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**Draft - Conservation and Management Measure on a Management Procedure for
South Pacific Albacore**

WCPFC22-2025-DP02a_Rev01¹

26 November 2025

Submitted by FFA Member CCMs

¹ See revision notes in attached FFA proposal.

CONSERVATION AND MANAGEMENT MEASURE ON A MANAGEMENT PROCEDURE FOR SOUTH PACIFIC ALBACORE

A proposal from FFA

Rev 1 notes:

FFA members are providing this Revision 1 to our proposed South Pacific albacore Management Procedure CMM. The revision is **largely unchanged from WCPFC22-2025-DP02a** but has been subject to some edits to improve the precision of the language and technical accuracy of the Annexes. The schedule of tasks within the MP management cycle under Paragraph 8 has also been amended to reflect the first running of the MP in 2026 with the resulting TAC applying to the first management period of 2027-29.

This revision has added some supporting rationale and explanation for the proposal. It retains but slightly expands the information on meeting the requirements of CMM 2013-06.

Supporting Rationale and Explanation for the FFA proposed Interim South Pacific albacore Tuna Management Procedure

FFA members are pleased to introduce and provide some explanation of our proposed South Pacific albacore Management Procedure CMM.

Objective

The objective maintains the adopted interim TRP (the middle option in terms of biomass depletion). The proposal is based on HCR7 which is “tuned” to achieve this adopted interim TRP, on average, in the long term. The output from the harvest control rule is an annual, overall, unallocated Total Allowable Catch but it is also recognized this may be converted to effort through the implementing arrangements. The MP CMM does not include or imply any allocation decisions.

Spatial assumptions:

On the spatial assumptions, we start from a principle that the MP should control as much of the South Pacific albacore catch as possible. However, we do recognise the following:

EPO

The EPO – specifically this region excluding the overlap area – is out of WCPFC control so catches should be treated as external and fixed at 2014-2023 levels (18,000 t) per year. We will advocate consistent use of this baseline for “external” catch assumptions.

Area between the equator and 10°S within the WCPFC-CA

This area is to be treated as external with catches fixed at 2014-2023 levels (9,000t) per year. This aligns with the WCPFC mixed fishery approach and provides for spatial separation of the Southern (South Pacific albacore) and Tropical (bigeye) areas and avoids running into problems where the MPs for different species (albacore and bigeye) would conflict under effort management.

This is an important consideration that we want to make sure all members understand. Many FFA members will utilise effort controls (total allowable effort) for the management of their longline fisheries across both the tropical and southern areas. So in any one area, the effort level needs to be set by a single MP otherwise the different species’ MPs will produce conflicting levels of effort for that area. We should all note that bigeye and yellowfin are the primary species taken in tropical longlines

north of 10°S and it is not appropriate that effort in this area be controlled by an albacore MP – rather it must be controlled by the future bigeye MP.

Mitigating burdens on SIDS

Tuvalu and Tokelau have small slivers of their EEZs that extend below the 10°S latitude line. These slivers have been shifted to tropical area management to mitigate the burden and operational complexity of applying two different management systems on the small administrations and EEZs of Tuvalu and Tokelau. This was a direct response to the CMM 2013-06 evaluation. SPA catches within these small areas should be fixed at 2014-2023 levels (667mt per year).

Further, we are pleased to note a key finding of the recent SPC analysis was that the exclusion of fisheries operating in the portions of the EEZs of Tokelau and Tuvalu that are south of 10°S did not strongly impact the performance of the four main MPs under consideration at that time, and did not require a change to the HCR shapes to achieve the relevant target reference points.

Archipelagic waters

We note the SPC analysis indicated a very small proportion of catches are in archipelagic waters, and their negligible impact on the performance of the candidate MPs. So we see no need to change how they are currently treated within the evaluations.

As noted, we consider that, where possible, total removals of South Pacific albacore should be actively managed under the MP, and we do not see any justification for other fishery components to be excluded from the control of the MP.

