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PROPOSAL IATTC-103 E-3

SUBMITTED BY COSTA RICA, BELIZE, EL SALVADOR,
GUATEMALA, HONDURAS, NICARAGUA AND PANAMA

CONSERVATION MEASURES FOR TROPICAL TUNAS IN THE
EASTERN PACIFIC OCEAN DURING ~~2025-2026~~ 2026-2028

The Inter-American Tropical Tuna Commission (IATTC), gathered in Panama City, Panama, on the occasion of its 102nd Meeting:

Aware of its responsibility for the scientific study of the tunas and tuna-like species in its Convention Area and for formulating recommendations to its Members and Cooperating Non-Members (CPCs) with regard to these resources;

Recognizing that the potential production from the resource can be reduced if fishing effort is excessive;

~~*Concerned that the capacity of the purse-seine fleets fishing for tunas in the Convention Area continues to increase;*~~

~~*Taking into account the best scientific information available, reflected in the IATTC staff's recommendations, and the precautionary approach; and*~~

Recognizing that, according to the latest scientific assessments, the three tropical tuna stocks (yellowfin, bigeye and skipjack) are healthy and have low to moderate (bigeye only) probabilities (risks) of exceeding the reference points;

Recognizing that, under the current Harvest Control Rule, if the Commission chooses to seek a fishing mortality rate that corresponds to the Maximum Sustainable Yield (MSY), this would recommend a reduction in the purse-seine fishery from 72 to 8 days;

Aware that any adjustment to management measures should apply the precautionary approach, especially while a management procedure for tropical tunas is being completed; and

Recalling the need to take into account the special circumstances and requirements of the developing countries of the region, particularly the coastal countries, as recognized in the Antigua Convention, in particular in its Preamble and its Article XXIII, paragraph 1;

Agrees:

To apply in the Convention Area the conservation and management measures for tropical tuna set out below, and to request that the staff of the IATTC monitor the fishing activities of the respective CPCs' flag vessels relative to this commitment, and also report on such activities at each annual meeting of the Commission;

1. These measures are applicable from 00:00 hours on 1 January ~~2025-2026~~ to 24:00 hours on 31 December ~~2026~~2028, except for the second closure period referred to in paragraph 3, which extends until 24:00 hours on 19 January ~~2027~~2029, and except for the additional days of closure

that would be added pursuant to paragraph 5 to that second closure period. These measures are applicable to all CPCs' purse-seine vessels of IATTC capacity classes 4 to 6 (182 metric tons carrying capacity or more), and to all their longline vessels over 24 meters length overall, that fish for yellowfin, bigeye and skipjack tunas in the Convention Area.

2. Pole-and-line, troll, and sportfishing vessels, and purse-seine vessels of IATTC capacity classes 1-3 (181 metric tons carrying capacity or less) and longline vessels less than 24 meters length overall, are not subject to these measures, except those related to the management of Fish Aggregating Devices (FADs).

MEASURES FOR PURSE-SEINE FLEETS

3. All purse-seine vessels covered by these measures must stop fishing in the Convention Area for a period of ~~72~~55 days in each year covered by this Resolution. These closures shall be observed in one of two periods, as follows: from 00:00 hours on ~~29~~14 ~~July~~August to 24:00 hours on 8 October, or from 00:00 hours on ~~9~~26 November to 24:00 hours on 19 January of the following year.
4. For the years ~~2025 and~~ 2026, 2027 and 2028, CPCs shall ensure that vessels that exceeded during the previous year the annual catch limit of 1,200 metric tons of bigeye tuna shall increase during the following year by 10 additional days the closure period established in paragraph 3 of this resolution.

If during this same period a vessel exceeds the annual catch limit of 1,500 metric tons of bigeye tuna, they shall increase the closure by 13 days; if it exceeds the annual catch limit of 1,800 tons of bigeye tuna, it shall increase its closure by 16 days; if it exceeds the annual catch limit of 2,100 metric tons, it shall increase its closure by 19 days; and if it exceeds the annual catch limit of 2,400 metric tons, it shall increase its closure by 22 days, in addition to the closure stipulated in paragraph 3 of this resolution.

