	58	30	64	89	112	65	67	61	74	85	74	91	9			
BFT	ATW	CP	Canada	LL	t2	b	ab	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	10	1.2%	96%
BFT	ATW	CP	Canada	TP	t1	1	2			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	10		
BFT	ATW	CP	Canada	TP	t2	b	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	11	1.1%	97%
BFT	ATW	NCO	NEI (Flag related)	LL	t1											429	270	49																		11			
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	12	1.0%	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	12		
BFT	ATW	CP	Mexico	LL	t1	7	2	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	13	0.9%	99%	
BFT	ATW	CP	Mexico	LL	t2	-1	-1	-1	-1	-1	ab	b	ab	ab	ab	ab	ab	bc	ab	b	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	13		

Table 7. BET-A stock (AT + MD)

			T1 Total	78722	85264	97197	100117	113861	134933	128148	120803	110280	107994	121541	103510	91051	75658	87487	89981	67956	59192	69998	63172	76426	76041	76606	71457	66954	75019	79524	79109	78585	73397	Rank	%	%cum				
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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					
BET	A+M	CP	Japan	LL	t1	39419	35024	29488	34128	35053	38503	35477	33171	26490	24330	21833	24605	18087	15306	19572	18509	14026	15735	17993	16684	16395	15205	12306	15390	13397	13603	12390	10365	10994	9881	1	24.2%	24%		
BET	A+M	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	ab	1			
BET	A+M	NCC	Chinese Taipei	LL	t1	940	5744	13850	11546	13426	19680	18023	21850	19242	16314	16837	16795	16429	18483	21563	17717	11984	2965	12116	10418	13252	13189	13732	10819	10316	13272	16453	13115	11845	11630	2	15.5%	40%		
BET	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	2			
BET	A+M	CP	EU. España	PS	t1	5091	6302	9395	9362	12495	12700	9971	8970	6240	4863	5508	6901	5923	7038	6595	4187	3155	3416	3359	5456	8019	7910	8050	7485	6849	6464	5574	6808	6064	4925	3	7.7%	47%		
BET	A+M	CP	EU. España	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	3			
BET	A+M	NCO	NEI (Flag related)	LL	t1	4650	5856	8982	6146	4378	8964	10697	11862	16565	23484	22190	15092	7907	383																	4	5.5%	53%		
BET	A+M	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	4				
BET	A+M	CP	EU. España	BB	t1	2761	3814	5484	5518	4901	9848	8073	6248	6260	2165	8563	4084	3897	3164	4158	3838	4417	3783	3007	1959	3868	2819	4506	2913	2389	3463	3508	3835	4811	2991	5	4.9%	58%		
BET	A+M	CP	EU. España	BB	t2	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	5			
BET	A+M	CP	EU. Portugal	BB	t1	5279	6159	5598	5639	5493	3036	9629	5810	5437	6334	3314	1498	1605	2420	1572	3161	3721	4626	4872	2738	5121	2872	6470	5986	5240	3737	3012	1677	2698	3870	6	4.8%	63%		
BET	A+M	CP	EU. Portugal	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	6			
BET	A+M	CP	EU. France	PS	t1	1502	2636	3971	5682	11733	11046	7076	7128	4671	4149	4056	4620	3584	3668	3628	2736	2135	2481	1157	1039	2193	3294	3663	3766	3253	3528	2531	4184	3629	3882	7	4.6%	67%		
BET	A+M	CP	EU. France	PS	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	7				
BET	A+M	CP	China PR	LL	t1					70	428	476	520	427	1503	7347	6564	7210	5840	7890	6555	6200	7200	7399	5686	4973	5489	3720	3231	2371	2232	4942	5852	5514	4823	8	4.3%	72%		
BET	A+M	CP	China PR	LL	t2				-1	b	b	b				-1	a	ab	ab	a	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8			
BET	A+M	CP	Ghana	PS	t1								1328	2970	3138	6648	3468	5621	5606	5330	6201	5444	2136	2369	2868	3558	5370	3030	4111	2503	3373	5336	4856	3524	3085	9	3.5%	75%		
BET	A+M	CP	Ghana	PS	t2								abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	9			
BET	A+M	CP	Ghana	BB	t1	2158	5031	4090	2866	3577	4738	5517	3423	7204	7509	5056	2164	4242	873	3731	11687	3416	171	190	504	957	883	511	358	460	802	582	338	314	486	10	3.2%	78%		
BET	A+M	CP	Ghana	BB	t2	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	10			
BET	A+M	CP	Panama	PS	t1	85	717	1013	2517	4113	5378	4304	1934	431	175	319	378	89	63			1521	2461	2521	3057	2360	2490	3085	3531	1736	2853	2341	1289	2022	1559	1664	11	2.1%	80%	
BET	A+M	CP	Panama	PS	t2	b	b	ab	a	ab	ab	ab	ab	ab	ab	a	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ac	11			
BET	A+M	CP	Curaçao	PS	t1								1893	2890	2919	3428	2359	2803	1879	2758	3343	13	441	272	1734	2465	2747	3488	2950	1998	2357	2573	3598	2844	3530	12	2.1%	82%		
BET	A+M	CP	Curaçao	PS	t2								ab	ab	ab	a	ab	ab	ab	ab	ab	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ac	12				
BET	A+M	CP	Panama	LL	t1	3157	5258	6320	7474	5998	7709	5623	2843	1667	1077			484	473	148															315	105	404	13	1.8%	84%
BET	A+M	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	13				
BET	A+M	CP	Brazil	LL	t1	512	591	350	790	1256	596	1935	1707	1237	644	2024	2762	2534	2582	2374	1453	1015	1423	927	785	1009	1055	1452	1165	1377	1966	2606	2322	2171	1595	14	1.7%	86%		
BET	A+M	CP	Brazil	LL	t2	ab	ab	ab	ab	ab	ab	ab	a	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	14			
BET	A+M	CP	Korea Rep.	LL	t1	7896	2690	802	866	377	386	423	1250	796	163	124	43	1	87	143	629	770	2067	2136	2599	2134	2646	2762	1908	1151	1039	677	562	432	623	15	1.4%	87%		
BET	A+M	CP	Korea Rep.	LL	t2	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	abc	abc	abc	abc	abc	abc	abc	abc	15			
BET	A+M	CP	EU. France	BB	t1	2040	2739	2258	1892	2018	2187	2000	2357	1746	1942	1998	1921	1593	786	758	587	597	571	261	141	269	156	238	175	25	74	51	135	127	171	16	1.2%	89%		
BET	A+M	CP	EU. France	BB	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a	16			
BET	A+M	CP	Brazil	HL	t1																		3	7	0	69	22	210	555	2012	4332	4967	5336	5086	3401	17	1.0%	90%		
BET	A+M	CP	Brazil	HL	t2																		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	17				
BET	A+M	CP	Philippines	LL	t1																															18	0.9%	90%		
BET	A+M	CP	Philippines	LL	t2																															18				
BET	A+M	CP	Cape Verde	PS	t1																															19	0.7%	91%		
BET	A+M	CP	Cape Verde	PS	t2																															19				
BET	A+M	CP	U.S.A.	LL	t1	600	559	855	564	836	943	982	713	795	696	930	532	682	536	284	310	312	521	381	428	430	443	603	582	509	584	574	386	568	391	20	0.7%	92%		
BET	A+M	CP	U.S.A.	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	20			
BET	A+M	CP	Senegal	BB	t1	1			5		4	8	180	136	218	735	1372	915	1159	497	322	490	770	1318	1292	734	1143	954	455	432	599	359	501	577	287	159	21	0.6%	92%	
BET	A+M	CP	Senegal	BB	t2	ab	b	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	21				
BET	A+M	CP	Guatemala	PS	t1																															22	0.5%	93%		
BET	A+M	CP	Guatemala	PS	t2																															22				
BET	A+M	CP	EU. España	LL	t1	603	481																																	