Maximum Change Rules (Constraints)

The output of the FFA proposed MP is constrained by a maximum decrease of 5% and a maximum increase of 10% between management periods. We note that the FFA proposed HCR 7 was also evaluated with no change constraint as a sensitivity analysis but this had little impact on the MP performance. This gives us comfort that our proposed constraints provide management stability but do not unduly affect the MP's ability to respond to stock conditions and manage the risk of breaching the limit reference point.

In summary, these measures form a comprehensive package that lays the foundation for strong fishery controls, meets market and industry expectations, and drives sustainable economic outcomes for our members. South Pacific albacore is our priority for WCPFC22. We now seek support from all CCMs for this proposal to be adopted at WCPFC22.

Application of CMM 2013-06

The following information is offered to assist the Commission to meet the requirements of CMM 2013-06 in respect of this draft CMM.

a. Who is required to implement the proposal?

All CCMs fishing south of the equator will be required to implement this proposal in their cooperation to achieve the outcomes of the management procedure for South Pacific albacore tuna through a TAC.

b. Which CCMs would this proposal impact and in what way(s) and what proportion?

This proposal will have an impact on all CCMs involved in fisheries that take South Pacific albacore

tuna in the Convention Area. The impact will be greatest on SIDS¹ in whose waters fishing for South Pacific albacore tuna partly takes place, and who are, in many cases, substantially dependent on fisheries targeting albacore for their sustainable development. The impact on those SIDS will depend on how the Commission implements the TAC for South Pacific albacore tuna, noting the implementation arrangements CMM is scheduled to be completed in 2025 in accordance with the South Pacific albacore roadmap. It is important that implementation of harvest strategies shall not result in transferring, directly or indirectly, a disproportionate burden of conservation action onto developing States, and territories and possessions. It is anticipated that the MP will result in achieving the stated objectives of maintaining the economic performance of dependent fisheries together with reasonable levels of total catch and overall improvements to the management of the fisheries for South Pacific albacore tuna in the Convention Area. This has benefits to SIDS. However, if the application of the MP does not work as anticipated, those SIDS could potentially face economic losses, hence the need for monitoring and the “interim” nature of the measure.

c. Are there linkages with other proposals or instruments in other regional fisheries management organizations or international organizations that reduce the burden of implementation?

How the shared South Pacific albacore tuna stock is managed by the IATTC in the Eastern Pacific Ocean has an impact on the effectiveness of any management intervention taken by the WCPFC. Cooperation with IATTC on the management of South Pacific albacore will help reduce the burden of management of this stock.

d. Does the proposal affect development opportunities for SIDS?

The proposed management procedure is designed to achieve objectives around profitability of SIDS’ domestic fleets together with providing reasonable levels of catch to support the activities of foreign fleets operating in SIDS’ waters. It is intended to improve decision-making and management for South Pacific albacore tuna fisheries and support long-term conservation of a stock that is a key tuna species within some SIDS’ fisheries. If effective, the proposal will enhance development opportunities for those SIDS substantively engaged in the South Pacific albacore tuna fisheries.

e. Does the proposal affect SIDS domestic access to resources and development aspirations?

As noted above, the proposal has the potential to contribute to maintaining and increasing the value of fisheries for South Pacific albacore tuna, including the artisanal and purse seine fisheries in a way that would enhance SIDS’ domestic access to resources and promote development aspirations. All relevant CCMs will be subject to some level of catch or effort constraints, including SIDS.

f. What resources, including financial and human capacity, are needed by SIDS to implement the proposal?

The harvest strategy approach is relatively new for many SIDS, and effective participation in this process may be challenging. This is a recognised priority, with assistance already being provided by the SPC, FFA, and the WCPFC, through a range of workshops and technical advisory activities.

¹ Small Island Developing States and Territories.

Work in this area will need to continue to be recognised as a priority. However, capacity building assistance by itself is not sufficient. There is a need to also ensure that harvest strategy activities are integrated into the Commission's programme in a way that does not increase the burden of overall participation in Commission activities on SIDS.

g. What mitigation measures are included in the proposal?

