

SECRETARIAT REPORT ON STATISTICS AND COORDINATION OF RESEARCH IN 2017

Introduction

The activities and information included in this report refer to the period between 1 December 2016 and 13 October 2017 (the reporting period)¹. All the basic fisheries, biological statistics and 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 continuous 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 provision, particularly special requests for stock assessment purposes, have constituted an enormous amount of work for the Secretariat. This was particularly true in 2017 where there was an unprecedented number of SCRS meetings, which is not sustainable.

1. Statistical and biological information reporting status

The ICCAT Circular #0671/17 from 6 February 2017 established the provisions for reporting fisheries and biological data to ICCAT. The reception date of each email (with the respective files attached) was adopted as the official submission date of the Contracting, Cooperating Party, Entity or Fishing Entity (CPC). The deadlines for the intersessional meetings (all requiring finalised data up to 2015) were: albacore tuna, 5 May 2017; shortfin mako shark, 12 May 2017; Atlantic swordfish, 3 June 2017; and bluefin tuna, 20 June 2017. The general deadline for reporting 2016 statistics (or any required revision to prior years) of all species and fisheries was, 31 July 2017. A tolerance of 24 hours was given to include all the time zones.

A total of 56 ICCAT CPCs (51 Contracting Parties (CP), plus 5 Cooperating non-Contracting Parties/Entities/Fishing Entities (NCCs)) have reporting obligations to ICCAT. For statistical purposes, this corresponds to a total of 74 flag related CPCs (49 CP + 1 CP [16 EU Member States] + 1 CP [4 UK Overseas Territories Member States] + 5 NCCs) who have reported information to ICCAT in recent years. The term "flag CPC" was adopted here to refer to those 74 flags.

The Secretariat used (for the fourth consecutive year) the SCRS filtering criteria (Filter 1 and 2, described in Addendum 2 to Appendix 8 of the 2013 SCRS report, updated by the SCRS in 2016) to validate and accept statistical data received under official formats. The filtering rules are also included in the electronic forms.

For 2016 data, Filter 1 was effectively applied and the results are presented in the SCRS Report Cards (**Tables 1, 2, 3, 4, and 5**, with a summary in **Figure 1**). The "orange" cells indicate the datasets that have not passed Filter 1. However, the majority of the rejected datasets were corrected afterwards by the Secretariat, and provisionally (marked for revision) integrated into the ICCAT database system (ICCAT-DB). Filter 2 was used for testing purposes and the results presented to the SCRS. Both filters were used on every Task I and Task II dataset received (scenario 2, methodology described in Palma and Gallego, 2015²). The filtering criteria was not applied to the tagging forms as the Secretariat does not yet have the necessary conditions to apply them on tagging datasets (corresponding databases and duly automated forms).

¹ Only data received by the Secretariat in valid formats (version 2017 of the electronic forms, or special formats) and within this period was considered in this report. Information submitted afterwards is not referred to in the report.

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

As planned in 2016, nearly 80% of all of the “ST” type statistical forms received (numbered with prefixes: ST01, ST02, ST03 to ST10) during the reporting period (about 950 forms in total) (nearly 90% from ST01 to ST05) were automatically processed (validated and stored), using the new JAVA “automated data processing framework”. Currently, the Secretariat is extending this framework to process the remainder of the statistical forms (ST06 under active testing; ST07 through ST10 planned) and also the conventional tagging forms in the future (as soon as database is redesigned and electronic forms TG01, TG02 and TG03 are properly adapted).

Only four flag CPCs have not used the most recent SCRS forms (version: 2017) to report 2016 data. In all cases these CPCs promptly replaced the older forms by the 2017 version. This rule is crucial for a timely and effective data provision to the SCRS and the Commission. Thus, the Secretariat reiterates to the CPCs the Commission’s requirement of using the **MOST RECENT** standard electronic forms (up-to-date SCRS requirements) for data submission.

The overall reporting status for 2016, shows that 85% of the 74 flag CPCs (51 with catches: 69%; 12 with no fishing activity: 16%) have reported fisheries and biological information for 2016. No information of any kind was received during the reporting period by 15% of the flag CPCs (10 flags: Brazil, Cabo Verde, EU-Denmark, EU-Lithuania, Gabon, Guinea Bissau, Guinea (Rep. of), Honduras, Mauritania, Sierra Leone), being Brazil and Cabo Verde the ones with the most important recent historical catches.

1.1 Task I

The two datasets of Task I statistics (T1FC fleet characteristics; T1NC nominal catches) provide yearly based global information on (a) fishing capacity (using form ST01-T1FC), and (b) total catches by species (using form ST02-T1NC), being both forms mandatory for all CPCs. The Secretariat reminds that for T1NC, the statistical sampling areas (maps: www.iccat.int/Data/ICCAT_maps.pdf) are now mandatory (being optional the “old” Task I area codes without geographical boundaries).

1.1.1 Fleet characteristics (T1FC)

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

This new structure (adopted in 2015) allows to collect more complete and detailed information on effective fishing capacity, fleet structure, and optionally (except for the eastern Atlantic bluefin stock), yearly based and gear independent nominal effort (fishing days). The “optional” condition of reporting the nominal effort (only about 50% of the flag CPCs are now reporting fishing days) makes it impossible to obtain overall effort indicators and can compromise valid estimations of total fishing capacity. This is because, the fishing days (in both the Atlantic and Mediterranean regions), is the unique indicator that allows to differentiate inactive vessels from vessels that effectively fished in a given year in the ICCAT Convention area. By making this field obligatory (as for 2014 data), ICCAT will drastically improve the quality and the potential utilization of this information.

The T1FC Report Card for 2016 is presented in **Table 1**. For the third consecutive year (2014 to 2016) T1FC was requested on an individual vessel basis, in line with the ICCAT vessel record requirements of the Commission (now with the same 11 authorisation lists), which facilitates the cross-validation process. The Secretariat reminds that, this information is also used by the Commission (fulfils the requirements under Rec. 15-08, which collects previous year vessel activity under some ICCAT fisheries (BFT-E, tropical species, and, SWO-M). Preliminary summary tables of T1FC were published in Section 6 of the ICCAT Statistical Bulletin (www.iccat.int/sbull/SB43-2-2017/s6.html).

The overall reporting ratio of ST01 for 2016 increased slightly to 72% (53 flag CPCs), with 6 flag CPCs having late submissions. Corrections were made to the information reported by 2 flag CPCs, and 13 invalid forms (no corrections possible) are waiting for a complete revision. The total number of vessels reported as being actively fishing in the ICCAT Convention area (all fisheries) between 2014 and 2016 (preliminary values, and after eliminating possible duplicates), amounted to around 13,000, 12,000 and 7,000 vessels, respectively (2016 still preliminary and incomplete). The vessel size (length overall) ranged from 4 to 220 meters (including the small scale vessels reported in sub-form ST01B by five flag CPCs). About 15% of the vessels reported in T1FC were not found in the ICCAT vessel record (with about 50,900 vessels registered). Some cases could be related to errors in vessel characteristics (as seen in 2014 and 2015).

1.1.2 Nominal catch (T1NC)

Task I nominal catch data (T1NC) which contains landings and discards by species, stock, gear, fleet and year (all in live weight), is a “key” dataset used in all the stock assessments. Thus completeness and timely availability datasets are essential for the SCRS studies. The T1NC (form ST02-T1NC) compiles fishery statistics using two sub-forms. Sub-form ST02A, compiles positive catches (separating landings, dead discards, and live discards). Sub-form ST02B, compiles a “zero” catch matrix (by major species/stock and gears) of active gears (positive probabilities of catching species) that have operated within a year. This approach, resolved by the Commission (Res. 15-09), has greatly normalised and simplified the “zero” catch reporting obligation. Only one “zero” is now required per major species/stock and gear (active only) combination.

The T1NC Report Card for 2016 is presented in **Table 2**. It contains only the CPCs reported data (not the SCRS estimations) in both sub-forms (positive catches and “zero” catches). A summary of the “zero” catches reported by flag CPCs and major species/stocks is presented in **Table 14**. All the T1NC datasets received from 63 flag CPCs (85% reporting ratio), including the 6 flag CPCs with late-reports, was processed and presented to the SCRS. This includes some datasets corrected by the Secretariat (orange cells, marked for revision) associated to 9 flag CPCs. Only 11 flag CPCs (15%), have not yet reported this information. The total T1NC nominal catches (all species, gears, and fleets) reported (736,800 t) surpasses by about 7% the average of the last five years (685,600 t), noting that two important flag CPCs have not yet reported T1NC statistics.

1.2 Task II

Task II statistics (catch-effort and size information) are more detailed in terms of time (month) and area (1x1, 5x5, or, sampling areas), and often they reflect a partial coverage of the total production (Task I catches). Task II information is the main source of data used by the Secretariat to estimate important datasets (CATDIS, EFFDIS, CAS, and CAA by species) used by the SCRS and the Commission. ICCAT CPCs must report three types of Task II information under their respective electronic forms:

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

Alternatively, using any of the special agreed formats convened by the Secretariat and a particular ICCAT CPC. There is also a special form (ST06-T2FM) used to report bluefin tuna harvested on farming facilities. These datasets which have been compiled can be considered a special type of Task II size information. However, this information is treated separately (given the growth on the farms) and not used directly in stock assessments.

Frequently, confusion arises with the CAS acronym used in the two cases. To refer to the overall species based catch-at-size estimations (CAS) made by the Secretariat (all flags all years) and used in the stock assessments, and, the CPC based catch-at-size estimations (CAS, also identified by T2CS) reported in form ST05-CAS. To avoid misunderstandings and nomenclature conflicts, the Secretariat recommends that form “ST05-CAS” be renamed to “ST05-T2CS”. In this report, the acronym “T2CS” is used to refer to both the dataset CAS/T2CS and the ST05-CAS/T2CS form.

1.2.1 Catch and effort

The T2CE Report Card for 2016 is presented in **Table 3**. With the exception of 9 forms (invalid and requiring revisions), all the T2CE information received was duly processed. A total of 56 flag CPCs (76% reporting ratio), including 7 late-reporting flag CPCs, have reported T2CE. No information was yet submitted by 20 flag CPCs.

All the information stored, arrived on a monthly basis, and the majority of it included the geographical resolution required by the SCRS (1x1 or better for surface fisheries, and, 5x5 or better for longline fisheries). The number of datasets reported with the exact geographical location (Latitude/Longitude) continues its slow increasing trend. The number of species reported in T2CE datasets has also increased lately, in particular the pelagic shark species. This tendency to report more detailed and complete T2CE has been continuous in the most recent years. The T2CE datasets without information on effort were not integrated into ICCAT-DB, and requests for revision are planned.

The Secretariat has an ongoing T2CE data recovery task (over the last 6 years), aiming to complete identified gaps, and to replace (explicit CPC data requests) “poor” datasets by the ones recommended by the SCRS (effort completed, by month, and, 5x5 for longline gears/1x1 for surface gears). This task should continue in the future, and the Secretariat recommends a more active collaboration of CPC scientists and Statistical Correspondents.

An important part of the Secretariat estimations (CATDIS, 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) non-standard effort types for certain gears (e.g.: for longline “hooks” is the standard); b) incomplete/partial species catch composition; c) double counting of fishing effort (same effort reported several times in different forms for the same gear, often linked to case (b) deficiencies). There is no simple way to merge two T2CE related datasets (same fleet/gear/year), in particular the effort quantities, with partial species catch compositions and sometimes with different geographical stratification. The Secretariat recalls that, as recommended by the SCRS several years ago, T2CE statistics should always be reported with the most complete (as much as possible) species catch composition, with total independence of the SCRS meeting requiring T2CE information.

1.2.2 Size information

The Task II size data Report Card for 2016 is presented in **Table 4**. This report card has also merged the T2CS (only for the six mandatory species) datasets (this point forward, T2SZ refers to both size datasets: T2SZ and T2CS). However, it does not yet contain the bluefin tuna size samples included in form ST06-T2FM, neither the BFT stereoscopic camera measurements. The main reason has to do with the fact that currently, neither of the two datasets have all the required conditions (formats, databases, forms, import/validation code, etc.) to be merged in the Report Card automatic generation process. The inclusion of these two datasets in the T2SZ Report Card is made by hand (after check and merging all the datasets arrived in common structures).

A total of 52 flag CPCs (70% reporting ratio), including 5 CPCs with submissions after the deadline, have reported T2SZ data. With the exception of 43 forms (35 ST04 forms and 8 ST05 forms) all the T2SZ forms passing filter 1 (no corrections made) were validated and stored in ICCAT-DB. Some of the pending T2SZ forms can be corrected (more green cells will appear) if the sufficient time is available. The submission of T2SZ information is pending from 22 CPCs.

The Secretariat noted a reasonable improvement in the time resolution (except the datasets from two CPCs, which all arrived stratified by month), and in the use of smaller geographical grids (nothing reported in 10x20 and 20x20 squares). These improvements respond somehow to the 2016 SCRS discussions (Species Groups, and Sub. Com. on Statistics) involving the need to improve the detail and harmonise all the Task II datasets. Among others, those discussions focused on two important aspects: i) The need to adopt a common and unique time resolution (month); ii) The need to reduce the available options on geographical grids (drop large grids: 10x20 rectangles, 20x20 squares), noting that sampling areas should be kept for biological port sampling. This discussion was postponed to 2017 for a final deliberation. Given the improvements noted during the last two years, the Secretariat recommends to adopt the “month” as the unique time resolution in all Task II datasets, and, for T2SZ/T2CS to eliminate

large grids (10x20 and 20x20) and limit the geographical stratification to smaller grids (1x1, 5x5, 5x10, and, 10x10) and the ICCAT Sampling Areas for port sampling. The size/weight class bins reported for 2016 have followed the SCRS recommendation on size structures (1, 2, and, 5 cm) and weight structures (1 kg). Only one CPC has reported information outside (>5 cm) those structures (files under revision).

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 (1996 to 2016), 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 95% of the total cumulative Task I nominal catches over the time period shown.

For the first time, the Secretariat presented (preliminary study, SCRS/2017/P/044) a “scoreboard” on data (Task I and Task II) availability for all the major ICCAT fisheries (1 catalogue per fishery shown in the 27 tables of **Appendix 1**). Each catalogue, containing a given set of years (21 chosen), is scored with a function that takes into account:

- i. The importance of each fleet component (flag/gear combination) in the total catches of all those years (only the fisheries that cover about 95% of the overall catches are considered), and,
- ii. The availability of various Task II datasets (T2CE, T2SZ, and T2CS whenever required) within each year and across all the period considered.

This quantitative score (real numbers between 0 and 10) concentrates in a unique value the entire catalogue of a given fishery. The scoreboard with preliminary results is presented on the first page of **Appendix 1**. This ongoing study (search of score functions to systematically quantify data availability) should continue during 2018 as recommended by the SCRS.

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 251 releases 72 recoveries made in late 2016 and during 2017.

1.3.2 Conventional tags

During 2016-2017, several Contracting Parties have reported the tagging of 2,563 fish with conventional ICCAT tags, and 386 recoveries (**Table 6**).

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 2016 to September 2017, the Secretariat distributed 3,425 conventional tags, primarily under the tagging projects of the ICCAT GBYP and to various scientific institutions (**Table 7**).

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

The 2016 draw contained several new features including the launch of a new programme mid-year: the Atlantic Ocean Tropical Tuna Tagging Programme (AOTTP), and the category of tropical/small tunas became exclusively small tunas. The reason for this is that the AOTTP will sponsor an additional lottery, in which a cash prize of €500 will be awarded for each large species in the tropicals category (*Thunnus albacares*/YFT, *Thunnus obesus*/BET and *Katsuwonus pelamis*/SKJ). In the first small tunas only draw, all the tags were from the AOTTP.

In the latest ICCAT draw, which was held on 3 October 2016, prizes were awarded for three tags for each of the following categories: small tunas, billfish and sharks, respectively.

The winning tags were as follows:

- Small tunas: The winning tag carried the number ATP006300, and was recovered from an Atlantic black skipjack (*Euthynnus alletteratus*/LTA) by a crew member of a Senegalese vessel, 30 days after it was attached. The tagging was carried out during the Spanish campaigns.
- Billfish: The winning tag carried the number CR008829, and was recovered from a swordfish (*Xiphias gladius*/SWO) by a Spanish citizen, 3609 days after it was attached. The tagging was carried out during the Spanish campaigns.
- Sharks: The winning tag carried the number 352442, and was recovered from a blue shark (*Prionace glauca*/BSH) by a Spanish citizen, 921 days after it was attached. The tagging was carried out during the United States campaigns.

This year, in the temperate tunas category, tags were only recovered from bluefin tuna (*Thunnus thynnus*/BFT). Given that since 2012 this species has its own draw linked to the ICCAT Atlantic Wide Research Programme for Bluefin Tuna (GBYP), this category did not feature.

In 2016, once again, the additional draw took place which is supported by the ICCAT Atlantic Wide Research Programme for Bluefin Tuna (GBYP). This draw carries three prizes, two for €500 and one for €1,000 for recoveries of bluefin tuna tags (*Thunnus thynnus*/BFT) only. The winning tags and their rewards were as follows:

- €1,000: the winning tag carried number BYP072069, and was recovered by a Croatian citizen.
- €500: the winning tag carried the number CR012327, and was recovered by a Maltese citizen.
- €500: the winning tag carried the number BYP074997, and was recovered by a Canadian citizen, 20 days after it was attached. The tagging occurred during the Canadian campaigns.

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

- Bigeye tuna (*Thunnus obesus*/BET): the winning tag carried the number ATP010175, and was recovered by a crew member of a Spanish vessel, 27 days after it was attached. The tagging was carried out during the Spanish campaigns.
- Skipjack (*Katsuwonus pelamis*/SKJ): the winning tag carried the number ATP008596, and was recovered by a crew member of a Spanish vessel, 33 days after it was attached. The tagging was carried out during the Spanish campaigns.
- Yellowfin (*Thunnus albacares*/YFT): the winning tag carried number ATP010669, and was recovered by a crew member of a Spanish vessels, 30 days after it was attached. The tagging was carried out during the Spanish campaigns.

1.4 By-catch

For the third year, the majority of by-catch data was requested to be submitted using the adopted ST09-NatObPrg form. As this form (with 5 sub-forms) is extremely complicated and require substantial work on the part of CPCs to complete, in 2016 the Sub-Committee on Ecosystems and the Sub-Committee on Statistics requested that the forms be simplified. The simplification was carried out and presented at the 2017 meeting of the Sub-Committee on Ecosystems. The Sub-Committee made several suggestions and these forms were revised and presented to the Sub-Committee on Statistics in 2017 who endorsed the forms and suggested they be adopted by the SCRS for use in 2018. For 2017, however, the previous forms are considered to be in vigour and thus all submissions in the reporting period utilised the older more complicated forms. For the reporting period, the Secretariat has received submissions using these forms from 16 CPCs (an increase of 2 from 2016), although several forms were submitted with very little information. In addition, the complexity of the forms resulted in several errors in data submission. For example, form ST09D-CatchDetails specifically states “*Note: All catches/interactions should be reported in this form*”, while form ST09E-Sampling specifically states “*Note: This form is only for the biological samples and morphometric information. If Form ST09D-CatchDetails is blank, this form will be ignored*”. Several CPCs still reported samples in form ST09E, while no catch of these species was reported in form ST09D. In these cases, the information that appears only in ST09E is not included in the following tables as it is unclear if the samples represent the full number of interactions or merely a sub-sample. Information for 67 ICCAT by-catch and shark species were reported using the new forms. The Task I catch data is provided in terms of weight, while ST09-NatObPrg forms allow the submission of data by number as well and so both are provided from this source. **Table 8** provides the ST09-NatObPrg data received during the current reporting period separated by discard fate. Japan and China sent observer information regarding by-catch species but in a non-standard format in addition to their ST09 forms. **Table 9** contains T1NC data for by-catch species. It should be noted that there is overlap between the Task I and observer data numbers. They are not cumulative. Several CPCs have indicated that they provide the catches of by-catch species in their Task I submissions as well as in the ST09 forms.

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, 2015 and 2016. One submission was received in 2017. Task I and II shark data has been submitted in 2017.

1.4.2 Sea Turtles

The Sub-committee on Ecosystems at their 2014 meeting decided to discontinue working on a sea turtle ERA in the short term, however, recognizing that there is a paucity of by-catch data submitted to the ICCAT Secretariat despite repeated requests for this information, the Sub-committee requested that CPCs submit sea turtle by-catch information including data not reported using the ST09 data submission form, and also to estimate total removals using their observer data. All information submitted in 2017 is provided in **Table 10**. 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

The Secretariat received information on seabird interaction and release fate in the ST09-NatObPrg forms, as was requested since 2016 although the response was generally low. The information submitted is provided in **Table 11**.

2. Data recovery and improvement

2.1 Revisions and updates

Several CPCs have submitted historical revisions to T1NC for tuna and tuna-like species, sharks and other by-catch species. Part of those revisions (mostly bluefin tuna and swordfish) were associated with a joint Secretariat staff/CPC scientists work, aiming to reduce the unclassified gears (UNCL; SURF, etc.) weight in

the total catches series of those species. Some gaps were also completed. This joint effort has greatly contributed to the T1NC improvements of both bluefin tuna and swordfish, and, it should be recommended to the other ICCAT species groups. All the T1NC updates are summarised in **Table 12**. The majority of the revisions (with SCRS documents) were already adopted by the Bluefin tuna and Swordfish species groups. There are however, some official T1NC datasets (presented in **Table 13**) that require a SCRS decision.

For T2CE, the largest revision was presented by EU-France with a revision (1991-2015, by month and 1x1 squares) to the mid-water trawl fishery targeting northern Atlantic albacore. All the datasets (**Table 15**) were provisionally integrated into the ICCAT databases with the pending approval of the SCRS. The T2CE datasets recovered under various ICCAT GBYP historical data recovery projects were already included in the ICCAT-DB system. Some additional work ("coding" to check/adapt the datasets to ICCAT structures) is required before making them available to the general public.

The Secretariat has received additional historical revisions of T2SZ datasets. The major revisions were received from the Chinese Taipei longline fishery (1981-2007 on swordfish, and albacore), Canada handline/harpoon fishery (1975-1982, bluefin tuna), Venezuela longline fishery (1987-2016, swordfish), and, Algeria longline (2000-2009, bluefin). The above datasets (detailed in **Table 16**) were adopted by the respective species groups and integrated into ICCAT-DB. The approval of the SCRS is pending for some.

2.2 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 Turkey. With regard to Rec. 11-08, par. 4, plans for improving data collection for sharks on a species specific level, Turkey provided information during the reporting period. Chinese Taipei provided historic observer information in the ST09-NatObPrg forms for 2014 and 2015. Information on alternative monitoring systems (S11) was provided by Morocco, and Tunisia.

3. ICCAT databases

The ICCAT database information system (ICCAT-DB) is an integrated system that uses a relational database management system (RDBMS) to manage all the structured information (30 databases) received by the Secretariat. The RDBMS adopted was the MS-SQL 2008R2 server. There are various frontend components (client applications developed mostly with Java technologies, SQL scripts, and, some residual VBA tools). Part of these frontend components are used to interact with the information (validation, transformation, processing, statistical analysis, data mining, standard outputs, etc.) and for data dissemination (web, ICCAT publications, meetings, etc.). The RDBMS migration task is ongoing by the Secretariat (from 2008R2 to version 2016) and is expected to be finalised during 2017. The software licences were already purchased.

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 of regulatory measures requiring data handling) steadily increased the database management related tasks.

The JAVA project had two phases. Phase 1 (Mar/2015 to Feb/2016) finalised with the migration of 12 applications and the development of 2 new databases. It was then extended (phase 2) from April/2016 to July/2017, as recommended by the SCRS, aiming to improve the ICCAT-DB system in general (complement specific parts of the applications developed in phase 1, prototyping a statistical online reporting system, complete the automatic data processing framework, capacity building, etc.). All the documentation associated (database manuals, JAVA code manuals ["javadocs"], user guides, etc.) are being properly merged into the "ICCAT-DB documentation framework". With the 2017 Secretariat workload, very little progress was made as regards this matter. However, as it is now a continuous task (live updates), the Secretariat expects (depending on the 2018 scheduled meetings) to spend more time on the ICCAT-DB documentation, focusing primarily on those databases that will have future updates (mostly changes foreseeing the adaptation to the ICCAT fisheries online reporting system).

The Secretariat will continue the improvement work of various databases (statistics, tagging, and compliance), and also, the ongoing developments (part of it to be deployed in the ICCAT cloud system) on the statistical data online validation/reporting system, web-forms prototyping, web-services (RESTful), and others. The Secretariat is also working on the replacement of the stand-alone MS-ACCESS databases (various limitations) published on the ICCAT website (T2CE: "t2ce.mdb"; T2SZ/CS: "t2sz.mdb"), by SQLite 3.20+ (<https://www.sqlite.org>) databases. The current functionality available in the MS-ACCESS databases should 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 "2017a" to incorporate the required changes of the SCRS (codes, structures, filtering criteria, etc.). The respective databases were updated accordingly.

The automatic data processing framework already reads those five forms (more than a year in production). The Secretariat is currently extending this framework to process the remainder of the statistical forms (ST06 under active testing; ST07 through ST10 planned) and also the conventional tagging forms in the future (as soon as database redesign and electronic forms TG01, TG02 and TG03 are properly adapted). Extending this automatic reading framework to all the "ST" and "TG" form types should occur progressively (2018 and beyond) due to its complexity.

In addition, the Secretariat also expects additional improvements to the ST forms adopted by the SCRS (support for multiple year submissions in form ST01, ST04, and ST05, all the Task II datasets normalised to "month", simplification of the coding system, etc.), and consequently intends to update the forms to version "2018a".

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 June 2017 for the nine major species, aimed to include various historical T2CE catch series recovered during 2016 and 2017 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).

In general, the historical T2CE recoveries before 1980 have been poor. Thus, while there is a plan to produce the CATDIS by month, the quality of T2CE before 1980 (incomplete and aggregated by year/trimester) does not yet allow this improvement. The inclusion in CATDIS estimations of four additional species (SPF: spearfish, BSH: blue shark, SMA: shortfin mako; POR: porbeagle) is also pending due to the lack of sufficient information.

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 2017, namely the CAS and catch-at-age (CAA) matrices of north and south swordfish stocks and eastern-Mediterranean and western bluefin tuna.

3.1.4 Effort distribution (EFFDIS)

An update to the EFFDIS database was requested by the Sub-Committee on Ecosystems in early 2017. The request was made because general updates in the Task I and II data had become available, and particularly because Japanese historical Task II data had been revised. The Secretariat presented an update of the EFFDIS estimations (SCRS/P/2017/032) with the same methodology previously used (Beare *et al.* 2016). EFFDIS data were made available by the ICCAT Secretariat as the number of hooks reported by the CPCs in the Task II 'Catch-and-Effort' data submission (HooksObs) and the estimated total effort (HooksEst) in April 2017. Note that the estimated total effort is obtained by using Task I (nominal catches) and the Task II 'Catch-and-Effort' data. In May, a problem was reported in the data relating to the

raising factors for the USA data. This was investigated by the ICCAT Secretariat and a bug was found in the code, relating to the USA longline data which was rectified. The nomenclature used in the final version of EFFDIS has also caused some confusion and the Sub-Committee recommended that 'HooksObs' be named 'HooksReported'. It was also noted that in certain cases, the catch available in the Task II data is higher than that in Task I. It was agreed that the Task I catches should always be used for the scaling of the effort as it is the official total catch submission and is likely to be more accurate than the Task II catches.

The current model used to estimate total effort is a GAM from the *Poisson* 'family' which models -using Generalized Cross Validation- the frequency of hooks (count data). Dependence on time is estimated using 'harmonics'; and on space using (2D-spline) smooth functions. Currently 'variance' is estimated from the Standard Errors of the GAMs. The Sub-committee recommended using other techniques or strategies to help model-selection (cross validation) and estimate variance (bootstrapping). The code (effdisR) is all written up as a documented R-package, available upon request from the ICCAT Secretariat. The Sub-committee recommended that cross validation of the regression model be conducted. That is because GAMs can over-fit the data. When this happens, the ability of the model to be used as a predicting tool is diminished.

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 and again in 2017 to include additional information pursuant to Rec. [15-01] and subsequently, Rec [16-01 paragraph 23. In 2017, the Secretariat has received submissions from three CPCs, namely Belize, the EU, and Ghana. **Appendix 2** shows the information received during the reporting period.

3.1.6 Supply vessels

Another form (ST07-TropSupVes) addressing Rec. 16-01, par. 23 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 2017, the Secretariat has received information from three CPCs, namely Belize, the EU and Panama.

3.1.7 Port Sampling Programme

Form ST10-PortSamp was created in 2015 to compile data and information collected from the sampling programmes covered under Rec. [16-01]. For the reporting period 2016, submissions were received from six CPCs; Canada, EU-France, EU-Portugal, China, Curaçao and Costa Rica that reported no port sampling programs currently, but scheduled for its implementation in the near future.

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 forms from 15 CPCs for the current reporting period. It is acknowledged that these forms undergo continuous revision based on feedback by the Sub-committee on Statistics as comments have again been provided by the Sub-committee on Ecosystems in 2017. It is again clarified that all observer data, including by-catch information, should be submitted using these forms. 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 has changed, based on the comments and feedback provided by the SCRS, this database has been discontinued, particularly in light of the substantial changes requested this year. A new database and data input applications will need to be developed once the form is stable.

3.3 Other Stereoscopic cameras size sampling

Since 2014, CPCs start reporting size measures of eastern bluefin tuna at the caging transfers using stereo video camera recording systems. 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. 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. In 2016 the SCRS adopted an updated size-weight relationship for bluefin tuna caught ($RWT \text{ (kg)} = 2.8684 \times 10^{-5} \times SFL \text{ (cm)}^2 \times 2.9076$) in the Mediterranean Sea during the months of May and June, to be used in the estimation of biomass catches from the stereoscopic size data.

3.4 Compliance

In recent years, a number of compliance-related measures adopted by the Commission include 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 2017.

3.4.1 ICCAT Vessel record

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 entry into force of more recommendations in 2017 has increased the number of Vessels Registry Lists from 6 to 11 in the ICCAT Record of Vessels. 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 4 years, to about 1% (around ~350 possible duplicates) of the total of nearly 49,900 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], [14-05] and [06-07] 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 and traps (Para. 66 of Rec. [14-04])
- Monthly eastern and western bluefin tuna catch reports by flag (Para. 67 of Rec. [14-04] and Para. 24 of Rec. [14-05], respectively)
- 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])
- Bluefin tuna farming facilities (Para. 9b) of Rec. [06-07])
- Bluefin tuna farming reports (Para. 5 of Rec. [06-07])
- The use of stereoscopic cameras systems in the context of caging operations (Para 83 and Annex 9, 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]).
- 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 2** shows the number of messages received in each 1°x1° rectangle from 17 September 2016 to 13 October 2017 (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 17** summarizes the BCD catches (weight and number) currently available (16 September 2017).

In 2015, both the paper BCD forms and electronic versions were being accepted until the full transition was accomplished. In 2016, with the implementation of Rec. 15-10, the eBCD system become mandatory on 1 May 2016, with some exceptions until 30 June 2016. The substantive provisions of Rec. 11-20 for the paper BCD are applied *mutatis mutandis* to the electronic BCDs.

3.4.5 Bluefin catch reports

Under Recommendation [14-04], bluefin catch reports are sent to the Secretariat. **Table 18** and **19** summarizes the information available from the weekly and monthly catch reports (as of 16 September 2017), 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 20**. Data shown represents data submitted up to 16 September 2017. 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 21** summarises the number of biannual reports (SD: statistical documents; RC: re-export certificates) received from ICCAT CPCs during the reporting period. **Table 22** and **Table 23** compares (swordfish and bigeye, respectively) current Task I nominal catch against trade statistics (SD's and RC's) received during the reporting period.

3.4.8 Transshipments

Recommendation 12-06, (replaced by Rec. 16-15) established a programme to monitor at-sea transshipments by large-scale longliners. The amounts transhipped are reported in **Table 24**. 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.

3.4.10 Bluefin Tuna Farming Operations

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).