Table 8. YFT-E region

					T1 Total																																	
					12554	160853	130626	126058	124702	125524	119404	116132	104978	113594	104947	96692	113123	105105	97598	88303	75569	77613	76264	93745	99131	97189	94678	91652	82848	88947	102182	114057	100041	104140				
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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			
YFT	ATE	CP	EU España	PS	t1	60746	66565	51762	48952	40044	39734	37707	31866	23901	28282	19332	24764	30433	30343	23665	20454	11121	10607	12833	23557	32140	24191	18238	17898	11336	13463	19918	17802	10817	9932			
YFT	ATE	CP	EU España	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab			
YFT	ATE	CP	EU France	PS	t1	28827	42431	31199	31894	35031	34396	28877	32633	29737	31123	31010	30287	31871	31600	32344	23961	22319	18480	10934	15981	18748	20093	21772	18590	20390	20878	19239	25766	25611	24451			
YFT	ATE	CP	EU France	PS	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a			
YFT	ATE	CP	Ghana	BB	t1	6855	11808	9074	9223	13283	9984	9268	5640	9459	9139	11810	7451	11605	7426	6711	9943	6655	9173	10174	7325	6257	6301	6771	5774	4521	6049	6391	6761	5661	5624			
YFT	ATE	CP	Ghana	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	a			
YFT	ATE	CP	Ghana	PS	t1	180	180	180	108					2542	5628	4710	9640	5222	12240	11120	9127	5502	6364	4865	5396	9197	9602	13951	11730	10697	9400	12890	13269	13457	14738	17536		
YFT	ATE	CP	Ghana	PS	t2	-1	-1	-1	-1	-1			abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	a			
YFT	ATE	CP	Panama	PS	t1	3131	7207	6623	7041		7781	8548	10854		5759	3137	1753		775	1087	574	1022		1887	6325	8682	9539	6289	5911	5102	4459	5058	4062	4646	3202	4305	5073	4071
YFT	ATE	CP	Panama	PS	t2	b	b		ab	a	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac		
YFT	ATE	CP	Curacao	PS	t1									3183	6082	6110		3962	5441	4793	4035		6185	4161	15	1964	1390	7367	6469	5397	4501	6906	3813	5230	6140	7905	6535	7543
YFT	ATE	CP	Curacao	PS	t2									ab	ab	ab	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ac		
YFT	ATE	CP	Japan	LL	t1	3792	4185	3020	2124	2627	4194	4770	4246	2733	4092		2101	2286	1550	1534		1999	5066	3088	4206	8496	5266	3563	3041	3348	3637	3843	3358	2857	2914	2709	2953	
YFT	ATE	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab		
YFT	ATE	CP	Cape Verde	PS	t1					a								0	6	12	884	246	356	5110	4443	3556	7295	3620	4954	5260	3469	6424	3591	6651	4933	1491	3926	
YFT	ATE	CP	Cape Verde	PS	t2													a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		
YFT	ATE	NCC	Chinese Taipei	LL	t1	96	2244	2163		1554	1301	3851	2681	3985	2993	3643		3389	4014	2787		3363	4946	4145	2327	860	1707	807	1180	537	1463	819	1023	902	927	761	563	550
YFT	ATE	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	
YFT	ATE	CP	Guatemala	PS	t1																	2207	1588	2963	5300	3478	3768	2612	3158	2811	2961	4036	3773	5200	2703	3647	2499	
YFT	ATE	CP	Guatemala	PS	t2																	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac		
YFT	ATE	CP	Belize	PS	t1																																	
YFT	ATE	CP	Belize	PS	t2																																	
YFT	ATE	CP	EU España	BB	t1	1182	2384	2623	1758	1498	1767	1101	3069		996	3509		1311	601	504		917	1379	1292	798	928	769	1055	874	1561	3010	973	593	1043	1068	1393	1416	696
YFT	ATE	CP	EU España	BB	t2	abc	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc		
YFT	ATE	CP	Maroc	PS	t1	2305	5306	1799	2653	2396	3017	2290	3430	1947	2276		2307	2441	3000	2032	1567	719	1757	127														
YFT	ATE	CP	Maroc	PS	t2	b	b	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		
YFT	ATE	CP	Cape Verde	HL	t1	1985	1634	1272	1202		1344	1560	1362	1289	1299	1145	1185	1388	1374		918	1617	1501	985	1218	1048	648	1121	1054	800	1164	1167	1167	1167	2057	1265	1572	
YFT	ATE	CP	Cape Verde	HL	t2	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	
YFT	ATE	NCO	NEI (Flag related)	LL	t1	280	1115	2310	1315	1157	2524	2975	3588	3368	5464		5182	3072	2019		43	466																
YFT	ATE	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
YFT	ATE	CP	EU France	BB	t1	2197	3671	4571	3103	2587	2533	1764	1658	887	319	1068		416	684	1444	757	585	596	588	430	186	378	360	609	258	29	322	340	432	283	171		
YFT	ATE	CP	EU France	BB	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a		
YFT	ATE	CP	St. Vincent and Grenadines	PS	t1		510	4936	5391	2476	2142	2969	3017	3327		1916	1987	3640																		1		
YFT	ATE	CP	St. Vincent and Grenadines	PS	t2		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	b																	
YFT	ATE	CP	Russian Federation	PS	t1		3200	1862	2160	1503	2936	2696	4275	4931		4359	737																					
YFT	ATE	CP	Russian Federation	PS	t2	-1	b	-1	b	b	b	-1	b	b	-1	b	-1	b	-1	-1																		
YFT	ATE	CP	El Salvador	PS	t1																																	
YFT	ATE	CP	El Salvador	PS	t2																																	
YFT	ATE	CP	Panama	LL	t1																																	
YFT	ATE	CP	Panama	LL	t2	901	1498	1270		1297	3134	3422	2588	1954	1156	358	385	219	52	90																		
YFT	ATE	NCO	Mixed flags (EU tropical)	PS	t1	259	230	998	571	744	688	876	254	452	291	216	423	42	13		298	570	292	251	416	464	467	857	1601									
YFT	ATE	NCO	Mixed flags (EU tropical)	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			
YFT	ATE	CP	Senegal	BB	t1	191	89	52			9	1	94	77	152	248	663	194	279	558	253	576	1106	1347	1068	682	1024	895	1199	1839	1052	491	583	692	241	290		
YFT	ATE	CP	Senegal	BB	t2	ab	ab	a			a	a	a	ac	a	a	ab	ab	ab	ab	ab	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac		
YFT	ATE	CP	Senegal	PS	t1	69	3																															
YFT	ATE	CP	Senegal	PS	t2	a	a																															
																																			</			

Table 9. YFT-W region

			T1 Total																																						
			36921	32731	36897	37712	38745	48215	35274	33056	32341	30919	31207	35623	40317	29665	24982	31255	29498	28272	24167	18123	18777	20855	18921	23285	23440	24468	26116	34817	35824	31427									
Species	Stock	Status	VegName	GearGrp	Dset	1989	1990	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	Rank	%	%cum			
YFT	ATW	CP	Venezuela	PS	t1	11612	6533	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	2553	1	20.9%	21%			
YFT	ATW	CP	Venezuela	PS	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	1	8.7%	30%			
YFT	ATW	CP	U.S.A.	RR	t1	1930	545	1418	957	1898	4523	4053	4032	3569	2927	3967	3862	4185	2887	5328	3759	3657	4908	2966	1033	1011	1231	1498	1727	687	1621	1660	2743	2904	1770	2	8.6%	38%			
YFT	ATW	CP	U.S.A.	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	3	8.3%	38%			
YFT	ATW	CP	U.S.A.	LL	t1	6247	4474	4141	5337	3886	3246	3645	3320	3773	2949	3541	2901	2200	2573	2164	2492	1746	2010	2395	1394	1686	1218	1462	2270	1544	1446	1041	1300	1431	837	4	7.2%	54%			
YFT	ATW	CP	U.S.A.	LL	t2	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	5	7.0%	61%			
YFT	ATW	CP	Brazil	HL	t1						60	18	69	156																					6	4.8%	46%				
YFT	ATW	CP	Brazil	HL	t2					b	-1	-1	-1	-1																						4	5.2%	54%			
YFT	ATW	CP	Venezuela	BB	t1	3458	3765	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	566	5	7.2%	54%			
YFT	ATW	CP	Venezuela	BB	t2	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6	7.0%	61%			
YFT	ATW	CP	Brazil	LL	t1	1157	805	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	7	4.7%	65%			
YFT	ATW	CP	Brazil	LL	t2	a	ab	ab	ab	a	ab	a	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	8	4.2%	70%			
YFT	ATW	CP	Brazil	BB	t1	1376	953	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	7	4.7%	65%			
YFT	ATW	CP	Brazil	BB	t2	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	7	4.2%	70%			
YFT	ATW	NCC	Chinese Taipei	LL	t1	762	5221	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	8	4.2%	70%			
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	8	3.3%	73%			
YFT	ATW	CP	Japan	LL	t1	3178	1734	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	9	3.3%	73%			
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	9	3.2%	76%		
YFT	ATW	CP	Mexico	LL	t1	345	112	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	10	3.1%	79%			
YFT	ATW	CP	Mexico	LL	t2	-1	-1	-1	-1	ab	abc	ab	abc	ab	ab	ab	a	ab	bc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	11	3.1%	79%			
YFT	ATW	CP	St. Vincent and Grenadines	LL	t1																														12						
YFT	ATW	CP	St. Vincent and Grenadines	LL	t2																														11						
YFT	ATW	NCO	NEI (Flag related)	LL	t1	2500	2985	2008	2521	1514	1880	1227	2374	2732	2875	1578	2197	765	14	112															12	3.0%	82%				
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	12						
YFT	ATW	CP	Panama	LL	t1	1595	2651	2249	2297																										13	2.9%	85%				
YFT	ATW	CP	Panama	LL	t2	-1	-1	-1	-1	-1																									13						
YFT	ATW	CP	Venezuela	LL	t1	497	258	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	1005	14	2.2%	87%			
YFT	ATW	CP	Venezuela	LL	t2	b	b	ab	-1	a	a	a	a	a	a	ab	ab	a	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	-1	14					
YFT	ATW	CP	Trinidad and Tobago	LL	t1	10	303	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	15	1.6%	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	a	a	a	a	a	a	a	a	a	a	a	a	a	a	15					
YFT	ATW	NCO	Colombia	PS	t1						2404	3418	7172																							16	1.4%	90%			
YFT	ATW	NCO	Colombia	PS	t2						-1	-1	-1																							16					
YFT	ATW	CP	Grenada	LL	t1	235	530	620	595	858	385	409	523	302	484	430	403	759	593	749	460	492	502	633	756	630	673									17	1.3%	92%			
YFT	ATW	CP	Grenada	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	a	17					
YFT	ATW	CP	Vanuatu	LL	t1																															18	0.6%	92%			
YFT	ATW	CP	Vanuatu	LL	t2																															18					
YFT	ATW	CP	Belize	LL	t1																															19	0.5%	93%			
YFT	ATW	CP	Belize	LL	t2																															19					
YFT	ATW	CP	Barbados	LL	t1	62	89	108	179	161	156	255	160	149	150	155	155	142	115	146	181	243	160	133	135	60	86	103	145	175	194	258	316	217	225	20	0.5%	93%			
YFT	ATW	CP	Barbados	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20					
YFT	ATW	CP	China PR	LL	t1																															21	0.5%	94%			
YFT	ATW	CP	China PR	LL	t2																															21					
YFT	ATW	CP	EU.France	LL	t1																															22	0.5%	94%			
YFT	ATW	CP	EU.France	LL	t2																															22					
YFT	ATW	CP	Korea Rep.	LL	t1																															23	0.5%	95%			
YFT	ATW	CP	Korea Rep.	LL	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	23						
YFT	ATW	CP	EU.España	PS	t1						1451	1290	810																							24	0.5%	95%			
YFT	ATW	CP	EU.España	PS	t2						a	abc	a	a	a	ac	ac	a	a	ac	a	a	ac	a	a	abc	abc	abc	abc	abc	abc	ac	abc	ac	a	ac	a	24			
YFT	ATW	NCC	Suriname	LL	t1																															25	0.4%	96%			
YFT	ATW	NCC	Suriname	LL	t2																																				