The mitigation measure included in the proposal is:

- The interim nature of the proposed MP, together with a process for monitoring that recognizes potential exceptional circumstances, is designed to enable further development of the South Pacific albacore tuna MP should it not achieve its objectives as expected.
- The South Pacific albacore MP application area has been adjusted to exclude the small portions of the EEZs of Tuvalu and Tokelau that extend below the 10°S line. These small areas would instead be assigned to the Tropical Longline area (which covers 20°N-10°S) and be managed through the bigeye tuna MP. This approach seeks to mitigate the excessive burden and operational complexity of applying two different management systems that would be disproportionate on the small administrations of Tuvalu and Tokelau. It is noted that the annual albacore catches within these two areas has been relatively low at around 670mt average over the past decade.
- The further components for the implementation of this harvest strategy will also be subject to a 2013-06 assessment and consideration of the special requirement of SIDS.

h. What assistance mechanisms and associated timeframe, including training and financial support, are included in the proposal to avoid a disproportionate burden on SIDS?

- Current and projected programmes of assistance are expected to meet the needs for training and technical assistance, provided the current priority is maintained.



Notes

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**CONSERVATION AND MANAGEMENT MEASURE ON A MANAGEMENT
PROCEDURE FOR SOUTH PACIFIC ALBACORE**

Conservation and Management Measure 2025-XX

Interim South Pacific albacore Tuna Management Procedure

A proposal from FFA

The Western and Central Pacific Fisheries Commission (WCPFC) **adopts**, in accordance with Article 10 of the Convention, the following Conservation and Management Measure.

Objective

1. The objective of the interim Management Procedure (MP) for South Pacific albacore, is to ensure that:
 - a) the spawning potential depletion² ratio of South Pacific albacore is maintained on average at a level consistent with the target reference point; and
 - b) the spawning potential depletion ratio of South Pacific albacore tuna is maintained above the limit reference point with a risk of the limit reference point being breached no greater than 20 percent;with a view to maintaining the economic performance of dependent fisheries together with reasonable levels of total catch, in a manner that achieves relative stability in fishing levels between management periods.

Reference Points

2. The target reference point for South Pacific albacore is specified as four percent below the estimated average spawning potential depletion of the stock over the period 2017-2019 ($0.96 \text{ SB}_{2017-2019} / \text{SB}_{F=0}$).² This supersedes an earlier decision of the Commission made by WCPFC 20 (WCPFC21 Outcomes, paragraphs 29 to 32).

3. The limit reference point is specified as 20 percent of the estimated spawning potential in the absence of fishing, calculated as described in technical definitions within paragraph 2.

Scope and design of the MP

4. The MP applies to longline and troll fisheries taking albacore tuna within the WCPFC convention area Exclusive Economic Zones and high seas south of the latitude of 10 degrees South, but excluding the exclusive economic zones of Tokelau and Tuvalu.. The MP (and this CMM) determines the total annual albacore catch to be taken within this region while a separate South Pacific Albacore Management Arrangements CMM will set out the implementation and management arrangements for achieving this. It is acknowledged that the management arrangements may include catch, effort and other mechanisms of control.

Elements of the MP

5. The MP includes:

- a) The Harvest Control Rule set out in Annex I;
- b) The Estimation Method using the settings set out in Annex II;
- c) Data Requirements and the Monitoring Strategy set out in Annex III;
- d) The procedure for Exceptional Circumstances set out in Annex IV.

Schedule and Roles of the Commission, the Scientific Committee and the Scientific Services Provider

6. The Scientific Committee shall regularly review the performance and outputs of the MP, including the indicators set out in Annex III, and provide advice to the Commission on:
- a) the performance of the MP as a basis for pre-defined rules that manage South Pacific albacore in order to achieve biological, ecological, economic and social objectives, including the robustness of the MP to changes in the fishery and any exceptional circumstances consistent with Annex IV; and
 - b) the application of the MP output to the relevant management implementing arrangements.
7. The Scientific Services Provider shall run the MP, perform the stock assessment, and support the Scientific Committee and Commission consideration of the MP.