The additional days of closure pursuant to this paragraph shall be added, as appropriate, to the beginning of the closure for vessels observing the first period and to the end of the closure for vessels observing the second period, so that the closure of the first period shall always end on 8 October and the second period shall always begin on ~~9~~26 November of each year.

The IATTC Secretariat shall send to the CPCs by 1 March ~~2025 and~~ 2026, 2027 and 2028 the names of the vessels that must observe additional closure days in accordance with this paragraph.

5. Each CPC shall strengthen the sampling and control system for tuna catches through, among others, the utilization of on-board observer data, logbooks, port sampling and information from tuna processing facilities, to facilitate to the operators and captains the monitoring of their catches and a better compliance with the objectives of this Resolution.
6. CPCs shall be responsible for the compilation and submission of the final data on the annual catches of bigeye tuna made by individual vessels flying their flag during the current year and such data shall be reported to the Secretariat no later than 15 February of the following year.
7. Recognizing the experience gained by the Commission during the implementation of the Enhanced Sampling Program established in paragraph 6 of Resolution C-21-04, the Commission's scientific staff shall make available to flag CPCs that request it, the technology package consisting of training for national samplers, as well as the manuals, forms and software required for that purpose, in order to strengthen their vessel catch estimation processes. To this end, the Commission shall maintain a program to update this technology package for use by CPCs. ~~Recognizing the scientific value of the Enhanced Sampling Program (EMP), established in paragraph 6 of Resolution C-21-04, it shall remain active subject to the~~

~~availability of funds and budgetary approval by the Commission.~~

8. The IATTC scientific staff will present to the SAC in ~~2025~~2026:

a. the analysis of components, actions and budget that would be necessary to strengthen the traditional sampling program in order to obtain, among others, morphometric data ~~maintain the existing EMP in a cost efficient manner, with the addition of morphometric data;~~

~~b. the analysis of components, actions, technical feasibility, scientific output consequences, and budget that would be necessary to merge the EMP with the Commission's traditional sampling program. This analysis should assess whether it would be possible to integrate the objectives and actions of each in a cost efficient manner, including what would be needed to transfer the methodological and operational bases of the EMP acquired during previous years to make the continuity of this program feasible; and~~

~~e~~b. any suggested improvements to the traditional sampling program.

~~9. For 2025 and 2026, as soon as possible, after the conclusion of each trip, the IATTC staff will transmit to the flag CPC their best estimate of a vessel's catch for that trip, together with an accounting of the data and the methodology used to arrive at the estimate. The flag CPC will then determine the amount of bigeye catch that will be attributed to a vessel for a given trip per paragraph 12.~~

~~10. The sampling in port and processing plants may prioritize vessels that have reached an average catch between the years 2017 to 2019 greater than five hundred (500) tons of bigeye tuna per year, according to the data received by the Secretariat.~~

~~11.9.~~ CPCs shall ensure that data relating to species, sizes, and weights of products caught in the IATTC Convention Area delivered to tuna processing companies by vessels flying their flag, are provided to their fisheries authorities within 30 days from the last day of sorting by species and by commercial size or weight at the processing plant, with a copy to the IATTC staff. The Commission shall review this provision in 2026, following a report by the staff on the scientific usefulness of this information. ~~CPCs shall ensure that the processing plants data for vessels flying their flags for any fish caught in the IATTC Convention Area be provided to its fisheries authorities in real time (i.e., within 10 days from the first day of unloading until the last day of grading by size), with copy to the IATTC staff.~~

~~12.10.~~ The CPCs will be responsible for estimating the catch of bigeye tuna of each vessel flying its flag at the end of each trip, to the extent that one or more data sources are available to the CPC in the days immediately after the conclusion of the trip and discharge (e.g., observer estimates, ship's log data, well sampling, cannery data). The duty to estimate the catch of the vessel will be the responsibility of the flag CPC and the information shall be reported the following month after it becomes available.

