

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

**Introduction**

The activities and information included in this report refer to the period between 1 October 2018 and 18 October 2019 (the reporting period)<sup>1</sup>. All the fisheries statistics, biological statistics and compliance related information have been presented by the Secretariat to the SCRS Working Groups during inter-sessional and species groups meetings. After five years of continuous improvements, the Secretariat observed during 2019 a slight regression in data completion quality (more datasets only passed the SCRS filtering criteria after the corrections made by the Secretariat) and submissions not using the ICCAT most recent electronic forms (2019 version). The Secretariat will work closely with CPCs' scientific correspondents to ameliorate these problems in the future. Regarding the activities conducted by the Secretariat in the most recent years, in addition to the normal activities developed on statistics, publications, data funds management and others, the Secretariat is dedicating substantial additional work related to stock assessment activities, whether participating actively in the assessment or coordinating and managing external support to the SCRS work. Year 2019 was particularly difficult for the Secretariat, due to the increased number of SCRS and Commission meetings, 13 meetings were scheduled during the 1st semester of 2019 alone, which greatly limited the capacity of the Secretariat.

**1. Statistical and biological information reporting status**

The ICCAT Circular #0614/19 of 5 February 2019 established the provisions for reporting fishery statistics and biological data to ICCAT. The receipt date of each email (with the respective files attached) was adopted as the official submission date of the Contracting, Cooperating Party, Entity or Fishing Entity (CPC). The deadlines for the intersessional meetings (all requiring finalised data up to 2018) were: White Marlin Data Preparatory meeting, 12 March 2019; Yellowfin Data Preparatory meeting, 22 April 2019. The general deadline for reporting 2018 statistics (or any required revision to prior years) of all species and fisheries was 31 July 2019. A tolerance of 24 hours has been given to include all the time zones.

A total of 58 ICCAT CPCs (53 Contracting Parties (CP), plus 5 Cooperating non-Contracting Parties/Entities/Fishing Entities (NCC)) have reporting obligations to ICCAT. For statistical purposes, this corresponds to a total of 76 flag related CPCs (51 CP + 1 CP [16 EU Member States] + 1 CP [4 UK Overseas Territories Member States] + 5 NCC) who have reported information to ICCAT in recent years. The term "flag CPC" was adopted here to refer to those 76 flags.

The Secretariat continues to use (since 2015) the SCRS filtering criteria (Filters 1 and 2, described in Addendum 2 to Appendix 8 of 2013 SCRS report, updated by the SCRS in 2017) to validate and accept statistical data received under official formats. The filtering criteria are embedded since 2015 in the electronic forms.

For 2018 data Filter 1 was effectively applied and the results are presented in the SCRS Report Cards (**Tables 1, 2, 3, 4, and 5**, with a summary in **Figure 1**). The "orange" cells indicate the datasets that have not passed Filter 1. The "green" and "yellow" cells indicate the datasets that have passed Filter 1, and were reported before and after the deadline, respectively. This year, the Secretariat was able to correct a larger portion of the rejected datasets and inform the respective CPCs on the revisions needed. The updated datasets that arrived before July 31 are shown in "green", and the ones arriving afterwards are shown in "yellow". All the "orange" cells were provisionally integrated into the ICCAT database system (ICCAT-DB), and marked for revision. Filter 2 was also applied, and the results presented to the SCRS. Both filters were

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

used on every Task I and Task II dataset received (scenario 2, methodology described in Palma and Gallego, 2015<sup>2</sup>). The implementation of the SCRS filtering criteria to the remainder statistical and tagging forms will be progressively made in the next following years, because it requires that the Secretariat prepares in advance the corresponding databases, forms and develop the data integration tools.

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

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

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

### 1.1 Task I

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

#### 1.1.1 Fleet characteristics (T1FC)

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

The structure of the ST01 form adopted in 2015, allows to collect more complete and detailed information on effective fishing capacity, fleet structure, and optionally yearly based and gear independent nominal fishing effort (fishing days). However, the “optional” condition of reporting the nominal fishing effort (for 2018 data, about 60% of the flag CPCs reported fishing days) makes it unfeasible to obtain overall effort indicators and compromise possible estimations of total fishing capacity. Having the fishing days for each vessel in both Atlantic and Mediterranean regions would allow to effectively differentiate active from inactive vessels from all the authorised vessels to fish in the ICCAT Convention area. Hence, the Secretariat reiterates once again the request to make this field obligatory for improving the quality of T1FC data and its potential use in scientific studies.

The T1FC Report Card for 2018 is presented in **Table 1**. For the fifth consecutive year (2014 to 2018) T1FC has been requested on an individual vessel basis, in agreement with the ICCAT vessel record requirements of the Commission for the 11 vessel authorisation lists, which facilitates the cross-validation process. The Secretariat reminds that, this information is also used by the Commission (fulfilling the requirements under Rec. 15-08, which collects previous year vessel activity under some ICCAT fisheries (BFT-E, Tropical species, and, SWO-M). Preliminary summary tables of T1FC were published in Section 6 of the ICCAT Statistical Bulletin Vol. 45 (<https://www.iccat.int/sbull/SB45-2019/index.html>).

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

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

The vessel sizes (LOA) ranged from 5 to 195 meters in 2018 data, including small scale vessels reported in sub-form ST01B by seven flag CPCs. Near 16% of the vessels (about 1300 small scale vessels) reported in T1FC were not found in the ICCAT vessel record database (with about 52,700 vessels registered). Some cases could be related to different vessel characteristics being reported in the T1FC and in the ICCAT vessel record. Solving these inconsistencies will require additional work.

### 1.1.2 Nominal catch (T1NC)

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

The T1NC Report Card for 2018 is presented in **Table 2**, presenting only the CPCs that reported positive catches (excluding SCRS catch estimations) and the “zero” catches. A summary of the “zero” catches reported by flag CPCs and major species/stock in sub-form ST02B, is presented in **Table 15**. All the T1NC datasets received from 69 flag CPCs (91%), including the 11 flag CPCs with late-reports, were processed and presented to the SCRS. This includes some datasets corrected by the Secretariat (orange cells, marked for revision) associated to 7 flag CPCs. Only 7 flag CPCs (9%), have not yet reported this information. The total T1NC nominal catches (838,400 t) surpasses by about 11% the average of the last five years (752,200 t), noting that some important flag CPCs (St. Tomé e Príncipe, and Venezuela) have not yet reported T1NC statistics.

## 1.2 Task II

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

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

Or alternatively, any of the special agreed formats convened by the Secretariat and an ICCAT CPC. There is also a special form (ST06-T2FM) used to report bluefin tuna harvested on farming facilities. These compiled datasets can be considered a special type of Task II size information. However, this information is treated separately (given the growth at the farms) and used in the stock assessment after discounting growth at farms.

### 1.2.1 Catch and effort

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

All the T2CE information was reported by month and in its majority having the geographical resolution required by the SCRS (1x1 or better for surface fisheries, and, 5x5 or better for longline fisheries). The number of datasets reported with the exact geographical location (Latitude/Longitude) continues to increase. The number of species reported in T2CE datasets has also increased lately, in particular for the pelagic shark species. For the most recent years, the tendency of reporting more detailed and complete T2CE has continued. Since 2017, the T2CE datasets without effort information are not integrated into ICCAT-DB, and explicit requests for revisions are always made by the Secretariat to the corresponding flag CPCs.

The Secretariat continues with a T2CE data recovery task, aiming to complete the gaps identified, and to replace “poor” datasets whenever possible, using the new levels of resolution required by the SCRS, such as monthly based datasets, spatial resolution of 1x1 squares for surface gears up to a maximum of 5x5 squares for longline gears. This task should continue in the future, and the Secretariat recommends a more active collaboration of CPC scientists and Statistical Correspondents.

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

- Non-standard fishing effort types for certain gears (e.g. for longline “hooks” is the standard);
- Incomplete or partial species catch composition;
- Double counting of fishing effort, where same fishing effort is being reported several times in different forms for the same gear.

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

#### *1.2.2 Size information*

The T2SZ Report Card for 2018 is presented in **Table 4**. This Report Card also contains the datasets of T2CS (catch at size flag CPC estimates, for the six mandatory species) and size information T2SZ. It does not contain the bluefin tuna size samples arriving in form ST06-T2FM, or the bluefin tuna stereoscopic camera measurements. The reason for this is because, neither of these two datasets currently have all the required conditions (formats, databases, forms, import/validation code, etc.) to be merged within the Report Card automatic generation process. The inclusion of these two datasets into the T2SZ Report Card is made manually after inventorying and checking all the datasets reported.

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

Since 2017, the SCRS requires that all the T2SZ/T2CS datasets be reported by month, and, with the highest geographical stratification possible (1x1, 5x5, 5x10, and, 10x10 grids only), maintaining the ICCAT Sampling Areas for biological port sampling. With one exception (Japan T2CS of SWO) all the 2018 size information datasets arrived by month. The use of smaller geographical grids (1x1, 5x5, 5x10) has also increased slightly. The size/weight class bins reported for 2018 have followed the SCRS recommendation on size structures (1, 2, and 5 cm) and weight structures (1 kg). As opposed to the previous year, no error was observed in the units of the size/weight class bins (e.g. millimetres reported as centimetres) within 2018 size datasets.

Following Resolution 11-14 on the standardized presentation of scientific information, the SCRS developed the Standard Catalogues on data availability for a period of years, for all the major species and stocks. All the catalogues (27 tables) are presented in **Appendix 1**. These catalogues show the information for a 30 year period, grouped by flag/gear group combinations, in terms of Task I nominal catches (ranked by importance in descending order), and the availability of Task II data catch and effort, size sampling, and catch-at-size, by year. This instrument, which summarises very large amounts of information per species/stock, shows the level of data completeness/availability, and the data gaps, for the most important

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

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

### **1.3 Tagging**

#### *1.3.1 Electronic tags*

The laboratories conducting tagging campaigns with electronic tags (pop-up, archival, etc.) in the Convention area have informed the Secretariat of 481 releases and 83 recoveries made in late 2018 and during 2019.

#### *1.3.2 Conventional tags*

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

As in previous years, the Secretariat provided conventional tags for tagging experiments to the ICCAT scientific community (individual scientists or research institutions). From September 2018 to September 2019, the Secretariat distributed 3,850 conventional tags, primarily under the tagging projects of the Atlantic Wide Research Programme for Bluefin Tuna (ICCAT GBYP) and to various scientific institutions (**Table 8**).

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

#### *1.3.3 Tagging lottery*

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

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



The winning tags were as follows:

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

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

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

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

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

#### 1.4 By-catch

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

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

##### 1.4.1 Sharks

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

##### 1.4.2 Sea Turtles

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

##### 1.4.3 Seabirds

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

## 2. Data recovery and improvement

### 2.1 Revisions and updates

By default, historical revisions cover the years not covered by the SCRS “3 +1 revision rule”, where the last three years already reported officially to ICCAT plus the new year, are considered preliminary data and can be freely revised by CPCs. For 2018 data, all years before 2015 require a scientific document explaining the revision.

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

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

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

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

### 2.2 Additional by-catch information

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

## 3. ICCAT databases

The ICCAT database information system (ICCAT-DB) is a relational database management system (RDBMS servers: MS-SQL 2016 as the main server & MariaDB 10.3 for various purposes) with about 40 databases built to manage all the structured information received by the Secretariat. It has various frontend/backend tools including, client applications developed mostly with Java technologies, SQL scripts, and, some VBA tools. These tools are used to interact with the information (validation, transformation, processing, statistical analysis, data mining, standard outputs, etc.) and for data dissemination (web, ICCAT publications, meetings data provision, etc.). In 2019, the Secretariat completed the RDBMS server migration from MS-SQL 2008R2 to MSQ-SQL 2016.

In addition to the statistical and scientific information managed, ICCAT-DB system also manages a large portion of the information associated with the Commission's compliance requirements. Since 2009, the workload of compliance-related information, mainly in response to the increase of regulatory measures has steadily increased the database management and related tasks (control, verification, storage and backup).

The Secretariat started in May 2019, the development of the ICCAT Integrated Online Management System (IOMS), a system designed to manage online all the ICCAT data requirements in the future. It is a long-term project intended to replace entirely the current ICCAT data reporting system. Two new senior software developer experts, Jose Sanz (front-end developer) and Manuel Maestre (back-end developer) were hired for one year to work full-time on the IOMS implementation, with the supervision and partial contribution to the development made by the Secretariat. The ICCAT Online Reporting Technology Working Group (WG-TOR, whose mandate was established under Resolution 16-19) will govern all the IOMS implementation process.

In 2019 the Secretariat redesigned three databases to store information related to tropical support vessels, FAD deployments, and port sampling for tropical tunas, reported using forms ST07, ST08 and ST09, respectively. It has underway, the redesign is underway of four additional databases (Task I, Task II, Vessels, and, Tagging) aimed to be integrated into the IOMS project. The full ICCAT-DB documentation, composed of several parts (database reference manuals, user guides, “javadoc” for JAVA tools documentation, special articles, etc.) is undergoing a merging process with the documentation related to IOMS implementation (IOMS embedded event driven “help”, REST API and other web-services, articles for cloud deployments, constant development/integration [CD/CI] practices, etc.). Both will share the same databases, which will allow the elimination of redundant documentation. This merging work is being continuously merged and updated in parallel with the improvements made to the ICCAT-DB and the progress of the IOMS.

As in the most recent years, an overloaded 2019 obliged the Secretariat to delay or postpone several projects. The most important ones were: postponement of the replacement of the stand-alone MS-ACCESS databases with Task II data (T2CE: “t2ce.mdb”, T2SZ/CS: “t2sz.mdb”) by the SQLite; postponement of the “ICCAT forms” online Task I/II validation prototype; delay of the GIS project (aimed to geo-reference all the ICCAT datasets, and to create a “marine-rich” PostGIS server); delay of the conventional/electronic tagging work (database redesign, automatic data integration tools, sex recoveries by individuals, etc.).

### **3.1 Statistics**

#### **3.1.1 Task I and Task II**

All the electronic forms used to collect Task I and Task II data (ST01-T1FC, ST01-T1NC, ST03-T2CE, ST04-T2SZ, ST05-CAS and ST06-T2FM) were updated to version “2019a” to incorporate the required changes of the SCRS (codes, structures, filtering criteria, etc.). The respective databases were updated accordingly. The Secretariat completed the automatic data integration of the information received in forms ST07, ST08, ST09 and ST10 forms (now under a testing/validation period) and also improved the automation processes to handle Task I and Task II forms. The Secretariat has plans to also develop automatic data integration for the conventional tagging forms TG01 and TG02. Extension of this automatic integration framework for all the “ST” and “TG” forms will occur progressively (2020 and beyond) due to its complexity.

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

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

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



### *3.1.3 Catch at size/Catch at age*

The catch-at-size (CAS) database is complete and functional, with an active connection between the size data and the substitution tables used for the CAS estimation. This year, the Secretariat has not updated the overall CAS estimations for YFT and Mediterranean SWO, because they were not considered a priority, and were left aside due to Secretariat time limitations. If required, they can be updated but only after the SCRS meeting.

### *3.1.4 FAD forms*

In 2014, a new form (ST08-FadsDep) was created to capture information on the number of FADs deployed according to Rec. 13-01. This form has been revised several times and in 2018 the SCRS approved a new version addressing the main concerns raised by CPCs. In addition to the information provided on the ST08 forms, CPCs are also requested to submit FAD Management Plans according to paragraph 18 of [Rec. 16-01](#). Few countries fishing for tropical tunas submitted information about their FAD fisheries and their FAD Management Plans. The information received by The Secretariat on ST08 forms on FAD deployments and on FAD Management Plans is summarized in **Appendix 2**.

## *3.2 By-catch/observers forms*

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

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

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

## *3.3 Other stereoscopic cameras size sampling*

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

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

### 3.4 Compliance

In recent years, several compliance-related measures adopted by the Commission include several reporting requirements of various kinds on Contracting Parties. The Secretariat maintains databases for these sets of information separately from the traditional fishery statistics (Tasks I and II). Since 2011, following the Commission's adoption of the Confidentiality Data Policy, the Secretariat has provided compliance-related information to the SCRS to fill gaps, complement or cross-check fishery statistics. This section of the report includes the available data that has been summarized for the SCRS in 2019.

#### 3.4.1 ICCAT Vessel record

The Secretariat maintains the ICCAT Record of Vessels database up-to-date (Recs. 13-13, 14-10, 16-01, 16-05, 16-06, 16-07, 16-15, 17-02, 17-03 and 18-02), including a total of 11 Vessels Registry Lists requirements. Since 2015, the ICCAT vessel record database is synchronised daily with the t-RFMOs Consolidated List of Authorized Vessels (CLAV) and the electronic Bluefin Catch Documentation Program (e-BCD). In coordination with CPCs, the Secretariat also carries out a continuous revision and update of the ICCAT vessel record database. The Secretariat is right now working with the EU on cross-validating both databases (ICCAT vessel record versus EU vessel record) aiming to harmonize the European vessel information in both places. It is expected to be finalised in one month.

#### 3.4.2 Bluefin tuna fisheries

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

- List of vessels authorized to catch eastern bluefin (Para. 49 of Rec. 18-02)
- List of other bluefin tuna vessels authorized to operate in the eastern bluefin tuna fishery (Para. 49 of Rec. 18-02)
- Detailed information on bluefin tuna catches in the eastern Atlantic and Mediterranean in the preceding fishing year (Para. 57 of Rec. 18-02)
- Weekly eastern bluefin tuna catch reports by vessel and traps (Para. 74 of Rec. 18-02)
- Monthly western bluefin tuna catch reports (Rec. 17-06)
- VMS messages (Para. 5 of Rec. 07-08 and Para. 105 of Rec. 18-02)
- List of bluefin tuna traps (Rec. 18-02)
- Bluefin tuna farming facilities (Para. 9b) of Rec. 16-07)
- Bluefin tuna farming reports (Para. 5 of Rec. 06-07)
- The use of stereoscopic cameras systems in the context of caging operations (Para. 99 and Annex 9, Rec. 18-02)
- List of ports in which vessels are authorized to land and/or tranship eastern bluefin tuna (Para. 69 and 70 of Rec. 18-02)
- Data and information collected under each CPCs observer programme (Para. 83 of Rec. 18-02)

#### 3.4.3 VMS messages

The VMS information received under Rec. 18-02 consists of a vessel ID (name, flag, radio call sign) and a position every four hours. This information can, in theory, be used to infer fishing effort distribution and intensity. **Figure 2** shows the number of messages received in each 1° by 1° degree rectangle from 8 September 2018 to 16 September 2019 (reporting period). The plot represents only the Mediterranean Sea VMS messages that originated at sea.

#### 3.4.4 Bluefin Catch Document (BCD) and electronic BCD

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

#### 3.4.5 Bluefin catch reports

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

#### 3.4.6 Caging declarations

Caging declarations are submitted by farming Contracting Parties in compliance with Recommendations 06-07 and 14-04. The caged amounts reported by different fleets and introduced into cages are shown in **Table 21**. Data shown represents data submitted up to 18 September 2018. Recommendation 11-20, which entered into force in June 2012, also requires CPCs to submit the amounts remaining in cages from the previous year, and Recommendation 06-07 requires a summary report of amounts farmed, as well as quantities marketed, mortalities and estimated growth.

#### 3.4.7 Statistical Document Programme

Recommendations 01-21 and 01-22 track international trade of certain types of fish products of bigeye and swordfish, under the ICCAT statistical document programme. **Table 22** summarises the number of biannual reports (SD: statistical documents; RC: re-export certificates) received from ICCAT CPCs during the reporting period. **Table 23** and **Table 24** compare (swordfish and bigeye, respectively) for the period 2011 to 2018 (2019 is preliminary) current Task I nominal catch against trade statistics (SDs and RCs, in product weight) received during the reporting period.

#### 3.4.8 Transshipments

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

#### 3.4.9 Bluefin Tuna Regional Observer Programme (ROP-BFT)

The data sets from this programme have been made available by the implementing consortium to the Bluefin Tuna Species Group.

#### 3.4.10 Bluefin Tuna Farming Operations

In 2017 the Secretariat presented an updated review of the size at harvest of bluefin from farming operations (Ortiz 2017<sup>3</sup>). This information was used in the 2017 Bluefin Stock Assessment. A new database integrating farming size at caging and harvesting operations and auxiliary information is being developed with the collaboration of the GBYP to address research on bluefin tuna growth during caging.

### 3.5 By-catch data

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

#### 3.5.1 Observer data

In 2018, to reflect the requirements stipulated in Rec. 16-14, the CP45 form was replaced by the ST11 form. In 2019 ST11 forms were submitted by 35 CPCs.

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

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

### **3.6 FAD management plans**

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

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

## **4. Work in support of the SCRS Intersessional Meetings**

The main task of the Secretariat is providing full support for all intersessional and annual meetings of the SCRS including provision of the fisheries statistic data (Task I, II, tagging) and auxiliary data as requested by the Working Groups. The Secretariat also provides scientific support in collaboration with scientists and modelers for all the assessment methods, normally following an intersessional work plan approved by the Sub-Committees, Species Groups and or Working Groups. During the meetings the Secretariat also collaborates with the compilation and integration of results, creating Status and Kobe plots, projections, auxiliary analysis and the backup of all analyses and main results in support of the management advice provided by the SCRS. Finally, in collaboration with Rapporteurs, the Secretariat provides support for research work plans, Call for tenders and other activities aiming at the best use of the available funds for science and data collection.

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

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

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

## **5. Infrastructure and technology**

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

### ***5.1 Configuration of IT resources for new recruits***

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

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

### ***5.2 Renewal of the UPS of the servers rack and connectivity***

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

### ***5.3 Upgrade of the backup solution of the virtual machines***

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

### ***5.4 Upgrade of Office 365***

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

### ***5.5 Upgrade of ICCAT website server***

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

### ***5.6 Sourcing of a new Wi-Fi system***

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



#### ***5.7 Sourcing of a switching solution***

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

#### ***5.8 SDL Trados Course and installation of Office 365***

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

#### ***5.9 Monitors for the Department of Translation and Publications***

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

#### ***5.10 New generation antivirus***

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

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

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

#### ***5.12 Improvements for the SCRS meeting***

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

#### ***5.13 Submission of a draft acceptable use policy***

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

#### ***5.12 Compliance with the protection of personal data law***

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

#### ***5.13 Cloud computing***

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

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

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

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

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

## 6. Publications

### 6.1 ICCAT series of periodic publications

For the current year, the Secretariat has continued the series of periodic publications developed throughout the history of ICCAT. **Table 26** shows the volumes of these series that were published in 2018 and 2019. Due to the request from the Commission to reduce costs, all the ICCAT periodic publications are now only published in electronic format and are all available for download in the ICCAT publications webpage.

Volume 4 of the Biennial Report was published for the first time in 2011. This Volume contains the reports generated by the Secretariat for the SCRS and the Commission, such as the Secretariat Report on Statistics and Coordination of Research, the Financial and Administrative Reports, and the ICCAT Secretariat Reports to the Conservation and Management Measures Compliance Committee (COC) and the Permanent Working Group for the Improvement of ICCAT Statistics and Conservation Measures (PWG).

Volume 45 of the Statistical Bulletin was published in electronic version. The current edition provides the catches and other statistics series for the period 1950 to 2017.

Given the Secretariat's workload and the request for reducing time of publications of the ICCAT Collective Volume of Scientific Papers, and considering that a significant number of authors do not follow the publication guidelines provided, the SCRS agreed in 2014 that those papers not meeting the minimum standards would not be published. As a result of applying this practice since 2017, the list of unpublished papers in the volume includes those withdrawn by the authors and those which failed to meet the minimum established publication standards. The Secretariat also adopted the necessary measures in 2017 to ensure that documents be published in electronic format soon after Sub-committees and Species Groups and Working Group meetings. As a result of improvements imposed in the publication process, in late 2018 and throughout 2019 the Secretariat published volume 75 (issues 6 to 8) and volume 76 (already published 6 issues) of the ICCAT Collective Volume of Scientific Papers.

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

### 6.2 ICCAT- Aquatic Living Resources (ALR) Agreement

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

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

### **6.3 ICCAT Manual**

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

### **6.4 ICCAT web site**

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

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

## **7. International activities**

### **7.1 Coordinating Working Group on Fishery Statistics (CWP)**

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

### **7.2 Fisheries and Resources Monitoring System (FIRMS)**

ICCAT is partner of the FAO/FIRMS that provides access to information on the global monitoring and management of fishery marine resources. As such the Secretariat provides regular updates for the stock status of ICCAT species (<http://firms.fao.org/firms/en>) assessed by the SCRS. In 2019, the Secretariat updated the species identification sheets for blue marlin, bigeye tuna, north and south Atlantic swordfish, Mediterranean albacore, and north and south Atlantic shortfin mako populations, which were assessed by the SCRS in 2017 and 2018.

### **7.3 ASFA**

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

### **7.4 iMarine**

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

### **7.5 EU Liaison and DCF (data collection framework)**

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

## **8. ICCAT Scientific programmes**

The activities of the Atlantic-Wide Bluefin Research Programme (ICCAT GBYP), Atlantic Ocean Tropical tuna Tagging Programme (ICCAT AOTTP), Year Research Programme for Small Tunas (ICCAT SMTYP), the Shark Research and Data Collection Programme (SRDCP), and the Enhanced Research Programme for Billfish (ICCAT ERPB), are separately presented in reports to the SCRS (see SCI-39, SCI-40, SCI-41, SCI-42 and SCI-43, respectively). The Secretariat's participation in these programmes mainly consists in administrative and scientific support. In the administrative area the Secretariat aids with the coordination of research of proposals, Call for tenders, funds administration and oversees auditing and accounting responsibilities of these programmes. Regarding scientific support the Secretariat has a major role between the SCRS and the programme coordinator for the design of research proposals, Call for tenders, evaluation of proposals, coordination of research and database management, as well as IT support to each of the programmes. As in the past, during 2019 the Secretariat actively participated in several of the research programmes components.

In addition to the above mentioned programmes, the Secretariat has been providing administrative and scientific support to other research activities (see SCRS report, item 10.6), namely regarding the ongoing work of the Sub-Committee on Ecosystems, swordfish and albacore Species Groups, as well as, the Stock Assessment methods Working Group. Such support involved coordination of research of proposals, Call for tenders, administration of allocated funds and accounting responsibilities of the different contracts issued.

## **9. Other activities**

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

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

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

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

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

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

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

### ***9.4 Collaboration with the International Seafood Sustainability Foundation (ISSF)***

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

### ***9.5 Mediterranean Advisory Council (MEDAC)***

The Mediterranean Advisory Council (MEDAC) role includes the preparation of opinions on fisheries management and socio-economic aspects in support of the fisheries sector in the Mediterranean, to be submitted to the European Member States and institutions in order to facilitate the achievement of the objectives of the European Union Common Fisheries Policy. The ICCAT Secretariat receives annually an invitation to attend one of their meetings and to provide a presentation on the recent findings of the SCRS as regards to the status of the stocks of eastern Atlantic and Mediterranean bluefin tuna, as well as for the Mediterranean albacore and swordfish stocks.



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

Considering the fruitful experience ICCAT and ICES have had in recent years regarding scientific collaboration, in 2018 both organisations expressed their willingness to strengthen this cooperation and explore new initiatives and discussions which have commenced between the Secretariats. It has been agreed therefore that it is appropriate and desirable to improve collaboration between ICCAT SCRS-ICES, particularly in the areas of by-catch, sharks and stock assessment issues, through our Sub-committee on Ecosystems and By-catch, the Shark Species Group, as well as the WGSAM. Specifically, it would be convenient to keep the participation of ICES scientific experts in ICCAT Shark Stock Assessments, as well as in both (stock assessment) Methods Working Groups.

## **10. ICCAT funds for data improvement and capacity building**

To improve data collection and strengthen the capacity of the scientists from developing Parties, the Japanese Government created an initial data improvement project which was continued, in a second phase, by the ICCAT/Japan Data and Management Improvement Project (JDMIP) and since December 2014, in a third phase, with the ICCAT/Japan Capacity-Building Assistance Improvement Project (JCAP) (the report is contained in document SCI-09).

Besides this project, there is also a Data Fund, which was established through the *Resolution by ICCAT on Improvements in Data Collection and Quality Assurance* (Res. 03-21). The Data Fund is open to voluntary contributions from the Contracting Parties. To date, only the United States has contributed to this fund. The European Union and the United States created their own capacity building funds for data collection and analysis of data and stock assessment methods, as well as to facilitate participation in SCRS meetings.

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

In 2013, the Commission adopted the *Recommendation by ICCAT on the Establishment of a Scientific Capacity Building Fund for Developing States which are ICCAT Contracting Parties* (Rec. 13-19) which establishes a Special Capacity Building Fund (SCBF) to support scientists from ICCAT Contracting Parties, which are developing States regarding their need to acquire knowledge and develop capacities in ICCAT related issues. In 2017 the Commission decided to keep this fund but allocated no budget to it for 2018 and 2019, while it was also decided to move the respective balance in 31 December 2017 to the Science Envelope budgetary line.

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

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

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

On the basis of this protocol, in 2019 the funds have been used as follows:

- Participation at SCRS meetings: 58 scientists from Algeria, Brazil, Cabo Verde, Côte d'Ivoire, Egypt, Gabon, Ghana, Liberia, Mauritania, Mexico, Namibia, Nigeria, São Tomé and Príncipe, Senegal, Sierra Leone, Tunisia, Uruguay and Venezuela, were funded to attend the SCRS scientific meetings.

- Improvement of statistics: Training course to build the capacity of data collection in the industrial and artisanal fisheries in Gabon, Namibia (to be held in November 2019) and Angola (to be scheduled) and rebuilding of the statistical and fisheries data collection system in Liberia (supported by JCAP); Capacity building courses aiming to enhance participation of managers in MSE processes - training workshops in MSE development to be conducted in the margins of the 2019 Annual meeting of the Commission.
- Scientific capacity building courses: two scientists from developing CPCs (Tunisia and Mauritania) received training in SS3 and BSP Stock Assessment model, at US institutions (NOAA and University of Miami).
- SCRS activities funded the following:
  - Short-term contract for ICCAT collection of biological samples for the study of growth of billfish in the eastern Atlantic;
  - Short-term contract Atlantic blue marlin Gulf of Mexico reproductive biology study (to be signed);
  - Short-term contract for ICCAT SMTYP for the biological samples collection for growth, maturity and genetics studies;
  - Short-term contract for ICCAT swordfish biological samples collection for growth, reproduction and genetics studies;
  - Short-term contract for modelling approaches: support to ICCAT North Atlantic swordfish MSE process;
  - Short-term contract for Mediterranean swordfish data recovery;
  - Swordfish workshop on sampling and processing protocols aiming at growth and reproduction studies;
  - Short-term contract for the addition of swordfish distribution model to the longline simulator study;
  - Short-term contract for improvement of the North Atlantic albacore management strategy evaluation (MSE) framework;
  - Collaborative analysis using longline operational data to standardized Atlantic yellowfin tuna CPUE indices;
  - Electronic PSAT tagging of Atlantic swordfish, northern albacore and Atlantic pelagic sharks;
  - Study on genetic stock structure of shortfin mako shark based on mitochondrial analysis;
  - Study on the reproduction of northeastern Atlantic porbeagle;
  - Experts workshop to evaluate the impact of fishing on seabirds;
  - Attendance of intersessional SCRS meetings (e.g. seabird expert).

## 11. Major statistical and IT Tasks planned for 2020

The Secretariat has been working since 2017 on the Integrated Online Managements System (ICCAT IOMS). This project started with two prototypes, the FORS (Fisheries online reporting system, financed by GEF) and the “ICCAT forms” (recommended by the SCRS and made by the Secretariat) aimed to validate online Task I and Task II forms. In 2018, the Sub-Committee on Statistics recommended (after evaluating the two web-applications presented) that both projects be merged. The SCRS and the Commission’s Online Reporting Technical Working Group has supported and recommended to continue with this project, including its extension to all the compliance and statistical data submission requirements of ICCAT. The Commission also recognized that implementing the project ICCAT IOMS system does require a commitment for financial and expertise support for moving forward and completing it in a near future to fulfill the recommendations from the Online Reporting Technology Working Group. In 2019 the Commission approved Phase 1 of the ICCAT IOMS project. The Secretariat started its development with the hire of two senior software developers in June 2019. The IOMS Phase 1 workplan and specifications are described in document COC\_317\_IOMS\_Phase1\_Proposal. The new IOMS development phases will be specified by the ICCAT WG-TOR.

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

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

## **12. Secretariat staff and organization**

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

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

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

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

|        |                                |                                | Deadline (+1 day tolerance) / Fishery |      |      |      |      |           |         |        |        |      |      |      |      |
|--------|--------------------------------|--------------------------------|---------------------------------------|------|------|------|------|-----------|---------|--------|--------|------|------|------|------|
|        |                                |                                | 01-08-19                              |      |      |      |      |           |         |        |        |      |      |      |      |
| Status | Party                          | Flag                           | ALBM                                  | ALBN | ALBS | BFTE | BFTW | MULTIFISH | NONE-BC | SHARKS | SMTuna | SWOM | SWON | SWOS | TROP |
| CP     | ALBANIA                        | Albania                        |                                       |      |      | 0    |      |           |         |        |        |      |      |      |      |
|        | ALGÉRIE                        | Algerie                        |                                       |      |      | 1    |      |           |         |        |        | 1    |      |      |      |
|        | ANGOLA                         | Angola                         |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | BARBADOS                       | Barbados                       |                                       |      |      |      |      | -0.2      |         |        |        |      |      |      |      |
|        | BELIZE                         | Belize                         |                                       | 1    | 1    |      |      |           |         | 1      |        |      | 1    | 1    |      |
|        | BRAZIL                         | Brazil                         |                                       |      |      |      |      |           |         | 1      |        |      |      | 1    |      |
|        | CANADA                         | Canada                         |                                       | -0.2 |      |      | -0.2 |           | -0.2    |        |        |      | -0.2 |      | -0.  |
|        | CAP-VERT                       | Cape Verde                     |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | CHINA PR.                      | China PR                       |                                       | 1    | 1    |      |      |           |         |        |        |      | 1    | 1    | 1    |
|        | CÔTE D'IVOIRE                  | Côte d'Ivoire                  |                                       | 1    |      |      |      |           |         |        |        |      |      |      |      |
|        | CURAÇAO                        | Curaçao                        |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | EGYPT                          | Egypt                          |                                       |      |      | 1    |      |           |         |        |        |      |      |      |      |
|        | EL SALVADOR                    | El Salvador                    |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | EUROPEAN UNION                 | EU.Bulgaria                    |                                       |      |      |      |      |           |         | 1      | 1      |      |      |      |      |
|        |                                | EU.Croatia                     |                                       |      |      | 1    |      |           |         |        |        |      |      |      |      |
|        |                                | EU.Cyprus                      |                                       | 1    |      | 1    |      |           |         |        |        |      | 1    |      |      |
|        |                                | EU.Denmark                     |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | EU.España                      |                                       | 1    | 1    | 1    | 1    |           |         |        |        |      | 1    | 1    | 1    |
|        |                                | EU.France                      |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | EU.Germany                     |                                       |      |      |      |      |           |         | 0      |        |      |      |      |      |
|        |                                | EU.Greece                      |                                       | 1    |      |      | 1    |           |         |        |        |      | 1    |      |      |
|        |                                | EU.Ireland                     |                                       |      | 1    |      | 1    |           |         |        |        |      |      |      |      |
|        |                                | EU.Italy                       |                                       |      |      |      | 1    |           |         |        |        |      |      |      |      |
|        |                                | EU.Latvia                      |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | EU.Lithuania                   |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | EU.Malta                       |                                       | 1    |      |      | 1    |           |         |        |        |      | 1    |      |      |
|        |                                | EU.Netherlands                 |                                       |      |      |      |      |           |         | 1      |        |      |      |      |      |
|        |                                | EU.Portugal                    |                                       |      | 1    |      |      |           |         | 1      | 1      |      |      | 1    | 1    |
|        |                                | EU.United Kingdom              |                                       |      |      |      |      |           |         | 1      | 1      | 1    |      |      |      |
|        |                                | FRANCE (St-Pierre et Miquelon) | FR.St Pierre et Miquelon              |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GABON                          | Gabon                                 |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GAMBIA                         | Gambia                                |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GHANA                          | Ghana                                 |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GRENADA                        | Grenada                               |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GUATEMALA                      | Guatemala                             |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GUINEA BISSAU                  | Guinea Bissau                         |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GUINEA ECUATORIAL              | Guinea Ecuatorial                     |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | GUINÉE REP.                    | Guinée Rep.                           |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | HONDURAS                       | Honduras                              |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | ICELAND                        | Iceland                               |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | JAPAN                          | Japan                                 |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | KOREA REP.                     | Korea Rep.                            |      |      |      | 1    |           |         | 1      |        |      |      |      |      |
|        |                                | LIBERIA                        | Liberia                               |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | LIBYA                          | Libya                                 |      |      |      | 1    |           |         |        |        |      |      |      |      |
|        |                                | MAROC                          | Maroc                                 |      |      |      | 1    |           |         |        | 1      |      | 1    | 1    |      |
|        |                                | MAURITANIA                     | Mauritania                            |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | MEXICO                         | Mexico                                |      |      |      |      |           |         |        |        |      |      | 1    |      |
|        |                                | NAMIBIA                        | Namibia                               |      |      | 1    |      |           |         |        | 1      |      |      |      | 1    |
|        |                                | NICARAGUA                      | Nicaragua                             |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | NIGERIA                        | Nigeria                               |      |      |      |      |           |         |        |        |      |      |      |      |
|        | NORWAY                         | Norway                         |                                       |      |      | 1    |      |           |         |        |        |      |      |      |      |
|        | PANAMA                         | Panama                         |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | PHILIPPINES                    | Philippines                    |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | RUSSIA                         | Russian Federation             |                                       |      |      |      |      |           |         |        | 1      |      |      |      |      |
|        | S. TOMÉ E PRÍNCIPE             | S. Tomé e Príncipe             |                                       |      |      |      |      |           |         |        |        | 1    |      |      |      |
|        | SENEGAL                        | Senegal                        |                                       |      |      |      |      |           |         |        | 1      |      |      |      |      |
|        | SIERRA LEONE                   | Sierra Leone                   |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | SOUTH AFRICA                   | South Africa                   |                                       |      | 1    |      |      |           |         |        |        |      |      | 1    |      |
|        | St VINCENT & GRENADINES        | St. Vincent and Grenadines     |                                       | 1    | 1    |      |      |           |         |        |        |      | 1    |      |      |
|        | SYRIA                          | Syria                          |                                       |      |      | 1    |      |           |         |        |        |      |      |      |      |
|        | TRINIDAD & TOBAGO              | Trinidad and Tobago            |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | TUNISIE                        | Tunisie                        |                                       |      |      | 1    |      | 0         |         |        |        | 0    |      |      |      |
|        | TURKEY                         | Turkey                         |                                       |      |      | 1    |      |           |         |        |        | 1    |      |      |      |
|        | UNITED KINGDOM (O.Territories) | UK.Bermuda                     |                                       | -0.2 |      |      |      |           |         |        | -0.2   |      |      | -0.  |      |
|        |                                | UK.British Virgin Islands      |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | UK.Sta Helena                  |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        |                                | UK.Turks and Caicos            |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | UNITED STATES                  | U.S.A.                         |                                       |      |      |      |      |           |         |        |        |      | 1    |      |      |
|        | URUGUAY                        | Uruguay                        |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | VANUATU                        | Vanuatu                        |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | VENEZUELA                      | Venezuela                      |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
| NCC    | Bolivia                        | Bolivia                        |                                       |      |      |      |      |           |         |        |        |      |      |      |      |
|        | Chinese Taipei                 | Chinese Taipei                 |                                       | 1    | 1    |      |      |           |         |        |        |      |      |      |      |
|        | Costa Rica                     | Costa Rica                     |                                       |      |      |      |      | -0.2      | -0.2    | -0.2   | -0.2   |      |      |      | -0.  |
|        | Guyana                         | Guyana                         |                                       |      |      |      |      |           | -0.2    |        |        |      |      |      |      |
|        | Suriname                       | Suriname                       |                                       |      |      |      |      |           |         |        |        |      |      |      |      |

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

Table 2. Task I nominal catch (form ST02-T1NC) submission status for 2018 data ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not submitted or zero catch).