² Technical definitions: Spawning potential depletion refers to the estimated South Pacific albacore spawning potential as a percentage of the estimated spawning potential in the absence of fishing (i.e., the unfished spawning potential). The metric is dynamic and can be estimated for each model time step.

The method to be used in calculating spawning potential in the absence of fishing ($SB_{F=0}$) shall be:

- a. $SB_{F=0}$, t1-t2 is the average of the estimated spawning potential in the absence of fishing for a time window of ten years based on the most recent South Pacific albacore stock assessment, where t1=y-10 to t2=y-1 where y is the year under consideration; and
- b. The estimation of unfished spawning potential shall be based on the relevant estimates of recruitment that have been adjusted to reflect conditions without fishing according to the stock recruitment relationship.

8. The Commission shall review the South Pacific Albacore Management Arrangements in a repeating 3-year schedule as follows:

Year	Scientific Services Provider	Scientific Committee	Commission
2025	- Support SC and Commission consideration of the MP.	- Provide advice to the Commission on <u>Candidate the MP's outputs for the period 2026–2028.</u>	- Develop/ Review the SPA Management Arrangements CMM for 2026–2028 , taking into account the nature of the MP.
2026	- Run the MP (using data to 2023 4) <u>for application to the period 2027-2029.</u>	Provide advice to the Commission on the MP outputs for the period 2027-2029.	- <u>Apply the output of the MP to the SPA Management Arrangements CMM for 2027-2029.</u>
2027	- Perform full stock assessment ($y_{last} = 2025$).	- Monitor and review the performance of the MP, including potential exceptional circumstances, and advise Commission.	- Apply the SPA Management Arrangements CMM. - <u>Consider SC advice on the performance of the MP.</u>
2028		- Monitor performance of the MP.	- Apply the SPA Management Arrangements CMM. Review the performance and use of the MP.
2029	-Run the MP (using data to 2027 6).	-Monitor the performance of the MP. -Provide advice to Commission on the MP outputs for the next management period (2030-2032).	- <u>Apply the output of the MP to the SPA Management Arrangements CMM for 2030-2032.</u> Review and revise the SPA Management Arrangements CMM for 2029–2031, taking into account the output of the MP.
2030	- Perform full stock assessment ($y_{last} = 2028$).	- Monitor and review the performance of the MP, including potential exceptional circumstances, and advise Commission.	- Apply the SPA Management Arrangements CMM.
2031		- Monitor performance of the MP.	- Apply the SPA Management Arrangements CMM. - <u>Consider SC advice on the performance of the MP.</u> Review the performance and use of the MP.
2032	- Run the MP (using data to 2030 29).	- Monitor the performance of the MP. - Provide advice to Commission on the MP outputs for the next management period (2033-2035).	- <u>Apply the output of the MP to the SPA Management Arrangements CMM for 2033-2035.</u> Review and revise the SPA Management Arrangements

			CMM for 2032-2034, taking into account the output of the MP.
<u>Etc. in a repeating 3-year cycle</u>			

Management Strategy Evaluation

9. The MP has been simulation tested to determine its likely performance against a range of plausible scenarios. These scenarios and the details of the testing procedure are provided in WCPFC-SC20/MI-WP04. The results of the evaluations are outlined in WCPFC22-2025-21 and are available online at: <https://ofp-sam.shinyapps.io/SPAMPLE/> .

Allocation

10. Allocation is not included in, or affected by, the MP.

Review and Final Provisions

11. The Commission shall review this CMM in 2029 and 2032 to ensure that the various provisions are having the intended effect. The Commission may amend the CMM at any point to fully apply the MP.
12. This measure shall come into effect on 16 February 2026 and shall remain in effect until 15 February 2033 unless replaced or amended by the Commission.