~~13.11.~~ In the event that the interim status quo conditions, ~~as~~ currently represented by the average annual catches of bigeye tuna during the three-year period 2017-2019 (66,906 t – Best Scientific Estimate [BSE]), are not offset by this measure, or taking into consideration the results of any new stock assessments for bigeye, the IATTC scientific staff shall propose to the Commission an update of its recommendations for these conservation measures, including, among others, an increase of the numbers of closure days.

~~14. If the implementation of this measure has positive effects that demonstrate an improvement of the status of the bigeye tuna stock, the scientific staff shall analyze the conservation measures in~~

~~force in order to submit to the Commission for consideration new measures that consider, among others, reducing the number of closure days or eliminating the “corralito.”~~

- ~~15.~~ **12.** The fishery for yellowfin, bigeye, and skipjack tuna by purse-seine vessels within the area of 96° and 110°W and between 4°N and 3°S, known as the “*corralito*”, which is illustrated in Figure 1, shall be closed from 00:00 hours on 9 October to 24:00 hours on 8 November.



Figure 1. Closure area

- ~~16a.~~ **12a.** For each one of the closure periods stipulated in paragraph 3 of this Resolution, each CPC shall notify the Director, by 15 July of each year, the names of all the purse-seine vessels that will observe that closure period, also identifying those that must observe additional closure days pursuant to paragraphs 4 and 5 of this resolution .

b. Every vessel that fishes, regardless of the flag under which it operates or whether it changes flag or the jurisdiction of the CPC under which it fishes during the year, must observe the closure period to which it was committed.

- 13.** a. If a *force majeure*¹ event renders a vessel² unable to proceed to sea outside one of the two closure periods during a period of at least 75 continuous days, a CPC may request an exemption for a reduced closure period as provided in paragraph 3 and subparagraph 17b. If an exemption is granted, the vessel will be required to observe a reduced closure period as outlined below in subparagraph 17e. A request for exemption due to *force majeure* shall be sent by a CPC to the Secretariat within 30 calendar days of the end of the period of inactivity due to *force majeure*. Requests submitted after this time will not be considered.
- b. In addition to the request for an exemption, the CPC shall send the evidence necessary to demonstrate that the vessel did not proceed to sea during said continuous period, which closure period the vessel observed, and that the facts on which the request for exemption is based were due to *force majeure*.
- c. After the timely receipt of both the request and supporting information required in subparagraph b, the Director shall immediately send the request and the evidence electronically to the other CPCs for their consideration, duly coded in order to maintain the anonymity of the name, flag and owner of the vessel.
- d. The request shall be considered accepted unless an IATTC Member objects to it formally within 15 calendar days of the receipt of said request, in which case the Director shall

¹ For the purposes of paragraph 17, only cases of vessels disabled in the course of fishing operations by mechanical and/or structural failure, fire or explosion, shall be considered *force majeure*.

² This exemption applies to the vessels of fleets that observe either of the closure periods prescribed in paragraph 3.

immediately notify all CPCs of the objection.

- e. If the request for exemption is accepted:
 - i. the vessel shall observe a reduced closure period of 40 consecutive days in the same year during which the *force majeure* event occurred, in one of the two periods prescribed in paragraph 3, to be immediately notified to the Director by the CPC, or
 - ii. in the event said vessel has already observed a closure period prescribed in paragraph 3 in the same year during which the *force majeure* event occurred, it shall observe a reduced closure period of 40 consecutive days the following year, in one of the two periods prescribed in paragraph 3, to be notified to the Director by the CPC no later than 15 July of that year.
 - iii. vessels that benefit from the exemption must carry an observer aboard authorized pursuant to the AIDCP.
 - iv. The exemption shall only apply to the 72-day closure period stipulated in paragraph 3 of this Resolution, not to the additional periods stipulated in paragraphs 4 and 5.