Tableau 2. Situation de la soumission des données de la prise nominale de la Tâche I (formulaire ST02-T1NC) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou prises zéro).

Tabla 2. Estado de la presentación de los datos de captura nominal de Tarea I (formulario ST02-T1NC) para los datos de 2018 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o captura cero).

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

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



Table 3. Task II catch and effort (form ST03-T2CE) submission status for 2018 data ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenarío 2); "blank": not submitted or zero catch).  
 Tableau 3. Situation de la soumission des données de la prise et effort de la Tâche II (formulaire-ST03-T2CE) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou prises zéro).  
 Tabla 3. Estado de la presentación de los datos de captura y esfuerzo de la Tarea II (Formulario ST03-T2CE) para los datos de 2018 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o captura cero).

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

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

Table 4. Task II size information (forms: ST04-T2SZ: observed samples; ST05-CAS: catch-at-size) submission status for 2018 data ("green": before deadline; "yellow": after deadline; "orange": has not passed Filter 1 (scenario 2); "blank": not submitted or no sampling).

Tableau 4. Situation de la soumission des données de taille de la Tâche II (formulaires: ST04-T2SZ -échantillons observés; ST05-CAS: prise par taille) pour les données de 2018 (vert: déclarées dans le respect des délais impartis; jaune: déclarées après la date limite; "orange": n'a pas passé le Filtre 1 (scénario 2); cellule vide: non déclarées ou pas d'échantillonnage).

Tabla 4. Estado de la presentación de los datos de talla de la Tarea II (formularios: ST04-T2SZ - muestras observadas; ST05-CAS: captura por talla) para los datos de 2018 ("verde": dentro del plazo; "amarillo": fuera de plazo; "naranja": no pasó el Filtro 1 (escenario 2); "en blanco": no se han enviado datos o sin muestreo).

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

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

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

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

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

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

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

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

Table 6. SCRS scorecard on Task I/II data availability for all the major ICCAT species by stock/region (methodology in SCRS/2019/045).

Tableau 6. Fiche de score du SCRS sur la disponibilité des données des tâches I et II pour toutes les principales espèces relevant de l'ICCAT, par stock/région (méthodologie détaillée dans SCRS/2019/045).

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

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

Table 7. Summary of the number of tags applied and recovered by flag CPC between 2018-09-08 and 2019-09-16 (flag CPCs that have carried out tagging are indicated in the columns and flag CPCs that have recovered are indicated in the rows). The figures shown include data received directly by ICCAT, as well as those provided by the GBYP and AOTTP projects.

Tableau 7. Résumé du nombre de marques apposées et récupérées par CPC de pavillon entre 2018-09-08 et le 2019-09-16 (les CPC de pavillon qui ont marqué sont indiquées dans les colonnes et les CPC de pavillon qui ont récupéré sont indiquées dans les files). Les montants indiqués incluent les données reçues directement par l'ICCAT ainsi que les données fournies par les projets GBYP et AOTTP.

Tabla 7. Resumen de número marcas puestas y recuperadas por CPC de pabellón entre 2018-09-08 y el 2019-09-16 (CPC de pabellón que han marcado indicadas en columnas y CPC de pabellón que han recuperado indicados en filas). Las cifras mostradas incluyen los datos recibidos directamente por ICCAT, así como los aportados por los proyectos GBYP y AOTTP.

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

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

| TagAlfa | From  | To    | Quantity | DateSent | Institution                                                     | Principal Investigator | Country     |
|---------|-------|-------|----------|----------|-----------------------------------------------------------------|------------------------|-------------|
| BYP     | 29726 | 29775 | 50       | 15-01-19 | The University of Maine/Gulf of Maine Research Institute        | Walter Golet           | USA         |
| BYP     | 29776 | 29875 | 100      | 26-02-19 | National Institute of Marines Sciences and Technologies (INSTM) | Rafik Zarrad           | TUNISIA     |
| BYP     | 63601 | 63650 | 50       | 26-02-19 | National Institute of Marines Sciences and Technologies (INSTM) | Rafik Zarrad           | TUNISIA     |
| BYP     | 78801 | 78850 | 50       | 26-02-19 | National Institute of Marines Sciences and Technologies (INSTM) | Rafik Zarrad           | TUNISIA     |
| SEC     | 50000 | 50049 | 50       | 29-03-19 | Zoológico de Barcelona                                          | Pablo Cermeño          | EU.ESPAÑA   |
| BYP     | 29876 | 30000 | 125      | 24-04-19 | Zoológico de Barcelona                                          | Pablo Cermeño          | EU.ESPAÑA   |
| BYP     | 30001 | 30025 | 25       | 24-04-19 | Zoológico de Barcelona                                          | Pablo Cermeño          | EU.ESPAÑA   |
| BYP     | 30026 | 30625 | 600      | 23-05-19 | Marine Institute                                                | Niall Ó Maoiléidigh    | EU.IRELAND  |
| BYP     | 63651 | 63950 | 300      | 23-05-19 | Marine Institute                                                | Niall Ó Maoiléidigh    | EU.IRELAND  |
| BYP     | 78851 | 79150 | 300      | 23-05-19 | Marine Institute                                                | Niall Ó Maoiléidigh    | EU.IRELAND  |
| SEC     | 80000 | 80049 | 50       | 23-05-19 | IFREMER                                                         | Francois Poisson       | EU.FRANCE   |
| BYP     | 30626 | 30925 | 300      | 23-05-19 | Marine Institute                                                | Niall Ó Maoiléidigh    | EU.IRELAND  |
| BYP     | 30926 | 31125 | 200      | 27-05-19 | Portuguese Ocean and Atmosphere Institute (IPMA)                | Pedro Lino             | EU.PORTUGAL |
| BYP     | 31126 | 31525 | 400      | 26-06-19 | DIRECTORATE OF FISHERIES                                        | Maja K. Rodriguez Brix | NORWAY      |
| BYP     | 79151 | 79950 | 800      | 26-06-19 | Government of Canada (Fisheries and Oceans)                     | Alex Dalton            | CANADA      |
| BYP     | 31526 | 31675 | 150      | 10-07-19 | Università di Genova                                            | Fulvio Garibaldi       | EU.ITALY    |
| BYP     | 31676 | 31875 | 200      | 16-07-19 | The University of Maine/Gulf of Maine Research Institute        | Walter Golet           | USA         |
| BYP     | 79951 | 80050 | 100      | 02-08-19 | Technical University of Denmark                                 | Kim Aarestrup          | EU.DENMARK  |
| SEC     | 11075 | 11574 | 500      | 25-09-19 | Dirección Nacional de Recursos Acuáticos - DINARA               | Rodrigo Forselledo     | URUGUAY     |
| SEC     | 50050 | 50549 | 500      | 25-09-19 | Dirección Nacional de Recursos Acuáticos - DINARA               | Rodrigo Forselledo     | URUGUAY     |
| BYP     | 31876 | 31975 | 100      | 17-10-19 | APR - Alleanza Pescatori Ricreativi                             | Laura Pisano           | EU.ITALY    |



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

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

Table 10. Information on dead discards (DD), live discards (DL) in numbers reported in T1NC by CPCs for 2018.  
Tableau 10. Informations fournies sur les débarquements (T1NC) d'espèces accessoires, par CPC, pour 2019.  
Tabla 10. Información facilitada sobre desembarques (T1NC) de especies de captura fortuita por CPC para 2019.

| Sum of Qty_t       |                        |                            | CatchTypeCode        |     |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               |       |     |
|--------------------|------------------------|----------------------------|----------------------|-----|---------------|---------------|---------------|-----------------|----|-----------------|----|-----------------|-------------|------------------|----|--------------|----|-----------------|--------------|------------------|--------------|-----|---------------|-------|-----|
| SpeciesGrp         | Species                | SciName                    | Flag<br>Canada<br>DD | DL  | Chinese<br>DD | Curaçai<br>DD | EU.Croa<br>DD | EU.España<br>DD | DL | EU.France<br>DD | DL | Guatemala<br>DD | Japan<br>DD | Korea Rep.<br>DD | DL | Mexico<br>DD | DL | NEI (BIL)<br>DD | Panama<br>DD | Russian Fe<br>DD | U.S.A.<br>DD | DL  | UK.Berm<br>DL | TOTAL |     |
| 1-Tuna (major sp.) | ALB                    | Thunnus alalunga           | 0                    | 0   |               |               |               |                 |    | 0               |    |                 |             |                  |    |              |    |                 |              |                  |              |     | 0             | 0     |     |
|                    | BET                    | Thunnus obesus             | 3                    | 0   |               |               |               |                 |    | 2               |    |                 |             | 26               |    |              |    | 0               |              |                  | 15           |     |               | 29    |     |
|                    | BFT                    | Thunnus thynnus            | 3                    | 19  |               |               | 6             |                 |    |                 |    |                 | 9           |                  |    |              |    | 0               |              |                  |              |     |               | 51    |     |
|                    | BUM                    | Makaira nigricans          | 0                    | 1   | 16            | 4             |               |                 |    | 12              | 1  | 2               | 6           |                  |    |              | 0  | 1               |              | 2                | 22           | 62  | 55            | 184   |     |
|                    | SAI                    | Istiophorus albicans       |                      |     | 3             |               |               |                 |    | 1               |    |                 |             |                  |    |              | 0  | 0               |              |                  | 6            | 8   |               | 18    |     |
|                    | SKJ                    | Katsuwonus pelamis         |                      |     |               |               |               |                 |    | 56              |    |                 |             |                  |    |              | 0  |                 |              |                  |              |     |               | 56    |     |
|                    | SPF                    | Tetrapturus pfluegeri      |                      |     | 1             |               |               |                 |    |                 |    |                 | 12          |                  |    |              |    | 0               |              |                  |              |     | 0             | 13    |     |
|                    | SWO                    | Xiphias gladius            | 5                    | 10  | 33            |               |               | 84              | 15 | 1               |    |                 |             |                  |    |              | 0  | 1               |              |                  |              | 138 | 72            | 359   |     |
|                    | WHM                    | Tetrapturus albidus        | 0                    | 1   | 1             |               |               |                 |    | 0               |    |                 | 2           |                  |    |              | 0  | 0               | 3            |                  |              | 2   | 1             | 2     | 12  |
| YFT                | Thunnus albacares      | 0                          | 0                    |     |               |               |               |                 | 40 |                 |    | 6               |             |                  |    | 5            | 11 |                 |              |                  |              |     | 0             | 63    |     |
| 2-Tuna (small)     | FRI                    | Auxis thazard              |                      |     |               |               |               |                 |    | 60              |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 0     | 60  |
|                    | BLF                    | Thunnus atlanticus         |                      |     |               |               |               |                 |    |                 |    |                 |             |                  |    | 0            | 0  |                 |              |                  |              |     | 1             | 1     |     |
|                    | BLT                    | Auxis rochei               |                      |     |               |               |               |                 | 12 |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 12    |     |
|                    | DOL                    | Coryphaena hippurus        |                      |     |               |               |               |                 | 6  | 4               |    |                 |             |                  |    | 0            |    |                 |              |                  |              |     | 0             | 10    |     |
|                    | LTA                    | Euthynnus alletteratus     |                      |     | 0             |               |               |                 | 64 |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 0     | 64  |
| WAH                | Acanthocybium solandri |                            |                      |     |               |               |               |                 | 15 | 8               |    |                 |             |                  |    |              | 0  |                 |              |                  |              |     | 0             | 23    |     |
| 3-Tuna (other)     | BLM                    | Makaira indica             |                      | 0   |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 0     | 0   |
|                    | MLS                    | Tetrapturus audax          |                      |     |               |               |               |                 |    |                 |    |                 |             |                  |    | 0            |    |                 |              |                  |              |     |               | 0     |     |
|                    | SBF                    | Thunnus maccoyii           |                      |     |               |               |               |                 |    |                 |    |                 |             | 1                | 2  |              |    |                 |              |                  |              |     |               | 3     |     |
|                    | SSP                    | Tetrapturus angustirostris |                      |     | 1             |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               |       | 1   |
| 4-Sharks (major)   | BSH                    | Prionace glauca            | 71                   | 591 | 127           |               |               |                 |    | 0               | 1  |                 |             |                  | 2  | 107          |    |                 |              |                  | 0            | 11  |               | 0     | 911 |
|                    | POR                    | Lamna nasus                | 3                    | 56  | 0             |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              | 1   |               | 60    |     |
|                    | SMA                    | Isurus oxyrinchus          | 2                    | 28  | 5             |               |               |                 |    | 1               | 1  |                 | 24          |                  |    |              | 0  | 0               |              |                  | 0            | 1   |               | 62    |     |
| 5-Sharks (other)   | ALV                    | Alopias vulpinus           | 0                    | 2   | 1             |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 4     |     |
|                    | BSK                    | Cetorhinus maximus         | 7                    | 13  |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 20    |     |
|                    | BTH                    | Alopias superciliosus      |                      |     | 3             |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  | 9            |     |               | 12    |     |
|                    | FAL                    | Carcharhinus falciformis   |                      |     | 0             |               |               |                 |    | 43              | 84 |                 |             |                  |    |              | 0  | 1               |              |                  | 23           |     |               | 151   |     |
|                    | LMA                    | Isurus paucus              |                      |     |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  | 4            |     |               | 4     |     |
|                    | LMO                    | Mitsukurina owstoni        |                      |     |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              |                  |              |     |               | 0     |     |
|                    | MSK                    | Lamidae                    | 0                    | 2   |               |               |               |                 |    |                 |    |                 |             |                  |    |              |    |                 |              | 0                |              |     |               | 2     |     |
|                    | OCS                    | Carcharhinus longimanus    |                      | 0   |               |               |               |                 |    | 0               | 0  |                 |             |                  |    |              |    |                 |              |                  |              |     |               |       |     |

Table 11. Preliminary extractions of sea turtle dead discards (DD) and live discards (DL) in numbers (n) reported on form ST09-NatObProg by CPCs for 2018.

Tableau 11. Extractions préliminaires des rejets morts (DD) et des rejets vivants (DL) de tortues marines, en nombres (n) déclarées dans le formulaire ST09-NatObProg par CPC pour 2018.

Tabla 11. Extracciones preliminares de descartes muertos (DD) y descartes vivos (DL) en números (n) comunicados por las CPC en el formulario ST09-NatObProg para 2018.

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

Table 12. Preliminary extractions of seabird by-catch data for dead discards (DD) and live discards (DL) in numbers (n) reported on form ST09-NatObProg by CPCs for 2018.

Tableau 12. Extractions préliminaires des données de prise accessoire de rejets morts (DD) et de rejets vivants (DL) d'oiseaux de mer, en nombres (n) déclarées dans le formulaire ST09-NatObProg par CPC pour 2018.

Tabla 12. Extracciones preliminares de datos de captura fortuita de aves marinas sobre descartes (DD) y descartes vivos (DL) en números (n) comunicados por las CPC en el formulario ST09-NatObProg para 2018.

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

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

Page 34 of 54





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

Page 36 of 54

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

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

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

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

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

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

Table 17. Summary of Task II size information historical series updated during 2018 (number of fish by species flag, gear, time-area stratification) and already in ICCAT-DB system.  
Tableau 17. Résumé des séries historiques des données de tailles de Tâche II mises à jour en 2018 (nombres de poissons par espèce, pavillon, engin, stratification spatio-temporelle) et déjà saisies dans le système ICCAT-DB.  
Tabla 17. Resumen de las series históricas de información sobre talla de Tarea II actualizadas durante 2018 (número de ejemplares por especie, pabellón, arte, estratificación espacio-temporal) ya en el sistema ICCAT-DB.

| DSet | Speciea | Gear group | Flag                             | Time strata | Geog. strata | Freq. Type  | Decade/Year |       |       |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                     |  |  |  |  |  | Remarks |
|------|---------|------------|----------------------------------|-------------|--------------|-------------|-------------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------|--|--|--|--|--|---------|
|      |         |            |                                  |             |              |             | 1990        |       |       |      |      |      |      | 2000  |       |       |       |       |       |       | 2010  |       |       |       |       |       |       |       |                                     |  |  |  |  |  |         |
|      |         |            |                                  |             |              |             | 1993        | 1994  | 1995  | 1996 | 1997 | 1998 | 1999 | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  |                                     |  |  |  |  |  |         |
| T2SZ | YFT     | LL         | Mexico                           | mm          | 5x5          | SFL (1 cm)  | 4331        | 20165 | 27848 | 8097 | 4959 | 8759 |      | 23708 | 22623 | 30592 | 37053 | 33648 | 29767 | 26795 | 24952 | 27221 | 33781 | 27139 | 30628 | 36842 | 26923 | 26704 | WG-TROP request (adopted)           |  |  |  |  |  |         |
|      | WHM     | LL         | EU.España<br>Venezuela<br>Mexico | mm          | 5x5          | UJFL (5 cm) | 12          | 56    | 87    | 41   | 45   | 29   | 120  | 189   | 103   | 3     | 62    | 212   | 203   | 125   | 29    | 47    | 7     | 15    | 1     | 56    | 138   | 66    | WG-BIL recoveries request (adopted) |  |  |  |  |  |         |
|      |         |            |                                  | mm          |              | LatLon      |             |       |       |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 252   |                                     |  |  |  |  |  |         |
|      |         |            |                                  | mm          | 5x5          | UJFL (1 cm) | 42          | 340   | 569   | 148  | 79   | 172  | 258  | 605   | 717   | 882   | 782   | 1565  | 1512  | 861   | 733   | 834   | 1157  | 1254  | 1783  | 2345  | 1870  | 1225  |                                     |  |  |  |  |  |         |

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

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

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

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

Table 19. Reported catch (t) of BFT-E according to the Weekly Catch Reports (2018 is incomplete) as of 18 October 2019.

Tableau 19 Prises déclarées (t) de thon rouge de l'Est d'après les rapports hebdomadaires de capture (l'année 2018 est incomplète) au 18 octobre 2019.

Tabla 19. Captura declarada (t) de atún rojo del Este según los informes de captura semanales (2018 está incompleto) a 18 de octubre de 2019.

| Catch(t)    |                | Gear Group   | LL    |      |           |            |      | PS    |      |           |            |      | BB  |      |           |            |      | GN  | HL  | TW   | TP   | OT  | UN  | MULTIPURPOSE VESSELS |      |           |            | AUX  |      |           |            | Grand Total |      |
|-------------|----------------|--------------|-------|------|-----------|------------|------|-------|------|-----------|------------|------|-----|------|-----------|------------|------|-----|-----|------|------|-----|-----|----------------------|------|-----------|------------|------|------|-----------|------------|-------------|------|
|             |                |              | 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 | <=15 | >15 - <20 | >=20 - <40 |             | >=40 |
| Season Year | Reported flag  | Fishing Flag |       |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            |             |      |
| 2017        | Albania        | Albania      |       |      |           |            |      | 0     |      | 0         |            |      |     |      |           |            |      |     |     |      | 0    |     |     |                      |      |           |            |      |      |           | 0          |             |      |
|             | Algerie        | Algerie      |       |      |           |            |      | 608   | 272  | 57        | 102        |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 1038       |             |      |
|             | China PR       | China PR     | 10    |      | 1         | 25         | 3    | 25    |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 64         |             |      |
|             | Egypt          | Egypt        |       |      |           |            |      | 96    |      | 27        | 0          |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 124        |             |      |
|             | European Union | EU.Croatia   |       |      |           |            |      | 261   | 57   | 84        | 22         |      |     |      |           |            |      | 45  |     |      |      |     |     |                      |      | 103       | 20         | 26   | 14   |           | 631        |             |      |
|             |                | EU.Cyprus    | 22    | 5    | 18        | 5          | 1    |       |      |           |            |      |     |      |           |            |      |     |     |      |      | 34  | 0   | 26                   |      |           |            |      |      |           | 111        |             |      |
|             |                | EU.España    | 63    | 19   | 29        | 10         | 7    | 921   | 319  | 144       | 139        |      | 6   | 0    |           | 19         | 0    | 0   | 344 | 1299 |      |     |     |                      |      |           |            |      |      |           | 3311       |             |      |
|             |                | EU.France    | 140   | 8    | 89        | 36         | 32   | 2162  | 195  | 792       | 170        |      |     |      |           |            |      |     | 69  | 236  |      | 23  | 41  |                      | 100  | 75        | 19         | 1    |      |           | 3995       |             |      |
|             |                | EU.Greece    |       |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            | 195         |      |
|             |                | EU.Italy     | 129   | 19   | 40        | 26         |      | 1250  | 649  | 538       | 23         |      |     |      |           |            |      |     |     |      | 278  |     |     |                      |      |           |            |      |      |           |            | 2951        |      |
|             |                | EU.Malta     | 50    | 12   | 20        | 10         |      | 68    |      |           | 62         | 15   |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 0          | 1    | 1    | 0         |            | 240         |      |
|             |                | EU.Portugal  |       |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      | 368 |     |                      |      |           |            |      |      |           |            | 368         |      |
|             | Iceland        | Iceland      |       |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     | 0   |                      |      |           |            |      |      |           |            | 0           |      |
|             | Japan          | Japan        | 372   | 53   | 392       | 108        | 20   |       |      |           |            |      |     |      |           |            |      |     |     |      |      | 56  |     |                      |      |           |            |      |      |           |            | 1002        |      |
|             | Korea Rep      | Korea Rep    | 59    |      |           | 81         | 12   | 3     |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            | 155         |      |
|             | Libya          | Libya        |       |      |           |            |      | 250   | 166  | 123       | 85         |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 23         | 5    |      |           |            | 652         |      |
|             | Maroc          | Maroc        | 2     |      |           | 1          | 2    | 0     | 173  | 14        | 53         |      |     |      |           |            |      |     | 154 |      | 1717 |     | 3   |                      |      |           |            |      |      |           |            | 2120        |      |
|             | Norway         | Norway       |       |      |           |            |      | 25    |      |           | 22         |      |     |      |           |            |      |     |     |      |      |     | 4   |                      |      |           |            |      |      |           |            |             | 51   |
|             | Syria          | Syria        |       |      |           |            |      | 57    | 0    |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            | 57          |      |
|             | Tunisie        | Tunisie      |       |      |           |            |      | 662   | 193  | 284       | 145        |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 189        | 17   | 129  | 68        |            | 1685        |      |
|             | Turkey         | Maroc        |       |      |           |            |      | 90    |      | 7         |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            | 97          |      |
|             |                | Turkey       |       |      |           |            |      | 736   | 218  | 117       | 76         |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 208        | 52   | 57   | 57        |            | 1521        |      |
| 2017 Total  |                |              | 847   | 118  | 696       | 214        | 88   | 7359  | 2082 | 2289      | 799        |      | 6   | 0    | 19        | 0          | 0    | 611 | 236 | 3661 | 23   | 105 | 135 | 75                   | 45   | 1         | 523        | 95   | 212  | 139       |            | 20377       |      |
| 2018        | Albania        | Albania      |       |      |           |            |      | 32    |      | 26        |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 58         |             |      |
|             | Algerie        | Algerie      |       |      |           |            |      | 447   | 51   | 666       | 137        |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 1300       |             |      |
|             | China PR       | China PR     | 32    |      |           | 9          | 38   |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 79         |             |      |
|             | Egypt          | Egypt        |       |      |           |            |      | 0     | 76   | 105       |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 181        |             |      |
|             | European Union | EU.Croatia   |       |      |           |            |      | 165   | 34   | 155       | 89         |      |     |      |           |            |      |     | 59  |      |      |     |     |                      |      | 60        | 12         | 78   | 35   |           | 687        |             |      |
|             |                | EU.Cyprus    | 23    | 1    | 29        | 2          |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 20         | 0    | 44   | 0         | 121        |             |      |
|             |                | EU.España    | 33    | 8    | 22        | 10         | 0    |       |      |           |            |      | 20  | 4    |           | 12         | 11   | 1   | 444 | 1746 |      | 32  |     |                      |      |           |            |      |      |           | 2343       |             |      |
|             |                | EU.France    | 179   | 30   | 174       | 52         | 1    | 1359  | 299  | 1784      | 487        |      |     |      |           |            |      | 0   | 44  | 304  |      | 19  | 1   |                      |      |           |            |      |      |           | 4735       |             |      |
|             |                | EU.Italy     | 127   | 50   | 112       | 137        |      | 974   | 64   | 1121      | 92         |      |     |      |           |            |      |     |     |      | 254  |     |     |                      |      | 0         | 56         | 0    |      |           | 2985       |             |      |
|             |                | EU.Malta     | 44    | 13   | 37        | 20         | 0    | 64    | 76   | 38        | 0          |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 292        |             |      |
|             |                | EU.Portugal  |       |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      | 330  |     |     |                      |      |           |            |      |      |           | 330        |             |      |
|             | Japan          | Japan        | 988   | 69   | 983       | 217        | 2    |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 2259       |             |      |
|             | Korea Rep      | Korea Rep    | 73    | 5    | 86        | 15         |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 179        |             |      |
|             | Libya          | Libya        |       |      |           |            |      | 752   | 53   | 696       | 136        |      |     |      |           |            |      |     |     |      |      |     |     |                      |      | 128       |            | 0    |      |           | 1765       |             |      |
|             | Maroc          | Maroc        | 8     | 3    | 16        |            |      | 64    | 17   | 60        | 1          |      |     |      |           |            |      |     | 222 |      | 2013 |     | 22  |                      |      |           |            |      |      |           | 2426       |             |      |
|             | Norway         | Norway       |       |      |           |            |      |       |      | 11        |            |      |     |      |           |            |      |     |     |      |      |     | 2   |                      |      |           |            |      |      |           |            | 12          |      |
|             | Syria          | Syria        |       |      |           |            |      | 0     |      |           | 66         |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           |            | 66          |      |
|             | Tunisie        | Tunisie      |       |      |           |            |      | 643   | 387  | 455       | 120        |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 172        | 61   | 166  | 23        |            | 2028        |      |
|             | Turkey         | Turkey       |       |      |           |            |      | 407   | 34   | 558       | 80         |      |     |      |           |            |      |     |     |      |      |     |     |                      |      | 114       | 8          | 86   | 10   |           | 1296       |             |      |
| 2018 Total  |                |              | 1508  | 179  | 1468      | 491        | 3    | 4907  | 1091 | 5673      | 1208       |      | 20  | 4    | 12        | 11         |      | 2   | 769 | 304  | 4342 | 19  | 57  |                      |      | 494       | 136        | 375  | 68   |           | 23141      |             |      |
| 2019        | Albania        | Albania      |       |      |           |            |      | 156   |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 156        |             |      |
|             | Algerie        | Algerie      |       |      |           |            |      | 1250  |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 1250       |             |      |
|             | China PR       | China PR     | 4     |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 4          |             |      |
|             | Egypt          | Egypt        |       |      |           |            |      | 155   | 13   | 4         |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 172        |             |      |
|             | European Union | EU.Croatia   |       |      |           |            |      | 555   |      |           |            |      |     |      |           |            |      |     | 33  |      |      |     |     |                      |      | 195       |            |      |      |           | 783        |             |      |
|             |                | EU.Cyprus    | 57    | 0    | 0         | 1          | 0    |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      | 85        |            |      |      |           | 144        |             |      |
|             |                | EU.España    | 28    | 8    | 5         | 6          | 0    | 2003  |      | 54        | 50         | 173  | 16  | 5    | 15        | 6          | 1    | 459 |     | 1734 |      | 122 |     |                      |      |           |            |      |      |           | 4686       |             |      |
|             |                | EU.France    | 343   | 7    | 7         | 14         | 3    | 4362  |      |           |            |      |     |      |           |            |      | 3   | 81  | 213  |      | 18  | 9   |                      |      |           |            |      |      |           | 5061       |             |      |
|             |                | EU.Italy     | 276   | 56   | 33        | 32         | 1    | 2956  |      |           |            |      |     |      |           |            |      |     |     |      | 358  |     |     |                      |      | 103       |            |      |      |           | 3814       |             |      |
|             |                | EU.Malta     | 27    | 1    | 0         |            |      | 256   |      |           |            |      |     |      |           |            |      |     |     |      |      | 0   |     |                      |      |           |            |      |      |           | 284        |             |      |
|             |                | EU.Portugal  |       |      |           |            |      |       |      |           |            |      | 5   | 1    | 1         |            |      |     |     |      | 224  |     |     |                      |      |           |            |      |      |           | 231        |             |      |
|             | Japan          | Japan        | 318   |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 318        |             |      |
|             | Korea Rep      | Korea Rep    | 80    |      |           |            |      |       |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 80         |             |      |
|             | Libya          | Libya        |       |      |           |            |      | 1959  |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 1959       |             |      |
|             | Maroc          | Maroc        | 18    |      |           |            |      | 128   | 2    | 1         |            |      |     |      |           |            |      |     | 194 |      | 2476 |     | 12  |                      |      |           |            |      |      |           | 2829       |             |      |
|             | Norway         | Norway       | 0     |      |           |            |      | 48    |      |           |            |      |     |      |           |            |      |     |     |      |      |     | 2   |                      |      |           |            |      |      |           | 50         |             |      |
|             | Syria          | Syria        |       |      |           |            |      | 72    |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 72         |             |      |
|             | Tunisie        | Tunisie      |       |      |           |            |      | 483   |      |           |            |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           | 76         |      |      |           | 559        |             |      |
|             | Turkey         | Turkey       |       |      |           |            |      | 1720  | 35   | 1         | 4          |      |     |      |           |            |      |     |     |      |      |     |     |                      |      |           |            |      |      |           | 1760       |             |      |
| 2019 Total  |                |              | 1152  | 73   | 45        | 54         | 4    | 16103 | 50   | 60        | 54         | 177  | 18  | 6    | 15        | 6          | 4    | 767 | 213 | 4792 | 18   | 145 |     |                      |      | 458       |            |      |      |           | 24211      |             |      |

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

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

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

| Catch (t)   |              |         | Western Stock Unit |                          |       |        |        | Grand Total |
|-------------|--------------|---------|--------------------|--------------------------|-------|--------|--------|-------------|
| Season Year | Fishing Year | cmMonth | Canada             | FR.St Pierre et Miquelon | Japan | Mexico | U.S.A. |             |
| 2017        | 2017         | 1       |                    | 0                        |       | 3      | 16     | 19          |
|             |              | 2       |                    | 0                        |       | 4      | 62     | 66          |
|             |              | 3       |                    | 0                        |       | 12     | 48     | 60          |
|             |              | 4       |                    | 0                        |       | 13     | 6      | 19          |
|             |              | 5       |                    | 0                        |       | 1      | 6      | 7           |
|             |              | 6       | 2                  | 0                        |       | 0      | 28     | 30          |
|             |              | 7       | 6                  | 0                        |       | 0      | 158    | 164         |
|             |              | 8       | 48                 | 0                        |       | 0      | 235    | 283         |
|             |              | 9       | 151                | 0                        | 32    | 0      | 298    | 481         |
|             |              | 10      | 207                | 0                        | 164   | 0      | 98     | 469         |
|             |              | 11      | 101                | 0                        |       | 0      | 9      | 110         |
|             |              | 12      | 3                  | 0                        |       | 0      | 22     | 25          |
| 2017 Total  |              |         | 517                | 0                        | 196   | 32     | 988    | 1734        |
| 2018        | 2018         | 1       |                    | 0                        |       | 2      | 11     | 12          |
|             |              | 2       |                    | 0                        |       | 2      | 68     | 71          |
|             |              | 3       |                    | 0                        |       | 33     | 17     | 50          |
|             |              | 4       |                    | 0                        |       | 26     | 6      | 31          |
|             |              | 5       |                    | 0                        |       | 14     | 13     | 27          |
|             |              | 6       | 3                  | 0                        |       | 0      | 52     | 55          |
|             |              | 7       | 5                  | 0                        |       | 0      | 196    | 201         |
|             |              | 8       | 48                 | 0                        |       | 0      | 223    | 271         |
|             |              | 9       | 123                | 0                        |       | 0      | 253    | 376         |
|             |              | 10      | 235                | 0                        | 122   | 0      | 126    | 484         |
|             |              | 11      | 88                 | 0                        | 273   | 0      | 47     | 409         |
|             |              | 12      | 4                  | 0                        |       | 2      | 16     | 23          |
| 2018 Total  |              |         | 506                | 0                        | 396   | 79     | 1029   | 2009        |
| 2019        | 2019         | 1       |                    | 0                        |       | 3      | 28     | 31          |
|             |              | 2       |                    | 0                        |       | 5      | 97     | 102         |
|             |              | 3       |                    | 0                        |       | 21     | 17     | 38          |
|             |              | 4       |                    | 0                        |       | 13     | 6      | 20          |
|             |              | 5       |                    | 0                        |       | 0      | 21     | 21          |
|             |              | 6       | 43                 | 0                        |       | 0      | 72     | 115         |
|             |              | 7       | 4                  | 0                        |       | 0      | 319    | 323         |
|             |              | 8       | 68                 | 0                        |       | 0      | 167    | 235         |
|             |              | 9       |                    | 0                        |       | 0      |        | 0           |
| 2019 Total  |              |         | 116                | 0                        | 42    | 727    | 885    |             |