ANNEX I: HARVEST CONTROL RULE

1. The Specification of this HCR follows HCR 7 in WCPFC22-2025-21. It has the following baseline assumptions:

- a) Area: south of 10°S in the WCPFC-CA excluding the EEZs of Tokelau and Tuvalu (Figure 1)
- b) Applicable fisheries: longline and troll
- c) EPO (excluding overlap area) catch: 18,000 mt per annum
- d) Equator to 10°S catch: 9,667 mt per annum including slivers of the EEZs of Tokelau and Tuvalu that are south of 10°S

1.2. The harvest control rule is outlined in Figure 24 with parameters provided in Table 1. Features include:

- a) The input to the harvest control rule derives from the Estimation Method (Annex 2).
- b) For each 3-year management period, the harvest control rule uses the estimate of stock status as determined by the Estimation Method, to calculate a scalar that adjusts catches up or down relative to the baseline fishing conditions, subject to the +10% -5% constraint on maximum allowable change between management periods.
- c) The output from the harvest control rule is an annual, overall, unallocated annual Total Allowable Catch ~~that results from a catch-scalar applied to the average 2020-2022 catch levels.~~

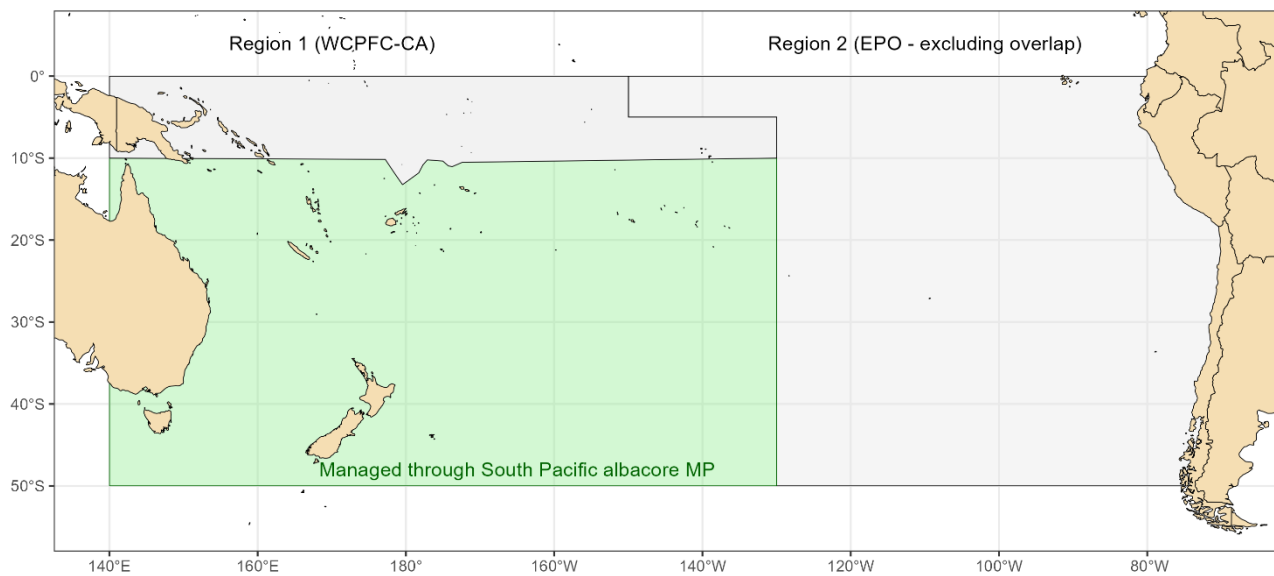


Figure 1: Area of application of the South Pacific albacore MP (in green).