3.5 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 2016 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 Observer data

Forms were created in 2011 (Form CP45-ObsProg) to obtain information regarding the type of data collected by CPC national observer programmes. The Secretariat previously 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. In 2017, however, the form was changed substantially to reflect the requirements stipulated in Rec. [16-14]. The form was significantly reduced, changed from a pdf to an Excel form and renamed CP45-NatObPrsInf.xlsx. In 2017 submissions were received from El Salvador, the EU, Ghana, Iceland, Japan, Korea, Libya, Tunisia, Turkey and Venezuela (**Appendix 3**). Curaçao provided information in the older CP45-ObsProg.pdf form, while Mexico provided information in non-standard format.

In accordance with Recommendations 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 had been requested that this data be submitted using forms ST01-T1FC, ST02-T1NC, ST03-T2CE, ST06-T2FM. As such, this information is reported elsewhere in this document although some data has been submitted using the ST09-NatObPrg forms. The EU in particular (Cyprus, France, Greece, Italy, Malta and Portugal and Iceland) provided information from their bluefin tuna observer programmes using the ST09 forms.

3.6 FAD management plans

The *Recommendation by ICCAT on a Multi-Annual Conservation and Management Programme for Tropical Tunas* [Rec. 16-01] states that each year by 31 January, CPCs with purse seine and baitboat vessels fishing for bigeye, yellowfin and skipjack tunas in association with objects that could affect fish aggregation, including FADs, shall submit Management Plans for the use of such aggregating devices by vessels flying their flag to the Executive Secretary. The elaboration of the plan in Annex 6 provides an extensive list of criteria that must be included in the Plan.

Some of the requirements for the Plan are covered by the FAD data collection forms (ST08-FAD). Belize, Curaçao, Ghana and the EU have submitted FAD management plans for the reporting period.

4. Work in Support of the SCRS Intersessional Meetings

4.1 Bluefin tuna data preparatory meeting

The meeting was held in Madrid, Spain, 6-11 March. The major meeting objective was to revise all available data (catch, effort, CPUE, size and tagging) and review of all available life history information, in preparation for the Atlantic stock assessment session in July. The results of several updated analyses and cooperative efforts led by national scientists to gather and analyse data were presented, including the analysis of size data for the main fleets operating in the Atlantic and Mediterranean Sea. A comprehensive work plan on pending task between national scientist and the Secretariat was adopted to be complete prior to the assessment meeting.

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.

4.2 Shortfin mako shark data preparatory meeting

The meeting was held in Madrid, Spain, 28-31 March. The major meeting objective was to revise all available data (catch, effort, CPUE, size and tagging) aiming for the Atlantic stock assessment session in June. The results of several updated analyses and cooperative efforts led by national scientists to gather and analyse data were presented, including the analysis of size data by sex and region for the main fleets operating in the Atlantic and a detailed review of all available life history information. The Shark Research and Data Collection Programme (SRDCP) was also reviewed and revised in light of several budgetary changes.

4.3 Atlantic swordfish data preparatory meeting

The meeting was held in Madrid, Spain (3-7 April). One of the major objectives of the meeting was to revise and improve whenever possible, all the existing fisheries and biological information (catches, catch & effort, CPUE, CATDIS, size samples, catch-at-size, and, conventional tagging) aiming to prepare the swordfish Atlantic stock assessment session in June. The work of Group permitted, among other achievements, to improve the overall catch series fisheries (unclassified gear catches are now residual), correct and recover important size samples of various CPCs, and improve the CPUE indices. A detailed work plan was adopted, scheduling the pending tasks and the intermediate work required by both the Secretariat and the national scientists, aiming to have all the conditions (input files, etc.) ready a few weeks prior to the stock assessment session.

4.4 Small Tunas species group intersessional meeting

The meeting was held at the University of Miami (24-28 April). The issues of substance dealt with were updating the Ecological Risk Assessment (ERA0, reviewing of appropriate approaches for future assessment of small tuna stocks, the status of SMTYP programme to improve collaboration among scientists and how the Atlantic Tropical tuna Tagging Program (AOTTP) could improve knowledge on small tuna populations.

The ERA conducted in 2016 was updated to include gear interactions of small tuna caught in the tuna longline and purse seine fisheries of the Atlantic Ocean. Wahoo and little tunny were the most vulnerable species, confirming previous conclusions of the Group about what stocks should be given high priority. The updated analysis using purse seine provides similar results to the longline results.

A variety of data limited approaches are available and it was agreed that best way to do this is to conduct Management Strategy Evaluation (MSE) to determine the best combination of data, assessment and control measures. MSE can also be used to determine the benefits of improving data collection and the value of new information, including that from the AOTTP. To do this the data rich North Atlantic albacore Operating Model (OM) is being used to simulate data poor time series and the results compared with data rich methods.

The Group reiterated that SMTYP should be a collaborative process, increasingly involving more scientists from all nations with major small tuna fisheries.

4.5 Meeting of the ICCAT Working Group on Stock Assessment Methods

The WGSAM met in Madrid (8-12 May) and the agenda covered a range of topics including intersessional progress made on CPUE standardization (primarily the inclusion of environmental covariates and the revision of the CPUE Table for Species Groups), Management Strategy Evaluation (MSE), and in implementing the Strategic Plan. Other matters included standardising the format of Executive Summaries, the Peer review of stock assessments and the ICCAT Software Catalogue.

An important development was the formation of Study Groups to promote Intersessional work. Study Groups will be identified by WGSAM members and to help address the objectives of the WGSAM as they pertain to the ICCAT Strategic 5 Year Plan. Two Study Groups were formed namely the Northern Albacore and MSE Study Group and the CPUE Standardization Study Group. Outcomes from this Group essential if the SRCS is to make progress on the Strategic Plan included streamlining the current CPUE table in order to reduce unnecessary discussions at future data preparatory meetings and agreement that the Northern

Albacore and MSE Study Group explore alternative candidate output graphics and summaries based on the Northern Albacore and MSE Study Group results, including those used by other RFMOs.

4.6 Albacore species group intersessional meeting (including stock assessment of Mediterranean Albacore)

The Group met in Madrid (5-12 June) in order to perform an assessment of Mediterranean Albacore and review the work done on the North Atlantic Albacore MSE.

A reliable assessment of Mediterranean albacore stock status is hindered by the inexistence (or low quality) of catch, catch-effort and size statistics over time for some important fleets. Although recent fishing mortality levels appear to be below F_{MSY} , and current biomass is approximately at B_{MSY} level unfortunately, due to the limited quantitative information available to the SCRS, there is considerable uncertainty about these results. Therefore catches should not be increased and possibly reduced until abundance trends are confirmed. The precise level of catch would depend on the level of risk the Commission would like to assume. If the downward abundance trends are confirmed, catch levels would need to be further reduced. As a prerequisite of successful assessments of the stock, a complete revision of Task I (aggregated catch, by gear/fleet) and Task II (catch-effort, size) data is recommended, specifically before the year 2000. The Committee believes that the total amount of removals is probably incomplete. To overcome this, the Group continues to recommend that CPCs make additional efforts to participate and be made aware of capacity building funds available for participation in and contributing to working group meetings.

An update of the MSE work conducted for northern albacore and presented at the 2017 WGSAM inter-session meeting was given. The Group agreed to present the MSE results also to the SWGSM whilst acknowledging that diagnostic tests are still being run and that the work will only be considered to have been completely reviewed by the SCRS after the plenary meeting.

4.7 Shortfin mako shark stock assessment session

The meeting was held in Madrid Spain, 12-16 June. The objective of this meeting was to assess the status of the stocks (North and South) of Atlantic shortfin mako shark. The last assessment was conducted in 2012. The populations were assessed using several models, from different types of surplus production models to fully integrated age-structured models. For the first time, projections of stock status were conducted for this species and management advice was provided based on Kobe strategy matrices. The assessment represented a significant step forward in the understanding of shortfin mako populations in the Atlantic Ocean.

4.8 Meeting of the Standing Working Group on Dialogue between Fisheries Scientists and Managers

The meeting was held in Madrid Spain, 29-30 June. The objectives of this meeting were to analyse of how management objectives have been established for priority stocks (tropical tunas, N-ALB, N-SWO and BFT); to inform on which performance indicators have been identified; and to report on the progress toward MSE/HCR development to date. The Secretariat provided an overview of the outcomes of the 2016 Joint Tuna RFMOs Working Group on Management Strategy Evaluation (MSE). Additionally, the Secretariat provided a summary of the work developed during the Joint Meeting of tuna RFMOs on the Implementation of the Ecosystem Approach to Fisheries Management, initiated by ICCAT and supported by the Common Oceans/ABNJ Tuna Project, which brought together scientists from the five t-RFMOs and national experts. The goals of the latter meeting were to (1) establish a sustained dialogue across t-RFMOs on the issues of EAF and its implementation, (2) understand common challenges in its implementation and (3) identify case specific solutions.

4.9 Atlantic swordfish stock assessment session

The meeting was held at the ICCAT Secretariat in Madrid (3-7 July) when both the North and South Atlantic stock were assessed. A peer review of the assessment was also undertaken by an external expert.

The South Atlantic stock was assessed using biomass dynamic state space models to allow for process error. The stock was estimated to be below B_{MSY} and so catches would need to be reduced to ensure that Commission objectives of maintaining the stock at a level that will support MSY.

The northern stock was assessed using both biomass dynamic state space models and SS. Both types of models agreed that overfishing is not occurring and biomass is either higher or very close to B_{MSY} . The results, however, are not entirely comparable with those obtained in the last assessment due to the incorporation of more data sources and updated information.

In 2016 the Commission agreed on a roadmap for the completion of MSE in support of the adoption of a harvest control rule for North Atlantic swordfish. This work started in 2017 and shall be completed by 2019 for a possible adoption of an HCR by the Commission.

4.10 Sub-Committee on Ecosystems intersessional meeting

The Sub-Committee on Ecosystems Intersessional meeting was held in Madrid, 10–14 July. The meeting included discussions on how to continue the progress made on the Ecosystems Approach to Fisheries Management within ICCAT including the outcomes of a joint tuna RFMO meeting held in Rome at the end of 2016. From a by-catch point of view the Secretariat presented a proposed revision to the ST09 observer data collection forms as well as a report card on submission of this data. An update to the assessment of the impact of ICCAT fisheries on sea turtles was presented resulting in a recommendation for sea turtle mitigation. The collaborative work amongst CPC scientists to assess seabird by-catch in the pelagic longline fleets operating in the South Atlantic and Indian Oceans was presented. It was noted this was complimentary to the ongoing work being conducted under the GEF-ABNJ funded Common Oceans Tuna Project. The Sub-committee also noted that several teleost fish species are caught as by-catch but not considered by other species groups and these species were noted for further attention.

4.11 Bluefin tuna stock assessment session

The meeting was held at the ICCAT Secretariat in Madrid (20- 28 July). Both the eastern and western stocks were assessed using a variety of models. In addition to substantial revisions to historical fishery data, new fishery-independent series of relative abundance, and new information on life history, a wide range of estimation models were applied to both stocks, including revised configurations of the virtual population analyses (VPAs), statistical catch-at-length, statistical catch-at-age and other integrated assessment models. Of these, the only models deemed to have progressed enough at the conclusion of the meeting to be considered as the basis of management advice were the VPA applications for the eastern stock and the VPA and Stock Synthesis applications for the western stock.

4.12 Tropical tuna species group intersessional meeting

The meeting was held in Madrid, Spain, 4-8 September 2017. The major meeting objectives were: a) review the current work and results of the AOTTP project up to day and make recommendations for the 2nd phase of this programme (catch, effort, CPUE, size and tagging) and, b) develop a work plan and actions in preparation for the MSE of tropical tuna species taking into consideration the assessment schedule of these species in coming years.

4.13 3rd Meeting of the Ad Hoc Working Group on FADs

The meeting was held in Madrid Spain, 11-12 September. The objectives of this meeting were to report on the work carried out following the recommendations issued by the Commission in 2016, assess the development in FAD-related technology and on the effect of FAD use on fishing mortality of stocks of tropical tunas. The Secretariat reported on the information on FAD provided by CPC's and issues related to the development of a common format to allow CPCs to submit data in a standardised way as required in Rec. 16-01.

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

5. Infrastructure and technology

This year we have improved protection and availability or “business continuity” as a result of considerable improvements in the IT infrastructure of the ICCAT Secretariat i.e. two highly significant solutions in terms of improvement and protection of the IT infrastructure.

5.1 New back solutions implemented

5.1.1 Purchase of a local and remote backup of virtual machines

This solution consists of daily backup of the 23 virtual machines of the Secretariat.

There are two backup destinations.

- Local, housed in an NAS Synology RackStation RS815+, equipped with 4 disks each of 3.7 TB, 10.5 TB in total. This device stores security copies of the last 28 days of the virtual machines. The virtual machines can be recovered as well as specific files and/or directories contained in them.
- Remote, housed in the data processing center (DPC) of the service provider contracted. This service contains a replica of the last 5 backups of the virtual machines. The purpose is to have a copy of the virtual machines in the event of a physical problem with the DPC and/or the ICCAT Secretariat offices. We have technical assistance for startup of the virtual machines in the service provider’s DPC, as well as for user access by the Secretariat.

5.1.2 Contracting of backup for the virtual server of the ICCAT website

The former backup of the ICCAT website server has been replaced by copying and restoring the server files. A new backup service has been contracted for the virtual machine of the server, which will enable restoration should the need arise, for example a management error, malicious code attack, etc. The restoration time, according to the information supplied by the provider, is approximately 2 hours. We receive daily an e-mail with the confirmation and data linked to the backup.

5.2 Purchase of a disk cabinet for the Secretariat’s DPC

It is a NetApp FAS2520 HA (dual controller) storage system. It has 12 SAS disks of 900 GB providing 6.3 TB net. It uses the protocols iSCSI, CIFS and NFS. Each controller has 18 GB of memory, two 10 GB ports compatible with 1 GB, and another two of 1 GB.

This device has enabled independent storage of the Secretariat’s virtual machines from the physical HP hosts where the virtualisation operating system VMWare is installed. This way, in the event of a failure of a physical server, the virtual machines can be changed (manually, for the time being) to another active physical host (pending the necessary memory expansion of the hosts).

Moreover, and as an additional measure to the recently implemented backup solution, this disk cabinet takes snapshots (security copies or images) of the virtual machines, every hour, daily, and the images are weekly. These can be used in the event of damage or corruption of the virtual machines.

The virtual machines of the Secretariat are concentrated in 3 VMWare hosts. All the virtual machines have been migrated from the individual storage of VMWare hosts to the NetApp storage cabinet.

A replica of each virtual machine is being made as an additional protective measure which is stored in the NetApp disk cabinet in the individual storage of each VMWare host. This applies to 18 virtual machines. We will add a replica of the 5 virtual machines of the VMS system.

5.3 Migration of communication lines

5.3.1 Migration of 3 fibre optic lines of 100/10 MB for 300 MB symmetrical lines

The 3 FTTH lines with a downloading speed of 100 MB and an uploading speed of 10 MB have been upgraded to 3 FTTH lines with a symmetrical speed of 300 MB for both data uploading and downloading.

Although the firewall only allows for 100 MB of data traffic, data uploading has improved and the capacity of 300 MB can be used when the firewall is upgraded.

5.3.2 Replacement of the old ADSL line with a 300 MB symmetrical optic fibre line – destination, external backup of virtual machines

This communication line has been migrated to dedicate it to the external backup traffic of the Secretariat's virtual machines. It has been securely configured to enable communication between the ICCAT DPC and that of the service provider.

Although the firewall only allows for speeds of 100 MB, it has been sufficient in supporting this service.

5.4 Software

5.4.1 Upgrade of VMWare virtualisation software from version 5.5 to 6

The operating system has been upgraded of the 3 VMWare hosts that support execution of the Secretariat's virtual machines i.e. two HP Proliant DL 380 servers: Gen 8 and Gen 9.

The operating system VSphere 5.5 Essentials 6 cpu has been migrated to its version 6.

The VCenter software which centrally manages the 3 hosts has also been upgraded to its version 6.

The growth in local virtualisation will be based on the increase in hardware resources of the 3 hosts, as well as improvement in VMWare licensing, which will allow for more functionality and high availability.

5.4.2 Increase in Symantec and Malwarebytes virus protection licenses

Due to the increase in devices, servers and work stations, we have had to purchase another 10 virus and malware protection licenses, making for a total of 80 licenses.

5.4.3 Upgrade of SDL Trados translation software and training for translators

Coinciding with the upgrade of the translators' computers, the SDL Trados Studio 2015 software has been upgraded to the 2017 version.

A course was given, through the manufacturer, on the new features and improvements of this latest version.

5.4.4 Upgrade of ArcGis software from version 10.3 to 10.5

The version of the ArcGis Desktop software has been upgraded from 10.3 to 10.5. The Windows server has also been upgraded to the latest version, Windows Server 2016 Standard.

5.5 Capacity increase of the data server for ownCloud meetings

The storage capacity of the ownCloud server offered by the ownCloud service <https://meetings.iccat.int> has been increased from 50 GB to 100 GB. The reason is because the initial 50 GB are occupied. The provider supplies a weekly security copy and the Secretariat has included the data of this service in its daily backup processes, with 28 days recovery (data of the meetings of the two previous years are also treated as historical information and stored accordingly.)

5.6 Migration and integration of the AOTTP server

The virtual server of the AOTTP programme has been migrated and integrated into the virtualized servers of the ICCAT Secretariat.

5.7 Trials with automatic patching software and server vulnerabilities analysis

Trials have been carried out for patching operating systems and applications on servers using automatic patch searches. Trials have also been carried out for analysis of vulnerabilities on servers. It is intended to study how to begin strengthening servers / services on the Secretariat's local network. The trials have been successful. GFI Languard software was used.

5.8 Cleaning and donation of old hardware and software

Hardware that was old, damaged and/or in disuse, as well as old software has been located and donated. This task has allowed for more space and for the Secretariat to only house the hardware and software that is in use. This is an ongoing task.

5.9 Cloud Computing

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. <http://rscloud.iccat.int> 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 25** 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. Due to the request from the Commission to reduce costs, the Statistical Bulletin 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. Following the SCRS request to reduce the time of publication, the Secretariat adopted the necessary measures to ensure the documents are published in electronic format within a short period after the Sub-committees and Species Group meetings. Accordingly, in 2017 the Secretariat published Volumes 73 (a total of 9 issues) and 74 (2 issues published already) of the ICCAT Collective Volume of Scientific Papers. Due to the request from the Commission to reduce costs, from now on the ICCAT Collective Volume of Scientific Papers will only be published in electronic 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 Secretariat contacted the new ALR editorial team, whom reiterated their willingness to enhance the collaboration with ICCAT and requested a greater involvement of the SCRS in the process of selection, review and publication of the documents, through an Editorial Committee. On the other hand, ALR expressed their willingness to publish a few more ICCAT papers (12-15) on an annual basis. However, in 2016 only 2 papers were selected by the Sub-committees Conveners and Species Group Rapporteurs as of potential interest for publication the ALR. Based on such fact, which precludes ALR to annually have an ICCAT issue, the Secretariat, together with the SCRS Chair, will present an alternative option.

6.3 ICCAT Manual

In 2017, 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 presented at the 2017 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 was able to attend the CWP meeting in 2017.

7.2 Monitoring system for fishery resources (FIRMS)

In 2017, the Secretariat updated the species identification sheets for yellowfin tuna, north and south albacore, east and west sailfish, and Mediterranean swordfish populations which were assessed by the SCRS in 2016.

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 issues 3, 4 and 5 and issue 1 and 2 of Volumes 68 and 69 of the ICCAT Collective Volume of Scientific Papers, respectively.

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.

8. ICCAT Scientific programmes

The activities of the ICCAT Atlantic-Wide Bluefin Research Programme (ICCAT GBYP), the Enhanced Research Programme for Billfish (ERPBB), 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-037, SCI-038, SCI-039, SCI-040 and SCI-041, respectively). 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 1st Joint T-RFMO FAD Working Group Meeting

During the last meeting of the Kobe process Steering Committee, it was also noted that the European Union offered to finance a joint tuna-RFMO meeting and that some additional funding could be obtained from the Common Oceans/ABNJ Tuna Project. Accordingly, during 2016 the tuna-RFMO Secretariats held discussions regarding the possibility of holding a joint tuna RFMO meeting on FAD fishing issues, sometime in 2017. ICCAT was mandated to organize such a meeting, and an agreement was achieved between ICCAT, IOTC and IATTC, to hold the First Joint Tuna-RFMO FAD Working Group meeting in Madrid, 19-21 April 2017. It should be noted that WPCFC has decided not to participate in this meeting. The main objective of the meeting was to promote discussions on tropical tuna FAD fishing and management of relevant issues on an Ocean-wide perspective.

In total, 35 Contracting Parties, namely Belize, Colombia, Costa Rica, Côte D'Ivoire, Ecuador, El Salvador, European Union, Gabon, Ghana, Guatemala, Equatorial Guinea, Honduras, Indonesia, Islamic Republic of Iran, Japan, Kenya, Liberia, Mauritius, Mexico, Mozambique, Nicaragua, Nigeria, Pakistan, Peru, Republic of Maldives, Sao Tomé & Príncipe, Senegal, Somalia, Sri Lanka, Sultanate of Oman, Thailand, Tunisia, U.K. (O.T.), United States and Venezuela. Also in attendance were 8 non-governmental organisations and entities, namely Greenpeace, IPNLF (the International Pole & Line Foundation), ISSF (International Seafood Sustainability Foundation), MSC (Marine Stewardship Council), PEW Charitable Trusts, SFP (Sustainable Fisheries Partnership), TRI MARINE, and WWF (World Wildlife Fund).

9.2 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. It has been noted that the submissions have been made in a diverse range of formats. As such, ISSF agreed in 2015, to look into standardising the data submissions. As such, the data received are still being stored by ICCAT, but have not been made available for use to the SCRS at this stage.

9.3 CITES

In 2017 ICCAT representatives from ICCAT (SCRS Chair and Sharks species group chair) attended a meeting entitled "The Cooperation on implementing CITES for marine species: achievements, lessons learned and future opportunities" that was held in Geneva, Switzerland from the 13-15 March 2017. This continued the beneficial cooperation established between ICCAT and CITES in recent years.

9.4 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. It is envisioned 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.

9.5 FAO- Common Oceans ABNJ Tuna Project

At the 2015 ICCAT commission meeting, it was decided to continue to cooperate with this programme provided that there are benefits to ICCAT. To this end, since the previous SCRS plenary, the ICCAT Secretariat has participated in several ABNJ Common Oceans initiatives. These include participation in the following meetings that were funded or partially funded by the project:

1. Joint tuna RFMO MSE meeting held at the Secretariat office, Madrid (1-3 November 2016)
2. Joint Meeting of tuna RFMOs on the Implementation of the Ecosystem Approach to Fisheries Management, which took place in FAO HQ in Rome, Italy (12-14 December 2016).
3. 1st Regional Seabird By-catch Pre-assessment Workshop held at the Kruger Park, South Africa (23 February – 1 March 2017)
4. Tuna compliance network meeting held in Vigo, Spain (27-31 March 2017)
5. 1st Joint T-RFMO FAD Working Group Meeting, held in Madrid Spain (19-21 April 2017)

In addition, ICCAT has been coordinating a Feasibility study on the development of an online reporting system. This includes both a feasibility study to determine the resources, costs, technologies required to implement an online reporting system, as well as the production of a demo online reporting tool. Due to the requirements of the ABNJ project, this study and demo are generic and could potentially be applied across the tuna RFMOs.

ICCAT also made several proposals to the GEF-ABNJ steering committee for future collaborations. Unfortunately, once again, ICCAT's attempts to increase collaboration with the project were not particularly successful. Nevertheless, proposals were made regarding:

1. Proposal for the 1st meeting of the Technical Working Group on FADs and a 2nd Joint T-RFMO FAD Working Group Meeting
2. Proposed meeting of the tRFMO MSE Working Group (and associated activities)
3. To lead and coordinate an Ecosystem Component: Common oceans ABNJ tuna project, including a follow up meeting to that held in December 2016.
4. Capacity Building Workshops on Compliance issues.

Further information regarding ICCAT's involvement in the GEF-Common Oceans ABNJ Tuna Project are provided in document SCI-094.

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 2014, 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.

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

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

En 2017 se ha creado un fondo financiado en un 80% por la Unión Europea cuya finalidad es desarrollar un proyecto entre los científicos ghaneses y del IRD con el fin de finalizar el desarrollo del software T3+ necesario para el tratamiento global de las estadísticas de Ghana (TRO).

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 2017 the funds have been used as follows:

- Participation at SCRS meetings: 52 scientists from Algeria, Brazil, Côte d'Ivoire, Liberia, Mauritania, Mexico, Morocco, Namibia, Nigeria, São Tomé and Príncipe, Senegal, South-Africa, Tunisia, Uruguay and Venezuela, were funded to attend the SCRS scientific meetings.
- Improvement of statistics: Training course on capacity building of data collection in the semi-industrial, artisanal and recreational fisheries in Liberia and restructuring and recovery of the statistical system in São Tomé and Príncipe (supported by JCAP).

- Support to the SCRS work: At its 2016 meeting, the Commission approved a specific budget to support the SCRS, charged to the ICCAT Working Capital Fund. The activities financed have been the following: the code migration, which started in 2014 with the vessel database, the numerous applications which interact with various databases of the ICCAT-DB system; peer revision and/or expert for the Atlantic swordfish; Shark Research and Data Collection Programme (SRDCP); and Small Tunas Tagging Programme.

11. Major Tasks on statistics planned for 2017

During 2017, the Secretariat undertook an exhaustive work plan in terms of statistical related tasks, aiming to complete all the major SCRS demands and priorities for 2017. A reasonable part of the priority tasks were finalised in a timely manner, and the outcome used by the SCRS during 2017. However, several ongoing priority projects (RDBMS migration to MS-SQL server 2016, ICCAT-DB documentation framework, full revision of the tagging database system, improvements on the GIS system - shape files update, statistical databases deployment on the ICCAT cloud, etc.) have been partially implemented and in some cases postponed for 2018. It is important to note that, those postponed projects had no negative impact on the accomplishments of the SCRS requirements for 2017.

The JAVA project which was initiated in 2015 (two years) was finalised and all the development made (unattended data integration software, web-form prototyping, ICCAT-DB improvements in structure and automation tools, improvement of various applications) was fully incorporated into the ICCAT-DB system. 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. Significantly, a database programming expert was added to the ICCAT Secretariat in late 2017, and therefore these applications will receive the development required to continue their functionality and plan important improvements into the future.

The Secretariat has also begun work on addressing the Commission's request to provide the possibility for online reporting information. The Secretariat has already begun to develop tools to provide this possibility for the statistical data reporting forms. However, to extend this work to all the ICCAT reporting requirements is an extremely large undertaking that requires time and resources not currently available at the Secretariat. The work has been conducted internally within the Secretariat and, to a degree, in collaboration with the GEF-Common Oceans ABNJ Tuna Project, as mentioned in item 9.5 above. The Secretariat is also working with the ICCAT Online Reporting Working Group to ensure the various initiatives are coordinated and planned. The Online Reporting Working Group has primarily corresponded electronically. However, a physical meeting was also attended by members of the Secretariat staff.

12. Secretariat staff and organization

In 2017 Mr. Carlos Mayor joined the scientific staff at the Secretariat as a Data Base Programmer. 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 2016 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 2016 (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 2016 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o no hay flotas activas).

			Deadline (+1 day tolerance) / Fishery												
			2017-08-01												
Status	Party	Flag	ALBM	ALBN	ALBS	BFTF	BFTW	MULTIFISH	NONE-BC	SHARKS	SMTuna	SWOM	SWON	SWOS	TROP
CP	ALBANIA	Albania													
	ALGÉRIE	Algerie				1									
	ANGOLA	Angola													
	BARBADOS	Barbados						1							
	BELIZE	Belize		1	1								1	1	1
	BRAZIL	Brazil													
	CANADA	Canada		1			1		1				1		1
	CAP-VERT	Cape Verde													
	CHINA PR.	China PR			1								1	1	1
	CÔTE D'IVOIRE	Côte d'Ivoire													
	CURAÇAO	Curaçao													-0.2
	EGYPT	Egypt													0
	EL SALVADOR	El Salvador													
	EUROPEAN UNION	EU.Bulgaria					1				1	1			
		EU.Croatia					1						1		
		EU.Cyprus		1			1	1					1		
		EU.Denmark													
		EU.España					1						1		
		EU.France													1
		EU.Germany													
		EU.Greece		1			1		1			1			
		EU.Ireland			-0.2										
		EU.Italy					1								
		EU.Latvia							0						
		EU.Lithuania													
		EU.Malta		1			1						1		
		EU.Netherlands													
		EU.Portugal			1		1								1
		EU.United Kingdom			1		1		1	1	1				
		FR.St Pierre et Miquelon	FR.St Pierre et Miquelon					1						1	
		GABON	Gabon												
		GHANA	Ghana												1
		GUATEMALA	Guatemala												1
		GUINEA BISSAU	Guinea Bissau												
		GUINEA ECUATORIAL	Guinea Ecuatorial												
		GUINÉE REP.	Guinée Rep.												
		HONDURAS	Honduras												
		ICELAND	Iceland				1								
		JAPAN	Japan												1
		KOREA REP.	Korea Rep.				1			1					1
		LIBERIA	Liberia						0						
		LIBYA	Libya	1			1								
		MAROC	Maroc				1				1		1	1	
		MAURITANIA	Mauritania												
		MEXICO	Mexico											1	1
		NAMIBIA	Namibia			1					1				1
		NICARAGUA	Nicaragua												
		NIGERIA	Nigeria												
		NORWAY	Norway				1								
		PANAMA	Panama												
	PHILIPPINES	Philippines													
	RUSSIA	Russian Federation									0				
	S. TOMÉ E PRÍNCIPE	S. Tomé e Príncipe									1			1	
	SENEGAL	Senegal													
	SIERRA LEONE	Sierra Leone													
	SOUTH AFRICA	South Africa			1				1					1	
	St VINCENT & GRENADINES	St. Vincent and Grenadines		1	1					1		1		1	
	SYRIA	Syria													
	TRINIDAD & TOBAGO	Trinidad and Tobago												1	
	TUNISIE	Tunisie				1						1			
	TURKEY	Turkey				1						1			
	UNITED KINGDOM (O.Territories)	UK.Bermuda													
		UK.British Virgin Islands													
		UK.Sta Helena												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
	Costa Rica	Costa Rica						0	0	0					0
	Guyana	Guyana													
	Suriname	Suriname													

NOTES:
 NO FISHING ACTIVITY (flags in green, 12 flags): Bolivia, Costa Rica, FR.St Pierre et Miquelon, Guinea Ecuatorial, Nicaragua, Nigeria, Philippines, Suriname, UK.British Virgin Islands, UK.Turks and Caicos, Uruguay, Vanuatu
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), EU.Germany, EU.Netherlands. and, EU.Latvia.
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, EU.Netherlands, EU.Greece, etc.

Table 2. Task I nominal catch (form ST02-T1NC) submission status for 2016 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 2016 (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 2016 ("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).