14. Each CPC shall, for purse-seine fisheries:

- a. Before the date of entry into force of the closure, take the legal and administrative measures necessary to implement the closure;
- b. Inform all interested parties in its tuna industry of the closure;
- c. Inform the Director that these steps have been taken;
- d. Ensure that at the time a closure period begins, and for the entire duration of that period, all the purse-seine vessels fishing for yellowfin, bigeye, and/or skipjack tunas that are committed to observing that closure period and that fly its flag, or operate under its jurisdiction, in the Antigua Convention Area are in port, except vessels that do not carry out fishing activities for the purpose of harvesting in the Antigua Convention Area, carry an observer in accordance with the IATTC or an observer approved by the IATTC, and ensure that they do not make any catches during the closure period. ~~that vessels carrying an observer authorized pursuant to the AIDCP may remain at sea, provided they do not fish in the Convention Area. The only other exception to this provision shall be that vessels carrying an observer authorized pursuant to the AIDCP may leave port during the closure, provided they do not fish in the Convention Area.~~

MEASURES FOR THE FISHERY ON FISH-AGGREGATING DEVICES

- 15. For the purposes of this Resolution, the definitions contained in Annex I shall apply.
- 16. CPCs shall ensure that purse-seine vessels flying their flag have no more than the following number of FADs, as defined in Annex I (consistent with Resolution C-19-01), active at any one time:

For ~~2025-2026~~, 2027 and 2028:

Class 6 (1,200 m ³ and greater):	340 FADs
Class 6 (< 1,200 m ³):	210 FADs
Classes 4-5:	85 FADs
Classes 1-3:	50 FADs

- 17. A FAD shall be activated exclusively onboard a purse-seine vessel.
- 18. For the purposes of this resolution, a FAD is considered active when it:
 - a. is deployed at sea; and
 - b. activation of the satellite buoy has occurred, and the satellite buoy is transmitting its location

and is being tracked by the vessel, its owner, or operator.

19. Deactivation of a satellite buoy attached to a FAD may only be done in the following circumstances: complete loss of signal reception; beaching; appropriation of a FAD by a third party; temporarily during a selected closure period; for being outside of:
- the area between the meridians 150° W and 100° W, and the parallels 8° N and 10°S;
 - the area between the meridian 100° W and the coast of the American continent and the parallels 5° N and 15°S;

or transfer of ownership. CPCs shall report, or require their vessels to report, deactivations to the Secretariat using the specific data fields indicated in Annex II. The reports shall be submitted at monthly intervals with a time delay of at least 60 days, but no longer than 90 days after the deactivation. The FAD Working Group, based on advice from the IATTC scientific staff, shall provide to the SAC and the Commission advice on any required adjustments.

20. Remote reactivation of a satellite buoy at sea shall only occur in the following circumstances: to assist in the recovery of a beached FAD; after a temporary deactivation during the closure period; or transfer of ownership while the FAD is at sea. CPCs shall report, or require their vessels to report, any remote reactivation to the Secretariat using the specific data fields indicated in Annex III. The reports shall be submitted at monthly intervals with a time delay of at least 60 days, but no longer than 90 days after the remote reactivation.

Satellite buoys from FADs that are deactivated in accordance with paragraph 23 of this Resolution and are drifting south of 10°S and west of 100°E shall maintain an active signal solely for transmitting their position to FAD recovery programs; these buoys shall be excluded from the buoy limits per vessel.

