

SECRETARIAT REPORT ON
STATISTICS AND COORDINATION OF RESEARCH IN 2016

Introduction

The activities and information included in this report refer to the period between 1 December 2015 and 15 October 2016 (the reporting period)¹. All the basic fisheries, biological statistics and data-compliance related information have been presented by the Secretariat to the SCRS Working Groups during SCRS inter-sessional and species meetings. The Secretariat continues to note the improvements in terms of data submission using the ICCAT electronic forms. 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 (apart from the usual preparation of the majority of the datasets required by each assessment) a lot of additional work to stock assessment activities, whether participating actively in the assessment or coordinating and managing external support to the SCRS work. Also, the statistical work requested to the Secretariat in the last five years, together with a common lack of adherence to deadlines established for data submission, particularly special requests for stock assessment purposes, have constituted an enormous amount of work for the Secretariat, which is not sustainable.

1. Statistical and biological information reporting status

The deadline adopted for presenting reporting obligations is indicated in ICCAT Circular #1104/16, dated 19 February 2016, and the reception date of the email is always considered the official reporting date of the first submission of a given dataset by a Contracting, Cooperating Party, Entity or Fishing Entity (CPC). The deadline for yellowfin tuna statistics was 26 February 2016 (finalised data for 2014 and where possible 2015), for Atlantic Albacore tuna 14 April 2016 (finalised data for 2014), for Sailfish on the 16 of May 2016 and for Mediterranean Swordfish on the 24 June 2016. For all other species the deadline was 31 July 2016 (plus 24 hours tolerance due to time zone differences). The reporting obligations of the ICCAT CPCs include the ICCAT Contracting Parties plus ICCAT Cooperating non-Contracting Parties, Entities and Fishing Entities.

The Secretariat reiterates to the CPCs the Commission's requirement of using the **MOST RECENT** standard electronic forms for data submission and complete all the information requested.

Aiming to verify if the data received is properly qualified to be accepted by ICCAT, the SCRS approved two screening filters during the SCRS meeting of 2013 (Addendum 2 to Appendix 8 of 2013 SCRS report and updated in 2015), which define the "Criteria for acceptance of statistical data received under official formats". The Secretariat applied (in line with the 2014 and 2015 SCRS guidelines) the filtering criteria for the third time, to the 2016 data. Filter 1 was effectively applied and the results are shown in each of the report cards (**Tables 1, 2, 3, and 4**), with "orange" cells indicating the rejection effect of applying Filter 1 to the various datasets. Filter 2 was simply tested and the results presented to the SCRS. Both filters were used on every Task I and Task II dataset received (following the methodology of Palma and Gallego, 2015²). The filtering criteria was not applied to the tagging forms received because the Secretariat, currently doesn't have the database and the forms ready and the necessary conditions to implement it on tagging datasets.

1.1 Task I

The two major datasets of Task I statistics (fleet characteristics and nominal catches), provide yearly based global indicators of the fishing capacity (form ST01-T1FC, fully revised and approved in 2015) and species based biomass removals (form ST02-T1NC, fully revised to include the "zero" catches sub-form,

¹ Only data received by the Secretariat in electronic form are considered and information submitted after this period is not referred to in this report.

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

approved in 2015) in the ICCAT Convention area. Contracting Parties must report all Task I information using these two forms. The Secretariat reminds the ICCAT CPCs that, since 2013, the Task I catch statistics (form ST02-T1NC) must be reported using the approved sampling area by species as indicated in the web (www.iccat.int/Data/ICCAT_maps.pdf). The old Task I area codes (without geographical boundary definitions) should be “optional” and only reported as complementary information.

1.1.1 Fleet characteristics

The information requested in Task I fleet characteristics (T1FC), was again object of a revision in 2015. It has now two data forms: a) ST01A, requesting information by individual vessel; b) ST01B, requesting (optionally, and only for vessels with length overall less than 20) aggregated information by groups of vessels). It aims to collect better information on the effective (active vessels only) fishing capacity by fishery, fleet structure, and yearly based (gear independent) global effort (effective fishing days). The number of CPCs that submitted T1FC information (form ST01 T1FC) for 2015, during the reporting period, is presented in **Table 1**.

For the second year (2014 and 2015) this Task I dataset was requested on an individual vessel basis. The outcome of this exercise continues to be quite promising. In the near future, the SCRS will count with better information to properly evaluate the effective fishing activity taking place in the ICCAT Convention area. The reporting ratio (number of Flags reporting this dataset) reached nearly 70% with about 18,000 vessels (length overall ranging from 3 meters to 220 meters) reported to have been fishing actively in at least one of the ICCAT major fisheries. A simple comparison with the ICCAT vessel record inventory (vessels registered in the positive list or any other ICCAT list) shows that, 15% of those vessels are not registered (majority small scale vessels) in the ICCAT record. Six CPCs have reported the smaller scale vessels in the sub-form ST01B.

The four different reporting deadlines (BFT-E, SWO-M, TROP fisheries, and, general) were, as recommended by the SCRS, merged by the Commission into a unique deadline (31 July each year).

1.1.2 Nominal catch

Task I nominal catch data (T1NC) which contains landings and discards by species, stock, gear, fleets and year, is a fundamental piece of information used in all the stock assessments. The availability of timely data is essential for the SCRS work. The information requested in Task I, has now separated (in two sub-forms) the positive catches (sub-form ST02A) more detailed, and, the “zero” catch component (sub-form ST02B) more aggregated (only one zero required per major species/stock, year, CPC, and gear). **Table 2** summarizes, for the 13 major ICCAT species (ten tuna and tuna like species and three shark species) and the group of small tuna species (any of 14 species, including dolphin fish), the 2015 T1NC information provided during the reporting period. **Table 8c**, summarises the zero catches reported (by major species/stock) by each flag CPC for 2015.

1.2 Task II

Task II statistics (catch-effort and size information) are more detailed in terms of time-area information and often they reflect partial coverage (a subset) compared to Task I statistics. Task II information is the main source of data used by the Secretariat to estimate important datasets such as CATDIS, EFFDIS, CAS, and CAA by species. CPCs should report Task II data using, the ICCAT standard electronic forms (ST03-T2CE for catch and effort and ST04-T2SZ for size samples), or any of the special agreed formats convened by the Secretariat and a particular CPC.

1.2.1 Catch and effort

Table 3 presents the detailed report card for Task II catch and effort (T2CE) statistics received during the reporting period. In terms of time-area resolution, the majority of the T2CE information (more than 95% of the datasets) is reported by month and in 1x1 or 5x5 latitude-longitude degree squares, as recommended by the SCRS. This tendency to report more detailed T2CE (with some exceptions) has been continuous in the most recent year. The Secretariat persistently continues the T2CE data recovery task of replacing (requesting data whenever necessary) “poor” datasets by the ones the SCRS recommends (by month, and, 5x5 for longline gears/1x1 for surface gears).

An important part of the Secretariat estimations (CATDIS, EFFDIS, CAS and CAA) depends on the quality of T2CE. However, some deficiencies/problems persist in some datasets reported, being the most problematic ones: a) missing effort information; b) non-standard effort types for certain gears (e.g.: for longline “hooks” is the standard); c) incomplete species catch composition; d) double counting of fishing effort (same effort reported several times in different forms, often one form per species). Once again, the Secretariat recommends that, SCRS scientists collaborate with the Statistical Correspondents of each CPC to address these problems.

The number of species reported in T2CE has increased lately, in particular the pelagic shark species. The Secretariat reiterates to the CPCs that T2CE statistics require submitting all the species catch composition (target and by-catch) in a unique form, with the proper effort types of the gear reported, and stratified by month and with a geographical grid of preferably 1x1 degree squares (or at least following the SCRS standard: 5°x5° degree squares for longline fisheries, and 1x1 degree squares for other gears). The Secretariat also proposes that form ST03-T2CE be changed to only allow reporting data by month and in 1x1 or 5x5 degree squares.

1.2.2 Size information

Table 4 presents the detailed report card for Task II size frequency data (T2SZ) received during the reporting period. This report card also includes CPC based catch-at-size dataset estimations reported (using form ST05-CAS) for the five major species. The Secretariat noted some improvements in timely data reporting and also an increase in the number of T2SZ datasets provided, and their level of detail (better time-area resolution, smaller size classes [1/2/5 cm], etc.).

Following the Commissions Res. [11-14] on the standardized presentation of scientific information, the Secretariat is providing a “catalogue summary” for each of the major species by stock/management unit (**Appendix 1**). These catalogues show the information for a given period (1990 to 2015), grouped by flag/gear group combinations in terms of Task I nominal catches, Task II catch and effort, size sampling, and catch-at-size data available by year. The objectives are summarizing data completeness and availability for each stock and identifying major gaps of information. In **Appendix 1** the catalogues are provided for the nine major tuna and billfish species and three main sharks stocks (excluding the small tuna species catalogues, which are presented during the WG-SMT meetings). Each table data has the flag/gear group combinations ranked by importance (the average catch over this time period) and arranged in descending order. For presentation purposes, the list is restricted to the top flag/gear group combinations that account for at least 97.5% of the total cumulative Task I nominal catches over the time period shown.

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 153 releases 85 recoveries made in late 2015 and during 2016.

1.3.2 Conventional tags

During 2014-2015, several Contracting Parties have reported tagging 827 fish with conventional ICCAT tags, and 339 recoveries (**Table 5a**).

As in previous years, the Secretariat provided conventional tags for tagging experiments to the ICCAT scientific community (individual scientists or research institutions of the CPCs). From September 2015 to October 2016, the Secretariat distributed 3,400 conventional tags, primarily under the tagging projects of the ICCAT GBYP and to various scientific institutions (**Table 5b**).

The update of the forms TG02 and TG03 (making a single form trilingual, updating the format and reviewing the fields to be completed, including mandatory information), conventional and electronic tagging respectively, will be subject to the orientation provided by the *Ad hoc* Working Group on coordination of tagging information to the Secretariat as regards the recommendations to initiate the procedure (a similar process to that carried out for form TG01, from developing drafts of these forms to final approval).

1.3.3 Tagging lottery

National laboratories grant rewards or prizes to people who recover tags to encourage the return of tags. Aimed at providing assistance to these programmes, ICCAT organizes an annual lottery with a US\$500 reward.

Since 2012, an additional lottery is carried out supported by the ICCAT Atlantic Wide Research Programme on Bluefin Tuna (GBYP). This lottery included three rewards, two in the amount of €500 and one in the amount of €1000 for the recovery of bluefin tuna (*Thunnus thynnus*/BFT) exclusively.

In the previous ICCAT lottery, held on 28 September 2015, three tags were rewarded for each of the following categories: tropical tunas/small tunas, billfish, and sharks.

The winning tags were the following:

- *Tropical tunas/small tunas*: The winning tag (MT000569) was recovered by Spain on a bigeye (*Thunnus obesus*/BET) 194 days after its attachment. Tagging was carried out in the United States fishing campaigns.
- *Billfish*: The winning tag (BF477299) was recovered by Venezuela on an Atlantic blue marlin (*Makaira nigricans*/BUM).
- *Sharks*: The winning tag (352305) was recovered by Spain on a blue shark (*Prionace glauca*/BSH) 642 days after its attachment.

For the temperate tunas category, there were only bluefin tuna (*Thunnus thynnus*/BFT) recoveries this year. Given that this species was included exclusively in the associated lottery of the ICCAT Atlantic Wide Research Programme for Bluefin tuna (GBYP), it has been unawarded.

In the 2015 GBYP lottery three tags were recovered on bluefin tunas (*Thunnus thynnus*/BFT):

- €1,000: The winning tag carried the number BYP010761 and was recovered by an Algerian national 636 days after it was attached.
- €500: The winning tag carried the number BYP016072 and was recovered by an Algerian national 129 days after it had been attached.
- €500: The winning tag carried the number BYP014646 and was recovered by a Spanish national 596 days after it was attached. Tagging was carried out in the Spanish fishing campaigns.

1.4 By-catch

For the second year, the majority of by-catch data was requested to be submitted using the recently adopted ST09-NatObPrg forms. As these forms are extremely complicated and require substantial work on the part of CPCs to complete, 2016 has been viewed as a continuation of the trial period for the use of these forms which started in 2015. In addition the period has been used to correct any errors in the reporting forms themselves and in 2016 several new fields were added to the forms based on comments by the ICCAT SCRS working groups. The revision of this form will continue in 2017. For the reporting period, the Secretariat has received submissions using these new forms from 14 CPCs (an increase of 2 from 2015), although several forms were submitted with very little information. Information for 82 ICCAT by-catch and shark species were reported using the new forms. Both the ST09-NatObPrg and Task I catch data is provided in terms of weight (ST09-NatObPrg forms allow the submission of data by number as well. **Table 6a** provides observer data received during the current reporting period separated by discard fate. The UK overseas territories and China sent observer information regarding by-catch species but in a non-standard format in addition to their ST09 forms. **Table 6b** contains T1NC data for by-catch species.

1.4.1 Sharks

Information was collected regarding shark data improvement towards the implementation of Recommendations [09-07], [10-07], [10-08] and [11-08] in 2012, 2013, 2014 and 2015. Two submissions were received in 2016. Task I and II shark data has been submitted in 2016.

1.4.2 Sea Turtles

An expert contracted externally conducted work with the Chairs of the SCRS and the Sub-committee on Ecosystems to assist National Scientists in collecting, reviewing and identifying appropriate methods for the assessment of the impact of fisheries on by-catch of sea turtles in 2012. Interaction information was again received in 2013, in preparation for the Ecological Risk Assessment and again in 2014 (including confidential interaction information). The Sub-committee on Ecosystems at their 2014 meeting decided to discontinue working on a sea turtle ERA in the short term and so no specific sea turtle data requests were made in 2016. As such all information submitted in 2016 is provided in **Table 7a**. The Secretariat received the majority of this information from submitted ST09-NatObPrg forms, although some CPCs submitted information separately using non-standard formats. It is recommended that this information is only submitted using the dedicated observer data collection forms as requested by the Secretariat.

1.4.3 Seabirds

As it was planned that in 2016 the effect of the new mitigation measures on seabird by-catch [Rec. 11-09] would be evaluated, additional information regarding seabird interactions was requested. This included historical information for the period 2010 – 2015 for CPCs fishing south of 25°S. The Secretariat received information on seabird interaction and release fate in the ST09-NatObPrg forms only, as was requested, although the response was generally poor and no historical data was provided apart from Chinese Taipei (Chinese Taipei used the “Sampling” form rather than “Catch details” form to provide information regarding seabird interactions making the data difficult to compare with other CPC submissions). The information submitted is provided in **Table 7b**.

2. Data recovery and improvement

2.1 Evaluation of Ghanaian fisheries statistics (period: 1996-2014)

During the yellowfin data preparatory meeting (Pasaia, 7-11 March) a revision of T1NC and T2CE (period 2006 to 2014) for the Ghanaian tropical fisheries was requested by the Working Group. The Secretariat in collaboration with Ghanaian scientist provided estimates of yellowfin tuna catches, fishing effort, size composition and catch-at-size for the Ghanaian industrial fleets Task I between 2006 and 2014 (SCRS/2016/107).

2.2 Other revisions and updates

Several CPCs have submitted historical revisions to T1NC for tuna and tuna-like species, sharks and other by-catch species. These revisions are summarised in **Table 8a** (all were provisionally integrated into ICCAT-DB). The majority of the revisions were required (and already adopted) by the Yellowfin Stock Assessment Group.

In relation to T2CE, Japan has revised entirely their longline series. All the datasets (**Table 9**) were provisionally integrated into the ICCAT databases with the pending approval of the SCRS. The ICCAT GBYP catch and effort datasets already included in ICCAT-DB (in preliminary containers) require additional treatment before going to the central T2CE database. The Secretariat, which developed in 2014 a specific database for the ICCAT GBYP historical data recoveries, continues to work on the required code to persist these T2CE series into the ICCAT-DB system in a proper way.

The Secretariat has received additional historical revisions of T2SZ datasets from European Union tropical fisheries (1990 to 2014: EU-France, EU-Spain, Curaçao, Guatemala, Panama, etc.). The above datasets (detailed in **Table 10**) were provisionally integrated into the ICCAT databases and are pending the approval (except yellowfin and small tunas) of the SCRS.

2.3 By-catch data

In 2016, information regarding Rec. [11-10], par. 3, on the provision of existing identification guides for sharks, seabirds and turtles and marine mammals caught in the Convention Area was provided by China and Algeria. With regard to Rec. 11-08, par. 4, plans for improving data collection for sharks on a species specific level Turkey and Belize provided information during the reporting period. Chinese Taipei provided historic observer information in the ST09-NatObPrg forms for 2013 and 2014. Information on alternative monitoring systems (S11) was provided by Belize, and Turkey.

3. ICCAT databases

The ICCAT database information system (ICCAT-DB) is an integrated system that manages all the structured information received by the Secretariat. It uses MS-SQL 2008R2 Enterprise Server as backend, and has various frontend components (applications developed mostly with Java technologies, SQL scripts, and, some residual VBA applications). These frontend components are used for validation, transformation, processing, statistical analysis, data mining, standard output requirements, and pre-processing for data dissemination (web, ICCAT publications, meetings, etc.).

In addition to the statistical and scientific information managed, the ICCAT-DB system also manages a large portion of the information associated with the Commission's compliance requirements. Since 2009, the workload of compliance-related information (mostly in response to the increase in bluefin tuna related regulations) steadily increased the database management related tasks.

The JAVA project (started in February 2015, with the migration of 12 application and 2 new databases) has continued during 2016, as recommended by the SCRS, aiming to improve the ICCAT-DB system in general (improving specific parts of the applications, web-form prototyping, unattended data integration and validation software, etc.). All the documentation associated (database manuals, java code manuals, user guides, etc.) are now properly integrated in the "ICCAT-DB documentation Framework" (ongoing, and now as a continuous update task). For the following year (2016/2017), the Secretariat has planned several improvements to various databases (mostly associated with statistics and tagging), and also, various developments/deployments in the ICCAT cloud system (RStudio, Shiny, statistical data publishing, web-forms prototyping, etc.). The Secretariat is also working in the replacement of the standalone MS-ACCESS databases (various limitations) to publish the T2CE and T2SZ/CS datasets on the ICCAT website by SQLite 3.14+ (<https://www.sqlite.org>) databases. The functionality currently available in MS-ACCES should also be replaced by developing equivalent tools in R (libraries) and JAVA (applications).

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, and ST05-CAS) were updated to version "2016a" to incorporate the required changes of the SCRS (codes, structures, filtering criteria, etc.). The respective databases were updated accordingly.

3.1.2 Catch distribution (CATDIS)

The Secretariat has continued to improve the detailed level in CATDIS. A full revision of CATDIS was made available in July 2016 for the nine major species, aimed to include various historical T2CE catch series recovered during 2015 and 2016 and also specific revisions that were made to Task I since the prior version. The resulting maps were published in the ICCAT Statistical Bulletin, Vol. 43(I) (www.iccat.int/sbull/SB43-1-2016/index.html).

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. As required, the Secretariat updated the overall CAS estimations for the stocks evaluated by the SCRS in 2016, namely the CAS and catch-at-age (CAA) matrices of yellowfin, North albacore and South albacore, and, Mediterranean swordfish.

3.1.4 Effort distribution (EFFDIS)

This database was developed in 2008. It experienced some improvements during 2009 and was updated during 2011. Currently, the database includes total nominal effort for longline (1950-2009), by flag and month. In 2011, the SCRS recommended a revision of the algorithms and estimation protocols for EFFDIS in coordination with the Working Group on Stock Assessment Methods. In both 2012 and 2013 updated proposals were presented to the WGSAM for improving the estimation of this data. Work on a short term EFFDIS contract was conducted in 2015. The objectives of the contract was to develop a robust statistical modelling approach to estimate overall Atlantic fishing effort, update the current EFFDIS estimations for longline gear (1950 to 2014) using the new approach, and develop an estimation procedure for other gears. Previously, it was requested that additional estimations should be conducted for purse seine and baitboat fleets. It has been pointed out, however, that EFFDIS is only used to assess the fishing impacts of ICCAT fleets on by-catch species, and as by-catch in baitboat fisheries is extremely limited, there is little point in conducting this exercise for that gear. It was thus agreed that the contractor would only focus on the important longline and purse seine estimations under the current contract, with consideration given in future EFFDIS estimations (not the current contract) to gillnet fisheries which are believed to have far higher levels of by-catch. The Sub-Committee on Ecosystems discussed the updated estimates provided for longline and purse seine fisheries during its 2016 meeting and several new suggestions were made for improvements. Most importantly, historical revisions in the ICCAT Task II database will be included in future EFFDIS estimations and estimates of error and uncertainty around the final Effdis estimates will be calculated.

3.1.5 FAD forms

In 2014, a new form (ST08-FadsDep) was created and distributed in response to Rec. 13-01 par. 2. This form was designed to capture information on the number of FADs actually deployed on a quarterly basis, by FAD type, indicating the presence or absence of a beacon associated to the FAD. This form was modified in 2016 to include additional information pursuant to Rec. [15-01] including the number of beacons / buoys and average number of FADs followed and lost. In 2016, the Secretariat has received submissions from six CPCs, namely Belize, Curaçao and EU, Panama, St. Lucia and the UK OT. **Appendix 2** shows the number of FADs deployed per quarter by each CPC (including presence or absence of beacons) as well as the number of FADs that have been lost.

3.1.6 Supply vessels

Another form (ST07-TropSupVes) addressing Rec. 13-01, par. 2 was created to obtain information regarding support vessels and in particular for each support vessel, the number of days spent at sea, per 1° grid area, month and flag State and whether it was associated to purse seine/baitboat. In 2016, the Secretariat has received information from three CPCs, namely EU, St Lucia and the UK OT.

3.1.7 Port Sampling Programme

In 2015, a tenth statistical data submission form (ST10-PortSamp) was created to compile data and information collected from the sampling programme covered under Rec. [14-01, 15-01]. For the reporting period, submissions were received from four CPCs; namely Canada, El Salvador, EU-France, and Saint Lucia that reported no sampling programs for tropical tunas due to limited resources.

3.2 By-catch/observers forms

The use of specific electronic Observer Programme Data submission forms were approved by the Commission in 2014 and have been available since 2015. The deadline for data submission using these forms was 31 July and as such the Secretariat has, as mentioned above, received submissions using these

new forms from 14 CPCs for the current reporting period. It is acknowledged that these forms will require revision based on feedback by the Sub-committee on Statistics as comments have again been provided by the Sub-committee on Ecosystems in 2016. It is again clarified that all observer data, including by-catch information, should be submitted using these forms. At least one CPC has also provided historic observer data using these forms. In 2015, a database was initiated to store the data submitted by the ST09-NatObPrg form although, as this form is expected to change, based on the comments and feedback provided by the SCRS, this database is not final. In addition, dedicated applications are being developed to facilitate the importation of submitted data using these forms into the database. It is envisioned that this will be finalised during 2016 and early 2017 although these will need to be flexible to adjust for the envisioned changes to the forms in the future.

3.3 Other Stereoscopic cameras size sampling

Since August 2014, CPCs start reporting size measures of eastern bluefin tuna at the caging transfers using stereo video camera recording systems. Size and estimated weight data have been received from CPCs with active bluefin tuna farms; EU-Croatia, EU-Malta, EU-Spain, Morocco, Tunisia and Turkey for 2014, 2015 and 2016. In 2015, an electronic form (ST06-T2FM) for data input was made available for CPCs to submit the stereoscopic camera size sampling data. Unfortunately, not all CPCs have adopted the e-form, and/or submitted all the information required. Furthermore, not all CPCs are using the conversion E-BFT size-weight factors adopted by the SCRS in 2015. Because bluefin tuna shows seasonal changes in condition factor associated with migration and spawning activities in the Mediterranean Sea, the bluefin Working Group has recommended using the monthly size-weight conversion factors for caging operations as dates of catch and first caging are precisely known.

3.4 Compliance

In recent years, a number of compliance-related measures adopted by the Commission have imposed 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 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 summarizes the available data that has been summarized for the SCRS in 2016.