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

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

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

| Caging Wgt (t) |                           | Farming Flag |           |          |             |       |         |        |             |
|----------------|---------------------------|--------------|-----------|----------|-------------|-------|---------|--------|-------------|
| Farming Year   | Fishing Flag              | EU.Croatia   | EU.España | EU.Malta | EU.Portugal | Maroc | Tunisie | Turkey | Grand Total |
| 2017           | EU.España                 |              | 945       |          |             |       |         |        | 945         |
|                | EU.France                 |              | 806       |          |             |       |         |        | 806         |
|                | EU.Italy                  | 28           |           |          |             |       |         |        | 28          |
|                | Libya                     |              |           |          |             |       |         | 455    | 455         |
|                | Maroc                     |              |           |          |             | 338   |         | 50     | 388         |
|                | Tunisie                   |              |           |          |             |       | 136     |        | 136         |
|                | Turkey                    |              |           |          |             |       |         | 1678   | 1678        |
|                | EU.Croatia                | 134          |           |          |             |       |         |        | 134         |
|                | Syrian Arab Republic      |              |           |          |             |       |         | 57     | 57          |
|                | Unknown/Unclassified flag |              | 365       |          |             | 1433  |         |        | 1799        |
|                | Egypt                     |              |           |          |             |       |         | 87     | 87          |
|                | Eu.Portugal               | 420          |           | 7998     | 64          |       |         |        | 8483        |
| 2017 Total     |                           | 582          | 2116      | 7998     | 64          | 1771  | 136     | 2326   | 14993       |
| 2018           | EU.España                 |              | 4201      |          |             |       |         | 58     | 4259        |
|                | EU.France                 |              | 387       |          |             |       |         |        | 387         |
|                | EU.Malta                  |              | 365       |          |             |       |         |        | 365         |
|                | Maroc                     |              |           |          |             | 4054  |         |        | 4054        |
|                | Tunisie                   |              |           |          |             |       | 655     |        | 655         |
|                | Turkey                    |              |           |          |             |       |         | 1677   | 1677        |
|                | EU.Croatia                | 186          |           |          |             |       |         |        | 186         |
|                | Unknown/Unclassified flag |              | 673       |          |             |       |         |        | 673         |
|                | Belize                    |              | 162       |          |             |       |         |        | 162         |
|                | Eu.Portugal               | 487          |           | 9266     | 125         |       |         |        | 9878        |
| 2018 Total     |                           | 673          | 5788      | 9266     | 125         | 4054  | 655     | 1736   | 22296       |
| 2019           | EU.España                 |              | 4155      |          |             |       |         | 105    | 4260        |
|                | EU.France                 |              | 366       |          |             |       |         |        | 366         |
|                | EU.Malta                  |              |           |          |             |       | 160     |        | 160         |
|                | Libya                     |              |           |          |             |       | 239     |        | 239         |
|                | Maroc                     |              |           |          |             | 5491  |         |        | 5491        |
|                | Tunisie                   |              |           |          |             |       | 1299    |        | 1299        |
|                | Turkey                    |              |           |          |             |       |         | 2530   | 2530        |
|                | EU.Croatia                | 229          |           |          |             |       |         |        | 229         |
|                | Unknown/Unclassified flag |              | 677       |          |             |       |         |        | 677         |
|                | Belize                    |              | 507       |          |             |       |         |        | 507         |
|                | Eu.Portugal               | 516          |           |          | 72          |       |         |        | 588         |
| 2019 Total     |                           | 745          | 5705      |          | 72          | 5491  | 1698    | 2634   | 16347       |

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

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

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

| Reporting CPC           | Year | Semester | Date reported | BET |    | SWO |    | * Other |
|-------------------------|------|----------|---------------|-----|----|-----|----|---------|
|                         |      |          |               | SD  | RC | SD  | RC |         |
| Canada                  | 2018 | 2        | 02-04-19      | √   |    | √   |    |         |
|                         | 2019 | 1        | 16-09-19      | √   |    | √   |    |         |
| China PR                | 2018 | 2        | 28-03-19      | √   |    | √   | √  |         |
|                         | 2019 | 1        | 15-09-19      | √   |    | √   |    |         |
| Chinese Taipei          | 2018 | 2        | 28-03-19      | √   |    | √   |    |         |
|                         | 2019 | 1        | 30-08-19      | √   |    | √   |    |         |
| Côte d'Ivoire           | 2018 | 2        | 27-03-19      | √   |    |     |    |         |
|                         | 2019 | 1        | 01-10-19      | √   |    |     |    |         |
| EU (all flags combined) | 2018 | 1        | 29-03-19      | √   | √  | √   | √  |         |
|                         |      | 2        | 24-04-19      | √   | √  | √   | √  |         |
|                         | 2019 | 1        | 13-09-19      | √   | √  | √   | √  |         |
| El Salvador             | 2018 | "yearly" | 24-09-19      | √   | √  |     |    |         |
| Ghana                   | 2018 | 1        | 02-08-19      | √   |    |     |    |         |
|                         |      | 2        | 02-08-19      | √   |    |     |    |         |
| Japan                   | 2018 | 1        | 02-10-18      | √   | √  | √   | √  |         |
|                         |      | 2        | 01-04-19      | √   | √  | √   | √  |         |
|                         | 2019 | 1        | 13-09-19      | √   | √  | √   | √  |         |
| Korea Rep.              | 2018 | 2        | 26-03-19      | √   | √  | √   |    | √       |
|                         | 2019 | 1        | 11-09-19      | √   | √  | √   | √  |         |
| Norway                  | 2018 | 2        | 29-03-19      |     |    | √   |    |         |
|                         | 2019 | 1        | 15-09-19      | √   |    | √   |    |         |
| Senegal                 | 2018 | 2        | 13-06-19      |     |    |     |    | √       |
| Trinidad and Tobago     | 2018 | 1        | 02-11-18      | √   |    |     |    |         |
|                         |      | 2        | 03-04-19      | √   |    | √   |    |         |
|                         | 2019 | 1        | 16-09-19      |     |    | √   |    |         |
| Turkey                  | 2018 | 2        | 22-04-19      | √   |    | √   |    |         |
|                         | 2019 | 1        | 04-09-19      | √   |    | √   |    |         |
| U.S.A.                  | 2018 | 1        | 01-10-18      | √   |    | √   |    | √       |
|                         |      | 2        | 14-09-19      | √   |    | √   |    | √       |
|                         | 2019 | 1        | 14-09-19      | √   |    | √   |    | √       |

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

Tableau 23. Espadon : Données de la Tâche I (t) par opposition aux données commerciales (SDP) en poids de produit (t), par stock et pavillon entre 2011 et 2019 (données SDP pour 2019 uniquement avec le premier semestre).

|       |       |       |       |       |       |       |       |       |      |      |      |      |     |      |     |      |      |     |     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|------|-----|------|------|-----|-----|
| UNK   |       |       |       |       |       |       |       |       | 312  | 796  | 5950 | 2089 | 466 | 2645 | 10  | 10   | 489  | 549 |     |
| TOTAL | 35428 | 34467 | 30334 | 30435 | 31762 | 31955 | 29128 | 26346 | 3869 | 4575 | 9929 | 3951 | 769 | 4689 | 384 | 2337 | 1760 | 489 | 549 |

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

Page 46 of 54

Table 25. Amounts (t) of various tuna and tuna-like species transhipped at sea as reported under Rec. [06-11] by product type.  
Tableau 25. Volumes (t) de divers thonidés et espèces apparentées transbordés en mer tels que déclarés en vertu de la Rec. 06-11, par type de produit.  
Tabla 25. Cantidades (t) de varios túnidos y especies afines transbordadas en el mar y declaradas con arreglo a la Rec 06-11, por tipo de producto.

| Year       | Fishing Flag               | Species Code | Product Type (t) |                 |        |        |             |            |                |            |       |          |      | Grand Total |
|------------|----------------------------|--------------|------------------|-----------------|--------|--------|-------------|------------|----------------|------------|-------|----------|------|-------------|
|            |                            |              | Dressed weight   | Gilled & gutted | Number | Fillet | Live weight | Shark fins | Rounded Weight | Belly meat | Other | Head off | Roes |             |
| 2017       | Chinese Taipei             | ALB          |                  | 9006.96         |        |        |             |            | 3.10           |            |       |          |      | 3.10        |
|            |                            | BET          |                  | 0.30            |        |        |             |            |                |            |       |          |      | 9006.96     |
|            |                            | MLS          | 203.48           | 11.86           |        |        |             |            |                |            |       |          |      | 0.30        |
|            |                            | SWO          |                  | 449.37          |        |        |             |            |                |            |       |          |      | 215.34      |
|            |                            | YFT          |                  |                 |        |        |             |            |                |            |       |          |      | 449.37      |
|            | China, P.R.                | ALB          | 0.61             | 0.29            |        |        |             |            | 133.04         |            |       |          |      | 133.94      |
|            |                            | BET          |                  | 5634.86         |        |        |             |            |                |            |       |          |      | 5634.86     |
|            |                            | BLM          | 0.45             |                 |        |        |             |            |                |            |       |          |      | 0.45        |
|            |                            | BSH          | 13.49            |                 |        |        |             |            |                |            |       |          |      | 13.49       |
|            |                            | BUM          | 18.74            | 15.83           |        |        |             |            | 0.23           |            |       |          |      | 34.79       |
|            |                            | MAK          | 2.16             |                 |        |        |             |            |                |            |       |          |      | 2.16        |
|            |                            | MIX          |                  | 123.07          |        |        |             |            |                |            |       |          |      | 123.07      |
|            |                            | OIL          | 9.04             |                 |        |        |             |            | 7.02           |            |       |          |      | 16.06       |
|            |                            | OTF          |                  |                 |        |        |             |            |                |            | 8.54  |          |      | 8.54        |
|            |                            | PXX          | 0.34             |                 |        |        |             |            |                |            |       |          |      | 0.34        |
|            |                            | SAI          | 0.54             |                 |        |        |             |            |                |            |       |          |      | 0.54        |
|            |                            | SSM          | 0.92             | 0.04            |        |        |             |            | 0.70           |            |       |          |      | 1.66        |
|            |                            | SWO          | 306.44           | 9.74            |        |        |             |            |                |            |       |          |      | 316.18      |
|            |                            | YFT          |                  | 414.14          |        |        |             |            |                |            |       |          |      | 414.14      |
|            |                            | SKH          | 2.53             |                 |        |        |             |            |                |            |       |          |      | 2.53        |
|            |                            | OPA          | 3.55             |                 |        |        |             |            | 0.13           |            |       |          |      | 3.68        |
|            | Korea, Republic of         | ALB          |                  | 0.15            |        |        |             |            | 0.37           |            |       |          |      | 0.53        |
|            |                            | BET          |                  | 199.11          |        |        |             |            |                |            |       |          |      | 199.11      |
|            |                            | BIL          |                  | 0.01            |        |        |             |            |                |            |       |          |      | 0.01        |
|            |                            | BUM          |                  | 2.93            |        |        |             |            |                |            |       |          |      | 2.93        |
|            |                            | MLS          |                  | 0.09            |        |        |             |            |                |            |       |          |      | 0.09        |
|            |                            | OIL          | 4.40             | 1.02            |        |        |             |            |                |            |       |          |      | 5.42        |
|            |                            | OTF          | 1.83             |                 |        |        |             |            |                |            |       |          |      | 13.67       |
|            |                            | SAI          | 1.42             | 1.52            |        |        |             |            |                | 0.32       | 11.52 |          |      | 2.94        |
|            |                            | SBF          |                  | 156.02          |        |        |             |            |                |            |       |          |      | 156.02      |
|            |                            | SKJ          |                  | 0.01            |        |        |             |            | 0.08           |            |       |          |      | 0.09        |
|            |                            | SWO          | 7.19             | 3.07            |        | 0.10   |             |            |                |            |       |          |      | 10.36       |
|            |                            | TUN          |                  |                 |        |        |             |            |                |            | 1.10  |          |      | 1.10        |
|            |                            | YFT          |                  | 239.42          |        |        |             |            |                |            |       |          |      | 239.42      |
|            | Japan                      | ALB          | 2.80             | 1.64            |        |        | 63.79       |            | 1009.86        |            |       |          |      | 1078.09     |
|            |                            | BET          |                  | 6410.05         |        | 1.05   |             |            |                |            |       |          |      | 6411.10     |
|            |                            | BIL          |                  | 0.60            |        |        |             |            |                |            |       |          |      | 0.60        |
|            |                            | BLM          | 2.50             | 0.08            |        |        |             |            |                |            |       |          |      | 2.58        |
|            |                            | BSH          | 8.07             |                 |        |        |             |            |                |            |       |          |      | 8.07        |
|            |                            | BUK          | 109.69           |                 |        |        |             |            |                |            |       |          |      | 109.69      |
|            |                            | BUM          | 168.81           | 41.94           |        | 3.77   |             |            | 0.70           |            | 0.12  |          |      | 215.34      |
|            |                            | COM          | 0.50             |                 |        |        |             |            |                |            |       |          |      | 0.50        |
|            |                            | MAK          |                  |                 |        | 3.01   |             |            |                |            |       |          |      | 3.01        |
|            |                            | MIX          |                  |                 |        | 0.60   |             |            |                |            |       |          |      | 0.60        |
|            |                            | MLS          | 2.36             | 4.02            |        | 0.02   |             |            |                |            |       |          |      | 6.41        |
|            |                            | OIL          |                  |                 |        |        |             |            | 0.18           |            |       |          |      | 0.18        |
|            |                            | OTF          |                  |                 |        |        |             |            | 0.30           |            | 11.48 |          |      | 11.78       |
|            |                            | SAI          | 3.89             |                 |        |        |             |            |                |            |       |          |      | 3.89        |
|            |                            | SBF          |                  | 1090.01         |        |        |             |            |                |            |       |          |      | 1090.01     |
|            |                            | SKJ          |                  |                 |        |        |             |            | 0.31           |            |       |          |      | 0.31        |
|            |                            | SMA          | 0.88             |                 |        | 2.21   |             | 0.02       |                |            | 0.02  |          |      | 3.12        |
|            |                            | SSM          | 3.29             | 0.02            |        |        |             |            | 1.12           |            |       |          |      | 4.44        |
|            |                            | SSP          | 0.24             |                 |        |        |             |            |                |            |       |          |      | 0.24        |
|            |                            | SWO          | 499.78           | 9.87            |        | 157.73 |             |            | 4.78           |            |       |          |      | 672.16      |
|            |                            | WAH          | 4.12             |                 |        |        |             |            |                |            |       |          |      | 4.12        |
|            |                            | YFT          |                  | 1898.21         |        |        |             |            |                |            |       |          |      | 1898.21     |
|            |                            | MAW          | 1.08             |                 |        |        |             |            | 0.44           |            |       |          |      | 1.52        |
|            |                            | SKH          |                  |                 |        | 3.21   |             | 0.53       |                |            | 0.27  |          |      | 4.01        |
|            |                            | OPA          | 45.50            | 0.25            |        |        |             |            |                |            |       |          |      | 45.75       |
|            |                            | DOL          | 0.54             |                 |        |        |             |            | 1.51           |            |       |          |      | 2.05        |
|            |                            | BLZ          |                  | 2.38            |        |        |             |            |                |            |       |          |      | 2.38        |
|            |                            | SFA          | 4.41             |                 |        |        |             |            |                |            |       |          |      | 4.41        |
|            | Belize                     | BET          |                  | 333.89          |        |        |             |            |                |            |       |          |      | 333.89      |
|            |                            | SWO          |                  | 21.50           |        |        |             |            |                |            |       |          |      | 21.50       |
|            |                            | YFT          |                  | 18.66           |        |        |             |            |                |            |       |          |      | 18.66       |
|            | St. Vincent and Grenadines | BET          |                  | 238.14          |        |        |             |            |                |            |       |          |      | 238.14      |
|            |                            | YFT          |                  | 17.35           |        |        |             |            |                |            |       |          |      | 17.35       |
|            | Côte d'Ivoire              | BET          |                  | 243.48          |        |        |             |            |                |            |       |          |      | 243.48      |
|            |                            | SWO          | 16.12            |                 |        |        |             |            |                |            |       |          |      | 16.12       |
|            |                            | YFT          |                  | 11.30           |        |        |             |            |                |            |       |          |      | 11.30       |
|            | Senegal                    | ALB          |                  |                 |        |        |             |            | 2.91           |            |       |          |      | 2.91        |
|            |                            | BET          |                  | 197.49          |        |        |             |            |                |            |       |          |      | 197.49      |
|            |                            | SWO          | 22.75            | 8.76            |        |        |             |            |                |            |       |          |      | 22.75       |
|            |                            | YFT          |                  |                 |        |        |             |            |                |            |       |          |      | 8.76        |
|            | Spain                      | BET          |                  | 31.79           |        |        |             |            |                |            |       |          |      | 31.79       |
|            |                            | YFT          |                  | 0.62            |        |        |             |            |                |            |       |          |      | 0.62        |
| 2017 Total |                            |              | 1474.45          | 26851.83        |        | 171.69 | 63.79       | 0.55       | 1166.79        | 0.32       | 33.05 |          |      | 29762.47    |
| 2018       | Chinese Taipei             | ALB          |                  |                 |        |        |             |            | 18.36          |            |       |          |      | 18.36       |
|            |                            | BET          |                  | 10027.76        |        |        |             |            |                |            |       |          |      | 10027.76    |
|            |                            | BUM          | 10.74            |                 |        |        |             |            |                |            |       |          |      | 10.74       |
|            |                            | MLS          |                  | 0.17            |        |        |             |            |                |            |       |          |      | 0.17        |

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

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

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

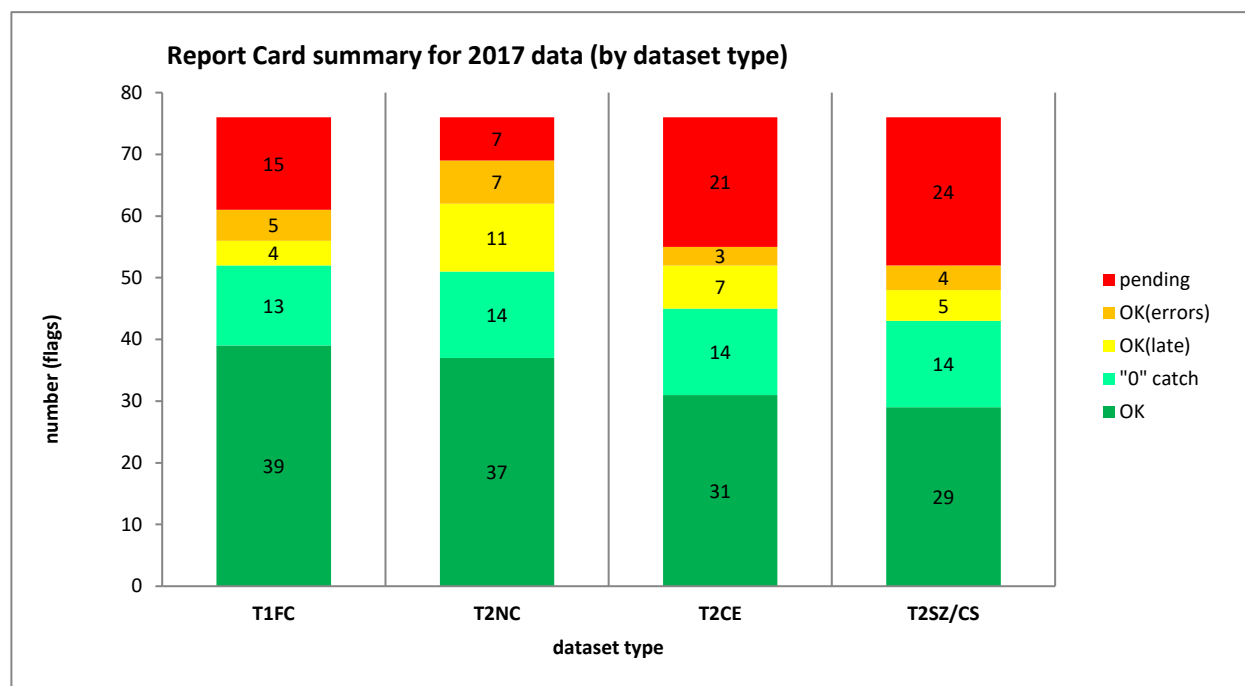
| Publication             |                        |        | Period     | Format |    |     | Content                                                                                               |
|-------------------------|------------------------|--------|------------|--------|----|-----|-----------------------------------------------------------------------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



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

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

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



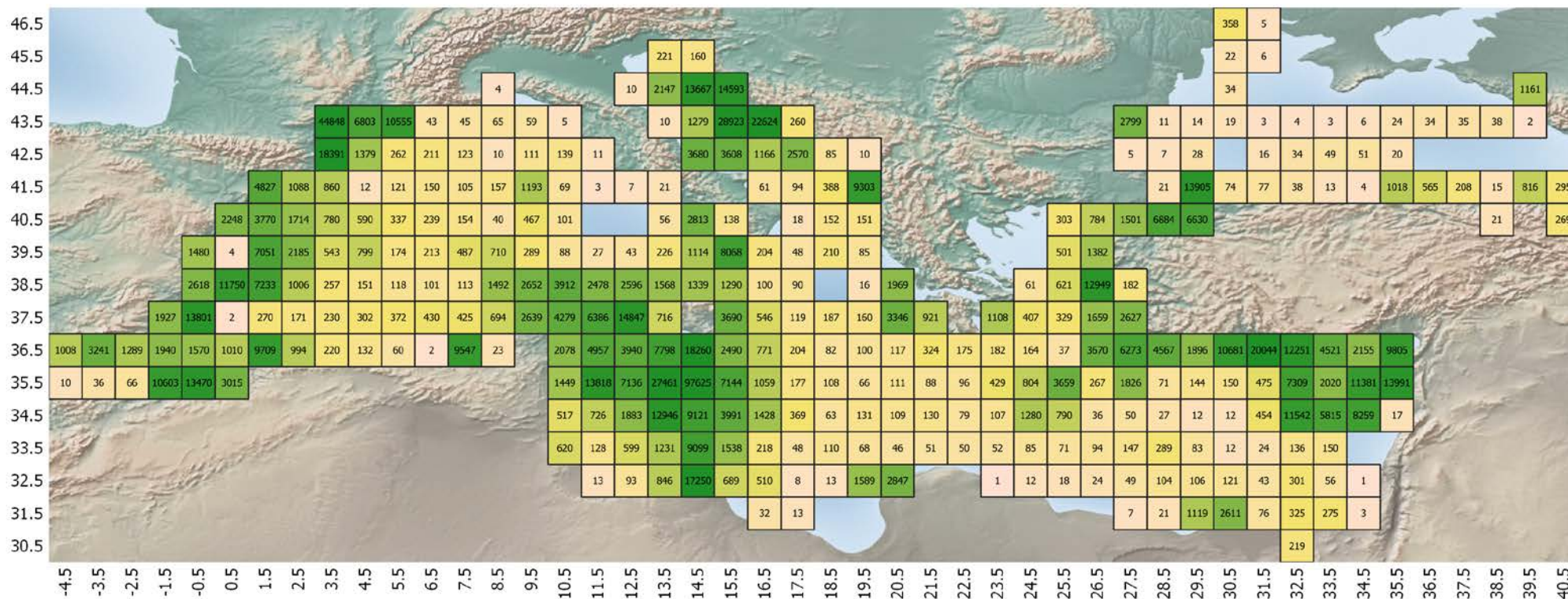
2019 COM

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

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

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

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



## APPENDIX 1 / Appendice 1 / Apéndice 1

**Appendix 1.** Standard SCRS catalogues on statistics (Task-I and Task-II) of the 13 major ICCAT species (10 tuna & tuna like species and 3 shark species) by stock, major fishery (flag/gear combinations ranked by order of importance) and year (1989 to 2018). Only the most important fisheries (representing  $\pm 97.5\%$  of Task-I total catch) are shown. For each data series, Task I (DSet= "t1", in t) is visualised against its equivalent Task II availability (DSet= "t2") scheme. The Task-II colour scheme, has a concatenation of characters ("a"= T2CE exists; "b"= T2SZ exists; "c"= T2CS exists) that represents the Task-II data availability in the ICCAT-DB. See the legend for the colour scheme pattern definitions.

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

**Apéndice 1.** Catálogos estándar del SCRS sobre estadísticas (Tarea I y Tarea II) de las 13 especies principales de ICCAT (10 especies de túnidos y especies afines y 3 especies de tiburones) por stock, pesquería principal (combinaciones arte/pabellón clasificadas por orden de importancia) y año (1989 a 2018). Solo se muestran las pesquerías más importantes (que representan  $\pm 97,5\%$  de la captura total de Tarea I). Cada serie de datos de Tarea I (DSet= "t1", en t) se visualiza con respecto a su esquema equivalente de disponibilidad de Tarea II (DSet= "t2"). En el esquema de colores de Tarea II, se incluye una concatenación de caracteres ("a"= T2CE existe; "b"= T2SZ existe; "c"= T2CS existe) que representa la disponibilidad de datos de Tarea II en la base de datos de ICCAT. Véase la leyenda para las definiciones del patrón del esquema de colores.

**Table # Fishery**

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

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

| character | represents |
|-----------|------------|
| a         | T2CE       |
| b         | T2SZ       |
| c         | T2CS (*)   |

(\*) Only 6 species require T2CS data: ALB, BFT, BET, YFT, SKJ, SWO

| color scheme        |             |
|---------------------|-------------|
| Concatenated string | represents  |
| -1                  | no T2 data  |
| a                   | t2ce only   |
| b                   | t2sz only   |
| c                   | t2cs only   |
| bc                  | t2sz + t2cs |
| ab                  | t2ce + t2sz |
| ac                  | t2ce + t2cs |
| abc                 | all         |

Table 1. ALB-N stock

|         |       |        |                            | T1 Total | 32071 | 36881 | 27931 | 30851 | 38135 | 35163 | 38377 | 28803 | 29023 | 25746 | 34551 | 33124 | 26253 | 22741 | 25567 | 25960 | 35318 | 36989 | 21991 | 20483 | 15375 | 19509 | 20039 | 25680 | 24633 | 26655 | 25551 | 30340 | 28401 | 29366 |       |      |       |       |      |     |
|---------|-------|--------|----------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-----|
| Species | Stock | Status | FlagName                   | GearGrp  | DSet  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Rank | %     | %cum  |      |     |
| ALB     | ATN   | CP     | EU.España                  | BB       | t1    | 14918 | 15442 | 8267  | 10814 | 12277 | 11041 | 9953  | 9640  | 9401  | 7346  | 8448  | 10774 | 4929  | 4712  | 7325  | 7893  | 10067 | 14182 | 8375  | 7403  | 4940  | 5841  | 4676  | 7753  | 4473  | 4740  | 8353  | 13394 | 9687  | 10836 | 1    | 31.5% | 31%   |      |     |
| ALB     | ATN   | CP     | EU.España                  | BB       | t2    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | ac    | 5833  | 5864  | 6651  | 5596  | 3559  | 4163  | 4806 | 2     | 23.0% | 54%  |     |
| ALB     | ATN   | CP     | EU.España                  | TR       | t1    | 10479 | 10342 | 8955  | 7347  | 6094  | 5952  | 10225 | 6649  | 7864  | 5834  | 6829  | 5013  | 4245  | 3976  | 5193  | 7477  | 10165 | 10277 | 6089  | 5233  | 4437  | 7009  | 3564  | 5833  | 5864  | 6651  | 5596  | 3559  | 4163  | 4806  | 2    | 23.0% | 54%   |      |     |
| ALB     | ATN   | CP     | EU.España                  | TR       | t2    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | ac    | 5833  | 5864  | 6651  | 5596  | 3559  | 4163  | 4806 | 2     | 23.0% | 54%  |     |
| ALB     | ATN   | CP     | EU.France                  | TW       | t1    | 2240  | 1032  | 463   | 2459  | 1706  | 1967  | 2904  | 2570  | 2874  | 1178  | 4723  | 3466  | 4740  | 4275  | 3252  | 2194  | 6743  | 5878  | 2842  | 2806  | 773   | 1216  | 3249  | 3126  | 4327  | 6699  | 3379  | 3961  | 4118  | 5718  | 3    | 11.4% | 66%   |      |     |
| ALB     | ATN   | CP     | EU.France                  | TW       | t2    | abc   | abc   | abc   | ab    | a     | b     | ac    | ac    | ac    | a     | ac    | ac    | ac    | ac    | ac    | ac    | abc   | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | a     | 3379  | 3961  | 4118  | 5718  | 3    | 11.4% | 66%   |      |     |
| ALB     | ATN   | NCC    | Chinese Taipei             | LL       | t1    | 1294  | 1651  | 4318  | 2209  | 6300  | 6409  | 3977  | 3905  | 3330  | 3098  | 5785  | 5299  | 4399  | 4330  | 4557  | 4278  | 2540  | 2357  | 1297  | 1107  | 863   | 1587  | 1367  | 1180  | 2394  | 947   | 2857  | 3134  | 2385  | 2926  | 4    | 10.8% | 77%   |      |     |
| ALB     | ATN   | NCC    | Chinese Taipei             | LL       | t2    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | ab    | abc   | abc   | ab    | abc   | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | 4     | 10.8% | 77%  |     |
| ALB     | ATN   | CP     | EU.Portugal                | BB       | t1    | 166   | 3182  | 700   | 1622  | 3369  | 926   | 6458  | 1622  | 393   | 76    | 281   | 255   | 1137  | 1913  | 516   | 224   | 391   | 21    | 80    | 517   | 54    | 179   | 855   | 1063  | 502   | 2601  | 912   | 1061  | 2509  | 494   | 5    | 4.0%  | 81%   |      |     |
| ALB     | ATN   | CP     | EU.Portugal                | BB       | t2    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | abc   | ab    | abc   | abc   | abc   | a     | abc   | abc   | abc   | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab   | 5     | 4.0%  | 81%  |     |
| ALB     | ATN   | CP     | EU.France                  | GN       | t1    | 1450  | 2268  | 3660  | 4465  | 4587  | 3967  | 2400  | 2048  | 1717  | 2393  | 1723  | 1864  | 1150  | 13    |       |       |       |       |       |       |       | 2     | 1     | 21    |       | 7     | 3     | 0     | 0     | 6     | 4.0% | 85%   |       |      |     |
| ALB     | ATN   | CP     | EU.France                  | GN       | t2    | abc   | abc   | abc   | ab    | ab    | ab    | ac    | ac    | ac    | a     | ac    | ac    | ac    | a     |       |       |       |       |       |       |       | -1    | -1    |       | -1    |       | -1    | -1    | a     | 0     | -1   | 6     | 4.0%  | 85%  |     |
| ALB     | ATN   | CP     | EU.Ireland                 | TW       | t1    |       |       |       |       |       |       |       |       |       | 57    | 319   | 80    | 634   | 1100  | 594   | 172   | 258   | 505   | 586   | 1514  | 1997  | 785   | 3595  | 3551  | 2231  | 2485  | 2390  | 2337  | 2492  | 3102  | 7    | 3.6%  | 88%   |      |     |
| ALB     | ATN   | CP     | EU.Ireland                 | TW       | t2    |       |       |       |       |       |       |       |       |       | -1    | b     | a     | a     | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | b     | 7    | 3.6%  | 88%   |      |     |
| ALB     | ATN   | CP     | EU.Ireland                 | GN       | t1    |       |       |       |       |       |       |       |       |       | 57    | 319   | 80    | 634   | 1100  | 594   | 172   | 258   | 505   | 586   | 1514  | 1997  | 785   | 3595  | 3551  | 2231  | 2485  | 2390  | 2337  | 2492  | 3102  | 7    | 3.6%  | 88%   |      |     |
| ALB     | ATN   | CP     | EU.Ireland                 | GN       | t2    |       |       |       |       |       |       |       |       |       | -1    | b     | a     | a     | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | b     | 7    | 3.6%  | 88%   |      |     |
| ALB     | ATN   | CP     | Japan                      | LL       | t1    | 764   | 737   | 691   | 466   | 485   | 505   | 386   | 466   | 414   | 446   | 425   | 688   | 1126  | 711   | 680   | 893   | 1336  | 781   | 288   | 402   | 288   | 525   | 336   | 400   | 1745  | 267   | 276   | 297   | 366   | 196   | 9    | 2.0%  | 93%   |      |     |
| ALB     | ATN   | CP     | Japan                      | LL       | t2    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | 9     | 2.0%  | 93%  |     |
| ALB     | ATN   | CP     | St. Vincent and Grenadines | LL       | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 10   | 0.9%  | 94%   |      |     |
| ALB     | ATN   | CP     | St. Vincent and Grenadines | LL       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 10   | 0.9%  | 94%   |      |     |
| ALB     | ATN   | CP     | U.S.A.                     | RR       | t1    | 133   | 175   | 251   | 103   | 224   | 324   | 23    | 309   | 335   | 601   | 90    | 251   | 122   | 323   | 334   | 500   | 356   | 284   | 394   | 125   | 23    | 150   | 171   | 145   | 340   | 137   | 121   | 43    | 28    | 9     | 11   | 0.8%  | 94%   |      |     |
| ALB     | ATN   | CP     | U.S.A.                     | RR       | t2    | a     | ab    | ab    | ab    | ab    | ab    | ab    | b     | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | 11    | 0.8%  | 94%  |     |
| ALB     | ATN   | CP     | U.S.A.                     | LL       | t1    | 61    | 148   | 201   | 116   | 192   | 230   | 373   | 123   | 184   | 179   | 192   | 146   | 191   | 146   | 106   | 120   | 108   | 103   | 127   | 127   | 158   | 160   | 240   | 261   | 255   | 309   | 229   | 203   | 209   | 93    | 12   | 0.6%  | 95%   |      |     |
| ALB     | ATN   | CP     | U.S.A.                     | LL       | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | 12    | 0.6%  | 95%  |     |
| ALB     | ATN   | CP     | Venezuela                  | LL       | t1    | 29    | 93    | 75    | 51    | 18    | 0     | 0     | 52    | 49    | 16    | 36    | 106   | 35    | 67    | 135   | 116   | 111   | 155   | 146   | 138   | 290   | 242   | 247   | 292   | 274   | 437   | 560   | 587   | 601   | 13    | 0.6% | 96%   |       |      |     |
| ALB     | ATN   | CP     | Venezuela                  | LL       | t2    | b     | b     | b     | ab    | ab    | ab    | ab    | b     | ab    | ab    | ab    | b     | b     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | a     | a     | a     | a     | 13   | 0.6%  | 96%   |      |     |
| ALB     | ATN   | CP     | Venezuela                  | PS       | t1    | 12    | 1     | 221   | 139   | 228   | 278   | 278   | 263   | 26    | 91    | 55    | 191   | 260   | 93    | 211   | 341   | 63    | 162   | 198   | 70    | 84    | 16    | 21    |       | 27    |       |       |       | 2     | 14    | 0.4% | 96%   |       |      |     |
| ALB     | ATN   | CP     | Venezuela                  | PS       | t2    | ab    | a     | b     | ab    | ab    | ab    | b     | a     | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | 14   | 0.4%  | 96%   |      |     |
| ALB     | ATN   | CP     | EU.España                  | LL       | t1    | 27    | 8     | 11    | 13    | 8     | 5     | 19    | 35    | 30    | 105   | 86    | 214   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 15   | 0.3%  | 96%   |      |     |
| ALB     | ATN   | CP     | EU.España                  | LL       | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | 15    | 0.3%  | 96%  |     |
| ALB     | ATN   | CP     | Belize                     | LL       | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 16   | 0.3%  | 97%   |      |     |
| ALB     | ATN   | CP     | Belize                     | LL       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 16    | 0.3%  | 97%  |     |
| ALB     | ATN   | CP     | Vanuatu                    | LL       | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 17    | 0.3%  | 97%  |     |
| ALB     | ATN   | CP     | Vanuatu                    | LL       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       | 17    | 0.3% | 97% |