Table 10. SKJ-E stock

			T1 Total																																				95021	118937	190065	141050	176600	161437	152933	129629	117217	132384	153484	126328	132182	101042	130755	154558	143982	111924	118192	123082	137828	163875	187073	218663	224143	205208	221192	235206	244938	282427			
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum																																	
SKJ	ATE	CP	EU.España	PS	t1	30957	45077	78877	50579	66402	49987	48733	33947	33428	29976	42714	37145	27798	21596	39396	33421	18718	14975	17675	27918	30041	34175	46823	48185	57594	43139	38754	41085	46867	39807	1	24.3%	24%																																	
SKJ	ATE	CP	EU.España	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1																																		
SKJ	ATE	CP	Ghana	BB	t1	22163	23663	24464	18379	19637	21258	18607	20115	20315	25895	31134	22919	44464	18516	18094	34151	26042	20597	22845	13893	19743	13731	16012	16736	11269	10111	12369	13420	9450	10847	2	12.4%	37%																																	
SKJ	ATE	CP	Ghana	BB	t2	abc	ac	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	a		2																																		
SKJ	ATE	CP	Ghana	PS	t1								4090	6065	17717	22954	13598	13076	21677	16341	13595	28167	11337	12574	24755	24179	31773	28157	37528	36861	40035	49745	41464	48458	55940	3	12.4%	49%																																	
SKJ	ATE	CP	Ghana	PS	t2							abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	a		3																																		
SKJ	ATE	CP	EU.France	PS	t1	12971	16393	36875	25738	39637	37806	28059	23856	16736	17850	22317	21426	15829	15899	21505	23224	13523	5770	3580	3948	7722	14582	13569	13395	16022	17085	20253	18164	15392	21983	4	11.6%	61%																																	
SKJ	ATE	CP	EU.France	PS	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a		4																																	
SKJ	ATE	CP	Curaçao	PS	t1								7096	8444	8553	9932	10008	13370	5427	10092	8708	88	3213	1703	6541	10060	9594	12380	13324	18312	18437	19621	22180	20660	24539	5	5.4%	66%																																	
SKJ	ATE	CP	Curaçao	PS	t2							ab	ab	ab	a	ab	ab	ab	ab	ab	ab	b	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	5																																		
SKJ	ATE	CP	Panama	PS	t1	1041	4839	8247	8719	12939	12845	14853	5855	1300	ab	572	1117	1374	281	342			7126	12286	14016	19798	8946	9199	9944	13119	11211	15520	14565	8372	11510	8815	9089	6	5.1%	71%																															
SKJ	ATE	CP	Panama	PS	t2	b	b	ab	a	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ac	6																																	
SKJ	ATE	CP	EU.España	BB	t1	5838	4645	5907	7195	3217	5270	5760	5044	7075	8593	5607	3780	3156	3836	7174	7207	10119	7633	6378	8345	8647	8405	11674	19445	10185	9951	7269	10994	10560	13085	7	4.8%	76%																																	
SKJ	ATE	CP	EU.España	BB	t2	abc	abc	ac	ac	ac	ac	ac	ac	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	7																																		
SKJ	ATE	CP	EU.Portugal	BB	t1	7715	3954	7987	7412	5598	7510	4986	8276	4395	4519	1800	1285	2135	2940	4276	8459	4687	11001	8604	5734	904	12859	4078	2758	4039	1703	1296	695	1752	6985	8	3.1%	79%																																	
SKJ	ATE	CP	EU.Portugal	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	8																																	
SKJ	ATE	CP	Cape Verde	PS	t1								8	18	21	1				300	366	54	1040	7498	4862	5434	4872	5387	5823	8277	5680	16135	16307	17292	9425	5895	6698	9	2.5%	82%																															
SKJ	ATE	CP	Cape Verde	PS	t2				a				a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	9																																		
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t1	1341	1192	5176	2959	3858	3568	4543	1316	2345	1508	1119	2194	218	65	1547	2953	1708	1478	3003	2998	2624	3427	2372								10	2.1%	84%																																	
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b			-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	b	-1	-1	-1	-1	10																																	
SKJ	ATE	CP	Belize	PS	t1											720		229	278																	11	2.0%	86%																																	
SKJ	ATE	CP	Belize	PS	t2											a		ab	ab	ab	ab	b					1488	3109	7797	15733	6854	11080	12599	7730	9958	20748	11																																		
SKJ	ATE	CP	Guatemala	PS	t1																	2120	4808	6649	5028	5612	6481	4095	3087	2880	3732	4979	5904	7078	7386	9800	8648	12	1.8%	88%																															
SKJ	ATE	CP	Guatemala	PS	t2																ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	13	1.4%	89%																																	
SKJ	ATE	CP	Senegal	PS	t1		309	8									284	152																		13																																			
SKJ	ATE	CP	Senegal	PS	t2	ab	a									-1	-1																	abc	abc	ac	14																																		
SKJ	ATE	CP	Maroc	PS	t1	1222	6831	1745	598	3637	3596	6740	2728	5468	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	1076	14	1.3%	90%																																
SKJ	ATE	CP	Maroc	PS	t2	b	b	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	-1	14																																	
SKJ	ATE	CP	Senegal	BB	t1	402	123	343		55	64	282	238	429	1699	1632	1357	1284	1178	639	1446	5033	3858	4552	3045	4506	2707	5383	4414	4490	3092	1895	2495	2740	1085	15	1.3%	92%																																	
SKJ	ATE	CP	Senegal	BB	t2	ab	ab	a		a	a	a	a	a	a	a	ab	a	ab	ab	ab	ab	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	15																																		
SKJ	ATE	CP	El Salvador	PS	t1																																16	1.1%	93%																																
SKJ	ATE	CP	El Salvador	PS	t2																																16																																		
SKJ	ATE	CP	EU.France	BB	t1	3802	3352	1147	1507	2153	2546	2697	1698	3701	4179	2343	1497	2550	2305	1878	1752	2240	1610	795	778	1186	904	932	1382	682	750	939	1270	1275	933	17	1.1%	94%																																	
SKJ	ATE	CP	EU.France	BB	t2	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	a		17																																
SKJ	ATE	CP	Vanuatu	PS	t1			5281	5468	10808	10896	8477	5992	1233			1192																					18	1.0%	95%																															
SKJ	ATE	CP	Vanuatu	PS	t2	b		a	a	a	a	a	a	a	a		a																				18																																		
SKJ	ATE	CP	Guinée Rep.	PS	t1								975	6432	2408							387			330	118	359	2114	3252	10321	9033	7629					19	0.9%	96%																																
SKJ	ATE	CP	Guinée Rep.	PS	t2							a	a	a								-1	-1	-1	-1	-1	a	ac	ac	ac							19																																		
SKJ	ATE	CP	Côte d'Ivoire	GN	t1																	1173	259	292	143	559	1259	1565	1817	2328	2840	2840	3883	4926	5188	311	254	373	1533	22	0.7%	97%																													
SKJ	ATE	CP	Côte d'Ivoire	GN	t2																	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	ab	a	ab	-1	20																																	