21. The IATTC scientific staff and the Working Group on FADs will also, to the extent possible, review the variation in levels of aggregation, mortality, change in fishing strategy, and durability of FADs built with biodegradable materials or with designs and materials that present less risk for the environment.
22. In order to support the work of the IATTC scientific staff in analyzing the impact of FAD fisheries, while protecting business confidential data, CPCs shall report, or require their vessels to report, daily information on all active FADs to the Secretariat. The information provided shall be identical in form and content to the raw satellite buoy data provided by the buoy manufacturers to the original users (i.e., vessels and vessel administrators), as specified in the Annex IV of this Resolution. Reporting shall occur at monthly intervals and with a time delay of at least 60 days, but no longer than 90 days.
23. In order to provide the IATTC scientific staff with valuable information to feed their work, as agreed in 2023, CPCs shall continue reporting, or require their vessels to report to the IATTC, utilizing a format developed by the IATTC staff and approved by the Commission, complete VMS data for all vessels required to carry VMS pursuant to Resolution C-14-02 (amended by C-23-11). The information reported to the Secretariat shall include, at a minimum, the information specified in Paragraphs 2(a) of and 2(b) of that Resolution. Where the flag CPC requires more frequent polling rates, CPCs are encouraged to submit higher-frequency VMS data. Reporting shall occur every two months and with a time delay no longer than 90 days. Data collected pursuant to this paragraph shall be treated in accordance with Resolution C-15-07 on data confidentiality policy and procedures.
24. Each CPC shall ensure that:
- a. its purse-seine vessels do not deploy FADs during a period of 15 days prior to the start of the selected closure period;

- b. all its Class-6 purse-seine vessels recover within 15 days prior to the start of the closure period a number of FADs equal to the number of FADs set upon during that same period.
25. a. In compliance with Resolution C-23-04, to reduce the entanglement of sharks, marine turtles or any other species, CPCs shall ensure that, as of 1 January 2025, the design and construction of any FADs to be deployed or redeployed (i.e., will be placed in the water) in the IATTC area of competence shall comply with the following specifications in accordance with Annex I of that resolution:
- the use of mesh net shall be prohibited for any part of a FAD;
 - only non-entangling FAD materials and designs shall be used
- b. CPCs, with the support of the Commission and its staff and in consultation with all stakeholders, as appropriate, shall ensure that the design and use of biodegradable non-entangling FADs are made in compliance with the provisions of Resolution C-23-04 and its Annex I.
26. The Scientific Advisory Committee and the *Ad hoc* Permanent Working Group on FADs shall review the progress and results of the implementation of the FAD provisions contained in this Resolution and make recommendations to the Commission, as appropriate.

MEASURES FOR THE LONGLINE FISHERY

27. China, Japan, Korea, United States, and Chinese Taipei undertake to ensure that the total annual catches of bigeye tuna by their longline vessels in the Convention Area during 2025 and 2026 do not exceed 55,131 metric tons, distributed at the following levels:

Country	Metric tons
China	2,507
Japan	32,372
Korea	11,947
Chinese Taipei	7,555
United States	750

28. All other CPCs undertake to ensure that the total annual catches of bigeye tuna by their longline vessels in the Convention Area do not exceed the greater of 500 metric tons or their respective catches of bigeye tuna in 2001^{3,4}. CPCs whose annual catches have exceeded 500 metric tons shall provide monthly catch reports to the Director.
29. A CPC referenced in paragraph 31 may make a single transfer of a portion of its bigeye tuna catch limit to other CPCs that also have a bigeye tuna catch limit listed in paragraph 32, provided that the total transferred by any CPC does not exceed ~~30~~20 percent of its catch limit. These transfers cannot be made to retroactively cover an overage of another CPC's catch limit. Both CPCs involved in a transfer shall, separately or jointly, notify the Director 10 days in advance of the intended transfer. This notification shall specify the tonnage to be transferred. The Director shall promptly notify the Commission of the transfer.
30. The CPC that receives the transfer shall be responsible for management for the transferred catch limit, including monitoring and monthly reporting of catch. A CPC that receives a one-time transfer of bigeye tuna catch limit shall not retransfer that catch limit to another CPC.

³ The Commission acknowledges that France, as a coastal State, is developing a tuna longline fleet on behalf of its overseas territories situated in the Convention Area.