			Deadline (+1 day tolerance): 2017-08-01											Small tuna		Sharks (major sp.)		
			Tuna (major sp.)											(any of 14 sp)				
Status	Party	Flag	ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT		BSH	POR	SMA		
CP	ALBANIA	Albania			0													
	ALGÉRIE	Algerie	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	ANGOLA	Angola							-0.2					-0.2				
	BARBADOS	Barbados	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	BELIZE	Belize	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
	BRAZIL	Brazil																
	CANADA	Canada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	CAP-VERT	Cape Verde																
	CHINA PR.	China PR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	CÔTE D'IVOIRE	Côte d'Ivoire	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
	CURAÇAO	Curaçao	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	EGYPT	Egypt			1													
	EL SALVADOR	El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	EUROPEAN UNION	EU.Bulgaria	EU.Bulgaria											-0.2				
		EU.Croatia	EU.Croatia	1	-0.2	1	-0.2	-0.2	-0.2	-0.2	1	-0.2	-0.2	1	-0.2	-0.2	-0.2	
		EU.Cyprus	EU.Cyprus	1	1	1	1	1	1	1	1	1	1	1		1	1	
		EU.Denmark	EU.Denmark															
		EU.España	EU.España	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		EU.France	EU.France	1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
		EU.Germany	EU.Germany											-0.2				
		EU.Greece	EU.Greece	1		1					1			1				
		EU.Ireland	EU.Ireland	1		1					1							
		EU.Italy	EU.Italy	1	1				1					1	1	1		
		EU.Latvia	EU.Latvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EU.Lithuania	EU.Lithuania															
		EU.Malta	EU.Malta	1		1					1			1		1		
		EU.Netherlands	EU.Netherlands			-0.2				-0.2					-0.2			
	EU.Portugal	EU.Portugal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	EU.United Kingdom	EU.United Kingdom	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon																
	GABON	Gabon																
	GHANA	Ghana	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	
	GUATEMALA	Guatemala	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	GUINEA BISSAU	Guinea Bissau																
	GUINEA ECUATORIAL	Guinea Ecuatorial																
	GUINÉE REP.	Guinée Rep.																
	HONDURAS	Honduras																
	ICELAND	Iceland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	JAPAN	Japan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	KOREA REP.	Korea Rep.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	LIBERIA	Liberia	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
	LIBYA	Libya			1													
	MAROC	Maroc	1	-0.2	1	-0.2			-0.2		1		-0.2	-0.2	-0.2	-0.2	1	
	MAURITANIA	Mauritania																
	MEXICO	Mexico	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	NAMIBIA	Namibia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	NICARAGUA	Nicaragua																
	NIGERIA	Nigeria																
	NORWAY	Norway			1						1					1		
	PANAMA	Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PHILIPPINES	Philippines																	
RUSSIA	Russian Federation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
S. TOMÉ E PRINCEPE	S. Tomé e Príncipe	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
SENEGAL	Senegal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
SIERRA LEONE	Sierra Leone																	
SOUTH AFRICA	South Africa	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
St VINCENT & GRENADINES	St. Vincent and Grenadines	1	1					1	1	1	1	1	1	1	1			
SYRIA	Syria			0														
TRINIDAD & TOBAGO	Trinidad and Tobago	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
TUNISIE	Tunisie			0						0			0					
TURKEY	Turkey	1		1						1			1					
UNITED KINGDOM (O.Territories)	UK.Bermuda	1																
	UK.British Virgin Islands																	
	UK.Sta Helena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	UK.Turks and Caicos																	
	U.S.A.	U.S.A.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	URUGUAY	Uruguay																
VANUATU	Vanuatu																	
VENEZUELA	Venezuela	1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2		
NCC	Bolivia	Bolivia																
	Chinese Taipei	Chinese Taipei	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Costa Rica	Costa Rica																
	Guyana	Guyana								0			0					
	Suriname	Suriname																
NCO	Non-contracting parties	Dominica	-0.2	-0.2	-0.2		-0.2	-0.2	-0.2	-0.2		-0.2	-0.2					
		Saint Kitts and Nevis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

NOTES:
 NO FISHING ACTIVITY (flags in green, 12 flags): Bolivia, Costa Rica, FR.St Pierre et Miquelon, Guinea Ecuatorial, Nicaragua, Nigeria, Philippines, Suriname, UK.British Virgin Islands, UK.Turks and Caicos, Uruguay, Vanuatu
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), EU.Germany, EU.Netherlands, and, EU.Latvia.
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, EU.Netherlands, EU.Greece, etc.

Table 3. Task II catch and effort (form ST03-T2CE) submission status for 2016 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 2016 (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 2016 ("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).

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

NOTES:
 NO FISHING ACTIVITY (flags in green, 12 flags): Bolivia, Costa Rica, FR.St Pierre et Miquelon, Guinea Ecuatorial, Nicaragua, Nigeria, Philippines, Suriname, UK.British Virgin Islands, UK.Turks and Caicos, Uruguay, Vanuatu
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), EU.Germany, EU.Netherlands. and, EU.Latvia.
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, EU.Netherlands, EU.Greece, etc.

Table 4. Task II size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2016 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 2016 (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 2016 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o sin muestreo).

			Deadline (+1 day tolerance): 2017-08-01										Small tuna any of 14 s	Sharks (major sp.)		
Status	Party	Flag	ALB	BET	BFT	BUM	SAI	SKJ	SPF	SWO	WHM	YFT		BSH	POR	SMA
CP	ALBANIA	Albania			1											
	ALGÉRIE	Algerie			1											
	ANGOLA	Angola											1			
	BARBADOS	Barbados		1		1					1	1				
	BELIZE	Belize	1													
	BRAZIL	Brazil														
	CANADA	Canada	1	1	1					1	1	1				1
	CAP-VERT	Cape Verde														
	CHINA PR	China PR	1	1	1					1		1		1		
	CÔTE D'IVOIRE	Côte d'Ivoire														
	CURAÇAO	Curaçao	1	1				1				1	1			
	EGYPT	Egypt			1											
	EL SALVADOR	El Salvador		0				0				0	0			
	EUROPEAN UNION	EU.Bulgaria														
		EU.Croatia			1											
		EU.Cyprus	1		1					1						
		EU.Denmark														
		EU.España	1	1	1			1		1		1	1	1		
		EU.France	1	1	1			1				1	1			
		EU.Germany														
		EU.Greece														
		EU.Ireland	1													
		EU.Italy	1		1					1			1			
		EU.Latvia														
		EU.Lithuania														
		EU.Malta	1		1					1			1	1		
		EU.Netherlands														
		EU.Portugal	1	1	1	1	1	1		1	1	1	1	1	1	1
		EU.United Kingdom												1	1	1
	FRANCE (St-Pierre et Miquelon)	FR.St Pierre et Miquelon														
	GABON	Gabon														
	GHANA	Ghana														
	GUATEMALA	Guatemala	1	1				1				1	1			
	GUINEA BISSAU	Guinea Bissau														
	GUINEA ECUATORIAL	Guinea Ecuatorial														
	GUINÉE REP.	Guinée Rep.														
	HONDURAS	Honduras														
	ICELAND	Iceland			1											
	JAPAN	Japan	1	1	1			1		1		1				
	KOREA REP.	Korea Rep.	1	1	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				
	NAMIBIA	Namibia	1	1				1								
	NICARAGUA	Nicaragua														
	NIGERIA	Nigeria														
	NORWAY	Norway			1											
	PANAMA	Panama	0	0				0				0	0			
	PHILIPPINES	Philippines														
	RUSSIA	Russian Federation						0					0			
	S. TOMÉ E PRINCEPE	S. Tomé e Príncipe														
	SENEGAL	Senegal		1		0	0	1				1	1			
	SIERRA LEONE	Sierra Leone														
	SOUTH AFRICA	South Africa	1	1						1		1		1		1
	St VINCENT & GRENADINES	St. Vincent and Grenadines	1													
	SYRIA	Syria			1											
	TRINIDAD and TOBAGO	Trinidad and Tobago		0						0		1				
	TUNISIE	Tunisie			1											
	TURKEY	Turkey			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
	URUGUAY	Uruguay														
	VANUATU	Vanuatu														
	VENEZUELA	Venezuela		1				1		1		1	1			
NCC	Bolivia	Bolivia														
	Chinese Taipei	Chinese Taipei	1	1		1	1	1	1	1	1	1		1		1
	Costa Rica	Costa Rica														
	Guyana	Guyana														
	Suriname	Suriname														

NOTES:

NO FISHING ACTIVITY (flags in green, 12 flags): Bolivia, Costa Rica, FR.St Pierre et Miquelon, Guinea Ecuatorial, Nicaragua, Nigeria, Philippines, Suriname, UK.British Virgin Islands, UK.Turks and Caicos, Uruguay,
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), EU.Germany, EU.Netherlands. and, EU.Latvia.
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, EU.Netherlands, EU.Greece, etc.

Table 5. Consolidated view of the Report Cards for 2016 (Tables 1 to 4, where at least one cell is not empty). The order of priority given to the colours on the consolidation was: orange/yellow/green.
 Tableau 5. Vision consolidée des cartes de déclaration pour 2016 (tableaux 1 à 4, où au moins une cellule n'est pas vide). L'ordre de priorité donné aux couleurs dans la consolidation est : orange/jaune/vert.
 Tabla 5. Visión consolidada de los catálogos de comunicación para 2016 (Tablas 1 a 4, con al menos hay una celda vacía). El orden de prioridad asignado a los colores en la consolidación es: naranja/amarillo/verde.

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

NOTES:

NO FISHING ACTIVITY (flags in green, 12 flags): Bolivia, Costa Rica, FR.St Pierre et Miquelon, Guinea Ecuatorial, Nicaragua, Nigeria, Philippines, Suriname, UK.British Virgin Islands, UK.Turks and Caicos, Uruguay, Vanuatu
 NO TARGETTING ACTIVITIES (some bycatch): Angola (small traps), EU.Germany, EU.Netherlands. and, EU.Latvia.
 ERRORS / INVALID FORMATS: Côte d'Ivoire, EU-France, EU-España, EU.Netherlands, EU.Greece, etc.

Table 6. Summary of the number of tags applied and recovered by flag CPC between 2016-09-17 and 2017-09-08 (flag CPCs that have carried out tagging are indicated in the columns and flag CPCs that have recovered are indicated in the rows). AOTTP tags not included.

Tableau 6. Résumé du nombre de marques apposées et récupérées par CPC de pavillon entre 2016-09-17 et le 2017-09-08 (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). Marques AOTTP non incluses.

Tabla 6. Resumen de número marcas puestas y recuperadas por CPC de pabellón entre 2016-09-17 y el 2017-09-08 (CPC de pabellón que han marcado indicadas en columnas y CPC de pabellón que han recuperado indicados en filas). Marcas AOTTP no incluidas.

	Canada	EU.Germany	EU.España	EU.France	EU.Croatia	EU.Ireland	EU.Italy	EU.Portugal	EU.Slovenia	EU.United Kingdom	Gambia	Japan	Turkey	UK.Sta. Helena	Uruguay	U.S.A.	UNCL.FLEETS	Grand Total
Brasil															2		1	3
Canada	6															5	6	17
EU.Croatia					1				1								8	10
EU.España	4		14			3		1		5		1			2	55	100	185
EU.France			2	1													5	8
EU.Italy			1													1	11	13
EU.Malta			1													2	4	7
EU.Portugal						1	1			2						1	5	10
Japan								1									1	2
UK.Sta. Helena														84				84
U.S.A.																24	10	34
UNCL.FLEETS			2			2								6		3		13
Not recovered	105	8	666	370	12	14	486	84			3		8	240		179	2	2177
Total	115	8	686	371	13	20	487	86	1	7	3	1	8	330	4	270	153	2563

Table 7. Summary of the conventional tags distributed by the Secretariat between 2016-09-17 and 2017-09-08
Tableau 7. Résumé des marques conventionnelles distribuées par le Secrétariat entre le 2016-09-17 et le 2017-09-08.
Tabla 7. Resumen de las marcas convencionales distribuidas por la Secretaría entre 2016-09-17 y el 2017-09-08.

TagAlfa	From	To	Quantity	DateSent	Institution	Principal Investigator	Country
BYP	27101	27275	175	2017-03-16	The Italian Federation Sport Fishing (FIPSAS)	Various/unknown	EU.ITALY
BYP	27276	27325	50	2017-05-24	Universidad de Cádiz (Departamento de Biología)	José Luis Varela Fuentes	EU.ESPAÑA
BYP	27326	27525	200	2017-06-26	IPIMAR-CRIPSUL	Rui Coelho	EU.PORTUGAL
BYP	27526	27550	25	2017-07-28	Institut for Akvatiske Ressourcer	Brian MacKenzie	EU.DENMARK
BYP	27551	27575	25	2017-07-28	Havsfiskelaboratoriet	Massimiliano Cardinale	EU.SWEDEN
BYP	27576	27650	75	2017-08-09	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
BYP	29076	29100	25	2017-03-16	The Italian Federation Sport Fishing (FIPSAS)	Various/unknown	EU.ITALY
BYP	61351	61400	50	2017-03-16	The Italian Federation Sport Fishing (FIPSAS)	Various/unknown	EU.ITALY
BYP	62151	62250	100	2016-09-23	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
BYP	62251	63000	750	2017-03-16	The Italian Federation Sport Fishing (FIPSAS)	Various/unknown	EU.ITALY
BYP	63001	63600	600	2017-05-11	Government of Canada (Fisheries and Oceans)	Alex Dalton	CANADA
BYP	75576	75600	25	2016-11-09	Portuguese Ocean and Atmosphere Institute (IPMA)	Rui Coelho	EU.PORTUGAL
BYP	76801	76900	100	2016-09-23	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY
BYP	76901	76925	25	2016-11-09	Portuguese Ocean and Atmosphere Institute (IPMA)	Rui Coelho	EU.PORTUGAL
BYP	76926	77525	600	2017-05-11	Government of Canada (Fisheries and Oceans)	Alex Dalton	CANADA
BYP	77526	77600	75	2017-08-09	Marine Institute	Niall Ó Maoiléidigh	EU.IRELAND
SEC	10500	10999	500	2017-03-28	DINARA-Dirección Nacional de Recursos Acuáticos	Andrés Domingo	URUGUAY
SEC	11000	11024	25	2017-06-20	APR - Alleanza Pescatori Ricreativi	Laura Pisano	EU.ITALY

Tableau 8. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de prise accessoire (rejets y compris) par CPC au titre de 2016. Les valeurs sont exprimées en kg et nombre.
Table 8. Información de 2016 sobre especies de captura fortuita (descartes incluidos) proporcionada por las CPC en el formulario ST09-NatObProg. Los valores están expresados en kg y en número.

[illegible]

Table 9. Information on landings of by-catch species (T1NC) by CPCs for 2016. Values are in t.
 Tableau 9. Informations fournies sur les débarquements (T1NC) d'espèces accessoires, par CPC, pour 2016.
 Tabla 9. Información facilitada sobre desembarques (T1NC) de especies de captura fortuita por CPC para 2016. Los valores están expresados en t.

			CP																										NCC		NCO																							
			Angola	Barbados	Belize	Canada	China PR	Côte d'Ivoire	El Salvador	EU España	EU France	EU Italy	EU Malta	EU Netherlands	EU Portugal	EU United Kingdom	Ghana	Japan	Korea Rep.	Maroc	Mexico	Namibia	Norway	S. Tomé e Príncipe	Senegal	South Africa	St. Vincent and Grenadines	Trinidad and Tobago	U.S.A.	UKSta Helena	Venezuela	Chinese Taipei	Guyana	Dominica																				
SpeciesGrp	ScieName	Species																																																				
3-Tuna (other)	Aphanopus carbo	BSF																																																				
	Gasterochisma melampus	BUK																																																				
	Istiophoridae	BIL			0.05			2.61		1.12	6.76											2.53			167.00			0.17				48.42																						
	Lepidocybium flavobrunneum	LEC		0.45			347.41																																															
	Lepidopus caudatus	SFS																																																				
	Makaira indica	BLM																																																				
	Ruvettus pretiosus	OIL		1.15			7.50		0.64												18.80				0.78		2.63					3.68																						
	Scomber japonicus	MAS																																																				
	Scombroidei	TUX	0.63										4680.56																				1.43	0.08																				
	Tetrapturus angustirostris	SSP		6.02				0.06																																														
	Tetrapturus audax	MLS																																																				
	Tetrapturus belone	MSP																																																				
	Tetrapturus georgii	RSP																																																				
	Thunnini	TUN																																																				
	Thunnus maccoyii	SBF																											2484.10																									
	Thunnus spp	TUS																																																				
4-Sharks (major)	Isurus oxyrinchus	SMA	2.87	14.48	83.18	7.36	13.23	2456.55	2.62					656.93			152.11	19.62	1050.00	3.58	798.80			7.61	338.55		0.81	300.06	0.08	6.61	102.78																							
	Lamna nasus	POR			5.14					1.06							3.22	0.00	0.70				6.33					5.75																										
	Prionace glauca	BSH	5.67	173.11	16.03	57.77	9.28	39184.52	352.09	17.86	3.06			13428.23	16.76	436.00	6373.86	262.90		0.25	2774.90		183.00	17.99	355.91	135.56	1.58	73.27	115.53	2278.34																								
6-Other Species	Aluterus schoepfii	AWI																																																		0.03		
	Ballistidae	TRI																													0.05																							2.01
	Belone belone	GAR																															77.60		0.61		0.22																	
	Belonidae	BEN																																																			8.51	
	Brama brama	POA																																																				
	Caranx crysos	RUB																																																		3.96		
	Caranx hippos	CVJ																																																			18.53	
	Elagatis bipinnulata	RRU																																																		11.56		
	Exocoetidae	FLY																																																			2.72	
	Lichia amia	LEE																																	61.62		10.81																	
	Mola mola	MOX																																																				
	Mola spp	MOP																																																				
	Naucrates ductor	NAU																																																				
	Scomberesox saurus	SAU																																																				
	Seriola dumerili	AMB																																																			0.10	
	Seriola rivoliana	YTL																																																				5.19
	Sphyaena barracuda	GBA																																																			4.12	
	Sphyaenidae	BAZ																																																				3.18
	Trachurus mediterraneus	HMM																																																				
	Uraspis secunda	USE																																																				

Table 10. Information provided in form ST09-NatObProg on sea turtle species (including discards) by CPCs for 2016. Values are in kgs and numbers.
 Tableau 10. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de tortues marines (rejets y compris) par CPC au titre de 2016. Les valeurs sont exprimées en kg et nombre.
 Table 10. Información de 2016 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.

			Catches (Number [n] /weight [kg]) [DL and DD always in Number [n]]																																												
			CAN				CUW				EUESP				EUFRA				EUITA				EUPRT				JPN				KOR				TAI				USA				VEN				
Common Name	Species Code	Scientific name	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)	n	kg	DL(n)	DD(n)					
Green turtle	TUG	Chelonia mydas								4								4																													
Hawksbill turtle	TTH	Eretmochelys imbricata																9																													
Kemp's ridley turtle	LKY	Lepidochelys kempii																6																													
Leatherback turtle	DKK	Dermochelys coriacea	8	1920	8	0				5				2			5						17	16	1	46		46						4	1										1		
Loggerhead turtle	TTL	Caretta caretta	5	174	5	0				51				33			31					4	0	1	3		27	26	1	6	111	6			2	2		0		1	17				1		
Marine turtles nei	TTX	Cheloniidae								4				3			1	40	34	1							7	148	3	3	0		0	0		1		0		0	1						
Olive Ridley turtle	LKV	Lepidochelys olivacea								106				10			274	1					37	27	10									5	20												

Table 11. Information provided in form ST09-NatObProg on seabird species (including discards) by CPCs for 2016. Values are in kgs and numbers.

Tableau 11. Informations saisies dans le formulaire ST09-NatObProg sur les espèces de d'oiseaux marins (rejets y compris) par CPC au titre de 2016. Les valeurs sont exprimées en kg et nombre.

Table 11. Información de 2016 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.

Common Name	Species Code	Scientific name	JPN				KOR				TAI			
			n	kg	DL(n)	DD(n)	n	kg	DL(n)	DD(n)	n	kg	DL(n)	DD(n)
Albatrosses nei	ALZ	Diomedelidae	102	264	13	89	0		0	5				
Antarctic giant petrel	MAI	Macronectes giganteus	19	41		18								
Atlant. yellow-nosed albatross	DCR	Thalassarche chlororhynchos												6
Black-browed albatross	DIM	Thalassarche melanophrys	87	254		87	0		0	17				1
Flesh-footed shearwater	PFC	Puffinus carneipes	1			1								
Great shearwater	PUG	Puffinus gravis	11	19		11	0		0	2				3
Grey petrel	PCI	Procellaria cinerea	35	38		35								
Grey-headed albatross	DIC	Thalassarche chrysostoma	207	554	4	200	0		1	60				
Hall's giant petrel	MAH	Macronectes halli	13	32	1	11								
Light-mantled sooty albatross	PHE	Phoebastria palpebrata	10	27		10								
Sooty albatross	PHU	Phoebastria fusca	13	35		13								
Sooty shearwater	PFG	Puffinus griseus											1	10
Southern royal albatross	DIP	Diomedea epomophora	2	10	1	1								
Spectacled petrel	PCN	Procellaria conspicillata	16	28		16								
Tristan albatross	DBN	Diomedea dabbenena	2	9		2								
Wandering albatross	DIX	Diomedea exulans	12	64	1	11	0		0	2				1
White-chinned petrel	PRO	Procellaria aequinoctialis	10	19		10	0		0	1				

Tabla 12. Revisiones históricas de la captura nominal de Tarea I (t) por pabellón, especie y año, que han sido integradas en el sistema de bases de datos de ICCAT (con un documento SCRS).

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Table 13. 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 13. Prises de T che I (t) par pavillon, esp ce, flottille et ann e, qui n'ont pas  t  saisies dans le syst me de bases de donn es de l'ICCAT pour divers motifs. Ces s ries doivent  tre soumises   l'orientation et approbation du SCRS.
Tabla 13. Capturas de Tarea I (t) por pabell n, especie, flota y a o, que no fueron integradas en el sistema de bases de datos de ICCAT debido a diversas razones. Estas series requieren la orientaci n y aprobaci n del SCRS.

Flag	Species	GearGrp	GearCode	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	2011	2012	Remarks
EU.France	ALB	GN	GILL																						985	2316	3157	3320	1686	1223	1059	931	1118	French ALB T1NC series reported (2016) (much lower than current Task I) Still pending a decision since 2016 (WG-ALB will discard this series)		
		HL	HAND	975	406	22	265	194	119	75	77	112													13		4	3	13	5	18	7				
		TR	TROL	1846	2432	805	683	1397	1612	726	1120	1363	3124	2655	4509	4839	555	1129	751	569	602	323	227	11	196	101	189	22	14	40	44	22	7			
		TW	TRAWP																						236	774	461	1360	851	858	941	1123	1327		414	
		UN	UNCL																						107	384	343	100	134	189	108	585	225		493	
U.S.A.	BFT	HL	HAND									200																							Pending decision (RRFB could have 3 gears) (WG-BFT: postponed until USA revision)	
		HP	HARP									233																								
		RR	RRFB									261																								
	SWO	GN	GILL												8	16	25	12	3	17	23	22												Pending decision (reclassify UNCL to GILL) (WG-SWO: postponed until USA revision)		

Table 14. Flag CPCs who reported "zero" catches in the new Task I nominal catches sub-form ST02B (of ST02-T1NC) for 2016, by major species/stock

Tableau 14. 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 2016, par espèce/stock principal(e).

Tabla 14. CPC del pabellón que han comunicado capturas "cero" en el nuevo subformulario ST02B (del ST02-T1NC) de capturas nominales de Tarea I para 2016, por especie/stock principal.

		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	SPK	SPL	SPZ	
Status	Flag CPC (*)	ALB-M	ALB-N	ALB-S	BET-A	BFT-E	BFT-W	BUM-A	SAI-E	SAI-W	SKJ-E	SKJ-W	SPF-E	SPF-W	SWO-M	SWO-N	SWO-S	WHM-A	YFT-E	YFT-W	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
CP	Barbados	✓		✓		✓	✓		✓		✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓		
	China PR	✓				✓	✓				✓	✓			✓						✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		
	Côte d'Ivoire		✓	✓		✓	✓			✓	✓	✓	✓	✓			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Curaçao	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	El Salvador		✓	✓		✓		✓	✓					✓				✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	EU.Croatia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	EU.Cyprus			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	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			✓			✓			✓				✓				✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Maroc		✓			✓										✓				✓								✓										
	Canada	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Turkey	✓					✓									✓							✓	✓	✓	✓	✓											
	Venezuela		✓	✓			✓	✓		✓		✓		✓		✓		✓		✓			✓	✓	✓	✓	✓	✓	✓	✓					✓		✓	
	Algerie	✓				✓			✓	✓		✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Guatemala	✓	✓				✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	EU.España	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Belize	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	EU.Portugal	✓					✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EU.Latvia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
EU.France			✓	✓	✓			✓			✓		✓		✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓		
South Africa						✓			✓				✓		✓	✓		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Liberia			✓			✓			✓	✓		✓	✓	✓			✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
NCC	Chinese Taipei	✓				✓	✓								✓												✓							✓	✓			
NCO	Saint Kitts and Nevis	✓		✓		✓	✓		✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

* A total of 26 flag CPCs have also reported "zero" catches in the main Task I form (ST02A).

Table 15. Summary of Task II catch & effort historical series updated during 2016 (by flag, gear, time-area stratification and year) and already in the ICCAT-DB system.
 Tableau 15. Résumé des séries historiques de prise et effort de Tâche II mises à jour en 2016 (par pavillon, engin, stratification spatio-temporelle et année) et déjà saisies dans le système ICCAT-DB.
 Tabla 15. Resumen de las series históricas de captura y esfuerzo de Tarea II actualizadas durante 2016 (por pabellón, arte, estratificación espacio-temporal y año) y ya introducidas en el sistema ICCAT-DB.

Flag name	Fleet code	Gear code	Time strata	Geog. strata	Catch metrics	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Remarks
EU.France	EU.FRA-FR	TRAWP	mm	LatLon	LW (kg)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Wating WG-ALB (pending SCRS doc)

Tabla 16. Resumen de las series históricas de información sobre talla de Tarea II actualizadas durante 2016 (número de ejemplares por especie, pabellón, arte, estratificación espacio-temporal) ya en el sistema ICCAT-DB.

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Table 17. Bluefin tuna catches (t) report from the Bluefin Catch Document Program (2015: BCD (old) + E-BCD for Japan; 2016-2017: E-BCD). Updated as of 2017-10-16.
 Tableau 17. Déclaration de capture du thon rouge (t) du programme de documentation des captures de thon rouge (2015 :BCD (ancien) + E-BCD pour Japon ; 2016-2017 :E-BCD). Actualisé au 2017-10-16.
 Tabla 17. Informes de capturas (t) de atún rojo del Programa de documentación de capturas de atún rojo (2015: BCD (viejo) + eBCD para Japón; 2016-2017: e-BCD). Actualizado a 2017-10-16.

			Fishing Flag																		
Fishing year	Year (catch)	Month (catch)	ALBANIA	ALGÉRIE	CANADA	CHINA PR	EGYPT	EU	ICELAND	JAPAN	KOREA REP.	LIBYA	MAROC	MEXICO	NORWAY	SYRIA	TUNISIE	TURKEY	TOTAL		
2015	2015	1						0							2					2	
		2						0							6	0			7		
		3						0							6				7		
		4						120												120	
		5						5866					200	1288					427	7781	
		6	40	370			155	1663					1053	72				40	1248	593	5234
		7			0			5						95						101	
		8			2			12						25						39	
		9			3		44	14						5					12	78	
		10			16			207			920				8				2	1152	
		11			5			20			345								1	371	
		12						7			120									127	
2015 Total			40	370	26	44	155	7915	0	1386	0	1253	1493	14	0	40	1248	1034	15019		
2016	2016	1				0		10												10	
		2						5												5	
		3														0.3				0.31	
		4						3												3	
		5						4304						1579					476	6359	
		6	47	448			99	2403					1368	64				47	1461	839	6778
		7						451						70						521	
		8						487		4				59			0.25			550	
		9						459		2		70		11			42.6		0	585	
		10				54		317			1071	69							1	1512	
		11						122			508								8	637	
		12						204								0.4			0	205	
2016 Total			47	448	0	54	99	8765	6	1578	140	1368	1783	0	44	47	1461	1324	17165		
2017	2017	1				0		28												28	
		2						85												85	
		3						320												320	
		4						216												216	
		5						7110					383	1621					1081	10552	
		6	56	1038			124	3329					1247	336				57	673	1154	8014
		7						562	0.419					144					1	708	
		8						430						7					0	450	
		9						395						33			13		1	466	
		10				3		429			864	93		0		0.7			2	1392	
2017 Total			56	1038	0	3	124	12905	0	864	93	1631	2141	0	51	57	1754	1515	22232		

Table 18. Reported catch (t) of BFT-E according to the Weekly Catch Reports (2017 is incomplete) as of October 12, 2017.
Tableau 18. Prises déclarées (t) de thon rouge de l'Est d'après les rapports hebdomadaires de capture (l'année 2017 est incomplète) au 12 octobre 2017.
Tabla 18. Captura declarada (t) de atún rojo del Este según los informes de captura semanales (2017 está incompleto) a 12 de octubre de 2017.

Catch(t)		Gear Group	LL					PS					BB					GN	HL	TW	TP	OT	UN	MULTIPURPOSE VESSELS					AUX					TOTAL
		class	<=15	>15 - <20	>=20 - <40	>=40	UNK	<=15	>15 - <20	>=20 - <40	>=40	UNK	<=15	>15 - <20	>=20 - <40	>=40	UNK							<=15	>15 - <20	>=20 - <40	>=40	UNK	<=15	>15 - <20	>=20 - <40	>=40	UNK	
Season Year	Reported flag	Fishing Flag																																
2015	Albania	Albania					0		40																								40	
	Algerie	Algerie						305	38																								343	
	China PR	China PR	8		12	25																											45	
	Egypt	Egypt					0		155																								155	
	European Union	EU.Croatia					11	3	20	0	8							15									144	30	136	36	51		453	
		EU.Cyprus	6	0	12	3	1															0											21	
		EU.España	21	5	22	8	2	333	92	507	147	91	2	2	7	2		152		1453	1												2846	
		EU.France	102	24	81	39	20	567	70	1014	371	42						39	173		25					18	5	158	35	19			2802	
		EU.Greece																					91	42	43	15	2						192	
		EU.Italy	68	22	73	31	15	623	181	307	384	212									192												2108	
		EU.Malta	10	4	8	4	2	0	0	131	0	0										5	0	2	1		2			0	0		170	
		EU.Portugal																		255													255	
		Iceland	Iceland	9		5	13																9										36	
		Japan	Japan	33	0	56	1297																										1386	
		Libya	Libya					141		1014																								1155
		Maroc	Maroc								128																							1442
	Norway	Norway																				8											8	
	Syria	Syria					0	0	40																								40	
	Tunisie	Tunisie					125	15	952	28																	7			115	5		1248	
	Turkey	Turkey					193	20	309	550																							1071	
2015 Total			258	55	271	1420	39	1991	381	4791	1645	353	2	2	7	2		207	173	3076	25	157	95	42	45	15	2	171	35	410	77	70	15815	
2016	Albania	Albania					0	0	0																								0	
	Algerie	Algerie					199	6	52	187	6																						450	
	China PR	China PR		28		26																											54	
	Egypt	Egypt					50		0	50																							99	
	European Union	EU.Croatia					13	0	33	2								80									68	14	255	51	1		516	
		EU.Cyprus	26	7	14	9	0														0	0	0	0	0								56	
		EU.España	109	41	132	30	1	236	104	405	161	45	318	81	175	50	2	232		968	36						53	10	44	9		3245		
		EU.France	126	23	107	42	3	773	153	1083	179	153						1	82	211		39				300	0	101	6	14		3397		
		EU.Greece																					78	24	72	32	3						209	
		EU.Italy	130	16	126	36	0	528	253	1021	246																						2589	
		EU.Malta	14	6	27	5		0		91	23												8	2	17	4	0	1		2	0		200	
		EU.Portugal																															316	
		Iceland	Iceland	1	2																		3										6	
		Japan	Japan	406	98	659	317	69																									1548	
		Korea Rep	Korea Rep	36	7	71	47																										161	
		Libya	Libya					405	135	572	255																							1367
	Maroc	Maroc	0				105	50		55								0		1433	128											1772		
	Norway	Norway																			44												44	
	Syria	Syria					40		0																								40	
	Tunisie	Tunisie					325	87	330	247	268																13	14	103	33	41		1461	
	Turkey	Turkey					355	109	505	253	51											42											1315	
2016 Total			848	227	1135	512	73	3029	896	4092	1659	523	318	81	175	50	2	1	394	211	2950	39	253	86	25	89	36	3	436	38	506	99	56	18844
2017	Albania	Albania					0		0																								0	
	Algerie	Algerie					883		155													0											1038	
	Egypt	Egypt					69	27	27																								124	
	European Union	EU.Croatia					46	5	2		1							20									484	28	14		7		607	
		EU.Cyprus	38	0	4	1	0																60										103	
		EU.España	102	3	6	2	1	1292	164		43	23	14	0	2	3	3	309		1299													3267	
		EU.France	235	6	9	7	1	3006	86	134	55	39						64	211		13	5											3870	
		EU.Greece																					146	7	31	9	3						195	
		EU.Italy	172	7	12	16	6	2004	19	437	0																						2951	
		EU.Malta	48	3	2	1	1	146															30	2	1	3		2	1	1	0		240	
		EU.Portugal																															368	
		Iceland	Iceland																				0											0
		Japan	Japan	14		13																												27
		Korea Rep	Korea Rep	38		8	4																											49
		Libya	Libya					541		91	19																							652
		Maroc	Maroc	5		0	0	167	31	23	19								154		1717	3											2120	
	Norway	Norway					31		15												3												50	
	Syria	Syria					57																										57	
	Tunisie	Tunisie					1010	33	336	84																							1685	
	Turkey	Maroc					41	13	29	14																							97	
		Turkey					898	109	424	90																							1521	
2017 Total			652	20	54	30	9	10192	487	1674	325	63	14	0	2	3	3	547	211	3661	13	12	236	8	32	12	3	634	28	82	7	7	19022	

Table 19. Reported catch (t) of BFT (Eastern and Western stocks) according to the Monthly Catch Reports (2017 is incomplete) as of October 12, 2017.
 Tableau 19. Prises déclarées (t) de thon rouge (stocks de l'Est et de l'Ouest) d'après les rapports mensuels de capture (l'année 2017 est incomplète) au 12 octobre 2017.
 Tabla 19. Captura declarada (t) de atún rojo (stocks del Este y del Oeste) según los informes de captura mensuales (2017 está incompleto) a 12 de octubre de 2017.