Table 11. SKJ-W stock

						T1 Total	26382	26110	33404	30155	33221	29949	21860	27562	31712	29087	27356	29193	31451	21600	24749	27461	28517	26453	25443	22022	25774	25866	32390	32848	34872	27196	20711	22083	23568	22873				
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
SKJ	ATW	CP	Brazil	BB	t1	20750	20130	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	1	80.1%	80%		
SKJ	ATW	CP	Brazil	BB	t2	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	-1	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	ab	a	1				
SKJ	ATW	CP	Venezuela	PS	t1	2430	3014	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	2012	2	10.4%	91%		
SKJ	ATW	CP	Venezuela	PS	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	3				
SKJ	ATW	NCO	Cuba	BB	t1	1449	1443	1596	1638	1017	1268	886	1000	1000	651	651	651																			4				
SKJ	ATW	NCO	Cuba	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		b		-1	-1	-1	-1	-1											3	1.9%	92%		
SKJ	ATW	CP	Venezuela	BB	t1	1293	777	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	167	4	1.7%	94%		
SKJ	ATW	CP	Venezuela	BB	t2	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	5				
SKJ	ATW	CP	Brazil	HL	t1									0										5			4	159	244	222	369	465	1169	5293	4461	5	1.5%	96%		
SKJ	ATW	CP	Brazil	HL	t2									-1										-1			-1	a	-1	-1	-1	a	-1	ab	ab	6				
SKJ	ATW	CP	Brazil	PS	t1										743	219	240	473	108	116																7				
SKJ	ATW	CP	Brazil	PS	t2										-1	-1	a	-1	-1	-1				a	a	a	a	a	a							6	0.6%	96%		
SKJ	ATW	CP	EU.España	PS	t1																															6				
SKJ	ATW	CP	EU.España	PS	t2			1592	1120	397			ac	ac	a	ac		a	ac				ac			abc	abc	abc	abc	abc	ac	abc	ac		641	223	109	7	0.5%	97%
SKJ	ATW	CP	Brazil	LL	t1		0	2	9		6	30	9						38							3	825	323	41	88	39	170	645	199	260	8	0.3%	97%		
SKJ	ATW	CP	Brazil	LL	t2		-1	b	a		-1	-1	-1						-1	a	a					-1	a	b	a		-1	-1	-1	-1	a	-1	8			
SKJ	ATW	NCO	Colombia	UN	t1						789	1583																									9	0.3%	97%	
SKJ	ATW	NCO	Colombia	UN	t2						-1	-1																									9			
SKJ	ATW	CP	U.S.A.	RR	t1																																10	0.3%	98%	
SKJ	ATW	CP	U.S.A.	RR	t2	a	19	66	86	49	81	66	21	82	64	86	99	30	49	70	61	74	15	49	52	49	102	45	77	104	115	172	92	176	195	76	10			
SKJ	ATW	CP	U.S.A.	RR	t2	ab	ab	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	10			
SKJ	ATW	NCO	Sta. Lucia	TR	t1															106	132	137	159	120	89	168										11	0.3%	98%		
SKJ	ATW	NCO	Sta. Lucia	TR	t2															-1	-1	-1	-1	-1	-1	-1											11			
SKJ	ATW	NCO	Colombia	PS	t1						2074																										12	0.3%	98%	
SKJ	ATW	NCO	Colombia	PS	t2						-1																										12			

Table 12. SWO-N stock

						T1 Total	17250	15672	14934	15394	16738	15501	16872	15222	13025	12223	11622	11453	10011	9654	11442	12068	12373	11470	12302	11050	12081	11553	12523	13868	12069	10678	10673	10376	10169	8863				
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
SWO	ATN	CP	EU.España	LL	t1	5696	5736	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	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	ac	abc	abc	abc	abc	1				
SWO	ATN	CP	U.S.A.	LL	t1	5855	4967	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	1105	2	23.7%	63%		
SWO	ATN	CP	U.S.A.	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	2			
SWO	ATN	CP	Canada	LL	t1	1097	819	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	3	9.5%	72%		
SWO	ATN	CP	Canada	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	bc	abc	abc	abc	bc	bc	abc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3		
SWO	ATN	CP	EU.Portugal	LL	t1	292	463	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	1171	1751	1670	4	8.4%	81%		
SWO	ATN	CP	EU.Portugal	LL	t2	ab	ab	ab	abc	ac	ab	ab	ab	ab	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4		
SWO	ATN	CP	Japan	LL	t1	1572	1051	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	5	6.4%	87%		
SWO	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	5			
SWO	ATN	CP	Maroc	LL	t1	219	24	92	41	27	7	28	35	239		35	38	264	154	223	255	325	333	229	428	720	963	700	700	1000	1000	800	800	750	950	6	3.0%	90%		
SWO	ATN	CP	Maroc	LL	t2	-1	-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	abc	ab	abc	abc	6				
SWO	ATN	NCC	Chinese Taipei	LL	t1	17	269	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	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	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7			
SWO	ATN	CP	Canada	HP	t1	150	92	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	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	9	0.8%	94%		
SWO	ATN	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	9			
SWO	ATN	CP	EU.España	GN	t1	949	646	124	316	202	150		20																								10	0.6%	94%	
SWO	ATN	CP	EU.España	GN	t2	ac	ac	ab		-1	-1	-1																									10			
SWO	ATN	CP	Trinidad and Tobago	LL	t1	79	66	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	3	11	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	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	11			
SWO	ATN	CP	U.S.A.	GN	t1	524	535	82	86	92	88	74	78	0	36		0		0		0			0		0		0									12	0.4%	95%	
SWO	ATN	CP	U.S.A.	GN	t2	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	ab	ab	12		
SWO	ATN	CP	U.S.A.	HL	t1					38		0	1		5	9	9	12	21	23	35	33	125	94	125	129	121	155	105	88	77	76	62	132	13	0.4%	96%			
SWO	ATN	CP	U.S.A.	HL	t2					-1		-1	b	b	c	bc	bc	c	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	13		
SWO	ATN	CP	Korea Rep.	LL	t1	320	51	3	3	19	16	16	19	15									51	65	175	157	3		170	46	83	35	2	9	19	9	14	0.3%	96%	
SWO	ATN	CP	Korea Rep.	LL	t2	ab	ab	a	ab	a	a	a	a	a									a	a	a	a	a	a	a	a	a	a	a	a	a	a	14			
SWO	ATN	CP	Maroc	GN	t1	19	9	4	2	13	32	322	13	179	60	51	243	64	98	76	9																15	0.3%	96%	
SWO	ATN	CP	Maroc	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	c	ac	ac	ac	-1	b	b	b														15			
SWO	ATN	CP	EU.France	UN	t1	75	75	75	95		38	97	164								32	102	178	0	46	14	3	1	0	1							16	0.3%	97%	
SWO	ATN	CP	EU.France	UN	t2	-1	-1	-1	c	c		-1	-1	-1						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								16			
SWO	ATN	CP	Belize	LL	t1																																17	0.3%	97%	
SWO	ATN	CP	Belize	LL	t2																																17			
SWO	ATN	CP	Venezuela	LL	t1	2	4	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		18	0.2%	97%		
SWO	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a			18			

Table 13. SWO-S stock

						T1 Total	17055	17304	13893	13813	16130	18958	21930	18289	18542	14027	15502	15728	15128	14104	12634	13081	13163	14245	15630	12546	12848	12698	11455	10686	9169	9956	10338	10658	10556	10404				
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
SWO	ATS	CP	EU España	LL	t1	7725	6166	5760	5651	6974	7937	11290	9622	8461	5832	5758	6388	5789	5741	4527	5483	5402	5300	5283	4073	5183	5801	4700	4852	4184	4113	5059	4992	4654	4404	1	42.1%	42%		
SWO	ATS	CP	EU España	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac		1				
SWO	ATS	CP	Brazil	LL	t1	1168	1696	1312	2609	2013	1571	1970	1892	4100	3844	4721	4579	4075	2903	2917	2914	3780	4120	3892	3152	3132	2657	2800	2831	2381	2892	2594	2935	2406	2792	2	20.6%	63%		
SWO	ATS	CP	Brazil	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab		2			
SWO	ATS	CP	Japan	LL	t1	4019	6708	4459	2870	5256	4699	3619	2197	1494	1186	775	790	685	833	924	686	480	1090	2155	1600	1340	1314	1233	1162	684	976	659	637	915	640	3	13.3%	76%		
SWO	ATS	CP	Japan	LL	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab		3		
SWO	ATS	NCC	Chinese Taipei	LL	t1	610	896	1453	1686	846	2829	2876	2873	2562	1147	1168	1303	1149	1164	1254	745	744	377	671	727	612	410	428	496	582	451	554	480	527	472	4	7.6%	84%		
SWO	ATS	NCC	Chinese Taipei	LL	t2	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	abc	abc	abc	abc		4		
SWO	ATS	CP	Uruguay	LL	t1	414	302	156	210	260	165	499	644	760	889	650	713	789	768	850	1105	843	620	464	370	501	222	179	40	103						5	3.0%	87%		
SWO	ATS	CP	Uruguay	LL	t2	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		5				
SWO	ATS	CP	Namibia	LL	t1						22						374	452	607	504	187	549	832	1118	1038	518	25	408	366	22	129	395	225	466	600	881	6	2.3%	89%	
SWO	ATS	CP	Namibia	LL	t2												a	ab	a		a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	abc	bc		6			
SWO	ATS	CP	EU.Portugal	LL	t1							380	389	441	384	381	392	393	380	354	345	493	440	428	271	367	232	263	184	125	252	236	250	466	369	7	2.0%	91%		
SWO	ATS	CP	EU.Portugal	LL	t2							a	a	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		7		
SWO	ATS	CP	China PR	LL	t1											29	534	344	200	423	353	278	91	300	473	470	291	296	248	316	196	206	328	222	302	355	8	1.5%	92%	
SWO	ATS	CP	China PR	LL	t2												a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	abc	ab	abc	abc	abc		8			
SWO	ATS	CP	South Africa	LL	t1							1					240	143	327	547	649	293	295	199	186	207	142	170	145	97	50	171	152	218	164	189	189	9	1.1%	94%
SWO	ATS	CP	South Africa	LL	t2												ab	ab	ab	ac	abc	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab		9		
SWO	ATS	CP	Ghana	GN	t1	156	146	73	69	121	51	103	140	44	106	121	117	531	372	734	343	55	32	65	177	132	116	60	54	37	26	56	36	55	6	10	1.0%	95%		
SWO	ATS	CP	Ghana	GN	t2	-1	-1	-1	-1	-1	-1	-1	ab	b	ab	b	ab	ab	ab	ab	ab	ab	ab	a	ab	a	ab	a	a	a	a	a	a	a	a	a		10		
SWO	ATS	CP	S. Tomé e Príncipe	TR	t1	207	181	179	177	202	190	178	166	148	135	129	120	120	120	120	126	147	138	138	172	188	193	60	84	60	94	145	77	65		11	1.0%	96%		
SWO	ATS	CP	S. Tomé e Príncipe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		11			
SWO	ATS	NCO	Cuba	LL	t1	830	448	209	246	192	452	778	60	60																							12	0.8%	96%	
SWO	ATS	NCO	Cuba	LL	t2	a	a		-1	-1	-1	-1	-1	-1	-1																							12		
SWO	ATS	CP	Korea Rep.	LL	t1	776	50	147	147	198	164	164	7	18	7	5	10	0	2	24	70	36	94	176	223	10	147	70	65	47	53	5	19	11	18	13	0.7%	97%		
SWO	ATS	CP	Korea Rep.	LL	t2	ab	ab	ab	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	-1	a	-1	abc	abc	a	abc	ab	abc		13		
SWO	ATS	CP	Senegal	LL	t1																																	14	0.4%	97%
SWO	ATS	CP	Senegal	LL	t2																																	14		