⁴ The Commission acknowledges that Peru, as a coastal State, will develop a tuna longline fleet, which will operate in strict compliance with the rules and provisions of the IATTC and in accordance with the resolutions of the Commission.

The amount of bigeye transferred shall be considered without prejudice by the Commission for the purposes of establishing any future limits or allocations.

OTHER PROVISIONS

31. Landings and transshipments of tuna or tuna products that have been positively identified as originating from fishing activities that contravene these measures are prohibited. The Director is requested to provide relevant information to CPCs to assist them in this regard.
32. Each CPC shall submit to the Director, by 15 July, a national report on its updated national compliance scheme and actions taken to implement these measures, including any controls it has imposed on its fleets and any monitoring, control, and compliance measures it has established to ensure compliance with such controls.
33. In order to evaluate progress towards the objectives of these measures, the IATTC scientific staff will analyze the effects on the stocks of the implementation of these measures, and previous conservation and management measures, and will propose, if necessary, appropriate measures to be applied in future years.
34. Subject to the availability of the necessary funding, the Director is requested to continue the experiments with sorting grids for juvenile tunas and other species of non-target fish in the purse-seine nets of vessels that fish on FADs and on unassociated schools, by developing an experimental protocol, including parameters for the materials to be used for the sorting grids, and the methods for their construction, installation, and deployment. The Director shall also specify the methods and format for the collection of scientific data to be used for analysis of the performance of the sorting grids. The foregoing is without prejudice to each CPC carrying out its own experimental programs with sorting grids and presenting its results to the Director.
35. To renew the requirement for all purse-seine vessels to first retain on board and then land all bigeye, skipjack, and yellowfin tuna caught, except fish considered unfit for human consumption for reasons other than size. A single exception shall be the final set of a trip, when there may be insufficient well space remaining to accommodate all the tuna caught in that set.
36. The IATTC shall continue efforts to promote compatibility between the conservation and management measures adopted by the IATTC and WCPFC in their goals and effectiveness, especially in the overlap area, including by frequent consultations with the WCPFC, in order to maintain, and inform their respective members of, a thorough understanding of conservation and management measures directed at bigeye, yellowfin, and other tunas, and the scientific bases and effectiveness of those measures.
37. Subject to the availability of the necessary funding, the IATTC scientific staff shall initiate, starting in ~~2025~~2026, research work on the relationship between the depth of nets deployed by tuna vessels and the catches of bigeye tuna, in order to determine its effect on an increase in fishing mortality in each area of operation. For the ~~2026~~2027 meeting of the IATTC SAC, the results of this work should be presented for their respective analysis and recommendations to the Commission.
38. In 2026 the results of these measures shall be evaluated in the context of the results of the stock assessments and of changes in the level of active capacity in the purse-seine fleet and, depending on the conclusions reached by the IATTC scientific staff, in consultation with the Scientific Advisory Committee, and based on such evaluation, the Commission shall take further actions including substantial extension of closure days for purse-seine vessels or equivalent measures, such as catch limits.
39. The IATTC shall continue efforts to develop harvest strategies for tropical tunas. The IATTC scientific staff shall continue to establish the scientific basis, through Management Strategy

Evaluation testing, to advise the Commission on initial candidate harvest strategies, starting with bigeye tuna. ~~The staff, consulting with the SAC, shall then present for the Commission's consideration in 2025 a candidate harvest strategy for bigeye tuna, including candidate management actions to be taken under various stock conditions.~~