3.4.1 Vessel registers

The Secretariat maintains up-to-date the ICCAT database on vessel record (Recommendations [11-03], [11-12], [12-03] and [12-06]), which was slightly improved during 2016. The ICCAT vessel record database is, since 2015, daily synchronised with the t-RFMOs Consolidated List of Authorized Vessels (CLAV) and the electronic Bluefin Catch Documentation Program (e-BCD).

The Secretariat also carries out a continuous revision of the ICCAT vessel record database consistency. Vessel duplication was reduced during the last 3 years, to less than 1% (around ~250 possible duplicates) of the total of nearly 31,600 vessels registered. This duplication ratio can only be reduced with the help of the ICCAT CPCs. The Secretariat is also carrying out an ongoing (long term) project aiming to rebuild the ICCAT vessel record history (backwards in time). The history rebuilding project only covers the years prior to 2013 (from 2013 onwards the history is already tracked/stored by the new vessels database).

3.4.2 Bluefin tuna fisheries

Recommendations [14-04] and [14-05] establish several reporting requirements for CPCs fishing bluefin tuna:

- List of vessels authorized to catch eastern bluefin (Para. 52 of Rec. [14-04])
- List of other bluefin tuna vessels authorized to operate in the eastern bluefin tuna fishery (Para. 52 of Rec. [14-04])
- Detailed information on bluefin tuna catches in the eastern Atlantic and Mediterranean in the preceding fishing year (Para. 56 of Rec. [14-04] and Para 1 of Rec. [15-08]).
- Weekly eastern bluefin tuna catch reports by vessel (Para. 66 of Rec. [14-04])
- Monthly bluefin tuna catch reports by flag (Para. 67 of Rec. [14-04] and Para. 24 of Rec. [14-05])

- VMS messages (Para. 5 of Rec. [07-08] and Para. 87 of Rec. [14-04])
- List of bluefin tuna traps (Para. 54 and 55 of Rec. [14-04])
- List of ports in which vessels are authorized to land and/or tranship eastern bluefin tuna (Para. 59, 63 of Rec. [14-04]).
- The use of stereoscopic cameras systems in the context of caging operations (Para 83 and Annex 9, Rec. [14-04])
- Data and information collected under each CPCs observer programme (Rec. 14-04, Para 88)

3.4.3 VMS messages

The VMS information received under [Rec. 14-04] 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 on fishing effort distribution and intensity. **Figure 1** shows the number of messages received in each 1°x1° rectangle from 5 September 2015 to 15 October 2016 (reporting period). The plot represents only 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 11** summarizes the BCD catches (weight and number) currently available (15 October 2016).

In 2010, the Commission, through Recommendation [10-11], approved the implementation and use of an electronic system for submitting the BCD information (e-BCD). In 2012, the Secretariat, in coordination with Commission's technical Working Group, signed the contract for the development of the e-BCD system with the consortium TRAGSA L.S/ The Server Labs. During 2015 the Secretariat and the Commission's technical Working Group have extended the contract for development, implementation and support of the e-BCD project until 2016. In 2015, both the paper BCD forms and electronic versions are being accepted until the full transition is accomplished. In 2016, with the implementation of Rec. 15-10, the eBCD system become mandatory on 1 May 2016. The substantive provisions of Rec. 11-20 for the paper BCD are applied *mutandis mutandis* to the electronic BCDs.

3.4.5 Bluefin catch reports

Under Recommendation [14-04], bluefin catch reports are sent to the Secretariat. **Table 12a** and **12b** summarizes the information available from the weekly and monthly catch reports (as of 15 October 2016), 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 13**. Data shown represents data submitted up to 15 October 2016. 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 14a** summarises the number of biannual reports (SD: statistical documents; RC: re-export certificates) received from ICCAT CPCs during the reporting period. **Table 14b** and **Table 14c** compares (for swordfish and bigeye, respectively) current Task I nominal catch against trade statistics (SD's and RC's) as of 15 October 2016.

3.4.8 Transhipments

Recommendation [06-11], replaced by Rec. 12-06, established a programme to monitor at-sea transhipments by large-scale longliners. The amounts transhipped are reported in **Table 15**. 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 Program (ROP-BFT)

The data sets from this programme have been made available by the implementing consortium to the bluefin Working Group.

In 2014 the Secretariat presented a preliminary review of the size at harvest of bluefin from farming operations (Ortiz *et al.* 2015³). This information was already integrated into the ICCAT-DB system and was already used in the 2014 bluefin stock assessment (fully revised version of CAS/CAA estimations).

3.4.10 ICCAT Regional Observer Programme for Tropical Tunas

The *Recommendation by ICCAT on a Multi-Annual Conservation and Management Programme for Bigeye and Yellowfin Tunas* [Rec. 11-01] established an ICCAT Regional Observer Programme for tropical tunas during the area/time closure on FAD fishing. In 2012 the Secretariat prepared a Call for Tenders that defined the tasks of the Observer Programme. In 2013 the Secretariat awarded the contract to implement the programme in 2014. However, the Commission decided that national observers be used for the 2014 closed season and that the contract with the agency remained valid to implement the Regional Observers in 2015. This however, was rescinded prior to the activities taking place although CPCs were requested to continue with their existing programmes and send observer reports to the Secretariat. To date, only reports from EU-Spain and Ghana have been received.

3.5 By-catch data

By-catch data is now submitted using the Observer data collection forms (ST09-NatObPrg). This has been covered in item 3.2 above. The ICCAT by-catch meta-database has been updated to the end of 2015 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 Working Groups for analysis.

3.5.1 FAD management plans

The *Recommendation by ICCAT on a Multi-Annual Conservation and Management Programme for Bigeye and Yellowfin Tunas* [Rec. 11-01] states that each year by 1 July, CPCs with purse seine and baitboat vessels fishing for bigeye and yellowfin tunas in association with objects that could affect fish aggregation, including FADs, shall submit Management Plans for the use of such aggregating devices by vessels flying their flag to the Executive Secretary. The elaboration of the plan in Annex 2 of the recommendation explicitly states:

The FAD Management Plan for a CPC purse seine fleet must include at least:

- a) Number of FAD to be deployed per purse seine and per FAD type;
- b) FAD design characteristics (a description);
- c) FAD markings and identifiers.

It is noted that a) above is largely covered by the new FAD data collection forms (ST08-FAD). Belize and EU submitted a FAD management plans for the reporting period.

³ Ortiz M., Justel-Rubio A. and Gallego J.L. 2015.

Review and analyses of farm harvested size frequency samples of eastern bluefin tuna (*Thunnus thynnus*). ICCAT Coll. Vol. Sci. Pap. 71(2): 1018-1035.

3.5.2 Observer data

Forms were created in 2011 (Form CP45-ObsProg) to obtain information regarding the type of data collected by CPC national observer programmes. In ICCAT Circulars 875/14 and 929/15, the Secretariat requested that only CPCs that have not previously completed this form or that have experienced changes in their observer programmes, not reflected in previous submissions, should submit this form in 2016. As such, CPCs that submitted these forms for the reporting period are Belize and Turkey.

In accordance with Recommendation 13-07 and 14-04, data collected under the national bluefin tuna observer programmes was also submitted to the Secretariat. For this reporting period it has been requested that this data be submitted using forms ST01-T1FC, ST02-T1NC, ST03-T2CE, ST06-T2FM and any additional necessary documents. As such, this information is reported elsewhere in this document although some data has been submitted using the ST09-NatObPrg forms. EU-Malta, EU-Portugal and Turkey provided information on bluefin tuna catches in their observer programmes using the requested ST09 forms, while EU-Croatia, Iceland and Norway submitted ST09 forms with trip information, but no observer catch details. EU-Spain and Japan submitted observer reports in non-standard word/pdf format. Due to the disparate reporting formats, and generally poor response to submission of information pursuant to Rec [14-04], the SCRS is not in a position to evaluate these observer programmes as requested by the Commission.

4. Work in Support of the SCRS Intersessional Meetings

Working Group on Stock Assessment Methods

The Secretariat was mainly responsible for developing and documenting the MSE framework used for the North Atlantic, a summary of which was presented at the Working Group. In addition a new R package was presented for modelling life history characteristics, this has been used by the Small Tuna Working Group to conduct the Ecological Risk Assessment, to develop priors for use in stock assessment, and to condition Operating Models (see SCRS/2016/018).

Yellowfin data preparatory meeting

The 2016 Data preparatory meeting for the yellowfin tuna assessment was held in Pasaia, Gipuzkoa, Spain from 7 to 11 March. The Secretariat presented to the Group the most up-to-date statistical (Task I and Task II) and tagging (conventional) information available at that time. The Secretariat presented a thorough review of ICCAT conventional tagging data for yellowfin (SCRS/2016/029), and used the tag-recapture data to estimate and compare preliminary growth parameters using methods that account for individual growth variability (SCRS/2016/043) for Atlantic yellowfin. The Working Group tasks focused on tropical fisheries in and around the Gulf of Guinea and delineated a work plan for estimating catch, catch and effort, size and catch at size for the industrial Ghanaian fleet for the period 2006 – 2014. The Secretariat in collaboration with Ghana scientist provided these estimates prior to the assessment meeting (SCRS/2016/107). Finally, the Secretariat provided prior to the assessment a complete revised, size frequency distributions, catch-at-size (CAS) and catch-at-age (CAA) matrices for the different assessment models following the recommendations of the Working Group during the data preparatory meeting and intersessional discussions.

2nd Meeting of the Ad hoc Working Group on FADs

The 2016 meeting of the Ad hoc Working Group on FADs was held in Bilbao from 14 to 16 March. During the meeting, a review of the information provided by CPCs pursuant to the FAD related provisions in the relevant ICCAT conservation and management measures was conducted. In addition, the use of FADs in tropical tuna fisheries in ICCAT and of the relative contribution of FADs to overall fishing mortality in ICCAT tropical tuna fisheries was assessed. The Secretariat provided a summary of the data available on FADs provided as prescribed initially in Rec [11-01], Rec [13-01] and Rec [14-01] with additional management measures and requirements stipulated in Rec [15-01] (SCRS/2016/053). The Group agreed that it was important to summarize the conclusions reached by the Group during the entire two years of its functioning. For that purpose, the SCRS Chair developed a draft synthesis of such results in a separate document that was presented to the FAD Working Group during the meeting.

Small Tunas Species Group intersessional meeting

The Secretariat presented the most up-to-date Task I and Task II information, prepared the small tuna SCRS catalogues for the first time, and in addition, the conventional tagging data was presented. The Secretariat worked intersessionally with the authors of SCRS/2016/016 to conduct the ERA which used the R package described in SCRS/2016/018. This package was also used to develop the indicators used in the Executive Summary, the analysis for which was done intersessionally after the meeting.

Sharks species group intersessional meeting

The Sharks species Group met in Madeira, Portugal, from 25 to 29 April. The discussion was mainly focused on data preparation for the envisioned 2017 shortfin mako stock assessment. Of importance, it was noted that a comprehensive estimation of historic catches for blue shark was made in 2015 for stock assessment purposes. This data was estimated to provide historic levels of catches for time periods for which official data were not available for fleets which are believed to have significant catches during that time. It was discussed that the same methodology may not be appropriate for shortfin mako, as unlike the blue shark, shortfin mako shark has always had commercial value and thus discards have been less. As such reported catch is likely to be more realistic than that for the blue shark. The Group therefore asked the Secretariat to coordinate with CPC scientists to develop historical estimations of catch using observer data as well as other potential techniques to provide these estimations for review during the 2017 data preparatory meeting. The ongoing Shark Research and Data Collection Programme (SRDCP) was presented and planning for 2017 and beyond was addressed. A discussion was also held on the revision of the list of sharks species considered of interest to the ICCAT Commission (oceanic, pelagic and highly migratory).

Atlantic Albacore stock assessment session

The Albacore stock assessment session, took place in Funchal (Madeira, Portugal) between 28 April and 6 May 2016. The Secretariat provided the most up-to-date Task I and Task II information related to both albacore Atlantic (Northern and Southern) stocks. The albacore conventional tagging data was also made available to the Group. During the meeting, the Secretariat also updated (special Group request) the overall catch-at-size (CAS) estimations of both stocks. A substantial amount of work was conducted intersessionally on developing and testing the code used to conduct the assessment. This included validation of the stock assessment and advice in the form of a management procedure and the conditioning the Operating Model that was used to evaluate it (SCRS/2016/023, 024, 025, 026, 027 and 28).

Sailfish stock assessment session

The 2016 Sailfish stock assessment session was held in Miami, USA from 30 May to 3 June. The weekend prior to this meeting, the Secretariat provided a short training exercise as well as assistance to several West African CPC scientists on how to standardize their CPUE information for inclusion in the stock assessment of the species. A revision of new information on the species was carried out, leading to important improvements in the biological parameters required for stock assessment modelling. It was noted that the data available for sailfish was somewhat incomplete, which made the assessment process very difficult. A range of different models were applied, but the results from the assessment were inconclusive and thus neither projections, nor Kobe strategy matrices, were developed due to the uncertainty in the stock status results.

Yellowfin stock assessment session

Prior to the assessment, the Secretariat provided a complete revised, size frequency distributions, catch-at-size (CAS) and catch-at-age (CAA) matrices for the different assessment models following the recommendations of the Working Group during the data preparatory meeting and intersessional discussions. After the assessment the Secretariat assisted with preparation of the Executive Summary by summarising the results of the projections and stock status in the Kobe Framework.

Mediterranean Swordfish stock assessment session

The Secretariat presented a summary of the available catch, fishing effort and size information available. The Secretariat was primarily responsible for creating the CAS, converting these data to the CAA, running the assessment, performing the projections and summarising the assessment results in the Kobe Framework.

Bluefin species group intersessional meeting

The Secretariat presented to the Group the most up-to-date Task I and Task II information available for bluefin tuna (BFT), as also some complementary catch data (BCD catches) to update/validate the most recent years (in particular 2015, foreseeing the bluefin projections work). The bluefin conventional tagging database and electronic tagging inventory were also made available to the Group. Aiming at the preparation of 2017 bluefin stock assessment, the Secretariat proposed a tidy and demanding work plan aiming at the full revision of the CAS (1950-2015) estimations previewed. The Group adopted the work plan proposed, and recommended a full commitment of the CPC scientists and the Secretariat.

Sub-Committee on Ecosystems Intersessional meeting

The Sub-Committee on Ecosystems Intersessional meeting was held in Madrid, 5–9 September. The meeting included discussions on how to advance the Ecosystems Approach to Fisheries Management within ICCAT and it was recommended that the Secretariat along with the Chair of the SCRS participate in a joint Tuna RFMO meeting to be held in Rome in December to discuss this issue with other RFMO representatives and experts. From a by-catch point of view the Secretariat presented the data that had been submitted using the ST09 observer data collection forms. It was noted that the amount of information received was generally low and thus it was very difficult for the Sub-committee to assess the impact of ICCAT fisheries on sea turtles. For the same reason it could not assess the efficacy of the new seabird mitigation measures prescribed in Rec [11-09]. It was thus requested that the Secretariat provide a revised recommended version of the ST09 forms in order to simplify them and facilitate increased data submission. In addition, the Secretariat was asked to use the revised Task II catch and effort information in order to improve the estimates of EFFDIS currently available. This is considered a priority when assessing by-catch species.

This support from the Secretariat also included assistance in the coordination of the meeting reports.

5. Infrastructure and technology

There have been no significant changes to the network, although the existing infrastructure has become more consolidated and the following are being improved:

5.1 Disaster Recovery and Business Continuity

A recovery plan is being developed to ensure that in the event of any unforeseen disasters continuity of service is maintained. Physical and virtual servers located in the Secretariat Office should be backed up in a remote CPD as should the external virtual server in which the ICCAT web page is located. The real need goes beyond the remote backup and a replication of all the servers in real time is needed. Once this is done, a disaster recovery plan must be defined. New actions will be done after this topic is solved in order to permit the continuity of the work in the ICCAT Secretariat.

If encryption problems, due to malware or other types of external attacks, occur at ICCAT (as occurs to many companies in the world), these kinds of countermeasures will allow more functionality to the ICCAT systems as the system can be restored to the point that was saved prior to the incident.

With the aim of duplicating the infrastructure and IT assets, it will be necessary to define the budgetary requirements for these tasks. Once this is done, a disk storage system is needed to improve performance and high availability for virtual servers infrastructure.

5.2 Physical servers integration / upgrade

Currently physical servers are being purchased every four years. The Secretariat should reduce the number of servers to a maximum of three in order to reduce VMware virtualization software costs. These three physical and virtualized servers would need to have more hardware resources than a normal physical server. It could be important to investigate alternate ways to acquire physical servers in the future. For the moment, three physical servers are the optimal number for maintaining at the Secretariat.

5.3 Firewall upgrade

It is necessary to upgrade the Palo Alto P-500 firewall in order to use new FTTH fiber optical lines of 300mbps instead of 100mbps lines. Two physical firewalls are needed in order to provide failure tolerance and high availability. This concept has to be extended to other networking hardware as switches.

5.4 Corporate Wi-Fi system

Due to the growth of Wi-Fi use, and for security reasons, it is necessary to improve the ICCAT Secretariat Wi-Fi system. All the Wi-Fi communications have to be integrated and managed. They have to permit at least two kind of Wi-Fi accesses, one for corporate use and other for guest use.

5.5 Cloud computing developments

An increasing large number of intersessional and computer intensive tasks have to be undertaken by SCRS Working Groups. During 2015 the ICCAT cloud-computing servers (<http://meetings.iccat.int>) were 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. The RSCLLOUD server was used for computer intensive tasks. For example to provide advice in the Kobe Advice Framework requires the use of simulation to obtain the probabilities of stock status under different management options. The cloud was also 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 (e.g. <http://134.213.29.249/effdis>). The cloud is also being used to make the stock assessment results available (<http://rscloud.iccat.int/kobe/>) The Github repository is being used to host the Albacore and Bluefin MSE code, the ICCAT software catalogue, and the ICCAT GBYP meta-DB, see (<https://github.com/iccat/>).

The Owncloud web server has now been used for two years by the SCRS and certain 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 commencement of the meetings. In several instances, the Secretariat has been requested to provide access details to non-participants. As there is currently no protocol regarding the provision of access details, the Secretariat would like to clarify the procedures with the SCRS.

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 16** shows the volumes of these series that were published in 2016.

Since 2010, the paper versions of Volumes 1 and 2 of the Biennial Report are published in colour to facilitate the visualization and interpretation of the graphic representations.

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).

Since 2013, the publication of the Statistical Bulletin, which is available in hardcopy and electronic version since 2011, is now biennial. Thus, each volume of the Bulletin will have two parts corresponding to consecutive years. The first part will be published in hardcopy and electronic format, whilst the second part will be an update of the previous one and will only be published in electronic format.

Given that the workload that the publication of the ICCAT Collective Volume of Scientific Papers involved for the Secretariat, due to the fact that most of the papers submitted did not follow the publication guidelines supplied, in 2014 the SCRS agreed that those papers which did not meet a minimum standard would not be published. On this basis, this year the list of papers not included in the published volume includes papers withdrawn by the authors and papers which failed to meet the minimum standard established. The latter, if the SCRS so agrees, may be made available on the ICCAT web site in their original format.

The Secretariat will continue to work on developing software which facilitates editing work undertaken by the Secretariat to maintain the current quality standard of the publications.

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 has 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 Scientific Coordinator 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.

6.3 ICCAT Manual

In 2016, no new requests have been made regarding the Manual.

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 2016, the static content of the web site is being made dynamic, including databases and making searches easier and more extensive. Furthermore, the Secretariat is developing a new and improved web site which will have a new structure and will be accessible and more functional from different mobile devices, tablets and portable computers. The new ICCAT webpage shall be launched during the 2016 Commission meeting.

7. International activities

7.1 Coordinated Working Group on Fishery Statistics (CWP)

Due to scheduling conflicts between SCRS intersessional meetings and the CWP meeting, no Secretariat staff were able to attend the CWP meeting in 2016.

7.2 Monitoring system for fishery resources (FIRMS)

In 2016, the Secretariat updated the species identification sheets for bigeye tuna and north and south blue shark populations which were assessed by the SCRS in 2015.

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 tome 1 and 2 of Volume 68 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 attended an online seminar entitled iMarine Support to Tuna Atlas; From scattered Data to integrated Indicators and SmartForms prototype for Mobile Data Collection of on-Board Scientific Observers Data. The Secretariat remains a member of the iMarine extended board.

7.5 FAO Expert Advisory Panel for Assessment of CITES Marine and Aquatic Species Proposals

The Secretariat provided a representative to the FAO Expert Advisory Panel For Assessment Of CITES Marine And Aquatic Species Proposals meeting held in Rome (6-10 June 2016) The aim of the meeting was to evaluate proposals for listing commercially-exploited aquatic species in CITES Appendices. The Secretariat provided information available at the ICCAT Secretariat regarding the proposed marine species, as well as relevant outputs from the species working groups.

8. ICCAT Scientific programmes

The activities of the ICCAT Atlantic-Wide Bluefin Research Programme (ICCAT GBYP), the Enhanced Research Programme for Billfish (ERPB), ICCAT Year Research Programme for Small Tunas (SMTYP), the Shark Research and Data Collection Programme (SRDCP), the and the Atlantic Ocean Tropical tuna Tagging Programme (AOTTP) are separately presented in reports to the SCRS (see SCI-036, SCI-037, SCI-038, SCI-039 and SCI-040). The Secretariat's participation in these programmes mainly consists in administrative and scientific support. In the administrative area the Secretariat provides assistance with the coordination of research proposals calls, funds administration and oversee of auditory and accounting responsibilities of these programmes. In the 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 2016 the Secretariat actively participated in several of the research programmes components.

9. Other activities

9.1 Collaboration with ISSF

The International Seafood Sustainability Foundation (ISSF) continues providing the Secretariat with detail catch (by vessel trip, species and commercial size category) for all purchases made ISSF-participating companies. These correspond to unloading of Atlantic catches from tropical tunas (bigeye, yellowfin, skipjack) and albacore to canning plants around the world. This information has previously been used by the SCRS scientists to complement and improve the Ghanaian Task II statistics.

9.2 CITES

In 2016 ICCAT and CITES collaborated in order to conduct a training course for field workers, scientists and data managers from the West Africa region (in English, French and Spanish simultaneously). There are several countries in this region that were identified as priority countries for assistance under the EU-CITES project with regard to implementing the new CITES listings for sharks and rays. These workshops were originally planned to be conducted in Cote d'Ivoire in April 2016, however, due to circumstances beyond the control of the Secretariat, the course was moved to Madrid from the 12-15 September 2016. Training covered issues such as species identification, including the provision of ID cards, biological and fisheries sampling techniques, data reporting requirements and implementation of CITES shark listings on Appendix II. Unfortunately due to the change in location, the course became more expensive than was previously budgeted and so additional activities such as the collection of catch and biological data using these funds was no longer possible. The course included 36 participants from 12 countries, all from the West African region. It is hoped that this training will improve the quality of data being collected in the region, leading to significantly increase the member states capacity to make NDFs. This process is not currently possible with the information available. It will also improve the data available to ICCAT for the assessment and management of shark stocks in the region through analysis of the data by the ICCAT shark species group.

9.3 ICES

Considering the fruitful experience ICCAT and ICES have had in recent years with regard to scientific collaboration, there is the willingness of both organisations to strengthen this cooperation and explore new initiatives and discussions 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 and sharks issues, through our Sub-committee on Ecosystems and by-catch and the Shark species group. Specifically, it would be convenient to keep the participation of ICES scientific experts in ICCAT shark stock assessments and vice versa. The Secretariat attended the 2016 ICES Working Group on Sharks (WKSHARKS Lisbon, Portugal, 19-21 January 2016) providing a summary of the ICCAT data on elasmobranchs including catches, fishing effort, size and tagging information. The main work, in recent years, of the ICCAT sharks working task was also highlighted, as well as a summary of the management actions undertaken by the Commission for these species. In addition, discussions have taken place with ICES in 2015 regarding the continuation of the development of stock assessment methods, following on from the highly successful Strategic Initiative on Stock Assessment Methods (SISAM), by potentially holding joint intra-regional stock assessment methods Working Groups from 2016 onwards. Lastly, it was proposed that following the joint ICCAT/ICES training courses that have been held in the past, ICCAT could continue to work with ICES on areas of capacity building.