Table 14. SWO-M stock

				T1 Total	17762	16018	15746	14709	13265	16082	13015	12053	14693	14369	13699	15569	15006	12814	15694	14405	14622	14915	14227	12164	11840	13265	11450	9913	9096	9801	10751	10921	8402	7079					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum	
SWO	MED	CP	EU.Italy	LL	t1	2989	2454	2470	3518	3260	3844	3035	2617	2458	2458	2680	2639	2236	1841	5844	5452	5560	5253	4564	4521	4687	5101	4579	3856	2848	3384	4213	3917	2974	1754	1	27.2%	27%	
SWO	MED	CP	EU.Italy	LL	t2	-1	b	ab	ab	b	ab	b	b	b	ab	b	ab	b	b	b	b	b	b	b	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	1			
SWO	MED	CP	EU.Italy	GN	t1	2542	4353	3142	4077	3070	3921	4264	2657	3632	3632	3632	4863	4152	1698	2540	1483	1891	2373	1948								0			2	15.2%	42%		
SWO	MED	CP	EU.Italy	GN	t2	-1	ab	ab	ab	ab	ab	b	b	b	b	b	ab	b	a	b	b	b	b	-1												2			
SWO	MED	CP	EU.España	LL	t1	1250	1438	1132	790	1293	1402	1351	1040	1184	1409	867	1396	1402	1421	1165	930	860	1405	1648	2063	1994	1785	1730	1580	1605	2019	2289	1732	1487	1470	3	11.0%	53%	
SWO	MED	CP	EU.España	LL	t2	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3		
SWO	MED	CP	EU.Greece	LL	t1	1120	1344	1904	1456	1568	2520	974	1237	750	1650	1520	1960	1730	1680	1230	1129	1424	1374	1907	989	1132	1494	1306	877	1731	1344	761	761	392	350	4	10.1%	63%	
SWO	MED	CP	EU.Greece	LL	t2	-1	ab	ab	ab	ab	ab	ab	ab	-1	-1	ab	ab	ab	b	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	ab	ab	4			
SWO	MED	CP	Maroc	GN	t1		866	1186	1883	2068	2109	1518	2461	4653	2905	2979	2503	2266	2230	1629	1299	722	603	615	587	477	410	387							5	9.2%	73%		
SWO	MED	CP	Maroc	GN	t2		-1	-1	-1	-1	b		-1	-1	-1	c	bc	abc	abc	b	b	b	b	b	abc	-1	abc	abc								5			
SWO	MED	CP	Maroc	LL	t1	97	371	508	807	517	527	169	273	245	323	259	205	754	1149	1670	1954	1801	1455	1107	1370	1110	1200	640	802	770	770	480	1110	1000	1013	6	6.2%	79%	
SWO	MED	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	bc	abc	abc	abc	abc	abc	abc	6			
SWO	MED	CP	Tunisie	LL	t1	159	176	181	178	354	298	378	352	346	414	468	483	567	1138	285	791	791	949	1024	1011	1012	1016	1040	1038	1036	1030	1034	1007	1003	974	7	5.2%	84%	
SWO	MED	CP	Tunisie	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			
SWO	MED	CP	EU.Italy	UN	t1	7478	2294	2926				11					3							5	329		694	718		3	32				0	8	3.7%	88%	
SWO	MED	CP	EU.Italy	UN	t2	-1	-1	-1				-1					-1		b			b	b		-1	-1		-1	-1	bc	-1			-1	8				
SWO	MED	CP	Algerie	LL	t1	590	173	173	6	173	185	247	247	178	126	166	439	347	238	174	93	496	492	802	468	459	192	356	384	549	558	666	550	528	9	2.6%	90%		
SWO	MED	CP	Algerie	LL	t2	-1	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	92		-1	-1	ab	ab	ab	ab	ab	-1	-1	-1	9		
SWO	MED	CP	EU.Malta	LL	t1	122	135	129	85	91	47	72	72	100	153	187	175	102	257	163	195	362	239	213	260	266	423	532	503	460	376	489	410	330	308	10	1.8%	92%	
SWO	MED	CP	EU.Malta	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	ac	-1	-1	-1	abc	bc	ab	abc	ab	ab	ab	abc	ab	abc	abc	abc	abc	10			
SWO	MED	CP	Turkey	GN	t1	209	243	100	136	292	533	306	320	350	450	230	370	360	300	274	317	341	337	352												11	1.5%	94%	
SWO	MED	CP	Turkey	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	ac	ac	c						11			
SWO	MED	CP	Algerie	GN	t1											590	531	599	642	467	427	233	311	87	108										12	1.0%	95%		
SWO	MED	CP	Algerie	GN	t2											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										12				
SWO	MED	CP	Algerie	UN	t1		539	389	389	389	415	560	560	560																						13	1.0%	96%	
SWO	MED	CP	Algerie	UN	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																				13			
SWO	MED	NCO	NEI (MED)	LL	t1	598	918	733	733																											14	0.8%	97%	
SWO	MED	NCO	NEI (MED)	LL	t2	-1	-1	-1	-1	-1																										14			
SWO	MED	CP	Turkey	LL	t1																															15	0.7%	97%	
SWO	MED	CP	Turkey	LL	t2																															15			

Table 15. BUM-A stock (AT + MD)

[illegible]

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

						T1 Total	1923	1739	1743	1557	1681	2202	1880	1679	1513	1945	1786	1535	1078	1012	845	841	768	612	748	711	753	504	530	464	640	436	480	442	422	304				
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
WHM	A+M	NCC	Chinese Taipei	LL	t1	983	895	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	1	29.0%	29%		
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	136	154	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	137	2	15.0%	44%		
WHM	A+M	CP	Venezuela	LL	t2	-1	-1	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	b	2				
WHM	A+M	CP	Brazil	LL	t1	204	201	377	211	301	91	101	70	105	102	158	106	172	342	266	a	80	243	87	63	41	32	29	74	67	241	98	121	67	47	62	3	12.7%	57%	
WHM	A+M	CP	Brazil	LL	t2	ab	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	a	a	ab	ab	ab	ab	ab	ab	ab	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																4	8.4%	65%		
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	4				
WHM	A+M	CP	EU.España	LL	t1	13	12	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	5.3%	70%		
WHM	A+M	CP	EU.España	LL	t2	-1	-1	-1	a	b	ab	b	ab	b	ab	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	5				
WHM	A+M	CP	Japan	LL	t1	146	126	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	6	5.2%	76%		
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	7				
WHM	A+M	CP	U.S.A.	LL	t1	107	82	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	7	3.3%	79%		
WHM	A+M	CP	U.S.A.	LL	t2	a	a	a	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	7				
WHM	A+M	NCO	NEI (BIL)	LL	t1					1	1	1					34	78	4	30	134	42	38	180	214	210	2	13	2	1	0	0	4	6	3	8	3.1%	82%		
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	8				
WHM	A+M	CP	Korea Rep.	LL	t1	135	81	57	10	8	43	23	59	23	35	39	0																			9	2.9%	85%		
WHM	A+M	CP	Korea Rep.	LL	t2	a	a	a	a	a	a	a	a	a	a	a	-1	-1	-1			-1	a	a												9				
WHM	A+M	CP	S. Tomé e Príncipe	TR	t1	16	19	26	24	17	21	21	30	45	40	36	37	37	37	37	21	33	29	35	36	37	38	39	40	41	42	17	15	13	10	2.7%	87%			
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	10				
WHM	A+M	CP	Barbados	LL	t1	11	39	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	11	1.8%	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	a	a	a	ab	ab	ab	a	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	12	1.3%	91%		
WHM	A+M	CP	Mexico	LL	t2					ab	ab	b	ab	ab	ab	ab	ab	ab	b	b	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	7	6	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%	92%		
WHM	A+M	CP	Trinidad and Tobago	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	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	1.0%	93%
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	a	a	a	a	a	a	a	a	a	14			
WHM	A+M	NCO	Mixed flags (FR+ES)	PS	t1	27	37	11	10	12	11	9	7	7	9	8	12	13	12	13	13	11	10	9	10	12	12	37								15	0.9%	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	15			
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			16	0.8%	94%		
WHM	A+M	CP	EU.Portugal	LL	t2											-1	-1			-1	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	16				
WHM	A+M	CP	Ghana	GN	t1	68	31	17	14	22	1	2	1	3	7	6	8	21	2	1	1	1	0	1	4	4	3	1	1	1	1	1	1	1	0	17	0.7%	95%		
WHM	A+M	CP	Ghana	GN	t2	a	a	a	a	a	a	a	a	a	-1	b	ab	-1	b	ab	-1	b	ab	-1	-1	-1	-1	-1	-1	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	2							18	0.6%	96%		
WHM	A+M	CP	China PR	LL	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	18			
WHM	A+M	CP	Brazil	UN	t1											115						0	0	4	8	15	21	6	0	1						19	0.5%	96%		
WHM	A+M	CP	Brazil	UN	t2											-1						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19			