Catch (t)			Eastern Stock Unit													
Season Year	Fishing Year	Month	Albania	Algerie	China PR	Egypt	European Union	Iceland	Japan	Korea Rep	Libya	Maroc	Norway	Tunisie	Turkey	TOTAL
2015	2015	1					1					0			0	1
		2					25					0	0		0	25
		3					199					0	1		0	201
		4					226					0			0	226
		5		0			5996				0	1288		0	427	7712
		6	40	342		155	1865				1155	72		1248	650	5526
		7					258	2				98			0	358
		8					170	21	0			28	0		0	218
		9					104	13	12			5	7		12	152
		10			45		124	0	1134			8			2	1312
		11					40	0	190						1	231
		12					62	0	50						0	112
2015 Total			40	342	45	155	9070	36	1386		1155	1498	8	1248	1091	16073
2016	2016	1					36					0			0	36
		2					35					0			0	35
		3					282					0	1		0	283
		4					202					0			0	202
		5		0			5534				0	1579			476	7589
		6		450			2692				1367	64		1461	839	6874
		7					660					70			0	730
		8					396	4				59	0		0	460
		9					386	2	24	81					0	492
		10			54		263	0	1314	80					1	1712
		11					79	0	240						8	327
		12					185	0							0	186
2016 Total				450	54		10750	6	1578	161	1367	1772	1	1461	1324	18925
2017	2017	1					28								0	28
		2					84								0	84
		3					318								0	318
		4					218								0	218
		5		0			6670				322	1621		1087	356	10056
		6		1038			3328				1313	336		668	1154	7837
		7					418					144			1	564
		8										7	13		0	21
2017 Total				1038			11065				1635	2108	13	1755	1511	19125

Catch (t)			Western Stock Unit						
Season Year	Fishing Year	Month	Canada	FR.St Pierre et Miquelon	Japan	Mexico	UK.Bermud a	U.S.A.	Grand Total
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	0	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	201
		8	38	0		0		114	152
		9	181		57	0		261	499
		10	191	0	108	0		256	555
		11	36	0	180	0		57	273
		12	1	0		0		5	6
2016 Total			457	0	345	59		1055	1915
2017	2017	1		0		3		16	19
		2		0		2		62	65
		3		0		7		48	55
		4		0		10		6	16
		5		0		0		6	7
		6	2	0		0		28	30
		7	6	0		0		158	164
		8	48	0		0		235	283
		9		0		0			0
2017 Total			56	0		22		561	639

Table 20. Quantity (t) of BFT caged by fishing and farming flag CPCs, between 2015 and 2017, as reported under Rec. [08-05] as of October 12, 2017.

Tableau 20. Volumes (t) de thon rouge mis en cages, par CPC de pavillon de pêche ou CPC de ferme, entre 2015 et 2017, tels que déclarés en vertu de la Rec. 08-05 au 12 octobre 2017.

Tabla 20. Cantidades (t) de atún rojo por CPC del pabellón pesquero o CPC de la granja introducido en jaulas entre 2015 y 2017 tal y como se declararon con arreglo a la Rec. 08-05 a 12 de octubre de 2017.

Caging Wgt (t)		Farming Flag						TOTAL
Farming Year	Fishing Flag	EU.Croatia	EU.España	EU.Malta	Maroc	Tunisie	Turkey	
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	137	1244
	Turkey						1166	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	Albania			47				47
	Algerie			447				447
	EU.España		1550					1550
	EU.France		1279	1265				2544
	EU.Italy			1963				1963
	Libya			1262			98	1360
	Tunisie			825		470	162	1456
	Turkey						1552	1552
	EU.Croatia	432						432
	Syrian Arab Republic						47	47
Unknown/Unclassified flag				219				219
2016 Total		432	2829	6028		470	1859	11618
2017	EU.España		839					839
	EU.France		806					806
	EU.Italy			281				281
	Libya			435			455	890
	Maroc						50	50
	Tunisie					136		136
	Turkey						1783	1783
	EU.Croatia	652						652
	Syrian Arab Republic						57	57
	Unknown/Unclassified flag				1771			1771
Egypt							87	87
2017 Total		652	1645	716	1771	136	2431	7351

Table 21. Bi-annual Statistical Documents (SD) and Re-export Certificates (RC) reported to ICCAT, by species, between 2016-09-01 and 2017-10-16.

Tableau 21. Documents statistiques (SD) et Certificats de réexportation (RC) semestriels déclarés à l'ICCAT, par espèce, entre le 2016-09-01 et le 2017-10-16.

Tabla 21. Documentos estadísticos (DE) y Certificados de reexportación (CR) semestrales comunicados a ICCAT, por especies, entre el 2016-09-01 y el 2017-10-16.

Reporting CPC	Year	Semester	Date reported	BET		SWO		* Other
				SD	RC	SD	RC	
Canada	2016	2	2017-03-17	√		√		
	2017	1	2017-09-22	√		√		
China PR	2016	1	2016-09-30	√	√	√		
		2	2017-03-31	√		√	√	
	2017	1	2017-09-30	√			√	
Chinese Taipei	2016	1	2016-09-23	√		√		
		2	2017-03-21	√	√	√		
	2017	1	2017-09-25			√		
Côte D'Ivoire	2016	1	2016-10-14	√				
		2	2017-03-31	√				
	2017	1	2017-09-13	√				
EU (all flags combined)	2016	1	2016-10-07	√	√	√	√	
		2	2017-03-31	√	√	√	√	
	2017	1	2017-10-09	√	√	√	√	
Japan	2016	1	2016-09-27	√	√	√	√	
		2	2017-03-30	√	√	√	√	
	2017	1	2017-09-26	√	√	√	√	
Korea Rep.	2016	1	2016-10-03	√	√	√	√	
		2	2017-04-07	√	√	√	√	
	2017	1	2017-09-26	√	√	√	√	
Norway	2016	1	2016-09-24	√		√		
		2	2017-03-31	√		√	√	
	2017	1	2017-09-29	√		√		
Senegal	2016	1	2016-09-28					√
		2	2017-03-31					√
	2017	1	2017-10-01					√
Singapore	2016	1	2017-04-11			√	√	
		2	2017-04-11			√	√	
Turkey	2016	1	2016-09-21	√		√		
		2	2017-04-04	√				
	2017	1	2017-08-22	√		√		
U.S.A.	2016	1	2016-09-29	√		√		√
		2	2017-04-01	√		√		√
	2017	1	2017-09-29	√		√		√

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

Table 22. Espadon : Données de la Tâche I (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2009 et 2017.

* Trade data of 2017 only with first semester.

Table 23. Bigeye: Task I (t) versus trade (SDP) in product weight (t), by stock and flag between 2009 and 2017.

Tableau 23. Thon obèse : Données de la Tâche I (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2009 et 2017.

Tabla 23. Patudo: Tarea I (t) frente a estadísticas comerciales (SDP) en peso de producto (t), por stock y pabellón entre 2009 y 2017.

			Task I								Trade (SDP: Statistical Document Program)																	
Stock	Status	Fishing Flag	2009	2010	2011	2012	2013	2014	2015	2016	SD (statistical documents)							RC (re-export certificates)										
			2009	2010	2011	2012	2013	2014	2015	2016	2009	2010	2011	2012	2013	2014	2015	2016	2017*	2009	2010	2011	2012	2013	2014	2015	2016	2017*
A+M	CP	Angola	452	410	320	394	375	372																				
		Barbados	7	12	7	15	11	26	30	19																		
		Belize	246	294	1260	1257	1377	1524	1877	1764		13	26	462	635	631	108	215	462	345								
		Brazil	1189	1151	1799	1400	1433	3475	3561	2823		53	92	17	1	8	9		5									
		Canada	111	103	137	166	197	218	258	171																		
		Cape Verde	606	656	1077	735	1378	2368	2764	1679		16	32	90	269	244				1								
		China PR	4973	5489	3720	3231	2371	2232	4942	5852		4559	5092	3289	2343	2214	2169	2586	6076	2717	21							
		Côte d'Ivoire	790	576	49	602	681	441	12	544					72	60				374	382							
		Curaçao	2465	2747	3488	2950	1998	2357	2573	3598		263	32		518	602			259	857	751							
		El Salvador									992	1450																
		EU.Belgium																	39									
		EU.Cyprus													0													
		EU.España			12216	11483	13316	11012	10162	10878	10058	11469	1016	1252	851	656	622	1495	548	1272	1309							
		EU.France			2463	3450	3901	3948	3278	3602	2583	4566	388	603	721	1763	470	1177	386	840	362							
		EU.Germany														0												
		EU.Greece												0	0													
		EU.Italy														0	0		44									
		EU.Portugal			5605	3682	6920	6128	5345	3869	3135	2187		1		61	77	150	121									
		EU.United Kingdom			32	0										0												
		FR.St Pierre et Miquelon				2			0	0																		
		Ghana			8186	10455	9850	9477	10992	9974	11902	4813	1149	2119	1892	5198	2476	893	197	433	226							
		Guatemala			922	1029	288	273	168	1007	340	1103				68	3											
		Guinea Ecuatorial			50		58		3	10	17																	
		Guinée Conakry											571	72														
		Guinée Rep.			22	402	525	1804	1674	1111																		
		Japan			16395	15205	12306	15390	13397	13603	12391	10426	18	7	48	40	110	76		92								
		Korea Rep.			2134	2646	2762	1908	1151	1039	677	562	1965	2398	1616	1267	1935	528	531	296	361	13						
		Liberia										27																
		Maroc			795	276	300	300	308	300	309	350			0	4		2		0								
		Mexico			1	3	1	1	2	1	2	2																
		Namibia			108	181	289	376	135	240	465	359	9	3	125	194	36		12	3								
		Nigeria				3	1	0																				
		Panama			2490	3085	3531	1736	2853	2341	1289	2022				673	169				131							
		Philippines			1880	1399	1267	532	1323	1964			1775	1650	1357	810	746	2108	434			3						
		Russian Federation			43																							
		S. Tomé e Príncipe			94	97	100	103	107	110	633	421																
		Senegal			1042	858	239	230	646	371	1031	1500	640	382	58	271	493	299	6	474	144							
		South Africa			159	145	153	47	435	332	193	121				0	98	4		36								
		St. Vincent and Grenadines			293	396	38	25	16	30	496	622							349	682	285							
		Sta. Helena											6		17	67	8			42								
		Trinidad and Tobago			56	40	33	33	37	59	77	37				0	0	0										
		Tunisie														3												
		Turkey															1											
		U.S.A.			515	571	722	867	881	859	831	533		18	21	108	11	8	2									
		UK.Bermuda			0	0	0	0	0	0	0																	
UK.Sta Helena			17	11	190	51	19	17	44	77																		
UK.Turks and Caicos							4	2																				
Uruguay			201	23	15	2	30				4																	
Vanuatu			34	42	39	23	9	4																				
Venezuela			229	85	264	98	94	169	132	156																		
NCC		Chinese Taipei	13252	13189	13732	10819	10316	13272	16453	13115	9717	11681	11276	9548	9571	10725	12330	13612	6274	73								
NCO		Guyana							6																			
		Congo														27												
		Dominica								0																		
		Ecuador										44						19										
		Lebanon																										
		Madagascar												0	1													
		Mixed flags (EU tropical)	375	324	257									0														
		Saint Kitts and Nevis							0	4																		
		Sta. Lucia		0	0	0			6																			
		Unknown												94	0	432		620										
		Viet Nam													23													
A+M Total			80447	80521	82954	75934	73207	78178	80082	72375	22164	25503	21840	24662	20637	20183	18058	26198	13287	110								
UNK											14	97		94	441	58	81	263		702	796	1580	3022					
TOTAL			80447	80521	82954	75934	73207	78178	80082	72375	22179	25600	21840	24756	21077	20240	18138	26461	13287	813	796	1580	3022					

* Trade data of 2017 with first semester only.

Table 24. Amounts (t) of various tuna and tuna-like species transshipped at sea as reported under Rec. [06-11] by product type.
 Tableau 24. 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 24. 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.

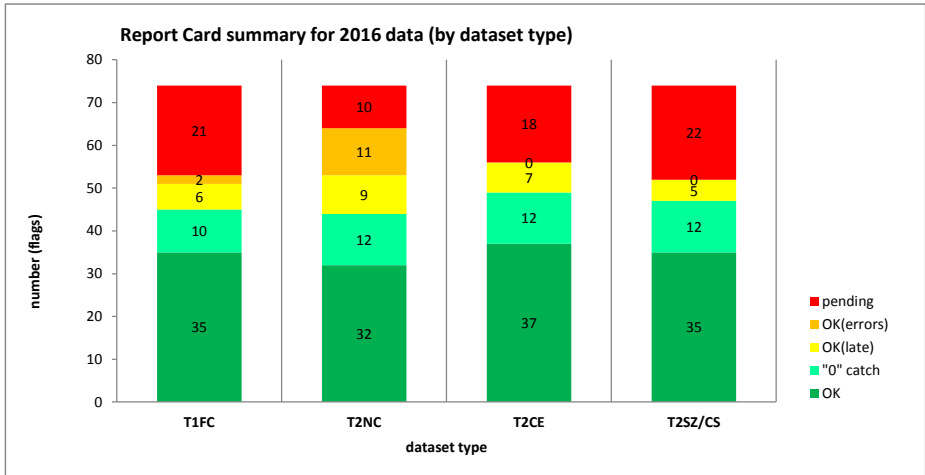
			Product Type (t)										
Year	Fishing Flag	Species Code	Dressed weight	Gilled & gutted	Number	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	TOTAL	
2015	Chinese Taipei	ALB		1.2					6.3			7.5	
		BET	40.4	12917.9								12958.3	
		BIL	4.1									4.1	
		BUM	0.4									0.4	
		OTF	3.6									3.6	
		SWO	221.6	16.3								237.9	
		TUN		16.7								16.7	
		YFT		631.7						1.0		632.7	
	China, P.R.	ALB								48.8			48.8
		BET		4244.1			0.1						4244.2
		BLM	0.7										0.7
		BUM	14.9										14.9
		OIL	1.2										1.2
		OTF	0.4									15.0	15.4
		PXX	1.4										1.4
		SBF		3.5									3.5
		SSM	0.1							0.4			0.5
		SWO	146.7			3.0							149.7
		TUN		17.3									17.3
		YFT		165.9									165.9
		SKH				0.7							0.7
		OPA	1.3										1.3
		YOU		0.0									0.0
	Korea, Republic of	BET		493.1									493.1
		TUN		3.4									3.4
		YFT		16.7									16.7
	Japan	ALB			6.5					1257.1			1263.6
		BET	0.5	7241.9							0.8		7243.2
		BIL	0.8	4.1									4.9
		BLM	1.0	1.7									2.7
		BSH	47.1										47.1
		BUK	114.5										114.5
		BUM	143.0	34.9								2.4	180.4
		COM	1.5							0.7			2.1
		MAK	3.0				2.2		0.0				5.2
		MLS	0.1	2.2									2.3
		OIL	8.5										8.5
		OTF	15.8				3.8		0.1	0.2		33.1	53.0
		PXX	1.6								1.1		2.7
		SAI	8.3										8.3
		SBF		1097.6									1097.6
		SKJ								0.0			0.0
		SMA	1.6				0.2						1.8
		SSM	1.7										1.7
		SSP	1.0										1.0
		SWO	291.4				140.7						432.1
		TUN		41.8								1.6	43.4
		WAH	0.3										0.3
		WHM		0.2									0.2
		YFT		2105.3								0.1	2105.3
		MAW	0.2										0.2
		SKH								2.1			2.1
		OPA	25.7				0.5					0.2	26.3
		BRA									1.4		1.4
		YOU	0.1	0.8									0.8
		DOL									0.2		0.2
	Belize	BET		226.5									226.5
		SWO	29.1										29.1
	St. Vincent and Grenadines	YFT		5.6									5.6
		BET		471.2									471.2
		SWO	3.0										3.0
		YFT		24.3									24.3
2015 Total			1136.4	29792.1		151.0	0.1	2.2	1315.1	3.0	52.4	32452.3	
2016	Chinese Taipei	ALB							100.6			100.6	
		BET		11738.7								11738.7	
		BUM	0.9									0.9	
		OIL	0.3									0.3	
		SAI		0.5								0.5	
		SSP	0.1									0.1	
		SWO	236.1	15.5	0.4							251.9	
		WAH	0.1									0.1	
	China, P.R.	YFT		718.1									718.1
		ALB								82.7			82.7
		BET	1.2	5256.9			0.2			0.1			5258.3
		BUM	24.2										24.2
		OIL	5.0										5.0
		OTF	3.5						0.4				3.9
		SAI	0.5										0.5
		SMA	1.8										1.8
		SSM	2.5										2.5
		SWO	531.6										531.6
		YFT		166.3									166.3
		SKH	4.3										4.3
	OPA	4.9										4.9	
	BLZ	1.8										1.8	
	Korea, Republic of	ALB		1.3						9.7			11.0
		BET		527.1									527.1
		BLM		2.4									2.4
		BSH								10.2			10.2
		BUK	35.2										35.2
		BUM		0.1									0.1
		MAK	4.1										4.1
		MLS	0.0	0.2									0.3
		OIL	1.2										1.2
		OTF										2.1	2.1
		SAI	2.1										2.1
		SBF		93.5									93.5
		SKJ	0.7										0.7
		SPF	0.8										0.8
		SWO	13.8	0.3									14.0
		WAH	3.6										3.6
		YFT		282.1									282.1
		SKH							0.3				0.3
		OPA	0.2										0.2
		BRA								4.1			4.1
DOL								2.6			2.6		
Japan	ALB	7.8	27.0						686.2			721.0	
	BET		5794.2									5794.2	
	BIL	0.6	0.4									1.0	
	BLM	3.1	0.1									3.1	
	BUK	171.0		17.3							4.2	192.4	
	BUM	77.3	31.8		0.6							109.8	
	COM	3.6					48					3.6	

Year	Fishing Flag	Species Code	Product Type (t)									TOTAL
			Dressed weight	Gilled & gutted	Number	Fillet	Live weight	Shark fins	Rounded Weight	Belly meat	Other	
		MAK	0.1				0.8					1.0
		MIX									1.1	1.1
		MLS	0.2	5.7								5.8
		OTF	2.5						0.0			2.9
		SAI	4.8								0.4	4.8
		SBF		946.2								946.2
		SKJ							0.2			0.2
		SMA					1.4					1.4
		SPF	0.2									0.2
		SSM	5.9									5.9
		SSP	3.3									3.3
		SWO	277.2	19.8			131.6					428.6
		TUN			1.3						1.5	2.8
		WAH	0.3									0.3
		YFT	4.7	1466.7								1471.5
		MAW	0.9									0.9
		SKH					3.7				0.1	3.9
		OPA	15.3				0.5					15.8
		DOL	0.5	0.2					2.1			2.8
		BLZ	3.9									3.9
		SFA	0.3									0.3
	Belize	ALB							112.0			112.0
		BET		402.1								402.1
		SWO	27.2									27.2
		YFT		12.2								12.2
	St. Vincent and Grenadines	BET		352.4								352.4
		SWO	14.0									14.0
		YFT		7.8								7.8
		BET		378.2								378.2
	Côte d'Ivoire	SWO	27.8									27.8
		YFT		46.0								46.0
	Senegal	BET		48.9								48.9
		YFT		3.7								3.7
2016 Total			1532.9	28346.3	18.9	138.7	0.2	0.3	1010.7		9.4	31057.3
2017	Chinese Taipei	ALB							2.0			2.0
		BET		5752.5								5752.5
		MIX		266.8								266.8
		MLS		0.2								0.2
		SWO	124.9									124.9
		TUN			0.0							0.0
	China, P.R.	YFT		274.0								274.0
		ALB							100.4			100.4
		BET		3890.5								3890.5
		BLM	0.4									0.4
		BSH	12.1									12.1
		BUM	12.6	11.1								23.6
		MAK	1.8									1.8
		MIX		556.5								556.5
		MLS		0.0								0.0
		OIL	2.0						6.2			8.2
		OTF									5.6	5.6
		SAI	0.2	0.2								0.4
		SSM	0.5	1.3					0.2			1.9
		SWO	206.1	14.3								220.4
		TUN			0.7							0.7
		YFT		208.9								208.9
		SKH	2.5									2.5
		OPA	1.9	0.2								2.1
	Korea, Republic of	ALB	0.1						0.2			0.3
		BET		177.8								177.8
		BUM	2.1	0.2								2.3
		MLS	0.1	0.0								0.1
		OIL	4.6									4.6
		OTF	0.1							4.9	1.4	6.4
		SAI	5.2									5.2
		SKJ		0.0					0.0			0.0
		SWO	9.0									9.0
		YFT		187.4								187.4
	Japan	OPA	1.2									1.2
		BRA							0.3			0.3
		DOL							1.7			1.7
		ALB		1.0					268.4			269.4
		BET		4183.4			2.0					4185.4
		BIL	0.1								9.4	9.5
		BLM	1.2	0.1								1.3
		BSH					2.1					2.1
		BUK	73.2									73.2
		BUM	120.1	40.7			3.8				0.1	164.7
		MAK	1.6				1.1	0.0				2.6
		MIX		683.0			0.6				3.5	687.1
		MLS	1.7	2.7								4.4
		OIL									0.2	0.2
		OTF	12.1							0.8	6.5	19.4
		SAI	1.9									1.9
		SBF		883.3								883.3
		SKJ							0.0			0.0
		SMA	0.0				0.6	0.0				0.6
		SSM	0.9						0.1			1.0
		SSP	0.1									0.1
		SWO	242.0	105.9			111.3					459.2
		TUN									1.5	1.5
		WAH	0.6									0.6
		YFT		985.5								985.5
		MAW	1.5									1.5
		SKH						0.6	0.1			11.1	11.8
		OPA		6.0	0.3								6.3
		DOL		0.3						0.2			0.5
		KGX		0.5									0.5
	Belize	BET		176.0								176.0
		YFT		10.7								10.7
	St. Vincent and Grenadines	BET		235.5								235.5
		YFT		13.8								13.8
	Côte d'Ivoire	BET		237.2								237.2
		SWO	10.8	5.7								16.5
		TUN			0.1							0.1
		YFT		8.1								8.1
	Senegal	BET		112.1								112.1
		SWO	5.7									5.7
		YFT		7.3								7.3
2017 Total			867.5	19034.6	0.9	121.9		0.2	379.6	5.7	39.4	20449.7

Table 25. Volumes published in 2017 within the ICCAT series of periodic publications.
 Tableau 25. Volumes publiés en 2017 dans les séries des publications périodiques de l'ICCAT.
 Tabla 25. Volúmenes publicados en 2017 dentro de las series periódicas de publicaciones de ICCAT.

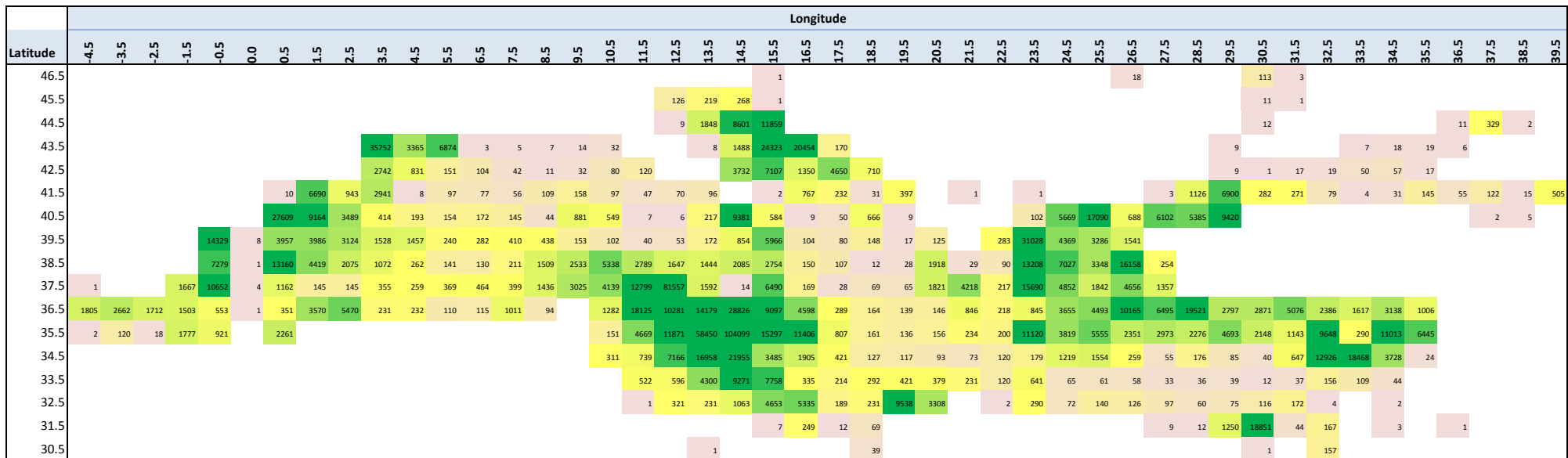
Publication			Period	Format			Content
Name	Vol #	No.		Paper	CD	WEB	
Collect. Vol. Sci. Pap.	73	9	2016			√	Informes de las reuniones intersecciones y los documentos presentados a dichas reuniones
Collect. Vol. Sci. Pap.	74	2	2017			√	Informes de las reuniones intersecciones y los documentos presentados a dichas reuniones
Informe Bienal	1		2016	√		√	Report of the 24 th Regular Commission meeting
	2		2016	√		√	Informe del SCRS
	3		2016			√	Informes anuales
	4		2016			√	Informes de la Secretaría (Investigación y estadísticas, administrativo, financiero, al COC y al PWG)
Boletín estadístico	43(2)		1950-2015			√	Estadísticas ICCAT
Newsletter	25		Feb. 2017			√	Noticias
	26		Sept. 2017			√	

Figure 1. Summary of CPCs reporting status for 2016 data.
 Figure 1. Résumé de la situation de déclaration des CPC pour les données de 2016.
 Figura 1. Resumen del estado de comunicación de las CPC para datos de 2016.



		Dataset type			
Values	Rep. status	T1FC	T2NC	T2CE	T2SZ/CS
number	OK	35	32	37	35
	"0" catch	10	12	12	12
	OK(late)	6	9	7	5
	OK(errors)	2	11	0	0
	pending	21	10	18	22
	TOTAL	74	74	74	74
%	OK	47%	43%	50%	47%
	"0" catch	14%	16%	16%	16%
	OK(late)	8%	12%	9%	7%
	OK(errors)	3%	15%	0%	0%
	pending	28%	14%	24%	30%

Figura 2. Número de señales de VMS recibidas de buques autorizados a pescar atún rojo en el periodo 2016/09/17-2017/10/13. Información agregada por cuadrículas de 1 grado para el mar Mediterráneo. Los datos no consideran las posiciones en puerto (según el algoritmo integrado).



			BLZ						FRA						GHA					
Type of beacon deployed	FAD type	Month	No. Deployed with beacons	Average No. Active beacons followed per vessel	Average No. Deactivated beacons followed per vessel	No. Deployed without beacons	Average No. of active lost FADs	No. Of FADs deployed by support vessels	No. Deployed with beacons	Average No. Active beacons followed per vessel	Average No. Deactivated beacons followed per vessel	No. Deployed without beacons	Average No. of active lost FADs	No. Of FADs deployed by support vessels	No. Deployed with beacons	Average No. Active beacons followed per vessel	Average No. Deactivated beacons followed per vessel	No. Deployed without beacons	Average No. of active lost FADs	No. Of FADs deployed by support vessels
SAT	FADA	5	39.0		2.0	0.0	2.0	0.0												
RDFGPS	FADA	1													300.0	50.0				
		2													500.0	70.0				
		3													1500.0	100.0				
		4													2500.0	190.0				
		5													1600.0	120.0				
		6													3500.0	260.0				
		7													2000.0	150.0				
		8													3000.0	230.0				
		9													2000.0	150.0				
		10													2000.0	150.0				
		11													2000.0	150.0				
		12													1500.0	100.0				
SATES	FADA	1	126.0		7.0		7.0		162.0					0.0						
		2	98.0		11.0		11.0		83.0					11.0						
		3	102.0		9.3		9.3		144.0					32.0						
		4	158.0		7.2		7.2		202.0					0.0						
		5	8.0		1.0		1.0		248.0					51.0						
		6	141.0		6.3		6.3		169.0					0.0						
		7	71.0		4.3		4.3		274.0					0.0						
		8	117.0		7.3		7.3		255.0					0.0						
		9	213.0		3.8		3.8		298.0					16.0						
		10	33.0		3.0		3.0		416.0					152.0						
		11	52.0		6.5		6.5		407.0					168.0						
		12	133.0		3.7		3.7		187.0					7.0						
FADN		9							4.0					0.0						

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

	EU.Malta	EU.Portugal (Mainland)	Ghana	Iceland	Japan	Korea	Tunisia	Turkey	Venezuela	
Start year	2008	2006	2006	NA	1992	2002	2012	2012	2011	
Fisheries monitored (1 or more)	LL	LL, TR	PS	LL	LL	LL	PS	LL	LL, BB, PS	
Coverage	20 % of operational BFT vessels > 15m LOA		5.81	52	30	9 - 10	13.4		100	3.33
Percent Coverage										
Coverage based on	No. of Vessels	Fishing sets	No. of vessels	No. of annual trips	No. of operations	No. of hooks	No. of Vessels	No. of Vessels	No. of Annual trips	
Sample scheme INFO:										
Vessel selection modality	Random	Other	Voluntary	Other	Random	Combination Random + Voluntary	Voluntary	Random	Combination Random + Voluntary	
Nº vessels observed per year		6	10	1	30	4	15	1	15	
Notes		Combination of random + voluntary for LL; Complete (100%) for TR								
Geographical regions:										
AT-NE (Atl- Northeast)		Yes		Yes	Yes	Yes				
AT-NW (Atl- Northwest)					Yes				Yes	
AT-SE		Yes	Yes		Yes	Yes				
AT-SW					Yes					
MD (Med sea)	Yes						Yes	Yes		

Note: El Salvador and Libya stated they currently have no observer programme

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 (1996 to 2016). 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, pêche principale (combinaisons pavillon-engin classées par ordre d'importance) et année (1996 à 2016). Seules les pêcheries les plus importantes (représentant $\pm 97,5\%$ de la prise de Tâche I) sont présentées. Chaque série de données de la Tâche I (DSet= "t1", en tonnes) est représentée par rapport au schéma de disponibilité équivalent de la Tâche II (DSet= "t2"). Le schéma de couleurs de Tâche II présente une concaténation de caractères ("a"= T2CE existe; "b"= T2SZ existe; "c"= 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 (199 a 2016). 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.