9.4 GEF- Common Oceans ABNJ Tuna Project

As the ICCAT request for eBCD financial assistance was rejected by the GEF-Common Oceans ABNJ Tuna Project, the cooperation with the programme was submitted to the 2015 ICCAT Commission meeting. It was decided to continue to cooperate with the programme provided that there are benefits to ICCAT. The ICCAT Secretariat is discussing with the management team of the ABNJ project, the possibility to cooperate in the following areas:

- FADs - A joint tuna RFMO FAD Working Group meeting is under discussion and being planned for the near future.
- Implementation of the Ecosystem Approach to Fisheries. The Secretariat (as well as CPC scientists) will participate in an initial EAF meeting to be held at FAO in Rome in December.
- The organisation of the tRFMO-MSE Working Group and follow up activities. A physical meeting will be held in November 2016 at the ICCAT Secretariat in Madrid, with travel support provided by ABNJ.

9.5 *The Agreement on the Conservation of Albatrosses and Petrels (ACAP)*

In 2016, ICCAT signed guidelines for cooperation with ACAP. This cooperation is a non-binding agreement that covers such issues as participation as observers in each other's meetings, as well as consultation, cooperation and collaboration on issues of common issue.

10. ICCAT funds for data improvement and capacity building

To improve data collection and strengthen the capacity of the scientists from some 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 2013, in a third phase, with the ICCAT/Japan Capacity-Building Assistance Improvement Project (JCAP) (the report is contained in document SCI-009).

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.

Later, in 2008, 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. The European Union funds were available from 2008 to 2012.

In 2014, the Commission adopted the *Recommendation by ICCAT amending Recommendation [11-26] on the Establishment of a Meeting Participation Fund for Developing Contracting Parties* [Rec. 14-14], for the participation to 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 2015, the CITES fund was created. This fund was created to facilitate the two workshops mentioned in item 9.2 as well as to provide funding for additional data collection to improve the data available for shark species in the region.

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 at meetings. The protocol also includes the criteria to be followed for allocation of funds.

On the basis of this protocol, in 2016 the funds have been used as follows:

- Participation at SCRS meetings: 62 scientists from Algeria, Brazil, Cabo Verde, Côte d'Ivoire, El Salvador, Ghana, Liberia, Mauritania, Mexico, Morocco, Namibia, São Tomé and Príncipe, Senegal, Sierra Leone, Tunisia, Uruguay and Venezuela, were funded to attend the SCRS scientific meetings.
- Improvement of statistics: Training Course for the Capacity Building on Tuna Fisheries Research and the Restructuring and Recovery of Statistic System in São Tomé e Príncipe (supported by JCAP).

- Support to the SCRS work: At its 2015 meeting, the Commission approved a specific budget to support the SCRS, charged to the ICCAT Working Capital Fund to finance: the code migration, which started in 2014 with the vessel database, the numerous applications which interact with various databases of the ICCAT-DB system (€75,000.00); peer revision and/or expert for the Billfish, Tropical Tunas and Albacore Species Groups (€36,000.00); Shark Research and Data Collection Programme (SRDCP) (€65,000.00); and Small Tunas Tagging Programme (€82,500.00).

Training course in CPUE standardization: researcher from Ghana, Senegal and São Tomé and Príncipe attended the workshop developed by the Secretariat. The course focused on preliminary analyses of catch and effort data of sailfish from artisanal fisheries in preparation for the respective SCRS stock assessment.

11. Major Tasks on statistics planned for 2016

During 2016, the Secretariat undertook an exhaustive work plan in terms of statistical related tasks, aiming to complete all the major SCRS demands and priorities for 2016. A reasonable part of the priority tasks were finalised in a timely manner, and the outcome used by the SCRS during 2016. However, several ongoing priority projects (the ICCAT-DB documentation framework, full revision of the tagging database and the respective frontend applications, the ICCAT GIS system with the various shape files, deployment of statistical databases on the ICCAT cloud) have been partially implemented or totally postponed for 2017. It is important to note that, those postponed projects had no negative impact on the accomplishments of the SCRS requirements for 2016.

The JAVA project (after the excellent achievements of 2015) was enlarged by an additional year aiming to incorporate new developments (unattended data integration software, web-form prototyping, ICCAT-DB improvements in structure and automation tools, improvements in various applications, applications to handle the data received in form ST09-NatObPrg). This required extensive coding due to the complexity of the projects. The Secretariat has also undertaken additional training in JAVA technologies (however, not sufficient) aiming to maintain and continue the development of applications as well as other resources and tools for the maintenance of the ICCAT databases.

The Secretariat has recently finalised (under the JAVA project) the first version of the “unattended” data integration software. This application (now working with the first six statistical forms: ST01 to ST06) was responsible for validating/storing in the ICCAT-DB system nearly 30% of all the statistical forms received during 2016. The Secretariat expects to process with this new tool the majority of the statistical forms (ST01 to ST06) received during 2017. In addition, in the beginning of 2017 (after preparing the 2017 forms version), the Secretariat will make available to the CPC a tool (using the same code base) that validates the forms ST01 to ST06 before submitting the final forms to ICCAT. It is expected that, this tool will help the ICCAT CPCs to easily pass the SCRS validation criteria. The web-based form prototyping (using form ST09) for submitting data to ICCAT has just started and require several months of development. All over 2017, the Secretariat is previewing to deploy on the ICCAT cloud the respective web application for testing and feedback from the ICCAT scientists.

Lastly, the old and outdated ICCAT VMS system (as presented to the SCRS in 2015) was updated in 2016.

12. Secretariat staff and organization

Detailed information on the structure and the Secretariat staff is available on the ICCAT web site (www.iccat.int/).

Table 1. Task I fleet characteristics (new form ST01-T1FC) submission status for 2015 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 2015 (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 2015 ("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).

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

NOTES:
 NO FISHING ACTIVITY (green): Gabon, Guinée Rep., Liberia, Nigeria, Philippines, UK.Turks & Caicos,Uruguay, Suriname
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), Norway, EU.Germany, EU.Netherlands
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, South Africa (require revisions)

Table 2. Task I nominal catch (form ST02-T1NC) submission status for 2015 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 2015 (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 2015 ("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): 2016-08-01											Small tuna			Sharks (major sp.)				
			Tuna (major sp.)									Small tuna			Sharks (major sp.)						
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT	(any of 14 sp)			BSH	POR	SMA			
CP	ALBANIA	Albania			1												0		-0.2		
	ALGÉRIE	Algerie			1								0						-0.2		
	ANGOLA	Angola																			
	BARBADOS	Barbados	1	1		1	1	1		1	1	1									
	BELIZE	Belize	1	1		1	1	1		1	1	1									
	BRAZIL	Brazil																			
	CANADA	Canada	1	1	1	1				1	1	1									
	CAP-VERT	Cape Verde	1	1						1											
	CHINA PR.	China PR	1	1	1	1	1			1	1	1									
	CÔTE D'IVOIRE	Côte d'Ivoire		1		1	1	1			1	1									
	CURAÇAO	Curaçao	1	1						1											
	EGYPT	Egypt			1																
	EL SALVADOR	El Salvador		0						0											
	EUROPEAN UNION	EU.Bulgaria																			
		EU.Croatia	1		1						1										
		EU.Cyprus	1		1						1										
		EU.Denmark																			
		EU.España	1	1	1	1	1	1		1	1	1									
		EU.Estonia																			
		EU.France	1	1	1	0	-0.2	1		-0.2	1			1					0	0	0
		EU.Germany																			
		EU.Greece	1		1						1										
		EU.Ireland	1		1						1										
		EU.Italy	1		1						1										
		EU.Latvia																			
		EU.Lithuania																			
		EU.Lithuania																			
		EU.Malta	1		1						1										
		EU.Netherlands																			
		EU.Portugal	1	1	1	1	1	1			1	1	1								
		EU.Sweden																			
		EU.United Kingdom	1								1			1							
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon			1																
	GABON	Gabon			1																
	GHANA	Ghana			1		1	1			1										
	GUATEMALA	Guatemala	0	0							0										
	GUINEA ECUATORIAL	Guinea Ecuatorial	1	1	1			1	1												
	GUINÉE REP.	Guinée Rep.																			
	HONDURAS	Honduras																			
	ICELAND	Iceland			1																
	JAPAN	Japan	1	1	1	1	1	1	1	1	1	1	1								
	KOREA REP.	Korea Rep.	1	1			1	1	1			1									
	LIBERIA	Liberia																			
	LIBYA	Libya			1																
	MAROC	Maroc		1	1	1				1		1									
	MAURITANIA	Mauritania																			
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1								
	NAMIBIA	Namibia	-0.2	-0.2			-0.2					-0.2								-0.2	-0.2
	NICARAGUA	Nicaragua																			
	NIGERIA	Nigeria																			
	NORWAY	Norway			1																
	PANAMA	Panama	-0.2	-0.2																	
	PHILIPPINES	Philippines																			
	RUSSIA	Russian Federation																			
	S. TOMÉ E PRINCIPE	S. Tomé e Príncipe		1		1	1	1			1	1	1								
	SENEGAL	Senegal	1	1		0	0	1			0			1						0	0
	SIERRA LEONE	Sierra Leone																			
	SOUTH AFRICA	South Africa	-0.2	-0.2			-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2							-0.2
	St VINCENT & GRENADINES	St. Vincent and Grenadines	-0.2	-0.2			-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2							-0.2
	SYRIA	Syria			1																
	TRINIDAD and TOBAGO	Trinidad and Tobago	1	1		1	1				1	1	1								
	TUNISIE	Tunisie			1							-0.2									
	TURKEY	Turkey	1		1						1										
	UNITED KINGDOM (O.Territories)	UK.Bermuda	0	0		0					0	0	0	0							
		UK.British Virgin Islands				-0.2						-0.2									
		UK.Sta Helena		0			0				0										
		UK.Turks and Caicos																			
	UNITED STATES	U.S.A.	1	1	1	1	1	1			1	1	1								
	URUGUAY	Uruguay																			
	VANUATU	Vanuatu																			
	VENEZUELA	Venezuela	1	-0.2			-0.2	1	-0.2	-0.2	-0.2	-0.2	-0.2	1							-0.2
NCC	Bolivia	Bolivia																			
	Chinese Taipei	Chinese Taipei	1	1			1	1	1	1	1	1	1								
	Guyana	Guyana																			
	Suriname	Suriname																			
NCO	Non-contracting parties	Saint Kitts and Nevis																			
		Sta. Lucia	1	1			1	1	1			1	1	1							

NOTES:
 NO FISHING ACTIVITY (green): Gabon, Guinée Rep., Liberia, Nigeria, Philippines, UK.Turks & Caicos,Uruguay, Suriname
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), Norway, EU.Germany, EU.Netherlands
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, South Africa (require revisions)

Table 3. Task II catch and effort (form ST03-T2CE) submission status for 2015 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 2015 (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 2015 ("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): 2016-08-01										Small tuna			Sharks (major sp.)			
			Tuna (major sp.)										(any of 14 sp)			BSH POR SMA			
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT							
CP	ALBANIA	Albania																	
	ALGÉRIE	Algerie			-0.2														
	ANGOLA	Angola	1	1				1											
	BARBADOS	Barbados	1	1			1	1											
	BELIZE	Belize	1	1				1											
	BRAZIL	Brazil	1	1	1	1	1	1											
	CANADA	Canada	1	1	1	1		1											
	CAP-VERT	Cape Verde	0	0				0											
	CHINA PR	China PR	1	1	1	1	1		1	1	1	1							
	CÔTE D'IVOIRE	Côte d'Ivoire		-0.2			-0.2	-0.2	-0.2										
	CURAÇAO	Curaçao	0	0				0											
	EGYPT	Egypt																	
	EL SALVADOR	El Salvador		0				0											
	EUROPEAN UNION	EU.Bulgaria																	
		EU.Croatia	1		1					1									
		EU.Cyprus	1		1					1									
		EU.Denmark																	
		EU.España	1	0	1			-0.2	1										
		EU.Estonia																	
		EU.France	1	1					1										
		EU.Germany																	
		EU.Greece	-0.2		-0.2					1									
		EU.Ireland	1		1					1									
		EU.Italy	1		1					1									
		EU.Latvia																	
		EU.Lithuania																	
		EU.Malta	1		1														
		EU.Netherlands								1									
		EU.Portugal	1	1	1	1	1	1		1	1	1							
		EU.Sweden																	
		EU.United Kingdom	1		1					1		1							
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon			1														
	GABON	Gabon																	
	GHANA	Ghana		-0.2			-0.2	-0.2	-0.2										
	GUATEMALA	Guatemala	0	0					0										
	GUINEA ECUATORIAL	Guinea Ecuatorial																	
	GUINÉE REP.	Guinée Rep.																	
	HONDURAS	Honduras																	
	ICELAND	Iceland			-0.2														
	JAPAN	Japan	1	1	1	1	1	1	1	1	1	1							
	KOREA REP.	Korea Rep.	1	1		1	1	1		1		1							
	LIBERIA	Liberia																	
	LIBYA	Libya			1														
	MAROC	Maroc		1	1					1		1							
	MAURITANIA	Mauritania																	
	MEXICO	Mexico	1	1	1	1	1	1	1										
	NAMIBIA	Namibia	1	1		1		1		1		1							
	NICARAGUA	Nicaragua																	
	NIGERIA	Nigeria																	
	NORWAY	Norway																	
	PANAMA	Panama																	
	PHILIPPINES	Philippines																	
	RUSSIA	Russian Federation							1										
	S. TOMÉ E PRÍNCIPE	S. Tomé e Príncipe																	
	SENEGAL	Senegal	1	1		0	0	1		0		1					0	0	
	SIERRA LEONE	Sierra Leone																	
	SOUTH AFRICA	South Africa																	
	St VINCENT & GRENADINES	St. Vincent and Grenadines	0	0			0	0	0	0		0							
	SYRIA	Syria																	
	TRINIDAD and TOBAGO	Trinidad and Tobago	0	0		0	0			0	0	0					0		
	TUNISIE	Tunisie																	
	TURKEY	Turkey	1		1					1									
	UNITED KINGDOM (O.Territories)	UK.Bermuda	0	0	0					0		0					0		
		UK.British Virgin Islands																	
		UK.Sta Helena		0		0		0		0		0							
		UK.Turks and Caicos																	
	UNITED STATES	U.S.A.	1	1	1	1	1	1		1	1	1							
	URUGUAY	Uruguay																	
	VANUATU	Vanuatu																	
	VENEZUELA	Venezuela	1	1		1	1	1	1	1	1	1					1		1
NCC	Bolivia	Bolivia																	
	Chinese Taipei	Chinese Taipei	1	1		1	1	1	1	1	1	1					1		1
	Guyana	Guyana																	
	Suriname	Suriname																	

NOTES:
 NO FISHING ACTIVITY (green): Gabon, Guinée Rep., Liberia, Nigeria, Philippines, UK.Turks & Caicos,Uruguay, Suriname
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), Norway, EU.Germany, EU.Netherlands
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, South Africa (require revisions)

Table 4. Task II size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2015 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 2015 (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 2015 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o sin muestreo).

Status	Party	Flag	Deadline (+1 day tolerance): 2016-08-01										Small tuna			Sharks (major sp.)		
			Tuna (major sp.)										(any of 14 sp)			BSH POR SMA		
			ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT						
CP	ALBANIA	Albania																
	ALGÉRIE	Algerie			-0.2					-0.2								
	ANGOLA	Angola																-0.2
	BARBADOS	Barbados			1		1				1	1						
	BELIZE	Belize		-0.2	-0.2					-0.2		-0.2						
	BRAZIL	Brazil																
	CANADA	Canada		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	
	CÔTE D'IVOIRE	Côte d'Ivoire															1	
	CURAÇAO	Curaçao																
	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	1
		EU.Estonia																
		EU.France		1	1	1			1			1					1	
		EU.Germany																
		EU.Greece									-0.2							
		EU.Ireland		1														
		EU.Italy		1		1				1							1	
		EU.Latvia																
		EU.Malta		1		1				1							1	
		EU.Netherlands																
		EU.Portugal		1	1	1	1		1	1	1	1	1	1	1	1	1	1
		EU.Sweden																
		EU.United Kingdom																
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon																
	GABON	Gabon																
	GHANA	Ghana																
	GUATEMALA	Guatemala		0	0				0			0					0	
	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	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	
	MAURITANIA	Mauritania																
	MEXICO	Mexico			1	1	1	1	1			1	1	1	1	1	1	1
	NAMIBIA	Namibia		1	1													
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway																
	PANAMA	Panama																
	PHILIPPINES	Philippines																
	RUSSIA	Russian Federation																-0.2
	S. TOMÉ E PRINCIPE	S. Tomé e Príncipe																
	SENEGAL	Senegal		1	1				0	1			1				1	
	SIERRA LEONE	Sierra Leone																
	SOUTH AFRICA	South Africa																
	St VINCENT & GRENADINES	St. Vincent and Grenadines																
	SYRIA	Syria																
	TRINIDAD and TOBAGO	Trinidad and Tobago																
	TUNISIE	Tunisie																
	TURKEY	Turkey		1		1				1							1	
	UNITED KINGDOM (O.Territories)	UK.Bermuda																
		UK.British Virgin Islands																
		UK.Sta Helena																
		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																-0.2
NCC	Bolivia	Bolivia																
	Chinese Taipei	Chinese Taipei		1	1				1	1	1	1	1	1	1	1	1	1
	Guyana	Guyana																
	Suriname	Suriname																

NOTES:

NO FISHING ACTIVITY (green): Gabon, Guinée Rep., Liberia, Nigeria, Philippines, UK.Turks & Caicos,Uruguay, Suriname
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), Norway, EU.Germany, EU.Netherlands
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, South Africa (require revisions)

Table 5a. Summary of the number of tags applied and recovered by flag CPC between 2015-09-05 and 2016-10-15 (flag CPCs that have carried out tagging are indicated in the columns and flag CPCs that have recovered are indicated in the rows).

Tableau 5a. Résumé du nombre de marques apposées et récupérées par CPC de pavillon entre 2015-09-05 et 2016-10-15 (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).

Tabla 5a. Resumen de número marcas puestas y recuperadas por CPC de pabellón entre 2015-09-05 y el 2016-10-15 (CPC de pabellón que han marcado indicadas en columnas y CPC de pabellón que han recuperado indicados en filas).

	Canada	EU.Germany	EU.España	EU.France	EU.Ireland	EU.Italy	EU.Malta	EU.Portugal	EU.United Kingdom	Japan	Maroc	New Zealand	Turkey	UK.Sta. Helena	Uruguay	U.S.A.	UNCL.FLEETS	Total
Brasil															1			1
Canada	1																6	7
EU.Cyprus																	1	1
EU.España	10		49		19			1	34	1		2				89	37	242
EU.France																	2	2
EU.Italy						2											6	8
EU.Malta																	13	13
EU.Portugal					7				12							10		29
Croatia			1														8	9
Maroc																	2	2
Tunisie																	1	1
Turkey													1				2	3
U.S.A.																3	2	5
UNCL.FLEETS			2		2				3		1					7	1	16
Not recovered	490	2	1305	2		830	30	135			24			484		186		3488
Total	501	2	1357	2	28	832	30	136	49	1	25	2	1	484	1	295	81	3827

Table 5b. Summary of the conventional tags distributed by the Secretariat between 2015-09-05 and 2016-10-15.

Tableau 5b. Résumé des marques conventionnelles distribuées par le Secrétariat entre le 2015-09-05 et le 2016-10-15.

Tabla 5b. Resumen de las marcas convencionales distribuidas por la Secretaría entre 2015-09-05 y el 2016-10-15.

TagAlfa	From	To	Quantity	DateSent	Institution	Principal Investigator	Country
BYP	25876	25925	50	2015-12-03	GENERAL FISHERIES COMMISSION FOR THE MEDITERRANEAN	Stefano Cataudella	EU.ITALY
BYP	25926	25975	50	2016-03-21	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
BYP	25976	26000	25	2016-04-27	IFREMER - Dpt. Recherche Halieutique	Tristan Rouyer	EU.FRANCE
BYP	26001	26100	100	2016-06-29	IPMA	Rui Coelho	EU.PORTUGAL
BYP	26101	27100	1000	2016-07-20	FIPSAS	Various/unknown	EU.ITALY
BYP	29001	29075	75	2016-04-27	IFREMER - Dpt. Recherche Halieutique	Tristan Rouyer	EU.FRANCE
BYP	61251	61350	100	2016-05-12	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
BYP	61401	61900	500	2016-07-05	OCEANIS srl	Paolo PIGNALOSA	EU.ITALY
BYP	61901	61950	50	2016-07-20	Ministerio de Educación y Ciencia	Pedro José Pascual Alayón	EU.ESPAÑA
BYP	61951	62150	200	2016-08-24	Cornwall Wildlife Trust	Tom Horton	EU. UNITED KINGDOM
BYP	62151	62250	100	2016-09-23	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
BYP	75601	75700	100	2016-06-29	IPMA	Rui Coelho	EU.PORTUGAL
BYP	75701	76000	300	2016-07-05	OCEANIS srl	Paolo PIGNALOSA	EU.ITALY
BYP	76001	76600	600	2016-07-29	SABS/Large Pelagics Group	Alex Hanke	CANADA
BYP	76601	76800	200	2016-08-24	Cornwall Wildlife Trust	Tom Horton	EU. UNITED KINGDOM
BYP	76801	76900	100	42636	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
SEC	7950	7999	50	42341	IPMA	Rui Coelho	EU.PORTUGAL

Table 7a: Information provided in form ST09-NatObProg on sea turtle species (including discards) by CPCs for 2015. Values are in kgs and numbers.

Tableau 7a. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de tortues marines (rejets y compris) par CPC au titre de 2015. Les valeurs sont exprimées en kg et nombre.

Table 7a: Información de 2015 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.

Species group	Common Name	Species code	Catches (Number [n] /weight [kg]) [DL and DD always in Number [n]]																																					
			Belize			Canada			EU.Cyprus			EU.France			EU.Portugal			EU.Spain(AZTI IEO)			Japan			Korea			USA			Venezuela			Chinese Taipei							
			n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)		
6-Turtles	Leatherback turtle	DKK				9	2254		8				5			10	9	1	2	543	2	8	16	7	1		2		0	24	0	1	20							
	Olive Ridley turtle	LKV	6		4	2							45		1	32		24	8	28	931.2	28	14	221	8	6		2										4	2	
	Kemp's ridley turtle	LKY										1																							1	5				
	Hawksbill turtle	TTH										1																												
	Loggerhead turtle	TTL				5	188		5				16			3		1	2				11	217	1	10		1	20	0						1				
	Marine turtles nei	TTX							0	0	8	2	13									10	3	7	1															
	Green turtle	TUG										3						1	8.48	1																				

Table 7b: Information provided in form ST09-NatObProg on sea turtle species (including discards) by CPCs for 2015. Values are in kgs and numbers.

Tableau 7b. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de d'oiseaux marins (rejets y compris) par CPC au titre de 2015. Les valeurs sont exprimées en kg et nombre.

Table 7b: Información de 2015 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.

Species group	Common Name	Species code	Catches (Number [n] /weight [kg]) [DL and DD always in Number [n]]											
			Belize				Canada				Japan			
			n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)	n	kg	DL (n)	DD (n)
5-Seabirds	Albatrosses nei	ALZ									43	87	1	42
	Tristan albatross	DBN									3	23		3
	Grey-headed albatross	DIC									164	118		164
	Black-browed albatross	DIM									16	119		16
	Wandering albatross	DIX									10	83	2	8
	Northern fulmar	FNO									1	1		1
	Great black-backed gull	LVU				1	3		1					
	Hall's giant petrel	MAH									5	4	2	3
	Antarctic giant petrel	MAI									3	9		3
	Grey petrel	PCI									10	5		10
	Light-mantled sooty albatross	PHE									11	5		11
	Sooty albatross	PHU									17	29		17
	White-chinned petrel	PRO									6	8		6
	Great shearwater	PUG	8		6	2					7	8		7

Table 8a. Historical revisions to Task I nominal catch (t), by flag, species and year, which have been integrated into the ICCAT-DB system (with an SCRS document) but have pending the SCRS approval.
 Tableau 8a. Révisions historiques de la prise nominale de Tâche I (t) par pavillon, espèce et année, qui ont été saisies dans le système de bases de données de l'ICCAT (avec un document SCRS) mais qui n'ont pas encore été approuvées par le SCRS.
 Tabla 8a. Revisións 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) pero que están pendientes de la aprobación del SCRS.