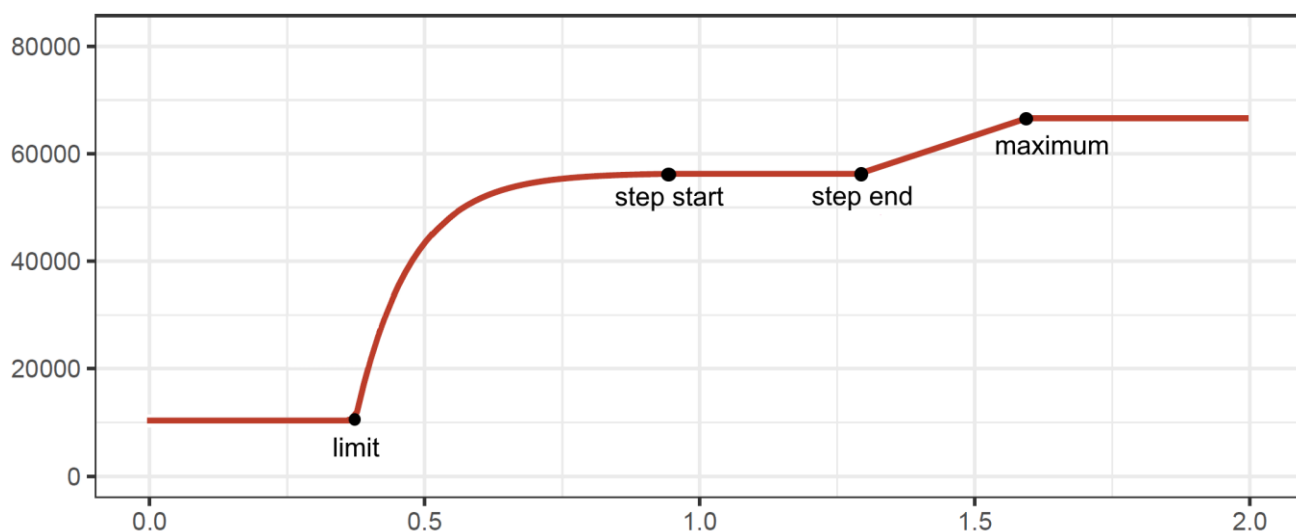


Figure 2. Harvest control rule.

Table 1. Harvest control rule parameters (see also WCPFC22-2025-21). Type = 'Asymptotic Hillary step'.

HCR 7	Parameter	Limit	Step start	Step end	Maximum
	Relative SB/SB _{F=0}	0.37	0.94	1.29	1.59
	HCR output	0.2	1.09	1.09	1.29
	Catch output (mt)	10,293	56,096	56,096	66,389

2.3. The maximum change in catch indicated by the HCR between any 3-year management period shall be a decrease of 5% and an increase of 10% relative to the catch levels specified by the MP for the previous three year period. For the first running of the MP, the maximum change in catch shall not exceed either a decrease of 5% or an increase of 10% relative to the last year of available catch data (i.e. 2023).

ANNEX II: ESTIMATION METHOD

1. Stock status is estimated within the MP using an Age-Structured Production Model implemented in MULTIFAN-CL.
2. The estimation method employs similar fishery definitions and model structure to that of the 2024 stock assessment, except that the troll fishery CPUE index is omitted from the estimation method (see Table 2).
3. The value of stock status returned from the estimation method is a relative measure, calculated as the mean depletion ($SB_y/SB_{F=0}$) in the last 3 years relative to the mean depletion for the period 2017-2019 ($SB_{2017-2019}/SB_{F=0}$). All quantities are calculated by the Estimation Method model. The calculation for $SB/SB_{F=0}$ is generally as described in Paragraph 2.

Table 2. Settings for the estimation method

Model Setting	Value
Regional structure	2 regions
Number of fisheries	19
Longline	13
Troll / Driftnet	4
Index	2 (longline only)
Steepness	0.8
Natural mortality	Lorenzen, M12 = 0.36
Growth	Fixed
ML1	45.538
ML2	100.115
K	0.3932
Movement rates	Fixed (2024 assessment)
Selection patterns	Fixed (2024 assessment)
Average recruitment	Last 2 years
Recruitment distribution	0.819, 0.181

Table 3: Model settings and post-processing steps used in the CPUE standardisation for South Pacific albacore estimation method. Two index fisheries are generated derived from; a global model used for fishery 20 (EPO) and a northern model used for fishery 18.