- ~~40.~~ Except in cases of *force majeure* prescribed in paragraph 17, no exemptions will be allowed with regard to the closure periods notified to the Director in accordance with paragraph 16a, nor with regard to the fishing effort of the purse-seine fleets of the respective CPCs.
- ~~40.~~ 41. In the management strategy evaluation process in 2026, the scientific staff shall test the candidate harvest strategy for bigeye tuna described in document SAC-16-06, together with other candidate strategies recommended by the *Ad Hoc* Working Group on MSE. The *Ad Hoc* Working Group on Management Strategy Evaluation (WGMSE) shall review and analyze the results of their performance and forward them to the Scientific Advisory Committee for consideration in its recommendations to the Commission.
- ~~41. If the benchmark assessment scheduled for 2025-2026 for yellowfin tuna or, if not available, the ongoing stock assessment, if deemed reliable, updated with the most recent data, considered by the SAC shows that F_{MSY} (or proxy) has been breached, the provisions of this Resolution shall be reviewed and amended as appropriate at the upcoming IATTC annual meeting and corresponding measures shall be adopted by the Commission to reduce the F for yellowfin tuna to F_{MSY} .~~
- ~~42. If the benchmark assessment scheduled for 2025-2026 for yellowfin tuna or, if not available, the ongoing stock assessment, if deemed reliable, updated with the most recent data, shows that F is below F_{MSY} and that SSB is greater than SSB_{MSY} , and providing there is no indication of degradation of other stocks, the scientific staff shall present to the Commission options for new measures that reduce, among others, the number of days of closure or the elimination of the "corralito" currently in force. The Commission shall amend the measure in a manner that would not cause F_{MSY} to be breached or SSB to be reduced below SSB_{MSY} for tropical tuna stocks.~~
42. Taking into account the multispecies nature of the IATTC tropical tuna fisheries, the scientific staff shall evaluate and present to the Commission the potential impacts of the implementation of harvest strategies for bigeye tuna on the other tropical tuna stocks caught by the IATTC tropical tuna fisheries.
43. The scientific staff shall expand the MSE work to test candidate management strategies for both purse-seine and longline fisheries, and shall present its results in 2027 to assist the Commission with the implementation of a management procedure for tropical tunas that ensures balance among the different fisheries.
44. Subject to the availability of financial resources, priority shall be given to developing the tropical tuna tagging project in the EPO, and its implementation shall be recommended. In 2026, the scientific staff shall submit alternative proposals to the current design of the tropical tuna tagging program to the Commission. These proposals shall prioritize cost-efficient schemes that allow the established scientific objectives to be achieved and reduce the risk of failure in future benchmark assessments, especially for skipjack and yellowfin tuna.
45. In 2027 and thereafter, the scientific staff shall present analyses on the feasibility of increasing the carrying capacity to allow new vessels to enter the purse-seine fishery, as well as the impact this would have on management measures.

Annex I

Definitions

For the purposes of this Resolution, the following definitions shall apply:

- a. FAD (consistent with Resolution C-19-01): Anchored, drifting, floating or submerged objects deployed and/or tracked by vessels, including through the use of radio and/or satellite buoys, for the purpose of aggregating target tuna species for purse-seine fishing operations.
- b. Satellite buoy: A buoy that uses a satellite network service to indicate its geographical position and is compliant with requirements in Resolution C-19-01 to be clearly marked with a unique identification code.
- c. Activation of a satellite buoy: The act of initializing network service for receiving the satellite buoy's position. Activation is done by the buoy supplier company at the request of the vessel owner or manager. Following activation, the vessel owner pays for the communication service. The buoy can be transmitting or not, depending if it has been switched on.
- d. Deactivation of a satellite buoy: The act of cancelling network service for receiving the satellite buoy's position. Deactivation is done by the buoy supplier company at the request of the vessel owner or manager. Following deactivation, the communication service is no longer paid for, and the buoy stops transmitting.
- e. Reactivation of a satellite buoy: The act of re-initializing network service for transmission of a satellite buoy's position after deactivation. The procedure is the same as the one to be followed for activation of a satellite buoy.
- f. Signal loss: The situation in which, without any intervention of the owner/operator/manager, a satellite buoy cannot be located by the owner on a monitoring device. The main causes of signal loss are buoy retrieved by another vessel or person (at-sea or on-shore), FAD sinking and buoy failure.