Flag	GearGrp	SpeciesGrp	Species	Fleet	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	Remarks			
Côte d'Ivoire	PS	1-Tuna (major sp.)	BET	CIV-CI-ETRO						3	130		339	721		6	1640	1129	1295	628	1425	1308	1041	450	76										
			SKJ	CIV-CI-ETRO							289	894	1166	810	2117	1518	2708	5692	4838	3350	3836	5486	6357	4969	1613	1094									
			YFT	CIV-CI-ETRO							523	1296	2629	2350	2968	6426	7353	9465	9993	8928	10970	9670	8051	1143	891										
EU.France	BB	1-Tuna (major sp.)	BET	EU.FRA-FR-ETRO	10	40	1730	150	2109	1077	1024	1059	1224	981	1325	1333	2541	3530	2004	2407	2164	1832	2062	2122	3846	3142	2535	2503	2040	2739	2258				
			SKJ	EU.FRA-FR-ETRO	2624	2948	3046	6833	3270	3830	4874	3439	3201	4375	1760	2070	2592	3220	3326	3110	2498	4378	2655	3655	3152	1612	1783	2520	3802	3352	1147				
			YFT	EU.FRA-FR-ETRO	12459	11778	11267	15423	12463	6366	6443	6422	5486	6240	2841	3577	3327	2727	2205	2111	2913	3034	2728	3383	2736	3463	3525	4304	2197	3671	4571				
	PS	1-Tuna (major sp.)	BET	EU.FRA-FR-ETRO						1237	2011	1804	2565	2000	3026	2754	4488	4535	3877	3771	3205	4292	3769	4861	1463	380	980	900	1521	1221	2284				
			SKJ	EU.FRA-FR-ETRO						2404	6270	9794	10026	5240	17224	6926	11229	21386	15538	11530	18752	17971	18608	21008	4740	5913	9706	13423	12241	10782	13644				
			YFT	EU.FRA-FR-ETRO						13510	13417	13276	17896	19656	25130	34748	38685	36223	41442	36484	41260	41874	33171	35436	2571	7587	13090	13085	15926	28405	41901				
Senegal	BB	1-Tuna (major sp.)	BET	SEN-SN-ETRO					251	382	324	10			4	32	28	81	34	43	34			24	188	86	144	4			5				
			SKJ	SEN-SN-ETRO	76	352	684	487	299	389	718	260	26	50	23	66	50	93	42	69	110				150	141	282	174	280	374	103	343			
			YFT	SEN-SN-ETRO	241	1272	3083	3227	1564	1090	985	989	7	34	25	105	64	74	56	31	40				77	138	334	253	104	143	112	52			
PS	1-Tuna (major sp.)	BET	SEN-SN-ETRO						48	412	690	320	879	473	818	626	226	368	204			105	165	160	195	125	58	326	133						
		SKJ	SEN-SN-ETRO						183	1274	2415	3304	2236	3372	2171	966	1418	2214	440			861	1789	1095	2836	3345	1445	1734	1463	253					
		YFT	SEN-SN-ETRO						936	2727	4069	5908	5865	4173	3069	1904	869	956	189			588	1461	1163	1024	1843	869	628	989	62					
Côte d'Ivoire	GN	1-Tuna (major sp.)	SAI	CIV																													24		
Venezuela	GN	4-Sharks (major)	SMA	VEN							3	4	1	4	3	6	6	8	4	7	4	5	6	6	7	8	8	6	6	5					
			SKH	VEN								6	6	1	6	5	9	9	11	6	11	6	7	9	10	12	36	35	10	28	22				
			LL	4-Sharks (major)	SMA	VEN						3	2	3	8	1	2	1	3	4	12	3	1	2	2	20	16	22							
Ghana	BB	1-Tuna (major sp.)	BET	GHA																															
			SKJ	GHA																															
			YFT	GHA																															
PS	1-Tuna (major sp.)	BET	GHA-ETRO-A																																
			GHA-ETRO-P																																
			GHA-ETRO-A																																
			GHA-ETRO-P																																
			YFT	GHA-ETRO-A																															
PS	1-Tuna (major sp.)	SKJ	GHA-ETRO-A																																
			GHA-ETRO-P																																
			GHA-ETRO-A																																
			GHA-ETRO-P																																
			YFT	GHA-ETRO-A																															
PS	1-Tuna (major sp.)	YFT	GHA-ETRO-A																																
			GHA-ETRO-P																																
			GHA-ETRO-A																																
			GHA-ETRO-P																																
			GHA-ETRO-P																																

Table 8b. Task I catches (t), by flag, species, fleet and year, which were not integrated into the ICCAT-DB system due to various reasons. Those series require SCRS guidance and approval.

Tableau 8b. Prises de Tâche I (t) par pavillon, espèce, flottille et année, qui n'ont pas été saisies dans le système de bases de données de l'ICCAT pour divers motifs. Ces séries doivent être soumises à l'orientation et approbation du SCRS.

Tabla 8b. 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.

Flag	GearGrp	SpeciesGrp	Species	Fleet	1980	1981	1982	1983	1984	1985	1986	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	...	2011	2012	2013	2014	Remarks	Status				
EU.France	HL	1-Tuna (major sp.)	ALB	EU.FRA-FR									13		4	3	13	5	18	7							French ALB series reported as Task I (much lower than current Task I)	Pending (INFO requested by SCRS)				
	TR	1-Tuna (major sp.)	ALB	EU.FRA-FR	555	1129	751	569	602	323	227	11	196	101	189	22	14	40	44	22	7											
	TW	1-Tuna (major sp.)	ALB	EU.FRA-FR								236	774	461	1360	851	858	941	1123	1327	414											
Ghana	BB	1-Tuna (major sp.)	YFT	GHA																								Ghana Official Task I data (fraction ?)	discarded (SCRS)			
	PS	1-Tuna (major sp.)	YFT	GHA																								(replace estimations of WG-YFT, 2016 ?)				
Sierra Leone	PS	1-Tuna (major sp.)	BET	SLE-BRA																												
				SLE-CPV																												
				SLE-CUW																												
				SLE-ESP																												
				SLE-EST																												
				SLE-PAN																												
				SKJ	SLE-BRA																											
				SLE-CPV																												
				SLE-CUW																												
				SLE-ESP																												
				SLE-PAN																												
				YFT	SLE-BRA																											
				SLE-CPV																												
				SLE-CUW																												
				SLE-ESP																												
SLE-PAN																																
SLE-TAI																																
2-Tuna (small)	LTA	SLE-ESP																														

Table 8c. Flag CPCs who reported "zero" catches in the new Task I nominal catches sub-form ST02B (of ST02-T1NC) for 2015, by major species/stock

Tableau 8c. CPC de pavillon ayant déclaré des captures « zéro » dans le nouveau sous-formulaire de prises nominales de la Tâche I ST02B (du ST02-T1NC) pour 2015, par espèce/stock principal(e).

Tabla 8c. CPC del pabellón que han comunicado capturas "cero" en el nuevo subformulario ST02B (del ST02-T1NC) de capturas nominales de Tarea I por especie/stock principal.

Status	Flag CPC (*)	1-Tuna (major sp.)												2-Tuna (small)					4-Sharks (major)			5-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	PTH	SPK	SPL	SPZ				
CP	Angola			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Barbados	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Brazil				✓	✓	✓		✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Cape Verde	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	China PR	✓				✓			✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Côte d'Ivoire			✓	✓	✓		✓																			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Curaçao	✓	✓			✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	El Salvador	✓	✓	✓		✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	EU.Croatia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Cyprus		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Malta																										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Netherlands	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.United Kingdom				✓	✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Ghana	✓	✓	✓		✓	✓		✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Iceland	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Japan	✓																																				✓		
	Korea Rep.	✓				✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												✓		
	Mexico																										✓	✓							✓	✓	✓	✓	✓	
	Namibia	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Panama	✓				✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Russian Federation		✓	✓	✓	✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	S. Tomé e Príncipe			✓		✓	✓																				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Senegal					✓	✓																				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	St. Vincent and Grenadines	✓				✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Trinidad and Tobago	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	U.S.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	UK.Bermuda	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	UK.Sta Helena			✓	✓	✓	✓	✓	✓	✓																	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	EU.France	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NCC	Chinese Taipei					✓	✓																														✓	✓		
NCO	Saint Kitts and Nevis	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

* CPCs who also reported "zero" catches in the main Task I form (ST02A): Belize, Canada, Egypt, EU.España, EU.France, EU.Portugal, Japan, Korea Rep., Maroc, Syria, Turkey, Venezuela, Chinese Taipei, St Kitts and Nevis

Table 11. Bluefin tuna catches (in weight [kg] and numbers of fish [n]) reported under the Bluefin Catch Document Program (BCD). Updated as of October 15, 2016.

Tableau 11. Prises de thon rouge (en poids [kg] et en nombres de poissons [n]) déclarées dans le cadre du Programme de documentation des captures du thon rouge (BCD). Actualisée au 15 octobre 2016.

Tabla 11. Capturas de atún rojo (en peso [kg] y número de peces [n]) declaradas en el marco del programa de documentación de capturas de atún rojo (BCD). Actualizado a 15 de septiembre de 2016.

Year (bcd)	Fishing Flag	Weight (t)											Number											
		BB	HL	HP	LL	PS	RR	TP	TR	TW	UN	TOTAL	BB	HL	HP	LL	PS	RR	TP	TR	TW	UN	TOTAL	
2014	Albania					34						34					320						320	
	Algerie					244						244					3041						3041	
	Canada		3	0	16			11	1			1	33		12	17	137		61	3			7	237
	China PR				38							38				197								197
	Egypt					77						77					520							520
	EU.Croatia		6		1	378					0	385		146		28	35119				3			35296
	EU.Cyprus				17							17				318								318
	EU.España				13	1122			1121			2256				92	7817		6694					14603
	EU.France	58	7		8	1995	0			0	15	1	2085	3012	380	197	14403	18			19	124	6	18159
	EU.Italy				98	1531			224		0	1	1854			1099	13232			4330		4	17	18682
	EU.Malta				76	68						0	144			484	674						11	1169
	EU.Portugal								242				242							1295				1295
	Iceland				22						6		28			122						26		148
	Korea Rep.					81						81					572							572
	Libya					933						933					9147							9147
	Maroc				132	176			959			1267				1380	1620		4560					7560
	Mexico				44							44				200								200
Norway										0	0										1		1	
Tunisie					1307						1307					13757							13757	
Turkey		0			553						3	556		7		6645						59	6711	
2014 Total		58	17	0	466	8496	11	2546	0	22	6	11624	3012	545	17	4254	106867	79	16882	22	155	100	131933	
2015	Albania					40						40					303						303	
	Algerie					370						370					5085						5085	
	Canada			0	23			4				0	27			1	143		21			1	166	
	China PR				43							43				245								245
	Egypt					155						155					1203						1203	
	EU.Croatia		17		4	446						468		344		351	42736						43431	
	EU.Cyprus		0		22							22			4	380							384	
	EU.España					1171			1485			2657					8304		8968				17272	
	EU.France					2293						2293					17152						17152	
	EU.Italy				171	1687			191			0	2050			1129	14261		3496			4	18890	
	EU.Malta		0		44	130						1	175		1	256	1233					10	1500	
	EU.Portugal				0				262				262			2			1387					1389
	Libya					1153						1153					12042							12042
	Maroc		92			184			1176			1452		712		1147		5396						7255
	Mexico				14							14				68								68
	Syria					40						40					357							357
	Tunisie					1248						1248					12815							12815
Turkey		0			957						7	964		4		14024						113	14141	
UK.Bermuda				0							0				2								2	
2015 Total		110	0	322	9875	4	3114	9			13434	1065	1	2576	130662	21	19247				128	153700		
2016	EU.Croatia		2								2				47								47	
	EU.Cyprus				13						13					288							288	
	EU.España							958			958							5958					5958	
	EU.Portugal		1		3			0			5				8	23			1				32	
2016 Total		3		16			958	977			977			55	311		5959					6325		

Table 12b. Reported catch (t) of BFT (Eastern and Western stocks) according to the Monthly Catch Reports (2016 is incomplete) as of October 15, 2016.
 Tableau 12b. Prises déclarées (t) de thon rouge (stocks de l'Est et de l'Ouest) d'après les rapports mensuels de capture (l'année 2016 est incomplète) au 15 octobre 2016.
 Tabla 12b. Captura declarada (t) de atún rojo (stocks del Este y del Oeste) según los informes de captura mensuales (2016 está incompleto) a 15 de octubre de 2016.

Catch (t)			Eastern Stock Unit													Grand Total		
Season Year	Fishing Year	Month	Albania	Algerie	China PR	Egypt	European Union	Iceland	Japan	Korea Rep	Libya	Maroc	Norway	Syria	Tunisie		Turkey	
2014	2014	1					1								0		0	
		2					58							0	0	0		0
		3					136							0	0	0		0
		4					119							0	0	0		1
		5	0	0		0	4565				29	91	1080			0	0	205
		6	32	244		77	2184				51	842	56			0	1057	340
		7					226						64			0		0
		8					222		10	0			63		0			7
		9					128		20	34			8		0			0
		10					53		0	951								1
		11					17		21	31	0	149						0
		12								48	0	0						0
2014 Total			32	244	38	77	7770	30	1134	81	933	1270	0	0	1057	555	13221	
2015	2015	1					1						0				0	
		2					25						0	0			0	
		3					199						0	1				0
		4					226						0					0
		5		0			5996					0	1288				0	427
		6	40	342		155	1865					1155	72				1248	650
		7					258		2				98					0
		8					170		21	0			28		0			0
		9					104		13	12			5		7			12
		10				45	124		0	1134			8					2
		11					40		0	190								1
		12					62		0	50								0
2015 Total			40	342	45	155	9070	36	1386	1155	1498	8	8	1248	1091	16073		
2016	2016	1					36					0					0	
		2					35					0					0	
		3					282						0	1				0
		4					201						0					0
		5		0			5534					0	1579					476
		6		450			2692					1367	64				1461	839
		7					660						70					0
		8					391		4						0			0
		9							2			81						0
		2016 Total			450	450	45	155	9830	6	1386	81	1367	1772	1	1	1461	1316

Catch (t)			Western Stock Unit						Grand Total
Season Year	Fishing Year	cmMonth	Canada	FR.St Pierre et Miquelon	Japan	Mexico	UK.Bermuda	U.S.A.	
2014	2014	1	0	0		13		5	18
		2	0	0		30		14	45
		3	0	0		6		48	53
		4	0	0		3		14	17
		5	0	0		0		13	13
		6	0	0		0		53	53
		7	9	0		0		81	89
		8	24	0	12	0		132	168
		9	246	0	53	0		159	458
		10	151	0	23	0		123	298
		11	39	0	74	0		59	172
		12	0	0	140	0		17	156
2014 Total			468	0	303	52	718	1541	
2015	2015	1	0	0		1	0	13	14
		2	0	0		9	0	4	13
		3	0	0		36	0	31	66
		4	0	0		10	0	7	16
		5	0	0		1	0	3	4
		6	4	0		0	0	31	35
		7	6	0		0	0	170	176
		8	58	9	13	0	0	128	208
		9	190	0	60	0	0	179	430
		10	206	0	48	0	0	160	414
		11	59	0	224	0	0	125	408
		12	1	0	0	0	0	15	16
2015 Total			525	9	346	56	864	1801	
2016	2016	1		0		1		9	9
		2		0		12		23	35
		3		0		31		48	79
		4		0		14		5	19
		5		0		1		3	3
		6	1	0		0		82	83
		7	9	0		0		193	202
		8	39	0		0		114	153
2016 Total			49	0	59	59	476	584	

Table 13. Quantity (t) of BFT caged by fishing and farming flag CPCs, between 2014 and 2016, as reported under Rec. [08-05] as of October 15, 2016.

Tableau 13. Volumes (t) de thon rouge mis en cages, par CPC de pavillon de pêche ou CPC de ferme, entre 2014 et 2016, tels que déclarés en vertu de la Rec. 08-05 au 15 octobre 2016.

Tabla 13. Cantidades (t) de atún rojo por CPC del pabellón pesquero o CPC de la granja introducido en jaulas entre 2014 y 2016 tal y como se declararon con arreglo a la Rec. 08-05 a 15 de octubre de 2016.

Caging Wgt (t)	Farming Flag	Farming Flag						Grand Total
		EU.Croatia	EU.España	EU.Malta	Maroc	Tunisie	Turkey	
2014	Albania			32				32
	Algerie			90			149	239
	EU.España		1707					1707
	EU.France		893	805				1698
	EU.Italy			1728				1728
	EU.Malta			50				50
	Korea Rep			81				81
	Libya			512			401	912
	Maroc					215		232
	Tunisie					925	118	1043
	Turkey						776	776
EU.Croatia	372						372	
2014 Total		372	2600	3297	215	1074	1312	8870
2015	Albania			39				39
	Algerie			368				368
	EU.España		2006					2006
	EU.France		1285	870				2155
	EU.Italy			1672				1672
	EU.Malta			177				177
	Libya			445			704	1149
	Maroc					400	184	584
	Tunisie			384			723	1244
	Turkey						137	1166
	EU.Croatia	436						436
Syrian Arab Republic						40	40	
Unknown/Unclassified flag			181		400		581	
2015 Total		436	3291	4137	800	723	2230	11617
2016	EU.España		234					234
	EU.France			894				894
	Libya			452			98	550
	Tunisie					470	162	631
	Turkey						1552	1552
	EU.Croatia	432						432
Syrian Arab Republic						47	47	
2016 Total		432	234	1346		470	1859	4341

Table 14a. Bi-annual Statistical Documents (SD) and Re-export Certificates (RC) reported to ICCAT, by species, between September 22, 2015 and October 15, 2016.

Tableau 14a. Documents statistiques (SD) et Certificats de réexportation (RC) semestriels déclarés à l'ICCAT, par espèce, entre le 22 octobre 2015 et le 15 octobre 2016.

Tabla 14a. Documentos estadísticos (DE) y Certificados de reexportación (CR) semestrales comunicados a ICCAT, por especies, entre el 22 de septiembre de 2015 y el 15 de octubre de 2016.

Reporting CPC	Year	Semester	Date reported	BET		SWO		* Other
				SD	RC	SD	RC	
Canada	2015	1	2015-09-28	√		√		
		2	2016-03-28	√		√		
	2016	1	2016-08-31	√		√		
China PR	2015	1	2015-09-28	√	√	√		
		2	2016-03-28	√	√	√		
	2016	1	2016-09-30	√	√	√		
Chinese Taipei	2015	1	2015-09-25	√	√	√		
		2	2016-03-30			√		
	2016	1	2016-09-23	√		√		
Côte D'Ivoire	2015	2	2016-03-31	√				
	2016	1	2016-10-14	√				
EU (all flags combined)	2015	1	2015-10-01	√	√	√	√	
		2	2016-03-29	√	√	√	√	
	2016	1	2016-10-07	√	√	√	√	
Japan	2015	1	2015-09-28	√	√	√	√	
		2	2016-03-29	√	√	√	√	
	2016	1	2016-09-27	√	√	√	√	
Korea Rep.	2015	1	2015-09-24	√	√	√	√	
		2	2016-03-30	√	√	√	√	
	2016	1	2016-10-03	√	√	√	√	
Norway	2015	1	2015-09-30	√		√		
		2	2016-03-30	√		√		
	2016	1	2016-09-24	√		√		
Senegal	2015	1	2015-10-09	√		√		
		2	2016-04-15					√
	2016	1	2016-09-28					√
Singapore	2015	1	2016-04-11			√	√	
		2	2016-05-04			√	√	
Trinidad and Tobago	2015	1	2015-10-01			√		
		2	2016-05-16			√		
Turkey	2015	1	2015-09-30	√		√		
		2	2016-04-08	√		√		
	2016	1	2016-09-21	√		√		
U.S.A.	2015	1	2015-09-22	√		√		√
	2015	2	2016-04-01	√		√		√
	2016	1	2016-09-29	√		√		√

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

Table 15. Amounts (t) of various tuna and tuna-like species transhipped at sea as reported under Rec. [06-11] by product type.
 Tableau 15. 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 15. 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			
2014	Chinese Taipei	ALB		3.11					11.46			14.57		
		BET		10808.93								10808.93		
		MIX		470.69								470.69		
		MLS		0.09								0.09		
		OTF				0.25						0.25		
		SWO	307.06	17.77		4.97					3.19	11.60	344.59	
		TUN		51.11									51.11	
	YFT		744.82									744.82		
	China, P.R.	ALB			7.72					23.85			31.56	
		BET			1960.22								1960.22	
		BIL	2.34	2.53									4.88	
		BSH	17.36	6.34									23.70	
		BUM	8.78										8.78	
		MAK	4.42	0.88									5.30	
		MIX		68.89									68.89	
		OIL	0.13	0.04					0.70				0.87	
		OTF	0.57						0.17		2.47		3.20	
		SAI	0.02										0.02	
		SMA	5.53										5.53	
		SSM	0.17										0.17	
		SWO	143.96	47.52									191.48	
		TUN		87.45						0.60			88.05	
		YFT		82.70									82.70	
	SKH	3.88										3.88		
	OPA	0.76	0.31									1.07		
	Korea, Republic of	BET			893.87								893.87	
		MIX			142.95								142.95	
		OTF									4.06		4.06	
		TUN			14.31							2.78	17.09	
		YFT			77.68								77.68	
	Philippines	ALB							1.00				1.00	
		BET			2375.16								2375.16	
		SWO	25.95	10.05									36.00	
		TUN		11.39									11.39	
		YFT		68.69									68.69	
	Japan	ALB			1.46				0.60	657.78			659.84	
		BET			8339.10		0.51					0.15	8339.76	
		BIL	2.23										2.23	
		BLM	5.57										5.57	
		BSH	66.52			0.79			1.51				68.81	
		BUK	95.60										95.60	
		BUM	64.72	22.60		1.10						1.68	90.10	
		COM	0.31										0.31	
		MIX		743.32		0.30						2.52	746.14	
		MLS	0.81	3.53									4.35	
		OTF	9.82			0.83	0.18			3.05		25.41	39.29	
		SAI	9.65										9.65	
		SBF		583.68									583.68	
		SKJ								0.57			0.57	
		SMA	0.77				0.60			0.02			1.38	
		SSM	1.69										1.69	
		SSP	0.52										0.52	
		SWO	453.00	65.20		#####		2.60		0.12			9.27	673.80
		TUN		131.43									4.87	136.30
		WAH	0.46										0.46	
	YFT		1613.91									1613.91		
	MAW	1.54										1.54		
	SKH	31.40							1.39			32.78		
	OPA	10.20							0.56		0.66	11.42		
	Belize	BET			105.65								105.65	
YFT				5.23								5.23		
2014 Total			1275.72	29570.34	0.83	#####	3.20	2.91	699.86	3.19	65.46	31773.81		
2015	Chinese Taipei	ALB		1.18					6.29			7.47		
		BET	40.36	12917.89								12958.25		
		BIL	4.05									4.05		
		BUM	0.42									0.42		
		OTF	3.62									3.62		
		SWO	221.55	16.32								237.87		
		TUN		16.66								16.66		
	YFT		631.66							1.04		632.70		
	China, P.R.	ALB								48.84			48.84	
		BET			4244.06				0.15				4244.21	
		BLM	0.73										0.73	
		BUM	14.87										14.87	
		OIL	1.15										1.15	
		OTF	0.44								15.00		15.44	
		PXX	1.37										1.37	
		SBF		3.47									3.47	
		SSM	0.11							0.39			0.50	
		SWO	146.70					3.02					149.73	
		TUN		17.26									17.26	
		YFT		165.86									165.86	
	SKH						0.68					0.68		
	OPA	1.33										1.33		
	YOU		0.01									0.01		
	Korea, Republic of	BET			493.10								493.10	
		TUN			3.44								3.44	
		YFT			16.67								16.67	
	Japan	ALB			6.51					1257.12			1263.63	
		BET	0.46	7241.85							0.84		7243.15	
		BIL	0.81	4.09									4.89	
		BLM	0.98	1.70									2.68	
BSH		47.13										47.13		
BUK		114.53										114.53		
BUM		143.01	34.92									180.35		
COM		1.45							0.67		2.42	2.12		