Table 2. ALB-S stock

|         |       | T1 Total |                            | 27212   | 28714 | 26016 | 36562 | 32813 | 35300 | 27552 | 28426 | 28022 | 30595 | 27656 | 31387 | 38796 | 31746 | 28005 | 22545 | 18916 | 24453 | 20283 | 18867 | 22265 | 19225 | 24129 | 25282 | 19457 | 13702 | 15199 | 14336 | 13825 | 17098 |      |      |      |       |      |      |      |     |
|---------|-------|----------|----------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|------|-----|
| Species | Stock | Status   | FlagName                   | GearGrp | Dset  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 | 2018 | Rank | %     | %cum |      |      |     |
| ALB     | ATS   | NCC      | Chinese Taipei             | LL      | t1    | 18386 | 20442 | 19883 | 23063 | 19400 | 22573 | 18351 | 18956 | 18165 | 16106 | 17377 | 17221 | 15833 | 17321 | 17351 | 13288 | 10730 | 12293 | 13146 | 9966  | 8678  | 10975 | 13032 | 12813 | 8519  | 6675  | 7157  | 8907  | 9090 | 9277 | 1    | 58.1% | 58%  |      |      |     |
| ALB     | ATS   | NCC      | Chinese Taipei             | LL      | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | 2    |       |      |      |      |     |
| ALB     | ATS   | CP       | South Africa               | BB      | t1    | 6834  | 5220  | 3355  | 6306  | 6845  | 6842  | 5204  | 5425  | 6581  | 8401  | 5010  | 3463  | 6715  | 6057  | 3323  | 4153  | 2856  | 3365  | 2024  | 2334  | 2967  | 2446  | 2029  | 3466  | 3395  | 3620  | 3898  | 2001  | 1640 | 2353 | 2    | 17.1% | 75%  |      |      |     |
| ALB     | ATS   | CP       | South Africa               | BB      | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | b     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | a    | a    | 3    | 5.9%  | 81%  |      |      |     |
| ALB     | ATS   | CP       | Namibia                    | BB      | t1    |       |       |       |       |       | 915   | 950   | 982   | 1192  | 1422  | 1072  | 2240  | 2969  | 2858  | 2432  | 3079  | 2031  | 2426  | 1058  | 1856  | 4936  | 1263  | 3711  | 2275  | 838   | 1016  | 1008  | 893   | 205  | 874  | 3    |       |      |      |      |     |
| ALB     | ATS   | CP       | Namibia                    | BB      | t2    |       |       |       |       |       | abc   | abc   |       | -1    | -1    | -1    | abc   | c     | ab    | ac    |       | -1    | abc   | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | ab    | abc   | abc  | abc  | 4    | 4.9%  | 86%  |      |      |     |
| ALB     | ATS   | CP       | Brazil                     | LL      | t1    | 433   | 485   | 1095  | 2710  | 3600  |       | 835   | 723   | 807   | 589   | 3013  | 1478  | 3758  | 6240  | 2865  | 1844  | 285   | 359   | 267   | 222   | 233   | 150   | 207   | 920   | 824   | 778   | 326   | 431   | 494  | 383  | 311  | 4     |      |      |      |     |
| ALB     | ATS   | CP       | Brazil                     | LL      | t2    | a     | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | a     | a     | a     | a    | ab   | 5    | 3.6%  | 90%  |      |      |     |
| ALB     | ATS   | CP       | Japan                      | LL      | t1    | 450   | 587   | 654   | 583   | 467   | 651   | 389   | 435   | 424   | 418   | 601   | 554   | 341   | 231   | 322   | 509   | 312   | 316   | 238   | 1370  | 921   | 973   | 1194  | 2903  | 3106  | 1131  | 1752  | 1096  | 1189 | 2985 | 5    |       |      |      |      |     |
| ALB     | ATS   | CP       | Japan                      | LL      | t2    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | ab   | ab   | 6    | 1.3%  | 91%  |      |      |     |
| ALB     | ATS   | CP       | South Africa               | RR      | t1    | 56    | 60    | 55    | 54    | 36    | 89    |       |       |       |       |       |       | 73    | 58    | 377   | 323   | 82    | 201   | 288   | 324   | 1696  | 1028  | 1855  | a     | 1529  | 1268  |       |       |      | 7    |      |       |      |      |      |     |
| ALB     | ATS   | CP       | South Africa               | RR      | t2    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | 8    | 1.0% | 93%   |      |      |      |     |
| ALB     | ATS   | CP       | EU.España                  | LL      | t1    |       | 0     | 1     | 127   | 135   | 149   | 202   | 180   | 190   | 20    | 871   | 282   | 573   | 829   | 183   | 81    | 261   | 358   | 758   | 908   | 997   | 266   | 250   | 235   | 369   | b     | b     | b     | b    | 259  | 301  | 7     | 1.3% | 92%  |      |     |
| ALB     | ATS   | CP       | EU.España                  | LL      | t2    | ab    | ab    | ab    | ab    |       | -1    | ab    | ab    | ab    | ab    |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | 8    |       |      |      |      |     |
| ALB     | ATS   | CP       | St. Vincent and Grenadines | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       | 2116  | 4292  | 44    |       |       |       |       | 65    | 160   | 71    | 51    | 31    | 94    | 92    | 97    | 110   | 100   | 107  | 101  | 98   | 8     | 1.0% | 93%  |      |     |
| ALB     | ATS   | CP       | St. Vincent and Grenadines | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 9    |      |       |      |      |      |     |
| ALB     | ATS   | CP       | Brazil                     | BB      | t1    |       | 2     | 29    | 18    |       |       | 13    | 392   | 200   | 12    | 63    | 405   | 394   | 627   | 619   | 363   | 803   | 235   | 197   | 85    | 293   | 156   | 18    | 34    | 198   | 1190  | 979   | 129   | 60   | 55   | 0    | 1     | 9    | 1.0% | 94%  |     |
| ALB     | ATS   | CP       | Brazil                     | BB      | t2    | a     | a     | a     | a     |       |       | a     |       | -1    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | ab    | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | 10   | 0.9%  | 95%  |      |      |     |
| ALB     | ATS   | CP       | EU.Portugal                | BB      | t1    | 557   | 732   | 81    | 184   | 483   | 1185  | 655   | 494   | 256   | 124   | 232   | 486   | 40    | 433   | 415   | 9     |       |       |       |       |       |       |       |       |       |       |       |       |      |      | 10   |       |      |      |      |     |
| ALB     | ATS   | CP       | EU.Portugal                | BB      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | 10   |       |      |      |      |     |
| ALB     | ATS   | CP       | Namibia                    | LL      | t1    |       |       |       |       |       | 196   |       |       |       |       | 7     | 90    | 178   | 450   | 105   | 721   | 250   | 313   | 2674  | 138   | a     | 102   | 0     | 57    | 80    | 145   | 10    | 41    | 54   | 101  | 8    | 14    | 11   | 0.8% | 96%  |     |
| ALB     | ATS   | CP       | Namibia                    | LL      | t2    |       |       |       |       |       | a     |       |       |       | 7     | -1    | a     |       | -1    | ab    | ac    | -1    | ab    | ab    | ab    | ab    | a     | ab    | ab    | a     | ab    | a     | a     | a    | bc   | 11   |       |      |      |      |     |
| ALB     | ATS   | CP       | EU.España                  | PS      | t1    |       |       |       |       | 279   | 1816  | 648   | 682   | 255   | 4     | 66    | 173   | 156   | 7     | 193   |       |       | 24    | 9     |       | 25    | 64    | 28    | 64    | 116   |       | 3     | 64    |      | 88   | 2    | 12    | 0.6% | 97%  |      |     |
| ALB     | ATS   | CP       | EU.España                  | PS      | t2    | b     | b     | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | b     | ac    | ac    |       | abc  | a    | 12   |       |      |      |      |     |
| ALB     | ATS   | CP       | EU.France                  | PS      | t1    |       |       |       |       | 50    | 449   | 564   | 129   | 82    | 190   | 38    | 40    | 13    | 23    | 11    | 18    | 63    | 16    | 478   | 347   | 12    | 50    | 60    | 109   | 53    | 161   | 73    | 38    | 53   | 17   | 79   | 16    | 13   | 0.4% | 97%  |     |
| ALB     | ATS   | CP       | EU.France                  | PS      | t2    | a     | a     | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | ac    | ac    | abc  | a    | 13   |       |      |      |      |     |
| ALB     | ATS   | CP       | Vanuatu                    | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0     | 684   | 1400  | 96    | 131   | 64    | 104   | 85    | 35    | 83    | 91    |       |      |      | 14   | 0.4%  | 97%  |      |      |     |
| ALB     | ATS   | CP       | Vanuatu                    | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | a     | a     | a     | a     | -1    | a     | a     | ab    | ab    | a     | a     | a     | a    | 14   |      |       |      |      |      |     |
| ALB     | ATS   | CP       | Belize                     | LL      | t1    |       |       |       |       |       |       | 2     |       |       |       |       | 8     |       | 2     |       |       |       |       |       | 54    | 32    | 31    | 213   | 303   | 335   | 171   | 87    | 98    |      |      | 15   | 0.3%  | 98%  |      |      |     |
| ALB     | ATS   | CP       | Belize                     | LL      | t2    |       |       |       |       |       | a     | a     | a     | a     | a     |       |       | -1    | a     |       |       |       |       |       | a     | a     | ab    | ab    | ab    | a     | a     | a     | a     | a    | 15   |      |       |      |      |      |     |
| ALB     | ATS   | CP       | South Africa               | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       | 11    | 18    | 89    | 144   | 127   | 64    | 52    |       |       | 46    | 78    | 107   | 125   | 83    | 82    | 86    | 115   | 99   | 132  | 65   | 145   | 220  | 16   | 0.3% | 98% |
| ALB     | ATS   | CP       | South Africa               | LL      | t2    | -1    |       |       |       |       |       |       |       |       |       |       | a     | ab    | ab    | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | 16   |       |      |      |      |     |

Table 3. ALB-M stock

[illegible]

Table 4. BFT-E stock (ATE region)

|         |       |        |                | T1 Total | 5451 | 6313 | 6543 | 7396 | 9317 | 7054 | 9780 | 12098 | 16379 | 11630 | 10247 | 10061 | 10086 | 10347 | 7394 | 7402 | 9023 | 7529 | 8441 | 8243 | 6684 | 4379 | 3984 | 3834 | 4163 | 3918 | 4841 | 5968 | 7216 | 8157 |      |      |       |       |     |
|---------|-------|--------|----------------|----------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----|
| Species | Stock | Status | FlagName       | GearGrp  | DSet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum  |     |
| BFT     | ATE   | CP     | Japan          | LL       | t1   | 838  | 1464 | 2981 | 3350 | 2484 | 2075 | 3971  | 3341  | 2905  | 3195  | 2690  | 2895  | 2425  | 2536 | 2695 | 2015 | 2598 | 1896 | 1612 | 2351 | 1904 | 1155 | 1089 | 1093 | 1129 | 1134 | 1386 | 1578 | 1911 | 2270 | 1    | 27.6% | 28%   |     |
| BFT     | ATE   | CP     | Japan          | LL       | t2   | abc  | abc  | abc  | abc  | abc  | abc  | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 1    |       |       |     |
| BFT     | ATE   | CP     | EU.España      | BB       | t1   | 2378 | 1614 | 1200 | 1046 | 3718 | 1999 | 2878  | 4979  | 6634  | 2605  | 1278  | 1939  | 2319  | 2478 | 1278 | 1847 | 2207 | 1190 | 2307 | 2326 | 1197 | 641  | 562  | 197  | 163  | 92   | 130  | 983  | 1109 | 617  | 2    | 23.1% | 51%   |     |
| BFT     | ATE   | CP     | EU.España      | BB       | t2   | abc  | abc  | abc  | abc  | abc  | abc  | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | ac   | 784  | ac   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 2    |       |       |     |
| BFT     | ATE   | CP     | EU.España      | TP       | t1   | 1174 | 2181 | 1040 | 1271 | 1244 | 1136 | 941   | 1207  | 2723  | 1926  | 3106  | 1416  | 1240  | 1548 | 784  | ac   | 862  | 880  | 1126 | 1348 | 1194 | 1209 | 887  | 902  | 1106 | 1370 | 1173 | 1466 | 968  | 1299 | 1764 | 3     | 17.3% | 68% |
| BFT     | ATE   | CP     | EU.España      | TP       | t2   | c    | ac   | ac   | ab   | ab   | ac   | ab    | ab    | ab    | 2723  | 1926  | ac    | ab    | 1416 | 1240 | 1548 | c    | ac   | abc  | b    | a    | abc  | abc  | abc  | ab   | abc  | abc  | abc  | abc  | bc   | 3    |       |       |     |
| BFT     | ATE   | CP     | Maroc          | TP       | t1   | 318  | 323  | 482  | 94   | 387  | 494  | 210   | 699   | 1240  | 1615  | 852   | 1540  | 2330  | 1670 | 1305 | 1098 | 1518 | 1744 | 2417 | 1947 | 1909 | 1348 | 1055 | 990  | 960  | 959  | 1176 | 1433 | 1703 | 2164 | 4    | 15.4% | 84%   |     |
| BFT     | ATE   | CP     | Maroc          | TP       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | -1    | a     | a     | -1   | -1   | -1   | -1   | bc   | abc  | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 315  | 4    |       |       |     |
| BFT     | ATE   | CP     | EU.France      | TW       | t1   | 22   | 101  | 70   | 441  | 436  | 224  | 400   |       | 57    | 259   | 247   | 394   | 456   | 599  | 518  | 289  | 423  | 829  | 501  | 180  | 295  | 122  | 28   | 36   | 120  | 118  | 166  | 211  | 228  | 315  | 5    | 3.5%  | 87%   |     |
| BFT     | ATE   | CP     | EU.France      | TW       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1    |       | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1   | abc  | abc  | ab   | ab   | abc  | abc  | ab   | ab   | b    | ab   | a    | 5    |       |       |     |
| BFT     | ATE   | CP     | Maroc          | PS       | t1   | 147  | 54   | 46   | 462  | 24   | 213  | 458   | 323   | 828   | 692   | 709   | 660   | 150   | 884  | 490  | 855  | 871  | 179  |      |      |      |      |      |      |      |      |      |      |      | 6    | 3.4% | 90%   |       |     |
| BFT     | ATE   | CP     | Maroc          | PS       | t2   | -1   | b    | b    |      | -1   | -1   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 6    |      |       |       |     |
| BFT     | ATE   | CP     | EU.France      | BB       | t1   | 306  | 367  | 448  | 372  | 164  | 66   | 181   | 310   | 134   | 282   | 270   | 91    | 105   | 150  | 130  | 47   | 69   | 65   | 128  | 67   | 62   | 83   | 74   | 85   | 74   | 2    | 42   | 99   | 77   | 71   | 7    | 1.9%  | 92%   |     |
| BFT     | ATE   | CP     | EU.France      | BB       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | ab   | ab   | b    | ab   | a    | a    | 7    |       |       |     |
| BFT     | ATE   | CP     | EU.Portugal    | LL       | t1   | 0    | 14   | 98   | 124  | 89   | 143  | 134   | 97    | 246   | 18    | 404   | 398   | 383   | 160  | 33   | 1    | 66   | 72   | 6    | 12   | 5    |      | 8    | 0    |      | 0    | 9    | 13   | 112  | 8    | 1.1% | 93%   |       |     |
| BFT     | ATE   | CP     | EU.Portugal    | LL       | t2   | -1   | -1   | a    | a    |      | -1   | a     |       | -1    | -1    | a     | a     | a     | a    | a    | ab   | a    | a    | a    | a    | a    | a    |      | a    | a    |      | b    | ab   | ab   | ab   | 8    |       |       |     |
| BFT     | ATE   | CP     | EU.Portugal    | TP       | t1   |      |      |      |      |      |      | 1     | 15    | 19    | 45    | 2     | 40    | 15    | 17   | 27   | 18   | 9    | 25   | 23   | 24   | 46   | 57   | 180  | 215  | 233  | 243  | 263  | 315  | 361  | 330  | 9    | 1.1%  | 95%   |     |
| BFT     | ATE   | CP     | EU.Portugal    | TP       | t2   |      |      |      |      |      |      | b     | abc   | ac    | ac    | ab    | ab    | ab    | ab   | b    | b    | b    | b    | b    | b    | b    | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 9    |       |       |     |
| BFT     | ATE   | NCC    | Chinese Taipei | LL       | t1   | 109  |      |      |      | 6    | 20   | 4     | 61    | 226   | 350   | 222   | 144   | 304   | 158  |      |      |      | 10   | 4    |      |      |      |      |      |      |      |      |      |      |      | 10   | 0.7%  | 95%   |     |
| BFT     | ATE   | NCC    | Chinese Taipei | LL       | t2   | a    |      |      |      | -1   | -1   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   |      |      |      | ab   | ab   |      |      |      |      |      |      |      |      |      |      |      | 10   |       |       |     |
| BFT     | ATE   | CP     | EU.France      | GN       | t1   | 31   | 42   | 47   | 74   | 497  | 21   | 144   | 253   | 3     | 72    | 71    | 57    | 68    | 6    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 11   | 0.6%  | 96%   |     |
| BFT     | ATE   | CP     | EU.France      | GN       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 11   |       |       |     |
| BFT     | ATE   | CP     | China PR       | LL       | t1   |      |      |      |      |      |      |       |       |       | 85    | 103   | 80    | 68    | 39   | 19   | 41   | 24   | 42   | 72   | 119  | 42   | 38   | 36   | 36   | 38   | 37   | 45   | 54   | 64   | 79   | 12   | 0.5%  | 96%   |     |
| BFT     | ATE   | CP     | China PR       | LL       | t2   |      |      |      |      |      |      |       |       |       | -1    | a     | a     | a     | a    | a    | a    | a    | ab   | a    | a    | a    | ab   | a    | a    | abc  | ab   | abc  | abc  | abc  | 12   |      |       |       |     |
| BFT     | ATE   | CP     | EU.Portugal    | BB       | t1   | 1    | 12   | 5    | 4    | 2    | 219  | 34    | 80    | 447   | 252   | 5     | 2     | 2     | 7    | 1    | 8    | 6    | 7    | 1    |      |      |      |      |      |      |      | 3    | 8    | 4    | 13   | 0.5% | 97%   |       |     |
| BFT     | ATE   | CP     | EU.Portugal    | BB       | t2   | ab   | a    |      | -1   | a    | ab   | ab    | ab    | ab    | ab    | a     | a     | a     | a    | ab   | abc  | ab   | a    | a    |      |      | a    |      |      |      |      | abc  | a    | ab   | 13   |      |       |       |     |
| BFT     | ATE   | CP     | EU.España      | HL       | t1   |      |      |      |      |      |      |       |       |       | 162   | 28    | 33    | 126   | 61   | 63   | 109  | 87   | 11   | 4    | 10   | 6    | 2    | 21   | 19   | 25   | 21   | 16   | 59   | 35   | 101  | 107  | 14    | 0.5%  | 97% |
| BFT     | ATE   | CP     | EU.España      | HL       | t2   |      |      |      |      |      |      | ab    | ac    | ac    | ab    | ac    | ac    | c     | c    | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 14   |       |       |     |
| BFT     | ATE   | CP     | Korea Rep.     | LL       | t1   |      |      |      |      | 4    | 205  | 92    | 203   |       |       |       | 6     | 1     |      | 0    | 3    |      | 1    |      |      |      |      |      |      |      |      | 161  | 181  | 208  | 15   | 0.5% | 98%   |       |     |
| BFT     | ATE   | CP     | Korea Rep.     | LL       | t2   |      |      |      |      | -1   | -1   | a     | a     |       |       | a     | a     |       | a    | a    |      |      | -1   |      |      |      |      |      |      |      |      | abc  | abc  | abc  | 15   |      |       |       |     |

Table 5. BFT-E stock (MED region)

|         |       |        |                |         | T1 Total | 15710 | 17286 | 19846 | 24435 | 24941 | 39715 | 37523 | 39399 | 34831 | 38370 | 39753 | 39939 | 39914 | 39653 | 42606 | 42598 | 40977 | 42471 | 52559 | 16217 | 13133 | 6959 | 5790 | 7100 | 9080 | 9343 | 11360 | 13163 | 16401 | 19600 |       |       |       |     |
|---------|-------|--------|----------------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-----|
| Species | Stock | Status | FlagName       | GearGrp | Dset     | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010 | 2011 | 2012 | 2013 | 2014 | 2015  | 2016  | 2017  | 2018  | Rank  | %     | %cum  |     |
| BFT     | MED   | NCO    | NEI (inflated) | PS      | t1       |       |       |       |       |       |       |       |       |       | 9471  | 16893 | 16458 | 15298 | 15880 | 18873 | 18376 | 14164 | 18343 | 28234 |       |       |      |      |      |      |      |       |       |       | 1     | 21.5% | 21%   |       |     |
| BFT     | MED   | NCO    | NEI (inflated) | PS      | t2       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | 1     |       |       |     |
| BFT     | MED   | CP     | EU.France      | PS      | t1       | 4404  | 4663  | 4570  | 7346  | 6965  | 11803 | 9494  | 8547  | 7701  | 6800  | 5907  | 6780  | 6119  | 5810  | 5549  | 6339  | 8328  | 7438  | 9543  |       | 2536  | 2918 | 1546 | 678  | 678  | 1940 | 1944  | 2299  | 2763  | 3320  | 3930  | 2     | 19.8% | 41% |
| BFT     | MED   | CP     | EU.France      | PS      | t2       | abc   | bc    | bc    | bc    | b     | b     | b     | b     | b     | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | ab    | abc   | abc   | abc   | abc  | ab   | ab   | abc  | abc  | b     | ab    | ac    | a     | a     | 2     |       |     |
| BFT     | MED   | CP     | EU.Italy       | PS      | t1       | 3195  | 2651  | 2652  | 3846  | 4162  | 4654  | 3613  | 7060  | 7068  | 3334  | 1859  | 2801  | 3256  | 3246  | 3849  | 3752  | 3961  | 4006  | 4311  | 1854  | 2339  | 2    | 752  | 1374 | 1474 | 1539 | 1678  | 2050  | 2409  | 2885  | 3     | 11.4% | 53%   |     |
| BFT     | MED   | CP     | EU.Italy       | PS      | t2       | b     | -1    | -1    | -1    | -1    | -1    | ac    | -1    | -1    | b     | b     | b     | b     | b     | b     | b     | b     | a     | ab    | abc   | bc    | -1   | abc  | -1   | b    | b    | b     | -1    | -1    | -1    | -1    | 3     |       |     |
| BFT     | MED   | CP     | Turkey         | PS      | t1       | 1707  | 2059  | 2459  | 2817  | 3084  | 3466  | 4219  | 4616  | 5093  | 5899  | 1200  | 1070  | 2100  | 2300  | 3300  | 1075  | 990   | 806   | 918   | 879   | 665   | 409  | 528  | 536  | 551  | 544  | 1091  | 1324  | 1515  | 1273  | 4     | 7.3%  | 60%   |     |
| BFT     | MED   | CP     | Turkey         | PS      | t2       | b     | -1    | -1    | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | ab    | ab    | ab    | ab    | ab   | ab   | ab   | ab   | ab   | ab    | ab    | ab    | a     | a     | 4     |       |     |
| BFT     | MED   | CP     | Tunisie        | PS      | t1       | 94    | 114   | 1073  | 975   | 1997  | 2523  | 1617  | 2147  | 1992  | 1662  | 2263  | 2134  | 2432  | 2510  | 740   | 2266  | 3245  | 2542  | 427   | 2679  | 1932  | 1042 | 852  | 1017 | 1057 | 1057 | 1248  | 1461  | 1755  | 2092  | 5     | 6.1%  | 66%   |     |
| BFT     | MED   | CP     | Tunisie        | PS      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | a     | -1    | -1    | -1    | a     | bc    | abc   | ab   | ab   | ab   | abc  | ab   | b     | abc   | ab    | abc   | 5     |       |       |     |
| BFT     | MED   | CP     | EU.España      | PS      | t1       | 300   | 635   | 807   | 1366  | 1431  | 1725  | 2896  | 1657  | 1172  | 1573  | 1504  | 1676  | 1453  | 1686  | 1886  | 1778  | 2242  | 2013  | 1649  | 1645  | 1167  | 804  | 877  | 1034 | 917  | 1122 | 1169  | 952   | 1523  | 2433  | 6     | 5.4%  | 72%   |     |
| BFT     | MED   | CP     | EU.España      | PS      | t2       | b     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | bc    | ab    | ab    | ab   | ab   | ab   | ab   | ab   | ab    | ab    | ab    | -1    | -1    | 6     |       |     |
| BFT     | MED   | CP     | EU.Croatia     | PS      | t1       |       |       |       | 1418  | 1076  | 1058  | 1410  | 1220  | 1360  | 1088  | 889   | 921   | 914   | 890   | 975   | 1137  | 827   | 1017  | 1022  | 817   | 821   | 609  | 370  | 366  | 367  | 380  | 378   | 438   | 436   | 587   | 679   | 7     | 2.9%  | 74% |
| BFT     | MED   | CP     | EU.Croatia     | PS      | t2       |       |       |       | a     | a     | a     | a     | a     | a     | -1    | -1    | -1    | -1    | -1    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | a    | a    | ab   | abc   | abc   | abc   | ab    | 7     |       |       |     |
| BFT     | MED   | CP     | Libya          | PS      | t1       | 129   | 177   | 300   | 568   | 470   | 495   | 598   | 32    | 230   | 195   | 503   |       |       | 200   | 512   | 872   | 730   | 1140  | 1200  | 1267  | 1047  | 645  |      |      | 763  | 933  | 933   | 1153  | 1368  | 1631  | 1792  | 8     | 2.5%  | 77% |
| BFT     | MED   | CP     | Libya          | PS      | t2       | -1    | -1    | -1    | b     | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     |       | -1    | -1    | -1    | -1    | a     | -1    | -1    | -1   | -1   | ab   | ab   | b    | ab    | ab    | -1    | -1    | 8     |       |       |     |
| BFT     | MED   | CP     | Algerie        | PS      | t1       | 574   | 547   | 560   | 773   | 768   | 1092  |       |       |       | 900   | 1056  | 778   | 917   | 922   | 640   | 753   | 623   | 850   | 650   | 972   |       |      |      | 69   | 244  | 244  | 370   | 448   | 1038  | 1300  | 9     | 2.1%  | 79%   |     |
| BFT     | MED   | CP     | Algerie        | PS      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | ab   | abc  | abc  | ab    | ab    | b     | b     | -1    | 9     |       |     |
| BFT     | MED   | CP     | EU.Italy       | LL      | t1       | 144   | 79    | 102   | 78    | 135   | 1018  | 2103  | 2100  | 1620  | 674   | 515   | 287   | 260   | 395   | 475   | 302   | 310   | 286   | 217   | 216   | 193   | 521  | 670  | 256  | 180  | 115  | 312   | 434   | 411   | 528   | 10    | 1.9%  | 81%   |     |
| BFT     | MED   | CP     | EU.Italy       | LL      | t2       | -1    | -1    | a     | a     | b     | a     | b     | b     | b     | -1    | ab    | bc    | -1    | ab    | -1    | b     | b     | b     | ab    | ab    | ab    | ab   | ab   | ab   | ab   | ab   | ab    | ab    | bc    | bc    | 10    |       |       |     |
| BFT     | MED   | CP     | EU.España      | LL      | t1       | 260   | 149   | 277   | 371   | 187   | 245   | 435   | 416   | 871   | 253   | 418   | 493   | 644   | 436   | 583   | 529   | 484   | 668   | 745   | 804   | 590   | 240  | 58   | 26   | 24   | 34   | 57    | 490   | 126   | 232   | 11    | 1.4%  | 82%   |     |
| BFT     | MED   | CP     | EU.España      | LL      | t2       | ac    | abc   | ab    | ab    | ab    | abc   | abc   | ab    | ab    | ac    | ac    | ac    | ac    | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc  | abc  | abc  | abc  | abc   | abc   | abc   | abc   | abc   | 11    |       |     |
| BFT     | MED   | CP     | Libya          | LL      | t1       | 173   | 164   | 372   | 67    | 802   | 865   | 656   | 925   | 920   | 900   | 1002  | 1867  | 331   | 170   | 393   | 318   | 187   | 158   | 51    | 34    |       |      |      |      |      |      |       |       |       |       | 12    | 1.3%  | 84%   |     |
| BFT     | MED   | CP     | Libya          | LL      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | a    | a    | b    | b     | b     | 12    |       |       |       |       |     |
| BFT     | MED   | CP     | EU.Greece      | HL      | t1       | 105   | 124   | 98    | 348   | 339   | 766   | 915   | 784   | 1127  | 279   | 233   | 597   | 341   | 394   | 245   | 73    |       |       | 6     | 7     | 93    | 66   | 135  | 52   | 39   | 35   | 78    | 90    | 34    | 45    | 69    | 13    | 0.9%  | 85% |
| BFT     | MED   | CP     | EU.Greece      | HL      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | a    | a    | a    | a     | a     | a     | -1    | 14    |       |       |     |
| BFT     | MED   | CP     | Japan          | LL      | t1       | 127   | 172   | 85    | 123   | 793   | 536   | 813   | 765   | 185   | 361   | 381   | 136   | 152   | 390   | 316   | 638   |       | 378   | 556   | 466   | 80    | 18   |      |      |      |      |       |       |       |       | 14    | 0.9%  | 86%   |     |
| BFT     | MED   | CP     | Japan          | LL      | t2       | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | abc   | ac    | ac    | ac    | ac    | ac    | ac    | abc   | ac    | abc   | a     | abc   | bc   |      |      |      |      |       |       |       |       | 15    |       |       |     |
| BFT     | MED   | CP     | Panama         | LL      | t1       | 74    | 287   | 484   | 467   | 1499  | 1498  | 2850  | 236   |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |       |       |       |       | 15    | 0.9%  | 86%   |     |
| BFT     | MED   | CP     | Panama         | LL      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | 16    |       |       |     |
| BFT     | MED   | CP     | Algerie        | LL      | t2       |       |       |       |       |       |       |       |       |       | 482   | 672   | 175   | 179   | 801   | 503   | 806   | 706   | 501   | 712   | 748   | 754   | 339  |      |      |      |      |       |       |       |       | 16    | 0.9%  | 87%   |     |
| BFT     | MED   | CP     | Algerie        | LL      | t2       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | b     | b     | b     | b     | -1    | -1    | ab    | ab    | ab   | b    |      |      |      |       |       |       |       | 17    |       |       |     |
| BFT     | MED   | CP     | Maroc          | HL      | t1       |       |       |       |       |       | 373   | 816   | 541   | 455   | 634   | 600   | 650   | 195   | 407   | 570   | 597   | 80    | 187   | 19    |       | 2     |      |      | 78   | 120  | 130  | 134   | 138   | 140   | 185   | 265   | 17    | 0.9%  | 88% |
| BFT     | MED   | CP     | Maroc          | HL      | t2       |       |       |       |       |       | -1    | c     | -1    | -1    | -1    | -1    | abc   | abc   | abc   | b     | b     | b     | b     | b     | b     | b     |      |      | abc  | abc  | abc  | abc   | ab    | abc   | abc   | 18    |       |       |     |
| BFT     | MED   | CP     | EU.Italy       | TP      | t1       | 301   | 285   | 263   | 364   | 249   | 201   | 255   | 491   | 225   | 419   | 308   | 353   | 427   | 364   | 145   | 119   | 69    | 125   | 93    | 149   | 144   | 281  | 165  | 125  | 222  | 231  | 192   |       | 272   | 300   | 18    | 0.9%  | 89%   |     |
| BFT     | MED   | CP     | EU.Italy       | TP      | t2       | -1    | -1    | -1    | c     | bc    | bc    | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | b     | ab    | ab   | ab   | ab   | abc  | abc  | -1    | -1    | -1    | -1    | -1    | 19    |       |     |
| BFT     | MED   | CP     | EU.Malta       | LL      | t1       | 29    | 81    | 105   | 80    | 251   | 572   | 587   | 399   | 393   | 407   | 447   | 376   | 219   | 240   | 255   | 264   | 321   | 263   | 144   | 165   | 263   | 136  | 92   | 137  | 89   | 91   | 49    | 97    | 115   | 127   | 19    | 0.8%  | 90%   |     |
| BFT     | MED   | CP     | EU.Malta       | LL      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | ac    | ac    | ac    | ac    | -1    | -1    | -1    | abc   | bc    | ab    | ab   | ab   | ab   | abc  | abc  | abc   | abc   | abc   | abc   | 20    | 0.8%  | 91%   |     |
| BFT     | MED   | NCO    | NEI (combined) | PS      | t1       | 19    | 49    | 49    |       | 773   | 211   |       |       | 101   | 1030  | 1995  | 109   | 571   | 508   | 610   | 709   |       |       |       |       |       |      |      |      |      |      |       |       |       |       | 20    |       |       |     |
| BFT     | MED   | NCO    | NEI (combined) | PS      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | 21    |       |       |     |
| BFT     | MED   | CP     | EU.Italy       | RR      | t1       | 111   | 332   | 364   | 336   | 470   | 775   | 766   | 277   | 235   | 9     | 245   | 217   | 229   | 340   | 284   | 284   | 283   | 157   |       |       | 17    | 58   | 165  | 66   | 8    | 10   | 10    | 11    |       | 15    | 18    | 21    | 0.8%  | 92% |
| BFT     | MED   | CP     | EU.Italy       | RR      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | 22    |       |       |     |
| BFT     | MED   | CP     | EU.France      | LL      | t1       |       |       |       |       |       | 60    | 580   | 500   | 300   | 246   |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |       |       |       |       | 22    |       |       |     |
| BFT     | MED   | CP     | EU.France      | LL      | t2       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | -1   | -1    | -1    | -1    | -1    | 23    |       |       |     |
| BFT     | MED   | CP     | EU.Italy       | HL      | t1       | 369   | 714   | 197   | 189   | 152   | 179   | 226   | 205   | 301   | 5     | 340   | 171   | 184   | 283   | 229   | 241   | 229   | 133   | 16    | 12    | 14    | 93   | 130  | 25   | 51   | 50   | 79    |       |       | 128   | 23    | 0.6%  | 93%   |     |
| BFT     | MED   | CP     | EU.Italy       | HL      | t2       | -1    | -1    | b     | b     | -1    | b     | b     | -1    | -1    | b     | b     | b     | b     | b     | b     | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1</ |      |       |       |       |       |       |       |       |     |



Table 6. BFT-W stock

|         |       |        |                    | T1 Total | 2766 | 2782 | 2929 | 2296 | 2384 | 2113 | 2448 | 2512 | 2334 | 2657 | 2772 | 2775 | 2784 | 3319 | 2305 | 2125 | 1756 | 1811 | 1638 | 2000 | 1980 | 1857 | 2007 | 1754 | 1482 | 1627 | 1842 | 1901 | 1850 | 2027 |      |      |       |      |     |
|---------|-------|--------|--------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-----|
| Species | Stock | Status | FlagName           | GearGrp  | Dset | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum |     |
| BFT     | ATW   | CP     | U.S.A.             | RR       | t1   | 557  | 752  | 696  | 324  | 540  | 462  | 844  | 840  | 931  | 777  | 760  | 683  | 1244 | 1523 | 991  | 716  | 425  | 376  | 634  | 658  | 860  | 682  | 592  | 568  | 365  | 478  | 694  | 867  | 795  | 880  | 1    | 32.2% | 32%  |     |
| BFT     | ATW   | CP     | U.S.A.             | RR       | t2   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | bc   | abc  | abc  | abc  | abc  | abc  | ab   | ab   | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 2    | 18.5% | 51%  |     |
| BFT     | ATW   | CP     | Japan              | LL       | t1   | 468  | 550  | 688  | 512  | 581  | 427  | 387  | 436  | 330  | 691  | 365  | 492  | 506  | 575  | 57   | 470  | 265  | 376  | 277  | 492  | 162  | 353  | 578  | 289  | 317  | 302  | 347  | 345  | 346  | 407  | 2    |       |      |     |
| BFT     | ATW   | CP     | Japan              | LL       | t2   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 3    | 13.6% | 64%  |     |
| BFT     | ATW   | CP     | Canada             | RR       | t1   |      | 28   | 32   | 30   | 88   | 71   | 195  | 155  | 245  | 303  | 348  | 433  | 402  | 508  | 407  | 421  | 497  | 629  | 389  | 475  | 390  | 324  | 295  | 347  | 325  | 331  | 389  | 323  | 344  | 382  | 3    |       |      |     |
| BFT     | ATW   | CP     | Canada             | RR       | t2   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | bc   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 4     | 9.7% | 74% |
| BFT     | ATW   | CP     | U.S.A.             | LL       | t1   | 244  | 275  | 305  | 347  | 177  | 185  | 211  | 235  | 191  | 156  | 222  | 242  | 130  | 224  | 299  | 275  | 211  | 205  | 173  | 233  | 335  | 239  | 241  | 295  | 208  | 222  | 89   | 105  | 115  | 103  | 4    |       |      |     |
| BFT     | ATW   | CP     | U.S.A.             | LL       | t2   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | b    | ab   | ab   | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 5    | 6.7%  | 81%  |     |
| BFT     | ATW   | CP     | U.S.A.             | PS       | t1   | 385  | 384  | 237  | 300  | 295  | 301  | 249  | 245  | 250  | 249  | 248  | 275  | 196  | 208  | 265  | 32   | 178  | 4    | 28   |      |      | 11   |      | 2    | 43   | 42   | 39   |      |      |      | 5    |       |      |     |
| BFT     | ATW   | CP     | U.S.A.             | PS       | t2   | bc   | bc   | bc   | bc   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | ab   | ab   | b    | b    | c    | bc   |      |      | bc   |      | bc   | bc   | bc   | bc   | bc   | bc   | 6    | 6.0% | 87%   |      |     |
| BFT     | ATW   | CP     | Canada             | TL       | t1   | 579  | 404  | 447  | 403  | 284  | 203  | 262  | 298  | 138  | 172  | 125  | 81   | 79   | 39   | 42   | 49   | 44   | 35   | 23   | 24   | 37   | 40   | 30   | 34   | 52   | 40   | 35   | 15   | 23   | 3    | 6    |       |      |     |
| BFT     | ATW   | CP     | Canada             | TL       | t2   | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 7     | 3.6% | 90% |
| BFT     | ATW   | CP     | U.S.A.             | HP       | t1   | 187  | 129  | 129  | 105  | 88   | 68   | 77   | 96   | 98   | 133  | 116  | 184  | 102  | 55   | 88   | 41   | 32   | 30   | 23   | 30   | 66   | 29   | 70   | 52   | 45   | 68   | 77   | 53   | 82   | 44   | 7    |       |      |     |
| BFT     | ATW   | CP     | U.S.A.             | HP       | t2   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | b    | b    | b    | b    | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | 8    | 2.5%  | 93%  |     |
| BFT     | ATW   | CP     | U.S.A.             | HL       | t1   | 227  | 210  | 341  | 218  | 224  | 228  | 66   | 33   | 17   | 29   | 15   | 3    | 9    | 4    |      | 1    | 2    | 0    |      |      | 1    | 0    | 3    | 1    | 1    | 0    |      |      | 1    | 5    | 1    | 8     |      |     |
| BFT     | ATW   | CP     | U.S.A.             | HL       | t2   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | b    | b    | b    | b    | c    |      |      | c    | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | bc   | 9    | 2.0%  | 95%  |     |
| BFT     | ATW   | CP     | Canada             | LL       | t1   | 53   | 4    | 6    | 9    | 25   | 5    | 4    | 22   | 12   | 32   | 31   | 47   | 20   | 53   | 28   | 43   | 36   | 48   | 58   | 30   | 64   | 89   | 112  | 65   | 67   | 61   | 74   | 85   | 74   | 91   | 9    |       |      |     |
| BFT     | ATW   | CP     | Canada             | LL       | t2   | b    | ab   | a    | a    | a    | ab   | ab   | ab   | ab   | ab   | abc  | abc  | bc   | abc  | abc  | abc  | abc  | bc   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 10    | 1.2% | 96% |
| BFT     | ATW   | CP     | Canada             | TP       | t1   | 1    | 2    |      | 1    | 29   | 79   | 72   | 90   | 59   | 68   | 44   | 16   | 16   | 28   | 84   | 32   | 8    | 3    | 4    | 23   | 23   | 39   | 26   | 17   | 11   | 20   | 6    | 10   | 13   | 3    | 10   |       |      |     |
| BFT     | ATW   | CP     | Canada             | TP       | t2   | b    | ab   |      | ab   | ab   | ab   | ab   | ab   | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 11    | 1.1% | 97% |
| BFT     | ATW   | NCO    | NEI (Flag related) | LL       | t1   |      |      |      |      |      |      |      |      |      |      | 429  | 270  | 49   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 11   |      |       |      |     |
| BFT     | ATW   | NCO    | NEI (Flag related) | LL       | t2   |      |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 11   |      |       |      |     |
| BFT     | ATW   | CP     | Canada             | HP       | t1   |      |      |      |      | 33   | 34   | 43   | 32   | 55   | 36   | 38   | 18   | 20   | 13   | 10   | 7    | 14   | 20   | 17   | 24   | 18   | 37   | 30   | 31   | 25   | 11   | 26   | 25   | 17   | 30   | 12   | 1.0%  | 98%  |     |
| BFT     | ATW   | CP     | Canada             | HP       | t2   |      |      |      |      | ab   | ab   | ab   | ab   | ab   | ab   | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | abc  | 12    |      |     |
| BFT     | ATW   | CP     | Mexico             | LL       | t1   | 7    | 2    | 9    | 15   | 17   | 4    | 23   | 19   | 2    | 8    | 14   | 29   | 10   | 12   | 22   | 9    | 10   | 14   | 7    | 7    | 10   | 14   | 14   | 52   | 23   | 51   | 53   | 55   | 34   | 80   | 13   | 0.9%  | 99%  |     |
| BFT     | ATW   | CP     | Mexico             | LL       | t2   | -1   | -1   | -1   | -1   | -1   | ab   | b    | ab   | ab   | ab   | ab   | ab   | bc   | b    | ab   | ab   | ab   | ab   | abc  | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | abc  | abc  | 13    |      |     |