Annex II

CPCs shall report, or require their vessels to report, any deactivation of a satellite buoy to the Secretariat using the following data fields of the first communication of the buoy after being activated:

- date [YYYY/MM/DD],
- time [hh:mm],
- buoy identifier code,
- latitude [expressed in degrees and minutes in decimal values],
- longitude [expressed in degrees and minutes in decimal values],
- speed [knots], and
- reason of deactivation: signal loss, stolen FAD, beaching, temporarily during closure periods, transferred ownership, FAD outside the areas specified in paragraph 20 of this resolution, other (specify).

Annex III

CPCs shall report, or require their vessels to report, any remote reactivation of a satellite buoy to the Secretariat using the following data fields of the last communication of the buoy before being deactivated:

- date [YYYY/MM/DD],
- time [hh:mm],
- buoy identifier code,
- latitude [expressed in degrees and minutes in decimal values],
- longitude [expressed in degrees and minutes in decimal values],
- speed [knots], and
- reason of remote reactivation: recovery of a signal loss, after a temporary deactivation during the closure period, or transfer of ownership while FAD is at sea, other (specify).

Annex IV

Format of the information to be requested to satellite buoy manufacturers

a) Daily information on buoy location

The following data fields should be included for all the buoys and positions recorded during the day, in fishing company-specific csv files:

- date [dd-mm-yyyy],
- time [hh.mm],
- unique buoy identifier code [the format varies for each buoy manufacturer but is always an alphanumeric code],
- IMO of the vessel associated to the buoy and receiving the information,
- latitude [expressed as decimal degrees],
- longitude [expressed as decimal degrees],
- speed [knots].

Additionally, whenever possible, the following information corresponding to each transmission will be included:

- Water temperature.
- Buoy in the water (only for those buoys with sensors that allow identifying buoys in the water)
- Activation and deactivation dates.
- Estate or transmission mode of the buoy (e.g. immediate information, retrieving, etc.)

Data should be received in csv files named “X-YYYY-MM-ZZZZZZZ.csv” where X is the code of the buoy manufacturer (M, S, Z, for Marine Instruments, Satlink, and Zunibal, respectively), YYYY is the year, MM the month, and ZZZZZZZ the name of the fishing company. A single csv file will be prepared for company, year and month.

b) Information on acoustic records

The following data fields must be included for all the buoys and acoustic records recorded daily, in fishing company-specific csv files:

- ZUNIBAL: company, unique buoy identifier code, date (date, time), type (position or sounder), latitude, longitude, speed, drift, total
- SATLINK: Company, unique buoy identifier code, Message Descriptor (MD), date (date, time), latitude, longitude, battery charge (bat), temp, speed, drift, layer1, layer2, layer3, layer4, layer5, layer6, layer7, layer8, layer9, layer10, sum, max, mag1, mag2, mag3, mag4, mag5, mag6, mag7, mag8.
- MARINE INSTRUMENTS: company, unique buoy identifier code, TransmissionDate, TransmissionHour, lat, lon, mode, light, poll, temperature, vcc, SounderDate, gain, layers, layerbits, maxdepth, sd1, sd2, sd3, sd4, sd5, sd6, sd7, sd8, sd9, sd10, sd11, sd13, sd12, sd14, sd15, sd16, sd17, sd18, sd19, sd20, sd21, sd22, sd23, sd24, sd25, sd26, sd27, sd28, sd29, sd30, sd31, sd32, sd33, sd34, sd35, sd36, sd37, sd38, sd39, sd40, sd41, sd42, sd43, sd44, sd45, sd346, sd47, sd48, sd49, sd50.

Data should be received in csv files named “X-YYYY-MM-ZZZZZZZ-Sounder.csv” where X is the code of the buoy manufacturer (M, S, Z, for Marine Instruments, Satlink, and Zunibal, respectively), YYYY is the year, MM the month, and ZZZZZZZ the name of the fishing company. A single csv file will be prepared for company, year and month.