		MAK	2.97		2.15	0.03				5.16	
		MLS	0.11	2.21						2.33	
		OIL	8.52							8.52	
		OTF	15.82		3.80	0.09	0.17	33.10		52.97	
		PXX	1.58					1.11		2.69	
		SAI	8.29							8.29	
		SBF		1097.62						1097.62	
		SKJ					0.02			0.02	
		SMA	1.58		0.19					1.77	
		SSM	1.69							1.69	
		SSP	1.05							1.05	
		SWO	291.42		#####					432.10	
		TUN		41.80					1.62	43.42	
		WAH	0.25							0.25	
		WHM		0.23						0.23	
		YFT		2105.29				0.05		2105.34	
		MAW	0.24							0.24	
		SKH				2.08				2.08	
		OPA	25.67		0.46				0.21	26.33	
		BRA					1.36			1.36	
		YOU	0.05	0.79						0.84	
		DOL					0.20			0.20	
	Belize	BET		226.45						226.45	
		SWO	29.11							29.11	
		YFT		5.61						5.61	
	St. Vincent and Grenadines	BET		471.16						471.16	
		SWO	3.03							3.03	
		YFT		24.33						24.33	
2015 Total			1136.42	29792.14	#####	0.15	2.20	1315.06	3.04	52.35	32452.35
2016	Chinese Taipei	ALB						99.68			99.68
		BET		8139.37							8139.37
		BUM	0.92								0.92
		OIL	0.25								0.25
		SAI		0.45							0.45
		SSP	0.07								0.07
		SWO	135.79	6.41	0.35						142.56
		WAH	0.07								0.07
		YFT		466.03							466.03
	China, P.R.	ALB						36.38			36.38
		BET		3335.92		0.20					3336.13
		BUM	12.53								12.53
		OIL	2.44								2.44
		SAI	0.03								0.03
		SMA	1.80								1.80
		SSM	2.47								2.47
		SWO	397.38								397.38
		YFT		89.53							89.53
		OPA	1.43								1.43
	Korea, Republic of	ALB						2.24			2.24
		BET		246.59							246.59
		BSH						10.18			10.18
		BUK	35.20								35.20
		MAK	4.08								4.08
		MLS	0.03	0.23							0.26
		OIL	0.71								0.71
		OTF							1.50		1.50
		SAI	2.01								2.01
		SBF		93.50							93.50
		SKJ	0.75								0.75
		SPF	0.78								0.78
		SWO	3.96	0.27							4.22
		WAH	3.57								3.57
		YFT		186.95							186.95
		SKH					0.25				0.25
		OPA	0.10								0.10
		BRA						4.03			4.03
		DOL						2.51			2.51
	Japan	ALB	7.814	21.503				340.34349			369.66049
		BET		3870.208778							3870.208778
		BLM	3.051	0.056							3.107
		BUK	162.503		17.26						179.763
		BUM	53.258	23.350502							76.608502
		COM	3.613								3.613
		MLS	0.16	4.611							4.771
		OTF	1.193								1.193
		SAI	4.775								4.775
		SBF		801.656							801.656
		SKJ						0.151			0.151
		SMA			1.264						1.264
		SPF	0.224								0.224
		SSM	4.689								4.689
		SSP	3.29								3.29
		SWO	185.753296	0.03	76.19						261.97492
		TUN			1.26				1.525		2.785
		WAH	0.08								0.08
		YFT	4.749	1018.202156							1022.951156
		MAW	0.924								0.924
		SKH			3.37				0.114		3.484248
		OPA	11.2784		0.115						11.3934
		DOL	0.548					2.03			2.578
		BLZ	1.39								1.39
		SFA	0.33								0.33
	Belize	BET		197.583							197.583
		SWO	7.97								7.97
		YFT		6.806							6.806
	St. Vincent and Grenadines	BET		352.424584							352.424584
		SWO	14.014								14.014
		YFT		7.822802							7.822802
	Côte d'Ivoire	BET		172.395							172.395
		YFT		7.902							7.902
2016 Total			1077.969	19049.8	18.87	80.9	0.202	0.25	497.537	3.14	20728.714

Table 16. Volumes published in 2016 within the ICCAT series of periodic publications.

Tableau 16. Volumes publiés en 2016 dans les séries des publications périodiques de l'ICCAT.

Tabla 16. Volúmenes publicados en 2016 dentro de las series periódicas de publicaciones de ICCAT.

Publication			Period	Format			Content
Name	Vol #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	72	8	2015	√	√	√	Informes de las reuniones intersesiones y los documentos presentados a dichas reuniones
Informe Bienal	1		2015	√		√	Report of the 24 th Regular Commission meeting
	2		2015	√		√	Informe del SCRS
	3		2015			√	Informes anuales
	4		2015			√	Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al PWG)
Boletín estadístico	43(I)		1950-2014	√	√	√	Estadísticas ICCAT
Newsletter	23		Sept. 2015-Feb 2016			√	Noticias
	24		Feb.-Sept. 2016			√	

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 (1995 to 2015). 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 tonnes) 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"= CAS exists) that represents the Task-II data availability in the ICCAT-DB. See the legend for the colour scheme pattern definitions.

Appendice 1. Catalogues standards 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, pêcherie principale (combinaisons pavillon-engin classées par ordre d'importance) et année (1995 à 2015). Seules les pêcheries les plus importantes (représentant +/- 97,5% de la prise de Tâche I) sont présentées. Chaque série de données de la Tâche I (DSet= "t1", en tonnes) est représentée par rapport au schéma de disponibilité équivalent de la Tâche II (DSet= "t2"). Le schéma de couleurs de Tâche II présente une concaténation de caractères ("a"= T2CE existe; "b"= T2SZ existe; "c"= CAS 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 (1995 a 2015). 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"= CAS 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 #	Description
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	BSH-M region
24	POR-N region
25	POR-S region
26	SMA-N region
27	SMA-S region

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

character	represents
a	t2ce
b	t2sz
c	cas

color scheme

concatenated string	represents
-1	no T2 data
a	t2ce only
b	t2sz only
c	cas only
bc	t2sz + cas
ab	t2ce + t2sz
ac	t2ce + cas
abc	all

Table2. ALB-S stock

		T1 Total	27552	28426	28022	30595	27656	31387	38796	31746	28002	22543	18882	24453	20283	18867	22265	19225	24129	25061	19262	13677	15143							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
ALB	ATS	NCC	Chinese Taipei	LL	t1	18351	18956	18165	16106	17377	17221	15833	17321	17351	13288	10730	12293	13146	9966	8678	10975	13032	12813	8519	6675	7157	1	55.0%	55%	
ALB	ATS	NCC	Chinese Taipei	LL	t2	ab	ab	ac	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	1			
ALB	ATS	CP	South Africa	BB	t1	5204	5425	6581	8401	5010	3463	6715	6057	3323	4153	2856	3365	2024	2334	2967	2446	2029	3466	3395	3620	3898	2	16.8%	72%	
ALB	ATS	CP	South Africa	BB	t2	ab	ab	ab	b	ab	abc	ab	abc	abc	abc	ab	ab	ab	a	a	a	ab	ab	ab	ab	-1	2			
ALB	ATS	CP	Namibia	BB	t1	950	982	1192	1422	1072	2240	2969	2858	2432	3079	2031	2426	1058	1856	4936	1263	3711	2275	838	1016	1008	3	8.1%	80%	
ALB	ATS	CP	Namibia	BB	t2	abc	-1	-1	-1	abc	c	ab	ac	-1	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	ab	3			
ALB	ATS	CP	Brazil	LL	t1	723	807	589	3013	1478	3758	6240	2865	1844	285	359	267	222	233	150	207	920	824	753	326	299	4	5.1%	85%	
ALB	ATS	CP	Brazil	LL	t2	ab	a	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	4			
ALB	ATS	CP	Japan	LL	t1	389	435	424	418	601	554	341	231	322	509	312	316	238	1370	921	973	1194	2903	3106	1129	1761	5	3.6%	89%	
ALB	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	5			
ALB	ATS	CP	EU.España	LL	t1	202	180	190	20	871	282	573	829	183	81	261	358	758	908	997	266	250	235	369	256	354	6	1.6%	90%	
ALB	ATS	CP	EU.España	LL	t2	ab	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	6		
ALB	ATS	CP	South Africa	RR	t1									82	201	288	324	1696	1028	1855	1529	1268				7	1.6%	92%		
ALB	ATS	CP	South Africa	RR	t2	a								-1	-1	a	a	a	a	-1	-1	-1				7				
ALB	ATS	CP	St. Vincent and Grenadines	LL	t1					2116	4292	44					65	160	71	51	31	94	92	97	110	100	8	1.4%	93%	
ALB	ATS	CP	St. Vincent and Grenadines	LL	t2					-1	-1	a		a		a	a	a	a	a	a	a	-1	ab	a	ab	8			
ALB	ATS	CP	Brazil	BB	t1	200	12	63	405	394	627	619	363	803	235	197	85	293	156	18	34	198	969	179	105	60	9	1.2%	94%	
ALB	ATS	CP	Brazil	BB	t2	a	a	a	a	a	-1	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	a	9			
ALB	ATS	CP	Namibia	LL	t1			7	7	90	178	450	105	721	250	313	2674	138	102	0	57	80	145	10	41	54	10	1.1%	95%	
ALB	ATS	CP	Namibia	LL	t2			-1	-1	a	-1	ab	ac	-1	ab	ab	ab	ab	a	ab	ab	abc	a	ab	a	a	10			
ALB	ATS	CP	EU.Portugal	BB	t1	655	494	256	124	232	486	40	433	415	9												11	0.6%	96%	
ALB	ATS	CP	EU.Portugal	BB	t2	-1	-1	-1	-1	-1	-1	a	a	a	a												11			
ALB	ATS	CP	Vanuatu	LL	t1										0	684	1400	96	131	64	104	85	35	83	91	12	0.5%	97%		
ALB	ATS	CP	Vanuatu	LL	t2										a	a	a	-1	-1	-1	a	ab	ab	a	a	12				
ALB	ATS	CP	EU.France	PS	t1	82	190	38	40	13	23	11	18	63	16	478	347	12	50	60	109	53	161	73	38	53	13	0.4%	97%	
ALB	ATS	CP	EU.France	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	13		
ALB	ATS	CP	Uruguay	LL	t1	49	75	56	110	90	90	135	111	108	120	32	93	34	53	97	24	37	12	209		14	0.3%	97%		
ALB	ATS	CP	Uruguay	LL	t2	-1	-1	-1	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab			14			
ALB	ATS	CP	South Africa	LL	t1				11	18	89	144	127	64	52	55	46	78	107	125	83	82	86	115	99	132	15	0.3%	98%	
ALB	ATS	CP	South Africa	LL	t2				a	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	15			
ALB	ATS	CP	Belize	LL	t1	2				8	2						54	32	31	213	303	335	171	87	98	16	0.3%	98%		
ALB	ATS	CP	Belize	LL	t2	a	a			-1	a					a	a	a	ab	ab	ab	ab	a	a		16				
ALB	ATS	CP	EU.España	PS	t1	255	4	66	173	156	7		7	193		24	9		25	64	28	64	116		3	64	17	0.2%	98%	
ALB	ATS	CP	EU.España	PS	t2	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	b	ac	ac	17		
ALB	ATS	CP	South Africa	SP	t1	10	209	127		73	58	377	323														18	0.2%	98%	
ALB	ATS	CP	South Africa	SP	t2	-1	-1	a		-1	-1	-1	-1														18			
ALB	ATS	CP	China PR	LL	t1					39	89	26	30	26	112	95	100	35	25	89	97	80	61	65	34	120	19	0.2%	98%	
ALB	ATS	CP	China PR	LL	t2					a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	abc	ab	19		

Table3. ALB-M stock

		T1 Total	1587	3150	2541	2698	4856	5577	4870	5608	7897	4874	3529	5965	6567	2970	4021	2124	4621	2047	1503	2400	2718							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
ALB	MED	CP	EU.Italy	LL	t1	81	366	172	172	307	2712	2445	3631	3786	1555	1189	1995	2739	2083	919	1109	1625	1117	605	1342	1356	1	38.1%	38%	
ALB	MED	CP	EU.Italy	LL	t2	-1	-1	-1	-1	-1	ab	b	-1	b	b	b	b	b	bc	abc	abc	abc	abc	abc	abc	abc	abc	1		
ALB	MED	CP	EU.Italy	GN	t1	1027	1383	1222	1222	2254	916	379	397					2589	1220							0	2	15.4%	53%	
ALB	MED	CP	EU.Italy	GN	t2	-1	-1	-1	-1	-1	ab	b	-1	b		b	-1	-1								-1	2			
ALB	MED	CP	EU.Greece	UN	t1		952	741	1152	1950	1735	1786	1304														3	11.7%	65%	
ALB	MED	CP	EU.Greece	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1														3			
ALB	MED	CP	EU.Italy	UN	t1	1					2	2	4	3125	2115	1057			0	1780		837		0	4	201	4	11.1%	76%	
ALB	MED	CP	EU.Italy	UN	t2	-1					-1	-1	-1	b	-1	b	b		-1	-1		-1		-1	-1	-1	4			
ALB	MED	CP	EU.Cyprus	LL	t1									17	243	337	451	695	204	220	206	247	321	357	385	505	5	5.1%	81%	
ALB	MED	CP	EU.Cyprus	LL	t2						a	a	a	a	ab	abc	abc	abc	abc	abc	abc	ab	a	abc	abc		5			
ALB	MED	CP	EU.España	LL	t1	6	25	176	22	74	51	112	37	1	109	148	322	421	208	204	277	338	385	238	270	52	6	4.2%	86%	
ALB	MED	CP	EU.España	LL	t2	ab	ab	ab	ac	ac	ab	ac	ac	-1	-1	a	a	a	abc	abc	abc	a	abc	ab	abc	abc	6			
ALB	MED	CP	EU.Greece	LL	t1					35	33	40	36	445	427	323	242	257	191	116	125	126	126	165	287	485	7	4.2%	90%	
ALB	MED	CP	EU.Greece	LL	t2					-1	-1	-1	-1	a	a	ab	ab	-1	a	a	-1	-1	-1	b	b	a	7			
ALB	MED	CP	Turkey	GN	t1														208	631	402	1396					8	3.2%	93%	
ALB	MED	CP	Turkey	GN	t2														a	a	ab	ab					8			
ALB	MED	CP	EU.Greece	PS	t1									478	326	287	141	123									9	1.6%	95%	
ALB	MED	CP	EU.Greece	PS	t2									-1	-1	-1	-1	-1									9			
ALB	MED	CP	Turkey	PS	t1									27	30	73	852						62	71			10	1.4%	96%	
ALB	MED	CP	Turkey	PS	t2									-1	-1	-1	-1						-1	-1			10			
ALB	MED	CP	EU.España	TR	t1	306	119	202	45	73			117														11	1.1%	97%	
ALB	MED	CP	EU.España	TR	t2	abc	abc	abc	abc	abc			abc									a			a		11			
ALB	MED	CP	EU.España	BB	t1	163	205		33	96	88	77	29			0		0									12	0.8%	98%	
ALB	MED	CP	EU.España	BB	t2	ac	ac		ac	ac	a	-1	ac			-1	a								a		12			
ALB	MED	CP	EU.España	SU	t1		80	2	24	41	5	12	26		29	40	60	94	31	0		6	3	6	8	0	13	0.6%	99%	
ALB	MED	CP	EU.España	SU	t2	a	a	a	a	a	a	a			-1	-1	a	a	a	a		a	a	a	a	a	13			
ALB	MED	CP	EU.Greece	HL	t1					20	18	14	12	27	20	13	18	68									14	0.3%	99%	
ALB	MED	CP	EU.Greece	HL	t2					-1	-1	-1	-1	a	-1	-1	-1	-1									14			
ALB	MED	CP	EU.Malta	LL	t1											16	1	4	1	2	5	14	29	59	37	15	0.2%	99%		
ALB	MED	CP	EU.Malta	LL	t2					a	a				a	-1	-1	-1	a	a	a	a	a	a	a		15			
ALB	MED	CP	EU.Italy	PS	t1											58	15	25			32		10	7	10		16	0.2%	99%	
ALB	MED	CP	EU.Italy	PS	t2										b	-1	-1	-1			-1		-1	-1	-1		16			
ALB	MED	CP	Maroc	LL	t1															120							17	0.1%	99%	
ALB	MED	CP	Maroc	LL	t2															-1							17			

Table4. BFT-E stock (ATE region)

		T1 Total	9646	12674	16856	11739	9596	10547	10086	10347	7362	7410	9036	7535	8037	7645	6684	4313	3984	3834	4163	3918	4841							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
BFT	ATE	CP	Japan	LL	t1	3971	3341	2905	3195	2690	2895	2425	2536	2695	2015	2598	1896	1612	2351	1904	1155	1089	1093	1129	1134	1386	1	27.0%	27%	
BFT	ATE	CP	Japan	LL	t2	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1		
BFT	ATE	CP	EU.España	BB	t1	2878	4979	6634	2605	1278	1939	2168	2410	1239	1735	2012	1065	1903	1727	1197	562	562	197	163	92	130	2	22.0%	49%	
BFT	ATE	CP	EU.España	BB	t2	abc	abc	abc	abc	abc	abc	abc	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
BFT	ATE	CP	Maroc	TP	t1	210	699	1240	1615	852	1540	2330	1670	1305	1098	1518	1744	2417	1947	1909	1348	1055	990	960	959	1176	3	16.8%	66%	
BFT	ATE	CP	Maroc	TP	t2	-1	-1	-1	-1	a	a	a	-1	-1	-1	-1	bc	abc	ab	abc	abc	abc	abc	abc	abc	abc	3			
BFT	ATE	CP	EU.España	TP	t1	941	1207	2723	1525	2005	1416	1240	1548	750	862	880	820	1348	1194	1209	902	902	1106	1370	1173	1466	4	15.6%	81%	
BFT	ATE	CP	EU.España	TP	t2	ab	ab	ab	ac	ac	ab	ac	ac	c	c	abc	b	a	abc	abc	abc	abc	abc	abc	ab	abc	4			
BFT	ATE	CP	Maroc	PS	t1	458	323	828	692	709	660	150	884	490	855	871	179										5	4.2%	86%	
BFT	ATE	CP	Maroc	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										5			
BFT	ATE	CP	EU.France	TW	t1	400		57	259	247	394	456	599	518	26		731	501	180	295	122	28	36	120	118	166	6	3.1%	89%	
BFT	ATE	CP	EU.France	TW	t2	-1		-1	-1	-1	-1	-1	-1	-1	-1		-1	abc	abc	ab	ab	abc	abc	ab	ab	b	6			
BFT	ATE	CP	EU.France	BB	t1	181	310	134	282	270	91	105	150	130	47		50	128	67	62	83	74	85	74	2	42	7	1.4%	90%	
BFT	ATE	CP	EU.France	BB	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		-1	a	a	a	a	a	a	ab	ab	b	7			
BFT	ATE	CP	Libya	LL	t1		576	477	511	450							47										8	1.2%	91%	
BFT	ATE	CP	Libya	LL	t2		-1	-1	-1	-1							-1										8			
BFT	ATE	CP	EU.Portugal	LL	t1		97	246	18	404	398	383	160	33	1	63	71	6	12	5			8	0		0	9	1.1%	92%	
BFT	ATE	CP	EU.Portugal	LL	t2		-1	a	a	-1	-1	a	a	a	a	ab	a	a	a	a	a		a	a		ab	9			
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	10	0.9%	93%	
BFT	ATE	CP	EU.Portugal	TP	t2	-1	a	a	a	ab	ab	ab	ab	ab	b	b	b	b	b	b	ab	ab	b	ab	ab	ab	10			
BFT	ATE	NCC	Chinese Taipei	LL	t1	4	61	226	350	222	144	304	158			10	4										11	0.9%	94%	
BFT	ATE	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab			ab	ab							a	a	a	11			
BFT	ATE	CP	EU.France	UN	t1			75								263	818	189		5		19				12	0.8%	95%		
BFT	ATE	CP	EU.France	UN	t2			-1								-1	-1	-1		-1		-1	a			12				
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	13	0.6%	96%
BFT	ATE	CP	China PR	LL	t2				-1	a	a	a	a	a	a	a	a	ab	a	a	a	a	ab	a	a	abc	ab	13		
BFT	ATE	CP	EU.España	HL	t1			162	28	33	126	61	63	109	87	11	4	10	6	2	19	19	25	21	16	59	14	0.5%	96%	
BFT	ATE	CP	EU.España	HL	t2			ab	ac	ac	ab	ac	ac	c	c	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	14		
BFT	ATE	CP	EU.Portugal	BB	t1	34	80	447	252	5	2	2	7	1	8	6	0	1									15	0.5%	97%	
BFT	ATE	CP	EU.Portugal	BB	t2	ab	abc	abc	ab	ab	a	a	a	ab	abc	ab	a	a			a					a	15			
BFT	ATE	CP	Panama	LL	t1	19	550	255		1																	16	0.5%	97%	
BFT	ATE	CP	Panama	LL	t2	-1	-1	-1	a	a																	16			
BFT	ATE	CP	EU.España	TR	t1							151	68	39	112	195	125	0	1								17	0.4%	97%	
BFT	ATE	CP	EU.España	TR	t2	bc	bc	bc	bc	bc	bc	bc	bc	c	c	bc	abc	abc	abc								17			
BFT	ATE	CP	EU.France	GN	t1	144	253	3	72	71	57	68	6														18	0.4%	98%	
BFT	ATE	CP	EU.France	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1														18			
BFT	ATE	NCO	NEI (Flag related)	LL	t1	189	71	208	66																		19	0.3%	98%	
BFT	ATE	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1																		19			
BFT	ATE	CP	Korea Rep.	LL	t1	205	92	203			6	1			0	3											20	0.3%	98%	
BFT	ATE	CP	Korea Rep.	LL	t2	-1	a	a			a	a			a	a											20			