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

|         |       |        |                    |         | T1 Total | 78722 | 85264 | 97197 | 100117 | 113861 | 134933 | 128148 | 120803 | 110280 | 107994 | 121541 | 103510 | 91051 | 75658 | 87487 | 89981 | 67956 | 59192 | 69998 | 63172 | 76426 | 76041 | 76606 | 71457 | 66954 | 75019 | 79524 | 79109 | 78585 | 73397 |       |       |      |     |
|---------|-------|--------|--------------------|---------|----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| Species | Stock | Status | FlagName           | GearGrp | Dset     | 1989  | 1990  | 1991  | 1992   | 1993   | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Rank  | %     | %cum |     |
| BET     | A+M   | CP     | Japan              | LL      | t1       | 39419 | 35024 | 29488 | 34128  | 35053  | 38503  | 35477  | 33171  | 26490  | 24330  | 21833  | 24605  | 18087 | 15306 | 19572 | 18509 | 15735 | 17993 | 16684 | 16395 | 15205 | 12306 | 15390 | 13397 | 13603 | 12390 | 10365 | 10994 | 9881  | 1     | 24.2% | 24%   |      |     |
| BET     | A+M   | CP     | Japan              | LL      | t2       | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 1     |       |      |     |
| BET     | A+M   | NCC    | Chinese Taipei     | LL      | t1       | 940   | 5744  | 13850 | 11546  | 13426  | 19680  | 18023  | 21850  | 19242  | 16314  | 16837  | 16795  | 16429 | 18483 | 21563 | 17717 | 11984 | 2965  | 12116 | 10418 | 13252 | 13189 | 13732 | 10819 | 10316 | 13272 | 16453 | 13115 | 11845 | 11630 | 2     | 15.5% | 40%  |     |
| BET     | A+M   | NCC    | Chinese Taipei     | LL      | t2       | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | 2     |       |      |     |
| BET     | A+M   | CP     | EU España          | PS      | t1       | 5091  | 6302  | 9395  | 9362   | 12495  | 12700  | 9971   | 8970   | 6240   | 4863   | 5508   | 6901   | 5923  | 7038  | 6595  | 4187  | 3155  | 3416  | 3359  | 5456  | 8019  | 7910  | 8050  | 7485  | 6849  | 6464  | 5574  | 6808  | 6064  | 4925  | 3     | 7.7%  | 47%  |     |
| BET     | A+M   | CP     | EU España          | PS      | t2       | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 3     |      |     |
| BET     | A+M   | NCO    | NEI (Flag related) | LL      | t1       | 4650  | 5856  | 8982  | 6146   | 4378   | 8964   | 10697  | 11862  | 16565  | 23484  | 22190  | 15092  | 7907  | 383   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     | 5.5%  | 53%  |     |
| BET     | A+M   | NCO    | NEI (Flag related) | LL      | t2       | -1    | -1    | -1    | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 4     |       |      |     |
| BET     | A+M   | CP     | EU España          | BB      | t1       | 2761  | 3814  | 5484  | 5518   | 4901   | 9848   | 8073   | 6248   | 6260   | 2165   | 8563   | 4084   | 3897  | 3164  | 4158  | 3838  | 4417  | 3783  | 3007  | 1959  |       | 2819  | 4506  | 2913  | 2389  | 3463  | 3508  | 3835  | 4811  | 2991  | 5     | 4.9%  | 58%  |     |
| BET     | A+M   | CP     | EU España          | BB      | t2       | abc   | abc   | ac    | ac     | ac     | ac     | ac     | ac     | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 5     |      |     |
| BET     | A+M   | CP     | EU Portugal        | BB      | t1       | 5279  | 6159  | 5598  | 5639   | 5493   | 3036   | 9629   | 5810   | 5437   | 6334   | 3314   | 1498   | 1605  | 2420  | 1572  | 3161  | 3721  | 4626  | 4872  | 2738  | 5121  | 2872  | 6470  | 5986  | 5240  | 3737  | 3012  | 1677  | 2698  | 3870  | 6     | 4.8%  | 63%  |     |
| BET     | A+M   | CP     | EU Portugal        | BB      | t2       | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | 6     |      |     |
| BET     | A+M   | CP     | EU France          | PS      | t1       | 1502  | 2636  | 3971  | 5682   | 11733  | 11046  | 7076   | 7128   | 4671   | 4149   | 4056   | 4620   | 3584  | 3668  | 3628  | 2736  | 2135  | 2481  | 1157  | 1039  | 2193  | 3294  | 3663  | 3766  | 3253  | 3528  | 2531  | 4184  | 3629  | 3882  | 7     | 4.6%  | 67%  |     |
| BET     | A+M   | CP     | EU France          | PS      | t2       | ab    | ab    | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     | a     | 7     |      |     |
| BET     | A+M   | CP     | China PR           | LL      | t1       |       |       |       |        | 70     | 428    | 476    | 520    | 427    | 1503   | 7347   | 6564   | 7210  | 5840  | 7890  | 6555  | 6200  | 7200  | 7399  | 5686  | 4973  | 5489  | 3720  | 3231  | 2371  | 2232  | 4942  | 5852  | 5514  | 4823  | 8     | 4.3%  | 72%  |     |
| BET     | A+M   | CP     | China PR           | LL      | t2       |       |       |       |        | -1     | b      | b      | b      |        |        | a      | ab     | ab    | a     | ab    | ab    | ab    | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | 8     |       |      |     |
| BET     | A+M   | CP     | Ghana              | PS      | t1       |       |       |       |        |        |        |        | 1328   | 2970   | 3138   | 6648   | 3468   | 5621  | 5606  | 5330  | 6201  | 5444  | 2136  | 2369  | 2868  | 3558  | 5370  | 3030  | 4111  | 2503  | 3373  | 5336  | 4856  | 3524  | 3085  | 9     | 3.5%  | 75%  |     |
| BET     | A+M   | CP     | Ghana              | PS      | t2       |       |       |       |        |        |        |        | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     | a     | 9     |      |     |
| BET     | A+M   | CP     | Ghana              | BB      | t1       | 2158  | 5031  | 4090  | 2866   | 3577   | 4738   | 5517   | 3423   | 7204   | 7509   | 5056   | 2164   | 4242  | 873   | 3731  | 11687 | 3416  | 171   | 190   | 504   | 957   | 883   | 511   | 358   | 460   | 802   | 582   | 338   | 314   | 486   | 10    | 3.2%  | 78%  |     |
| BET     | A+M   | CP     | Ghana              | BB      | t2       | abc   | ac    | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     | a     | 10    |      |     |
| BET     | A+M   | CP     | Panama             | PS      | t1       | 85    | 717   | 1013  | 2517   | 4113   | 5378   | 4304   | 1934   | 431    | 175    | 319    | 378    | 89    | 63    |       |       | 1521  | 2461  | 2521  | 3057  | 2360  | 2490  | 3085  | 3531  | 1736  | 2853  | 2341  | 1289  | 2022  | 1559  | 1664  | 11    | 2.1% | 80% |
| BET     | A+M   | CP     | Panama             | PS      | t2       | b     | b     | ab    | a      | ab     | ab     | ab     | ab     | ab     | ab     | a      | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ac    | ac    | 11    |      |     |
| BET     | A+M   | CP     | Curacao            | PS      | t1       |       |       |       |        |        |        |        | 1893   | 2890   | 2919   | 3428   | 2359   | 2803  | 1879  | 2758  | 3343  | 13    | 441   | 272   | 1734  | 2465  | 2747  | 3488  | 2950  | 1998  | 2357  | 2573  | 3598  | 2844  | 3530  | 12    | 2.1%  | 82%  |     |
| BET     | A+M   | CP     | Curacao            | PS      | t2       |       |       |       |        |        |        |        | ab     | ab     | ab     | a      | ab     | ab    | ab    | ab    | ab    | b     | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | ac    | 12    |       |      |     |
| BET     | A+M   | CP     | Panama             | LL      | t1       | 3157  | 5258  | 6320  | 7474   | 5998   | 7709   | 5623   | 2843   | 1667   | 1077   |        |        | 484   | 473   | 148   |       |       |       |       |       |       |       |       |       |       |       |       |       | 315   | 105   | 404   | 13    | 1.8% | 84% |
| BET     | A+M   | CP     | Panama             | LL      | t2       | -1    | -1    | -1    | a      | -1     | -1     | -1     | -1     | -1     | -1     |        | a      | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | 13    |      |     |
| BET     | A+M   | CP     | Brazil             | LL      | t1       | 512   | 591   | 350   | 790    | 1256   | 596    | 1935   | 1707   | 1237   | 644    |        | 2024   | 2762  | 2534  | 2582  | 2374  | 1453  | 1015  | 1423  | 927   | 785   | 1009  | 1055  | 1452  | 1165  | 1377  | 1966  | 2606  | 2322  | 2171  | 1595  | 14    | 1.7% | 86% |
| BET     | A+M   | CP     | Brazil             | LL      | t2       | ab    | ab    | ab    | ab     | ab     | ab     | ab     | a      | a      | a      | ab     | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | a     | a     | a     | ab    | ab    | 15    |      |     |
| BET     | A+M   | CP     | Korea Rep.         | LL      | t1       | 7896  | 2690  | 802   | 866    | 377    | 386    | 423    | 1250   | 796    | 163    | 124    | 43     | 1     | 87    | 143   | 629   | 770   | 2067  | 2136  | 2599  | 2134  | 2646  | 2762  | 1908  | 1151  | 1039  | 677   | 562   | 432   | 623   | 15    | 1.4%  | 87%  |     |
| BET     | A+M   | CP     | Korea Rep.         | LL      | t2       | ab    | ab    | ab    | ab     | a      | a      | a      | a      | a      | a      | a      | a      | a     | a     | a     | a     | a     | a     | a     | a     | a     | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 16    |       |      |     |
| BET     | A+M   | CP     | EU France          | BB      | t1       | 2040  | 2739  | 2258  | 1892   | 2018   | 2187   | 2000   | 2357   | 1746   | 1942   | 1998   | 1921   | 1593  | 786   | 758   | 587   | 597   | 571   | 261   | 141   | 269   | 156   | 238   | 175   | 25    | 74    | 51    | 135   | 127   | 171   | 16    | 1.2%  | 89%  |     |
| BET     | A+M   | CP     | EU France          | BB      | t2       | ab    | ab    | abc   | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     | a     | 17    |      |     |
| BET     | A+M   | CP     | Brazil             | HL      | t1       |       |       |       |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       | 3     | 7     | 0     | 69    | 22    | 210   | 555   | 2012  | 4332  | 4967  | 5336  | 5086  | 3401  | 17    | 1.0% | 90% |
| BET     | A+M   | CP     | Brazil             | HL      | t2       |       |       |       |        |        |        |        |        |        |        |        |        |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     | -1    | -1    | -1    | ab    | 18    |       |      |     |
| BET     | A+M   | CP     | Philippines        | LL      | t1       |       |       |       |        |        |        |        |        |        |        | 1154   | 2113   | 975   | 377   | 837   | 855   | 1854  | 1743  | 1880  | 1399  | 1267  | 532   | 1323  | 1964  |       |       |       |       |       | 17    | 0.9%  | 90%   |      |     |
| BET     | A+M   | CP     | Philippines        | LL      | t2       |       |       |       |        |        |        |        |        |        |        | a      | a      | a     | a     | -1    | -1    | a     | a     | a     | a     | a     | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 18    |       |       |      |     |
| BET     | A+M   | CP     | Cape Verde         | PS      | t1       |       |       |       |        |        |        |        |        |        |        |        |        |       |       |       |       | 1151  | 1433  | 1283  | 482   | 605   | 655   | 1076  | 734   | 1377  | 2361  | 2757  | 1679  | 1106  | 1416  | 19    | 0.7%  | 91%  |     |
| BET     | A+M   | CP     | Cape Verde         | PS      | t2       |       |       |       |        |        |        |        |        |        |        |        |        |       |       |       | b     | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | abc   | 19    |       |       |      |     |
| BET     | A+M   | CP     | U.S.A.             | LL      | t1       | 600   | 559   | 855   | 564    | 836    | 943    | 982    | 713    | 795    | 696    | 930    | 532    | 682   | 536   | 284   | 310   | 312   | 521   | 381   | 428   | 430   | 443   | 603   | 582   | 509   | 584   | 574   | 386   | 568   | 391   | 20    | 0.7%  | 92%  |     |
| BET     | A+M   | CP     | U.S.A.             | LL      | t2       | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | 20    |      |     |
| BET     | A+M   | CP     | Senegal            | BB      | t1       | 1     |       | 5     |        | 4      | 8      | 180    | 136    | 218    | 735    | 1372   | 915    | 1159  | 497   | 322   | 490   | 770   | 1318  | 1292  | 734   | 1143  | 954   | 455   | 432   | 599   | 359   | 501   | 577   | 287   | 159   | 21    | 0.6%  | 92%  |     |
| BET     | A+M   | CP     | Senegal            | BB      | t2       | ab    | b     | a     |        | a      | a      | a      | ac     | a      | a      | ab     | a      | ab    | ab    | ab    | ab    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | 21    |       |      |     |
| BET     | A+M   | CP     | Guatemala          | PS      | t1       |       |       |       |        |        |        |        |        |        |        |        |        |       |       |       | 736   | 831   | 1054  | 977   | 851   | 1024  | 922   | 1029  | 288   | 273   | 168   | 1007  | 340   | 1103  | 1602  | 1488  | 22    | 0.5% | 93% |
| BET     | A+M   | CP     | Guatemala          | PS      | t2       |       |       |       |        |        |        |        |        |        |        |        |        |       |       | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | ac    | 22    |      |     |
| BET     | A+M   | CP     | EU España          | LL      | t1       | 603   | 481   |       |        |        |        |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |     |

Table 8. YFT-E region

|         |       |        |                            | T1 Total |        |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       |       |      |       |      |     |      |     |
|---------|-------|--------|----------------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|------|-------|------|-----|------|-----|
|         |       |        |                            | 125544   | 160853 | 130626 | 126058 | 124702 | 125524 | 119404 | 116132 | 104978 | 113594 | 104947 | 96692 | 113123 | 105105 | 97598 | 88303 | 75569 | 77613 | 76264 | 93745 | 99131 | 97189 | 94678 | 91652 | 82848 | 88947 | 102182 | 114057 | 100041 | 104140 |       |       |      |       |      |     |      |     |
| Species | Stock | Status | FlagName                   | GearGrp  | Dset   | 1989   | 1990   | 1991   | 1992   | 1993   | 1994   | 1995   | 1996   | 1997   | 1998  | 1999   | 2000   | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013   | 2014   | 2015   | 2016   | 2017  | 2018  | Rank | %     | %cum |     |      |     |
| YFT     | ATE   | CP     | EU España                  | PS       | t1     | 60746  | 66565  | 51762  | 48952  | 40044  | 39734  | 37707  | 31866  | 23901  | 28282 | 19332  | 24764  | 30433 | 30343 | 23665 | 20454 | 11121 | 10607 | 12833 | 23557 | 32140 | 24191 | 18238 | 17898 | 11336  | 13463  | 19918  | 17802  | 10817 | 9932  | 1    | 25.8% | 26%  |     |      |     |
| YFT     | ATE   | CP     | EU España                  | PS       | t2     | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc   | abc   | 1    |       |      |     |      |     |
| YFT     | ATE   | CP     | EU France                  | PS       | t1     | 28827  | 42431  | 31199  | 31894  | 35031  | 34396  | 28877  | 32633  | 29737  | 31123 | 31010  | 30287  | 31871 | 31600 | 32344 | 23961 | 22319 | 18480 | 10934 | 15981 | 18748 | 20093 | 21772 | 18590 | 20390  | 20878  | 19239  | 25766  | 25611 | 24451 | 2    | 25.1% | 51%  |     |      |     |
| YFT     | ATE   | CP     | EU France                  | PS       | t2     | ab     | ab     | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc   | a     | 2    |       |      |     |      |     |
| YFT     | ATE   | CP     | Ghana                      | BB       | t1     | 6855   | 11808  | 9074   | 9223   | 13283  | 9984   | 9268   | 5640   | 9459   | 9139  | 11810  | 7451   | 11605 | 7426  | 6711  | 9943  | 6655  | 9173  | 10174 | 7325  | 6257  | 6301  | 6771  | 5774  | 4521   | 6049   | 6391   | 6761   | 5661  | 5624  | 3    | 7.7%  | 59%  |     |      |     |
| YFT     | ATE   | CP     | Ghana                      | BB       | t2     | abc    | ac     | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | ab     | ab     | ab    | a     | 3    |       |      |     |      |     |
| YFT     | ATE   | CP     | Ghana                      | PS       | t1     | 180    | 180    | 180    | 108    |        |        |        | 2542   | 5628   | 4710  | 9640   | 5222   | 12240 | 11120 | 9127  | 5502  | 6364  | 4865  | 5396  | 9197  | 9602  | 13951 | 11730 | 10697 | 9400   | 12890  | 13269  | 13457  | 14738 | 17536 | 4    | 7.0%  | 66%  |     |      |     |
| YFT     | ATE   | CP     | Ghana                      | PS       | t2     | -1     | -1     | -1     | -1     |        |        |        | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | ab     | ab     | ab     | a     | 4     |      |       |      |     |      |     |
| YFT     | ATE   | CP     | Panama                     | PS       | t1     | 3131   | 7207   | 6623   | 7041   | 7781   | 8548   | 10854  | 5759   | 3137   | 1753  | 775    | 1087   | 574   | 1022  |       | 1887  | 6325  | 8682  | 9539  | 6289  | 5911  | 5102  | 4459  | 5058  | 4062   | 4646   | 3202   | 4305   | 5073  | 4071  | 5    | 4.6%  | 70%  |     |      |     |
| YFT     | ATE   | CP     | Panama                     | PS       | t2     | b      | b      | ab     | a      | ab     | ab     | ab     | ab     | ab     | ab    | a      | ab     | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc   | ac    | 5    |       |      |     |      |     |
| YFT     | ATE   | CP     | Curacao                    | PS       | t1     |        |        |        |        |        |        |        | 3183   | 6082   | 6110  | 3962   | 5441   | 4793  | 4035  | 6185  | 4161  | 15    | 1964  | 1390  | 7367  | 6469  | 5397  | 4501  | 6906  | 3813   | 5230   | 6140   | 7905   | 6535  | 7543  | 6    | 3.7%  | 74%  |     |      |     |
| YFT     | ATE   | CP     | Curacao                    | PS       | t2     |        |        |        |        |        |        |        | ab     | ab     | ab    | a      | ab     | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc   | ac    | 6    |       |      |     |      |     |
| YFT     | ATE   | CP     | Japan                      | LL       | t1     | 3792   | 4185   | 3020   | 2124   | 2627   | 4194   | 4770   | 4246   | 2733   | 4092  | 2101   | 2286   | 1550  | 1534  | 1999  | 5066  | 3088  | 4206  | 8496  | 5266  | 3563  | 3041  | 3348  | 3637  | 3843   | 3358   | 2857   | 2914   | 2709  | 2953  | 7    | 3.3%  | 77%  |     |      |     |
| YFT     | ATE   | CP     | Japan                      | LL       | t2     | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | ab     | ab     | ab     | ab    | ab    | 7    |       |      |     |      |     |
| YFT     | ATE   | CP     | Cape Verde                 | PS       | t1     |        |        |        |        | a      |        |        |        |        |       |        | 0      | 6     | 12    | 884   | 246   | 356   | 5110  | 4443  | 3556  | 7295  | 3620  | 4954  | 5260  | 3469   | 6424   | 3591   | 6651   | 4933  | 1491  | 3926 | 8     | 2.1% | 79% |      |     |
| YFT     | ATE   | CP     | Cape Verde                 | PS       | t2     |        |        |        |        |        |        |        |        |        |       |        | a      | a     | a     | a     | a     | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | ab    | ab    | 8    |       |      |     |      |     |
| YFT     | ATE   | NCC    | Chinese Taipei             | LL       | t1     | 96     | 2244   | 2163   | 1554   | 1301   | 3851   | 2681   | 3985   | 2993   | 3643  | 3389   | 4014   | 2787  | 3363  | 4946  | 4145  | 2327  | 860   | 1707  | 807   | 1180  | 537   | 1463  | 819   | 1023   | 902    | 927    | 761    | 563   | 550   | 9    | 2.0%  | 81%  |     |      |     |
| YFT     | ATE   | NCC    | Chinese Taipei             | LL       | t2     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab    | ab     | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab    | ab    | 9    |       |      |     |      |     |
| YFT     | ATE   | CP     | Guatemala                  | PS       | t1     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       | 2207  | 1588  | 2963  | 5300  | 3478  | 3768  | 2612  | 3158   | 2811   | 2961   | 4036   | 3773  | 5200  | 2703 | 3647  | 2499 | 10  | 1.7% | 83% |
| YFT     | ATE   | CP     | Guatemala                  | PS       | t2     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab    | ab    | ac   | 10    |      |     |      |     |
| YFT     | ATE   | CP     | Belize                     | PS       | t1     |        |        |        |        |        |        |        |        |        |       | 963    |        |       | 321   | 406   |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 11    | 1.6% | 84%   |      |     |      |     |
| YFT     | ATE   | CP     | Belize                     | PS       | t2     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       |       | 11   |       |      |     |      |     |
| YFT     | ATE   | CP     | EU España                  | BB       | t1     | 1182   | 2384   | 2623   | 1758   | 1498   | 1767   | 1101   | 3069   | 996    | 3509  | 1311   | 601    | 504   | 917   | 1379  | 1292  | 798   | 928   | 769   | 1055  | 874   | 1561  | 3010  | 973   | 593    | 1043   | 1068   | 1393   | 1416  | 696   | 12   | 1.3%  | 86%  |     |      |     |
| YFT     | ATE   | CP     | EU España                  | BB       | t2     | abc    | abc    | ac     | ac     | ac     | ac     | ac     | ac     | ac     | ac    | ac     | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | ac     | abc    | abc    | abc   | 696   | 12   |       |      |     |      |     |
| YFT     | ATE   | CP     | Maroc                      | PS       | t1     | 2305   | 5306   | 1799   | 2653   | 2396   | 3017   | 2290   | 3430   | 1947   | 2276  | 2307   | 2441   | 3000  | 2032  | 1567  | 719   | 1757  | 127   |       |       |       |       |       |       |        |        |        |        |       | 13    | 1.3% | 87%   |      |     |      |     |
| YFT     | ATE   | CP     | Maroc                      | PS       | t2     | b      | b      | ab     | a      | ab     | ab     | ab     | ab     | ab     | ab    | ab     | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab    | ab    | 13   |       |      |     |      |     |
| YFT     | ATE   | CP     | Cape Verde                 | HL       | t1     | 1985   | 1634   | 1272   | 1202   | 1344   | 1560   | 1362   | 1289   | 1299   | 1145  | 1185   | 1388   | 1374  | 918   | 1617  | 1501  | 985   | 1218  | 1048  | 648   | 1121  | 1054  | 800   | 1164  | 1167   | 1167   | 1167   | 2057   | 1265  | 1572  | 14   | 1.2%  | 88%  |     |      |     |
| YFT     | ATE   | CP     | Cape Verde                 | HL       | t2     | b      | b      | b      | b      | ab     | ab     | ab     | ab     | ab     | ab    | ab     | ab     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab     | ab     | ab     | ab     | ab    | ab    | 14   |       |      |     |      |     |
| YFT     | ATE   | NCO    | NEI (Flag related)         | LL       | t1     | 280    | 1115   | 2310   | 1315   | 1157   | 2524   | 2975   | 3588   | 3368   | 5464  | 5182   | 3072   | 2019  | 43    | 466   |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 15    | 1.1% | 89%   |      |     |      |     |
| YFT     | ATE   | NCO    | NEI (Flag related)         | LL       | t2     | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1     | -1    | -1     | -1     | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1     | -1     | -1     | -1     | -1    | 15    |      |       |      |     |      |     |
| YFT     | ATE   | CP     | EU France                  | BB       | t1     | 2197   | 3671   | 4571   | 3103   | 2587   | 2533   | 1764   | 1658   | 887    | 319   | 1068   | 416    | 684   | 1444  | 757   | 585   | 596   | 588   | 430   | 186   | 378   | 360   | 609   | 258   | 29     | 322    | 340    | 432    | 283   | 171   | 16   | 1.1%  | 90%  |     |      |     |
| YFT     | ATE   | CP     | EU France                  | BB       | t2     | ab     | ab     | abc    | abc    | abc    | abc    | abc    | abc    | abc    | abc   | abc    | abc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc    | abc    | abc    | abc    | abc   | a     | 16   |       |      |     |      |     |
| YFT     | ATE   | CP     | St. Vincent and Grenadines | PS       | t1     |        | 510    | 4936   | 5391   | 2476   | 2142   | 2969   | 3017   | 3327   | 1916  | 1987   | 3640   |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 17    | 1.0% | 91%   |      |     |      |     |
| YFT     | ATE   | CP     | St. Vincent and Grenadines | PS       | t2     |        | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab     | ab    | ab     | ab     | ab    | b     | b     |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 17    |      |       |      |     |      |     |
| YFT     | ATE   | CP     | Russian Federation         | PS       | t1     |        | 3200   | 1862   | 2160   | 1503   | 2936   | 2696   | 4275   | 4931   | 4359  | 737    |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 18    | 0.9% | 92%   |      |     |      |     |
| YFT     | ATE   | CP     | Russian Federation         | PS       | t2     | -1     | b      | b      | -1     | b      | b      | b      | -1     | b      | b     | -1     | b      | -1    | -1    |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       |       | 18   |       |      |     |      |     |
| YFT     | ATE   | CP     | El Salvador                | PS       | t1     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 19    | 0.8% | 93%   |      |     |      |     |
| YFT     | ATE   | CP     | El Salvador                | PS       | t2     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 19    |      |       |      |     |      |     |
| YFT     | ATE   | CP     | Panama                     | LL       | t1     | 901    | 1498   | 1270   | 1297   | 3134   | 3422   | 2588   | 1954   | 1156   | 358   | 385    | 219    | 52    | 90    |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 20    | 0.6% | 94%   |      |     |      |     |
| YFT     | ATE   | CP     | Panama                     | LL       | t2     | -1     | -1     | -1     | a      |        | -1     | -1     | -1     | -1     | -1    | -1     | -1     | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1     | -1     | -1     | -1     | -1    | 20    |      |       |      |     |      |     |
| YFT     | ATE   | NCO    | Mixed flags (EU tropical)  | PS       | t1     | 259    | 230    | 998    | 571    | 744    | 688    | 876    | 254    | 452    | 291   | 216    | 423    | 42    | 13    | 298   | 570   | 292   | 251   | 416   | 464   | 467   | 857   | 1601  |       |        |        |        |        |       | 21    | 0.6% | 94%   |      |     |      |     |
| 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    | b     | b     | b     | b     | b      | b      | b      | -1     | -1    | -1    | 21   |       |      |     |      |     |
| YFT     | ATE   | CP     | Senegal                    | BB       | t1     | 191    | 89     | 52     |        | 9      | 1      | 94     | 77     | 152    | 248   | 663    | 194    | 279   | 558   | 253   | 576   | 1106  | 1347  | 1068  | 682   | 1024  | 895   | 1199  | 1839  | 1052   | 491    | 583    | 692    | 241   | 290   | 22   | 0.5%  | 95%  |     |      |     |
| YFT     | ATE   | CP     | Senegal                    | BB       | t2     | ab     | ab     | a      |        | a      | a      | a      | ac     | a      | a     | ab     | a      | ab    | a     | ab    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac     | ac     | ac     | ac     | ac    | 22    |      |       |      |     |      |     |
| YFT     | ATE   | CP     | Senegal                    | PS       | t1     | 69     | 3      |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 22    | 0.5% | 95%   |      |     |      |     |
| YFT     | ATE   | CP     | Senegal                    | PS       | t2     | a      | a      |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       | 23    |      |       |      |     |      |     |
| YFT     | ATE   | CP     | Senegal                    | PS       | t2     |        |        |        |        |        |        |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       |       |      |       |      |     |      |     |

Table 9. YFT-W region

|         |       |        | T1 Total                   |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       |      |      |     |  |
|---------|-------|--------|----------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|-----|--|
|         |       |        | 36921                      | 32731   | 36897 | 37712 | 38745 | 48215 | 35274 | 33056 | 32341 | 30919 | 31207 | 35623 | 40317 | 29665 | 24982 | 31255 | 29498 | 28272 | 24167 | 18123 | 18777 | 20855 | 18921 | 23285 | 23440 | 24468 | 26116 | 34817 | 35824 | 31427 |      |      |      |      |       |      |      |     |  |
| Species | Stock | Status | VegName                    | GearGrp | Dset  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 | 2017 | 2018 | Rank | %     | %cum |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | PS      | t1    | 11612 | 6533  | 11967 | 9693  | 12659 | 19587 | 6338  | 10777 | 11653 | 9157  | 6523  | 7572  | 13934 | 7961  | 4607  | 3185  | 2634  | 4439  | 2341  | 2067  | 1363  | 2722  | 2253  | 3291  | 3635  | 2581  | 1920  | 2367 | 3373 | 2553 | 1    | 20.9% | 21%  |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | PS      | t2    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 1    | 8.7%  | 30%  |      |     |  |
| YFT     | ATW   | CP     | U.S.A.                     | RR      | t1    | 1930  | 545   | 1418  | 957   | 1898  | 4523  | 4053  | 4032  | 3569  | 2927  | 3967  | 3862  | 4185  | 2887  | 5328  | 3759  | 3657  | 4908  | 2966  | 1033  | 1011  | 1231  | 1498  | 1727  | 687   | 1621  | 1660  | 2743 | 2904 | 1770 | 2    | 8.6%  | 38%  |      |     |  |
| YFT     | ATW   | CP     | U.S.A.                     | RR      | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 3    | 8.3%  | 38%  |      |     |  |
| YFT     | ATW   | CP     | U.S.A.                     | LL      | t1    | 6247  | 4474  | 4141  | 5337  | 3886  | 3246  | 3645  | 3320  | 3773  | 2949  | 3541  | 2901  | 2200  | 2573  | 2164  | 2492  | 1746  | 2010  | 2395  | 1394  | 1686  | 1218  | 1462  | 2270  | 1544  | 1446  | 1041  | 1300 | 1431 | 837  | 4    | 7.2%  | 54%  |      |     |  |
| YFT     | ATW   | CP     | U.S.A.                     | LL      | t2    | ab    | ab    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 4    | 7.0%  | 61%  |      |     |  |
| YFT     | ATW   | CP     | Brazil                     | HL      | t1    |       |       |       |       |       | 60    | 18    | 69    | 156   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      | 5    | 6.7% | 65%   |      |      |     |  |
| YFT     | ATW   | CP     | Brazil                     | HL      | t2    |       |       |       |       | b     | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 6    | 4.2%  | 70%  |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | BB      | t1    | 3458  | 3765  | 4190  | 3616  | 3296  | 4350  | 2684  | 2604  | 2632  | 4267  | 4152  | 3660  | 4296  | 3166  | 2475  | 2030  | 1631  | 1481  | 951   | 489   | 929   | 809   | 1068  | 788   | 673   | 395   | 428   | 771  | 500  | 566  | 7    | 3.3%  | 73%  |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | BB      | t2    | ab    | a     | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 8    | 3.2%  | 76%  |      |     |  |
| YFT     | ATW   | CP     | Brazil                     | LL      | t1    | 1157  | 805   | 669   | 1568  | 2044  | 1365  | 1378  | 734   | 849   | 1285  | 2930  | 2754  | 4954  | 3323  | 1941  | 4115  | 4987  | 2543  | 4093  | 2326  | 2906  | 2989  | 1954  | 2558  | 1141  | 1112  | 1206  | 2579 | 1118 | 842  | 9    | 3.1%  | 79%  |      |     |  |
| YFT     | ATW   | CP     | Brazil                     | LL      | t2    | a     | ab    | ab    | ab    | ab    | a     | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | a     | a     | a    | a    | a    | 10   | 3.0%  | 82%  |      |     |  |
| YFT     | ATW   | CP     | Brazil                     | BB      | t1    | 1376  | 953   | 1169  | 2660  | 3087  | 2744  | 2613  | 1956  | 1643  | 1229  | 1197  | 3093  | 1276  | 2843  | 1289  | 2838  | 2236  | 1214  | 1353  | 397   | 402   | 627   | 1243  | 511   | 928   | 118   | 315   | 445  | 366  | 376  | 11   | 2.9%  | 85%  |      |     |  |
| YFT     | ATW   | NCC    | Chinese Taipei             | LL      | t1    | 762   | 5221  | 2009  | 2974  | 2895  | 2809  | 2017  | 2668  | 1473  | 1685  | 1022  | 1647  | 2018  | 1296  | 1540  | 1679  | 1269  | 400   | 240   | 315   | 211   | 287   | 305   | 252   | 236   | 139   | 293   | 181  | 213  | 395  | 12   | 2.2%  | 87%  |      |     |  |
| YFT     | ATW   | NCC    | Chinese Taipei             | LL      | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 13   | 1.6%  | 89%  |      |     |  |
| YFT     | ATW   | CP     | Japan                      | LL      | t1    | 3178  | 1734  | 1698  | 1591  | 469   | 589   | 457   | 1004  | 806   | 1081  | 1304  | 1775  | 1141  | 571   | 755   | 1194  | 1159  | 437   | 541   | 986   | 1431  | 1539  | 1106  | 1024  | 734   | 465   | 612   | 462  | 415  | 147  | 14   | 1.4%  | 90%  |      |     |  |
| YFT     | ATW   | CP     | Japan                      | LL      | t2    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc  | abc  | 15   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | CP     | Mexico                     | LL      | t1    | 345   | 112   | 433   | 742   | 855   | 1093  | 1126  | 771   | 826   | 788   | 1283  | 1390  | 1084  | 1133  | 1313  | 1208  | 1050  | 943   | 896   | 961   | 1220  | 924   | 1183  | 1421  | 1006  | 1048  | 971   | 1282 | 1244 | 1033 | 16   | 0.5%  | 94%  |      |     |  |
| YFT     | ATW   | CP     | Mexico                     | LL      | t2    | -1    | -1    | -1    | -1    | ab    | abc   | ab    | ab    | ab    | a     | ab    | bc    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | 17   | 0.4%  | 96%  |      |     |  |
| YFT     | ATW   | CP     | St. Vincent and Grenadines | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       | 649   | 1956  | 1341  | 1151  | 543   | 4227  | 3430  | 2633  | 2972  | 2532  | 2230  | 819   | 927   | 551   | 325   | 481   | 124  | 434  | 642  | 307  | 18    | 0.6% | 92%  |     |  |
| YFT     | ATW   | CP     | St. Vincent and Grenadines | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | 19   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | NCO    | NEI (Flag related)         | LL      | t1    | 2500  | 2985  | 2008  | 2521  | 1514  | 1880  | 1227  | 2374  | 2732  | 2875  | 1578  | 2197  | 765   | 14    | 112   |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 20   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | NCO    | NEI (Flag related)         | LL      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | 21   | 0.5%  | 94%  |      |     |  |
| YFT     | ATW   | CP     | Panama                     | LL      | t1    | 1595  | 2651  | 2249  | 2297  |       |       |       |       |       |       |       | 5     | 20    | 28    |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 22   | 0.5%  | 94%  |      |     |  |
| YFT     | ATW   | CP     | Panama                     | LL      | t2    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 23   | 0.5%  | 95%  |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | LL      | t1    | 497   | 258   | 338   | 459   | 707   | 850   | 687   | 383   | 381   | 560   | 504   | 421   | 451   | 266   | 323   | 559   | 828   | 593   | 613   | 712   | 898   | 1249  | 1090  | 736   | 738   | 790   | 773   | 1060 | 1181 | 1005 | 24   | 0.4%  | 96%  |      |     |  |
| YFT     | ATW   | CP     | Venezuela                  | LL      | t2    | b     | b     | ab    | -1    | a     | a     | a     | a     | a     | ab    | ab    | a     | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | -1   | 25    |      |      |     |  |
| YFT     | ATW   | CP     | Trinidad and Tobago        | LL      | t1    | 10    | 303   | 540   |       | 4     | 120   | 79    | 183   | 223   | 213   | 163   | 112   | 122   | 125   | 186   | 224   | 295   | 459   | 615   | 520   | 629   | 788   | 798   | 930   | 1128  | 1141  | 1179  | 1057 | 889  | 1214 | 15   | 1.6%  | 89%  |      |     |  |
| YFT     | ATW   | CP     | Trinidad and Tobago        | LL      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | 16   | 1.4%  | 90%  |      |     |  |
| YFT     | ATW   | NCO    | Colombia                   | PS      | t1    |       |       |       |       | 2404  | 3418  | 7172  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 17   | 1.3%  | 92%  |      |     |  |
| YFT     | ATW   | NCO    | Colombia                   | PS      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | 18   | 0.6%  | 92%  |      |     |  |
| YFT     | ATW   | CP     | Grenada                    | LL      | t1    | 235   | 530   | 620   | 595   | 858   | 385   | 409   | 523   | 302   | 484   | 430   | 403   | 759   | 593   | 749   | 460   | 492   | 502   | 633   | 756   | 630   | 673   |       |       |       |       |       |      |      |      | 19   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | CP     | Grenada                    | LL      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | 20   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | CP     | Vanuatu                    | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      | 21   | 0.5%  | 94%  |      |     |  |
| YFT     | ATW   | CP     | Vanuatu                    | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      | 22    | 0.5% | 94%  |     |  |
| YFT     | ATW   | CP     | Belize                     | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      | 23    | 0.5% | 95%  |     |  |
| YFT     | ATW   | CP     | Belize                     | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       | 24   | 0.5% | 95% |  |
| YFT     | ATW   | CP     | Barbados                   | LL      | t1    | 62    | 89    | 108   | 179   | 161   | 156   | 255   | 160   | 149   | 150   | 155   | 155   | 142   | 115   | 146   | 181   | 243   | 160   | 133   | 135   | 60    | 86    | 103   | 145   | 175   | 194   | 258   | 316  | 217  | 225  | 20   | 0.5%  | 93%  |      |     |  |
| YFT     | ATW   | CP     | Barbados                   | LL      | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1   | 21    | 0.5% | 94%  |     |  |
| YFT     | ATW   | CP     | China PR                   | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       | 628   | 655   | 22    | 470   | 435   | 17    | 275   | 74    | 29    | 124   | 284   | 248   | 258   | 126   | 94    | 81    | 73   | 91   | 182  | 232  | 172   | 21   | 0.5% | 94% |  |
| YFT     | ATW   | CP     | China PR                   | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | a    | 22    | 0.5% | 94%  |     |  |
| YFT     | ATW   | CP     | EU.France                  | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      | 23    | 0.5% | 95%  |     |  |
| YFT     | ATW   | CP     | EU.France                  | LL      | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       | 24   | 0.5% | 95% |  |
| YFT     | ATW   | CP     | Korea Rep.                 | LL      | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       | 25   | 0.4% | 96% |  |
| YFT     | ATW   | CP     | Korea Rep.                 | LL      | t2    | 1055  | 484   |       | 1     | 45    | 11    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       | 26   |      |     |  |
| YFT     | ATW   | CP     | Korea Rep.                 | LL      | t3    | ab    | ab    | ab    | ab    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | a    | a    | a    | 27    |      |      |     |  |
| YFT     | ATW   | CP     | EU.España                  | PS      | t1    |       |       |       |       | 1451  | 1290  | 810   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       | 28   | 0.5% | 95% |  |
|         |       |        |                            |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |       |      |      |     |  |