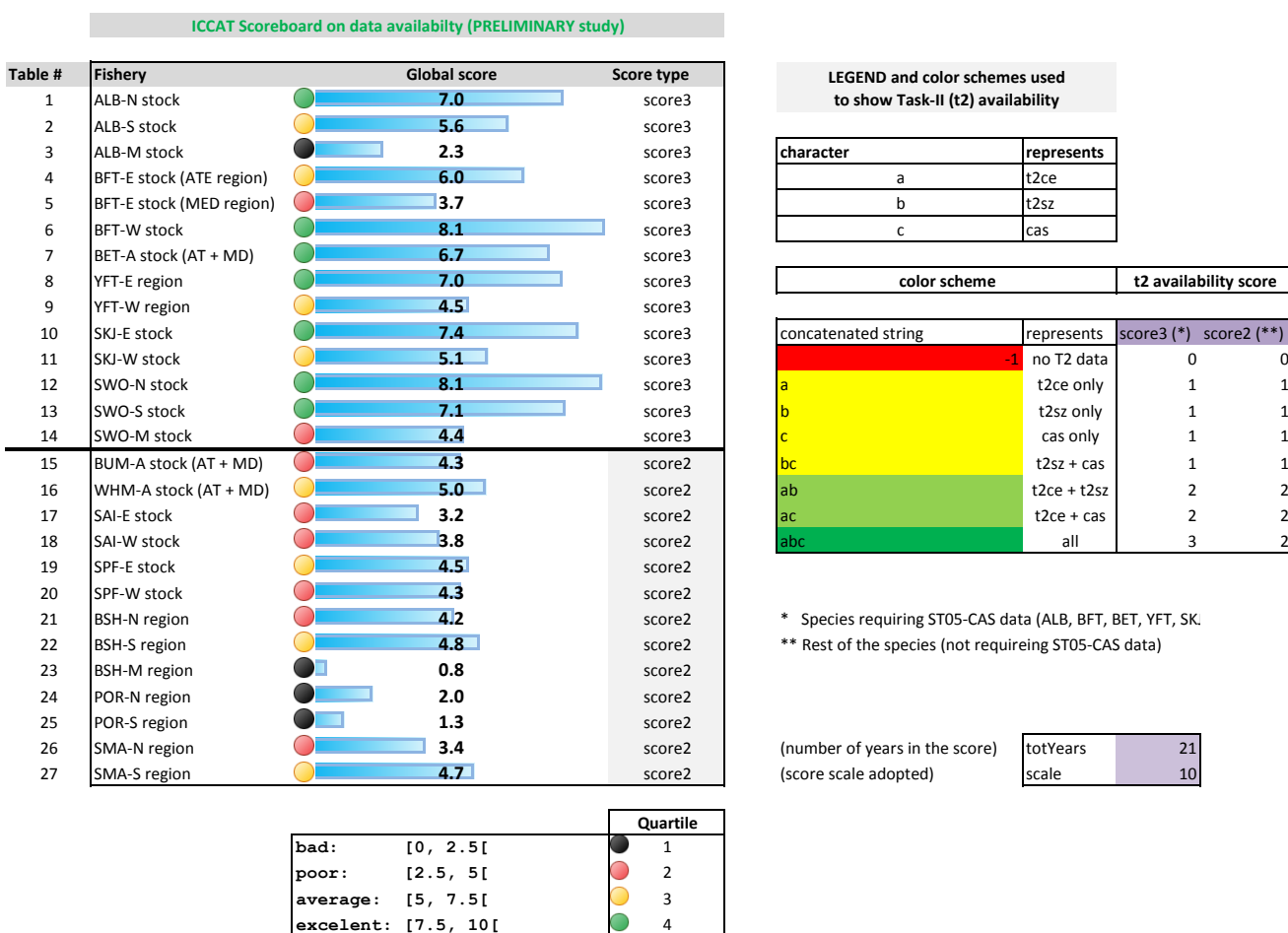


Table1. ALB-N stock

					T1 Total	28803	29023	25746	34551	33124	26253	22741	25567	25960	35318	36989	21991	20483	15375	19509	20039	25680	24633	26652	25442	30141				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
ALB	ATN	CP	EU.España	BB	t1	9640	9401	7346	8448	10774	4929	4712	7325	7893	10067	14182	8375	7403	4940	5841	4676	7753	4473	4740	8353	13394	1	29.7%	30%	
ALB	ATN	CP	EU.España	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	1			
ALB	ATN	CP	EU.España	TR	t1	6649	7864	5834	6829	5013	4245	3976	5193	7477	10165	10277	6089	5233	4437	7009	3564	5833	5864	6651	5596	3559	2	23.0%	53%	
ALB	ATN	CP	EU.España	TR	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	ac	ac	ac	2			
ALB	ATN	CP	EU.France	TW	t1	2570	2874	1178	4723	3466	4740	4275	3252	2194	6743	5878	2842	2806	773	1216	3249	3126	4327	6699	3379	3961	3	13.4%	66%	
ALB	ATN	CP	EU.France	TW	t2	ac	ac	a	ac	ac	ac	ac	ab	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	a	-1	3			
ALB	ATN	NCC	Chinese Taipei	LL	t1	3905	3330	3098	5785	5299	4399	4330	4557	4278	2540	2357	1297	1107	863	1587	1367	1180	2394	947	2857	3134	4	10.9%	77%	
ALB	ATN	NCC	Chinese Taipei	LL	t2	ab	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4			
ALB	ATN	CP	EU.Ireland	TW	t1			57	319	80	634	1100	594	172	258	505	586	1514	1997	785	3595	3551	2231	2485	2390	2337	5	4.5%	82%	
ALB	ATN	CP	EU.Ireland	TW	t2			-1	b	a	a	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	5			
ALB	ATN	CP	EU.Ireland	GN	t1	874	1913	3639	4523	3374	1430															6	2.8%	84%		
ALB	ATN	CP	EU.Ireland	GN	t2	c	c	c	bc	ab	ab															6				
ALB	ATN	CP	EU.Portugal	BB	t1	1622	393	76	281	255	1137	1913	516	224	391	21	80	517	54	179	855	1063	502	2601	912	1061	7	2.6%	87%	
ALB	ATN	CP	EU.Portugal	BB	t2	abc	abc	ab	abc	abc	abc	ab	abc	abc	abc	a	abc	abc	abc	ab	abc	abc	abc	abc	abc	abc	7			
ALB	ATN	CP	Japan	LL	t1	466	414	446	425	688	1126	711	680	893	1336	781	288	402	288	525	336	400	1745	267	276	300	8	2.3%	89%	
ALB	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	8			
ALB	ATN	CP	EU.France	GN	t1	2048	1717	2393	1723	1864	1150	13								2	1		21	7	3	9	2.0%	91%		
ALB	ATN	CP	EU.France	GN	t2	ac	ac	a	ac	ac	ac	a								-1	-1	-1	-1	-1	-1	9				
ALB	ATN	CP	St. Vincent and Grenadines	LL	t1					703	1370	300	1555	82	802	76	263	130	134	174	329	305	286	327	305	291	10	1.3%	93%	
ALB	ATN	CP	St. Vincent and Grenadines	LL	t2					-1	-1	a	a	a	-1	a	a	a	a	a	ab	a	ab	a	ab	ab	10			
ALB	ATN	CP	U.S.A.	RR	t1	309	335	601	90	251	122	323	334	500	356	284	394	125	23	150	171	145	340	137	13	44	11	0.9%	94%	
ALB	ATN	CP	U.S.A.	RR	t2	b	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	11			
ALB	ATN	CP	Venezuela	LL	t1	52	49	16	36	106	35	67	135	116	111	155	146	138	290	242	247	292	274	437	560	587	12	0.7%	94%	
ALB	ATN	CP	Venezuela	LL	t2	ab	b	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	12			
ALB	ATN	CP	U.S.A.	LL	t1	123	184	179	192	146	191	146	106	120	108	103	127	127	158	160	240	261	255	309	229	203	13	0.7%	95%	
ALB	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	13			
ALB	ATN	CP	EU.España	LL	t1	35	30	105	86	214		264	12	10	216	80	118	89	240	111	117	133	159	216	177	123	14	0.5%	95%	
ALB	ATN	CP	EU.España	LL	t2	ab	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	-1	14			
ALB	ATN	CP	Vanuatu	LL	t1									414	507	235	95	20	140	187	196	172	228	195		15	0.4%	96%		
ALB	ATN	CP	Vanuatu	LL	t2									a	a	a		-1	-1	-1	a	ab	ab	a	a		15			
ALB	ATN	CP	Venezuela	PS	t1	263	26	91	55	191	260	93	211	341	63	162	198	70	84	16		21		27		16	0.4%	96%		
ALB	ATN	CP	Venezuela	PS	t2	b	a	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		ab		ab			16			
ALB	ATN	NCO	Cuba	LL	t1							1	322	435	424	527										17	0.3%	97%		
ALB	ATN	NCO	Cuba	LL	t2							ab	-1	-1	-1	-1										17				
ALB	ATN	CP	Belize	LL	t1													22	26	39	366	351	155	230	79	1	399	18	0.3%	97%
ALB	ATN	CP	Belize	LL	t2													a	a	ab	ab	ab	ab	a	a	ab	ac	18		
ALB	ATN	CP	EU.France	UN	t1				301	273	4	1	54	10	6	4	2	1	341	2	48	173	219		2	19	0.3%	97%		
ALB	ATN	CP	EU.France	UN	t2	a	a	a	a	a	a	a	a	a	a	a	a		-1	-1	-1	a	a	a		-1	19			
ALB	ATN	CP	China PR	LL	t1	20			21	16	57	196	155	32	112	202	59	24	27	142	101	21	81	35	21	103	20	0.3%	97%	
ALB	ATN	CP	China PR	LL	t2	-1			a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	a	ab	abc	20			
ALB	ATN	CP	EU.France	LL	t1				76	4	26	16	90	176	253	309	229	128	4	17	3	2	1	0	47	10	21	0.3%	98%	
ALB	ATN	CP	EU.France	LL	t2				a	a	a	a	a	a	a	a	abc	abc	abc	a	a	a	a	ab	-1	-1	21			

Table2. ALB-S stock

				T1 Total		28426	28022	30595	27656	31387	38796	31746	28002	22543	18882	24453	20283	18867	22265	19225	24129	25061	19262	13679	15132	13679				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
ALB	ATS	NCC	Chinese Taipei	LL	t1	18956	18165	16106	17377	17221	15833	17321	17351	13288	10730	12293	13146	9966	8678	10975	13032	12813	8519	6675	7157	8907	1	54.7%	55%	
ALB	ATS	NCC	Chinese Taipei	LL	t2	ab	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	1			
ALB	ATS	CP	South Africa	BB	t1	5425	6581	8401	5010	3463	6715	6057	3323	4153	2856	3365	2024	2334	2967	2446	2029	3466	3395	3620	3898	2001	2	16.6%	71%	
ALB	ATS	CP	South Africa	BB	t2	ab	ab	b	ab	abc	ab	abc	abc	abc	abc	ab	ab	ab	a	a	ab	ab	ab	ab	ab	ab	2			
ALB	ATS	CP	Namibia	BB	t1	982	1192	1422	1072	2240	2969	2858	2432	3079	2031	2426	1058	1856	4936	1263	3711	2275	838	1016	1008	893	3	8.3%	80%	
ALB	ATS	CP	Namibia	BB	t2	-1	-1	-1	abc	c	ab	ac	-1	abc	abc	abc	abc	abc	abc	abc	abc	ab	abc	abc	ab	abc	3			
ALB	ATS	CP	Brazil	LL	t1	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	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	435	424	418	601	554	341	231	322	509	312	316	238	1370	921	973	1194	2903	3106	1131	1750	1100	5	3.8%	88%	
ALB	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	a	5			
ALB	ATS	CP	EU.España	LL	t1	180	190	20	871	282	573	829	183	81	261	358	758	908	997	266	250	235	369	256	354	195	6	1.7%	90%	
ALB	ATS	CP	EU.España	LL	t2	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	-1	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	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	107	8	1.5%	93%	
ALB	ATS	CP	St. Vincent and Grenadines	LL	t2					-1	-1	a		a		a	a	a	a	a	-1	ab	a	ab	ab	8				
ALB	ATS	CP	Brazil	BB	t1	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	-1	a	a	a	a	a	a	ab	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	101	10	1.1%	96%	
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	a	10			
ALB	ATS	CP	Vanuatu	LL	t1									0	684	1400	96	131	64	104	85	35	83	91		11	0.6%	96%		
ALB	ATS	CP	Vanuatu	LL	t2									a	a	a	-1	-1	-1	a	ab	ab	a	a		11				
ALB	ATS	CP	EU.Portugal	BB	t1	494	256	124	232	486	40	433	415	9												12	0.5%	97%		
ALB	ATS	CP	EU.Portugal	BB	t2	-1	-1	-1	-1	-1	a	a	a	a												12				
ALB	ATS	CP	EU.France	PS	t1	190	38	40	13	23	11	18	63	16	478	347	12	50	60	109	53	161	73	38	53	17	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	ac	ac	ac	13			
ALB	ATS	CP	South Africa	LL	t1			11	18	89	144	127	64	52	55	46	78	107	125	83	82	86	115	99	132	65	14	0.3%	97%	
ALB	ATS	CP	South Africa	LL	t2		a	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		14			
ALB	ATS	CP	Uruguay	LL	t1	75	56	110	90	90	135	111	108	120	32	93	34	53	97	24	37	12	209			15	0.3%	98%		
ALB	ATS	CP	Uruguay	LL	t2	-1	-1	b	b	b	b	b	b	b	b		ab	ab	ab	ab	ab	ab	ab			15				
ALB	ATS	CP	Belize	LL	t1				8	2						54	32	31	213	303	335	171	87		123	16	0.3%	98%		
ALB	ATS	CP	Belize	LL	t2	a			-1	a					a	a	a	ab	ab	ab	ab	a	a		ac	16				
ALB	ATS	CP	China PR	LL	t1				39	89	26	30	26	112	95	100	35	25	89	97	80	61	65	34	120	94	17	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	abc	17		
ALB	ATS	CP	South Africa	SP	t1	209	127		73	58	377	323														18	0.2%	98%		
ALB	ATS	CP	South Africa	SP	t2	-1	-1		-1	-1	-1	-1															18			

Table3. ALB-M stock

					T1 Total	3150	2541	2698	4856	5577	4870	5608	7898	4874	3529	5965	6520	2970	4024	2124	4628	2047	1503	2400	2804	3519			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
ALB	MED	CP	EU.Italy	LL	t1	366	172	172	307	2712	2445	3631	3786	1555	1189	1995	2721	2083	1497	1109	1634	1117	605	1342	1356	1480	1	39.6%	40%
ALB	MED	CP	EU.Italy	LL	t2	-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	PS	t1								3079	2100	1046	2589	1249	15	1230		866		10	9	244	4	2	14.8%	54%
ALB	MED	CP	EU.Italy	PS	t2								-1	-1	-1	b	-1	-1	-1		-1		-1	-1	-1	-1	2		
ALB	MED	CP	EU.Greece	UN	t1	952	741	1152	1950	1735	1786	1304															3	11.4%	66%
ALB	MED	CP	EU.Greece	UN	t2	-1	-1	-1	-1	-1	-1	-1															3		
ALB	MED	CP	EU.Italy	GN	t1	1383	1222	1222	2254	916	379	397															4	9.2%	75%
ALB	MED	CP	EU.Italy	GN	t2	-1	-1	-1	-1	ab	b	-1	b		b												4		
ALB	MED	CP	EU.Greece	LL	t1				35	33	40	36	445	427	323	242	257	191	116	125	126	126	165	287	541	1332	5	5.8%	81%
ALB	MED	CP	EU.Greece	LL	t2				-1	-1	-1	-1	a	a	ab	ab	-1	a	a	-1	-1	-1	b	b	a	-1	5		
ALB	MED	CP	EU.Cyprus	LL	t1								17	243	337	451	695	204	220	206	247	321	357	385	505	558	6	5.6%	86%
ALB	MED	CP	EU.Cyprus	LL	t2								a	a	a	ab	abc	abc	abc	abc	abc	ab	a	abc	abc	abc	6		
ALB	MED	CP	EU.España	LL	t1	25	176	22	74	51	112	37	1	109	148	322	421	208	204	277	338	385	238	270	52	48	7	4.2%	91%
ALB	MED	CP	EU.España	LL	t2	ab	ab	ac	ac	ab	ac	ac	-1	-1	a	a	a	abc	abc	abc	a	abc	ab	abc	abc	abc	7		
ALB	MED	CP	Turkey	GN	t1													208	631	402	1396					8	3.1%	94%	
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	1.3%	97%	
ALB	MED	CP	Turkey	PS	t2									-1	-1	-1	-1					-1	-1			10			
ALB	MED	CP	EU.España	TR	t1	119	202	45	73			117											2			11	0.7%	97%	
ALB	MED	CP	EU.España	TR	t2	abc	abc	abc	abc			abc										a				11			
ALB	MED	CP	EU.España	BB	t1	205		33	96	88	77	29			0		0									12	0.6%	98%	
ALB	MED	CP	EU.España	BB	t2	ac		ac	ac	a	-1	ac			-1	a										12			
ALB	MED	CP	EU.España	UN	t1	80	2	24	41	5	12	26		29	40	60	94	31	0		6	3	6	8	0	1	13	0.6%	99%
ALB	MED	CP	EU.España	UN	t2	a	a	a	a	a	a	a		-1	-1	a	a	a	a		a	a	a	a	a	a	13		
ALB	MED	CP	EU.Malta	LL	t1											16	1	4	1	2	5	14	29	59	37	56	14	0.3%	99%
ALB	MED	CP	EU.Malta	LL	t2				a	a					a	-1	-1	-1	a	a	a	a	a	a	a	ab	14		
ALB	MED	CP	EU.Greece	HL	t1				20	18	14	12	27	20	13	18	68										15	0.3%	99%
ALB	MED	CP	EU.Greece	HL	t2				-1	-1	-1	-1	a	-1	-1	-1	-1										15		

Table4. BFT-E stock (ATE region)

					T1 Total	12098	16379	11630	10247	10061	10086	10347	7396	7410	9039	7802	8441	8243	6684	4379	3984	3834	4163	3918	4841	6936			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
BFT	ATE	CP	Japan	LL	t1	3341	2905	3195	2690	2895	2425	2536	2695	2015	2598	1896	1612	2351	1904	1155	1089	1093	1129	1134	1386	1578	1	26.0%	26%
BFT	ATE	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1		
BFT	ATE	CP	EU.España	BB	t1	4979	6634	2605	1278	1939	2319	2478	1278	1847	2207	1190	2307	2326	1197	641	562	197	163	92	130	983	2	22.2%	48%
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	699	1240	1615	852	1540	2330	1670	1305	1098	1518	1744	2417	1947	1909	1348	1055	990	960	959	1176	1433	3	17.8%	66%
BFT	ATE	CP	Maroc	TP	t2	-1	-1	-1	a	a	a	-1	-1	-1	-1	bc	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	3		
BFT	ATE	CP	EU.España	TP	t1	1207	2723	1926	3106	1416	1240	1548	784	862	880	1126	1348	1194	1209	887	902	1106	1370	1173	1466	1936	4	17.5%	83%
BFT	ATE	CP	EU.España	TP	t2	ab	ab	ac	ac	ab	ac	ac	c	c	abc	b	a	abc	abc	abc	abc	abc	abc	ab	abc	abc	4		
BFT	ATE	CP	Maroc	PS	t1	323	828	692	709	660	150	884	490	855	871	179										5	4.0%	87%	
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		57	259	247	394	456	599	518	289	423	829	501	180	295	122	28	36	120	118	166	211	6	3.5%	91%
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	ab	6		
BFT	ATE	CP	EU.France	BB	t1	310	134	282	270	91	105	150	130	47	69	65	128	67	62	83	74	85	74	2	42	99	7	1.4%	92%
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	ab	7		
BFT	ATE	CP	EU.Portugal	LL	t1	97	246	18	404	398	383	160	33	1	67	71	6	12	5			8	0		0	9	8	1.1%	93%
BFT	ATE	CP	EU.Portugal	LL	t2	-1	a	a	-1	-1	a	a	a	a	a	ab	a	a	a	a	a	a		ab	ab	8			
BFT	ATE	CP	EU.Portugal	TP	t1	15	19	45	2	40	15	17	27	18	9	25	23	24	46	57	180	215	233	243	263	315	9	1.1%	95%
BFT	ATE	CP	EU.Portugal	TP	t2	abc	ac	ac	ab	ab	ab	ab	ab	b	b	b	b	b	b	ab	ab	b	ab	ab	ab	ab	9		
BFT	ATE	NCC	Chinese Taipei	LL	t1	61	226	350	222	144	304	158			10	4										10	0.9%	95%	
BFT	ATE	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab			ab	ab						a				10			
BFT	ATE	CP	China PR	LL	t1			85	103	80	68	39	19	41	24	42	72	119	42	38	36	36	38	37	45	54	11	0.6%	96%
BFT	ATE	CP	China PR	LL	t2			-1	a	a	a	a	a	a	a	a	ab	a	a	a	ab	a	a	abc	ab	abc	11		
BFT	ATE	CP	EU.España	HL	t1		162	28	33	126	61	63	109	87	11	4	10	6	2	21	19	25	21	16	59	35	12	0.5%	97%
BFT	ATE	CP	EU.España	HL	t2	ab	ac	ac	ab	ac	ac	ac	c	c	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	12		
BFT	ATE	CP	EU.Portugal	BB	t1	80	447	252	5	2	2	7	1	8	6	7	1									3	0.5%	97%	
BFT	ATE	CP	EU.Portugal	BB	t2	abc	abc	ab	ab	a	a	a	ab	abc	ab	a	a			a				a	abc	13			
BFT	ATE	CP	Panama	LL	t1	550	255		1																	14	0.5%	98%	
BFT	ATE	CP	Panama	LL	t2	-1	-1	a	a																	14			

Table5. BFT-E stock (MED region)

					T1 Total	39399	34831	38370	39753	39939	39914	39653	42604	42590	40961	42198	52559	16217	13133	6959	5790	7100	9081	9343	11360	13162				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
BFT	MED	NCO	NEI (inflated)	PS	t1			9471	16893	16458	15298	15880	18873	18376	14164	18343	28234										1	29.4%	29%	
BFT	MED	NCO	NEI (inflated)	PS	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1										1			
BFT	MED	CP	EU.France	PS	t1	8547	7701	6800	5907	6780	6119	5810	5549	6339	8328	7438	9543	2536	2918	1546	678	678	1940	1944	2299	2763	2	17.5%	47%	
BFT	MED	CP	EU.France	PS	t2	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	ab	abc	abc	abc	ab	ab	abc	abc	b	ab	2			
BFT	MED	CP	EU.Italy	PS	t1	7060	7068	3334	1859	2801	3256	3246	3849	3752	3961	4006	4311	1854	2339	2	752	1374	1474	1539	1678	2050	3	10.5%	57%	
BFT	MED	CP	EU.Italy	PS	t2	-1	-1	b	b	b	-1	b	b	b	b	b	a	ab	abc	abc	-1	abc	-1	-1	b	b	b	3		
BFT	MED	CP	Tunisie	PS	t1	2147	1992	1662	2263	2134	2432	2510	740	2266	3245	2542	427	2679	1932	1042	852	1017	1057	1057	1248	1461	4	6.3%	64%	
BFT	MED	CP	Tunisie	PS	t2	-1	-1	-1	a	a	a	-1	-1	-1	-1	a	b	abc	abc	ab	ab	ab	abc	ab	ab	b	abc	4		
BFT	MED	CP	Turkey	PS	t1	4616	5093	5899	1200	1070	2100	2300	3300	1075	990	806	918	879	665	409	528	536	551	544	1091	1323	5	6.1%	70%	
BFT	MED	CP	Turkey	PS	t2	b	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	abc	abc	bc	5			
BFT	MED	CP	EU.España	PS	t1	1657	1172	1573	1504	1676	1453	1686	1886	1778	2242	2013	1649	1645	1167	804	877	1034	917	1122	1169	952	6	5.1%	75%	
BFT	MED	CP	EU.España	PS	t2	ab	ab	abc	abc	ab	ab	ab	ab	ab	ab	ab	bc	ab	ab	ab	ab	b	ab	ab	ab	ab	6			
BFT	MED	CP	EU.Croatia	PS	t1	1360	1088	889	921	914	890	975	1137	827	1017	1022	817	821	609	370	366	367	380	378	438	436	7	2.7%	78%	
BFT	MED	CP	EU.Croatia	PS	t2	-1	-1	-1	-1	-1	a	ab	a	ab	ab	ab	ab	ab	ab	ab	a	a	ab	abc	abc	7				
BFT	MED	CP	Libya	PS	t1	598	32	230	195	503		200	512	872	730	1140	1200	1267	1047	645		763	933	933	1153	1368	8	2.4%	80%	
BFT	MED	CP	Libya	PS	t2	-1	-1	-1	a	a		-1	-1	-1	-1	-1	a	-1	-1	-1		ab	ab	b	ab	b	8			
BFT	MED	CP	Algerie	PS	t1			900	1056	778	917	922	640	753	623	850	650	972				69	244	244	370	448	9	1.8%	82%	
BFT	MED	CP	Algerie	PS	t2			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				ab	abc	ab	ab	b	9			
BFT	MED	CP	EU.Italy	LL	t1	2100	1620	674	515	287	260	395	475	302	310	286	217	216	193	521	670	256	180	115	312	434	10	1.8%	84%	
BFT	MED	CP	EU.Italy	LL	t2	b	-1	ab	-1	ab	-1	-1	b	b	b	b	ab	abc	abc	abc	abc	abc	abc	ac	abc	abc	10			
BFT	MED	CP	EU.España	LL	t1	416	871	253	418	493	644	436	583	529	484	668	745	804	590	240	58	26	24	34	57	490	11	1.5%	85%	
BFT	MED	CP	EU.España	LL	t2	ab	ab	ab	ac	ab	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	11			
BFT	MED	CP	Libya	LL	t1	656	925	920	900	1002	1867	331	170	393	318	187	158	51	34								12	1.4%	87%	
BFT	MED	CP	Libya	LL	t2	-1	-1	-1	ac	a	a	-1	-1	-1	-1	-1	a	b	b								12			
BFT	MED	CP	Algerie	LL	t1	482	672	175	179	801	503	806	706	501	712	748	754	339									13	1.3%	88%	
BFT	MED	CP	Algerie	LL	t2	-1	-1	-1	-1	b	b	b	b	b	b	-1	b	ab	ab	b					a		13			
BFT	MED	CP	Maroc	HL	t1	541	455	634	600	650	195	407	570	597	80	187	19		2		78	120	130	134	138	140	14	1.0%	89%	
BFT	MED	CP	Maroc	HL	t2	-1	-1	-1	abc	ab	abc	b	b	b	b	b	b		b		abc	abc	abc	abc	abc	ab	14			
BFT	MED	NCO	NEI (combined)	PS	t1		101	1030	1995	109	571	508	610	709												15	1.0%	90%		
BFT	MED	NCO	NEI (combined)	PS	t2		-1	-1	-1	-1	-1	-1	-1	-1												15				
BFT	MED	CP	EU.Malta	LL	t1	399	393	407	447	376	219	240	255	264	321	263	144	165	263	136	92	137	89	91	49	97	16	0.8%	91%	
BFT	MED	CP	EU.Malta	LL	t2	-1	-1	-1	ac	ac	ac	-1	-1	-1	abc	bc	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	16			
BFT	MED	CP	EU.France	LL	t1	580	500	300	246				300	130	309	226	614	134	131	184	112	112	232	234	238	259	17	0.8%	91%	
BFT	MED	CP	EU.France	LL	t2	-1	-1	-1	-1				-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	b	ab	17			
BFT	MED	CP	Japan	LL	t1	765	185	361	381	136	152	390	316	638	378	556	466	80	18								18	0.8%	92%	
BFT	MED	CP	Japan	LL	t2	abc	ac	abc	ac	ac	ac	ac	ac	ac	abc	ac	abc	a	abc								18			
BFT	MED	CP	EU.Greece	HL	t1	784	1127	279	233	597	341	394	245	73		6	7	93	66	135	52	39	35	78	90	34	19	0.8%	93%	
BFT	MED	CP	EU.Greece	HL	t2	-1	-1	-1	a	a	-1	-1	a	-1		-1	-1	a	a	a	a	a	a	a	a	a	19			
BFT	MED	CP	EU.Italy	TP	t1	491	225	419	308	353	427	364	145	119	69	125	93	149	144	281	165	125	222	231	192	20	0.8%	94%		
BFT	MED	CP	EU.Italy	TP	t2	b	b	b	b	b	b	b	b	b	b	b	ab	ab	ab	ab	abc	ac	-1	-1	-1	20				
BFT	MED	CP	Panama	LL	t1	2850	236																			21	0.5%	94%		
BFT	MED	CP	Panama	LL	t2	-1	-1	-1																		21				
BFT	MED	CP	EU.Italy	RR	t1	277	235	9	245	217	229	340	284	284	283	157			17	58	165	66	8	10	10	11	22	0.5%	95%	
BFT	MED	CP	EU.Italy	RR	t2	b	-1	-1	-1	-1	-1	-1	-1	b	b	b		-1	-1	b	-1	-1	-1	-1	-1	-1	22			
BFT	MED	CP	Korea Rep.	PS	t1									700	1145		276	335	102			77	80	81		23	0.5%	95%		
BFT	MED	CP	Korea Rep.	PS	t2									-1	-1		ab	a	a			-1	-1	-1		23				
BFT	MED	CP	EU.Italy	HL	t1	205	301	5	340	171	184	283	229	241	229	133	16	12	14	93	130	25	51	50	79	24	0.5%	96%		
BFT	MED	CP	EU.Italy	HL	t2	-1	-1	b	b	b	b	-1	b	b	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	24			
BFT	MED	NCC	Chinese Taipei	LL	t1	411	278	106	27	169	329	508	445	51	267	5											25	0.4%	96%	
BFT	MED	NCC	Chinese Taipei	LL	t2	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab											25			
BFT	MED	CP	Maroc	PS	t1								170	222	12	3	515	11	367	98	103	103	170	176	184	210	26	0.4%	97%	
BFT	MED	CP	Maroc	PS	t2								-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	-1	-1	-1	26			

Table6. BFT-W stock

						T1 Total	2512	2334	2657	2772	2775	2784	3319	2305	2125	1756	1811	1638	2000	1980	1857	2007	1754	1482	1626	1842	1899			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
BFT	ATW	CP	U.S.A.	RR	t1	840	931	777	760	683	1244	1523	991	716	425	376	634	658	860	682	592	568	365	478	694	868	1	34.6%	35%	
BFT	ATW	CP	U.S.A.	RR	t2	bc	abc	abc	abc	abc	abc	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	1			
BFT	ATW	CP	Japan	LL	t1	436	330	691	365	492	506	575	57	470	265	376	277	492	162	353	578	289	317	302	347	345	2	17.7%	52%	
BFT	ATW	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
BFT	ATW	CP	Canada	RR	t1	155	245	303	348	433	402	508	407	421	497	629	389	475	390	324	295	347	325	331	389	323	3	17.5%	70%	
BFT	ATW	CP	Canada	RR	t2	ab	ab	ab	bc	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	235	191	156	222	242	130	224	299	275	211	205	173	233	335	239	241	295	208	222	89	104	4	10.0%	80%	
BFT	ATW	CP	U.S.A.	LL	t2	abc	abc	abc	abc	abc	abc	b	ab	abc	ab	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	4			
BFT	ATW	CP	U.S.A.	PS	t1	245	250	249	248	275	196	208	265	32	178	4	28		11			2	43	42	39	5	5.1%	85%		
BFT	ATW	CP	U.S.A.	PS	t2	abc	abc	abc	abc	abc	abc	ab	ab	b	b	c	bc		bc			bc	bc	bc	bc		5			
BFT	ATW	CP	U.S.A.	HP	t1	96	98	133	116	184	102	55	88	41	32	30	23	30	66	29	70	52	45	68	77	53	6	3.3%	88%	
BFT	ATW	CP	U.S.A.	HP	t2	bc	bc	bc	bc	bc	bc	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	6			
BFT	ATW	CP	Canada	TL	t1	298	138	172	125	81	79	39	42	49	44	35	23	24	37	40	30	34	52	40	35	15	7	3.2%	92%	
BFT	ATW	CP	Canada	TL	t2	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	7			
BFT	ATW	CP	Canada	LL	t1	22	12	32	31	47	20	53	28	43	36	48	58	30	64	89	112	65	67	61	74	85	8	2.4%	94%	
BFT	ATW	CP	Canada	LL	t2	ab	ab	ab	abc	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				429	270	49															9	1.7%	96%		
BFT	ATW	NCO	NEI (Flag related)	LL	t2				-1	-1	-1															9				
BFT	ATW	CP	Canada	TP	t1	90	59	68	44	16	16	28	84	32	8	3	4	23	23	39	26	17	11	20	6	10	10	1.4%	97%	
BFT	ATW	CP	Canada	TP	t2	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	10			
BFT	ATW	CP	Canada	HP	t1	32	55	36	38	18	20	13	10	7	14	20	17	24	18	37	30	31	25	11	26	25	11	1.1%	98%	
BFT	ATW	CP	Canada	HP	t2	ab	ab	ab	abc	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	55	12	1.0%	99%	
BFT	ATW	CP	Mexico	LL	t2	ab	ab	ab	ab	ab	bc	b	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	12			