Table6. BFT-W stock

		T1 Total	2425	2514	2334	2657	2772	2775	2784	3319	2305	2125	1756	1811	1638	2000	1980	1857	2007	1754	1482	1626	1839							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
BFT	ATW	CP	U.S.A.	RR	t1	844	840	931	777	760	683	1244	1523	991	716	425	376	634	658	860	682	592	568	365	478	694	1	34.2%	34%	
BFT	ATW	CP	U.S.A.	RR	t2	ab	b	ab	ab	ab	ab	abc	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1		
BFT	ATW	CP	Japan	LL	t1	387	436	330	691	365	492	506	575	57	470	265	376	277	492	162	353	578	289	317	302	347	2	17.6%	52%	
BFT	ATW	CP	Japan	LL	t2	ab	ab	ab	ab	ab	ab	a	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2		
BFT	ATW	CP	Canada	RR	t1	195	155	245	303	348	433	402	508	407	421	497	629	389	471	390	324	294	347	325	331	389	3	17.1%	69%	
BFT	ATW	CP	Canada	RR	t2	ab	ab	ab	ab	b	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3		
BFT	ATW	CP	U.S.A.	LL	t1	211	235	191	156	222	242	130	224	299	275	211	205	173	233	335	239	241	295	208	222	86	4	10.1%	79%	
BFT	ATW	CP	U.S.A.	LL	t2	ab	ab	ab	ab	ab	ab	ab	b	abc	abc	ab	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	4		
BFT	ATW	CP	U.S.A.	PS	t1	249	245	250	249	248	275	196	208	265	32	178	4	28			11			2	43	42	39	5	5.6%	85%
BFT	ATW	CP	U.S.A.	PS	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	b	b	c	bc			bc			bc	bc	bc	bc	5		
BFT	ATW	CP	Canada	TL	t1	262	298	138	172	125	81	79	39	42	49	44	35	23	24	37	40	30	34	52	40	35	6	3.7%	88%	
BFT	ATW	CP	Canada	TL	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	6		
BFT	ATW	CP	U.S.A.	HP	t1	77	96	98	133	116	184	102	55	88	41	32	30	23	30	66	29	70	52	45	68	77	7	3.3%	92%	
BFT	ATW	CP	U.S.A.	HP	t2	b	b	b	b	b	b	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	7		
BFT	ATW	CP	Canada	LL	t1	4	22	12	32	31	47	20	53	28	43	36	48	58	30	64	89	112	65	67	61	74	8	2.2%	94%	
BFT	ATW	CP	Canada	LL	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	8		
BFT	ATW	NCO	NEI (Flag related)	LL	t1		2				429	270	49													9	1.6%	95%		
BFT	ATW	NCO	NEI (Flag related)	LL	t2		-1				-1	-1	-1													9				
BFT	ATW	CP	Canada	TP	t1	72	90	59	68	44	16	16	28	84	32	8	3	4	23	23	39	26	17	11	20	6	10	1.5%	97%	
BFT	ATW	CP	Canada	TP	t2	ab	ab	ab	ab	ab	abc	abc	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	10		
BFT	ATW	CP	Canada	HP	t1	43	32	55	36	38	18	20	13	10	7	14	20	17	24	18	37	30	31	25	11	26	11	1.1%	98%	
BFT	ATW	CP	Canada	HP	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	11		
BFT	ATW	CP	Mexico	LL	t1		19	2	8	14	29	10	12	22	9	10	14	7	7	10	14	14	52	23	51	53	12	0.8%	99%	
BFT	ATW	CP	Mexico	LL	t2	b	ab	ab	ab	ab	ab	bc	b	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	12		
BFT	ATW	CP	U.S.A.	HL	t1	66	33	17	29	15	3	9	4			1	2	0		1	0	3	1	1	0		13	0.4%	99%	
BFT	ATW	CP	U.S.A.	HL	t2	b	b	b	b	b	b	b	b	b	b	b	c			c	bc	bc	bc	bc	bc	bc	13			

Table10. SKJ-E stock

		T1 Total	152669	129554	117243	132365	153331	126477	132169	100924	130734	154243	143566	113279	127137	124611	138985	170125	191117	220334	220693	204447	209822								
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum		
SKJ	ATE	CP	EU.España	PS	t1	48733	33947	33428	29976	42714	37145	27798	21596	39396	33421	18718	14975	17675	27918	30041	34175	46823	48185	57594	43139	38754	1	22.7%	23%		
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	ac	1			
SKJ	ATE	CP	Ghana	PS	t1		4090	6049	15945	20890	12061	11011	19054	14883	11879	28167	12680	29443	25128	25891	37455	31759	39181	33936	37868	47500	2	14.6%	37%		
SKJ	ATE	CP	Ghana	PS	t2		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	ac	ac	ac	a	a	a	2				
SKJ	ATE	CP	Ghana	BB	t1	18607	20115	20315	25895	31134	22919	44464	18516	18094	34151	26042	20932	17195	14433	19182	14596	17112	16953	11300	11393	13562	3	13.7%	51%		
SKJ	ATE	CP	Ghana	BB	t2	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	ac	ac	ac	a	a	a		3				
SKJ	ATE	CP	EU.France	PS	t1	28059	23856	16736	17850	22317	21426	15829	15899	21505	23224	13523	5770	3580	3948	7722	14582	13569	13395	16022	17085	20253	4	10.5%	62%		
SKJ	ATE	CP	EU.France	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	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	19661	5	6.1%	68%		
SKJ	ATE	CP	Curaçao	PS	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ac	ac	ac	ac	ac	ac	ac	ac	ac	a	5			
SKJ	ATE	CP	Panama	PS	t1	14853	5855	1300	572	1117	1374	281	342		7126	12286	14016	19798	8946	9199	9944	13119	11211	15520	14565	8532	6	5.3%	73%		
SKJ	ATE	CP	Panama	PS	t2	-1	-1	-1	-1	a	a	-1	-1		a	a	a	ac	ac	ac	ac	ac	ac	ac	ac	ac	-1	6			
SKJ	ATE	CP	EU.España	BB	t1	5760	5044	7075	8593	5607	3780	3156	3836	7174	7207	10119	7633	6378	8345	8647	8405	11674	19445	10185	9951	7269	7	5.2%	78%		
SKJ	ATE	CP	EU.España	BB	t2	ac	ac	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	7			
SKJ	ATE	CP	EU.Portugal	BB	t1	4986	8276	4395	4519	1800	1285	2135	2940	4276	8459	4687	11001	8604	5734	904	12859	4078	2758	4039	1703	1296	8	3.2%	81%		
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	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	9	3.1%	84%		
SKJ	ATE	CP	Cape Verde	PS	t2		a	a	a	a		a	a	a	ab	ab	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	9				
SKJ	ATE	NCO	NEI (ETRO)	PS	t1	15964	16050	5658	5741	7675	5245	5679	6202	7654	9558	2772											10	2.8%	87%		
SKJ	ATE	NCO	NEI (ETRO)	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	ab	ab	ab	ab	b	b	b	b		10			
SKJ	ATE	CP	Belize	PS	t1															1488	3109	7797	15733	6854	11080	12599	11	1.8%	89%		
SKJ	ATE	CP	Belize	PS	t2															ac	a	a	a	a	a	a	11				
SKJ	ATE	CP	Guatemala	PS	t1												6649	5028	5612	6481	4095	3087	2880	3732	4979	5904	7078	12	1.7%	91%	
SKJ	ATE	CP	Guatemala	PS	t2												a	a	ac	ac	ac	ac	ac	ac	ac	ac	12				
SKJ	ATE	CP	Senegal	BB	t1	18	163	455	1679	1479	1506	1271	1060	733	1385	4874	3534	2278	3661	4513	2411	4765	4276	4014	3252	1895	13	1.5%	92%		
SKJ	ATE	CP	Senegal	BB	t2	a	ac	-1	-1	-1	-1	a	-1	-1	-1	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	13				
SKJ	ATE	CP	EU.France	BB	t1	2697	1698	3701	4179	2343	1497	2550	2305	1878	1752	2240	1610	795	778	1186	904	932	1382	682	750	939	14	1.2%	93%		
SKJ	ATE	CP	EU.France	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	14			
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t1	4543	1316	2345	1508	1119	2194	218	65	1547	2953	1708	1478	3003	2998	2624	3427	2372					15	1.1%	95%		
SKJ	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	15				
SKJ	ATE	CP	Guinée Rep.	PS	t1												387	330	118	359	2114	3252	10321	9033	7629	16	1.1%	96%			
SKJ	ATE	CP	Guinée Rep.	PS	t2												-1	-1	-1	-1	-1	a	ac	ac	ac	16					
SKJ	ATE	CP	Côte d'Ivoire	GN	t1						1173	259	292	143	559	1259	1565	1817	2328	2840	2840	3883	4926	5188	311	254	17	0.9%	96%		
SKJ	ATE	CP	Côte d'Ivoire	GN	t2						-1	-1	-1	-1	-1	-1	-1	a	-1	-1	-1	-1	a	a	ab	a	17				
SKJ	ATE	CP	Maroc	PS	t1	4878	553	4449	1861	715	180	99	126	410	442	888	536	131	108	654	892	1061	1076	1121	583	92	18	0.7%	97%		
SKJ	ATE	CP	Maroc	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18				
SKJ	ATE	CP	Côte d'Ivoire	PS	t1																	2128	6559	3418	2256	19	0.4%	98%			
SKJ	ATE	CP	Côte d'Ivoire	PS	t2																a	a	a	ac		19					
SKJ	ATE	CP	Maroc	HL	t1												283	586	3318	1393	1148	1880	1444	1090	1191	924	485	484	20	0.4%	98%
SKJ	ATE	CP	Maroc	HL	t2												-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20				
SKJ	ATE	NCO	NEI (ETRO)	BB	t1	271	161	503	1008	1217	1883	2443	2342	2034	1517	101											21	0.4%	98%		
SKJ	ATE	NCO	NEI (ETRO)	BB	t2	ac	ac	ac	ac	abc	abc	abc	abc	abc	abc	abc						c					21				

Table11. SKJ-W stock

			T1 Total	21860	27562	31712	29087	27356	29193	31451	21600	24749	27461	28517	26453	25443	22022	25774	23000	32383	32857	35037	26727	19929						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SKJ	ATW	CP	Brazil	BB	t1	16530	22517	25573	23567	22948	24691	24038	18185	20416	23036	25269	23012	22750	20547	22329	19747	29322	30569	32337	24787	17499	1	85.9%	86%	
SKJ	ATW	CP	Brazil	BB	t2	ab	a	ab	a	a	-1	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	1			
SKJ	ATW	CP	Venezuela	PS	t1	2059	3348	3604	3607	2696	2590	5189	2000	2296	2769	848	1806	806	688	1808	1931	1308	1573	908	1081	1974	2	7.9%	94%	
SKJ	ATW	CP	Venezuela	PS	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2			
SKJ	ATW	NCO	Cuba	BB	t1	886	1000	1000	651	651	651			624	545	514	536										3	1.2%	95%	
SKJ	ATW	NCO	Cuba	BB	t2	-1	-1	-1	-1	-1	-1		b	-1	-1	-1	-1										3			
SKJ	ATW	CP	Venezuela	BB	t1	328	224	224	506	282	299	1104	552	950	501	245	201	115	69	441	177	146	124	60	27	39	4	1.2%	96%	
SKJ	ATW	CP	Venezuela	BB	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4			
SKJ	ATW	CP	Brazil	PS	t1			743	219	240	473	108	116				1119	239	403	213	223	552	9			5	0.8%	97%		
SKJ	ATW	CP	Brazil	PS	t2			-1	-1	a	-1	-1	-1		a	a	a	a	a	a	-1	-1				5				
SKJ	ATW	CP	Brazil	UN	t1			3								17	1033	85	748	843	311	6				6	0.5%	98%		
SKJ	ATW	CP	Brazil	UN	t2			-1							b	-1	-1	-1	-1	-1	-1	-1	-1			6				
SKJ	ATW	NCO	Sta. Lucia	TR	t1									132	137	159	120	89	168		153	143	109	171	139	87	7	0.3%	98%	
SKJ	ATW	NCO	Sta. Lucia	TR	t2									-1	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1	7			
SKJ	ATW	NCO	Colombia	UN	t1	1583																					8	0.3%	98%	
SKJ	ATW	NCO	Colombia	UN	t2	-1																					8			
SKJ	ATW	CP	U.S.A.	RR	t1	21	82	64	86	99	30	49	70	61	74	15	49	52	49	102	45	77	104	115	65	76	9	0.2%	98%	
SKJ	ATW	CP	U.S.A.	RR	t2	ab	b	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	ab	abc	ab	ab	ab	ab	ab	ab	9		
SKJ	ATW	CP	Panama	LL	t1																			543	410		10	0.2%	98%	
SKJ	ATW	CP	Panama	LL	t2																		a	a		10				
SKJ	ATW	CP	St. Vincent and Grenadines	TR	t1								58	90	85	85	147	88	83	52	44	50		36	39	46	11	0.2%	99%	
SKJ	ATW	CP	St. Vincent and Grenadines	TR	t2								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	11			
SKJ	ATW	CP	St. Vincent and Grenadines	LL	t1								206	2	166	166	208	2		2	2		0	0	0	1	12	0.1%	99%	
SKJ	ATW	CP	St. Vincent and Grenadines	LL	t2							a	a	a	a	-1	a	a		a	a		-1	a	a	a	12			
SKJ	ATW	CP	Brazil	HL	t1		0										5		4		152	201	177	47		13	0.1%	99%		
SKJ	ATW	CP	Brazil	HL	t2		-1										-1		-1	a	-1	-1	-1	-1	a		13			

Table12. SWO-N stock

		T1 Total	16872	15222	13025	12223	11622	11453	10011	9654	11442	12175	12480	11473	12302	11050	12081	11553	12523	13875	12069	11216	11108							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SWO	ATN	CP	EU.España	LL	t1	6948	5519	5133	4079	3993	4581	3967	3954	4585	5373	5511	5446	5564	4366	4949	4147	4885	5620	4082	3750	4013	1	39.3%	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	ac	ac	ac	ac	1			
SWO	ATN	CP	U.S.A.	LL	t1	4452	4015	3399	3433	3364	3316	2498	2598	2757	2591	2273	1961	2474	2405	2691	2204	2572	3347	2812	1816	1596	2	22.9%	62%	
SWO	ATN	CP	U.S.A.	LL	t2	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
SWO	ATN	CP	Canada	LL	t1	1421	646	1005	927	1136	923	984	954	1216	1161	1470	1238	1142	1115	1061	1182	1351	1502	1290	1383	1489	3	9.6%	72%	
SWO	ATN	CP	Canada	LL	t2	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3			
SWO	ATN	CP	EU.Portugal	LL	t1	1593	1702	902	772	776	731	731	765	1032	1319	900	949	778	747	898	1054	1202	841	1372	1189	1387	4	8.5%	80%	
SWO	ATN	CP	EU.Portugal	LL	t2	ab	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4			
SWO	ATN	CP	Japan	LL	t1	1043	1494	1218	1391	1089	759	567	319	263	575	705	656	889	935	778	1062	523	639	300	1091	872	5	6.7%	87%	
SWO	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	bc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	5			
SWO	ATN	CP	Maroc	LL	t1	28	35	239		35	38	264	154	223	255	325	333	229	428	720	963	700	700	1000	1000	800	6	3.3%	90%	
SWO	ATN	CP	Maroc	LL	t2	-1	-1	-1		-1	-1	-1	-1	bc	abc	abc	abc	abc	abc	bc	abc	a	a	abc	bc	abc	6			
SWO	ATN	NCC	Chinese Taipei	LL	t1	489	521	509	286	285	347	299	310	257	30	140	172	103	82	89	88	192	193	115	78	115	7	1.8%	92%	
SWO	ATN	NCC	Chinese Taipei	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7			
SWO	ATN	CP	Canada	HP	t1	189	93	89	240	18	95	121	38	147	87	193	203	267	258	248	176	208	97	275	233	98	8	1.3%	94%	
SWO	ATN	CP	Canada	HP	t2	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	8			
SWO	ATN	CP	China PR	LL	t1	104	132	40	337	304	22	102	90	316	56	108	72	85	92	92	73	75	59	96	60	141	9	1.0%	95%	
SWO	ATN	CP	China PR	LL	t2	-1	-1	-1	a	a	a	a	a	a	a	a	ab	a	ab	ab	ab	ab	ab	ab	a	ab	9			
SWO	ATN	CP	Trinidad and Tobago	LL	t1	150	158	110	130	138	41	75	92	78	83	91	19	29	48	30	21	16	14	16	16	26	10	0.5%	95%	
SWO	ATN	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	ab	10			
SWO	ATN	CP	Maroc	GN	t1	32	322	13	179	60	51	243	64	98	76	9							80			11	0.5%	96%		
SWO	ATN	CP	Maroc	GN	t2	-1	-1	-1	c	ac	ac	ac	ac	-1	b	b	b						-1			11				
SWO	ATN	CP	U.S.A.	HL	t1		0	1		5	9	9	12	21	23	35	33	125	94	125	129	121	155	105	88	77	12	0.5%	96%	
SWO	ATN	CP	U.S.A.	HL	t2		-1	b	b	c	bc	bc	c	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	12			
SWO	ATN	CP	Korea Rep.	LL	t1	16	19	15								51	65	175	157	3		170	46	83	35	2	13	0.3%	96%	
SWO	ATN	CP	Korea Rep.	LL	t2	a	a	a			a				a	a	a	a	a			-1	-1	abc	abc	b	13			
SWO	ATN	CP	Belize	LL	t1											9	1	112	106	184	141	142	76		8	14	0.3%	97%		
SWO	ATN	CP	Belize	LL	t2											a	a	ab	ab	ab	ab	a	a	ab	ab	14				
SWO	ATN	CP	U.S.A.	RR	t1		6	11	5	21	16	2	22	6	25	61	53	68	76	32	49	54	71	22	35	46	15	0.3%	97%	
SWO	ATN	CP	U.S.A.	RR	t2	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	abc	abc	abc	abc	abc	15			
SWO	ATN	CP	EU.France	UN	t1	38	97	164							32	102	178	0	46	14	3	1	0	1	3	16	0.3%	97%		
SWO	ATN	CP	EU.France	UN	t2	-1	-1	-1							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	16			
SWO	ATN	CP	Mexico	LL	t1		22	14	28	24	37	27	34	32	44	41	31	35	34	32	35	38	41	33	32	31	17	0.3%	97%	
SWO	ATN	CP	Mexico	LL	t2	a	a	a	a	a	c		-1	a	a	a	a	a	a	a	a	a	a	a	a	a	17			
SWO	ATN	CP	EU.France	TW	t1	13					60	74	138				91			12	32	15	13	35	25	63	18	0.2%	98%	
SWO	ATN	CP	EU.France	TW	t2	-1					-1		-1	-1			-1			-1	-1	-1	-1	-1	-1	ab	-1	18		
SWO	ATN	CP	Venezuela	LL	t1	45	74	11	7	9	30	12	25	29	46	48	15	19		5	8	16	13	18	20	18	29	19	0.2%	98%
SWO	ATN	CP	Venezuela	LL	t2	b	b	b	b	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	19			
SWO	ATN	CP	Barbados	LL	t1		33	16	16	12	13	19	10	19	24	39	34	23	36	17	13	23	15	16	20	29	20	0.2%	98%	
SWO	ATN	CP	Barbados	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	20			

Table13. SWO-S stock

				T1 Total	21930	18289	18542	14027	15502	15728	15128	14104	12633	13077	13162	14245	15630	12546	12679	12655	11455	10679	8212	10885	10937							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum			
SWO	ATS	CP	EU.España	LL	t1	11290	9622	8461	5832	5758	6388	5789	5741	4527	5483	5402	5300	5283	4073	5183	5801	4700	4852	4184	4113	5059	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	ac	ac	ac	ac	1					
SWO	ATS	CP	Brazil	LL	t1	1970	1892	4100	3844	4721	4579	4075	2903	2917	2914	3780	4120	3892	3152	3132	2657	2800	2831	1312	2890	2567	2	23.0%	65%			
SWO	ATS	CP	Brazil	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	2						
SWO	ATS	CP	Japan	LL	t1	3619	2197	1494	1186	775	790	685	833	924	686	480	1090	2155	1600	1340	1314	1233	1162	684	1949	1321	3	9.4%	74%			
SWO	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	3					
SWO	ATS	NCC	Chinese Taipei	LL	t1	2876	2873	2562	1147	1168	1303	1149	1164	1254	745	744	377	671	727	612	410	428	496	582	406	511	4	7.6%	82%			
SWO	ATS	NCC	Chinese Taipei	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4					
SWO	ATS	CP	Uruguay	LL	t1	499	644	760	889	650	713	789	768	850	1105	843	620	464	370	501	222	179	40	103		5	3.8%	86%				
SWO	ATS	CP	Uruguay	LL	t2	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		5						
SWO	ATS	CP	Namibia	LL	t1					374	452	607	504	187	549	832	1118	1038	518	25	408	366	22	129	395	225	6	2.7%	88%			
SWO	ATS	CP	Namibia	LL	t2				a	-1	ab	a	-1	a	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	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	170	125	252	236	7	2.4%	91%			
SWO	ATS	CP	EU.Portugal	LL	t2	a	a	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	7					
SWO	ATS	CP	China PR	LL	t1				29	534	344	200	423	353	278	91	300	473	470	291	296	248	316	196	206	328	8	1.8%	93%			
SWO	ATS	CP	China PR	LL	t2				a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	abc	ab	8					
SWO	ATS	CP	South Africa	LL	t1	1			240	143	327	547	649	293	295	199	186	207	142	170	145	97	50	171	152	218	9	1.4%	94%			
SWO	ATS	CP	South Africa	LL	t2	-1			ab	ab	ab	ac	abc	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	-1	9					
SWO	ATS	CP	Ghana	GN	t1	103	140	44	106	121	117	531	372	734	343	55	32	65	177	132	116	60	54	37	26	56	10	1.2%	95%			
SWO	ATS	CP	Ghana	GN	t2	-1	ab	b	ab	b	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	10					
SWO	ATS	CP	Brazil	UN	t1				3			7					310	351	260	253	269	184	0			11	0.6%	96%				
SWO	ATS	CP	Brazil	UN	t2				-1			-1				b	-1	-1	-1	-1	-1	-1	-1			11						
SWO	ATS	CP	Senegal	LL	t1													77	138	195	180	264	162	178	143	97	12	0.5%	96%			
SWO	ATS	CP	Senegal	LL	t2													-1	a	-1	a	a	a	a	a	12						
SWO	ATS	CP	U.S.A.	LL	t1			172	417	170	185	144	43	200	21	16						0		0			13	0.5%	97%			
SWO	ATS	CP	U.S.A.	LL	t2			a	a	ab	abc	abc	abc	abc	abc	abc					bc			abc		c	13					
SWO	ATS	CP	S. Tomé e Príncipe	UN	t1	178	166	148	135	129	120	120	120	120	126												14	0.5%	97%			
SWO	ATS	CP	S. Tomé e Príncipe	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1												14					
SWO	ATS	CP	Korea Rep.	LL	t1	164	7	18	7	5	10	0	2	24	70		36	94	176	223	10	147	70	65	47	53	5	15	0.4%	98%		
SWO	ATS	CP	Korea Rep.	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a		-1	-1	-1	abc	abc	a	15				
SWO	ATS	CP	Belize	LL	t1	1					17	8									120	32	111	121	207	197	136	45	104	16	0.4%	98%
SWO	ATS	CP	Belize	LL	t2	a					-1	a						a	a	ab	ab	ab	ab	a	a	ab	16					