<u>Model Setting</u>	<u>Description</u>
<u>Model Type</u>	<u>A spatiotemporal delta-gamma generalized linear mixed model (delta-GLMM), implemented in two model configurations: a global model and a north model.</u>
<u>Data Filtering</u>	<u>Global indices generated from data across entire assessment area</u> <u>North model generated from data for the WCPO between 5°S and 30°S</u>
<u>Spatial Knot Configuration</u>	<u>A mesh with 157 spatial knots for the global model and 85 knots for the northern model.</u>
<u>Model Equations</u>	$y_i \sim \text{Bernoulli}(p_i)$ $\log\left(\frac{p_i}{1-p_i}\right) = \text{Year}_i + s(\text{month}_i) + \omega_1(s_i) + \phi_1(s_i, t_i) + s(\text{HBF}_i) + \text{Flag}_i + \varepsilon_1$ $c_i \sim \Gamma(\log\mu_i, \sigma^{-2}, \eta_i\sigma^2)$ $\log\eta_i = \text{Year}_i + s(\text{month}_i) + \omega_2(s_i) + \phi_2(s_i, t_i) + s(\text{HBF}_i) + \text{Flag}_i + \varepsilon_2$ <p><u>where σ is the coefficient of variation for positive catch rate measurement errors, y is the encounter probability, c is the CPUE, and i indexes individual records. $Year$ is the year effect; $s(\text{month})$ is a spline function for month effect; ω is the spatial random effect at location x; ϕ is the spatiotemporal random effect at location x and time t; $s(\text{HBF})$ is a spline function for hook-based fishing effort; and $Flag$ is the additive effect of the flag group. The spatial variation terms $\omega_2(x_i)$ are modeled as a Gaussian random field with a Matérn covariance function to account for spatial autocorrelation.</u></p>
<u>HBF Imputation</u>	<u>Missing HBF values are predicted using a random forest approach (Breiman 2001) implemented via the randomForest R package (Liaw and Wiener 2002). The model uses predictors including year, month, latitude, longitude, number of hooks fished, vessel flag, the proportional catch of the four main species (albacore, yellowfin, bigeye, swordfish), and total catch value, with 500 trees.</u>
<u>Implementation Platform</u>	<u>sdmTMB version 0.3.0 (R package).</u>
<u>Normalisation Method</u>	<u>CPUE values are mean-centered using absolute values.</u>
<u>Penalty Term Calculation</u>	<u>Penalty terms are applied as the coefficient of variation (CV) for the catch-conditioned model.</u>

ANNEX III: DATA REQUIREMENTS AND MONITORING STRATEGY

Table 4. Data requirements under the WCPO MP and considerations for the monitoring strategy with respect to the collection, provision, coverage, and quality of data necessary to run the MP and generate performance indicators.

Data requirement	Monitoring Considerations
MP: estimation model	
Annual catch estimates.	Obligatory under WCPFC scientific data submission standards.
Aggregate catch/effort data.	Obligatory under WCPFC scientific data submission standards.
Longline operational catch/effort data.	Obligatory under WCPFC scientific data submission standards.
Standardised CPUE indices for longline fisheries	Continuation of ongoing arrangements.
Monitoring Strategy: performance indicators	
Catch and effort data as above	Calculation of performance indicators listed in table 5-6 for comparison with MSE outputs.
Other data as available to calculate performance indicators – this may include:	The frequency and scope of these data may vary depending on data availability and collection procedures. Performance indicators calculated from them may represent only a subset of the fishery.

Table 5. Aspects to be considered for inclusion in the monitoring strategy and the Commission body at which those considerations can be made.