Table7. BET-A stock (AT + MD)

				T1 Total		120751	110261	107804	121643	103680	91201	75726	87702	90534	67964	58875	75070	67720	80447	80521	82954	75934	73207	78178	80082	72375				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
BET	A+M	CP	Japan	LL	t1	33171	26490	24330	21833	24605	18087	15306	19572	18509	14026	15735	17993	16684	16395	15205	12306	15390	13397	13603	12391	10426	1	20.8%	21%	
BET	A+M	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	2			
BET	A+M	NCC	Chinese Taipei	LL	t1	21850	19242	16314	16837	16795	16429	18483	21563	17717	11984	2965	12116	10418	13252	13189	13732	10819	10316	13272	16453	13115	2	17.0%	38%	
BET	A+M	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2			
BET	A+M	CP	EU.España	PS	t1	8970	6240	4863	5508	6901	5923	7038	6595	4187	3155	3416	3359	5456	8019	7910	8050	7485	6849	6464	5574	6808	3	7.1%	45%	
BET	A+M	CP	EU.España	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	3				
BET	A+M	CP	Ghana	PS	t1	1328	2961	2646	5360	3105	4972	4738	4915	6057	5444	1788	5923	5962	5199	7797	7491	6796	8378	7901	9258	4489	4	6.2%	51%	
BET	A+M	CP	Ghana	PS	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	ab	abc	abc	ac	a	a	a	a	a	a	4			
BET	A+M	CP	China PR	LL	t1	520	427	1503	7347	6564	7210	5840	7890	6555	6200	7200	7399	5686	4973	5489	3720	3231	2371	2232	4942	5852	5	5.7%	57%	
BET	A+M	CP	China PR	LL	t2	b	-1	a	a	a	ab	ab	a	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	abc	ab	abc	5		
BET	A+M	NCO	NEI (Flag related)	LL	t1	11862	16569	24896	24060	15092	7997	383															6	5.6%	63%	
BET	A+M	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1														6			
BET	A+M	CP	EU.España	BB	t1	6248	6260	2165	8563	4084	3897	3164	4158	3838	4417	3783	3007	1959	3868	2819	4506	2913	2389	3463	3508	3835	7	4.6%	67%	
BET	A+M	CP	EU.España	BB	t2	ac	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	7			
BET	A+M	CP	EU.Portugal	BB	t1	5810	5437	6334	3314	1498	1605	2420	1572	3161	3721	4626	4872	2738	5121	2872	6470	5986	5240	3737	3012	1677	8	4.5%	72%	
BET	A+M	CP	EU.Portugal	BB	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	8			
BET	A+M	CP	Ghana	BB	t1	3423	7204	7509	5056	2164	4242	873	3731	11687	3416	253	2196	1766	2986	2658	2358	2681	2615	2073	2643	324	9	4.0%	76%	
BET	A+M	CP	Ghana	BB	t2	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	a	a	9			
BET	A+M	CP	EU.France	PS	t1	7128	4671	4149	4056	4620	3584	3668	3628	2736	2135	2481	1157	1039	2193	3294	3663	3766	3253	3528	2531	4184	10	4.0%	80%	
BET	A+M	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	10			
BET	A+M	CP	Curaçao	PS	t1	1893	2890	2919	3428	2359	2803	1879	2758	3343	13	441	272	1734	2465	2747	3488	2950	1998	2357	2573	3598	11	2.7%	82%	
BET	A+M	CP	Curaçao	PS	t2	ab	ab	ab	a	ab	ab	ab	ab	ab	b	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	11			
BET	A+M	CP	Panama	PS	t1	1934	431	175	319	378	89	63		1521	2461	2521	3057	2360	2490	3085	3531	1736	2853	2341	1289	2022	12	1.9%	84%	
BET	A+M	CP	Panama	PS	t2	ab	ab	ab	a	ab	ab	ab		ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	12			
BET	A+M	CP	Brazil	LL	t1	1707	1237	644	2024	2762	2534	2582	2374	1379	1014	1423	927	785	1009	1049	1436	846	795	1966	2250	1670	13	1.8%	86%	
BET	A+M	CP	Brazil	LL	t2	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	-1	13			
BET	A+M	CP	Philippines	LL	t1			1154	2113	975	377	837	855	1854	1743	1816	2368	1874	1880	1399	1267	532	1323	1964		14	1.3%	87%		
BET	A+M	CP	Philippines	LL	t2		a	a	a		-1	-1	a	a	a	a	a	a	ab	ab	abc	abc	abc	abc		14				
BET	A+M	CP	Korea Rep.	LL	t1	1250	796	163	124	43	1	87	143	629	770	2067	2136	2599	2134	2646	2762	1908	1151	1039	677	562	15	1.3%	89%	
BET	A+M	CP	Korea Rep.	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ab	b	abc	abc	abc	abc	abc	15			
BET	A+M	NCO	NEI (ETRO)	PS	t1	5585	2403	1350	2539	979	1857	1790	1256	360												16	1.0%	90%		
BET	A+M	NCO	NEI (ETRO)	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	bc	bc	bc	b	b	b	b	b	b	b	b		16				
BET	A+M	CP	EU.France	BB	t1	2357	1746	1942	1998	1921	1593	786	758	587	597	571	261	141	269	156	238	175	25	74	51	135	17	0.9%	91%	
BET	A+M	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	ac	17			
BET	A+M	CP	Cape Verde	PS	t1										1151	1433	1283	482	605	655	1076	734	1377	2361	2757	1679	18	0.9%	91%	
BET	A+M	CP	Cape Verde	PS	t2										a	ab	abc	abc	ac	ac	ac	ac	ac	ac	a	18				
BET	A+M	CP	Senegal	BB	t1	84	204	676	1473	1131	1308	565	541	574	721	1267	804	926	1041	843	215	226	639	361	501	577	19	0.8%	92%	
BET	A+M	CP	Senegal	BB	t2	ac	a	a	a	a	a	a	a	a	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	19				
BET	A+M	CP	U.S.A.	LL	t1	713	795	696	930	532	682	536	284	310	312	521	381	428	430	443	603	582	509	584	574	395	20	0.6%	93%	
BET	A+M	CP	U.S.A.	LL	t2	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	20			
BET	A+M	CP	Guatemala	PS	t1								736	831	1054	977	851	1024	922	1029	288	273	168	1007	340	1103	21	0.6%	94%	
BET	A+M	CP	Guatemala	PS	t2								ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	21			
BET	A+M	CP	EU.España	LL	t1	233	268	385	116	598	211	333	427	417	104	337	346	268	327	751	700	585	865	928	868	604	22	0.5%	94%	
BET	A+M	CP	EU.España	LL	t2	ab	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	-1	22			
BET	A+M	CP	Belize	PS	t1														186	246	704	1246	1274	1362	1654	1290	23	0.4%	94%	
BET	A+M	CP	Belize	PS	t2													ac	a	a	a	a	a	a	a	23				
BET	A+M	CP	Panama	LL	t1	2843	1667	1077		484	473	148															24	0.4%	95%	
BET	A+M	CP	Panama	LL	t2	-1	-1	-1		a	-1	-1															24			
BET	A+M	CP	Guinée Rep.	PS	t1										72		60	20	22	402	525	1804	1674	1111		25	0.3%	95%		
BET	A+M	CP	Guinée Rep.	PS	t2										-1		-1	-1	-1	-1	-1	ac	ac	ac		25				
BET	A+M	CP	Maroc	UN	t1				700	770	857	913	889	929													26	0.3%	95%	
BET	A+M	CP	Maroc	UN	t2				-1	-1	-1	-1	-1	-1													26			
BET	A+M	CP	St. Vincent and Grenadines	LL	t1				1215	506	15	103	18				114	567	171	292	396	37	25	15	30	496	622	27	0.3%	96%
BET	A+M	CP	St. Vincent and Grenadines	LL	t2				-1	-1	a	a	a			a	a	a	a	a	a	ab	a	ab	a	a	27			
BET	A+M	CP	EU.Portugal	LL	t1				1			170	83	42		332	443	633	619	484	527	273	133	100	131	112	500	28	0.3%	96%
BET	A+M	CP	EU.Portugal	LL	t2				-1			a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	28			
BET	A+M	CP	Maroc	LL	t1										519	887	700	802	795	276	99	90	88	80	100	100	29	0.3%	96%	
BET	A+M	CP	Maroc	LL	t2								b	abc	abc	abc	abc	ab	ab		-1	-1	-1	-1	b	ab	a	29		

Table8. YFT-E region

					T1 Total	116096	105034	113576	105615	96531	113132	104767	97467	88207	75677	76388	71795	88593	94661	88187	85105	84678	77790	82109	93861	109001				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
YFT	ATE	CP	EU.France	PS	t1	32633	29737	31123	31010	30287	31871	31600	32344	23961	22319	18480	10934	15981	18748	20093	21772	18590	20390	20878	19239	25766	1	25.8%	26%	
YFT	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	ac	1			
YFT	ATE	CP	EU.España	PS	t1	31866	23901	28282	19332	24764	30433	30343	23665	20454	11121	10607	12833	23557	32140	24191	18238	17898	11336	13463	19918	17802	2	22.7%	48%	
YFT	ATE	CP	EU.España	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	2			
YFT	ATE	CP	Ghana	PS	t1	2542	5621	4083	9005	4853	11787	10674	8291	4101	6364	3641	6358	6151	6236	6855	4821	6357	6450	8885	10332	12524	3	7.4%	56%	
YFT	ATE	CP	Ghana	PS	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	ab	abc	abc	abc	abc	abc	abc	abc	abc	a	a	3		
YFT	ATE	CP	Ghana	BB	t1	5640	9459	9139	11810	7451	11605	7426	6711	9943	6655	9256	4757	5351	4801	3602	3855	3233	2336	2766	2950	6447	4	6.9%	63%	
YFT	ATE	CP	Ghana	BB	t2	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	ab	abc	abc	abc	abc	abc	abc	abc	a	a	4			
YFT	ATE	CP	Curaçao	PS	t1	3183	6082	6110	3962	5441	4793	4035	6185	4161	15	1964	1390	7367	6469	5397	4501	6906	3813	5230	6140	7905	5	5.1%	68%	
YFT	ATE	CP	Curaçao	PS	t2	ab	ab	ab	a	ab	ab	ab	ab	ab	b	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	5			
YFT	ATE	CP	Panama	PS	t1	5759	3137	1753	775	1087	574	1022		1887	6325	8682	9539	6289	5911	5102	4459	5058	4062	4646	3202	4305	6	4.2%	72%	
YFT	ATE	CP	Panama	PS	t2	ab	ab	ab	a	ab	ab	ab		ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	abc	6			
YFT	ATE	CP	Japan	LL	t1	4246	2733	4092	2101	2286	1550	1534	1999	5066	3088	4206	8496	5266	3563	3041	3348	3637	3843	3358	2856	2917	7	3.7%	76%	
YFT	ATE	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	7			
YFT	ATE	CP	Cape Verde	PS	t1				0	6	12	884	246	356	5110	4443	3556	7295	3620	4954	5260	3469	6424	3591	6651	4933	8	3.1%	79%	
YFT	ATE	CP	Cape Verde	PS	t2			a	a	a	a	a	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	a	8			
YFT	ATE	NCO	NEI (ETRO)	PS	t1	9485	6514	7193	5086	5117	9942	7436	2649	2120												9	2.8%	82%		
YFT	ATE	NCO	NEI (ETRO)	PS	t2	ac	ac	ac	ac	ac	abc	abc	abc	ac	c	c	c									9				
YFT	ATE	NCC	Chinese Taipei	LL	t1	3985	2993	3643	3389	4014	2787	3363	4946	4145	2327	860	1707	807	1180	537	1463	819	1023	902	927	762	10	2.4%	84%	
YFT	ATE	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	10			
YFT	ATE	CP	Guatemala	PS	t1								2207	1588	2963	5300	3478	3768	2612	3158	2811	2961	4036	3773	5200	2703	11	2.4%	86%	
YFT	ATE	CP	Guatemala	PS	t2								ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	ac	ac	11				
YFT	ATE	CP	Belize	PS	t1														377	1820	3154	5888	5295	7070	7125	3497	12	1.7%	88%	
YFT	ATE	CP	Belize	PS	t2				b	b		b							abc	ab	ab	ab	ab	a	a	12				
YFT	ATE	CP	EU.España	BB	t1	3069	996	3509	1311	601	504	917	1379	1292	798	928	769	1055	874	1561	3010	973	593	1043	1068	1393	13	1.4%	90%	
YFT	ATE	CP	EU.España	BB	t2	ac	ac	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	13			
YFT	ATE	NCO	NEI (Flag related)	LL	t1	3588	3368	5464	5679	3072	2038	43	466													14	1.2%	91%		
YFT	ATE	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1													14				
YFT	ATE	CP	Cape Verde	HL	t1	1289	1299	1145	1185	1388	1374	918	1617	1501	985	1218	1048	648	1121	1054	800	1164	1164	1164	1164	15	1.2%	92%		
YFT	ATE	CP	Cape Verde	HL	t2	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	15			
YFT	ATE	CP	Russian Federation	PS	t1	2696	4275	4931	4359	737						42	211	42	33							16	0.9%	93%		
YFT	ATE	CP	Russian Federation	PS	t2	-1	b	b	-1	-1						-1	abc	-1	a							16				
YFT	ATE	CP	Senegal	BB	t1	41	208	251	834	252	295	447	279	668	1301	1262	816	550	1157	1168	1014	1647	1218	500	583	692	17	0.8%	94%	
YFT	ATE	CP	Senegal	BB	t2	ac	a	a	a	a	a	a	a	a	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	17				
YFT	ATE	CP	EU.France	BB	t1	1658	887	319	1068	416	684	1444	757	585	596	588	430	186	378	360	609	258	29	322	340	432	18	0.6%	94%	
YFT	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	ac	18			
YFT	ATE	CP	China PR	LL	t1	124	84	71	1535	1652	586	262	1033	1030	1112	1056	1000	365	214	169	220	170	130	20	78	286	19	0.6%	95%	
YFT	ATE	CP	China PR	LL	t2	-1	-1	a	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	a	a	abc	19			
YFT	ATE	CP	El Salvador	PS	t1																				2750	8252	20	0.6%	95%	
YFT	ATE	CP	El Salvador	PS	t2																			ac	ac	20				
YFT	ATE	CP	Senegal	PS	t1																			1230	6017	21	0.4%	96%		
YFT	ATE	CP	Senegal	PS	t2																			ac	ac	21				
YFT	ATE	CP	Guinée Rep.	PS	t1									72			66	20	67	393	682	2435	1970	1283		22	0.4%	96%		
YFT	ATE	CP	Guinée Rep.	PS	t2									-1			-1	-1	-1	-1	a	ac	ac	ac		22				
YFT	ATE	NCO	Mixed flags (EU tropical)	PS	t1	254	452	291	216	423	42	13	298	570	292	251	416	464	467	857	1601					23	0.4%	97%		
YFT	ATE	NCO	Mixed flags (EU tropical)	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		23			
YFT	ATE	CP	South Africa	BB	t1	139	102	192	264	129	230	77	256	139	339	444	264	108	213	159	552	160	369	1351	783	599	24	0.3%	97%	
YFT	ATE	CP	South Africa	BB	t2	a	a	-1	a	abc	a	abc	abc	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	24			
YFT	ATE	CP	Côte d'Ivoire	GN	t1		2			673	213	99	302	565	175	482	216	626		340	80	591	1714	172	124	260	25	0.3%	97%	
YFT	ATE	CP	Côte d'Ivoire	GN	t2		-1			-1	-1	-1	-1	-1	-1	-1	-1	a	-1		-1	a	a	ab	a	a	25			

Table9. YFT-W region

					T1 Total	33056	32341	30919	30710	35623	40323	29660	24982	31238	26068	28272	24167	18123	18777	20794	17678	19851	19479	14879	15076	18776				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
YFT	ATW	CP	Venezuela	PS	t1	10777	11653	9157	6523	7572	13064	7961	4607	3185	2634	4439	2341	2067	1363	2722	2253	3291	3635	2581	1920	2367	1	20.0%	20%	
YFT	ATW	CP	Venezuela	PS	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	1			
YFT	ATW	CP	U.S.A.	RR	t1	4032	3569	2927	3967	3862	4185	2887	5328	3759	3657	4908	2966	1033	1011	1231	1498	1727	687	1067	936	1911	2	10.8%	31%	
YFT	ATW	CP	U.S.A.	RR	t2	ab	ab	ab	ab	abc	ab	abc	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
YFT	ATW	CP	U.S.A.	LL	t1	3320	3773	2449	3541	2901	2200	2573	2164	2492	1746	2010	2395	1394	1686	1218	1462	2270	1544	1446	1041	1301	3	8.5%	39%	
YFT	ATW	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	3			
YFT	ATW	CP	Brazil	LL	t1	734	849	1014	2930	2754	4883	3323	1941	1968	4695	1329	1552	1744	1039	1145	1794	1815	1584	703	1186	1158	4	7.6%	47%	
YFT	ATW	CP	Brazil	LL	t2	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	-1	4			
YFT	ATW	CP	Venezuela	BB	t1	2604	2632	4267	4152	3660	4039	3166	2475	2030	1631	1481	951	489	929	809	1068	788	673	395	428	771	5	7.4%	54%	
YFT	ATW	CP	Venezuela	BB	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	5			
YFT	ATW	CP	Brazil	BB	t1	1956	1643	1229	1197	3093	1276	2843	1289	2838	2236	1214	1353	397	402	627	1243	320	730	98	315	381	6	5.0%	59%	
YFT	ATW	CP	Brazil	BB	t2	a	a	a	a	-1	a	a	a	a	a	a	ab	a	a	a	a	a	a	a	a	-1	6			
YFT	ATW	CP	St. Vincent and Grenadines	LL	t1					1956	1341	1147	543	4227		2633	2972	2532	2230	819	927	551	325	481	124	434	7	4.4%	64%	
YFT	ATW	CP	St. Vincent and Grenadines	LL	t2					-1	-1	a	a	a		a	a	a	a	a	a	a	a	a	a	a	7			
YFT	ATW	CP	Mexico	LL	t1	771	826	788	1283	1390	1084	1133	1313	1208	1050	943	896	961	1220	924	1183	1421	1006	1048	971	1282	8	4.3%	68%	
YFT	ATW	CP	Mexico	LL	t2	a	a	a	a	a	c	-1	a	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	8			
YFT	ATW	CP	Japan	LL	t1	1004	806	1081	1304	1775	1141	571	755	1194	1159	437	541	986	1431	1539	1106	1024	734	465	613	466	9	3.8%	72%	
YFT	ATW	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	9			
YFT	ATW	NCC	Chinese Taipei	LL	t1	2668	1473	1685	1022	1647	2018	1296	1540	1679	1269	400	240	315	211	287	305	252	236	139	293	180	10	3.6%	75%	
YFT	ATW	NCC	Chinese Taipei	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	10			
YFT	ATW	CP	Venezuela	LL	t1	383	381	560	504	421	451	266	323	559	828	593	613	712	898	1249	1090	736	738	790	773	1060	11	2.6%	78%	
YFT	ATW	CP	Venezuela	LL	t2	a	ab	ab	ab	a	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	11			
YFT	ATW	NCO	NEI (Flag related)	LL	t1	2374	2732	2875	1730	2197	773	14	112													12	2.4%	80%		
YFT	ATW	NCO	NEI (Flag related)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1												12				
YFT	ATW	CP	Brazil	UN	t1			271			71			2147	292	1213	2541	581	1868	1845	160	317				13	2.1%	82%		
YFT	ATW	CP	Brazil	UN	t2			-1			-1			-1	-1	b	-1	-1	-1	-1	-1	-1				13				
YFT	ATW	CP	Trinidad and Tobago	LL	t1	183	223	213	163	112	122	125	186	224	295	459	615	520	629	788	798	930	1128	1141	1179	1057	14	2.1%	85%	
YFT	ATW	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	14			
YFT	ATW	CP	Brazil	HL	t1	69	156						272			30	22	25	2		299	384	1002	2065	3395	2154	15	1.9%	86%	
YFT	ATW	CP	Brazil	HL	t2	-1	-1					-1				-1	-1	-1	-1	a	-1	-1	-1	a	-1	-1	15			
YFT	ATW	CP	Panama	LL	t1				5		20	28				2804	227	153	119	2134			1995	902		16	1.6%	88%		
YFT	ATW	CP	Panama	LL	t2			-1	a	-1	-1	-1				a	a	a	a	-1			a	a		16				
YFT	ATW	CP	Vanuatu	LL	t1								681	689	661	555	873	816	720	330	207	124	17			17	1.1%	89%		
YFT	ATW	CP	Vanuatu	LL	t2								a	a	a	a	-1	-1	-1	a	ab	ab	a	a		17				
YFT	ATW	NCO	Grenada	LL	t1					593	749	460	492	502	633	756	630	673								18	1.0%	90%		
YFT	ATW	NCO	Grenada	LL	t2					-1	a	a	a	a	a	a	a	-1	-1							18				
YFT	ATW	CP	China PR	LL	t1		628	655	22	470	435	17	275	74	29	124	284	248	258	126	94	81	73	91	182	19	0.8%	91%		
YFT	ATW	CP	China PR	LL	t2		a	a	a	a	a	a	a	a	a	ab	a	a	ab	ab	ab	ab	ab	abc	ab	abc	19			
YFT	ATW	CP	Belize	LL	t1										143	1164	1160	940	264	42	41	38	33		39	20	0.7%	92%		
YFT	ATW	CP	Belize	LL	t2										a	a	a	ab	ab	ab	ab	ab	ab	ab	a	20				
YFT	ATW	NCC	Suriname	LL	t1																1943	1829				21	0.7%	92%		
YFT	ATW	NCC	Suriname	LL	t2																-1	-1				21				
YFT	ATW	CP	EU.France	LL	t1												122	456	712	412	358	647	632			22	0.6%	93%		
YFT	ATW	CP	EU.France	LL	t2												-1	-1	-1	-1	-1	-1	-1	-1	-1	22				
YFT	ATW	CP	Barbados	LL	t1		149	150	155	155	142	115	146	181	243	160	133	135	60	86	103	145	175	194	258	316	23	0.6%	94%	
YFT	ATW	CP	Barbados	LL	t2		-1	-1	-1	b	-1	-1	-1	-1	-1	-1	-1	-1	abc	ab	ab	ab	ab	ab	ab	ab	23			
YFT	ATW	NCO	Grenada	UN	t1	523	302	484	430	403	759															24	0.5%	94%		
YFT	ATW	NCO	Grenada	UN	t2	-1	-1	-1	-1	-1	-1	-1														24				
YFT	ATW	CP	U.S.A.	HL	t1	82	91	65	219	284	300	244	200	249	160	164	148	42	84	48	44	86	67	58	67	38	25	0.5%	95%	
YFT	ATW	CP	U.S.A.	HL	t2	b	b	b	b	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	bc	25			
YFT	ATW	CP	Korea Rep.	LL	t1	84	156								580	279	270	10	52	56	470	472	115	39	11	12	26	0.5%	95%	
YFT	ATW	CP	Korea Rep.	LL	t2	a	a								a	a	a	a	a	ab	-1	abc	abc	abc	abc	abc	26			
YFT	ATW	CP	Canada	LL	t1	154	100	57	20	105	125	69	72	302	239	292	276	168	53	166	50	92	74	34	59	19	27	0.5%	96%	
YFT	ATW	CP	Canada	LL	t2	a	a	a	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	27		

Table10. SKJ-E stock

				T1 Total		129554	117243	132365	153331	126477	132169	100924	130734	154243	143566	113279	127137	124611	138985	170125	191117	220334	220693	204446	209082	217363				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SKJ	ATE	CP	EU.España	PS	t1	33947	33428	29976	42714	37145	27798	21596	39396	33421	18718	14975	17675	27918	30041	34175	46823	48185	57594	43139	38754	41085	1	22.1%	22%	
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	ac	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	38284	2	15.4%	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	a	2			
SKJ	ATE	CP	Ghana	BB	t1	20115	20315	25895	31134	22919	44464	18516	18094	34151	26042	20932	17195	14433	19182	14596	17112	16953	11300	11393	13562	13051	3	13.2%	51%	
SKJ	ATE	CP	Ghana	BB	t2	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	abc	ac	ac	ac	a	a	a	a	3			
SKJ	ATE	CP	EU.France	PS	t1	23856	16736	17850	22317	21426	15829	15899	21505	23224	13523	5770	3580	3948	7722	14582	13569	13395	16022	17085	20253	18164	4	10.0%	61%	
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	ac	4			
SKJ	ATE	CP	Curaçao	PS	t1	7096	8444	8553	9932	10008	13370	5427	10092	8708	88	3213	1703	6541	10060	9594	12380	13324	18312	18437	19621	22180	5	6.7%	67%	
SKJ	ATE	CP	Curaçao	PS	t2	ab	ab	ab	a	ab	ab	ab	ab	ab	b	ab	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	5			
SKJ	ATE	CP	EU.España	BB	t1	5044	7075	8593	5607	3780	3156	3836	7174	7207	10119	7633	6378	8345	8647	8405	11674	19445	10185	9951	7269	10994	6	5.2%	73%	
SKJ	ATE	CP	EU.España	BB	t2	ac	abc	ac	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	ac	6			
SKJ	ATE	CP	Panama	PS	t1	5855	1300	572	1117	1374	281	342			7126	12286	14016	19798	8946	9199	9944	13119	11211	15520	14565	8372	11510	7	5.1%	78%
SKJ	ATE	CP	Panama	PS	t2	ab	ab	ab	a	ab	ab	ab			ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	ac	abc	7			
SKJ	ATE	CP	Cape Verde	PS	t1	8	18	21	1		300	366	54	1040	7498	4862	5434	4872	5387	5823	8277	5680	16135	16307	17292	9425	8	3.3%	81%	
SKJ	ATE	CP	Cape Verde	PS	t2	a	a	a	a		a	a	a	ab	ab	ab	abc	abc	abc	abc	abc	ac	ac	ac	ac	a	8			
SKJ	ATE	CP	EU.Portugal	BB	t1	8276	4395	4519	1800	1285	2135	2940	4276	8459	4687	11001	8604	5734	904	12859	4078	2758	4039	1703	1296	695	9	3.0%	84%	
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	9			
SKJ	ATE	CP	Guatemala	PS	t1								2120	4808	6649	5028	5612	6481	4095	3087	2880	3732	4979	5904	7078	7386	10	2.1%	86%	
SKJ	ATE	CP	Guatemala	PS	t2								ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	ac	ac	10				
SKJ	ATE	CP	Belize	PS	t1														1488	3109	7797	15733	6854	11080	12599	7730	11	2.0%	88%	
SKJ	ATE	CP	Belize	PS	t2														ac	a	a	a	a	a	a	a	11			
SKJ	ATE	NCO	NEI (ETRO)	PS	t1	16050	5658	5741	7675	5245	5679	6202	5533	4750												12	1.9%	90%		
SKJ	ATE	NCO	NEI (ETRO)	PS	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	bc	bc	bc	b	b	b	b	b	b	b	b		12			
SKJ	ATE	CP	Senegal	BB	t1	163	455	1679	1479	1506	1271	1060	733	1385	4874	3534	2278	3661	4513	2411	4765	4276	4014	3252	1895	2495	13	1.6%	92%	
SKJ	ATE	CP	Senegal	BB	t2	ac	a	a	a	a	a	a	a	a	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	13			
SKJ	ATE	CP	EU.France	BB	t1	1698	3701	4179	2343	1497	2550	2305	1878	1752	2240	1610	795	778	1186	904	932	1382	682	750	939	1270	14	1.1%	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	ac	14			
SKJ	ATE	CP	Guinée Rep.	PS	t1										387		330	118	359	2114	3252	10321	9033	7629		15	1.0%	94%		
SKJ	ATE	CP	Guinée Rep.	PS	t2										-1		-1	-1	-1	-1	a	ac	ac	ac		15				
SKJ	ATE	NCO	Mixed flags (EU tropical)	PS	t1	1316	2345	1508	1119	2194	218	65	1547	2953	1708	1478	3003	2998	2624	3427	2372					16	0.9%	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	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	373	17	0.9%	96%	
SKJ	ATE	CP	Côte d'Ivoire	GN	t2					-1	-1	-1	-1	-1	-1	-1	a		-1	-1	-1	a	a	a	ab	a	17			
SKJ	ATE	CP	El Salvador	PS	t1																				6970	16949	18	0.7%	96%	
SKJ	ATE	CP	El Salvador	PS	t2																			ac	ac	18				
SKJ	ATE	CP	Maroc	PS	t1	553	4449	1861	715	180	99	126	410	442	3660	536	131	108	654	892	1061	1076	1121	583	92	20	19	0.6%	97%	
SKJ	ATE	CP	Maroc	PS	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a		-1	-1	-1	-1	-1	-1	-1	-1	-1	19			
SKJ	ATE	CP	Senegal	PS	t1			284	152																2705	14092	20	0.5%	98%	
SKJ	ATE	CP	Senegal	PS	t2			-1	-1															ac	ac	20				
SKJ	ATE	CP	Côte d'Ivoire	PS	t1															2128	6559	3418	2256			21	0.4%	98%		
SKJ	ATE	CP	Côte d'Ivoire	PS	t2															a	a	a	ac			21				

Table11. SKJ-W stock

					T1 Total	27562	31712	29087	27356	29193	31451	21600	24749	27461	28517	26453	25443	22022	25774	23000	32383	32857	35037	26727	20130	28570			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
SKJ	ATW	CP	Brazil	BB	t1	22517	25573	23567	22948	24691	24038	18185	20416	23036	25269	23012	22750	20547	22329	19747	29322	30569	32337	24787	17499	24874	1	86.3%	86%
SKJ	ATW	CP	Brazil	BB	t2	a	ab	a	a	-1	a	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a	-1	1		
SKJ	ATW	CP	Venezuela	PS	t1	3348	3604	3607	2696	2590	5189	2000	2296	2769	848	1806	806	688	1808	1931	1308	1573	908	1081	1974	1912	2	7.8%	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	CP	Venezuela	BB	t1	224	224	506	282	299	1104	552	950	501	245	201	115	69	441	177	146	124	60	27	39	393	3	1.2%	95%
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	3		
SKJ	ATW	NCO	Cuba	BB	t1	1000	1000	651	651	651			624	545	514	536										4	1.1%	96%	
SKJ	ATW	NCO	Cuba	BB	t2	-1	-1	-1	-1	-1	-1	b	-1	-1	-1	-1										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		248	3								17	1033	85	748	843	311	6			6	0.6%	98%		
SKJ	ATW	CP	Brazil	UN	t2		-1	-1							b	-1	-1	-1	-1	-1	-1	-1			6				
SKJ	ATW	NCO	Sta. Lucia	TR	t1							106	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	-1	7			
SKJ	ATW	CP	U.S.A.	RR	t1		82	64	86	99	30	49	70	61	74	15	49	52	49	102	45	77	104	115	65	76	8	0.3%	98%
SKJ	ATW	CP	U.S.A.	RR	t2	b	ab	ab	ab	ab	ab	abc	abc	abc	abc	abc	abc	ab	abc	ab	ab	ab	ab	ab	ab	ab	8		
SKJ	ATW	CP	Panama	LL	t1																					9	0.2%	98%	
SKJ	ATW	CP	Panama	LL	t2																		543	410		9			
SKJ	ATW	CP	St. Vincent and Grenadines	TR	t1							58	90	85	85	147	88	83	52	44	50		36	39	46	10	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	10			
SKJ	ATW	CP	Brazil	HL	t1	0											5		4	152	201	177	47	85	103	11	0.1%	99%	
SKJ	ATW	CP	Brazil	HL	t2	-1											-1	-1	-1	a	-1	-1	a	-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	-1	a	a		a	a		-1	a	a	a	12			
SKJ	ATW	CP	EU.España	PS	t1																					641	13	0.1%	99%
SKJ	ATW	CP	EU.España	PS	t2	ac	ac	a	ac		a	ac			ac			abc	abc	abc	abc	abc	ac	abc	ac	-1	13		