Table14. SWO-M stock

			T1 Total	13015	12053	14693	14369	13699	15569	15006	12814	15674	14405	14600	14893	14227	12164	11840	13265	11450	9913	9096	9801	10096						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SWO	MED	CP	EU.Italy	LL	t1	3035	2617	2458	2458	2680	2639	2236	1841	5844	5452	5560	5253	4564	4521	4687	5101	4579	3856	2848	3384	4213	1	29.3%	29%	
SWO	MED	CP	EU.Italy	LL	t2	b	b	b	ab	b	ab	b	b	b	b	b	b	b	bc	abc	abc	abc	abc	abc	abc	abc	1			
SWO	MED	CP	EU.España	LL	t1	1351	1040	1184	1409	867	1396	1402	1421	1165	930	860	1405	1648	2063	1994	1785	1730	1580	1605	2019	2289	2	11.4%	41%	
SWO	MED	CP	EU.España	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
SWO	MED	CP	Maroc	GN	t1	1518	2461	4653	2905	2979	2503	2266	2230	1629	1299	722	603	615	587	477	410	387					3	10.4%	51%	
SWO	MED	CP	Maroc	GN	t2	-1	-1	-1	c	bc	abc	abc	b	b	b	b	b	b	abc	-1	abc	abc					3			
SWO	MED	CP	EU.Greece	LL	t1	974	1237	750	1650	1520	1960	1730	1680	1230	1129	1424	1374	1907	989	1132	1494	1306	877	1731	1344	691	4	10.3%	61%	
SWO	MED	CP	EU.Greece	LL	t2	ab	-1	-1	ab	ab	ab	ab	b	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4			
SWO	MED	CP	EU.Italy	GN	t1	4264	2657	3632	3632	3632	4863							2373	1948								5	9.9%	71%	
SWO	MED	CP	EU.Italy	GN	t2	b	b	b	b	b	ab	b		b	b	b	b		-1								5			
SWO	MED	CP	Maroc	LL	t1	169	273	245	323	259	205	754	1149	1670	1954	1801	1455	1107	1370	1110	1200	640	802	770	770	480	6	6.8%	78%	
SWO	MED	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	bc	abc	abc	abc	6		
SWO	MED	CP	Tunisie	LL	t1	378	352	346	414	468	483	567	1138	285	791	791	949	1024	1011	1012	1016	1040	1038	1036	1030	1034	7	5.9%	84%	
SWO	MED	CP	Tunisie	LL	t2	-1	-1	-1	-1	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7			
SWO	MED	CP	EU.Italy	UN	t1	11					3	4152	1698	2540	1483	1891			5	329	694	718			3	32	8	5.0%	89%	
SWO	MED	CP	EU.Italy	UN	t2	-1					-1	-1	-1	b	-1	b	b		-1	-1		-1	-1	bc	-1	8				
SWO	MED	CP	Algerie	LL	t1	247	247	247			133	99			52	93	496	492	802	468	459	192	356	384	549	558	9	2.2%	91%	
SWO	MED	CP	Algerie	LL	t2	-1	-1	-1			-1	-1	-1	-1	-1	-1	-1	a	a	-1	-1	ab	ab	ab	ac	ab	9			
SWO	MED	CP	EU.Malta	LL	t1	72	72	100	153	187	175	102	257	163	195	362	239	213	260	266	423	532	503	460	376	489	10	2.1%	93%	
SWO	MED	CP	EU.Malta	LL	t2	-1	-1	-1	-1	ac	ac	ac	-1	-1	-1	abc	bc	ab	abc	ab	ab	ab	abc	ab	abc	abc	10			
SWO	MED	CP	Turkey	GN	t1	306	320	350	450	230	370	360	300	350	386	425	410	423									11	1.7%	95%	
SWO	MED	CP	Turkey	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	ac	ac	ac	c			11			
SWO	MED	CP	Algerie	GN	t1				590	531	599	642	467		233	311	87	108									12	1.3%	96%	
SWO	MED	CP	Algerie	GN	t2				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					12			
SWO	MED	CP	Algerie	UN	t1	560	560	560	178	126	166	306	248	665	122												13	1.3%	97%	
SWO	MED	CP	Algerie	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										13			
SWO	MED	CP	Turkey	LL	t1								70						386	301	334	190	66	97	56	14	0.6%	98%		
SWO	MED	CP	Turkey	LL	t2								-1					a	a	a	ab	a	ab	abc	abc	14				
SWO	MED	CP	EU.Cyprus	LL	t1	89	40	51	61	92	82	135	104	47	49	53	43	67	67	38	31	35	35	51	59	45	15	0.5%	99%	
SWO	MED	CP	EU.Cyprus	LL	t2	a	a	a	a	-1	a	-1	a	a	a	a	ab	abc	abc	abc	abc	abc	ab	abc	abc	abc	15			
SWO	MED	CP	EU.Italy	HP	t1		10	12	12		8			7	5	6			23	921						16	0.4%	99%		
SWO	MED	CP	EU.Italy	HP	t2		-1	-1	-1		-1			b	b	b	b	b	-1	abc				a			16			

Table16. WHM-A stock (AT + MD)

			T1 Total	1876	1679	1517	1912	1736	1521	1088	1010	844	823	751	610	680	670	714	495	537	460	372	387	465						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
WHM	A+M	NCC	Chinese Taipei	LL	t1	907	566	441	506	465	437	152	178	104	172	56	44	54	38	28	20	28	17	7	7	10	1	21.0%	21%	
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	1		
WHM	A+M	CP	Venezuela	LL	t1	271	258	168	297	210	166	176	198	158	116	143	169	103	47	109	108	154	106	63	74	104	2	15.9%	37%	
WHM	A+M	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	2			
WHM	A+M	NCO	NEI (ETRO)	LL	t1	237	285	359	526	498	322	180	11	9													3	12.1%	49%	
WHM	A+M	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1												3			
WHM	A+M	CP	Brazil	LL	t1	101	70	105	102	158	106	172	342	266	80	243	87	63	41	32	30	59	67	38	45	33	4	11.1%	60%	
WHM	A+M	CP	Brazil	LL	t2	a	a	a	a	ab	ab	ab	ab	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	4			
WHM	A+M	CP	EU.España	LL	t1	36	141	93	101	119	186	61	6	22	64	58	51	46	32	16	111	5	34	37	93	113	5	7.1%	67%	
WHM	A+M	CP	EU.España	LL	t2	b	b	ab	b	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	b	b	b	5		
WHM	A+M	NCO	NEI (BIL)	LL	t1						34	77	4	30	134	42	31	170	189	199							6	4.5%	72%	
WHM	A+M	NCO	NEI (BIL)	LL	t2						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			6				
WHM	A+M	CP	Japan	LL	t1	57	112	58	56	40	83	56	16	33	36	34	39	21	34	43	41	31	42	24	13	15	7	4.4%	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	a	ab	7			
WHM	A+M	CP	U.S.A.	LL	t1	100	65	70	32	57	41	17	29	17	27	17	9	8	9	13	8	59	20	10	11	8	8	3.1%	79%	
WHM	A+M	CP	U.S.A.	LL	t2	a	a	a	a	ab	a	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8		
WHM	A+M	CP	Korea Rep.	LL	t1	23	59	23			0			11	40	7			113	96	78	45	45			9	2.7%	82%		
WHM	A+M	CP	Korea Rep.	LL	t2	a	a	a			-1			-1	a	a			-1	a	a	-1	-1				9			
WHM	A+M	CP	S. Tomé e Príncipe	TR	t1	21	30	45	40	36	37	37	37	37	21	33	29			36	37	38				10	2.6%	84%		
WHM	A+M	CP	S. Tomé e Príncipe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	-1	-1	-1				10			
WHM	A+M	CP	Mexico	LL	t1	8	3	5	6	11	18	44	15	15	28	25	16	14	14	19	20	28	36	30	20	26	11	2.0%	86%	
WHM	A+M	CP	Mexico	LL	t2	-1	a	a	a	a	a	-1	-1	a	a	a	a	a	a	a	a	a	ab	a	a	a	ab	11		
WHM	A+M	CP	Trinidad and Tobago	LL	t1	18	8	32	10	13	4	2	5	12	6	6	5	12	10	11	15	14	39	33	38	32	12	1.6%	88%	
WHM	A+M	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	12		
WHM	A+M	CP	Venezuela	GN	t1	5	2	3	13	18	12	7	17	10	19	13	21	28	16	19	8	6	15	12	15		13	1.3%	89%	
WHM	A+M	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a		13		
WHM	A+M	CP	Barbados	LL	t1				41	33	25	25	24	15	15						3	2	4	5	5	10	14	1.2%	90%	
WHM	A+M	CP	Barbados	LL	t2				-1	-1	-1	-1	-1	-1	-1					-1	a	a	a	a	a	ab	14			
WHM	A+M	CP	EU.Portugal	LL	t1										5	19	30	22	2	35	40	11	18	22	10	8	15	1.1%	92%	
WHM	A+M	CP	EU.Portugal	LL	t2										a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	15			
WHM	A+M	NCO	Mixed flags (FR+ES)	PS	t1	9	7	7	9	8	12	13	12	13	13	11	10	9	10	12	12	37					16	1.0%	93%	
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		16			
WHM	A+M	CP	China PR	LL	t1	11	9	11	15	30	2	20	23	8	6	9	6	10	5	9	8	3	4	2			17	0.9%	94%	
WHM	A+M	CP	China PR	LL	t2	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	17			
WHM	A+M	CP	S. Tomé e Príncipe	PS	t1																	39	40	41	42	17	18	0.9%	94%	
WHM	A+M	CP	S. Tomé e Príncipe	PS	t2																	-1	-1	-1	-1	-1	18			
WHM	A+M	CP	Brazil	UN	t1				115												4	8	15	21	6	0	1	19	0.8%	95%
WHM	A+M	CP	Brazil	UN	t2				-1												-1	-1	-1	-1	-1	-1	19			
WHM	A+M	CP	Brazil	BB	t1								65														20	0.6%	96%	
WHM	A+M	CP	Brazil	BB	t2								-1										-1		-1	a	20			
WHM	A+M	NCO	Grenada	LL	t1								8														21	0.5%	96%	
WHM	A+M	NCO	Grenada	LL	t2								-1														21			
WHM	A+M	CP	Uruguay	LL	t1								1	9	2	5	9	3									22	0.4%	97%	
WHM	A+M	CP	Uruguay	LL	t2								-1	-1	-1	-1	-1	-1									22			
WHM	A+M	CP	Brazil	SU	t1											0	0										23	0.4%	97%	
WHM	A+M	CP	Brazil	SU	t2											-1	-1										23			
WHM	A+M	CP	Canada	LL	t1																						24	0.4%	98%	
WHM	A+M	CP	Canada	LL	t2								-1	a	a	a	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	24			
WHM	A+M	CP	U.S.A.	RR	t1								7	9	8	5	5	1	3	6	1	1	1	1	0	2	2	25	0.3%	98%
WHM	A+M	CP	U.S.A.	RR	t2								ab	ab	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	25		

Table17. SAI-E stock

		T1 Total	1234	1881	1337	1362	1342	1978	2761	2313	2625	2587	2194	1901	2542	2196	2062	1821	1460	1533	1311	1218	1271							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SAI	ATE	CP	Ghana	GN	t1	353	303	196	351	305	275	568	592	566	521	542	282	420	342	358	417	299	201	220	191	99	1	19.0%	19%	
SAI	ATE	CP	Ghana	GN	t2	-1	-1	b	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	1			
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t1	128	97	110	138	131	353	400	365	413	336	264	274	205	251	308	265	275	275	275	275	275	2	13.9%	33%	
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	2			
SAI	ATE	CP	Senegal	HL	t1	135	182	488	228	186	551	767	98	282	219	143	46	189	108	497	357	122	30	114	5	53	3	12.3%	45%	
SAI	ATE	CP	Senegal	HL	t2	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	a	-1	-1	b	b	-1	a	a	3			
SAI	ATE	CP	EU.España	LL	t1	13	42	38	15	20	8	150	210	183	148	177	200	192	206	280	174	154	201	203	302	333	4	8.4%	54%	
SAI	ATE	CP	EU.España	LL	t2	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	-1	b	b	-1	-1	b	b	4			
SAI	ATE	CP	S. Tomé e Príncipe	TR	t1	92	96	139	141	141	136	136	136	136	515	346	292	384	8	8	10						5	7.0%	61%	
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					5			
SAI	ATE	CP	Senegal	TR	t1	29	52	59	24	44	213	155	123	337	343	296	177	512	158	18			104	25			6	6.9%	67%	
SAI	ATE	CP	Senegal	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	-1		b	b	a	b	6			
SAI	ATE	CP	Côte d'Ivoire	GN	t1	66	91	65	35	80	45	47	65	121	73	93	78	52	448	74	24	108	192	80	99	52	7	5.1%	73%	
SAI	ATE	CP	Côte d'Ivoire	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	-1	a	-1	-1	-1	a	a	ab	a	7			
SAI	ATE	CP	Japan	LL	t1	52	47	19	58	16	26	6	20	22	70	50	62	144	199	94	115	142	157	71	118	72	8	4.0%	77%	
SAI	ATE	CP	Japan	LL	t2	ab	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	a	8			
SAI	ATE	CP	Liberia	GN	t1	33	85	43	136	122	154	56	133	127	106	122	118	115									9	3.5%	80%	
SAI	ATE	CP	Liberia	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								9			
SAI	ATE	CP	S. Tomé e Príncipe	PS	t1														101	106	106	124	127	131	134	312	10	2.9%	83%	
SAI	ATE	CP	S. Tomé e Príncipe	PS	t2														-1	-1	-1	-1	-1	-1	-1	-1	10			
SAI	ATE	NCC	Chinese Taipei	LL	t1	58	24	56	44	66	45	50	62	49	15	25	36	109	121	80	21	52	59	41	17	16	11	2.7%	86%	
SAI	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	11		
SAI	ATE	CP	EU.Portugal	LL	t1				27	42	6	1	2	10	6	11	136	43	49	84	142	96	68	108	33	41	12	2.3%	88%	
SAI	ATE	CP	EU.Portugal	LL	t2				-1	a	a	a	a	a	a	a	a	ab	a	a	a	ab	ab	ab	ab	a	12			
SAI	ATE	NCO	NEI (BIL)	SU	t1						255	365	162	53												13	2.1%	90%		
SAI	ATE	NCO	NEI (BIL)	SU	t2						-1	-1	-1	-1												13				
SAI	ATE	NCO	NEI (ETRO)	LL	t1	57	69	86	127	120	77	43	3	2	16	7	8	10									14	1.6%	92%	
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	14			
SAI	ATE	NCO	Cuba	UN	t1	72	533																				15	1.6%	93%	
SAI	ATE	NCO	Cuba	UN	t2	-1	-1																				15			
SAI	ATE	CP	Senegal	GN	t1	3	6	3	5	0	8	28	19	15	1	22	27	28	180	35	45	38	85	21	26	7	16	1.5%	95%	
SAI	ATE	CP	Senegal	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	-1	-1	b	b	b	a	ab	16		
SAI	ATE	NCO	Togo	GN	t1			9	22	36	23	62	55	95	135	47	31	71									17	1.5%	96%	
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	17			
SAI	ATE	CP	Gabon	GN	t1	110	218	2			0	4															18	0.9%	97%	
SAI	ATE	CP	Gabon	GN	t2	-1	-1	-1			-1	-1															18			
SAI	ATE	NCO	NEI (BIL)	LL	t1						28	15	42	51	2	1	105	43	20	11							19	0.8%	98%	
SAI	ATE	NCO	NEI (BIL)	LL	t2						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19			
SAI	ATE	CP	Senegal	SP	t1															78	82	14	28	4	4	20	20	0.5%	99%	
SAI	ATE	CP	Senegal	SP	t2															a	a	a	a	a	a	a	20			

Table18. SAI-W stock

		T1 Total	1211	1142	1267	1613	1580	1998	1842	2098	1512	1748	1864	1953	1595	1765	1691	1267	1361	1325	974	863	892							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SAI	ATW	CP	Venezuela	LL	t1	139	167	165	333	227	190	186	188	233	387	476	907	363	269	320	409	498	404	262	112	152	1			
SAI	ATW	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	1			
SAI	ATW	CP	EU.España	LL	t1	36	5	30	42	7	14	354	449	196	181	113	148	248	393	451	306	233	239	229	244	311	2	13.4%	34%	
SAI	ATW	CP	EU.España	LL	t2	-1	b	b	-1	b	b	b	b	-1	b	b	-1	b	b	b	-1	-1	-1	-1	-1	b	2			
SAI	ATW	CP	Brazil	LL	t1	97	76	69	106	278	531	412	325	347	208	415	82	59	75	73	76	135	106	25	57	30	3	11.4%	45%	
SAI	ATW	CP	Brazil	LL	t2	a	a	a	a	ab	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	3			
SAI	ATW	NCO	Grenada	LL	t1								151	171	112	147	159	174	216	183	191	191	191	191	191	191	4	7.8%	53%	
SAI	ATW	NCO	Grenada	LL	t2								-1	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	4			
SAI	ATW	CP	Venezuela	GN	t1	41	88	114	182	140	71	64	88	93	122	131	135	186	113	96	89	92	139	79	98	5	6.8%	60%		
SAI	ATW	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	a	5				
SAI	ATW	CP	U.S.A.	RR	t1	342	230	349	267	163	76	58	103		0	0	0	0	3	3	0	0	7	3	2	2	6	5.1%	65%	
SAI	ATW	CP	U.S.A.	RR	t2	b	ab	b	ab	b	b	-1	b	b	b	b	b	b	b	ab	b	b	b	b	b	ab	6			
SAI	ATW	NCO	Dominican Republic	SU	t1	40	40	101	89	27	67	81	260	91	144	165	133	147									7	4.4%	69%	
SAI	ATW	NCO	Dominican Republic	SU	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								7			
SAI	ATW	CP	Brazil	UN	t1								222	238			58	60	193	360	1	0	0			8	3.6%	73%		
SAI	ATW	CP	Brazil	UN	t2								-1	-1			-1	-1	-1	-1	-1	-1	-1	-1		8				
SAI	ATW	CP	Brazil	SU	t1	143	224	67	78	78	67					326	0									21	9	3.2%	76%	
SAI	ATW	CP	Brazil	SU	t2	-1	-1	-1	-1	-1	-1				-1	-1										-1	9			
SAI	ATW	CP	Mexico	LL	t1	19	10	9	65	40	118	36	34	45	51	55	42	47	45	48	34	32	51	63	42	35	10	2.9%	79%	
SAI	ATW	CP	Mexico	LL	t2	-1	a	a	a	a	a	-1	-1	a	a	a	a	abc	a	a	a	a	a	a	a	ab	10			
SAI	ATW	NCO	Grenada	UN	t1	119	56	83	151	148	164	187															11	2.9%	82%	
SAI	ATW	NCO	Grenada	UN	t2	-1	-1	-1	-1	-1	-1	-1															11			
SAI	ATW	NCO	Cuba	UN	t1	37	37	40	28	196	208	68	32	18	50	72	47	56									12	2.8%	84%	
SAI	ATW	NCO	Cuba	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									12			
SAI	ATW	CP	Barbados	LL	t1	74	25	71	58	44	44	42	26	27	26	42	58	42			16	29	25	35	37	53	13	2.5%	87%	
SAI	ATW	CP	Barbados	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	a	a	a	a	a	13			
SAI	ATW	NCO	NEI (BIL)	LL	t1						297	267						81	59	17						14	2.3%	89%		
SAI	ATW	NCO	NEI (BIL)	LL	t2						-1	-1						-1	-1	-1						14				
SAI	ATW	CP	St. Vincent and Grenadines	LL	t1						2	164	3	86	73	59	18	13	8	7	4	4	3	4	1	15	1.4%	91%		
SAI	ATW	CP	St. Vincent and Grenadines	LL	t2						-1	a	a	a	-1	a	a	a	a	a	a	a	a	a	a	15				
SAI	ATW	CP	U.S.A.	LL	t1	30	69	57	27	72	45	11	7	5	7	3	5	7	9	10	4	10	18	11	11	6	16	1.3%	92%	
SAI	ATW	CP	U.S.A.	LL	t2	a	a	a	a	ab	a	a	ac	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	16			
SAI	ATW	CP	Trinidad and Tobago	LL	t1	1	4	10	25	37	3	7	6	7	10	9	17	13	32	16	16	32	60	28	23	51	17	1.3%	93%	
SAI	ATW	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	17			
SAI	ATW	CP	EU.Portugal	LL	t1						7	0	2	12	12	110	19	53	101	48	19	9	4			18	1.3%	95%		
SAI	ATW	CP	EU.Portugal	LL	t2						a	a	-1	-1	a	a	a	a	a	ab	a	a	ab	ab	ab	a	18			
SAI	ATW	NCC	Chinese Taipei	LL	t1	19	19	2	65	17	11	33	31	13	8	21	5	14	10	11	6	9	27	7	3	11	19	1.1%	96%	
SAI	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	19			
SAI	ATW	NCO	NEI (ETRO)	LL	t1	30	36	46	67	64	41	23	1	1	9	4	4	6									20	1.1%	97%	
SAI	ATW	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									20			
SAI	ATW	CP	Japan	LL	t1	2	4	17	3	10	12	3	3	10	5	22	4	1	33	43	36	13	16	7	23	25	21	0.9%	98%	
SAI	ATW	CP	Japan	LL	t2	a	a	a	ab	ab	ab	a	ab	a	ab	a	ab	ab	ab	ab	ab	ab	ab	a	a	ab	a	21		

Table19. SPF-E stock

				T1 Total	207	128	194	192	255	178	79	84	50	51	68	75	66	60	78	110	66	169	94	16	17					
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SPF	ATE	NCC	Chinese Taipei	LL	t1	97	41	94	73	112	75	52	62	25	15	25	37	22	2	6	15	7	6	0	0	1	1			
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	a	ab	1	34.4%	34%
SPF	ATE	CP	Japan	LL	t1	26	25	30	22	33	29	20	16	25	36	40	21	36	53	59	35	31	127	85	3	0	2	33.7%	68%	
SPF	ATE	CP	Japan	LL	t2	ab	a	a	ab	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	2			
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	78	59	68	86	81	60																3	19.3%	87%	
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1	-1																3			
SPF	ATE	CP	EU.España	LL	t1	5	1	1	9	29	14	7	5														4	8.3%	96%	
SPF	ATE	CP	EU.España	LL	t2	-1	b	b	b	b	b	b	b			b	b			-1	b	b	b	b		-1	4			
SPF	ATE	CP	EU.Portugal	LL	t1											15	8	2	6	25	9	18					5	3.7%	99%	
SPF	ATE	CP	EU.Portugal	LL	t2											a	a	a	a	a	a		-1		a	5				
SPF	ATE	CP	Senegal	LL	t1																						6	0.3%	100%	
SPF	ATE	CP	Senegal	LL	t2																a						6			
SPF	ATE	CP	Korea Rep.	LL	t1	1	3	1																			7	0.2%	100%	
SPF	ATE	CP	Korea Rep.	LL	t2	-1	-1	a																			7			
SPF	ATE	CP	China PR	LL	t1				2																	0	8	0.1%	100%	
SPF	ATE	CP	China PR	LL	t2				-1															a		a	8			
SPF	ATE	CP	South Africa	LL	t1																		0	0	0	0	9	0.0%	100%	
SPF	ATE	CP	South Africa	LL	t2																	a	a	a	a	-1	9			
SPF	ATE	CP	St. Vincent and Grenadines	LL	t1														0								10	0.0%	100%	
SPF	ATE	CP	St. Vincent and Grenadines	LL	t2																						10			
SPF	ATE	CP	EU.Portugal	TP	t1						0																11	0.0%	100%	
SPF	ATE	CP	EU.Portugal	TP	t2						-1															a	11			

Table20. SPF-W stock

				T1 Total	33	37	7	74	51	100	110	95	84	137	101	265	102	106	62	135	81	60	39	60	60						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum		
SPF	ATW	CP	Japan	LL	t1		3	4	1	8	11	11	3	12	40	41	58	25	45	26	71	20	19	3	4	0	1				
SPF	ATW	CP	Japan	LL	t2	a	a	a	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	a	ab	ab	1				
SPF	ATW	NCC	Chinese Taipei	LL	t1	19	18	2	64	16	11	24	39	12	11	20	17	20	0			6	14	3	1	23	1	2	17.9%	43%	
SPF	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			ab	ab	ab	a	ab	ab	2		
SPF	ATW	CP	St. Vincent and Grenadines	LL	t1										82		135	23	13		7	8	5	4	3	3	1	3	15.8%	59%	
SPF	ATW	CP	St. Vincent and Grenadines	LL	t2										a		a	a	a	a	a	a	a	a	a	a	3				
SPF	ATW	CP	EU.España	LL	t1	1		0	0	24	50	22	5	25		5	14		2	5	3	4	3	10	11	20	4	11.4%	71%		
SPF	ATW	CP	EU.España	LL	t2	-1	b	b	-1	b	b	b	b			b	b		-1	b	b	-1	-1	b	b	-1	4				
SPF	ATW	CP	Venezuela	LL	t1		1	0	1	0		4	0	3	3	17	5	15	3	14	24	11	24	11	13	32	5	10.1%	81%		
SPF	ATW	CP	Venezuela	LL	t2	b	a	ab	ab	ab		-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	5				
SPF	ATW	CP	Brazil	LL	t1						27	56	39	3		0	5	4					24	4	11		5	10.0%	91%		
SPF	ATW	CP	Brazil	LL	t2						-1	-1	-1	a	a	a	a	ab	a	ab	a	a	a	-1		a	6				
SPF	ATW	CP	EU.Portugal	LL	t1												35	15	44	10	10	0	3			7	6.5%	97%			
SPF	ATW	CP	EU.Portugal	LL	t2												a	a	a	a	a	a	-1		a	7					
SPF	ATW	CP	Korea Rep.	LL	t1	4	10	4																		8	1.0%	98%			
SPF	ATW	CP	Korea Rep.	LL	t2	-1	-1	-1																		8					
SPF	ATW	CP	Belize	LL	t1																	12	3			9	0.8%	99%			
SPF	ATW	CP	Belize	LL	t2																	a	a			9					
SPF	ATW	CP	U.S.A.	LL	t1	6	1																			10	0.4%	99%			
SPF	ATW	CP	U.S.A.	LL	t2	a	a	a	a	a	a	a										a			a	10					
SPF	ATW	CP	Brazil	HL	t1																				6		11	0.4%	100%		
SPF	ATW	CP	Brazil	HL	t2																				-1	11					
SPF	ATW	CP	U.S.A.	UN	t1		2																			12	0.1%	100%			
SPF	ATW	CP	U.S.A.	UN	t2		-1																			12					
SPF	ATW	CP	Mexico	LL	t1						1												0			13	0.1%	100%			
SPF	ATW	CP	Mexico	LL	t2	a					-1												-1		a	13					
SPF	ATW	CP	Brazil	SU	t1																				1	14	0.0%	100%			
SPF	ATW	CP	Brazil	SU	t2																				-1	14					
SPF	ATW	CP	Venezuela	GN	t1																	0				15	0.0%	100%			
SPF	ATW	CP	Venezuela	GN	t2																	a				15					