Table 10. SKJ-E stock

|         |       |        | T1 Total                  |         |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 95021 | 118937 | 190065 | 141050 | 176600 | 161437 | 152933 | 129629 | 117217 | 132384 | 153484 | 126328 | 132182 | 101042 | 130755 | 154558 | 143982 | 111924 | 118192 | 123082 | 137828 | 163875 | 187073 | 218663 | 224143 | 205208 | 221192 | 235206 | 244938 | 282427 |  |  |  |
|---------|-------|--------|---------------------------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Species | Stock | Status | FlagName                  | GearGrp | Dset | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Rank  | %     | %cum  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.España                 | PS      | t1   | 30957 | 45077 | 78877 | 50579 | 66402 | 49987 | 48733 | 33947 | 33428 | 29976 | 42714 | 37145 | 27798 | 21596 | 39396 | 33421 | 18718 | 14975 | 17675 | 27918 | 30041 | 34175 | 46823 | 48185 | 57594 | 43139 | 38754 | 41085 | 46867 | 39807 | 1     | 24.3% | 24%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.España                 | PS      | t2   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | 1     |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Ghana                     | BB      | t1   | 22163 | 23663 | 24464 | 18379 | 19637 | 21258 | 18607 | 20115 | 20315 | 25895 | 31134 | 22919 | 44464 | 18516 | 18094 | 34151 | 26042 | 20597 | 22845 | 13893 | 19743 | 13731 | 16012 | 16736 | 11269 | 10111 | 12369 | 13420 | 9450  | 10847 | 2     | 12.4% | 37%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Ghana                     | BB      | t2   | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | a     |       | 2     |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Ghana                     | PS      | t1   |       |       |       |       |       |       |       | 4090  | 6065  | 17717 | 22954 | 13598 | 13076 | 21677 | 16341 | 13595 | 28167 | 11337 | 12574 | 24755 | 24179 | 31773 | 28157 | 37528 | 36861 | 40035 | 49745 | 41464 | 48458 | 55940 | 3     | 12.4% | 49%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Ghana                     | PS      | t2   |       |       |       |       |       |       |       | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | a     |       | 3     |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.France                 | PS      | t1   | 12971 | 16393 | 36875 | 25738 | 39637 | 37806 | 28059 | 23856 | 16736 | 17850 | 22317 | 21426 | 15829 | 15899 | 21505 | 23224 | 13523 | 5770  | 3580  | 3948  | 7722  | 14582 | 13569 | 13395 | 16022 | 17085 | 20253 | 18164 | 15392 | 21983 | 4     | 11.6% | 61%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.France                 | PS      | t2   | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     |       | 4     |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Curaçao                   | PS      | t1   |       |       |       |       |       |       |       | 7096  | 8444  | 8553  | 9932  | 10008 | 13370 | 5427  | 10092 | 8708  | 88    | 3213  | 1703  | 6541  | 10060 | 9594  | 12380 | 13324 | 18312 | 18437 | 19621 | 22180 | 20660 | 24539 | 5     | 5.4%  | 66%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Curaçao                   | PS      | t2   |       |       |       |       |       |       |       | ab    | ab    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | b     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ac    | 5     |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Panama                    | PS      | t1   | 1041  | 4839  | 8247  | 8719  | 12939 | 12845 | 14853 | 5855  | 1300  | 572   | 1117  | 1374  | 281   | 342   |       |       | 7126  | 12286 | 14016 | 19798 | 8946  | 9199  | 9944  | 13119 | 11211 | 15520 | 14565 | 8372  | 11510 | 8815  | 9089  | 6     | 5.1%  | 71%    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Panama                    | PS      | t2   | b     | b     | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ac    | 6     |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.España                 | BB      | t1   | 5838  | 4645  | 5907  | 7195  | 3217  | 5270  | 5760  | 5044  | 7075  | 8593  | 5607  | 3780  | 3156  | 3836  | 7174  | 7207  | 10119 | 7633  | 6378  | 8345  | 8647  | 8405  | 11674 | 19445 | 10185 | 9951  | 7269  | 10994 | 10560 | 13085 | 7     | 4.8%  | 76%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.España                 | BB      | t2   | abc   | abc   | ac    | ac    | ac    | ac    | ac    | ac    | abc   | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | 7     |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.Portugal               | BB      | t1   | 7715  | 3954  | 7987  | 7412  | 5598  | 7510  | 4986  | 8276  | 4395  | 4519  | 1800  | 1285  | 2135  | 2940  | 4276  | 8459  | 4687  | 11001 | 8604  | 5734  | 904   | 12859 | 4078  | 2758  | 4039  | 1703  | 1296  | 695   | 1752  | 6985  | 8     | 3.1%  | 79%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.Portugal               | BB      | t2   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | 8     |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Cape Verde                | PS      | t1   |       |       |       |       |       |       |       | 8     | 18    | 21    | 1     |       | 300   | 366   | 54    | 1040  | 7498  | 4862  | 5434  | 4872  | 5387  | 5823  | 8277  | 5680  | 16135 | 16307 | 17292 | 9425  | 5895  | 6698  | 9     | 2.5%  | 82%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Cape Verde                | PS      | t2   |       |       |       | a     |       |       |       | a     | a     | a     | a     |       | a     | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | 9     |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | NCO    | Mixed flags (EU tropical) | PS      | t1   | 1341  | 1192  | 5176  | 2959  | 3858  | 3568  | 4543  | 1316  | 2345  | 1508  | 1119  | 2194  | 218   | 65    | 1547  | 2953  | 1708  | 1478  | 3003  | 2998  | 2624  | 3427  | 2372  |       |       |       |       |       |       |       | 10    | 2.1%  | 84%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | NCO    | Mixed flags (EU tropical) | PS      | t2   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | b     | b     |       | -1    | -1    | -1    | -1    | -1    | -1    | b     | b     | b     | b     | b     | b     | b     | b     | -1    | -1    | -1    | -1    | 10    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Belize                    | PS      | t1   |       |       |       |       |       |       |       |       |       |       | 720   |       | 229   | 278   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 11    | 2.0%  | 86%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Belize                    | PS      | t2   |       |       |       |       |       |       |       |       |       |       | a     |       | ab    | ab    | ab    | ab    | b     |       |       |       |       | 1488  | 3109  | 7797  | 15733 | 6854  | 11080 | 12599 | 7730  | 9958  | 20748 | 11    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Guatemala                 | PS      | t1   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | abc   | ab    | ab    | ab    | ab    | ab    | ab    | abc   | a     |       | 12    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Guatemala                 | PS      | t2   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2120  | 4808  | 6649  | 5028  | 5612  | 6481  | 4095  | 3087  | 2880  | 3732  | 4979  | 5904  | 7078  | 7386  | 9800  | 8648  | 12    | 1.8%   | 88%    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Senegal                   | PS      | t1   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 13    |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Senegal                   | PS      | t2   | 309   | 8     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 13    | 1.4%  | 89%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Senegal                   | PS      | t2   | ab    | a     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 13    |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Maroc                     | PS      | t1   | 1222  | 6831  | 1745  | 598   | 3637  | 3596  | 6740  | 2728  | 5468  | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | 14    | 1.3%  | 90%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Maroc                     | PS      | t2   | b     | b     | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | 14    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Senegal                   | BB      | t1   | 402   | 123   | 343   |       | 55    | 64    | 282   | 238   | 429   | 1699  | 1632  | 1357  | 1284  | 1178  | 639   | 1446  | 5033  | 3858  | 4552  | 3045  | 4506  | 2707  | 5383  | 4414  | 4490  | 3092  | 1895  | 2495  | 2740  | 1085  | 15    | 1.3%  | 92%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Senegal                   | BB      | t2   | ab    | ab    | a     |       | a     | a     | a     | ac    | a     | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | ac    | 15    |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | El Salvador               | PS      | t1   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 16    | 1.1%  | 93%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | El Salvador               | PS      | t2   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 16    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.France                 | BB      | t1   | 3802  | 3352  | 1147  | 1507  | 2153  | 2546  | 2697  | 1698  | 3701  | 4179  | 2343  | 1497  | 2550  | 2305  | 1878  | 1752  | 2240  | 1610  | 795   | 778   | 1186  | 904   | 932   | 1382  | 682   | 750   | 939   | 1270  | 1275  | 933   | 17    | 1.1%  | 94%   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | EU.France                 | BB      | t2   | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | a     |       | 17    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Vanuatu                   | PS      | t1   |       |       | 5281  | 5468  | 10808 | 10896 | 8477  | 5992  | 1233  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 18    | 1.0%  | 95%    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Vanuatu                   | PS      | t2   | b     |       | a     | a     | a     | a     | a     | a     | a     |       | a     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 18    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Guinée Rep.               | PS      | t1   |       |       |       |       |       |       |       | 975   | 6432  | 2408  |       |       |       |       |       |       |       | 387   |       |       |       |       |       |       |       |       |       |       |       |       |       | 19    | 0.9%  | 96%    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Guinée Rep.               | PS      | t2   |       |       |       |       |       |       |       | a     | a     | a     |       |       |       |       |       |       |       | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       | 19    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Côte d'Ivoire             | GN      | t1   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1173  | 259   | 292   | 143   | 559   | 1259  | 1565  | 1817  | 2328  | 2840  | 2840  | 3883  | 4926  | 5188  | 311   | 254   | 373    | 1533   | 22     | 0.7%   | 97%    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |
| SKJ     | ATE   | CP     | Côte d'Ivoire             | GN      | t2   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a     | ab    | a     | ab    | -1    | 20     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |

Table 11. SKJ-W stock

|         |       |        |            | T1 Total |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |      |     |  |  |
|---------|-------|--------|------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-----|--|--|
|         |       |        |            | 26382    | 26110 | 33404 | 30155 | 33221 | 29949 | 21860 | 27562 | 31712 | 29087 | 27356 | 29193 | 31451 | 21600 | 24749 | 27461 | 28517 | 26453 | 25443 | 22022 | 25774 | 25866 | 32390 | 32848 | 34872 | 27196 | 20711 | 22083 | 23568 | 22873 |       |       |      |       |      |     |  |  |
| Species | Stock | Status | Flag/Name  | Gear/Grp | D/Set | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Rank | %     | %cum |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | BB       | t1    | 20750 | 20130 | 20548 | 18533 | 17762 | 20582 | 16530 | 22517 | 25821 | 23570 | 22948 | 24691 | 24038 | 18185 | 20416 | 23036 | 25269 | 23029 | 23783 | 20632 | 23077 | 22627 | 29322 | 30569 | 32127 | 24787 | 17499 | 16418 | 14577 | 14886 | 1    | 80.1% | 80%  |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | BB       | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab    | a     | a     | a     | -1    | a     | a     | ab    | ab    | ab    | ab    | ab    | a     | a     | a     | a     | a     | a     | ab    | a     |       |       | 1    |       |      |     |  |  |
| SKJ     | ATW   | CP     | Venezuela  | PS       | t1    | 2430  | 3014  | 6186  | 6893  | 10049 | 5692  | 2059  | 3348  | 3604  | 3607  | 2696  | 2590  | 5189  | 2000  | 2296  | 2769  | 848   | 1806  | 806   | 688   | 1808  | 1931  | 1308  | 1573  | 908   | 1081  | 1974  | 1912  | 2150  | 2012  | 2    | 10.4% | 91%  |     |  |  |
| SKJ     | ATW   | CP     | Venezuela  | PS       | t2    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | -1    | 2    |       |      |     |  |  |
| SKJ     | ATW   | NCO    | Cuba       | BB       | t1    | 1449  | 1443  | 1596  | 1638  | 1017  | 1268  | 886   | 1000  | 1000  | 651   | 651   | 651   |       |       | 624   | 545   | 514   | 536   |       |       |       |       |       |       |       |       |       |       |       | 3     | 1.9% | 92%   |      |     |  |  |
| SKJ     | ATW   | NCO    | Cuba       | BB       | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | b     | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       | 3     |      |       |      |     |  |  |
| SKJ     | ATW   | CP     | Venezuela  | BB       | t1    | 1293  | 777   | 1952  | 941   | 1123  | 1005  | 328   | 224   | 224   | 506   | 282   | 299   | 1104  | 552   | 950   | 501   | 245   | 201   |       | 115   | 69    | 441   | 177   | 146   | 124   | 60    | 27    | 39    | 393   | 70    | 167  | 4     | 1.7% | 94% |  |  |
| SKJ     | ATW   | CP     | Venezuela  | BB       | t2    | ab    | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | -1    | 4    |       |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | HL       | t1    |       |       |       |       |       |       |       |       | 0     |       |       |       |       |       |       |       |       |       | 5     |       | 4     | 159   | 244   | 222   | 369   | 465   | 1169  | 5293  | 4461  | 5     | 1.5% | 96%   |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | HL       | t2    |       |       |       |       |       |       |       |       | -1    |       |       |       |       |       |       |       |       |       |       | -1    | 4     | -1    | -1    | -1    | -1    | -1    | -1    | ab    | 5     |       |      |       |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | PS       | t1    |       |       |       |       |       |       |       |       |       | 743   | 219   | 240   | 473   | 108   | 116   |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 6     |      |       |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | PS       | t2    |       |       |       |       |       |       |       |       |       | -1    | -1    | a     | -1    | -1    | -1    |       |       |       | a     | a     | 239   | 403   | 213   | 223   | 552   | 9     |       |       |       | 6     | 0.6% | 96%   |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | PS       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 6     |      |       |      |     |  |  |
| SKJ     | ATW   | CP     | EU.España  | PS       | t1    |       |       | 1592  | 1120  | 397   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 109   | 7    | 0.5%  | 97%  |     |  |  |
| SKJ     | ATW   | CP     | EU.España  | PS       | t2    |       |       | -1    | ac    | -1    |       |       |       | ac    | ac    | a     | ac    |       |       | a     | ac    |       |       | ac    |       | abc   | abc   | abc   | abc   | abc   | ac    | abc   | ac    | -1    | ac    | a    | 7     |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | LL       | t1    |       |       | 0     | 2     | 9     |       | 6     | 30    | 9     |       |       |       |       |       | 38    |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 8     | 0.3% | 97%   |      |     |  |  |
| SKJ     | ATW   | CP     | Brazil     | LL       | t2    |       |       | -1    | b     | a     |       | -1    | -1    | -1    |       |       |       |       | -1    | a     | a     |       | a     |       |       |       | 3     | 825   | 323   | 41    | 88    | 39    | 170   | 645   | 199   | 260  | 8     |      |     |  |  |
| SKJ     | ATW   | NCO    | Colombia   | UN       | t1    |       |       |       |       |       | 789   | 1583  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 9     | 0.3% | 97%   |      |     |  |  |
| SKJ     | ATW   | NCO    | Colombia   | UN       | t2    |       |       |       |       |       | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 9     |      |       |      |     |  |  |
| SKJ     | ATW   | CP     | U.S.A.     | RR       | t1    |       | 19    | 66    | 86    | 49    | 81    | 66    | 21    | 82    | 64    | 86    | 99    | 30    | 49    | 70    | 61    | 74    | 15    | 49    | 52    | 49    | 102   | 45    | 77    | 104   | 115   | 172   | 92    | 176   | 195   | 76   | 10    | 0.3% | 98% |  |  |
| SKJ     | ATW   | CP     | U.S.A.     | RR       | t2    | a     | ab    | ab    | ab    | ab    | ab    | ab    | b     | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | ab    | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | 10   |       |      |     |  |  |
| SKJ     | ATW   | NCO    | Sta. Lucia | TR       | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 106   | 132   | 137   | 159   | 120   | 89    | 168   |       | 153   | 143   | 109   | 171   | 139   | 87    | 138   | 142   | 122  | 11    | 0.3% | 98% |  |  |
| SKJ     | ATW   | NCO    | Sta. Lucia | TR       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | 11   |       |      |     |  |  |
| SKJ     | ATW   | NCO    | Colombia   | PS       | t1    |       |       |       |       |       | 2074  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 12   | 0.3%  | 98%  |     |  |  |
| SKJ     | ATW   | NCO    | Colombia   | PS       | t2    |       |       |       |       |       | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 12   |       |      |     |  |  |

Table 12. SWO-N stock

|         |       |        |                     |         |      | T1 Total | 17250 | 15672 | 14934 | 15394 | 16738 | 15501 | 16872 | 15222 | 13025 | 12223 | 11622 | 11453 | 10011 | 9654 | 11442 | 12068 | 12373 | 11470 | 12302 | 11050 | 12081 | 11553 | 12523 | 13868 | 12069 | 10678 | 10673 | 10376 | 10169 | 8863 |       |      |     |  |
|---------|-------|--------|---------------------|---------|------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-----|--|
| Species | Stock | Status | FlagName            | GearGrp | Dset | 1989     | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003 | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | Rank | %     | %cum |     |  |
| SWO     | ATN   | CP     | EU.España           | LL      | t1   | 5696     | 5736  | 6506  | 6351  | 6392  | 6027  | 6948  | 5519  | 5133  | 4079  | 3993  | 4581  | 3967  | 3954  | 4585 | 5373  | 5511  | 5446  | 5564  | 4366  | 4949  | 4147  | 4885  | 5620  | 4082  | 3750  | 4013  | 3915  | 3586  | 3186  | 1    | 39.0% | 39%  |     |  |
| SWO     | ATN   | CP     | EU.España           | LL      | t2   | abc      | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ac    | abc   | abc   | abc   | abc   | 1    |       |      |     |  |
| SWO     | ATN   | CP     | U.S.A.              | LL      | t1   | 5855     | 4967  | 4399  | 4124  | 4044  | 3960  | 4452  | 4015  | 3399  | 3433  | 3364  | 3316  | 2498  | 2598  | 2757 | 2591  | 2273  | 1961  | 2474  | 2405  | 2691  | 2204  | 2572  | 3347  | 2812  | 1816  | 1593  | 1389  | 1301  | 1105  | 2    | 23.7% | 63%  |     |  |
| SWO     | ATN   | CP     | U.S.A.              | LL      | t2   | ab       | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | 2     |      |     |  |
| SWO     | ATN   | CP     | Canada              | LL      | t1   | 1097     | 819   | 953   | 1487  | 2206  | 1654  | 1421  | 646   | 1005  | 927   | 1136  | 923   | 984   | 954   | 1216 | 1161  | 1470  | 1238  | 1142  | 1115  | 1061  | 1182  | 1351  | 1502  | 1290  | 1383  | 1489  | 1473  | 1034  | 753   | 3    | 9.5%  | 72%  |     |  |
| SWO     | ATN   | CP     | Canada              | LL      | t2   | ab       | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | bc    | abc  | abc   | abc   | bc    | bc    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc   | 3    |     |  |
| SWO     | ATN   | CP     | EU.Portugal         | LL      | t1   | 292      | 463   | 757   | 497   | 1950  | 1579  | 1593  | 1702  | 902   | 772   | 776   | 731   | 731   | 765   | 1032 | 1319  | 900   | 949   | 778   | 747   | 898   | 1054  | 1202  | 882   | 1438  | 1241  | 1420  | 1171  | 1751  | 1670  | 4    | 8.4%  | 81%  |     |  |
| SWO     | ATN   | CP     | EU.Portugal         | LL      | t2   | ab       | ab    | ab    | abc   | ac    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | ab   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab    | 4    |     |  |
| SWO     | ATN   | CP     | Japan               | LL      | t1   | 1572     | 1051  | 992   | 1064  | 1126  | 933   | 1043  | 1494  | 1218  | 1391  | 1089  | 759   | 567   | 319   | 263  | 575   | 705   | 656   | 889   | 935   | 778   | 1062  | 523   | 639   | 300   | 545   | 430   | 379   | 456   | 325   | 5    | 6.4%  | 87%  |     |  |
| SWO     | ATN   | CP     | Japan               | LL      | t2   | abc      | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | bc    | bc    | bc   | bc    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | ab   | ab    | 5    |     |  |
| SWO     | ATN   | CP     | Maroc               | LL      | t1   | 219      | 24    | 92    | 41    | 27    | 7     | 28    | 35    | 239   |       | 35    | 38    | 264   | 154   | 223  | 255   | 325   | 333   | 229   | 428   | 720   | 963   | 700   | 1000  | 1000  | 800   | 800   | 750   | 950   | 6     | 3.0% | 90%   |      |     |  |
| SWO     | ATN   | CP     | Maroc               | LL      | t2   | -1       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | bc   | abc   | abc   | abc   | abc   | abc   | bc    | abc   | a     | a     | abc   | bc    | abc   | ab    | abc   | abc   | 6    |       |      |     |  |
| SWO     | ATN   | NCC    | Chinese Taipei      | LL      | t1   | 17       | 269   | 577   | 441   | 127   | 507   | 489   | 521   | 509   | 286   | 285   | 347   | 299   | 310   | 257  | 30    | 140   | 172   | 103   | 82    | 89    | 88    | 192   | 193   | 115   | 85    | 133   | 152   | 96    | 169   | 7    | 1.9%  | 92%  |     |  |
| SWO     | ATN   | NCC    | Chinese Taipei      | LL      | t2   | abc      | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc  | 7     |      |     |  |
| SWO     | ATN   | CP     | Canada              | HP      | t1   | 150      | 92    | 73    | 60    | 28    | 22    | 189   | 93    | 89    | 240   | 18    | 95    | 121   | 38    | 147  | 87    | 193   | 203   | 267   | 258   | 248   | 176   | 208   | 97    | 275   | 233   | 98    | 85    | 175   | 34    | 8    | 1.1%  | 93%  |     |  |
| SWO     | ATN   | CP     | Canada              | HP      | t2   | ab       | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | 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   |          |       |       |       | 73    | 86    | 104   | 132   | 40    | 337   | 304   | 22    | 102   | 90    | 316  | 56    | 108   | 72    | 85    | 92    | 92    | 73    | 75    | 59    | 96    | 60    | 141   | 135   | 81    | 86    | 9    | 0.8%  | 94%  |     |  |
| SWO     | ATN   | CP     | China PR            | LL      | t2   |          |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | a     | a    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | 9     |      |     |  |
| SWO     | ATN   | CP     | EU.España           | GN      | t1   | 949      | 646   | 124   | 316   | 202   | 150   |       |       |       | 20    |       |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 10    | 0.6% | 94% |  |
| SWO     | ATN   | CP     | EU.España           | GN      | t2   | ac       | ac    | ab    |       | -1    | -1    | -1    |       |       | -1    |       |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 10    |      |     |  |
| SWO     | ATN   | CP     | Trinidad and Tobago | LL      | t1   | 79       | 66    | 71    | 562   | 11    | 180   | 150   | 158   | 110   | 130   | 138   | 41    | 75    | 92    | 78   | 83    | 91    | 19    | 29    | 48    | 30    | 21    | 16    | 14    | 16    | 26    | 17    | 13    | 36    | 3     | 11   | 0.6%  | 95%  |     |  |
| SWO     | ATN   | CP     | Trinidad and Tobago | LL      | t2   | -1       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | 11    |      |     |  |
| SWO     | ATN   | CP     | U.S.A.              | GN      | t1   | 524      | 535   | 82    | 86    | 92    | 88    | 74    | 78    | 0     | 36    |       | 0     |       | 0     |      |       |       |       | 0     |       | 0     |       | 0     |       |       |       |       |       |       |       |      | 12    | 0.4% | 95% |  |
| SWO     | ATN   | CP     | U.S.A.              | GN      | t2   | b        | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    |       | -1    |       | -1   |       | -1    |       |       | -1    |       | bc    |       |       | c     |       |       |       |       |       |      | 12    |      |     |  |
| SWO     | ATN   | CP     | U.S.A.              | HL      | t1   |          |       |       |       | 38    |       |       | 0     | 1     |       | 5     | 9     | 9     | 12    | 21   | 23    | 35    | 33    | 125   | 94    | 125   | 129   | 121   | 155   | 105   | 88    | 77    | 76    | 62    | 132   | 13   | 0.4%  | 96%  |     |  |
| SWO     | ATN   | CP     | U.S.A.              | HL      | t2   |          |       |       |       | -1    |       |       | -1    | b     | b     | c     | bc    | bc    | c     | bc   | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc    | bc   | 13    |      |     |  |
| SWO     | ATN   | CP     | Korea Rep.          | LL      | t1   | 320      | 51    | 3     | 3     | 19    | 16    | 16    | 19    | 15    |       |       |       |       |       |      |       |       | 51    | 65    | 175   | 157   | 3     |       | 170   | 46    | 83    | 35    | 2     | 9     | 19    | 9    | 14    | 0.3% | 96% |  |
| SWO     | ATN   | CP     | Korea Rep.          | LL      | t2   | ab       | ab    | a     | ab    | a     | a     | a     | a     | a     |       |       |       |       |       |      |       | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | 14    |      |     |  |
| SWO     | ATN   | CP     | Maroc               | GN      | t1   | 19       | 9     | 4     | 2     | 13    | 32    | 322   | 13    | 179   | 60    | 51    | 243   | 64    | 98    | 76   | 9     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      | 15    | 0.3% | 96% |  |
| SWO     | ATN   | CP     | Maroc               | GN      | t2   | -1       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | c     | ac    | ac    | ac    |      | -1    | b     | b     | b     |       |       |       |       |       |       |       |       |       |       |       |      | 15    |      |     |  |
| SWO     | ATN   | CP     | EU.France           | UN      | t1   | 75       | 75    | 75    | 95    |       |       | 38    | 97    | 164   |       |       |       |       |       |      | 32    | 102   | 178   |       | 0     | 46    | 14    | 3     | 1     | 0     | 1     |       |       |       |       | 16   | 0.3%  | 97%  |     |  |
| SWO     | ATN   | CP     | EU.France           | UN      | t2   | -1       | -1    | -1    | c     | c     |       |       | -1    | -1    | -1    |       |       |       |       | -1   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |      | 16    |      |     |  |
| SWO     | ATN   | CP     | Belize              | LL      | t1   |          |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |       | 9     | 1     | 112   | 106   | 184   | 141   | 142   | 76    | 1     | 3     | 59    | 145  | 17    | 0.3% | 97% |  |
| SWO     | ATN   | CP     | Belize              | LL      | t2   |          |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |       | a     | a     | ab    | ab    | ab    | ab    | a     | a     | ab    | a     | ab    | a     | ab    | abc  | 17    |      |     |  |
| SWO     | ATN   | CP     | Venezuela           | LL      | t1   | 2        | 4     | 73    | 101   | 68    | 60    | 45    | 74    | 11    | 7     | 9     | 30    | 12    | 25    | 29   | 46    | 48    | 15    | 19    | 5     | 8     | 16    | 13    | 18    | 20    | 18    | 29    | 53    | 52    |       | 18   | 0.2%  | 97%  |     |  |
| SWO     | ATN   | CP     | Venezuela           | LL      | t2   | b        | b     | b     | b     | b     | b     | b     | b     | b     | b     | ab    | ab    | b     | ab    | ab   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     |       |       |      | 18    |      |     |  |

Table 13. SWO-S stock

|         |       |        |                    | T1 Total | 17055 | 17304 | 13893 | 13813 | 16130 | 18958 | 21930 | 18289 | 18542 | 14027 | 15502 | 15728 | 15128 | 14104 | 12634 | 13081 | 13163 | 14245 | 15630 | 12546 | 12848 | 12698 | 11455 | 10686 | 9169 | 9956 | 10338 | 10658 | 10556 | 10404 |      |      |       |      |     |
|---------|-------|--------|--------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|------|-------|------|-----|
| Species | Stock | Status | FlagName           | GearGrp  | DSet  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012 | 2013 | 2014  | 2015  | 2016  | 2017  | 2018 | Rank | %     | %cum |     |
| SWO     | ATS   | CP     | EU.España          | LL       | t1    | 7725  | 6166  | 5760  | 5651  | 6974  | 7937  | 11290 | 9622  | 8461  | 5832  | 5758  | 6388  | 5789  | 5741  | 4527  | 5483  | 5402  | 5300  | 5283  | 4073  | 5183  | 5801  | 4700  | 4852 | 4184 | 4113  | 5059  | 4992  | 4654  | 4404 | 1    | 42.1% | 42%  |     |
| SWO     | ATS   | CP     | EU.España          | LL       | t2    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc  | abc   | ac    | ac    | ac    |      |      |       |      |     |
| SWO     | ATS   | CP     | Brazil             | LL       | t1    | 1168  | 1696  | 1312  | 2609  | 2013  | 1571  | 1970  | 1892  | 4100  | 3844  | 4721  | 4579  | 4075  | 2903  | 2917  | 2914  | 3780  | 4120  | 3892  | 3152  | 3132  | 2657  | 2800  | 2831 | 2381 | 2892  | 2594  | 2935  | 2406  | 2792 | 2    | 20.6% | 63%  |     |
| SWO     | ATS   | CP     | Brazil             | LL       | t2    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | a    | a     | a     | a     | a     | ab   |      |       |      |     |
| SWO     | ATS   | CP     | Japan              | LL       | t1    | 4019  | 6708  | 4459  | 2870  | 5256  | 4699  | 3619  | 2197  | 1494  | 1186  | 775   | 790   | 685   | 833   | 924   | 686   | 480   | 1090  | 2155  | 1600  | 1340  | 1314  | 1233  | 1162 | 684  | 976   | 659   | 637   | 915   | 640  | 3    | 13.3% | 76%  |     |
| SWO     | ATS   | CP     | Japan              | LL       | t2    | ab    | ab    | ab    | ab    | ab    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab   | ab   | ab    | ab    | ab    | ab    | ab   | ab   |       |      |     |
| SWO     | ATS   | NCC    | Chinese Taipei     | LL       | t1    | 610   | 896   | 1453  | 1686  | 846   | 2829  | 2876  | 2873  | 2562  | 1147  | 1168  | 1303  | 1149  | 1164  | 1254  | 745   | 744   | 377   | 671   | 727   | 612   | 410   | 428   | 496  | 582  | 451   | 554   | 480   | 527   | 472  | 4    | 7.6%  | 84%  |     |
| SWO     | ATS   | NCC    | Chinese Taipei     | LL       | t2    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | abc   | abc   | abc   | abc   | abc  |      |       |      |     |
| SWO     | ATS   | CP     | Uruguay            | LL       | t1    | 414   | 302   | 156   | 210   | 260   | 165   | 499   | 644   | 760   | 889   | 650   | 713   | 789   | 768   | 850   | 1105  | 843   | 620   | 464   | 370   | 501   | 222   | 179   | 40   | 103  |       |       |       |       |      | 5    | 3.0%  | 87%  |     |
| SWO     | ATS   | CP     | Uruguay            | LL       | t2    | a     | a     | a     | a     | a     | a     | a     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab    | ab    | ab    | ab    | ab   |      |       |      |     |
| SWO     | ATS   | CP     | Namibia            | LL       | t1    |       |       |       |       |       | 22    |       |       |       |       | 374   | 452   | 607   | 504   | 187   | 549   | 832   | 1118  | 1038  | 518   | 25    | 408   | 366   | 22   | 129  | 395   | 225   | 466   | 600   | 881  | 6    | 2.3%  | 89%  |     |
| SWO     | ATS   | CP     | Namibia            | LL       | t2    |       |       |       |       | a     |       |       |       |       |       | -1    | ab    | a     | -1    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab   | a    | a     | a     | abc   | bc    |      |      |       |      |     |
| SWO     | ATS   | CP     | EU.Portugal        | LL       | t1    |       |       |       |       |       | 380   | 389   | 441   | 384   | 381   | 392   | 393   | 380   | 354   | 345   | 493   | 440   | 428   | 271   | 367   | 232   | 263   | 184   | 125  | 252  | 236   | 250   | 466   | 369   | 7    | 2.0% | 91%   |      |     |
| SWO     | ATS   | CP     | EU.Portugal        | LL       | t2    |       |       |       |       | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab    | ab    | ab    | ab    | ab   | ab   |       |      |     |
| SWO     | ATS   | CP     | China PR           | LL       | t1    |       |       |       |       |       |       |       |       |       | 29    | 534   | 344   | 200   | 423   | 353   | 278   | 91    | 300   | 473   | 470   | 291   | 296   | 248   | 316  | 196  | 206   | 328   | 222   | 302   | 355  | 8    | 1.5%  | 92%  |     |
| SWO     | ATS   | CP     | China PR           | LL       | t2    |       |       |       |       |       |       |       |       |       | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a    | abc  | ab    | abc   | abc   | abc   |      |      |       |      |     |
| SWO     | ATS   | CP     | South Africa       | LL       | t1    |       |       |       |       |       |       | 1     |       |       |       | 240   | 143   | 327   | 547   | 649   | 293   | 295   | 199   | 186   | 207   | 142   | 170   | 145   | 97   | 50   | 171   | 152   | 218   | 164   | 189  | 189  | 9     | 1.1% | 94% |
| SWO     | ATS   | CP     | South Africa       | LL       | t2    |       |       |       |       |       |       | -1    |       |       | ab    | ab    | ab    | ab    | ac    | abc   | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab   | ab   | ab    | ab    | ab    | ab    | ab   |      |       |      |     |
| SWO     | ATS   | CP     | Ghana              | GN       | t1    | 156   | 146   | 73    | 69    | 121   | 51    | 103   | 140   | 44    | 106   | 121   | 117   | 531   | 372   | 734   | 343   | 55    | 32    | 65    | 177   | 132   | 116   | 60    | 54   | 37   | 26    | 56    | 36    | 55    | 6    | 10   | 1.0%  | 95%  |     |
| SWO     | ATS   | CP     | Ghana              | GN       | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | ab    | b     | ab    | b     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | a     | ab    | a     | a     | a    | a    | a     | a     | a     | a     | a    |      |       |      |     |
| SWO     | ATS   | CP     | S. Tomé e Príncipe | TR       | t1    | 207   | 181   | 179   | 177   | 202   | 190   | 178   | 166   | 148   | 135   | 129   | 120   | 120   | 120   | 120   | 126   | 147   | 138   | 138   | 172   | 188   | 193   | 60    | 84   | 60   | 94    | 145   | 77    | 65    |      |      |       |      |     |
| SWO     | ATS   | CP     | S. Tomé e Príncipe | TR       | t2    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1    | -1    | -1    | -1    | -1   |      |       |      |     |
| SWO     | ATS   | NCO    | Cuba               | LL       | t1    | 830   | 448   | 209   | 246   | 192   | 452   | 778   | 60    | 60    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |       |       |       |      |      | 12    | 0.8% | 96% |
| SWO     | ATS   | NCO    | Cuba               | LL       | t2    | a     | a     |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |       |       |       |       |      |      |       |      |     |
| SWO     | ATS   | CP     | Korea Rep.         | LL       | t1    | 776   | 50    | 147   | 147   | 198   | 164   | 164   | 7     | 18    | 7     | 5     | 10    | 0     | 2     | 24    | 70    | 36    | 94    | 176   | 223   | 10    | 147   | 70    | 65   | 47   | 53    | 19    | 11    | 18    |      |      |       |      |     |
| SWO     | ATS   | CP     | Korea Rep.         | LL       | t2    | ab    | ab    | ab    | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | a     | -1    | a    | -1   | abc   | abc   | a     | abc   | ab   | abc  |       |      |     |
| SWO     | ATS   | CP     | Senegal            | LL       | t1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 77    | 138   | 195   | 180   | 264   | 162  | 178  | 143   | 97    | 173   | 160   | 92   |      |       |      |     |
| SWO     | ATS   | CP     | Senegal            | LL       | t2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | -1    | a     | -1    | a     | a     | a    | a    | a     | a     | a     | -1    | -1   |      |       |      |     |