Table12. SWO-N stock

					T1 Total	15222	13025	12223	11622	11453	10011	9654	11442	12068	12373	11470	12302	11050	12081	11553	12523	13868	12069	10677	10681	10404				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SWO	ATN	CP	EU.España	LL	t1	5519	5133	4079	3993	4581	3967	3954	4585	5373	5511	5446	5564	4366	4949	4147	4885	5620	4082	3750	4013	3915	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	abc	abc	abc	ac	1			
SWO	ATN	CP	U.S.A.	LL	t1	4015	3399	3433	3364	3316	2498	2598	2757	2591	2273	1961	2474	2405	2691	2204	2572	3347	2812	1816	1593	1394	2	22.4%	62%	
SWO	ATN	CP	U.S.A.	LL	t2	ab	ab	ab	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	2			
SWO	ATN	CP	Canada	LL	t1	646	1005	927	1136	923	984	954	1216	1161	1470	1238	1142	1115	1061	1182	1351	1502	1290	1383	1489	1473	3	9.9%	72%	
SWO	ATN	CP	Canada	LL	t2	ab	ab	ab	abc	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	1702	902	772	776	731	731	765	1032	1319	900	949	778	747	898	1054	1202	882	1438	1241	1420	1171	4	8.6%	80%	
SWO	ATN	CP	EU.Portugal	LL	t2	ab	ab	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4			
SWO	ATN	CP	Japan	LL	t1	1494	1218	1391	1089	759	567	319	263	575	705	656	889	935	778	1062	523	639	300	545	430	383	5	6.3%	87%	
SWO	ATN	CP	Japan	LL	t2	abc	abc	abc	abc	abc	bc	bc	bc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	5			
SWO	ATN	CP	Maroc	LL	t1	35	239		35	38	264	154	223	255	325	333	229	428	720	963	700	700	1000	1000	800	800	6	3.7%	90%	
SWO	ATN	CP	Maroc	LL	t2	-1	-1		-1	-1	-1	-1	bc	abc	abc	abc	abc	abc	bc	abc	a	a	abc	bc	abc	ab	6			
SWO	ATN	NCC	Chinese Taipei	LL	t1	521	509	286	285	347	299	310	257	30	140	172	103	82	89	88	192	193	115	85	133	152	7	1.8%	92%	
SWO	ATN	NCC	Chinese Taipei	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7			
SWO	ATN	CP	Canada	HP	t1	93	89	240	18	95	121	38	147	87	193	203	267	258	248	176	208	97	275	233	98	85	8	1.3%	93%	
SWO	ATN	CP	Canada	HP	t2	ab	ab	ab	abc	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	132	40	337	304	22	102	90	316	56	108	72	85	92	92	73	75	59	96	60	141	135	9	1.0%	94%	
SWO	ATN	CP	China PR	LL	t2	-1	-1	a	a	a	a	a	a	a	a	ab	a	ab	ab	ab	ab	ab	a	ab	abc	9				
SWO	ATN	CP	Trinidad and Tobago	LL	t1	158	110	130	138	41	75	92	78	83	91	19	29	48	30	21	16	14	16	26	17	13	10	0.5%	95%	
SWO	ATN	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	10			
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	76	11	0.5%	95%	
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	bc	11			
SWO	ATN	CP	Maroc	GN	t1	322	13	179	60	51	243	64	98	76	9						80					12	0.5%	96%		
SWO	ATN	CP	Maroc	GN	t2	-1	-1	c	ac	ac	ac	-1	b	b	b					-1						12				
SWO	ATN	CP	Korea Rep.	LL	t1	19	15								51	65	175	157	3		170	46	83	35	2	9	13	0.3%	96%	
SWO	ATN	CP	Korea Rep.	LL	t2	a	a			a					a	a	a	a	a		-1	-1	abc	abc	b	abc	13			
SWO	ATN	CP	Belize	LL	t1												9	1	112	106	184	141	142	76	8	3	14	0.3%	97%	
SWO	ATN	CP	Belize	LL	t2												a	a	ab	ab	ab	a	a	ab	a	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	46	15	0.3%	97%	
SWO	ATN	CP	U.S.A.	RR	t2	a	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	abc	abc	abc	abc	abc	abc	ab	15		
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	37	16	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	ab	16			
SWO	ATN	CP	EU.France	TW	t1				60		74	138				91			12	32	15	13	35	25	63	87	17	0.3%	97%	
SWO	ATN	CP	EU.France	TW	t2				-1		-1	-1			-1			-1	-1	-1	-1	-1	-1	ab	-1	-1	17			
SWO	ATN	CP	EU.France	UN	t1	97	164						32	102	178	0	46	14	3	1	0	1			0	18	0.3%	98%		
SWO	ATN	CP	EU.France	UN	t2	-1	-1						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	18				
SWO	ATN	NCO	Grenada	LL	t1	4	15	15	42	84		54	88	73	56	30	26	43								19	0.2%	98%		
SWO	ATN	NCO	Grenada	LL	t2	-1	-1	-1	-1	-1		-1	a	a	a	a	a	a								19				
SWO	ATN	CP	Venezuela	LL	t1	74	11	7	9	30	12	25	29	46	48	15	19	5	8	16	13	18	20	18	29	53	20	0.2%	98%	
SWO	ATN	CP	Venezuela	LL	t2	b	b	b	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	20			

Table13. SWO-S stock

					T1 Total	18289	18542	14027	15502	15728	15128	14104	12633	13077	13162	14245	15630	12546	12846	12697	11455	10686	8212	9957	10319	7725					
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum		
SWO	ATS	CP	EU.España	LL	t1	9622	8461	5832	5758	6388	5789	5741	4527	5483	5402	5300	5283	4073	5183	5801	4700	4852	4184	4113	5059	4992	1	42.1%	42%		
SWO	ATS	CP	EU.España	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ac	1				
SWO	ATS	CP	Brazil	LL	t1	1892	4100	3844	4721	4579	4075	2903	2917	2914	3780	4120	3892	3152	3132	2657	2800	2831	1312	2890	2567	2	23.5%	66%			
SWO	ATS	CP	Brazil	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a		2				
SWO	ATS	CP	Japan	LL	t1	2197	1494	1186	775	790	685	833	924	686	480	1090	2155	1600	1340	1314	1233	1162	684	976	659	639	3	8.3%	74%		
SWO	ATS	CP	Japan	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	a		3				
SWO	ATS	NCC	Chinese Taipei	LL	t1	2873	2562	1147	1168	1303	1149	1164	1254	745	744	377	671	727	612	410	428	496	582	451	554	480	4	7.2%	81%		
SWO	ATS	NCC	Chinese Taipei	LL	t2	abc	abc	abc	abc	abc	abc	abc	abc	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	4				
SWO	ATS	CP	Uruguay	LL	t1	644	760	889	650	713	789	768	850	1105	843	620	464	370	501	222	179	40	103			5	3.8%	85%			
SWO	ATS	CP	Uruguay	LL	t2	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	466	6	3.0%	88%		
SWO	ATS	CP	Namibia	LL	t2			a		-1	ab	a		-1	a	ab	ab	ab	ab	ab	a	ab	a	a	a		6				
SWO	ATS	CP	EU.Portugal	LL	t1	389	441	384	381	392	393	380	354	345	493	440	428	271	367	232	263	184	125	252	236	250	7	2.5%	90%		
SWO	ATS	CP	EU.Portugal	LL	t2	a	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7					
SWO	ATS	CP	China PR	LL	t1			29	534	344	200	423	353	278	91	300	473	470	291	296	248	316	196	206	328	222	8	2.0%	92%		
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	abc	8				
SWO	ATS	CP	South Africa	LL	t1			240	143	327	547	649	293	295	199	186	207	142	170	145	97	50	171	152	218	164	9	1.6%	94%		
SWO	ATS	CP	South Africa	LL	t2			ab	ab	ab	ac	abc	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	9				
SWO	ATS	CP	Ghana	GN	t1	140	44	106	121	117	531	372	734	343	55	32	65	177	132	116	60	54	37	26	56	36	10	1.2%	95%		
SWO	ATS	CP	Ghana	GN	t2	ab	b	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	10				
SWO	ATS	CP	S. Tomé e Príncipe	TR	t1	166	148	135	129	120	120	120	120	126	147	138	138	172	179	176						77	11	0.8%	96%		
SWO	ATS	CP	S. Tomé e Príncipe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				-1	11					
SWO	ATS	CP	Brazil	UN	t1			3			7				70	5	310	351	260	253	269	184	0		12	12	0.6%	97%			
SWO	ATS	CP	Brazil	UN	t2			-1			-1				-1	-1	b	-1	-1	-1	-1	-1	-1		-1	12					
SWO	ATS	CP	Senegal	LL	t1												77	138	195	180	264	162	178	143	97	173	13	0.6%	97%		
SWO	ATS	CP	Senegal	LL	t2												-1	a		-1	a	a	a	a	a	a	13				
SWO	ATS	CP	U.S.A.	LL	t1	172	417	170	185	144	43	200	21	16						0			0			14	0.5%	98%			
SWO	ATS	CP	U.S.A.	LL	t2	a	a	ab	abc	abc	abc	abc	abc	abc						bc			abc		abc		14				
SWO	ATS	CP	Belize	LL	t1				17	8							120	32	111	121	207	197	136	45	104	176	15	0.5%	98%		
SWO	ATS	CP	Belize	LL	t2				-1	a							a	a	ab	ab	ab	ab	a	a	ab	a	15				
SWO	ATS	CP	Côte d'Ivoire	GN	t1	26	18	25	26	20	19	19	43	29	31	39	17	159	167	42	145	66	109	55	42	25	16	0.4%	99%		
SWO	ATS	CP	Côte d'Ivoire	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		-1	-1	a	-1	-1	-1	a	a	a	ab	a	a	16		

Table14. SWO-M stock

						T1 Total	12053	14693	14369	13699	15569	15006	12814	15674	14405	14600	14895	14227	12164	11840	13265	11450	9913	9096	9801	10166	9961			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SWO	MED	CP	EU.Italy	LL	t1	2617	2458	2458	2680	2639	2236	1841	5844	5452	5560	5253	4564	4521	4687	5101	4579	3856	2848	3384	4213	3917	1	29.9%	30%	
SWO	MED	CP	EU.Italy	LL	t2	b	b	ab	b	ab	b	b	b	b	b	b	b	bc	abc	abc	abc	abc	abc	abc	abc	abc	1			
SWO	MED	CP	EU.España	LL	t1	1040	1184	1409	867	1396	1402	1421	1165	930	860	1405	1648	2063	1994	1785	1730	1580	1605	2019	2289	1732	2	11.7%	42%	
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	EU.Greece	LL	t1	1237	750	1650	1520	1960	1730	1680	1230	1129	1424	1374	1907	989	1132	1494	1306	877	1731	1344	761	761	3	10.4%	52%	
SWO	MED	CP	EU.Greece	LL	t2	-1	-1	ab	ab	ab	ab	b	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	3			
SWO	MED	CP	Maroc	GN	t1	2461	4653	2905	2979	2503	2266	2230	1629	1299	722	603	615	587	477	410	387						4	9.9%	62%	
SWO	MED	CP	Maroc	GN	t2	-1	-1	c	bc	abc	abc	b	b	b	b	b	b	abc	-1	abc	abc						4			
SWO	MED	CP	EU.Italy	GN	t1	2657	3632	3632	3632	4863							2373	1948							0	5	8.4%	70%		
SWO	MED	CP	EU.Italy	GN	t2	b	b	b	b	ab	b		b	b	b	b	-1								-1	5				
SWO	MED	CP	Maroc	LL	t1	273	245	323	259	205	754	1149	1670	1954	1801	1455	1107	1370	1110	1200	640	802	770	770	480	900	6	7.1%	77%	
SWO	MED	CP	Maroc	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	bc	abc	abc	abc	abc	6			
SWO	MED	CP	Tunisie	LL	t1	352	346	414	468	483	567	1138	285	791	791	949	1024	1011	1012	1016	1040	1038	1036	1030	1034	1007	7	6.2%	84%	
SWO	MED	CP	Tunisie	LL	t2	-1	-1	-1	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7			
SWO	MED	CP	EU.Italy	UN	t1					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	b	-1	b	b		-1	-1		-1	-1	bc	-1	-1		8			
SWO	MED	CP	Algerie	LL	t1	247	247				133	99		52	93	496	492	802	468	459	192	356	384	549	558	666	9	2.3%	91%	
SWO	MED	CP	Algerie	LL	t2	-1	-1				-1	-1		-1	-1	-1	a	a	-1	-1	ab	ab	ac	ab	-1	9				
SWO	MED	CP	EU.Malta	LL	t1	72	100	153	187	175	102	257	163	195	362	239	213	260	266	423	532	503	460	376	489	410	10	2.2%	93%	
SWO	MED	CP	EU.Malta	LL	t2	-1	-1	-1	ac	ac	ac	-1	-1	-1	abc	bc	ab	abc	ab	ab	ab	abc	ab	abc	abc	abc	10			
SWO	MED	CP	Turkey	GN	t1	320	350	450	230	370	360	300	350	386	425	410	423										11	1.6%	95%	
SWO	MED	CP	Turkey	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ac	ac	ac	ac	c				11			
SWO	MED	CP	Algerie	GN	t1			590	531	599	642	467		233	311	87	108										12	1.3%	96%	
SWO	MED	CP	Algerie	GN	t2			-1	-1	-1	-1	-1		-1	-1	-1	-1										12			
SWO	MED	CP	Algerie	UN	t1	560	560	178	126	166	306	248	665	122													13	1.1%	97%	
SWO	MED	CP	Algerie	UN	t2	-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	70	14	0.6%	98%		
SWO	MED	CP	Turkey	LL	t2						-1							a	a	a	ab	a	ab	abc	abc	bc	14			
SWO	MED	CP	EU.Cyprus	LL	t1	40	51	61	92	82	135	104	47	49	53	43	67	67	38	31	35	35	51	59	45	43	15	0.5%	98%	
SWO	MED	CP	EU.Cyprus	LL	t2	a	a	a	-1	a	-1	a	a	a	a	ab	abc	abc	abc	abc	abc	ab	abc	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			

Table15. BUM-A stock (AT + MD)

					T1 Total	5462	5800	5812	5476	5395	4458	3745	4356	2872	3319	2989	3994	4508	3510	3223	2324	2190	1325	1809	1575	1295				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
BUM	A+M	CP	Japan	LL	t1	1679	1349	1185	790	883	335	267	442	540	442	490	920	1028	822	731	402	430	189	280	293	297	1	18.3%	18%	
BUM	A+M	CP	Japan	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	1			
BUM	A+M	CP	Ghana	GN	t1	422	491	447	624	639	795	999	415	470	759	405	683	191	140	116	332	234	163	236	88	44	2	11.5%	30%	
BUM	A+M	CP	Ghana	GN	t2	-1	b	ab	b	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	2			
BUM	A+M	CP	EU.France	LL	t1	252	299	333	370	397	428	443	443	450	470	470	461	584	498	344	461	395	212	393	406	0	3	10.8%	41%	
BUM	A+M	CP	EU.France	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3			
BUM	A+M	NCC	Chinese Taipei	LL	t1	660	1478	578	486	485	240	294	319	315	151	99	233	148	195	153	199	165	78	62	61	75	4	8.6%	49%	
BUM	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	4			
BUM	A+M	CP	Brazil	LL	t1	308	165	340	509	467	780	387	577	194	610	241	149	120	75	50	62	47	16	20	1	5	6.8%	56%		
BUM	A+M	CP	Brazil	LL	t2	a	a	a	ab	ab	ab	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a		5			
BUM	A+M	CP	Côte d'Ivoire	GN	t1	157	222	182	275	206	196	78	109	115	107	178	150	991	440	440	41	20	20	44	30	27	6	5.3%	61%	
BUM	A+M	CP	Côte d'Ivoire	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	-1	a	-1	-1	-1	a	a	a	ab	a	a	6			
BUM	A+M	NCO	NEI (ETRO)	LL	t1	435	548	803	761	492	274	17	14													7	4.4%	66%		
BUM	A+M	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1													7				
BUM	A+M	CP	Liberia	GN	t1	148	148	701	420	712	235	158	115													19	8	3.5%	69%	
BUM	A+M	CP	Liberia	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1													-1	8			
BUM	A+M	NCO	Mixed flags (FR+ES)	PS	t1	96	82	80	83	147	151	131	148	171	150	136	135	139	164	178	49						9	2.7%	72%	
BUM	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						9			
BUM	A+M	CP	EU.España	LL	t1	158	122	195	125	140	94	28	12	51	24	91	38	55	60	165	16	34	44	137	212	140	10	2.6%	74%	
BUM	A+M	CP	EU.España	LL	t2	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	b	b	b	-1	10			
BUM	A+M	CP	Venezuela	GN	t1	71	86	175	190	80	57	50	55	57	110	118	184	105	69	94	63	88	60	98		11	2.4%	77%		
BUM	A+M	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a			11			
BUM	A+M	CP	China PR	LL	t1	62	78	120	201	23	92	88	89	58	96			65	13	77	100	99	61	45	40	50	12	2.0%	79%	
BUM	A+M	CP	China PR	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a		-1	a	a	a	a	a	a	a	a	a	12			
BUM	A+M	CP	Mexico	LL	t1	13	13	27	35	68	37	50	70	90	86	65	91	82	93	89	68	106	86	67	72	66	13	1.8%	81%	
BUM	A+M	CP	Mexico	LL	t2	a	a	a	a	a	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	ab	ab	13			
BUM	A+M	NCO	Togo	GN	t1		23		73	53	141	103	775														14	1.5%	82%	
BUM	A+M	NCO	Togo	GN	t2		-1		-1	-1	-1	-1	-1														14			
BUM	A+M	CP	U.S.A.	LL	t1	197	139	51	83	60	22	37	19	34	24	36	42	37	40	19	50	38	55	53	81	24	15	1.5%	84%	
BUM	A+M	CP	U.S.A.	LL	t2	a	a	a	ab	a	a	ac	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	15			
BUM	A+M	CP	Venezuela	LL	t1	72	56	51	50	45	27	38	65	44	51	53	37	25	51	57	53	56	52	41	60	83	16	1.4%	85%	
BUM	A+M	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	16			
BUM	A+M	CP	EU.Portugal	LL	t1			6	5	4	8	6	31	27	48	105	135	157	106	139	54	53	25	22	45	50	17	1.4%	87%	
BUM	A+M	CP	EU.Portugal	LL	t2			a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab		17			
BUM	A+M	NCO	NEI (BIL)	LL	t1				53	50	67	82	61	7	98	209	143	177									18	1.3%	88%	
BUM	A+M	NCO	NEI (BIL)	LL	t2				-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								18			
BUM	A+M	NCO	Sta. Lucia	TR	t1								18	17	21	53	46	70	72	58	64	119	99	111	53	19	1.1%	89%		
BUM	A+M	NCO	Sta. Lucia	TR	t2								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		19			
BUM	A+M	CP	Korea Rep.	LL	t1	144	56	2	3	1	1			0	1	6	33	64	91	36	85	62	34	24	11	5	20	0.9%	90%	
BUM	A+M	CP	Korea Rep.	LL	t2	a	a	a	a	-1	a			a	a	a	a	a	a	a	-1	a	abc	ab	ab	a	20			
BUM	A+M	NCO	NEI (BIL)	UN	t1					134	191	85	28			62		62									21	0.7%	91%	
BUM	A+M	NCO	NEI (BIL)	UN	t2					-1	-1	-1	-1			-1		-1									21			
BUM	A+M	CP	Brazil	UN	t1		146							1	0	57	104	62	74	83	1	1				22	0.7%	91%		
BUM	A+M	CP	Brazil	UN	t2		-1							-1	-1	-1	-1	-1	-1	-1	-1	-1					22			
BUM	A+M	CP	S. Tomé e Príncipe	TR	t1	36	35	33	30	32	32	32	32	9	21	26		65	67	68						9	23	0.7%	92%	
BUM	A+M	CP	S. Tomé e Príncipe	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		-1	-1	-1						-1	23			
BUM	A+M	NCO	Grenada	LL	t1						69	72	45	42	33	49	54	45	45	45							24	0.7%	93%	
BUM	A+M	NCO	Grenada	LL	t2						-1	a	a	a	a	a	a	-1	-1	-1							24			
BUM	A+M	CP	Trinidad and Tobago	LL	t1	12	49	15	20	5	14	9	9	10	7	12	14	34	19	22	25	45	48	48	35	19	25	0.6%	93%	
BUM	A+M	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a		25		
BUM	A+M	CP	Senegal	SP	t1													96	37	29	64	154	24	62		26	0.6%	94%		
BUM	A+M	CP	Senegal	SP	t2												-1	a	a	a	a	a	a				26			
BUM	A+M	NCO	Dominica	HL	t1					64	69					41	23	85	46	76	57					27	0.6%	94%		
BUM	A+M	NCO	Dominica	HL	t2					-1	-1					a	a	a	a	-1	a						27			
BUM	A+M	NCO	Grenada	UN	t1	26	47	60	100	87	104																28	0.6%	95%	
BUM	A+M	NCO	Grenada	UN	t2	-1	-1	-1	-1	-1	-1																28			
BUM	A+M	CP	U.S.A.	RR	t1	35	46	50	37	24	16	17	19	26	16	17	9	13	6	4	6	14	9	1	9	30	29	0.5%	96%	
BUM	A+M	CP	U.S.A.	RR	t2	ab	ab	ab	ab	ab	a	ab	ab																	

Table16. WHM-A stock (AT + MD)

					T1 Total	1679	1517	1912	1736	1521	1088	1010	844	823	751	610	680	670	714	495	537	460	372	380	457	452				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
WHM	A+M	NCC	Chinese Taipei	LL	t1	566	441	506	465	437	152	178	104	172	56	44	54	38	28	20	28	17	7	7	10	10	1	17.9%	18%	
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	1			
WHM	A+M	CP	Venezuela	LL	t1	258	168	297	210	166	176	198	158	116	143	169	103	47	109	108	154	106	63	74	104	158	2	16.5%	34%	
WHM	A+M	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	2			
WHM	A+M	NCO	NEI (ETRO)	LL	t1	285	359	526	498	322	180	11	9													3	11.7%	46%		
WHM	A+M	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1													3				
WHM	A+M	CP	Brazil	LL	t1	70	105	102	158	106	172	342	266	80	243	87	63	41	32	30	59	67	38	45	33	4	11.4%	57%		
WHM	A+M	CP	Brazil	LL	t2	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	141	93	101	119	186	61	6	22	64	58	51	46	32	16	111	5	34	37	93	113	89	5	7.9%	65%	
WHM	A+M	CP	EU.España	LL	t2	b	ab	b	b	b	b	b	b	b	b	b	b	b	b	b	-1	-1	b	b	b	-1	5			
WHM	A+M	NCO	NEI (BIL)	LL	t1					34	77	4	30	134	42	31	170	189	199							6	4.9%	70%		
WHM	A+M	NCO	NEI (BIL)	LL	t2					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							6				
WHM	A+M	CP	Japan	LL	t1	112	58	56	40	83	56	16	33	36	34	39	21	34	43	41	31	42	24	6	8	9	7	4.4%	75%	
WHM	A+M	CP	Japan	LL	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	a	7				
WHM	A+M	CP	U.S.A.	LL	t1	65	70	32	57	41	17	29	17	27	17	9	8	9	13	8	59	20	10	11	8	3	8	2.8%	77%	
WHM	A+M	CP	U.S.A.	LL	t2	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	59	23		0				11	40	7		113	96	78	45	45			0	9	2.8%	80%			
WHM	A+M	CP	Korea Rep.	LL	t2	a	a		-1				-1	a	a		-1	a	a	-1	-1		ab			9				
WHM	A+M	CP	S. Tomé e Príncipe	TR	t1	30	45	40	36	37	37	37	37	21	33	29		36	37	38					15	10	2.7%	83%		
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	10				
WHM	A+M	CP	Mexico	LL	t1	3	5	6	11	18	44	15	15	28	25	16	14	14	19	20	28	36	30	20	26	20	11	2.2%	85%	
WHM	A+M	CP	Mexico	LL	t2	a	a	a	a	a	-1	-1	a	a	a	a	a	a	a	a	ab	a	a	a	ab	ab	11			
WHM	A+M	CP	Trinidad and Tobago	LL	t1	8	32	10	13	4	2	5	12	6	6	5	12	10	11	15	14	39	33	38	32	20	12	1.7%	87%	
WHM	A+M	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	12			
WHM	A+M	CP	Venezuela	GN	t1	2	3	13	18	12	7	17	10	19	13	21	28	16	19	8	6	15	12	15		13	1.4%	88%		
WHM	A+M	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	a		13			
WHM	A+M	CP	Brazil	UN	t1		115							0	0	4	8	15	21	6	0	1			82	14	1.3%	90%		
WHM	A+M	CP	Brazil	UN	t2		-1							-1	-1	-1	-1	-1	-1	-1	-1	-1		-1	14					
WHM	A+M	CP	Barbados	LL	t1		41	33	25	25	24	15	15			33				3	2	4	5	5	10	12	15	1.3%	91%	
WHM	A+M	CP	Barbados	LL	t2		-1	-1	-1	-1	-1	-1	-1			-1			-1	a	a	a	a	ab	ab	15				
WHM	A+M	CP	EU.Portugal	LL	t1							5	19	30	22	2	35	2	40	11	18	22	10	8	7	11	16	1.3%	92%	
WHM	A+M	CP	EU.Portugal	LL	t2							a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	16				
WHM	A+M	NCO	Mixed flags (FR+ES)	PS	t1	7	7	9	8	12	13	12	13	13	11	10	9	10	12	12	37					17	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					17				
WHM	A+M	CP	S. Tomé e Príncipe	PS	t1															39	40	41	42	17		18	1.0%	94%		
WHM	A+M	CP	S. Tomé e Príncipe	PS	t2															-1	-1	-1	-1	-1		18				
WHM	A+M	CP	China PR	LL	t1	9	11	15	30	2	20	23	8	6	9	6	10	5	9	8	3	4	2		0	0	19	1.0%	95%	
WHM	A+M	CP	China PR	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a		a	a	19			
WHM	A+M	CP	Liberia	GN	t1	1	1	3	8	4	3	4	3													98	20	0.7%	96%	
WHM	A+M	CP	Liberia	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1													-1	20			
WHM	A+M	CP	Brazil	BB	t1							65									0		47			21	0.6%	96%		
WHM	A+M	CP	Brazil	BB	t2							-1									-1		-1		a	21				
WHM	A+M	NCO	Grenada	LL	t1							8		33	10	12	11	17	14							22	0.6%	97%		
WHM	A+M	NCO	Grenada	LL	t2							-1		a	a	a	a	a	-1							22				
WHM	A+M	CP	Uruguay	LL	t1	1	24	22				1	9	2	5	9	3		5							23	0.4%	97%		
WHM	A+M	CP	Uruguay	LL	t2	-1	-1	-1				-1	-1	-1	-1	-1	-1		-1							23				
WHM	A+M	CP	Canada	LL	t1	8	8	8	5	5	3	2	1	1	4	3	2	2	1	2	1	2	2	5	3	1	24	0.4%	98%	
WHM	A+M	CP	Canada	LL	t2	a	a	a	ab	ab	abc	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	abc	abc	abc	ab	ab	ab	24		

Table17. SAI-E stock

					T1 Total	1881	1347	1362	1342	1980	2806	2351	2639	2608	2218	1916	2577	2229	2129	1853	1508	1591	1338	1159	1240	1421			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
SAI	ATE	CP	Ghana	GN	t1	303	196	351	305	275	568	592	566	521	542	282	420	342	358	417	299	201	220	191	99	238	1	18.5%	18%
SAI	ATE	CP	Ghana	GN	t2	-1	b	ab	b	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	a	a	a	1		
SAI	ATE	NCO	Mixed flags (FR+ES)	PS	t1	97	110	138	131	353	400	365	413	336	264	274	205	251	308	265	275	275	275	275	275	2	13.4%	32%	
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	2			
SAI	ATE	CP	Senegal	HL	t1	182	488	228	186	551	767	98	282	219	143	46	189	108	497	357	122	30	114	5	53	3	11.8%	44%	
SAI	ATE	CP	Senegal	HL	t2	-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	42	48	15	20	8	195	245	197	169	202	214	227	239	318	206	197	257	229	302	333	225	4	9.8%	53%
SAI	ATE	CP	EU.España	LL	t2	b	b	b	b	b	b	b	b	b	b	b	-1	-1	b	b	-1	-1	b	b	-1	4			
SAI	ATE	CP	Senegal	TR	t1	52	59	24	44	213	155	123	337	343	296	177	512	158	18			104	25		213	5	7.2%	61%	
SAI	ATE	CP	Senegal	TR	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	-1		b	b	a	b	b	5			
SAI	ATE	CP	S. Tomé e Príncipe	TR	t1	96	139	141	141	136	136	136	136	515	346	292	384	8	8	10					212	6	7.2%	68%	
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	6			
SAI	ATE	CP	Côte d'Ivoire	GN	t1	91	65	35	80	45	47	65	121	73	93	78	52	448	74	24	108	192	80	99	52	38	7	5.0%	73%
SAI	ATE	CP	Côte d'Ivoire	GN	t2	ab	ab	ab	ab	ab	ab	ab	ab	ab	-1	-1	a	-1	-1	-1	a	a	a	ab	a	a	7		
SAI	ATE	CP	Japan	LL	t1	47	19	58	16	26	6	20	22	70	50	62	144	199	94	115	143	157	71	59	36	52	8	3.7%	77%
SAI	ATE	CP	Japan	LL	t2	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	a	a	8		
SAI	ATE	CP	Liberia	GN	t1	85	43	136	122	154	56	133	127	106	122	118	115									9	3.3%	80%	
SAI	ATE	CP	Liberia	GN	t2	-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	24	56	44	66	45	50	62	49	15	25	36	109	121	80	21	52	59	42	17	21	23	11	2.6%	85%
SAI	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	ab	11		
SAI	ATE	CP	Senegal	GN	t1	6	3	5	0	8	28	19	15	1	22	27	28	180	35	45	38	85	21	26	7	373	12	2.5%	88%
SAI	ATE	CP	Senegal	GN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	-1	-1	b	b	b	a	ab	b	12		
SAI	ATE	CP	EU.Portugal	LL	t1		27	42	9	1	5	10	6	11	137	43	49	112	142	96	70	108	33	41	30	13	2.5%	90%	
SAI	ATE	CP	EU.Portugal	LL	t2		-1	a	a	a	a	a	a	a	a	a	ab	a	a	ab	ab	ab	ab	a	ab	13			
SAI	ATE	NCO	NEI (BIL)	UN	t1						255	365	162	53												14	2.1%	92%	
SAI	ATE	NCO	NEI (BIL)	UN	t2						-1	-1	-1	-1												14			
SAI	ATE	NCO	Togo	GN	t1		9	22	36	23	62	55	95	135	47	31	71									15	1.5%	94%	
SAI	ATE	NCO	Togo	GN	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									15			
SAI	ATE	NCO	NEI (ETRO)	LL	t1	69	86	127	120	77	43	3	2	16	7	8	10									16	1.4%	95%	
SAI	ATE	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									16			
SAI	ATE	NCO	Cuba	UN	t1	533																				17	1.3%	97%	
SAI	ATE	NCO	Cuba	UN	t2	-1																				17			
SAI	ATE	NCO	NEI (BIL)	LL	t1					28	15	42	51	2	1	105	43	20	11							18	0.8%	97%	
SAI	ATE	NCO	NEI (BIL)	LL	t2					-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							18			
SAI	ATE	CP	Gabon	GN	t1	218	2			0		4														19	0.6%	98%	
SAI	ATE	CP	Gabon	GN	t2	-1	-1			-1		-1														19			
SAI	ATE	CP	Senegal	SP	t1														78	82	14	28	4	4		20	0.5%	99%	
SAI	ATE	CP	Senegal	SP	t2														a	a	a	a	a	a		20			