Table 17. SAI-E stock

				T1 Total	1710	2315	1474	1776	1814	1171	1231	1880	1347	1363	1342	1980	2805	2351	2639	2612	2220	1916	2577	2229	2129	1853	1553	1591	1339	1163	1246	1422	1650	1183						
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum		
SAI	ATE	CP	Ghana	GN	t1	465	395	463	297	693	450	353	303	196	351	305	275	568	592	566	521	542	282	420	342	358	417	299	201	220	191	99	238	267	82	1	20.0%	20%		
SAI	ATE	CP	Ghana	GN	t2	-1	-1	-1	-1	-1	a	-1	-1	b	ab	b	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	a	a	a	2	15.1%	35%		
SAI	ATE	CP	Senegal	HL	t1	445	957	429	692	448	67	135	182	488	228	186	551	767	98	282	219	143	46	189	108	575	439	136	58	117	9	53			94	3	13.2%	48%		
SAI	ATE	CP	Senegal	HL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	a	a	a	ab	ab	a	a	a	a	a	-1	4	8.9%	57%		
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t1	432	595	174	150	182	160	128	97	110	138	131	353	400	365	413	336	264	274	205	251	308	265	275	275	275	275					5	8.3%	66%		
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6	6.8%	72%		
SAI	ATE	CP	S. Tomé e Príncipe	TR	t1	86	97	84	78	81	88	92	96	139	141	141	136	136	136	136	515	346	292	384	114	119	121	124	127	131	134	312	212	219			7	5.1%	77%	
SAI	ATE	CP	S. Tomé e Príncipe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8	3.3%	81%	
SAI	ATE	CP	EU.España	LL	t1	14	0	13	3	42	8	13	42	48	15	20	8	195	245	197	169	202	214	227	239	318	206	197	257	229	302	333	225	233	277	9	2.6%	83%		
SAI	ATE	CP	EU.España	LL	t2	-1	-1	-1	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	b	b	b	-1	-1	b	b	b	b	b	10	2.6%	86%	
SAI	ATE	CP	Senegal	TR	t1	99	53	27	141	11	90	29	52	59	24	44	213	155	123	337	343	296	177	512	158	18		104	25							11	2.3%	88%		
SAI	ATE	CP	Senegal	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	b	a	b	b	b	b	-1	12	2.2%	91%		
SAI	ATE	CP	Côte d'Ivoire	GN	t1	55	58	38	69	40	54	66	91	65	35	80	45	47	65	121	73	93	78	52	448	74	24	108	192	80	99	52	38	400	17	13	2.2%	93%		
SAI	ATE	CP	Côte d'Ivoire	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	-1	a	-1	-1	a	a	ab	a	a	ab	-1	14	2.1%	95%		
SAI	ATE	CP	Japan	LL	t1	26	31	6	15	27	45	52	47	19	58	16	26	6	20	22	70	50	62	144	199	94	115	143	157	71	59	36	52	45	47	15	1.3%	96%		
SAI	ATE	CP	Japan	LL	t2	ab	ab	ab	ab	-1	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	16	1.1%	97%
SAI	ATE	NCC	Chinese Taipei	LL	t1	3	5	4	80	157	38	58	24	56	44	66	45	50	62	49	15	25	36	109	121	80	21	52	59	42	17	27	24	30	23	9	2.6%	83%		
SAI	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	17			
SAI	ATE	CP	Liberia	GN	t1							33	85	43	136	122	154	56	133	127	106	122	118	115										59	11	10	2.6%	86%		
SAI	ATE	CP	Liberia	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18			
SAI	ATE	NCO	Cuba	LL	t1	53	61	184	200	77	83	72	533																								19			
SAI	ATE	NCO	Cuba	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20		
SAI	ATE	NCO	NEI (BIL)	LL	t1													28	269	408	213	55	1	105	43	20	11										21			
SAI	ATE	NCO	NEI (BIL)	LL	t2													-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22		
SAI	ATE	CP	Senegal	GN	t1	8	30	10	14	2	3	3	6	3	5	0	8	28	19	15	1	22	27	28	180	35	45	38	85	21	26	7	373	87	67		23			
SAI	ATE	CP	Senegal	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	24		
SAI	ATE	CP	EU.Portugal	LL	t1											27	42	9	1	5	10	6	11	137	43	49	112	142	96	70	108	33	41	30	27	123	25			
SAI	ATE	CP	EU.Portugal	LL	t2											-1	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	26		
SAI	ATE	NCO	NEI (ETRO)	LL	t1					27	51	57	69	86	127	120	77	43	3	2	16	7	8	10													27			
SAI	ATE	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	28		
SAI	ATE	NCO	Togo	GN	t1											9	22	36	23	62	55	95	135	47	31	71											29			
SAI	ATE	NCO	Togo	GN	t2											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	30		

Table 18. SAI-W stock

				T1 Total	1052	1235	1226	1463	1414	1121	1214	1143	1257	1615	1580	1996	1797	2060	1498	1727	1839	1939	1561	1733	1624	1229	1335	1275	985	859	898	1214	1080	1250					
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum	
SAI	ATW	CP	Venezuela	LL	t1	108	94	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	262	1	19.4%	19%	
SAI	ATW	CP	Venezuela	LL	t2	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	2	11.3%	31%	
SAI	ATW	CP	EU.España	LL	t1	0	0	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	2			
SAI	ATW	CP	EU.España	LL	t2	-1	-1	-1	-1	b	b	-1	b	b	-1	b	b	b	b	-1	b	-1	b	-1	b	b	b	-1	-1	-1	-1	b	b	b	b	3	11.1%	42%	
SAI	ATW	CP	Grenada	LL	t1	98	218	316	310	246	151	119	56	83	151	148	164	187	151	171	112	147	159	174	216	183	191	191	191	191	191	191	191	191	3				
SAI	ATW	CP	Grenada	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	11.0%	53%	
SAI	ATW	CP	Brazil	LL	t1	124	98	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	4			
SAI	ATW	CP	Brazil	LL	t2	ab	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	5	7.6%	60%	
SAI	ATW	CP	U.S.A.	RR	t1	324	242	341	290	201	179	342	230	349	267	163	76	58	103	b	b	b	0	0	0	0	3	3	0	0	7	3	2	2	3	3	5		
SAI	ATW	CP	U.S.A.	RR	t2	ab	ab	ab	ab	ab	ab	b	ab	b	ab	b	b	-1	b	b	b	b	b	b	b	ab	b	b	b	b	b	b	b	b	b	6	5.7%	66%	
SAI	ATW	CP	Brazil	UN	t1	184	33	21	41	143	224	67	78	78	67	222	238	326	0	58	60	193	360	1	0	0	0	0	0	0	0	0	0	0	0	0	6		
SAI	ATW	CP	Brazil	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7	5.6%	72%
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							7			
SAI	ATW	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	a				8	3.1%	75%	
SAI	ATW	NCO	Cuba	LL	t1	55	126	83	70	42	46	37	37	40	28	196	208	68	32	18	50	72	47	56												8			
SAI	ATW	NCO	Cuba	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	3.1%	78%
SAI	ATW	NCO	Dominican Republic	LL	t1											101	89	27	67	81	260	91	144	165	133	147										9			
SAI	ATW	NCO	Dominican Republic	LL	t2											-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	10	2.7%	81%	
SAI	ATW	CP	Barbados	LL	t1	69	45	29	42	50	46	74	25	71	58	44	44	42	26	27	26	42	58	42													10		
SAI	ATW	CP	Barbados	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	11	2.5%	83%
SAI	ATW	CP	Mexico	LL	t1					2	19	10	9	65	40	118	36	34	45	51	55	42	47	45	48	34	32	51	63	42	35	47	51	24	11				
SAI	ATW	CP	Mexico	LL	t2					a	a	-1	a	a	a	a	a	-1	a	a	a	a	abc	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	12	2.4%	86%
SAI	ATW	NCO	NEI (BIL)	LL	t1													297	268					68	81	252	17	21								12			
SAI	ATW	NCO	NEI (BIL)	LL	t2													-1	-1					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	13	2.1%	88%	
SAI	ATW	CP	Panama	LL	t1																																13		
SAI	ATW	CP	Panama	LL	t2																																14	1.8%	89%
SAI	ATW	CP	U.S.A.	LL	t1	57	62	a	a	44	65	29	a	30	69	57	27	72	45	11	7	5	7	3	5	7	9	10	4	10	18	11	11	6	7	6	14		
SAI	ATW	CP	U.S.A.	LL	t2	a	a	a	a	a	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	15	1.8%	91%
SAI	ATW	NCC	Chinese Taipei	LL	t1	86	42	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	15			
SAI	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	16	1.4%	93%
SAI	ATW	CP	Trinidad and Tobago	LL	t1	9	4	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	16			
SAI	ATW	CP	Trinidad and Tobago	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	a	a	17	1.3%	94%
SAI	ATW	CP	St. Vincent and Grenadines	LL	t1																																17		
SAI	ATW	CP	St. Vincent and Grenadines	LL	t2																																17		
SAI	ATW	NCO	Dominican Republic	UN	t1	44	40	31	98	50	90	40	40																								18	1.0%	95%
SAI	ATW	NCO	Dominican Republic	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	18		
SAI	ATW	CP	EU.Portugal	LL	t1													4																			19	0.9%	96%
SAI	ATW	CP	EU.Portugal	LL	t2													a	a							a	a	a	a	a	a	a	a	a	a	a	19		