Table 14. SWO-M stock

|         |       |        |           | T1 Total |      | 17762 | 16018 | 15746 | 14709 | 13265 | 16082 | 13015 | 12053 | 14693 | 14369 | 13699 | 15569 | 15006 | 12814 | 15694 | 14405 | 14622 | 14915 | 14227 | 12164 | 11840 | 13265 | 11450 | 9913 | 9096 | 9801 | 10751 | 10921 | 8402 | 7079 |      |       |       |     |
|---------|-------|--------|-----------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|------|------|-------|-------|-----|
| Species | Stock | Status | FlagName  | GearGrp  | Dset | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012 | 2013 | 2014 | 2015  | 2016  | 2017 | 2018 | Rank | %     | %cum  |     |
| SWO     | MED   | CP     | EU.Italy  | LL       | t1   | 2989  | 2454  | 2470  |       | 3260  | 3844  |       |       |       | 2458  | 2680  | 2639  | 2236  | 1841  | 5844  | 5452  | 5560  | 5253  | 4564  | 4521  |       | 4687  | 5101  | 4579 | 3856 | 2848 | 3384  | 4213  | 3917 | 2974 | 1754 | 1     |       |     |
| SWO     | MED   | CP     | EU.Italy  | LL       | t2   | -1    | b     | ab    | ab    |       | ab    | b     | b     | b     | ab    | b     | b     | b     | b     | b     | b     | b     | b     | b     | abc   | abc   | abc   | abc   | abc  | abc  | abc  | abc   | abc   | abc  | bc   | ab   | 2     | 27.2% | 27% |
| SWO     | MED   | CP     | EU.Italy  | GN       | t1   | 2542  | 4353  | 3142  | 4077  | 3070  | 3921  | 4264  | 2657  | 3632  | 3632  | 3632  | 4863  | 4152  | 1698  | 2540  | 1483  | 1891  | 2373  | 1948  |       |       |       |       |      |      |      |       |       |      |      |      | 2     | 15.2% | 42% |
| SWO     | MED   | CP     | EU.Italy  | GN       | t2   | -1    | ab    | ab    | ab    | ab    | ab    | b     | b     | b     | b     | ab    | b     | a     | b     | b     | b     | b     | b     | -1    |       |       |       |       |      |      |      |       |       |      |      |      | 2     |       |     |
| SWO     | MED   | CP     | EU.España | LL       | t1   | 1250  | 1438  | 1132  | 790   | 1293  | 1402  | 1351  | 1040  | 1184  | 1409  | 867   | 1396  | 1402  | 1421  | 1165  | 930   | 860   | 1405  | 1648  | 2063  | 1994  | 1785  | 1730  | 1580 | 1605 | 2019 | 2289  | 1732  | 1487 | 1470 | 3    | 11.0% | 53%   |     |
| SWO     | MED   | CP     | EU.España | LL       | t2   | ac    | ac    | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc   | abc  | abc  | abc  | abc   | abc   | abc  | abc  | abc  | 3     |       |     |
| SWO     | MED   | CP     | EU.Greece | LL       | t1   | 1120  | 1344  | 1904  | 1456  | 1568  | 2520  | 974   | 1237  | 750   | 1650  | 1520  | 1960  | 1730  | 1680  | 1230  | 1129  | 1424  | 1374  | 1907  | 989   | 1132  | 1494  | 1306  | 877  | 1731 | 1344 | 761   | 761   | 392  | 350  | 4    | 10.1% | 63%   |     |
| SWO     | MED   | CP     | EU.Greece | LL       | t2   | -1    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | -1    | ab    | ab    | ab    | b     | a     | a     | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab    | ab   | ab   | ab   | -1    | ab    | ab   | 4    |      |       |       |     |
| SWO     | MED   | CP     | Maroc     | GN       | t1   | 866   | 1186  | 1883  | 2068  | 2109  | 1518  | 2461  | 4653  | 2905  | 2979  | 2503  | 2266  | 2230  | 1629  | 1299  | 722   | 603   | 615   | 587   | 477   | 410   | 387   |       |      |      |      |       |       |      |      | 5    | 9.2%  | 73%   |     |
| SWO     | MED   | CP     | Maroc     | GN       | t2   | -1    | -1    | -1    | -1    | b     | -1    | -1    | c     | bc    | abc   | abc   | b     | b     | b     | b     | b     | b     | b     | abc   | -1    | abc   | abc   | abc   | abc  | abc  | abc  | abc   | abc   | abc  | abc  | 5    |       |       |     |
| SWO     | MED   | CP     | Maroc     | LL       | t1   | 97    | 371   | 508   | 807   | 517   | 527   | 169   | 273   | 245   | 323   | 259   | 205   | 754   | 1149  | 1670  | 1954  | 1801  | 1455  | 1107  | 1370  | 1110  | 1200  | 640   | 802  | 770  | 770  | 480   | 1110  | 1000 | 1013 | 6    | 6.2%  | 79%   |     |
| SWO     | MED   | CP     | Maroc     | LL       | t2   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | bc    | abc  | abc  | abc  | abc   | abc   | abc  | 6    |      |       |       |     |
| SWO     | MED   | CP     | Tunisie   | LL       | t1   | 159   | 176   | 181   | 178   | 354   | 298   | 378   | 352   | 346   | 414   | 468   | 483   | 567   | 1138  | 285   | 791   | 791   | 949   | 1024  | 1011  | 1012  | 1016  | 1040  | 1038 | 1036 | 1030 | 1034  | 1007  | 1003 | 974  | 7    | 5.2%  | 84%   |     |
| SWO     | MED   | CP     | Tunisie   | LL       | t2   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1   | -1   | -1   | -1    | -1    | -1   | -1   | 7    |       |       |     |
| SWO     | MED   | CP     | EU.Italy  | UN       | t1   | 7478  | 2294  | 2926  |       |       |       | 11    |       |       |       |       | 3     |       |       |       |       |       |       |       | 5     | 329   |       | 694   | 718  |      | 3    | 32    |       |      | 0    | 8    | 3.7%  | 88%   |     |
| SWO     | MED   | CP     | EU.Italy  | UN       | t2   | -1    | -1    | -1    |       |       |       |       |       |       |       |       | -1    |       |       | b     | b     | b     | b     |       | -1    | -1    |       | -1    | bc   | bc   |      |       |       | -1   | 8    |      |       |       |     |
| SWO     | MED   | CP     | Algerie   | LL       | t1   | 590   | 173   | 173   | 6     | 173   | 185   | 247   | 247   | 247   | 178   | 126   | 166   | 439   | 347   | 238   | 174   | 93    | 496   | 492   | 802   | 468   | 459   | 192   | 356  | 384  | 549  | 558   | 666   | 550  | 528  | 9    | 2.6%  | 90%   |     |
| SWO     | MED   | CP     | Algerie   | LL       | t2   | -1    | b     | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | a     |       | -1    | -1    | ab    | ab   | ab   | ab   | -1    | -1    | -1   | 9    |      |       |       |     |
| SWO     | MED   | CP     | EU.Malta  | LL       | t1   | 122   | 135   | 129   | 85    | 91    | 47    | 72    | 72    | 100   | 153   | 187   | 175   | 102   | 257   | 163   | 195   | 362   | 239   | 213   | 260   | 266   | 423   | 532   | 503  | 460  | 376  | 489   | 410   | 330  | 308  | 10   | 1.8%  | 92%   |     |
| SWO     | MED   | CP     | EU.Malta  | LL       | t2   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | ac    | ac    | ac    | -1    | -1    | -1    | abc   | bc    | ab    | abc   | abc   | ab    | ab    | abc  | ab   | abc  | abc   | abc   | abc  | abc  | 10   |       |       |     |
| SWO     | MED   | CP     | Turkey    | GN       | t1   | 209   | 243   | 100   | 136   | 292   | 533   | 306   | 320   | 350   | 450   | 230   | 370   | 360   | 300   | 274   | 317   | 341   | 337   | 352   |       |       |       |       |      |      |      |       |       |      |      | 11   | 1.5%  | 94%   |     |
| SWO     | MED   | CP     | Turkey    | GN       | t2   | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | ac    | ac    | ac    | ac    | c    |      |      |       |       |      |      | 11   |       |       |     |
| SWO     | MED   | CP     | Algerie   | GN       | t1   |       |       |       |       |       |       |       |       |       |       | 590   | 531   | 599   | 642   | 467   | 427   | 233   | 311   | 87    | 108   |       |       |       |      |      |      |       |       |      | 12   | 1.0% | 95%   |       |     |
| SWO     | MED   | CP     | Algerie   | GN       | t2   |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |      |      |      |       |       |      | 12   |      |       |       |     |
| SWO     | MED   | CP     | Algerie   | UN       | t1   |       | 539   | 389   | 389   | 389   | 415   | 560   | 560   | 560   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |       |      |      | 13   | 1.0%  | 96%   |     |
| SWO     | MED   | CP     | Algerie   | UN       | t2   |       | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |       |      |      | 13   |       |       |     |
| SWO     | MED   | NCO    | NEI (MED) | LL       | t1   | 598   | 918   | 733   | 733   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |       |      |      | 14   | 0.8%  | 97%   |     |
| SWO     | MED   | NCO    | NEI (MED) | LL       | t2   | -1    | -1    | -1    | -1    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |       |      |      | 14   |       |       |     |
| SWO     | MED   | CP     | Turkey    | LL       | t1   |       |       |       |       |       |       |       |       |       |       |       |       |       | 70    | 76    | 69    | 84    | 73    | 71    | 386   | 301   | 334   | 190   | 66   | 97   | 56   | 35    | 70    | 405  | 397  | 15   | 0.7%  | 97%   |     |
| SWO     | MED   | CP     | Turkey    | LL       | t2   |       |       |       |       |       |       |       |       |       |       |       |       |       | -1    | -1    | -1    | -1    | -1    | -1    | a     | a     | a     | ab    | a    | ab   | abc  | abc   | bc    | ab   | abc  | 15   |       |       |     |

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

|         |       |        |                     | T1 Total | 4339 | 4612 | 4220 | 3104 | 3175 | 4258 | 4230 | 5421 | 5737 | 5713 | 5408 | 5485 | 4474 | 3910 | 4419 | 3209 | 3579 | 3176 | 4364 | 3780 | 3345 | 3052 | 2901 | 2856 | 2162 | 2689 | 1930 | 2022 | 2134 | 1436 |      |      |       |      |     |
|---------|-------|--------|---------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-----|
| Species | Stock | Status | FlagName            | GearGrp  | DSet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum |     |
| BUM     | A+M   | CP     | Japan               | LL       | t1   | 1555 | 1217 | 900  | 1017 | 926  | 1523 | 1409 | 1679 | 1349 | 1185 | 790  | 883  | 335  | 267  | 442  | 540  | 442  | 490  | 920  | 1028 | 822  | 731  | 402  | 430  | 189  | 280  | 293  | 296  | 430  | 293  | 1    | 20.8% | 21%  |     |
| 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   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | 1    |       |      |     |
| BUM     | A+M   | NCC    | Chinese Taipei      | LL       | t1   | 473  | 1704 | 1672 | 824  | 685  | 663  | 467  | 660  | 1478 | 578  | 486  | 485  | 240  | 294  | 319  | 315  | 151  | 99   | 233  | 148  | 195  | 153  | 199  | 165  | 78   | 62   | 85   | 102  | 99   | 90   | 2    | 11.9% | 33%  |     |
| 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   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 2    |       |      |     |
| BUM     | A+M   | CP     | Ghana               | GN       | t1   | 430  | 324  | 126  | 123  | 236  | 441  | 471  | 422  | 491  | 447  | 624  | 639  | 795  | 999  | 415  | 470  | 759  | 405  | 683  | 191  | 140  | 116  | 332  | 234  | 163  | 236  | 88   | 44   | 162  | 60   | 3    | 10.0% | 43%  |     |
| BUM     | A+M   | CP     | Ghana               | GN       | t2   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 3    |       |      |     |
| BUM     | A+M   | CP     | EU.France           | HL       | t1   | 62   | 85   | 98   | 115  | 179  | 191  | 197  | 252  | 299  | 333  | 370  | 397  | 428  | 443  | 443  | 450  | 470  | 470  | 461  | 584  | 498  | 344  | 461  | 395  | 212  |      |      |      |      |      | 4    | 7.4%  | 50%  |     |
| BUM     | A+M   | CP     | EU.France           | HL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 4    |       |      |     |
| BUM     | A+M   | CP     | Brazil              | LL       | t1   | 59   | 50   | 60   | 125  | 146  | 79   | 169  | 308  | 165  | 340  | 509  | 467  | 780  | 387  | 577  | 194  | 610  | 241  | 149  | 120  | 75   | 47   | 62   | 47   | 112  | 105  | 89   | 79   | 64   | 37   | 5    | 5.6%  | 56%  |     |
| BUM     | A+M   | CP     | Brazil              | LL       | t2   | ab   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 5    |       |      |     |
| BUM     | A+M   | CP     | Liberia             | LL       | t1   |      |      |      |      |      |      |      | 87   | 148  | 148  | 701  | 420  | 712  | 235  | 158  | 115  | 188  | 304  | 162  | 274  | 76   | 56   | 46   | 133  | 94   | 178  | 293  | 35   | 127  |      | 6    | 4.2%  | 60%  |     |
| BUM     | A+M   | CP     | Liberia             | LL       | t2   |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 6    |       |      |     |
| BUM     | A+M   | NCO    | NEI (ETRO)          | LL       | t1   |      |      |      |      | 174  | 326  | 362  | 435  | 548  | 803  | 761  | 492  | 274  | 17   | 14   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 7    | 3.8%  | 64%  |     |
| BUM     | A+M   | NCO    | NEI (ETRO)          | LL       | t2   |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 7    |       |      |     |
| BUM     | A+M   | NCO    | Mixed flags (FR+ES) | PS       | t1   | 144  | 199  | 137  | 116  | 146  | 133  | 126  | 96   | 82   | 80   | 83   | 147  | 151  | 131  | 148  | 171  | 150  | 136  | 135  | 139  | 164  | 178  | 186  | 181  | 191  | 173  | 176  |      |      |      | 8    | 3.5%  | 67%  |     |
| 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   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 8    |       |      |     |
| BUM     | A+M   | CP     | Côte d'Ivoire       | GN       | t1   | 45   | 67   | 76   | 56   | 104  | 151  | 134  | 113  | 157  | 66   | 189  | 288  | 208  | 111  | 171  | 115  | 21   | 8    | 132  | 66   | 49   | 44   | 15   | 45   | 42   | 87   | 15   | 48   | 25   | 18   | 9    | 2.4%  | 70%  |     |
| BUM     | A+M   | CP     | Côte d'Ivoire       | GN       | t2   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 9     |      |     |
| BUM     | A+M   | CP     | Korea Rep.          | LL       | t1   | 689  | 324  | 537  | 24   | 13   | 56   | 56   | 144  | 56   | 2    | 3    | 1    | 1    |      | 0    | 1    | 6    | 33   | 64   | 91   | 36   | 85   | 62   | 34   | 24   | 11   | 5    | 26   | 25   | 25   | 10   | 2.2%  | 72%  |     |
| BUM     | A+M   | CP     | Korea Rep.          | LL       | t2   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 10   |       |      |     |
| BUM     | A+M   | CP     | EU.España           | LL       | t1   | 23   | 6    | 14   | 43   | 44   | 55   | 40   | 158  | 122  | 195  | 125  | 140  | 94   | 28   | 12   | 51   | 24   | 91   | 38   | 55   | 60   | 165  | 16   | 34   | 44   | 137  | 212  | 140  | 233  | 0    | 11   | 2.2%  | 74%  |     |
| BUM     | A+M   | CP     | EU.España           | LL       | t2   | -1   | -1   | -1   | -1   | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | -1   | 11    |      |     |
| BUM     | A+M   | CP     | Venezuela           | GN       | t1   | 99   | 13   | 13   | 21   | 24   | 58   | 48   | 71   | 86   | 175  | 190  | 80   | 57   | 50   | 55   | 57   | 110  | 118  | 184  | 105  | 69   | 94   | 63   | 88   | 60   | 98   | 89   | 102  |      | 64   | 12   | 2.1%  | 76%  |     |
| BUM     | A+M   | CP     | Venezuela           | GN       | t2   | -1   | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | a    | -1   | -1   | -1   | -1   | 12   |       |      |     |
| BUM     | A+M   | CP     | U.S.A.              | LL       | t1   | 191  | 160  | 142  | 146  | 127  | 111  | 153  | 197  | 139  | 51   | 83   | 60   | 22   | 37   | 19   | 34   | 24   | 36   | 42   | 37   | 40   | 19   | 50   | 38   | 55   | 53   | 81   | 25   | 47   | 22   | 13   | 2.0%  | 78%  |     |
| BUM     | A+M   | CP     | U.S.A.              | LL       | t2   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 13   |       |      |     |
| BUM     | A+M   | CP     | China PR            | LL       | t1   |      |      |      |      |      | 62   | 73   | 62   | 78   | 120  | 201  | 23   | 92   | 88   | 89   | 58   | 96   | 99   | 65   | 13   | 77   | 100  | 99   | 61   | 45   | 40   | 44   | 50   | 40   | 42   | 14   | 1.6%  | 80%  |     |
| BUM     | A+M   | CP     | China PR            | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 14   |       |      |     |
| BUM     | A+M   | CP     | Venezuela           | LL       | t1   | 51   | 57   | 38   | 34   | 52   | 59   | 64   | 72   | 56   | 51   | 50   | 45   | 27   | 38   | 65   | 44   | 51   | 53   | 37   | 25   | 51   | 57   | 53   | 56   | 52   | 41   | 60   | 83   | 97   | 80   | 15   | 1.4%  | 81%  |     |
| BUM     | A+M   | CP     | Venezuela           | LL       | t2   | -1   | -1   | -1   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | a    | -1   | 15    |      |     |
| BUM     | A+M   | NCO    | Dominican Republic  | HL       | t1   |      |      |      |      |      |      |      | 41   | 71   | 29   | 23   | 23   | 115  | 207  | 142  | 30   | 38   | 47   | 67   | 60   | 65   | 100  | 98   | 99   | 96   | 73   | 170  |      |      |      | 16   | 1.4%  | 83%  |     |
| BUM     | A+M   | NCO    | Dominican Republic  | HL       | t2   |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 16   |       |      |     |
| BUM     | A+M   | NCO    | NEI (BIU)           | LL       | t1   |      |      |      |      |      |      |      |      |      |      |      | 53   | 184  | 258  | 167  | 89   | 7    | 160  | 209  | 205  | 177  |      | 34   |      |      |      |      |      |      | 17   | 1.4% | 84%   |      |     |
| BUM     | A+M   | NCO    | NEI (BIU)           | LL       | t2   |      |      |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 17   |       |      |     |
| BUM     | A+M   | CP     | Mexico              | LL       | t1   |      |      |      |      | 3    | 13   | 13   | 13   | 27   | 35   | 68   | 37   | 50   | 70   | 90   | 86   | 65   | 91   | 82   | 93   | 89   | 68   | 106  | 86   | 67   | 72   | 66   | 60   | 68   |      | 18   | 1.4%  | 85%  |     |
| BUM     | A+M   | CP     | Mexico              | LL       | t2   |      |      |      |      | a    | a    | a    | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 18   |       |      |     |
| BUM     | A+M   | CP     | Grenada             | LL       | t1   | 23   | 30   | 36   | 30   | 33   | 52   | 50   | 26   | 47   | 60   | 100  | 87   | 104  | 69   | 72   | 45   | 42   | 33   | 49   | 54   | 32   | 69   | 53   | 32   | 63   | 63   |      |      |      |      | 19   | 1.2%  | 86%  |     |
| BUM     | A+M   | CP     | Grenada             | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 19   |       |      |     |
| BUM     | A+M   | NCO    | Cuba                | LL       | t1   | 151  | 202  | 189  | 204  | 69   | 39   | 85   | 43   | 53   | 12   | 38   | 55   | 56   | 34   | 3    | 4    | 7    | 7    |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 20    | 1.1% | 88% |
| BUM     | A+M   | NCO    | Cuba                | LL       | t2   | -1   | a    | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 20    |      |     |
| BUM     | A+M   | CP     | EU.Portugal         | LL       | t1   |      |      |      |      |      |      |      |      |      |      | 20   | 17   | 4    | 8    | 6    | 31   | 27   | 48   | 105  | 135  | 157  | 106  | 139  | 54   | 53   | 25   | 22   | 45   | 50   | 57   | 74   | 21    | 1.1% | 89% |
| BUM     | A+M   | CP     | EU.Portugal         | LL       | t2   |      |      |      |      | b    |      |      |      |      |      | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 21    |      |     |
| BUM     | A+M   | NCO    | Togo                | GN       | t1   |      |      |      |      |      |      |      |      |      |      | 23   | 73   | 53   | 141  | 103  | 775  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 22    | 1.1% | 90% |
| BUM     | A+M   | NCO    | Togo                | GN       | t2   |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 22    |      |     |
| BUM     | A+M   | CP     | S. Tomé e Príncipe  | TR       | t1   | 19   | 17   | 18   | 21   | 25   | 28   | 33   | 36   | 35   | 33   | 30   | 32   | 32   | 32   | 32   |      | 9    | 21   | 26   | 66   | 68   | 70   | 72   | 74   | 76   | 78   | 81   | 11   | 10   | 13   | 23   | 1.0%  | 91%  |     |
| 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   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 23    |      |     |
| BUM     | A+M   | NCO    | Sta. Lucia          | TR       | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 9    | 18   | 17   | 21   | 53   | 46   | 70   | 72   | 58   | 64   | 119  | 99   | 111  | 53   | 91   | 134  | 24    | 0.9% | 92% |
| BUM</   |       |        |                     |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |     |

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

[illegible]

Table 17. SAI-E stock

|         |       |        |                     | T1 Total | 1710 | 2315 | 1474 | 1776 | 1814 | 1171 | 1231 | 1880 | 1347 | 1363 | 1342 | 1980 | 2805 | 2351 | 2639 | 2612 | 2220 | 1916 | 2577 | 2229 | 2129 | 1853 | 1553 | 1591 | 1339 | 1163 | 1246 | 1422 | 1650 | 1183 |      |       |       |      |      |      |     |
|---------|-------|--------|---------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-----|
| Species | Stock | Status | FlagName            | GearGrp  | DSet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank  | %     | %cum |      |      |     |
| SAI     | ATE   | CP     | Ghana               | GN       | T1   | 465  | 395  | 463  | 297  | 693  | 450  | 353  | 303  | 196  | 351  | 305  | 275  | 568  | 592  | 566  | 521  | 542  | 282  | 420  | 342  | 358  | 417  | 299  | 201  | 220  | 191  | 99   | 238  | 267  | 82   | 1     | 20.0% | 20%  |      |      |     |
| SAI     | ATE   | CP     | Ghana               | GN       | T2   | -1   | -1   | -1   | -1   | -1   | a    | -1   | -1   | b    | ab   | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | ab   | a    | a    | a    | a    | a    | a    | a    | a    | a    | 2    |       |       |      |      |      |     |
| SAI     | ATE   | CP     | Senegal             | HL       | T1   | 445  | 957  | 429  | 692  | 448  | 67   | 135  | 182  | 488  | 228  | 186  | 551  | 767  | 98   | 282  | 219  | 143  | 46   | 189  | 108  | 575  | 439  | 136  | 58   | 117  | 9    | 53   |      | 94   | 3    | 15.1% | 35%   |      |      |      |     |
| SAI     | ATE   | CP     | Senegal             | HL       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | ab   | ab   | ab   | ab   | a    | a    | a    | ab   | ab   | a    | a    |      |      |      |      | 2     |       |      |      |      |     |
| SAI     | ATE   | NCO    | Mixed flags (FR+ES) | PS       | T1   | 432  | 595  | 174  | 150  | 182  | 160  | 128  | 97   | 110  | 138  | 131  | 353  | 400  | 365  | 413  | 336  | 264  | 274  | 205  | 251  | 308  | 265  | 275  | 275  | 275  | 275  |      |      |      |      | 3     | 13.2% | 48%  |      |      |     |
| SAI     | ATE   | NCO    | Mixed flags (FR+ES) | PS       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       | 3     |      |      |      |     |
| SAI     | ATE   | CP     | S. Tomé e Príncipe  | TR       | T1   | 86   | 97   | 84   | 78   | 81   | 88   | 92   | 96   | 139  | 141  | 141  | 136  | 136  | 136  | 136  | 515  | 346  | 292  | 384  | 114  | 119  | 121  | 124  | 127  | 131  | 134  | 312  | 212  | 219  |      |       | 4     | 8.9% | 57%  |      |     |
| SAI     | ATE   | CP     | S. Tomé e Príncipe  | TR       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       | 4     |      |      |      |     |
| SAI     | ATE   | CP     | EU.España           | LL       | T1   | 14   | 0    | 13   | 3    | 42   | 8    | 13   | 42   | 48   | 15   | 20   | 8    | 195  | 245  | 197  | 169  | 202  | 214  | 227  | 239  | 318  | 206  | 197  | 257  | 229  | 302  | 333  | 225  | 233  | 277  | 5     | 8.3%  | 66%  |      |      |     |
| SAI     | ATE   | CP     | EU.España           | LL       | T2   | -1   | -1   | -1   | -1   | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    | a    | b    | b    | b    | b    | b    | b    | b    | b    | b    | b    |       |       | 5    |      |      |     |
| SAI     | ATE   | CP     | Senegal             | TR       | T1   | 99   | 53   | 27   | 141  | 11   | 90   | 29   | 52   | 59   | 24   | 44   | 213  | 155  | 123  | 337  | 343  | 296  | 177  | 512  | 158  | 18   |      | 104  | 25   | b    | b    | b    | b    | 213  | 120  | 246   | 6     | 6.8% | 72%  |      |     |
| SAI     | ATE   | CP     | Senegal             | TR       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | b    | -1   |      |      |      |      |      |      |      |      |       | 6     |      |      |      |     |
| SAI     | ATE   | CP     | Côte d'Ivoire       | GN       | T1   | 55   | 58   | 38   | 69   | 40   | 54   | 66   | 91   | 65   | 35   | 80   | 45   | 47   | 65   | 121  | 73   | 93   | 78   | 52   | 448  | 74   | 24   | 108  | a    | 192  | a    | 80   | 99   | a    | 52   | 38    | 400   | 17   | 7    | 5.1% | 77% |
| SAI     | ATE   | CP     | Côte d'Ivoire       | GN       | T2   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | -1   | -1   | -1   | -1   | a    | a    | ab   | ab   | a    | a    | ab   | ab   | -1    |       |      | 7    |      |     |
| SAI     | ATE   | CP     | Japan               | LL       | T1   | 26   | 31   | 6    | 15   | 27   | 45   | 52   | 47   | 19   | 58   | 16   | 26   | 6    | 20   | 22   | 70   | 50   | 62   | 144  | 199  | 94   | 115  | 143  | 157  | 71   | 59   | 36   | 52   | 45   | 47   | 8     | 3.3%  | 81%  |      |      |     |
| SAI     | ATE   | CP     | Japan               | LL       | T2   | ab   | ab   | ab   | ab   | -1   | -1   | a    | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | a    | a     |       |      | 8    |      |     |
| SAI     | ATE   | NCC    | Chinese Taipei      | LL       | T1   | 3    | 5    | 4    | 80   | 157  | 38   | 58   | 24   | 56   | 44   | 66   | 45   | 50   | 62   | 49   | 15   | 25   | 36   | 109  | 121  | 80   | 21   | 52   | 59   | 42   | 17   | 27   | 24   | 30   | 23   | 9     | 2.6%  | 83%  |      |      |     |
| SAI     | ATE   | NCC    | Chinese Taipei      | LL       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | 15   | -1   | -1   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab    |       |      | 9    |      |     |
| SAI     | ATE   | CP     | Liberia             | GN       | T1   |      |      |      |      |      |      |      | 33   | 85   | 43   | 136  | 122  | 154  | 56   | 133  | 127  | 106  | 122  | 118  | 115  |      |      |      |      |      |      |      |      | 59   | 11   | 10    | 2.6%  | 86%  |      |      |     |
| SAI     | ATE   | CP     | Liberia             | GN       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |       |       | 10   |      |      |     |
| SAI     | ATE   | NCO    | Cuba                | LL       | T1   | 53   | 61   | 184  | 200  | 77   | 83   | 72   | 533  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       | 11    |      |      |      |     |
| SAI     | ATE   | NCO    | Cuba                | LL       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       | 11   | 2.3% | 88%  |     |
| SAI     | ATE   | NCO    | NEI (BIL)           | LL       | T1   |      |      |      |      |      |      |      |      |      |      |      |      | 28   | 269  | 408  | 213  | 55   | 1    | 105  | 43   | 20   | 11   |      |      |      |      |      |      |      |      |       | 12    |      |      |      |     |
| SAI     | ATE   | NCO    | NEI (BIL)           | LL       | T2   |      |      |      |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       | 12    | 2.2% | 91%  |      |     |
| SAI     | ATE   | CP     | Senegal             | GN       | T1   | 8    | 30   | 10   | 14   | 2    | 3    | 3    | 6    | 3    | 5    | 0    | 8    | 28   | 19   | 15   | 1    | 22   | 27   | 28   | 180  | 35   | 45   | 38   | 85   | 21   | 26   | 7    | 373  | 87   | 67   | 13    | 2.2%  | 93%  |      |      |     |
| SAI     | ATE   | CP     | Senegal             | GN       | T2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | -1   | -1   | b    | b    | a    | ab   | b    | b    | -1   | -1    |       |      | 13   |      |     |
| SAI     | ATE   | CP     | EU.Portugal         | LL       | T1   |      |      |      |      |      |      |      |      |      |      |      | 27   | 42   | 9    | 1    | 5    | 10   | 6    | 11   | 137  | 43   | 49   | 112  | 142  | 96   | 70   | 108  | 33   | 41   | 30   | 27    | 123   | 14   | 2.1% | 95%  |     |
| SAI     | ATE   | CP     | EU.Portugal         | LL       | T2   |      |      |      |      |      |      |      |      |      |      |      | -1   | a    | a    | a    | a    | a    | a    | a    | ab   | ab   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab    |       |      | 14   |      |     |
| SAI     | ATE   | NCO    | NEI (ETRO)          | LL       | T1   |      |      |      |      | 27   | 51   | 57   | 69   | 86   | 127  | 120  | 77   | 43   | 3    | 2    | 16   | 7    | 8    | 10   |      |      |      |      |      |      |      |      |      |      |      |       |       | 15   | 1.3% | 96%  |     |
| SAI     | ATE   | NCO    | NEI (ETRO)          | LL       | T2   |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |       |       | 15   |      |      |     |
| SAI     | ATE   | NCO    | Togo                | GN       | T1   |      |      |      |      |      |      |      |      |      |      |      | 9    | 22   | 36   | 23   | 62   | 55   | 95   | 135  | 47   | 31   | 71   |      |      |      |      |      |      |      |      |       | 16    | 1.1% | 97%  |      |     |
| SAI     | ATE   | NCO    | Togo                | GN       | T2   |      |      |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |       |       | 16   |      |      |     |