Table18. SAI-W stock

					T1 Total	1142	1257	1613	1580	1996	1797	2060	1498	1727	1839	1939	1561	1733	1624	1235	1313	1267	947	851	874	739				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SAI	ATW	CP	Venezuela	LL	t1	167	165	333	227	190	186	188	233	387	476	907	363	269	320	409	498	404	262	112	152	246	1	21.2%	21%	
SAI	ATW	CP	Venezuela	LL	t2	ab	ab	ab	ab	ab	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	1			
SAI	ATW	CP	EU.España	LL	t1	5	20	42	7	14	309	414	183	160	89	134	214	361	412	275	190	184	203	244	311	207	2	13.0%	34%	
SAI	ATW	CP	EU.España	LL	t2	b	b	-1	b	b	b	b	b	-1	b	b	-1	b	b	b	-1	-1	-1	-1	b	-1	2			
SAI	ATW	CP	Brazil	LL	t1	76	69	106	278	531	412	325	347	208	415	82	59	75	73	76	135	106	25	57	30	3	11.4%	46%		
SAI	ATW	CP	Brazil	LL	t2	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	8.0%	54%		
SAI	ATW	NCO	Grenada	LL	t2							-1	a	a	a	a	a	a	-1	-1	-1	-1	-1	-1	-1	-1	4			
SAI	ATW	CP	Venezuela	GN	t1	88	114	182	140	71	64	88	93	122	131	135	186	113	96	89	92	139	79	98		5	6.9%	61%		
SAI	ATW	CP	Venezuela	GN	t2	ab	ab	ab	ab	ab	ab	b	b	b	b	b	b	b	b	ab	ab	ab	ab	a		5				
SAI	ATW	CP	Brazil	UN	t1	224	67	78	78	67		222	238	326	0	58	60	193	360	1	0	0			21	6	6.5%	67%		
SAI	ATW	CP	Brazil	UN	t2	-1	-1	-1	-1	-1		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6				
SAI	ATW	NCO	Dominican Republic	UN	t1	40	101	89	27	67	81	260	91	144	165	133	147									7	4.4%	72%		
SAI	ATW	NCO	Dominican Republic	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7				
SAI	ATW	CP	U.S.A.	RR	t1	230	349	267	163	76	58	103		0	0	0	0	3	3	0	0	7	3	2	2	3	8	4.2%	76%	
SAI	ATW	CP	U.S.A.	RR	t2	ab	b	ab	b	b	-1	b	b	b	b	b	b	b	ab	b	b	b	b	b	ab	b	8			
SAI	ATW	CP	Mexico	LL	t1	10	9	65	40	118	36	34	45	51	55	42	47	45	48	34	32	51	63	42	35	47	9	3.1%	79%	
SAI	ATW	CP	Mexico	LL	t2	a	a	a	a	a	-1	a	a	a	a	a	abc	a	a	a	a	a	a	a	ab	ab	9			
SAI	ATW	NCO	Cuba	UN	t1	37	40	28	196	208	68	32	18	50	72	47	56									10	2.8%	82%		
SAI	ATW	NCO	Cuba	UN	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	10				
SAI	ATW	NCO	Grenada	UN	t1	56	83	151	148	164	187															11	2.6%	84%		
SAI	ATW	NCO	Grenada	UN	t2	-1	-1	-1	-1	-1	-1	-1														11				
SAI	ATW	CP	Barbados	LL	t1	25	71	58	44	44	42	26	27	26	42	58	42			16	29	25	35	37	53	45	12	2.4%	87%	
SAI	ATW	CP	Barbados	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	12			
SAI	ATW	NCO	NEI (BIL)	LL	t1					297	267						81	59	17							13	2.4%	89%		
SAI	ATW	NCO	NEI (BIL)	LL	t2					-1	-1						-1	-1	-1							13				
SAI	ATW	CP	St. Vincent and Grenadines	LL	t1						2	164	3	86	73	59	18	13	8	7	4	4	3	4	1	85	14	1.7%	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	14				
SAI	ATW	CP	Trinidad and Tobago	LL	t1	4	10	25	37	3	7	6	7	10	9	17	13	32	16	16	32	60	28	23	51	48	15	1.5%	92%	
SAI	ATW	CP	Trinidad and Tobago	LL	t2	-1	-1	-1	-1	-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	15			
SAI	ATW	CP	U.S.A.	LL	t1	69	57	27	72	45	11	7	5	7	3	5	7	9	10		4	10	18	11	6	7	16	1.3%	93%	
SAI	ATW	CP	U.S.A.	LL	t2	a	a	a	ab	a	a	ac	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	16			
SAI	ATW	CP	EU.Portugal	LL	t1					4				12	12	110	18	53	101	20	19	9	2			17	1.2%	95%		
SAI	ATW	CP	EU.Portugal	LL	t2				a	a			a	a	a	a	a	a	ab	a	a	ab	ab	ab	ab	a	ab	17		
SAI	ATW	NCC	Chinese Taipei	LL	t1	19	2	65	17	11	33	31	13	8	21	5	14	10	11	6	8	27	6	3	6	5	18	1.0%	96%	
SAI	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	a	a	a	a	a	a	a	-1	-1	a	ab	ab	ab	ab	ab	ab	ab	18			
SAI	ATW	NCO	NEI (ETRO)	LL	t1	36	46	67	64	41	23	1	1	9	4	4	6									19	1.0%	97%		
SAI	ATW	NCO	NEI (ETRO)	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19				
SAI	ATW	CP	Japan	LL	t1	4	17	3	10	12	3	3	10	5	22	4	1	33	43	36	12	16	7	11	12	13	20	0.9%	98%	
SAI	ATW	CP	Japan	LL	t2	a	a	ab	ab	ab	a	ab	a	ab	a	ab	ab	ab	ab	ab	ab	a	a	ab	a	a	20			

Table19. SPF-E stock

				T1 Total		128	194	192	257	181	81	84	54	51	68	84	66	60	78	128	69	170	95	16	18	15			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
SPF	ATE	CP	Japan	LL	t1	25	30	22	33	29	20	16	25	36	40	21	36	53	59	49	39	134	85	3	0	4	1	36.3%	36%
SPF	ATE	CP	Japan	LL	t2	a	a	ab	ab	ab	ab	ab	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	a	a	1		
SPF	ATE	NCC	Chinese Taipei	LL	t1	41	94	73	112	75	52	62	25	15	25	37	22	2	6	16	9	6	0	0	1	1	2	32.3%	69%
SPF	ATE	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	a	ab	ab	ab	ab	ab	ab	a	2		
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t1	59	68	86	81	60																3	17.0%	86%	
SPF	ATE	NCO	Mixed flags (FR+ES)	PS	t2	-1	-1	-1	-1	-1																3			
SPF	ATE	CP	EU.España	LL	t1	1	1	9	31	17	9	6	5													4	9.3%	95%	
SPF	ATE	CP	EU.España	LL	t2	b	b	b	b	b	b	b	-1		b	b		-1	b	b	-1	-1	b	b	-1	-1	4		
SPF	ATE	CP	EU.Portugal	LL	t1																					5	4.5%	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																					6			
SPF	ATE	CP	Korea Rep.	LL	t1	3	1																			7	0.2%	100%	
SPF	ATE	CP	Korea Rep.	LL	t2	-1	a																			7			
SPF	ATE	CP	China PR	LL	t1			2																	0	0	8	0.1%	100%
SPF	ATE	CP	China PR	LL	t2			-1																		8			
SPF	ATE	CP	South Africa	LL	t1																					9	0.0%	100%	
SPF	ATE	CP	South Africa	LL	t2																					9			
SPF	ATE	CP	St. Vincent and Grenadines	LL	t1																					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		37	7	74	50	97	107	95	79	137	101	256	102	106	62	117	78	58	38	36	59	63				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SPF	ATW	CP	Japan	LL	t1	4	1	8	11	11	3	12	40	41	58	54	25	45	26	57	12	13	3	1		1	24.2%	24%		
SPF	ATW	CP	Japan	LL	t2	a	a	ab	ab	ab	ab	ab	a	a	a	a	a	ab	ab	ab	ab	ab	a	ab	b		1			
SPF	ATW	CP	St. Vincent and Grenadines	LL	t1									82		135	23	13	7	8	5	4	3	3	1	7	2	16.5%	41%	
SPF	ATW	CP	St. Vincent and Grenadines	LL	t2								a			a	a	a	a	a	a	a	a	a	a		2			
SPF	ATW	NCC	Chinese Taipei	LL	t1	18	2	64	16	11	24	39	12	11	20	17	20	0		5	12	3	1	3	1	2	3	16.0%	57%	
SPF	ATW	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		ab	ab	ab	a	ab	ab	ab		3		
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	35	4	12.3%	69%	
SPF	ATW	CP	Venezuela	LL	t2	a	ab	ab	ab		-1	-1	a	a	a	a	a	a	a	a	a	a	a	a	a	a	4			
SPF	ATW	CP	EU.España	LL	t1		0	0	22	47	20	5	21		5	14		2	5		10	10	9	11	19	14	5	12.2%	81%	
SPF	ATW	CP	EU.España	LL	t2	b	b	-1	b	b	b	b	b		b	b		-1	b	b		-1	-1	b	b	-1	-1	5		
SPF	ATW	CP	Brazil	LL	t1					27	56	39	3		0	5	4				24	4	11		5		6	10.2%	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											26	15	44	10	10	0	1				7	6.0%	97%		
SPF	ATW	CP	EU.Portugal	LL	t2											a	a	a	a	a	a		-1	a			7			
SPF	ATW	CP	Belize	LL	t1																12	3					8	0.8%	98%	
SPF	ATW	CP	Belize	LL	t2																a	a					8			
SPF	ATW	CP	Korea Rep.	LL	t1	10	4																				9	0.8%	99%	
SPF	ATW	CP	Korea Rep.	LL	t2	-1	-1																				9			
SPF	ATW	CP	Brazil	HL	t1																				6		10	0.4%	99%	
SPF	ATW	CP	Brazil	HL	t2																			-1			10			
SPF	ATW	CP	Mexico	LL	t1					1													0			4	11	0.3%	100%	
SPF	ATW	CP	Mexico	LL	t2	a				-1													-1		a	a		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	U.S.A.	LL	t1	1																					13	0.1%	100%	
SPF	ATW	CP	U.S.A.	LL	t2	a	a	a	a	a	a	a									a				a		13			
SPF	ATW	CP	China PR	LL	t1																					1	14	0.0%	100%	
SPF	ATW	CP	China PR	LL	t2																	a			a	a		14		
SPF	ATW	CP	Brazil	UN	t1																				1		15	0.0%	100%	
SPF	ATW	CP	Brazil	UN	t2																				-1		15			

Table21. BSH-N region

					T1 Total	7395	29283	26763	26172	28174	21709	20066	23005	21742	22359	23217	26927	30723	35198	37178	38083	36778	37058	36574	39626	43740			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
BSH	ATN	CP	EU.España	LL	t1		24497	22504	21811	24112	17362	15666	15975	17314	15006	15464	17038	20788	24465	26094	27988	28666	28562	29041	30078	29019	1	73.8%	74%
BSH	ATN	CP	EU.España	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	-1	1		
BSH	ATN	CP	EU.Portugal	LL	t1	4843	2630	2440	2227	2081	2110	2265	5642	1751	4026	4337	5283	6164	6248	8256	6508	3725	3694	2994	3808	7679	2	14.5%	88%
BSH	ATN	CP	EU.Portugal	LL	t2	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2		
BSH	ATN	CP	Japan	LL	t1	618	489	340	357	273	350	386	558	1035	1729	1434	1921	2531	2007	1763	1227	2437	1808	3287	4011	4239	3	5.4%	94%
BSH	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a	a	a	a	a	3		
BSH	ATN	CP	Canada	LL	t1	528	831	612	547	624	581	836	346	965	1134	977	843	0	0	0	0	1	0	1	5	16	4	1.4%	95%
BSH	ATN	CP	Canada	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	4		
BSH	ATN	CP	Belize	LL	t1														114	461	1039	903	1216	392	4	6	5	0.7%	96%
BSH	ATN	CP	Belize	LL	t2														ab	ab	ab	ab	a	a	a	a	5		
BSH	ATN	NCC	Chinese Taipei	LL	t1	132	203	246	384	165	59		171	206	240	588	292	110	73	99	148	107	123	83	238	293	6	0.6%	96%
BSH	ATN	NCC	Chinese Taipei	LL	t2	-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	0.6%	97%	
BSH	ATN	CP	Panama	LL	t2				-1							a	a	a	a	a			a	a		7			
BSH	ATN	CP	U.S.A.	LL	t1	607	181	172	96	137	105	68	55	70	68	47	54	137	106	176	232	123	114	142	82	43	8	0.5%	98%
BSH	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	b	c	-1	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	8		
BSH	ATN	CP	EU.France	UN	t1	278	213	163	399	395	207	221	57	95	120	99	50	46	30	3	6	0	0	105	1	14	9	0.4%	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	a	-1	-1	9		
BSH	ATN	CP	China PR	LL	t1					185	104	148					367	109	88	53	109	98	327		1	27	10	0.3%	98%
BSH	ATN	CP	China PR	LL	t2					-1	-1	-1					a	a	a	a	a	a	a		ab	a	10		
BSH	ATN	CP	Maroc	PS	t1																				573	863	11	0.2%	98%
BSH	ATN	CP	Maroc	PS	t2																				-1	-1	11		
BSH	ATN	CP	Korea Rep.	LL	t1																537	299	327	113	18	11	12	0.2%	99%
BSH	ATN	CP	Korea Rep.	LL	t2																b	abc	abc	a	b	a	12		
BSH	ATN	CP	U.S.A.	SP	t1	277	210	252	216	291	39																13	0.2%	99%
BSH	ATN	CP	U.S.A.	SP	t2	-1	-1	-1	-1	-1	-1																13		
BSH	ATN	CP	Venezuela	LL	t1	4	26	6	47	42	46	28	38	9	26	10	18	7	71	74	116	96	51	111	129	116	14	0.2%	99%
BSH	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	a	a	a	a	14		
BSH	ATN	CP	Maroc	LL	t1																				300	760	15	0.2%	99%
BSH	ATN	CP	Maroc	LL	t2																				-1	-1	15		

Table22. BSH-S region

					T1 Total	4252	10145	8797	10829	12444	14043	12682	14967	14438	20642	20493	23487	23097	23459	27799	35069	26421	19682	26148	22342	24077			
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
BSH	ATS	CP	EU.España	LL	t1		5272	5574	7173	6951	7743	5368	6626	7366	6410	8724	8942	9615	13099	13953	16978	14348	10473	11447	10133	10107	1	47.1%	47%
BSH	ATS	CP	EU.España	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	-1	b	b	b	b	b	-1	1		
BSH	ATS	CP	EU.Portugal	LL	t1	867	1336	876	1110	2134	2562	2324	1841	1863	3184	2751	4493	4866	5358	6338	7642	2424	1646	1622	2420	5609	2	16.0%	63%
BSH	ATS	CP	EU.Portugal	LL	t2	-1	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	2		
BSH	ATS	CP	Namibia	LL	t1				0			2213	2316	1906	6616	3536	3419	1829	207	2351	2633	1176	1147	2471	2137	2775	3	9.3%	72%
BSH	ATS	CP	Namibia	LL	t2				-1			a	-1	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	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	8.2%	81%	
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	1952	1737	1559	1496	1353	665		521	800	866	1805	2177	1843	1356	1625	2142	2074	2257	2240	1854	1985	5	8.2%	89%
BSH	ATS	NCC	Chinese Taipei	LL	t2	-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	425	506	510	536	221	182	343	331	209	236	525	896	1789	981	1161	1483	3060	2255	3232	2278	2135	6	5.9%	95%
BSH	ATS	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	ab	ab	ab	a	a	a	a	a	6		
BSH	ATS	CP	Uruguay	LL	t1	259	180	248	118	81	66	85	480	462	376	232	337	359	942	208	725	433	130			7	1.4%	96%	
BSH	ATS	CP	Uruguay	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	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	402	356	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	ab	ab	8		
BSH	ATS	CP	China PR	LL	t1						565	316	452					585	40	109	41	131	84	64	20	30	9	0.6%	98%
BSH	ATS	CP	China PR	LL	t2						-1	-1	-1				a	a	a	a	a	a	ab	a	ab	9			
BSH	ATS	CP	Ghana	GN	t1																			1583	385	429	10	0.6%	98%
BSH	ATS	CP	Ghana	GN	t2																		a	a	a		10		
BSH	ATS	CP	Belize	LL	t1									37	259		236	109		273	243	483	234	171	105	167	11	0.6%	99%
BSH	ATS	CP	Belize	LL	t2									a	a	a	a	a		ab	ab	ab	a	a	a	a	11		
BSH	ATS	CP	S. Tomé e Príncipe	PS	t1																143	147	152	156	206	183	12	0.2%	99%
BSH	ATS	CP	S. Tomé e Príncipe	PS	t2																-1	-1	-1	-1	-1	-1	12		
BSH	ATS	CP	Korea Rep.	LL	t1															222	125	112	61	10	71	252	13	0.2%	99%
BSH	ATS	CP	Korea Rep.	LL	t2															b	b	abc	abc	a	a	ab	13		
BSH	ATS	CP	Brazil	UN	t1							99	3	53	9	374	6			66	0				157		14	0.2%	99%
BSH	ATS	CP	Brazil	UN	t2							-1	-1	-1	-1	-1	-1			-1	-1			-1		14			

Table23. BSH-M region

					T1 Total	2	150	63	22	45	47	17	11	125	72	178	50	81	185	216	40	42	100	235	85	79				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	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	58	1	37.5%	38%	
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	ab	1			
BSH	MED	CP	EU.Italy	UN	t1									67		95							3	44		2	20.3%	58%		
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	17.9%	76%		
BSH	MED	CP	EU.Italy	LL	t2									-1	-1		-1	-1	-1				-1	-1	-1	3				
BSH	MED	CP	EU.Italy	GN	t1									12			2		166							4	9.8%	86%		
BSH	MED	CP	EU.Italy	GN	t2									-1			-1		-1						-1	4				
BSH	MED	CP	EU.Portugal	LL	t1			2		5	41	14	3		56	22					2					5	7.7%	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		1	6	1.7%	95%		
BSH	MED	CP	EU.Italy	TW	t2													-1	-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.Malta	LL	t1													1	1	2	1	1	2	2	4	5	3	8	1.2%	97%
BSH	MED	CP	EU.Malta	LL	t2				a	a							a	ab	ab	ab	ab	ab	abc	ab	abc	a	ab	8		
BSH	MED	CP	EU.France	LL	t1														0	0	0	0	3	4	14	9	1.2%	99%		
BSH	MED	CP	EU.France	LL	t2														-1	-1	-1	-1	-1	b	-1	9				
BSH	MED	CP	EU.Malta	UN	t1		1	2	2	2	1	1	1	0		0	0									10	0.6%	99%		
BSH	MED	CP	EU.Malta	UN	t2		-1	-1	-1	-1	-1	-1	-1	-1		-1	-1									10				
BSH	MED	CP	Japan	LL	t1		1	1						1	1	2				2	0					11	0.5%	100%		
BSH	MED	CP	Japan	LL	t2		-1	-1						-1	-1	-1			-1	a						11				

Table24. POR-N region

					T1 Total	1556	1833	1451	1393	1457	507	838	604	725	539	470	512	524	421	119	68	111	156	29	56	20				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
POR	ATN	CP	Canada	LL	t1	1045	1322	1055	956	899		223	130	220	191	184	83	115	50	65	22	29	16	8	3	2	1	49.4%	49%	
POR	ATN	CP	Canada	LL	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	abc	ab	ab	ab	ab	ab	a	1			
POR	ATN	CP	EU.France	UN	t1	267	315	219	240	410	361	461	303	194	276	194	83	83	153								2	26.6%	76%	
POR	ATN	CP	EU.France	UN	t2	-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			0	3	5.1%	81%		
POR	ATN	CP	EU.France	LL	t2								-1				-1	-1	-1		-1	-1			-1	3				
POR	ATN	CP	EU.Denmark	UN	t1	72	69	85	107	73	76	42								0		2				4	3.9%	85%		
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	41	25	25	18	13	24	54	27	11	14	34	8	41	77		0					5	3.1%	88%		
POR	ATN	CP	EU.España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		-1					5				
POR	ATN	CP	EU.Portugal	LL	t1				0	7	4	10	101	50	14	6	0	3	17	7	0	0				6	1.6%	90%		
POR	ATN	CP	EU.Portugal	LL	t2				-1	-1	-1	a	a	a	a	a	a	a	a	a	a	a			ab	b	6			
POR	ATN	CP	Japan	LL	t1	5	4											12	10	13	13	14	49	98	0	0	2	7	1.6%	91%
POR	ATN	CP	Japan	LL	t2	-1	-1											-1	-1	ab	ab	ab	a	a	a	a	7			
POR	ATN	CP	Norway	UN	t1	28	17	27	32	22			19			1	8	9	6	12	11	17				8	1.6%	93%		
POR	ATN	CP	Norway	UN	t2	-1	-1	-1	-1	-1			-1			-1	-1	-1	-1	-1	-1	-1	-1			8				
POR	ATN	CP	U.S.A.	LL	t1	78	56	9	0	1	0	1	0	1	0	0	0	0	0	3	2	0	2	7	34	1	9	1.5%	94%	
POR	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	9			
POR	ATN	CP	Canada	GN	t1	4	8	11	6	2	7	12	11	10	10	6	10	8	11	18	7	2	0	1	1	0	10	1.1%	96%	
POR	ATN	CP	Canada	GN	t2	a	a	a	a	a	a	a	a	a	a	a	a	a	a	ac	a	a	a	a	a	a	10			
POR	ATN	CP	EU.Ireland	UN	t1			8	2	6	3	11	18			4	8	7		0						11	0.5%	96%		
POR	ATN	CP	EU.Ireland	UN	t2			-1	-1	-1	-1	-1	-1			-1	-1	-1		-1						11				
POR	ATN	CP	EU.France	TW	t1								24					22	14		1	3			3	12	0.5%	97%		
POR	ATN	CP	EU.France	TW	t2								-1					-1	-1		-1	-1			-1	12				
POR	ATN	CP	Norway	GN	t1					6	3				8	26	1	2	2				8			5	13	0.5%	97%	
POR	ATN	CP	Norway	GN	t2					-1	-1				-1	-1	-1	-1	-1				-1		-1	13				
POR	ATN	CP	U.S.A.	RR	t1															8	4	27	7	9	5	14	0.5%	97%		
POR	ATN	CP	U.S.A.	RR	t2																-1	-1	-1	-1	-1	b	14			
POR	ATN	CP	EU.United Kingdom	GN	t1										8	10	14	13	10							15	0.4%	98%		
POR	ATN	CP	EU.United Kingdom	GN	t2										a	a	a		-1	a					b	b	15			

Table25. POR-S region

				T1 Total	3	26	17	10	11	1	11	43	17	31	37	13	85	62	16	21	37	29	38	4	1				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
POR	ATS	CP	Uruguay	LL	t1		5	14	3	4		8	34	8	28	34	3	40	14	6	12	12				1	44.1%	44%	
POR	ATS	CP	Uruguay	LL	t2		-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	13	4	1	2	33.2%	77%
POR	ATS	CP	Japan	LL	t2	-1	-1										-1	-1	a	a	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	10.4%	88%
POR	ATS	CP	EU.España	LL	t2		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								3		
POR	ATS	CP	Ghana	PS	t1																						4	4.9%	93%
POR	ATS	CP	Ghana	PS	t2																			-1			4		
POR	ATS	CP	Korea Rep.	LL	t1																		14			5	2.7%	95%	
POR	ATS	CP	Korea Rep.	LL	t2																	abc			b	5			
POR	ATS	NCO	Benin	UN	t1		4	0	4																	6	1.5%	97%	
POR	ATS	NCO	Benin	UN	t2		-1	-1	-1																	6			
POR	ATS	CP	EU.Portugal	LL	t1									4	2										a	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	1	0	0	8	0.7%	99%	
POR	ATS	NCC	Chinese Taipei	LL	t2															a	-1	a	a	-1	-1	8			
POR	ATS	CP	Brazil	LL	t1																2					9	0.4%	99%	
POR	ATS	CP	Brazil	LL	t2								a								-1				a	9			
POR	ATS	NCO	Falklands	TW	t1	0	0	1	0	0																10	0.3%	100%	
POR	ATS	NCO	Falklands	TW	t2	-1	-1	-1	-1	-1																10			
POR	ATS	CP	Japan	TW	t1		0	0	1																	11	0.2%	100%	
POR	ATS	CP	Japan	TW	t2		-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	NCO	Falklands	LL	t1							0														13	0.1%	100%	
POR	ATS	NCO	Falklands	LL	t2							-1														13			
POR	ATS	CP	EU.Netherlands	TW	t1													0								14	0.0%	100%	
POR	ATS	CP	EU.Netherlands	TW	t2													-1								14			

Table26. SMA-N region

					T1 Total	5346	3580	3879	2791	2592	2682	3416	3923	3864	3479	3378	4083	3566	4116	4188	3771	4478	3646	2904	3232	3377				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum	
SMA	ATN	CP	EU.España	LL	t1	3294	2416	2223	2051	1561	1684	2047	2068	2088	1751	1918	1816	1895	2216	2091	1667	2308	1509	1481	1362	1574	1	53.8%	54%	
SMA	ATN	CP	EU.España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	b	-1	1			
SMA	ATN	CP	EU.Portugal	LL	t1	691	354	307	327	318	378	415	1249	399	1109	951	1540	1033	1169	1432	1045	1023	817	209	213	257	2	20.0%	74%	
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	790	258	892	120	138	105	438	267	572			82	131	98	116	53	56	33	69	45	75	3	5.7%	79%	
SMA	ATN	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	-1	ab	ab	ab	a	a	a	a	a	3			
SMA	ATN	CP	U.S.A.	LL	t1	234	242	195	89	164	181	167	141	188	187	129	222	197	221	226	213	198	190	207	341	136	4	5.3%	85%	
SMA	ATN	CP	U.S.A.	LL	t2	-1	-1	-1	-1	-1	-1	-1	b	b	b	b	b	b	ab	ab	ab	ab	ab	ab	ab	ab	4			
SMA	ATN	CP	Maroc	LL	t1																390	380	616	580	807	1000	5	4.9%	90%	
SMA	ATN	CP	Maroc	LL	t2																-1	a	a	-1	a	ab	5			
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	163	6	3.5%	93%	
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	b	7			
SMA	ATN	CP	U.S.A.	SP	t1	232	164	148	69	290	214	248															7	1.8%	95%	
SMA	ATN	CP	U.S.A.	SP	t2	-1	-1	-1	-1	-1	-1	-1	-1														7			
SMA	ATN	CP	Canada	LL	t1	56	99	55	54	59	60	61	63	69	74	64	64	39	50	39	37	28	35	53	84	82	8	1.6%	97%	
SMA	ATN	CP	Canada	LL	t2	a	a	a	a	a	a	-1	a	a	a	-1	-1	-1	a	abc	ab	ab	ab	ab	ab	ab	8			
SMA	ATN	NCC	Chinese Taipei	LL	t1	16	25	31	48	21	7		84	57	19	30	25	23	11	14	13	15	8	4	15	8	9	0.6%	97%	
SMA	ATN	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1		ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	ab	ab	9			
SMA	ATN	CP	Maroc	PS	t1																30	26	51	44	140	50	10	0.4%	98%	
SMA	ATN	CP	Maroc	PS	t2																-1	-1	-1	-1	-1	-1	10			
SMA	ATN	CP	Belize	LL	t1														23	28	69	114	99	1	1	1	11	0.4%	98%	
SMA	ATN	CP	Belize	LL	t2														ab	ab	ab	ab	-1	-1	-1	a	11			
SMA	ATN	CP	Venezuela	LL	t1	12	3	1	2	2	20	16	22	58	20	6	11	2	35	22	18	24	6	7	7	7	12	0.4%	99%	
SMA	ATN	CP	Venezuela	LL	t2	b	b	b	b	b	b	b	ab	a	ab	ab	ab	ab	ab	a	ab	a	a	a	a	a	12			
SMA	ATN	CP	China PR	LL	t1					0								81	16	19	29	18	24	11	5	2	4	13	0.3%	99%
SMA	ATN	CP	China PR	LL	t2					-1								a	a	a	a	a	a	a	a	a	13			
SMA	ATN	CP	Panama	LL	t1				1	0							0	49	33	39				19	7		14	0.2%	99%	
SMA	ATN	CP	Panama	LL	t2				-1	-1						-1	a	a	a			a	a				14			

Table27. SMA-S region

				T1 Total	2461	2213	1793	1549	2555	2050	1957	3779	2398	3115	2938	2850	1881	2063	2486	3258	2905	2001	3274	2725	2641				
Species	Stock	Status	FlagName	GearGrp	DSet	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Rank	%	%cum
SMA	ATS	CP	EU.España	LL	t1	1482	1356	984	861	1090	1235	811	1158	703	584	664	654	628	922	1192	1535	1207	1083	1077	862	882	1	39.6%	40%
SMA	ATS	CP	EU.España	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	b	-1	b	b	b	b	b	-1	2		
SMA	ATS	CP	Namibia	LL	t1				1			459	375	509	1415	1243	1002	295	23	306	328	554	9	950	661	799	2	16.9%	57%
SMA	ATS	CP	Namibia	LL	t2				-1			a	-1	ab	ab	ab	ab	ab	ab	ab	a	ab	a	a	a		2		
SMA	ATS	CP	EU.Portugal	LL	t1	94	165	116	119	388	140	56	625	13	242	493	375	321	502	336	409	176	132	127	158	393	3	10.2%	67%
SMA	ATS	CP	EU.Portugal	LL	t2	-1	a	a	a	a	a	a	a	a	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	3		
SMA	ATS	CP	South Africa	LL	t1	36	29	168	66	103	68	12	115	101	111	86	224	137	146	152	218	108	250	476	613	339	4	6.7%	73%
SMA	ATS	CP	South Africa	LL	t2	-1	-1	-1	-1	ab	a	ab	ab	ab	ab	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	ab	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	6.7%	80%	
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	CP	Japan	LL	t1	514	244	267	151	264	56	133	118	398			72	115	108	103	132	291	114	182	109	77	6	6.5%	87%
SMA	ATS	CP	Japan	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1	-1			-1	-1	ab	ab	ab	a	a	a	a	a	6		
SMA	ATS	NCC	Chinese Taipei	LL	t1	183	163	146	141	127	63		626	121	128	138	211	124	117	144	204	158	157	161	154	95	7	6.4%	93%
SMA	ATS	NCC	Chinese Taipei	LL	t2	-1	-1	-1	-1	-1	-1		ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	ab	7		
SMA	ATS	CP	China PR	LL	t1	27	19	74	126	305	22	208	260				77	6	24	32	29	8	9	9	5	3	8	2.4%	95%
SMA	ATS	CP	China PR	LL	t2	-1	-1	-1	-1	-1	-1	-1	-1				a	a	a	a	a	a	a	a	a	a	8		
SMA	ATS	CP	Uruguay	LL	t1	26	20	23	21	35	40	38	188	249	146	68	36	41	106	23	76	36	1			9	2.2%	98%	
SMA	ATS	CP	Uruguay	LL	t2	-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	14	10	0.7%	98%
SMA	ATS	CP	Belize	LL	t2										-1		a	a		ab	ab	ab	-1	-1	a	a	10		
SMA	ATS	CP	Côte d'Ivoire	GN	t1	15	23	10	10	9	15	15	30	15	14	16	25					19	33	19	11	13	11	0.6%	99%
SMA	ATS	CP	Côte d'Ivoire	GN	t2	-1	-1	-1	-1	-1	-1	b	b		-1	-1	-1	a				a	a	ab	a	a	11		
SMA	ATS	CP	Brazil	UN	t1										61	0	27	5	78	7		7	2		3	12	0.4%	99%	
SMA	ATS	CP	Brazil	UN	t2										-1	-1	-1	-1	-1	-1		-1	-1		-1	12			