MP Element	Commission Body	Monitoring Considerations
Review the MSE framework		
OM sets.	SC	Ensure that the most important sources of uncertainty are included in the OM sets.
Calculation of performance indicators.	SC	Appropriate representation of objectives by performance indicators.
Modelling assumptions.	SC	Consider the technical details of the simulation and testing framework.
Data availability to support the OM sets	SC	Improvements to data collection to either enhance the OM sets and/or better represent uncertainty in the OM sets.
Review performance of the MP		
Comparison of MP performance against latest stock assessment.	SC	Check that the MP is performing as expected.
Data availability to run the MP.	SC	Check availability, quantity, quality of data necessary to run the MP (e.g. the estimation model, see table 3).
Other sources of data to monitor performance not included in the MSE framework.	SC/TCC	Identify other data as available to inform calculation of performance indicators (economic, social, ecosystem, etc).
Review of the MP		
Management objectives.	Commission	In accordance with para 8, periodically check that the overall objectives of the MP remain appropriate.
Consider Exceptional Circumstances		
Exceptional circumstances.	SC/TCC/ Commission	Drawing on all of the above, have events (unexpected, extra-ordinary) occurred such that remedial action is required to either review, modify or replace the MP

Table 6. Performance Indicators Examined within the Management Strategy Evaluation

Indicator 1	Stock status ($SB/SB_{F=0}$)
Indicator 2	Probability $SB/SB_{F=0} < LRP$
Indicator 3	Expected <u>albacore</u> catch in the WCPFC convention area, <u>south of 10°S</u>
<u>Indicator 4</u>	<u>Expected albacore catch of fisheries managed through the MP</u>
Indicator <u>45</u>	Expected vulnerable biomass (VB - a proxy for catch rates) in the WCPFC convention area, <u>south of 10°S</u> , relative to the level in 2020-2022.
Indicator <u>56</u>	<u>Albacore C</u> atch variability (annual absolute change in catch in the WCPFC convention area, <u>south of 10°S</u>)
Indicator <u>67</u>	Effort variability (of longline fisheries in the WCPFC convention area, <u>south of 10°S</u>)

ANNEX IV: EXCEPTIONAL CIRCUMSTANCES

1. Exceptional circumstances are defined as the occurrence of events that are outside the range of scenarios considered for testing the MP. In the case of such events, it may be necessary to re-evaluate the MP or, in severe cases where there is considered to be a risk to the stock, take remedial action. Exceptional circumstances are not a mechanism for making regular, small adjustments to the MP, but rather should be invoked where, through an agreed process, the operation of the MP has been demonstrated to be highly risky or inappropriate. This Annex provides guidance on the process for determining whether exceptional circumstances exist and the necessary actions but does not provide firm definitions of all possible exceptional circumstances.

Process to determine if exceptional circumstances exist

2. SC to implement and conduct a monitoring strategy and to advise the Commission on the occurrence of exceptional circumstances based on the results of:
 - Routine annual evaluation of potential exceptional circumstances based on information presented to and reviewed by SC; and
 - Detailed evaluation of potential exceptional circumstances every 3 years coincident with the stock assessment.
3. Examples of what might constitute exceptional circumstances include, but are not limited to:
 - Persistent low recruitment outside the range for which the MP was tested;
 - Substantial improvements in knowledge, or new knowledge, concerning the dynamics of the population which would have an appreciable effect on the operating models used to test the MP;
 - Non-availability of important input data resulting in an inability to run the MP;
 - Stock assessment biomass estimates that are substantially outside the range of simulated stock trajectories considered in the MP evaluations, calculated under the reference set of operating models;
 - Significant increases in the contribution of fisheries not affected by the MP, beyond the levels assumed in the development and testing of the MP, that substantially impact MP performance against the Objective;
 - Failure of reported catch and effort to be within an acceptable range around the levels indicated by the MP; and
 - Persistent or strong negative outcome in indicators calculated under the monitoring strategy.

Process for action in the event of exceptional circumstances

4. Having determined that there is evidence for exceptional circumstances, the SC will, in the same year, provide advice to the Commission including, but not limited to:
 - the nature and considered severity of the exceptional circumstances;
 - the necessary action required;
 - where the severity is considered to be high, the recommendation may be for a change to the catch/effort limits; and
 - where the severity is considered to be low, the recommendation may be that the Scientific Committee review the MP earlier than scheduled.