Table 18. SAI-W stock

|         |       |        |                            |         |      | T1 Total | 1052 | 1235 | 1226 | 1463 | 1414 | 1121 | 1214 | 1143 | 1257 | 1615 | 1580 | 1996 | 1797 | 2060 | 1498 | 1727 | 1839 | 1939 | 1561 | 1733 | 1624 | 1229 | 1335 | 1275 | 985  | 859  | 898  | 1214 | 1080 | 1250  |       |       |      |     |
|---------|-------|--------|----------------------------|---------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|
| Species | Stock | Status | FlagName                   | GearGrp | Dset | 1989     | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank  | %     | %cum  |      |     |
| SAI     | ATW   | CP     | Venezuela                  | LL      | t1   | 108      | 94   | 129  | 170  | 271  | 148  | 139  | 167  | 165  | 333  | 227  | 190  | 186  | 188  | 233  | 387  | 476  | 907  | 363  | 269  | 320  | 409  | 498  | 404  | 262  | 112  | 152  | 246  | 387  | 262  | 1     | 19.4% | 19%   |      |     |
| SAI     | ATW   | CP     | Venezuela                  | LL      | t2   | b        | b    | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | -1   | 1    |       |       |       |      |     |
| SAI     | ATW   | CP     | EU España                  | LL      | t1   | 0        | 0    | 8    | 13   | 13   | 19   | 36   | 5    | 20   | 42   | 7    | 14   | 309  | 414  | 183  | 160  | 89   | 134  | 214  | 361  | 412  | 275  | 190  | 184  | 203  | 244  | 311  | 207  | 454  | 256  | 2     | 11.3% | 31%   |      |     |
| SAI     | ATW   | CP     | EU España                  | LL      | t2   | -1       | -1   | -1   | -1   | b    | b    | -1   | b    | b    | -1   | b    | b    | b    | b    | -1   | b    | b    | -1   | b    | b    | b    | b    | -1   | -1   | -1   | -1   | b    | b    | b    | b    | 2     |       |       |      |     |
| SAI     | ATW   | CP     | Grenada                    | LL      | t1   | 98       | 218  | 316  | 310  | 246  | 151  | 119  | 56   | 83   | 151  | 148  | 164  | 187  | 151  | 171  | 112  | 147  | 159  | 174  | 216  | 183  | 191  | 191  | 191  | 191  | 191  | 191  | 191  | 191  | 3    | 11.1% | 42%   |       |      |     |
| SAI     | ATW   | CP     | Grenada                    | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 3     |       |       |      |     |
| SAI     | ATW   | CP     | Brazil                     | LL      | t1   | 124      | 98   | 65   | 285  | 201  | 60   | 97   | 76   | 69   | 106  | 278  | 531  | 412  | 325  | a    | a    | 208  | 415  | 82   | 59   | 75   | 73   | 70   | 135  | 106  | 76   | 57   | 72   | 59   | 39   | 43    | 4     | 11.0% | 53%  |     |
| SAI     | ATW   | CP     | Brazil                     | LL      | t2   | ab       | a    | a    | ab   | a    | a    | a    | a    | a    | a    | a    | a    | ab   | ab   | ab   | a    | a    | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | a    | a    | a    | 4     |       |       |      |     |
| SAI     | ATW   | CP     | U.S.A.                     | RR      | t1   | 324      | 242  | 341  | 290  | 201  | 179  | 342  | 230  | 349  | 267  | 163  | 76   | 58   | 103  | b    | b    | b    | 0    | 0    | 0    | 0    | 3    | 3    | 0    | 0    | 7    | 3    | 2    | 2    | 3    | 3     | 5     | 7.6%  | 60%  |     |
| SAI     | ATW   | CP     | U.S.A.                     | RR      | t2   | ab       | ab   | ab   | ab   | ab   | ab   | b    | ab   | b    | ab   | b    | b    | 67   | -1   | b    | b    | b    | b    | b    | b    | ab   | b    | b    | b    | b    | b    | b    | b    | b    | b    | 5     |       |       |      |     |
| SAI     | ATW   | CP     | Brazil                     | UN      | t1   |          | 184  |      | 33   | 21   | 41   | 143  | 224  | 67   | 78   | 78   | 67   |      | 222  | 238  | 326  | 0    | 58   | 60   | 193  | 360  | 1    | 0    | 0    |      |      |      |      |      | 0    | 6     | 5.7%  | 66%   |      |     |
| SAI     | ATW   | CP     | Brazil                     | UN      | t2   |          | -1   |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | 6     |       |      |     |
| SAI     | ATW   | CP     | Venezuela                  | GN      | t1   |          |      | 41   | 25   | 60   | 65   | 41   | 88   | 114  | 182  | 140  | 71   | 64   | 88   | 93   | 122  | 131  | 135  | 186  | 113  | 96   | 89   | 92   | 139  | 79   | 98   |      |      |      |      | 7     | 5.6%  | 72%   |      |     |
| SAI     | ATW   | CP     | Venezuela                  | GN      | t2   |          | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | b    | b    | b    | b    | b    | b    | b    | b    | b    | ab   | ab   | ab   | ab   | a    |      |      |      | 7     |       |       |      |     |
| SAI     | ATW   | NCO    | Cuba                       | LL      | t1   | 55       | 126  | 83   | 70   | 42   | 46   | 37   | 37   | 40   | 28   | 196  | 208  | 68   | 32   | 18   | 50   | 72   | 47   | 56   |      |      |      |      |      |      |      |      |      |      | 8    | 3.1%  | 75%   |       |      |     |
| SAI     | ATW   | NCO    | Cuba                       | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 8     |       |       |      |     |
| SAI     | ATW   | NCO    | Dominican Republic         | LL      | t1   |          |      |      |      |      |      |      |      |      |      | 101  | 89   | 27   | 67   | 81   | 260  | 91   | 144  | 165  | 133  | 147  |      |      |      |      |      |      |      |      | 9    | 3.1%  | 78%   |       |      |     |
| SAI     | ATW   | NCO    | Dominican Republic         | LL      | t2   |          |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 9     |       |       |      |     |
| SAI     | ATW   | CP     | Barbados                   | LL      | t1   | 69       | 45   | 29   | 42   | 50   | 46   | 74   | 25   | 71   | 58   | 44   | 44   | 42   | 26   | 27   | 26   | 42   | 58   | 42   |      |      | 16   | 29   | 25   | 35   | 37   | 53   | 45   | 34   | 19   | 10    | 2.7%  | 81%   |      |     |
| SAI     | ATW   | CP     | Barbados                   | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | 10    |       |       |      |     |
| SAI     | ATW   | CP     | Mexico                     | LL      | t1   |          |      |      |      | 2    | 19   | 19   | 10   | 9    | 65   | 40   | 118  | 36   | 34   | 45   | 51   | 55   | 42   | 47   | 45   | 48   | 34   | 32   | 51   | 63   | 42   | 35   | 47   | 51   | 24   | 11    | 2.5%  | 83%   |      |     |
| SAI     | ATW   | CP     | Mexico                     | LL      | t2   |          |      | a    | a    |      | -1   | a    | a    | a    | a    | a    | a    | -1   | a    | a    | a    | a    | abc  | a    | a    | a    | a    | a    | a    | a    | a    | ab   | ab   | ab   | ab   | a     | 11    |       |      |     |
| SAI     | ATW   | NCO    | NEI (BIL)                  | LL      | t1   |          |      |      |      |      |      |      |      |      |      | 297  | 268  |      |      |      |      |      | 68   | 81   | 252  | 17   | 21   |      |      |      |      |      |      |      | 12   | 2.4%  | 86%   |       |      |     |
| SAI     | ATW   | NCO    | NEI (BIL)                  | LL      | t2   |          |      |      |      |      |      |      |      |      |      | -1   | -1   |      |      |      |      | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      | 12   |       |       |       |      |     |
| SAI     | ATW   | CP     | Panama                     | LL      | t1   |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 13    | 2.1%  | 88%   |      |     |
| SAI     | ATW   | CP     | Panama                     | LL      | t2   |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 13    |       |       |      |     |
| SAI     | ATW   | CP     | U.S.A.                     | LL      | t1   | 57       | 62   | a    | a    | 67   | 44   | 65   | 29   | a    | 30   | 69   | 57   | 27   | 72   | 45   | 11   | 7    | 5    | 7    | 3    | 5    | 7    | 9    | 10   | 4    | 10   | 18   | 11   | 11   | 6    | 7     | 6     | 14    | 1.8% | 89% |
| SAI     | ATW   | CP     | U.S.A.                     | LL      | t2   | a        | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | ab   | a    | a    | a    | a    | a    | a    | a    | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab    | 14    |       |      |     |
| SAI     | ATW   | NCC    | Chinese Taipei             | LL      | t1   | 86       | 42   | 37   | 17   | 112  | 117  | 19   | 19   | 2    | 65   | 17   | 11   | 33   | 31   | 13   | 8    | 21   | 5    | 14   | 10   | 11   | 6    | 8    | 27   | 6    | 3    | 6    | 5    | 5    | 6    | 15    | 1.8%  | 91%   |      |     |
| SAI     | ATW   | NCC    | Chinese Taipei             | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | -1   | -1   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab    | 15    |       |      |     |
| SAI     | ATW   | CP     | Trinidad and Tobago        | LL      | t1   | 9        | 4    | 1    | 2    | 1    | 2    | 1    | 4    | 10   | 25   | 37   | 3    | 7    | 6    | 7    | 10   | 9    | 17   | 13   | 32   | 16   | 16   | 32   | 60   | 28   | 23   | 51   | 48   | 58   | 46   | 16    | 1.4%  | 93%   |      |     |
| SAI     | ATW   | CP     | Trinidad and Tobago        | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 16    |       |       |      |     |
| SAI     | ATW   | CP     | St. Vincent and Grenadines | LL      | t1   |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 17    | 1.3%  | 94%   |      |     |
| SAI     | ATW   | CP     | St. Vincent and Grenadines | LL      | t2   |          |      |      |      |      |      |      |      |      |      |      |      | -1   | a    | a    | a    | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 17    |       |       |      |     |
| SAI     | ATW   | NCO    | Dominican Republic         | UN      | t1   | 44       | 40   | 31   | 98   | 50   | 90   | 40   | 40   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 18    | 1.0%  | 95%   |      |     |
| SAI     | ATW   | NCO    | Dominican Republic         | UN      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       | 18    |       |      |     |
| SAI     | ATW   | CP     | EU.Portugal                | LL      | t1   |          |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 19    | 0.9%  | 96%   |      |     |
| SAI     | ATW   | CP     | EU.Portugal                | LL      | t2   |          |      |      |      |      |      |      |      |      |      | a    | a    |      |      |      | a    | a    | a    | a    | ab   | a    | a    | ab   | ab   | ab   | ab   |      |      | ab   | ab   | a     | 19    |       |      |     |

Table 19. SPF-E stock

[illegible]

Table 20. SPF-W stock

[illegible]

Table 21. BSH-N region

[illegible]



Table 22. BSH-S region

[illegible]

Table 23. POR-N region

|         |       |        |                |         |      | T1 Total | 1088 | 1374 | 2054 | 2658 | 1952 | 2770 | 2173 | 1640 | 1877 | 1516 | 1471 | 1555 | 1081 | 892  | 690  | 842  | 605  | 519  | 522  | 527  | 421  | 119  | 68   | 111  | 156  | 28   | 56   | 20   | 29   | 12   |       |      |     |
|---------|-------|--------|----------------|---------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-----|
| Species | Stock | Status | FlagName       | GearGrp | Dset | 1989     | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum |     |
| POR     | ATN   | CP     | Canada         | LL      | t1   | 73       | 78   | 329  | 813  | 919  | 1575 | 1351 | 1045 | 1322 | 1055 | 956  | 899  | 491  | 223  | 130  | 220  | 191  | 184  | 83   | 115  | 50   | 65   | 22   | 29   | 16   | 8    | 3    | 2    | 2    | 1    | 1    | 42.5% | 43%  |     |
| POR     | ATN   | CP     | Canada         | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | -1   | a    | a    | a    | a    | -1   | a    | a    | a    | abc  | ab   | ab   | ab   | ab   | ab   | a    | ab   | ab   | 1    |       |      |     |
| POR     | ATN   | CP     | EU.France      | UN      | t1   | 341      | 551  | 300  | 496  | 633  | 820  | 565  | 267  | 315  | 219  | 240  | 410  | 361  | 461  | 303  | 194  | 276  | 194  | 83   | 83   | 153  |      |      |      |      |      |      |      |      |      | 2    | 25.2% | 68%  |     |
| POR     | ATN   | CP     | EU.France      | UN      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 0    |      |      |       |      |     |
| POR     | ATN   | NCO    | Faroe Islands  | LL      | t1   | 477      | 550  | 1189 | 1149 | 165  | 48   | 44   | 8    | 9    | 7    | 10   | 13   | 8    | 10   | 14   | 5    | 19   | 21   |      |      |      |      |      |      |      |      |      |      |      |      | 3    | 13.0% | 81%  |     |
| POR     | ATN   | NCO    | Faroe Islands  | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |       |      |     |
| POR     | ATN   | CP     | EU.Denmark     | UN      | t1   | 33       | 46   | 85   | 80   | 91   | 93   | 86   | 72   | 69   | 85   | 107  | 73   | 76   | 42   | 21   | 20   | 4    | 3    | 2    | 1    |      | 0    |      | 2    |      |      |      |      |      |      | 4    | 3.8%  | 84%  |     |
| POR     | ATN   | CP     | EU.Denmark     | UN      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    |      | a    |      |      |      |      |      |      |      | 4    |       |      |     |
| POR     | ATN   | CP     | Japan          | LL      | t1   | 58       | 63   | 62   | 54   | 35   | 29   | 15   | 15   | 13   | 19   | 41   | 47   | 52   | 21   | 7    | 20   | 27   | 18   | 17   | 10   | 13   | 13   | 14   | 49   | 98   | 0    | 0    | 2    |      |      | 5    | 2.8%  | 87%  |     |
| POR     | ATN   | CP     | Japan          | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | ab   | ab   | ab   | a    | a    | a    | a    | 0    | a    |      |      |       |      |     |
| POR     | ATN   | CP     | EU.France      | LL      | t1   |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 185  |      |      | 271  | 184  | 46   |      | 1    | 0    |      |      |      |      |      | 1    |      | 6     | 2.4% | 90% |
| POR     | ATN   | CP     | EU.France      | LL      | t2   |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      | -1   |      |      | -1   | -1   | -1   |      | -1   | -1   |      |      |      |      |      |      |      |       |      |     |
| POR     | ATN   | CP     | EU.España      | LL      | t1   | 42       | 26   | 47   | 15   | 21   | 52   | 19   | 41   | 25   | 25   | 18   | 13   | 24   | 54   | 27   | 11   | 14   | 34   | 8    | 41   | 77   |      | 0    |      |      |      |      |      |      |      | 7    | 2.2%  | 92%  |     |
| POR     | ATN   | CP     | EU.España      | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       |      |     |
| POR     | ATN   | CP     | Norway         | UN      | t1   | 25       | 43   | 32   | 41   | 24   | 24   | 26   | 28   | 17   | 27   | 32   | 22   |      |      | 19   |      |      |      | 1    | 8    | 9    | 6    | 12   | 11   | 17   |      |      |      |      |      | 8    | 1.5%  | 93%  |     |
| POR     | ATN   | CP     | Norway         | UN      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       |      |     |
| POR     | ATN   | CP     | U.S.A.         | LL      | t1   | 1        | 1    | 4    | 4    | 50   | 108  | 35   | 78   | 56   | 9    | 0    | 1    | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 3    | 2    | 0    |      |      |      |      |      | 9    | 1.4%  | 95%  |     |
| POR     | ATN   | CP     | U.S.A.         | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | b    | b    | b    | b    | b    | b    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   |       |      |     |
| POR     | ATN   | CP     | EU.Portugal    | LL      | t1   | 2        | 2    | 1    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 7    | 4    | 10   | 101  | 50   | 14   | 6    | 0    | 3    | 17   | 7    | 0    | 0    |      |      |      |      |      | 10   | 0.8%  | 96%  |     |
| POR     | ATN   | CP     | EU.Portugal    | LL      | t2   | -1       | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    |      |       |      |     |
| POR     | ATN   | NCC    | Chinese Taipei | LL      | t1   | 3        | 0    |      |      | 4    | 10   | 12   | 27   | 18   | 13   | 27   | 19   | 18   | 22   | 12   | 8    | 7    | 5    | 3    |      |      | 0    |      |      |      |      |      |      |      |      | 11   | 0.7%  | 96%  |     |
| POR     | ATN   | NCC    | Chinese Taipei | LL      | t2   | -1       | -1   |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |       |      |     |
| POR     | ATN   | CP     | Canada         | GN      | t1   |          |      |      |      |      |      | 2    | 4    | 8    | 11   | 6    | 2    | 7    | 12   | 11   | 10   | 10   | 6    | 10   | 8    | 11   | 18   | 7    | 2    | 0    | 1    | 1    | 0    | 0    | 0    | 12   | 0.5%  | 97%  |     |
| POR     | ATN   | CP     | Canada         | GN      | t2   |          |      |      |      |      |      | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | ac   | a    | a    | a    | a    | a    | a    | a    | a    | a    |       |      |     |

Table 24. POR-S region

|         |       |        | T1 Total           | 301     | 301  | 239  | 360  | 207  | 279  | 170  | 311  | 178  | 262  | 178  | 214  | 121  | 182  | 196  | 109  | 133  | 122  | 149  | 85   | 62   | 16   | 21   | 37   | 29   | 38   | 4    | 1    | 0    | 4    |      |      |      |      |       |      |
|---------|-------|--------|--------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
| Species | Stock | Status | FlagName           | GearGrp | Dset | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum |
| POR     | ATS   | NCC    | Chinese Taipei     | LL      | t1   | 108  | 142  | 73   | 192  | 85   | 146  | 57   | 168  | 65   | 170  | 73   | 84   | 29   | 93   | 95   | 39   | 43   | 47   | 99   |      |      |      |      |      |      |      |      |      |      |      |      | 1    | 42.0% | 42%  |
| POR     | ATS   | NCC    | Chinese Taipei     | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      | a    | -1   | a    | a    | -1   | -1   |      | -1   | -1   |      | 1    |       |      |
| POR     | ATS   | CP     | Brazil             | LL      | t1   | 102  | 95   | 81   | 128  | 60   | 32   | 49   | 33   | 36   | 38   | 58   | 60   | 67   | 74   | 49   | 37   | 52   | 32   | 23   |      |      |      |      |      |      |      |      |      |      |      |      | 2    | 25.7% | 68%  |
| POR     | ATS   | CP     | Brazil             | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | -1   | -1   | -1   | -1   | a    |      |      |      |      |      |      |      |      |      |      |      |      | 2    |       |      |
| POR     | ATS   | CP     | Japan              | LL      | t1   | 15   | 37   | 48   | 12   | 13   | 14   | 6    | 9    | 14   | 1    | 1    | 7    | 4    | 3    | 2    | 11   | 3    | 3    | 9    | 41   |      |      | 8    | 7    | 25   | 15   | 13   | 4    | 1    | 0    |      | 3    | 8.3%  | 76%  |
| POR     | ATS   | CP     | Japan              | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    |      | 3    |       |      |
| POR     | ATS   | CP     | EU.España          | LL      | t1   |      | 1    | 13   | 12   | 32   | 35   | 43   | 28   | 27   | 2    | 14   | 7    | 14   | 2    | 9    | 4    | 0    | 3    | 5    | 4    | 13   |      |      |      |      |      |      |      |      |      |      | 4    | 6.2%  | 82%  |
| POR     | ATS   | CP     | EU.España          | LL      | t2   |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      |      | 4    |       |      |
| POR     | ATS   | NCO    | NEI (Flag related) | LL      | t1   | 50   | 13   | 8    | 14   | 10   | 22   | 8    | 46   | 23   | 37   | 11   | 15   | 3    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5    | 6.0%  | 88%  |
| POR     | ATS   | NCO    | NEI (Flag related) | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      | 5    |       |      |
| POR     | ATS   | CP     | Uruguay            | LL      | t1   |      |      |      |      |      |      | 3    |      | 5    | 14   | 3    | 4    |      | 8    | 34   | 8    | 28   | 34   | 3    | 40   | 14   |      | 6    | 12   | 12   |      |      |      |      |      |      | 6    | 5.3%  | 93%  |
| POR     | ATS   | CP     | Uruguay            | LL      | t2   |      |      |      |      |      |      | -1   |      | -1   | -1   | -1   | -1   |      | -1   | -1   | -1   | -1   | a    | a    | b    | a    | -1   | ab   | ab   | b    |      |      |      |      |      |      | 6    |       |      |
| POR     | ATS   | CP     | Panama             | LL      | t1   | 7    | 8    | 14   | 2    | 6    | 24   | 4    | 21   | 3    |      |      | 0    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 7    | 2.1%  | 96%  |
| POR     | ATS   | CP     | Panama             | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 7    |       |      |
| POR     | ATS   | CP     | China PR           | LL      | t1   |      |      |      |      | 0    | 1    | 0    |      |      |      | 13   | 36   | 4    |      | 5    | 4    | 2    | 2    | 6    |      |      |      |      |      |      |      |      |      |      |      |      | 8    | 1.7%  | 97%  |
| POR     | ATS   | CP     | China PR           | LL      | t2   |      |      |      |      | -1   | -1   | -1   |      |      |      | -1   | -1   | -1   |      | -    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 8    |       |      |
| POR     | ATS   | CP     | Korea Rep.         | LL      | t1   | 19   | 3    | 3    | 1    | 1    | 2    | 1    | 6    | 1    |      |      |      |      |      |      |      |      |      |      |      | 3    |      |      |      |      |      |      |      |      |      | 4    | 9    | 1.4%  | 99%  |
| POR     | ATS   | CP     | Korea Rep.         | LL      | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |      |      |      |      |      |      |      |      |      | -1   |      |      |      | abc  |      |      |      |      |      | ab   | 9    |      |       |      |
| POR     | ATS   | CP     | Ghana              | PS      | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10   | 0.6%  | 99%  |
| POR     | ATS   | CP     | Ghana              | PS      | t2   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10   |       |      |
| POR     | ATS   | CP     | EU.Portugal        | LL      | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    | 4    | 2    |      | 1    | 2    |      |      |      |      |      |      |      |      |      |      |      | 11   | 0.3%  | 99%  |
| POR     | ATS   | CP     | EU.Portugal        | LL      | t2   |      |      |      |      |      |      |      |      |      | -1   |      |      |      | -1   | -1   | a    | a    | a    | -1   | -1   |      |      |      |      |      |      |      |      |      |      |      | 11   |       |      |

Table 25. SMA-N region

|         |       |        |                | T1 Total |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |     |  |  |
|---------|-------|--------|----------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|-----|--|--|
|         |       |        |                | 2170     | 2389 | 2296 | 3233 | 4114 | 3659 | 5306 | 5306 | 3534 | 3845 | 2858 | 2587 | 2677 | 3426 | 3987 | 4000 | 3695 | 3574 | 4158 | 3800 | 4541 | 4767 | 3718 | 4431 | 3595 | 2852 | 2964 | 3347 | 3116 | 2388 |      |      |       |       |      |     |  |  |
| Species | Stock | Status | FlagName       | GearGrp  | DSet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank  | %     | %cum |     |  |  |
| SMA     | ATN   | CP     | EU España      | LL       | t1   | 1079 | 1537 | 1390 | 2145 | 1964 | 2164 | 2209 | 3294 | 2416 | 2223 | 2051 | 1561 | 1684 | 2047 | 2068 | 2088 | 1751 | 1918 | 1814 | 1895 | 2216 | 2091 | 1667 | 2308 | 1509 | 1481 | 1362 | 1574 | 1784 | 1165 | 1     | 53.1% | 53%  |     |  |  |
| SMA     | ATN   | CP     | EU España      | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 1     |       |      |     |  |  |
| SMA     | ATN   | CP     | EU Portugal    | LL       | t1   |      | 193  | 314  | 220  | 796  | 649  | 657  | 691  | 354  | 307  | 327  | 318  | 378  | 415  | 1249 | 399  | 1109 | 951  | 1540 | 1033 | 1169 | 1432 | 1023 | 817  | 209  | 213  | 257  | 270  | 268  | 2    | 17.5% | 71%   |      |     |  |  |
| SMA     | ATN   | CP     | EU Portugal    | LL       | t2   |      | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 2     |       |      |     |  |  |
| SMA     | ATN   | CP     | U.S.A.         | RR       | t1   | 670  | 268  | 210  | 250  | 667  | 317  | 1422 | 232  | 164  | 148  | 69   | 290  | 214  | 248  | 0    | 336  | 282  | 257  | 158  | 156  | 163  | 168  | 178  | 229  | 219  | 201  | 163  | 158  | 189  | 125  | 3     | 7.7%  | 78%  |     |  |  |
| SMA     | ATN   | CP     | U.S.A.         | RR       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 3     |       |      |     |  |  |
| SMA     | ATN   | CP     | Maroc          | LL       | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 147  | 169  | 215  | 220  | 151  | 283  | 476  | 636  | 390  | 380  | 616  | 580  | 807  | 1000 | 320  | 423  | 4     | 6.4%  | 85%  |     |  |  |
| SMA     | ATN   | CP     | Maroc          | LL       | t2   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | 4     |       |      |     |  |  |
| SMA     | ATN   | CP     | Japan          | LL       | t1   | 207  | 221  | 157  | 318  | 425  | 214  | 592  | 790  | 258  | 892  | 120  | 138  | 105  | 438  | 267  | 572  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       | 5     | 6.2% | 91% |  |  |
| SMA     | ATN   | CP     | Japan          | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | 5     |      |     |  |  |
| SMA     | ATN   | CP     | U.S.A.         | LL       | t1   | 188  | 146  | 176  | 273  | 249  | 269  | 259  | 166  | 179  | 146  | 124  | 123  | 135  | 123  | 105  | 140  | 138  | 95   | 167  | 149  | 171  | 168  | 160  | 152  | 140  | 155  | 100  | 108  | 112  | 41   | 6     | 4.4%  | 95%  |     |  |  |
| SMA     | ATN   | CP     | U.S.A.         | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | 6     |      |     |  |  |
| SMA     | ATN   | CP     | Canada         | LL       | t1   |      |      |      |      |      |      | 93   | 56   | 99   | 55   | 54   | 59   | 60   | 61   | 63   | 69   | 74   | 64   | 64   | 39   | 50   | 39   | 37   | 28   | 35   | 53   | 84   | 82   | 109  | 54   | 7     | 1.4%  | 97%  |     |  |  |
| SMA     | ATN   | CP     | Canada         | LL       | t2   |      |      |      |      |      |      | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | abc  | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab    | 7     |      |     |  |  |
| SMA     | ATN   | NCC    | Chinese Taipei | LL       | t1   | 2    | 9    | 39   | 16   | 9    | 29   | 32   | 45   | 42   | 47   | 75   | 56   | 47   | 53   | 37   | 70   | 68   | 40   | 6    | 23   | 11   | 14   | 13   | 15   | 8    | 4    | 15   | 8    | 1    | 3    | 8     | 0.8%  | 97%  |     |  |  |
| SMA     | ATN   | NCC    | Chinese Taipei | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1    | 8     |      |     |  |  |
| SMA     | ATN   | CP     | Maroc          | PS       | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 9     | 0.6%  | 98%  |     |  |  |
| SMA     | ATN   | CP     | Maroc          | PS       | t2   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | -1    | 9     |      |     |  |  |
| SMA     | ATN   | CP     | Belize         | LL       | t1   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10    | 0.3%  | 98%  |     |  |  |
| SMA     | ATN   | CP     | Belize         | LL       | t2   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10    |       |      |     |  |  |

Table 26. SMA-S region

|         |       |        |                | T1 Total | 1546 | 1255 | 1062 | 1183 | 1743 | 2182 | 3100 | 2395 | 2187 | 2008 | 1606 | 2588 | 2107 | 2103 | 3235 | 2526 | 3259 | 3036 | 2786 | 1881 | 2063 | 2486 | 3258 | 2905 | 2183 | 3274 | 2774 | 2765 | 2786 | 3159 |      |      |       |      |       |     |
|---------|-------|--------|----------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|-----|
| Species | Stock | Status | FlagName       | GearGrp  | Dset | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Rank | %     | %cum |       |     |
| SMA     | ATS   | CP     | EU.España      | LL       | t1   | 809  | 552  | 327  | 421  | 772  | 552  | 1084 | 1482 | 1356 | 984  | 861  | 1090 | 1235 | 811  | 1158 | 703  | 584  | 664  | 654  | 628  | 922  | 1192 | 1535 | 1207 | 1083 | 1077 | 862  | 882  | 1049 | 1044 | 1    | 38.6% | 39%  |       |     |
| SMA     | ATS   | CP     | EU.España      | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | b    | -1   | b    | b    | b    | b    | b    | b    | b    | b    | 1    |       |      |       |     |
| SMA     | ATS   | CP     | Namibia        | LL       | t1   |      |      |      |      |      |      |      |      |      |      | 1    |      |      | 459  | 375  | 509  | 1415 | 1243 | 1002 | 295  | 23   | 306  | 328  | 554  | 9    | 950  | 661  | 799  | 194  | 980  | 2    | 14.1% | 53%  |       |     |
| SMA     | ATS   | CP     | Namibia        | LL       | t2   |      |      |      |      |      |      |      |      |      |      | -1   |      |      | -1   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | a    | a    | a    | a    | ab   | b    | 2    |      |       |      |       |     |
| SMA     | ATS   | CP     | Japan          | LL       | t1   | 618  | 538  | 506  | 460  | 701  | 1369 | 1617 | 514  | 244  | 267  | 151  | 264  | 56   | 133  | 118  | 398  |      |      |      |      | 72   | 115  | 108  | 103  | 132  | 291  | 114  | 182  | 109  | 77   | 96   | 93    | 3    | 13.2% | 66% |
| SMA     | ATS   | CP     | Japan          | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | ab   | ab   | ab   | a    | a    | a    | a    | a    | a    | a    | 3    |       |      |       |     |
| SMA     | ATS   | CP     | EU.Portugal    | LL       | t1   |      |      |      |      |      |      |      |      |      |      | 92   | 94   | 165  | 116  | 119  | 388  | 140  | 56   | 625  | 13   | 242  |      |      |      |      |      |      |      |      |      | 4    | 8.8%  | 75%  |       |     |
| SMA     | ATS   | CP     | EU.Portugal    | LL       | t2   |      |      |      |      |      |      |      |      |      |      | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 4    |       |      |       |     |
| SMA     | ATS   | CP     | Brazil         | LL       | t1   | 71   | 103  | 79   | 158  | 122  | 95   | 119  | 83   | 190  | 233  | 27   | 219  | a    | 409  | 226  | 283  | 177  | 426  | 183  | 152  | 121  | 92   | 128  | 179  | 193  | 276  | 256  | 172  | 124  | 275  | 396  | 5     | 7.8% | 83%   |     |
| SMA     | ATS   | CP     | Brazil         | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | -1   | ab   | a    | a    | a    | a    | a    | ab   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 5     |      |       |     |
| SMA     | ATS   | CP     | South Africa   | LL       | t1   |      |      |      | 64   | 43   | 23   | 46   | 36   | 29   | 168  | 66   | 103  | 68   | 12   | 115  | 101  | 111  |      | 86   | 224  | 137  | 146  | 152  | 218  | 108  | 250  | 476  | 613  | 339  | 305  | 244  | 6     | 6.0% | 89%   |     |
| SMA     | ATS   | CP     | South Africa   | LL       | t2   |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | ab   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | a    | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 6     |      |       |     |
| SMA     | ATS   | NCC    | Chinese Taipei | LL       | t1   | 29   | 36   | 80   | 44   | 31   | 65   | 87   | 117  | 139  | 130  | 198  | 162  | 120  | 146  | 83   | 180  | 226  | 166  | 147  | 124  | 117  | 144  | 204  | 158  | 157  | 161  | 154  | 95   | 88   | 66   | 7    | 5.1%  | 94%  |       |     |
| SMA     | ATS   | NCC    | Chinese Taipei | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | ab   | 7     |      |       |     |
| SMA     | ATS   | CP     | China PR       | LL       | t1   |      |      |      | 34   | 45   | 23   | 27   | 19   | 74   | 126  | 305  | 22   | 208  | 260  | 68   | 45   | 70   |      | 77   | 6    | 24   | 32   | 29   | 8    | 9    | 9    | 5    | 3    | 1    |      | 8    | 2.1%  | 96%  |       |     |
| SMA     | ATS   | CP     | China PR       | LL       | t2   |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | a    | 8     |      |       |     |
| SMA     | ATS   | CP     | Uruguay        | LL       | t1   | 19   | 26   | 13   | 20   | 28   | 12   | 17   | 26   | 20   | 23   | 21   | 35   | 40   | 38   | 188  | 249  | 146  | 68   | 36   | 41   | 106  | 23   | 76   | 36   | 1    |      |      |      |      |      | 9    | 1.8%  | 98%  |       |     |
| SMA     | ATS   | CP     | Uruguay        | LL       | t2   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | ab   | ab   | ab   | a    | -1   | ab   | ab   | ab   |      |      |      |      |      | 9     |      |       |     |
| SMA     | ATS   | CP     | Côte d'Ivoire  | GN       | t1   |      |      |      | 9    | 13   | 10   | 20   | 13   | 15   | 23   | 10   | 10   | 9    | 15   | 15   | 30   | 15   | 14   | 16   | 25   |      |      |      | 19   | 33   | 19   | 11   | 13   | 161  | 4    | 10   | 0.7%  | 98%  |       |     |
| SMA     | ATS   | CP     | Côte d'Ivoire  | GN       | t2   |      |      |      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | b    | b    |      | -1   | -1   | -1   | a    |      | a    | a    | ab   | a    | a    | b    |      | -1   | 10    |      |       |     |

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

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

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

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

Appendix 3: Current summary of CPC responses 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.

|                                 | China                          | EU,Malta       | EU,Cyprus                      | Maroc          | Belize                                                         | Canada         | Curacao   | EU,France   | Turkey              | EU,Portugal Madeira                                              | EU, Portugal                   | Ghana          | Korea                          | El Salvador    | Chinese Taipei | Tunisia                        | Turkey                         | USA                               | EU,Italy                       | Cote D'Ivoire    | EU,Croatia                         | Guatemala                | Mexico                         | Russia                                 | Japan |
|---------------------------------|--------------------------------|----------------|--------------------------------|----------------|----------------------------------------------------------------|----------------|-----------|-------------|---------------------|------------------------------------------------------------------|--------------------------------|----------------|--------------------------------|----------------|----------------|--------------------------------|--------------------------------|-----------------------------------|--------------------------------|------------------|------------------------------------|--------------------------|--------------------------------|----------------------------------------|-------|
| Start year                      | 2009                           | 2008           | 2006                           | 2018           | 2018                                                           | 2018           | 2018      | 2018        | 2012                | 2018                                                             | 2018                           | 2006           | 2002                           | 2018           | 2018           | 2012                           | 2018                           | 1992                              | 2016                           | 2012             | 2011                               | 2018                     | 1993                           | 2006                                   | 1992  |
| Fisheries monitored (1 or more) | LL                             | LL             | LL                             | LL,TP          | LL, PS                                                         | LL, RR, GN, TW | PS        | PS          | LL                  | BB, HL                                                           | LL, TP                         | PS, BB         | LL                             | PS             | LL             | PS,LL                          | LL                             | LL                                | LL, TP                         | PS               | Towing                             | PS                       | LL                             | Trawl, various                         | LL    |
| Coverage                        |                                |                |                                |                |                                                                |                |           |             |                     |                                                                  |                                |                |                                |                |                |                                |                                |                                   |                                |                  |                                    |                          |                                |                                        |       |
| Percent Coverage                | 10.80%                         | 20.00%         | 2.00%                          | #####          | 10%                                                            | 7.9, 0.3       | 100       | 81          | 25                  | 11                                                               | 7.1                            | 67             | 22%                            | 100            | 10             | 10                             | 25                             | 8 -                               | 50                             | 100              | 100                                | 100                      | 120                            | 7                                      |       |
| Coverage based on               | No. of hooks                   | No. Of Vessels | No. Of annual trips            | No. Of Vessels | No. Of Vessels                                                 | No. of sets    | No. Trips | No. of sets | No. Of annual trips | No. Of Vessels                                                   | No. of sets                    | No. of vessels | Other                          | No. of vessels | Days at sea    | No. of vessels                 | No. of annual trips            | No. of sets predefined strata per | No. of vessels                 | No. Annual Trips | No. of vessels                     | No. of vessels           | No. Trips                      | No. Trip                               | Other |
| Sample scheme INFO:             |                                |                |                                |                |                                                                |                |           |             |                     |                                                                  |                                |                |                                |                |                |                                |                                |                                   |                                |                  |                                    |                          |                                |                                        |       |
| Vessel selection modality       | Combination Random + Voluntary | Random         | Combination Random + Voluntary | random         | Combination Random + Voluntary                                 | Random         | Voluntary | Random      | No. Of annual trips | Voluntary                                                        | Combination Random + Voluntary | Voluntary      | Combination Random + Voluntary | Voluntary      | Random         | Combination Random + Voluntary | Voluntary                      | Random                            | Combination Random + Voluntary | Voluntary        | other                              | other                    | Combination Random + Voluntary | Random                                 |       |
| Nº vessels observed per year    | 5                              | 1              | 6                              | 1,12           | 4                                                              | 17             | 5         | 10          | 1                   | 3                                                                | 10                             | 25             | 6                              | 4              | 23             | 5                              | 1                              | other                             | 35                             | 1                | None                               | 2                        |                                | 3                                      | 30    |
| Notes                           |                                |                |                                |                | 2018 total, has changed with observer coverage percentage goal |                |           |             |                     | Combination of random + voluntary for LL; Complete (100%) for TP |                                |                | Combination Random + Voluntary |                |                |                                | 30 vessels per quarter average |                                   |                                |                  | all two vessels have 100% coverage | all vessels are observed |                                | sampling based on number of operations |       |
| Geographical regions:           |                                |                |                                |                |                                                                |                |           |             |                     |                                                                  |                                |                |                                |                |                |                                |                                |                                   |                                |                  |                                    |                          |                                |                                        |       |
| AT-NE (Atl-Northeast)           | YES                            | NO             |                                | Yes            | No                                                             | No             | Yes       |             | Yes                 | Yes                                                              | No                             | No             | Yes                            | Yes            | Yes            | No                             | No                             | No                                | No                             |                  |                                    |                          | Yes                            | yes                                    |       |
| AT-NW (Atl-Northwest)           | YES                            | NO             |                                | Yes            | Yes                                                            | No             | No        | No          |                     | No                                                               | No                             | Yes            | Yes                            | Yes            | Yes            | No                             | No                             | Yes                               | No                             |                  |                                    | Yes                      | no                             | yes                                    |       |
| AT-SE                           | YES                            | NO             |                                | Yes            | Yes                                                            | Yes            | Yes       |             |                     | Yes                                                              | Yes                            | Yes            | Yes                            | Yes            | Yes            | No                             | No                             | No                                | No                             |                  |                                    | Yes                      | no                             | yes                                    |       |
| AT-SW                           | YES                            | NO             |                                | Yes            | No                                                             | No             | No        | No          |                     | No                                                               | No                             | No             | No                             | Yes            | Yes            | No                             | No                             | No                                | No                             |                  |                                    |                          |                                | no                                     | yes   |
| MD (Med sea)                    | NO                             | Yes            | YES                            | No             | No                                                             | No             | No        | Yes         |                     | No                                                               | No                             | No             | No                             | No             | No             | yes                            | Yes                            | No                                | Yes                            |                  |                                    |                          |                                | no                                     | no    |