Table21. BSH-N region

		T1 Total	8468	7395	29283	26763	26172	28174	21709	20066	23005	21742	22359	23217	26927	30723	35198	37178	38083	36778	37058	39881	43708								
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	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	1	72.3%	72%		
BSH	ATN	CP	EU.España	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	1				
BSH	ATN	CP	EU.Portugal	LL	t1	4722	4843	2630	2440	2227	2081	2110	2265	5642	1751	4026	4337	5283	6164	6248	8256	6508	3725	3694	2994	3808	2	14.7%	87%		
BSH	ATN	CP	EU.Portugal	LL	t2	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2				
BSH	ATN	CP	Japan	LL	t1	1145	618	489	340	357	273	350	386	558	1035	1729	1434	1921	2531	2007	1763	1227	2437	1808	6573	8153	3	6.4%	93%		
BSH	ATN	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	3			
BSH	ATN	CP	Canada	LL	t1	1494	528	831	612	547	624	581	836	346	965	1134	977	843	0	0	0	0	0	1	0	1	5	4	1.8%	95%	
BSH	ATN	CP	Canada	LL	t2	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	4				
BSH	ATN	CP	Belize	LL	t1																114	461	1039	903	1216	392	4	5	0.7%	96%	
BSH	ATN	CP	Belize	LL	t2																ab	ab	ab	ab	a	a	a	5			
BSH	ATN	NCC	Chinese Taipei	LL	t1	167	132	203	246	384	165	59		171	206	240	588	292	110	73	99	148	107	123	104	185	6	6	0.7%	97%	
BSH	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6			
BSH	ATN	CP	Panama	LL	t1					9							254	892	613	1575				289	153	7	7	0.6%	97%		
BSH	ATN	CP	Panama	LL	t2					-1							a	a	a	a				a	a	7					
BSH	ATN	CP	U.S.A.	LL	t1	622	607	181	172	96	137	105	68	55	70	68	47	54	137	106	176	232	123	114	142	83	8	8	0.6%	98%	
BSH	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	b	c		-1	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	8			
BSH	ATN	CP	EU.France	UN	t1	266	278	213	163	399	395	207	221	57	95	120	99	50	46	30	3	6	0	0	105	1	9	9	0.5%	98%	
BSH	ATN	CP	EU.France	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9				
BSH	ATN	CP	China PR	LL	t1							185	104	148						367	109	88	53	109	98	327	10	10	0.3%	98%	
BSH	ATN	CP	China PR	LL	t2							-1	-1	-1						a	a	a	a	a	a	ab	11				
BSH	ATN	CP	U.S.A.	SP	t1	19	277	210	252	216	291	39															11	11	0.2%	99%	
BSH	ATN	CP	U.S.A.	SP	t2	-1	-1	-1	-1	-1	-1	-1															11				
BSH	ATN	CP	Korea Rep.	LL	t1																	537	299	327	113	18	12	12	0.2%	99%	
BSH	ATN	CP	Korea Rep.	LL	t2																	b	abc	abc	a	b	12				
BSH	ATN	CP	Venezuela	LL	t1	15	4	26	6	47	42	46	28	38	9	26	10	18	7	71	74	116	96	51	111	129	13	13	0.2%	99%	
BSH	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	13			
BSH	ATN	CP	EU.France	LL	t1										8					111	47	30	77	66	18	173	24	14	14	0.1%	99%
BSH	ATN	CP	EU.France	LL	t2										-1					-1	-1	-1	-1	b	-1	-1	ab	-1	14		
BSH	ATN	CP	Canada	UN	t1						581																15	15	0.1%	99%	
BSH	ATN	CP	Canada	UN	t2						-1																15				

Table22. BSH-S region

		T1 Total	3108	4252	10145	8797	10829	12444	14043	12682	14967	14438	20642	20493	23487	23097	23459	27799	35069	26421	19682	29292	24234							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	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	1	46.4%	46%	
BSH	ATS	CP	EU.España	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	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	2	15.4%	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	a	2			
BSH	ATS	CP	Namibia	LL	t1					0			2213	2316	1906	6616	3536	3419	1829	207	2351	2633	1176	1147	2471	2137	3	9.0%	71%	
BSH	ATS	CP	Namibia	LL	t2					-1			a	-1	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	3			
BSH	ATS	CP	Brazil	LL	t1		743	1103		179	1683	2173	1966	2160	1568	2520	2533	2309	1625	1268	1500	1913	1607	1008	2548	2080	4	8.6%	79%	
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	4			
BSH	ATS	NCC	Chinese Taipei	LL	t1	1767	1952	1737	1559	1496	1353	665			521	800	866	1805	2177	1843	1356	1625	2142	2074	2257	2219	1357	5	8.3%	88%
BSH	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	5		
BSH	ATS	CP	Japan	LL	t1	437	425	506	510	536	221	182	343	331	209	236	525	896	1789	981	1161	1483	3060	2255	6397	4580	6	7.1%	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	6		
BSH	ATS	CP	Uruguay	LL	t1	57	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130			7	1.5%	96%	
BSH	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	ab	ab	b	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	487	8	0.8%	97%	
BSH	ATS	CP	South Africa	LL	t2				-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	-1	8			
BSH	ATS	CP	China PR	LL	t1						565	316	452					585	40	109	41	131	84	64	48	20	9	0.6%	98%	
BSH	ATS	CP	China PR	LL	t2						-1	-1	-1				a	a	a	a	a	a	a	ab	a	9				
BSH	ATS	CP	Belize	LL	t1									37	259			236	109		273	243	483	234	171	105	10	0.6%	98%	
BSH	ATS	CP	Belize	LL	t2									a	a	a	a	a			ab	ab	ab	a	a	a	10			
BSH	ATS	CP	Ghana	GN	t1																				1583	385	11	0.5%	99%	
BSH	ATS	CP	Ghana	GN	t2																			a	a	11				
BSH	ATS	CP	S. Tomé e Príncipe	PS	t1																	143	147	152	156	206	12	0.2%	99%	
BSH	ATS	CP	S. Tomé e Príncipe	PS	t2																	-1	-1	-1	-1	-1	12			
BSH	ATS	CP	Panama	LL	t1					168	22										521						13	0.2%	99%	
BSH	ATS	CP	Panama	LL	t2					-1	-1					a	a	a	a				a	a		13				
BSH	ATS	CP	Korea Rep.	LL	t1																222	125	112	61	10	71	14	0.2%	99%	
BSH	ATS	CP	Korea Rep.	LL	t2																b	b	abc	abc	a	a	14			

Table23. BSH-M region

		T1 Total	8	2	150	63	22	45	47	17	11	125	72	178	50	81	185	216	40	42	100	235	85							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
BSH	MED	CP	EU.España	LL	t1			146	59	20	31	6	3	3	4	8	61	3	2	7	48	38	39	37	53	65	1	35.7%	36%	
BSH	MED	CP	EU.España	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	-1	a	ab	ab	ab	1			
BSH	MED	CP	EU.Italy	UN	t1										67	95								3	44	2	21.1%	57%		
BSH	MED	CP	EU.Italy	UN	t2										-1	-1								-1	-1	2				
BSH	MED	CP	EU.Italy	LL	t1										32	1			44	75	9				25	129	3	17.7%	75%	
BSH	MED	CP	EU.Italy	LL	t2										-1	-1			-1	-1	-1				-1	-1	3			
BSH	MED	CP	EU.Italy	GN	t1										12				2		166						4	10.1%	85%	
BSH	MED	CP	EU.Italy	GN	t2										-1				-1		-1						4			
BSH	MED	CP	EU.Portugal	LL	t1				2		5	41	14	3		56	22										5	8.0%	93%	
BSH	MED	CP	EU.Portugal	LL	t2				-1		-1	-1	a	a	a	a	a					a					5			
BSH	MED	CP	EU.Italy	TW	t1														0	1					29		6	1.7%	94%	
BSH	MED	CP	EU.Italy	TW	t2														-1	-1					-1		6			
BSH	MED	CP	EU.Cyprus	LL	t1						9				3	6	5										7	1.3%	96%	
BSH	MED	CP	EU.Cyprus	LL	t2					a				a	a	a											7			
BSH	MED	CP	EU.France	LL	t1																0	0	0	0	3	4	14	8	1.3%	97%
BSH	MED	CP	EU.France	LL	t2																-1	-1	-1	-1	-1	b	-1	8		
BSH	MED	CP	EU.Malta	LL	t1														1	1	2	1	1	2	2	4	5	9	1.1%	98%
BSH	MED	CP	EU.Malta	LL	t2					a	a					a		a	ab	ab	ab	ab	ab	abc	ab	abc	a	9		
BSH	MED	CP	Japan	LL	t1		7	1	1						1	1	2				2	0					10	0.9%	99%	
BSH	MED	CP	Japan	LL	t2		-1	-1	-1						-1	-1	-1				-1	a					10			
BSH	MED	CP	EU.Malta	UN	t1		1	1	2	2	1	1	1	1	0			0									11	0.7%	100%	
BSH	MED	CP	EU.Malta	UN	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1		-1	-1									11			

Table24. POR-N region

			T1 Total	2136	1556	1833	1451	1393	1457	507	838	604	725	539	470	512	524	421	119	68	111	156	29	57						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
POR	ATN	CP	Canada	LL	t1	1351	1045	1322	1055	956	899		223	130	220	191	184	83	115	50	65	22	29	16	8	3	1	51.4%	51%	
POR	ATN	CP	Canada	LL	t2	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	abc	ab	ab	ab	ab	ab	1			
POR	ATN	CP	EU.France	UN	t1	565	267	315	219	240	410	361	461	303	194	276	194	83	83	153							2	26.6%	78%	
POR	ATN	CP	EU.France	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							2			
POR	ATN	CP	EU.France	LL	t1								185				271	184	46			1	0			3	4.4%	82%		
POR	ATN	CP	EU.France	LL	t2								-1			-1	-1	-1				-1	-1		-1	3				
POR	ATN	CP	EU.Denmark	UN	t1	86	72	69	85	107	73	76	42									0		2			4	3.9%	86%	
POR	ATN	CP	EU.Denmark	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1								a		a				4			
POR	ATN	CP	EU.España	LL	t1	19	41	25	25	18	13	24	54	27	11	14	34	8	41	77			0				5	2.8%	89%	
POR	ATN	CP	EU.España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1				5			
POR	ATN	CP	Norway	UN	t1	26	28	17	27	32	22		19				1	8	9	6	12	11	17				6	1.5%	91%	
POR	ATN	CP	Norway	UN	t2	-1	-1	-1	-1	-1	-1		-1				-1	-1	-1	-1	-1	-1	-1	-1	-1		6			
POR	ATN	CP	U.S.A.	LL	t1	35	78	56	9	0	1	0	1	0	1	0	0	0	0	0	0	3	2	0	2	7	35	7	1.5%	92%
POR	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab		7		
POR	ATN	CP	EU.Portugal	LL	t1					0	7	4	10	101	50	14	6	0	3	17	7	0	0				8	1.4%	94%	
POR	ATN	CP	EU.Portugal	LL	t2					-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a		ab		8			
POR	ATN	CP	Japan	LL	t1		5	4										12	10	13	13	14	49	98	0	0	9	1.4%	95%	
POR	ATN	CP	Japan	LL	t2		-1	-1										-1	-1	ab	ab	ab	a	a	a	a		9		
POR	ATN	CP	Canada	GN	t1	2	4	8	11	6	2	7	12	11	10	10	6	10	8	11	18	7	2	0	1	1	10	1.0%	96%	
POR	ATN	CP	Canada	GN	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ac	a	a	a	a	a		10		
POR	ATN	NCO	Faroe Islands	UN	t1	44	8	9	7	10																	11	0.5%	96%	
POR	ATN	NCO	Faroe Islands	UN	t2	-1	-1	-1	-1	-1																		11		
POR	ATN	CP	EU.Ireland	UN	t1					8	2	6	3	11	18		4	8	7			0					12	0.4%	97%	
POR	ATN	CP	EU.Ireland	UN	t2					-1	-1	-1	-1	-1	-1		-1	-1	-1			-1					12			
POR	ATN	CP	EU.France	TW	t1									24					22	14		1	3			3	13	0.4%	97%	
POR	ATN	CP	EU.France	TW	t2								-1						-1	-1		-1	-1		-1		13			
POR	ATN	CP	Norway	GN	t1					6	3					8	26	1	2	2					8		14	0.4%	98%	
POR	ATN	CP	Norway	GN	t2					-1	-1					-1	-1	-1	-1	-1				-1			14			
POR	ATN	CP	U.S.A.	RR	t1																	8	4	27	7	9	15	0.4%	98%	
POR	ATN	CP	U.S.A.	RR	t2																	-1	-1	-1	-1	-1	15			

Table25. POR-S region

				T1 Total	3	3	26	17	10	11	1	11	43	17	31	37	13	85	62	16	21	37	29	51	7					
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
POR	ATS	CP	Uruguay	LL	t1	3		5	14	3	4		8	34	8	28	34	3	40	14	6	12	12			1	43.1%	43%		
POR	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1		-1	-1	-1	-1	a	a	b	a	-1	ab	ab	b		1				
POR	ATS	CP	Japan	LL	t1		3	14											5	41	34	8	7	25	15	26	7	2	34.9%	78%
POR	ATS	CP	Japan	LL	t2		-1	-1											-1	-1	a	a	a	a	a		2			
POR	ATS	CP	EU.España	LL	t1			2	2	2	7	1	2	9	4	0	3	5	4	13						3	10.0%	88%		
POR	ATS	CP	EU.España	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						3				
POR	ATS	CP	Ghana	PS	t1																				25	4	4.7%	93%		
POR	ATS	CP	Ghana	PS	t2																			-1	4					
POR	ATS	CP	Korea Rep.	LL	t1																		14		5	2.6%	95%			
POR	ATS	CP	Korea Rep.	LL	t2																		abc		5					
POR	ATS	NCO	Benin	SU	t1		4	0	4																6	1.5%	97%			
POR	ATS	NCO	Benin	SU	t2		-1	-1	-1																6					
POR	ATS	CP	EU.Portugal	LL	t1										4	2										7	1.3%	98%		
POR	ATS	CP	EU.Portugal	LL	t2									a	a	a									a	7				
POR	ATS	NCC	Chinese Taipei	LL	t1															2	0	0	0	1	0	0	8	0.6%	99%	
POR	ATS	NCC	Chinese Taipei	LL	t2															a	-1	a	a	a	-1	8				
POR	ATS	CP	Brazil	LL	t1																	2				9	0.4%	99%		
POR	ATS	CP	Brazil	LL	t2									a											a	9				
POR	ATS	NCO	Falklands	TW	t1	0	0	0	1	0	0															10	0.3%	99%		
POR	ATS	NCO	Falklands	TW	t2	-1	-1	-1	-1	-1	-1															10				
POR	ATS	CP	Japan	TW	t1	0		0	0	1																11	0.2%	100%		
POR	ATS	CP	Japan	TW	t2	-1	-1	-1	-1	-1																11				
POR	ATS	CP	Guinea Ecuatorial	HL	t1																0					12	0.1%	100%		
POR	ATS	CP	Guinea Ecuatorial	HL	t2															a						12				
POR	ATS	CP	EU.España	TW	t1	0	0		0																	13	0.1%	100%		
POR	ATS	CP	EU.España	TW	t2	-1	-1		-1																	13				
POR	ATS	NCO	Falklands	LL	t1								0													14	0.1%	100%		
POR	ATS	NCO	Falklands	LL	t2								-1													14				

Table26. SMA-N region

		T1 Total	3138	2053	3580	3855	2791	2597	2682	3416	3923	5180	3479	3378	4083	3566	4116	4188	3771	4478	3646	2975	3269							
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum	
SMA	ATN	CP	EU.España	LL	t1			2416	2199	2051	1566	1684	2047	2068	3404	1751	1918	1816	1895	2216	2091	1667	2308	1509	1481	1362	1	50.5%	50%	
SMA	ATN	CP	EU.España	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	1			
SMA	ATN	CP	EU.Portugal	LL	t1	657	691	354	307	327	318	378	415	1249	399	1109	951	1540	1033	1169	1432	1045	1023	817	209	213	2	21.1%	72%	
SMA	ATN	CP	EU.Portugal	LL	t2	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2			
SMA	ATN	CP	Japan	LL	t1	592	790	258	892	120	138	105	438	267	572			82	131	98	116	53	56	33	138	94	3	6.7%	78%	
SMA	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	-1	ab	ab	ab	a	a	a	a	3			
SMA	ATN	CP	U.S.A.	LL	t1	310	234	242	195	89	164	181	167	141	188	187	129	222	197	221	226	213	198	190	207	336	4	5.7%	84%	
SMA	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	4			
SMA	ATN	CP	U.S.A.	SP	t1	1422	232	164	148	69	290	214	248														5	3.8%	88%	
SMA	ATN	CP	U.S.A.	SP	t2	-1	-1	-1	-1	-1	-1	-1	-1														5			
SMA	ATN	CP	Maroc	LL	t1																	390	380	616	580	807	6	3.7%	91%	
SMA	ATN	CP	Maroc	LL	t2																	-1	a	a	-1	a	6			
SMA	ATN	CP	U.S.A.	RR	t1		0	0	0	0	1	0	0	0	333	282	257	158	156	163	168	178	229	219	201	190	7	3.4%	95%	
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	7			
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	8	1.7%	97%	
SMA	ATN	CP	Canada	LL	t2	-1	a	a	a	a	a	a	-1	a	a	a	-1	-1	-1	a	abc	ab	ab	ab	ab	ab	8			
SMA	ATN	NCC	Chinese Taipei	LL	t1	21	16	25	31	48	21	7			84	57	19	30	25	23	11	14	13	15	8	6	11	9	0.7%	97%
SMA	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1			ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	9		
SMA	ATN	CP	Belize	LL	t1																23	28	69	114	99	1	1	10	0.5%	98%
SMA	ATN	CP	Belize	LL	t2																ab	ab	ab	ab	-1	-1	-1	10		
SMA	ATN	CP	Venezuela	LL	t1	4	12	3	1	2	2	20	16	22	58	20	6	11	2	35	22	18	24	6	7	7	11	0.4%	98%	
SMA	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	b	b	ab	a	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	11		
SMA	ATN	CP	Maroc	PS	t1																	30	26	51	44	140	12	0.4%	98%	
SMA	ATN	CP	Maroc	PS	t2																	-1	-1	-1	-1	-1	12			
SMA	ATN	CP	China PR	LL	t1						0								81	16	19	29	18	24	11	5	2	13	0.3%	99%
SMA	ATN	CP	China PR	LL	t2						-1								a	a	a	a	a	a	a	a	13			

Table27. SMA-S region

				T1 Total	1927	942	2182	1798	1495	2549	2059	1964	3801	2423	3130	2951	2834	1880	2034	2477	3251	2880	1928	3341	2585						
Species	Stock	Status	FlagName	GearGrp	DSet	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Rank	%	%cum		
SMA	ATS	CP	EU.España	LL	t1			1356	1141	861	1200	1235	811	1158	703	584	664	654	628	939	1192	1535	1197	1083	1077	862	1	37.4%	37%		
SMA	ATS	CP	EU.España	LL	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	1				
SMA	ATS	CP	Namibia	LL	t1					1			459	375	509	1415	1243	1002	295	23	306	328	554	9	950	661	2	16.1%	54%		
SMA	ATS	CP	Namibia	LL	t2					-1			a	-1	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	2				
SMA	ATS	CP	Japan	LL	t1	1617	514	244	267	151	264	56	133	118	398				72	115	108	103	132	291	114	362	220	3	10.5%	64%	
SMA	ATS	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				-1	-1	ab	ab	ab	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	176	132	127	158	4	10.1%	74%		
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	a	4			
SMA	ATS	CP	Brazil	LL	t1		83	190		27	219	409	226	283	177	426	183	152	121	92	128	179	193	80	256	120	5	7.0%	81%		
SMA	ATS	CP	Brazil	LL	t2		-1	-1		-1	ab	a	a	a	a	ab	a		-1	a	a	a	-1	a	-1	-1	a	5			
SMA	ATS	NCC	Chinese Taipei	LL	t1	166	183	163	146	141	127	63		626	121	128	138	211	124	117	144	204	158	157	159	114	6	6.7%	88%		
SMA	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	6			
SMA	ATS	CP	South Africa	LL	t1				19	13		77	19	138	126	125	99	208	136	100	143	210	92	177	365	402	7	4.9%	93%		
SMA	ATS	CP	South Africa	LL	t2				-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	-1	7				
SMA	ATS	CP	China PR	LL	t1	23	27	19	74	126	305	22	208	260					77	6	24	32	29	8	9	9	5	8	2.5%	95%	
SMA	ATS	CP	China PR	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				a	a	a	a	a	a	a	a	a	8			
SMA	ATS	CP	Uruguay	LL	t1	17	26	20	23	21	35	40	38	188	249	146	68	36	41	106	23	76	36	1			9	2.4%	98%		
SMA	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a		-1	ab	ab	ab		9				
SMA	ATS	CP	Belize	LL	t1											38			17	2		32	59	78	88	1	15	10	0.7%	98%	
SMA	ATS	CP	Belize	LL	t2											-1			a	a		ab	ab	ab	-1	-1	a	10			
SMA	ATS	CP	Côte d'Ivoire	GN	t1	13	15	23	10	10	9	15	15	30	15	14	16	25				ab	ab	ab	19	33	19	11	11	0.6%	99%
SMA	ATS	CP	Côte d'Ivoire	GN	t2	-1	-1	-1	-1	-1	-1	-1	b	b		-1	-1	-1	a					a	a	ab	a	11			

FAD type	Quarter	Belize				CUW				EU ESP				EU FRA				LCA				PAN			
		No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs	No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs	No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs	No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs	No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs	No. with beacons	No. Without beacons	No. Beacons followed	No. Lost FADs
SAT						85	0	37	11																
	1					72	0	15	3																
	2					5	0	8	4																
	3					4	0	8	2																
	4					4	0	6	2																
FAA																									
	1																								
	2																								
	4																								
FADA		993	0		258					17327	0	950.1	14689	1287	0	3043	0					1525	0	1319	238
	1	308	0		105					4935	0	493.5	1559	282	0	787	0					55	0	440	98
	2	271	0		53					4917	0	447	3141	358	0	701	0					264	0	195	8
	3	271	0		68					3815	0	9.6	4467	335	0	732	0					871	0	330	38
	4	143	0		32					3660	0	0	5522	312	0	823	0					335	0	354	94
FADN										52	0	4.8	26												
	1									3	0	0.3	1												
	2									22	0	2	3												
	3									25	0	2.5	13												
	4									2	0	0	9												
SATES						1294	0	2110	639																
	1					229	0	424	93																
	2					560	0	458	133																
	3					294	0	620	214																
	4					211	0	608	199																
NA										1248	0	74.3	1877												
	1									251	0	25.1	141												
	2									241	0	21.9	598												
	3									253	0	25.3	611												
	4									503	0	2	527												
Grand Total		1158	0			1379	0	2147	650	18627	0	1029.2	16592	1287	0	3043	0	4				1525	0	1319	238