Table 19. SPF-E stock

					T1 Total	310	417	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				
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum	
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	270	373	107	92	112	98	78	59	68	86	81	60																			1	36.2%	36%	
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																		1			
SPF	ATE	NCC	Chinese Taipei	LL	t1	4	8	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	2	30.7%	67%	
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	ab	ab	a	a	ab	3	23.7%	91%	
SPF	ATE	CP	Japan	LL	t1	31	32	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	16	3			
SPF	ATE	CP	Japan	LL	t2	b	b		-1	b	ab	ab	a	a	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	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	4	5.8%	96%
SPF	ATE	CP	EU.España	LL	t2				-1	b		-1	b	b	b	b	b	b	b	-1		b	b			2	7	32	12	10	9	13	17	10	13	13	4		
SPF	ATE	CP	EU.Portugal	LL	t1																														5	2.4%	99%		
SPF	ATE	CP	EU.Portugal	LL	t2																														5				
SPF	ATE	CP	Korea Rep.	LL	t1																														6	0.6%	99%		
SPF	ATE	CP	Korea Rep.	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a																			6				
SPF	ATE	CP	St. Vincent and Grenadines	LL	t1																														7	0.3%	100%		
SPF	ATE	CP	St. Vincent and Grenadines	LL	t2																														7				
SPF	ATE	CP	Senegal	LL	t1																														8	0.1%	100%		
SPF	ATE	CP	Senegal	LL	t2																														8				
SPF	ATE	NCO	NEI (BIL)	LL	t1																														9	0.1%	100%		
SPF	ATE	NCO	NEI (BIL)	LL	t2																														9				
SPF	ATE	CP	China PR	LL	t1																														10	0.1%	100%		
SPF	ATE	CP	China PR	LL	t2																														10				

Table 20. SPF-W stock

			T1 Total	108	64	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	321	127							
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum		
SPF	ATW	NCC	Chinese Taipei	LL	t1	85	41	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	1	23.2%	23%		
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	-1		ab	ab	ab	a	ab	ab	ab	ab	ab	1				
SPF	ATW	CP	Japan	LL	t1	10	13	46	1	1	2	3	4	1	8	11	11	3	12	40	41	58	54	25	45	26	57	12	13	3	1				0	2	16.3%	40%		
SPF	ATW	CP	Japan	LL	t2	b	b	-1	b		a	a	a	a	a	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	a	ab	b		a	2					
SPF	ATW	CP	EU.España	LL	t1				0	5		1			0	0	22	47	20	5	21		5	14		2	5		10	10	9	11	19	14	259	19	3	16.2%	56%	
SPF	ATW	CP	EU.España	LL	t2				-1	b	b		-1	b	b		-1	b	b	b	b		b	b		-1	b	b	-1	b	b		-1	-1	b	b	-1	3		
SPF	ATW	CP	Brazil	LL	t1											27	56	39	3			0	5		4				24	4	310		6			4				
SPF	ATW	CP	Brazil	LL	t2											-1	-1	-1	a	a	a	a	a	ab	4		a	ab	a	a	a	a	a	-1		-1	4			
SPF	ATW	CP	St. Vincent and Grenadines	LL	t1																															5				
SPF	ATW	CP	St. Vincent and Grenadines	LL	t2																																4			
SPF	ATW	CP	Venezuela	LL	t1																																6			
SPF	ATW	CP	Venezuela	LL	t2				b		ab	ab	b	a	a	ab	ab	ab	ab																			6		
SPF	ATW	CP	EU.Portugal	LL	t1																																7			
SPF	ATW	CP	EU.Portugal	LL	t2																																7			
SPF	ATW	CP	Korea Rep.	LL	t1	5	9	0	1	2	4	4	10	4																							8			
SPF	ATW	CP	Korea Rep.	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																							8		
SPF	ATW	CP	Brazil	HL	t1																																9			
SPF	ATW	CP	Brazil	HL	t2																																	9		
SPF	ATW	CP	Belize	LL	t1																																10			
SPF	ATW	CP	Belize	LL	t2																																	10		
SPF	ATW	CP	Mexico	LL	t1																																	11		
SPF	ATW	CP	Mexico	LL	t2																																	11		

Table 21. BSH-N region

						T1 Total	1818	3038	4306	3561	9591	8592	8468	7396	29285	26764	26172	28174	21128	20066	23006	21741	22359	23218	26927	30725	35199	37180	38089	36782	37061	36579	39627	44068	39664	33853			
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	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	1	69.1%	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	1				
BSH	ATN	CP	EU Portugal	LL	t1		1387	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	2	16.5%	86%	
BSH	ATN	CP	EU Portugal	LL	t2		-1	-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	3	6.0%	92%	
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	3			
BSH	ATN	CP	Japan	LL	t2						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	a	a	a	a	a	a	a	4	2.4%	94%		
BSH	ATN	CP	Canada	LL	t1		978	680	774	1277	1702	1260	1494	528	831	612	547	624	581	836	346	965	1134	977	843	0	0	0	0	1	0	1	5	16	32	71	4		
BSH	ATN	CP	Canada	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	5			
BSH	ATN	CP	U.S.A.	LL	t1		480	742	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	5	1.0%	95%
BSH	ATN	CP	U.S.A.	LL	t2		-1	-1	-1	-1	-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	5			
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	6	0.7%	96%	
BSH	ATN	NCC	Chinese Taipei	LL	t2						-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6			
BSH	ATN	CP	Belize	LL	t1																					114	461	1039	903	1216	392	4	6	201	317	7	0.6%	96%	
BSH	ATN	CP	Belize	LL	t2																					ab	ab	ab	ab	a	a	a	a	ab	ab	7			
BSH	ATN	CP	Panama	LL	t1											9										254	892	613	1575		289	153	262	437	8	0.6%	97%		
BSH	ATN	CP	Panama	LL	t2											-1										a	a	a	a					-1	-1	8			
BSH	ATN	CP	EU.France	UN	t1		79	130	187	276	322	350	266	278	213	163	399	395	207	221	57	95	120	99	50	46	30	3	6	0	0	105	1	14	16	9	9	0.6%	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	9		
BSH	ATN	CP	Maroc	PS	t1																															10	0.5%	98%	
BSH	ATN	CP	Maroc	PS	t2																															10			
BSH	ATN	CP	U.S.A.	RR	t1		271	87	308	214	672	21	19	277	210	252	217	291	39																		11	0.4%	98%
BSH	ATN	CP	U.S.A.	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	11		
BSH	ATN	CP	Maroc	LL	t1																															12	0.3%	99%	
BSH	ATN	CP	Maroc	LL	t2																															12			
BSH	ATN	CP	China PR	LL	t1																															13	0.2%	99%	
BSH	ATN	CP	China PR	LL	t2																															13			
BSH	ATN	CP	Korea Rep.	LL	t1																															14	0.2%	99%	
BSH	ATN	CP	Korea Rep.	LL	t2																															14			

Table 22. BSH-S region

						T1 Total	0	0	8	107	10	2704	3108	4252	10145	8797	10829	12444	14044	12682	14966	14440	20642	20493	23487	23097	23459	27799	35069	26421	20672	26148	22498	25417	28373	34309			
Species	Stock	Status	FlagName	GearGrp	Dset	1989	1990	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	Rank	%	%cum	
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	1	45.3%	45%	
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			
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	2	16.9%	62%	
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	2		
BSH	ATS	CP	Namibia	LL	t1											0				2213	2316	1906	6616	3536	3419	1829	207	2351	2633	1176	1147	2471	2137	2775	1357	3290	3	8.9%	71%
BSH	ATS	CP	Namibia	LL	t2										-1				a	-1	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	ab	ab	3			
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	4	8.7%	80%	
BSH	ATS	CP	Brazil	LL	t2							-1	a			-1	ab	a	a	a	a	ab	a	ab	a	ab	ab	ab	ab	a	a	a	a	a	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	5	8.3%	88%
BSH	ATS	NCC	Chinese Taipei	LL	t2						-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	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	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	ab	ab	ab	a	a	a	a	a	a	a	a	6		
BSH	ATS	CP	Uruguay	LL	t1						84	57	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130						7	1.3%	96%	
BSH	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	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	8	0.9%	97%	
BSH	ATS	CP	South Africa	LL	t2										-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	8		
BSH	ATS	CP	Ghana	GN	t1																															9	0.7%	98%	
BSH	ATS	CP	Ghana	GN	t2																															9			
BSH	ATS	CP	China PR	LL	t1																															10	0.6%	98%	
BSH	ATS	CP	China PR	LL	t2																															10			
BSH	ATS	CP	Belize	LL	t1																															11	0.6%	99%	
BSH	ATS	CP	Belize	LL	t2																															11			
BSH	ATS	CP	Korea Rep.	LL	t1																															12	0.2%	99%	
BSH	ATS	CP	Korea Rep.	LL	t2																															12			
BSH	ATS	CP	S. Tomé e Príncipe	PS	t1																															13	0.2%	99%	
BSH	ATS	CP	S. Tomé e Príncipe	PS	t2																															13			

Table 23. POR-N region

						T1 Total	1088	1374	2054	2658	1952	2770	2173	1640	1877	1516	1471	1555	1081	892	690	842	605	519	522	527	421	119	68	111	156	28	56	20	29	12			
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum	
POR	ATN	CP	Canada	LL	t1	73	78	329	813	919	1575	1351	1045	1322	1055	956	899	491	223	130	220	191	184	83	115	50	65	22	29	16	8	3	2	2	1	1	42.5%	43%	
POR	ATN	CP	Canada	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	-1	a	a	a	a	-1	a	a	a	abc	ab	ab	ab	ab	ab	a	ab	ab	1		
POR	ATN	CP	EU.France	UN	t1	341	551	300	496	633	820	565	267	315	219	240	410	361	461	303	194	276	194	83	83	153									0	2	25.2%	68%	
POR	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	2			
POR	ATN	NCO	Faroe Islands	LL	t1	477	550	1189	1149	165	48	44	8	9	7	10	13	8	10	14	5	19	21											ab	0	3	13.0%	81%	
POR	ATN	NCO	Faroe Islands	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3			
POR	ATN	CP	EU.Denmark	UN	t1	33	46	85	80	91	93	86	72	69	85	107	73	76	42	21	20	4	3	2	1											4	3.8%	84%	
POR	ATN	CP	EU.Denmark	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	0								4			
POR	ATN	CP	Japan	LL	t1	58	63	62	54	35	29	15	15	13	19	41	47	52	21	7	20	27	18	17	10	13	13	14	49	98	0	0	2			5	2.8%	87%	
POR	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	ab	ab	ab	a	a	a	a	a	0	5			
POR	ATN	CP	EU.France	LL	t1																															6	2.4%	90%	
POR	ATN	CP	EU.France	LL	t2																															6			
POR	ATN	CP	EU.España	LL	t1	42	26	47	15	21	52	19	41	25	25	18	13	24	54	27	11	14	34	8	41	77										7	2.2%	92%	
POR	ATN	CP	EU.España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7			
POR	ATN	CP	Norway	UN	t1	25	43	32	41	24	24	26	28	17	27	32	22																			8	1.5%	93%	
POR	ATN	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	8			
POR	ATN	CP	U.S.A.	LL	t1	1	1	4	4	50	108	35	78	56	9	0	1	0	1	0	1	0	0	0	0	0	0	3	2	0						9	1.4%	95%	
POR	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	-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	9		
POR	ATN	CP	EU.Portugal	LL	t1	2	2	1	0	1	1	1	1	1	1	0	7	4	10	101	50	14	6	0	3	17	7	0	0							10	0.8%	96%	
POR	ATN	CP	EU.Portugal	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	10			
POR	ATN	NCC	Chinese Taipei	LL	t1	3	0			4	10	12	27	18	13	27	19	18	22	12	8	7	5	3												11	0.7%	96%	
POR	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	11			
POR	ATN	CP	Canada	GN	t1																															12	0.5%	97%	
POR	ATN	CP	Canada	GN	t2																															12			

Table 24. POR-S region

			T1 Total	301	301	239	360	207	279	170	311	178	262	178	214	121	182	196	109	133	122	149	85	62	16	21	37	29	38	4	1	0	4							
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum		
POR	ATS	NCC	Chinese Taipei	LL	t1	108	142	73	192	85	146	57	168	65	170	73	84	29	93	95	39	43	47	99		2	0	0	1	0	0	0	0	0	1	42.0%	42%			
POR	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		a	-1	a	a	-1	-1	-1	-1	-1	-1	1	25.7%	68%		
POR	ATS	CP	Brazil	LL	t1	102	95	81	128	60	32	49	33	36	38	58	60	67	74	49	37	52	32	23		2										2				
POR	ATS	CP	Brazil	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	-1	-1	-1	-1	a		-1									2				
POR	ATS	CP	Japan	LL	t1	15	37	48	12	13	14	6	9	14	1	1	7	4	3	2	11	3	3	9	41	34	8	7	25	15	13	4	1	0		3	8.3%	76%		
POR	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	a	a	a	a	a	a	a	a	a		3				
POR	ATS	CP	EU.España	LL	t1		1	13	12	32	35	43	28	27	2	14	7	14	2	9	4	0	3	5	4	13											4	6.2%	82%	
POR	ATS	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	ATS	NCO	NEI (Flag related)	LL	t1	50	13	8	14	10	22	8	46	23	37	11	15	3	1																		5	6.0%	88%	
POR	ATS	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											5			
POR	ATS	CP	Uruguay	LL	t1							3			5	14	3	4		8	34	8	28	34	3	40	14	6	12	12							6	5.3%	93%	
POR	ATS	CP	Uruguay	LL	t2							-1			-1	-1	-1	-1		-1	-1	-1	-1	a	a	b	a	-1	ab	ab	b							6		
POR	ATS	CP	Panama	LL	t1		7	8	14	2	6	24	4	21	3		0	1																				7	2.1%	96%
POR	ATS	CP	Panama	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1		-1	-1																				7		
POR	ATS	CP	China PR	LL	t1					0	1	0				13	36	4		5	4	2	2	6														8	1.7%	97%
POR	ATS	CP	China PR	LL	t2					-1	-1	-1				-1	-1	-1		-1	-1	-1	-1	-1														8		
POR	ATS	CP	Korea Rep.	LL	t1		19	3	3	1	1	2	1	6	1																							9	1.4%	99%
POR	ATS	CP	Korea Rep.	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																						9		
POR	ATS	CP	Ghana	PS	t1																																	10	0.6%	99%
POR	ATS	CP	Ghana	PS	t2																																	10		
POR	ATS	CP	EU.Portugal	LL	t1										1			1	1	1	4	2	1	2														11	0.3%	99%
POR	ATS	CP	EU.Portugal	LL	t2										-1			-1	-1	a	a	a	a	-1	-1													11		

Table 25. SMA-N region

Table 25. SMA-R region				T1 Total	2170	2389	2296	3233	4114	3659	5306	5306	3534	3845	2858	2587	2677	3426	3987	4000	3695	3574	4158	3800	4541	4767	3718	4431	3595	2852	2964	3347	3116	2388					
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum	
SMA	ATN	CP	EU.España	LL	t1	1079	1537	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	1	53.1%	53%	
SMA	ATN	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	b	b	b	b	b	b	b	b	b	b	2	17.5%	71%	
SMA	ATN	CP	EU.Portugal	LL	t1	193	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	2				
SMA	ATN	CP	EU.Portugal	LL	t2	-1	-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	3	7.7%	78%	
SMA	ATN	CP	U.S.A.	RR	t1	670	268	210	250	667	317	1422	232	164	148	69	290	214	248	0	336	282	257	158	156	163	168	178	229	219	201	163	158	189	125	3			
SMA	ATN	CP	U.S.A.	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	b	b	b	3			
SMA	ATN	CP	Maroc	LL	t1																															4	6.4%	85%	
SMA	ATN	CP	Maroc	LL	t2																															4			
SMA	ATN	CP	Japan	LL	t1	207	221	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	44	5	6.2%	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	ab	ab	ab	ab	a	a	a	a	a	a	5			
SMA	ATN	CP	U.S.A.	LL	t1	188	146	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	6	4.4%	95%	
SMA	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	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	7	1.4%	97%	
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	7			
SMA	ATN	NCC	Chinese Taipei	LL	t1	2	9	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	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	8			
SMA	ATN	CP	Maroc	PS	t1																															9	0.6%	98%	
SMA	ATN	CP	Maroc	PS	t2																																9		
SMA	ATN	CP	Belize	LL	t1																																10	0.3%	98%
SMA	ATN	CP	Belize	LL	t2																																10		

Table 26. SMA-S region

				T1 Total	1546	1255	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	3159						
Species	Stock	Status	FlagName	GearGrp	DSet	1989	1990	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	Rank	%	%cum		
SMA	ATS	CP	EU.España	LL	t1	809	552	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	1	38.6%	39%		
SMA	ATS	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	b	-1	b	b	b	b	b	b	b	b	1				
SMA	ATS	CP	Namibia	LL	t1											1			a	459	375	509	1415	1243	1002	295	23	306	328	554	9	950	661	799	194	980	2	14.1%	53%	
SMA	ATS	CP	Namibia	LL	t2											-1			-1	ab	ab	ab	ab	ab	ab	ab	ab	a	554	a	a	a	a	ab	b	2				
SMA	ATS	CP	Japan	LL	t1	618	538	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	3	13.2%	66%	
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	ab	ab	ab	a	a	a	a	a	a	a	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	ab	ab	ab	ab	ab	ab	ab	4	8.8%	75%	
SMA	ATS	CP	EU.Portugal	LL	t2							-1	-1	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4				
SMA	ATS	CP	Brazil	LL	t1	71	103	79	158	122	95	119	83	190	233	27	219	a	409	226	a	283	177	426	183	152	121	92	128	179	193	276	256	172	124	275	396	5	7.8%	83%
SMA	ATS	CP	Brazil	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	-1	ab	a	a	a	a	a	ab	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	6	6.0%	89%	
SMA	ATS	CP	South Africa	LL	t2				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	6			
SMA	ATS	NCC	Chinese Taipei	LL	t1	29	36	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	7	5.1%	94%		
SMA	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	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		77	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	-1	a	a	a	a	a	a	a	a	a	a	a	a	8			
SMA	ATS	CP	Uruguay	LL	t1	19	26	13	20	28	12	17	26	20	23	21	35	40	38	188	249	146	68	36	41	106	23	76	36	1						9	1.8%	98%		
SMA	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a	-1	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	10	0.7%	98%		
SMA	ATS	CP	Côte d'Ivoire	GN	t2				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	b	b	-1	-1	-1	a		a	a	ab	a	a	b	b	-1	10			