

**JOINT IATTC AND WCPFC-NC WORKING GROUP INTERSESSIONAL MEETING ON THE
MANAGEMENT OF PACIFIC BLUEFIN TUNA
First Session (JWGI01)**

Monterey, California, USA
05 – 07 February 2025

**Reference document for Intersessional Joint IATTC-WCPFC NC Working Group on Pacific
Bluefin Tuna MSE**

IATTC-NC-JWGI01-2025-WP-01

ISC PBFWG



Reference document for Intersessional Joint IATTC-WCPFC NC Working Group on Pacific Bluefin Tuna MSE

ISC PBFWG

In response to the request of the JWG, ISC PBFWG is currently working hard to complete the PBF MSE before the JWG meeting in July. We are optimistic that we can meet the deadline, most notably by providing an “MSE report” similar to a stock assessment report before the July meeting which will contain all the relevant information of PBF MSE. However, at this moment, the final simulations are still ongoing and various parts of MSE work are not compiled in a single website or document. In this meeting, we will provide a “status report” of PBF MSE in a series of PowerPoint presentations. However, for those who want to further dig into the details of the development of the PBF MSE, we hereby provide a list of relevant documents presented so far to the ISC PBFWG (note most of the documents are not final). Please note that it is not easy to fit an MSE process, which usually requires multiple exchange between scientists and stakeholders within a single year, into the work schedule of international scientific institutions such as ISC.

Stock assessment result

[2024 stock assessment](#)

PBF WG meeting reports

December 2024: not available until the approval of ISC25

[February 2024](#)

[November 2023](#)

[March 2023](#)

[November 2022](#)

MSE Framework and Operating Models

December 2021

- [How to improve a flexibility of the Stock Synthesis model for Pacific bluefin stock to the alternative assumptions with keeping its performance.](#)

November 2022

- [Overview of the preliminary Pacific bluefin tuna management strategy evaluation framework](#)

March 2023

- [Evaluating productivity parameter uncertainty using the age-structured production model diagnostic with recruitment](#)
- [Cause of the high fluctuation of SSB in base case OM](#)

November 2023

- [Evaluating the Uncertainty Grid: Applying Diagnostic Tools](#)
- [Relationship between Relative Fishing Mortality across Fleets and Proportional Fishery Impact for Pacific Bluefin Tuna](#)

February 2024

- [Evaluating the Uncertainty Grid Using the 2024 stock assessment: Applying Diagnostic Tools.](#)
- [Revised Method to Tune the Relative Fishing Mortality in the Pacific Bluefin tuna MSE for the Requested Proportional Fishery Impact.](#)
- [Implementation of 2-year lag between stock status estimation and management action in the Pacific Bluefin tuna management strategy evaluation.](#)

December 2024

- [Updates to the Management Strategy Evaluation Framework for Pacific Bluefin Tuna.](#)

Estimation Model

March 2023

- [Considerations of the Use of SS3 ASPM-R as an Estimation Model in PBF MSE](#)

November 2023

- [Further Considerations of the Use of SS3 ASPM-R as an Estimation Model in PBF MSE](#)

December 2024

- [Final Considerations of the Use of SS3 ASPM-R as an Estimation Model in PBF MSE.](#)

Management Procedure and Performance Metrics

March 2023

- [Calculation of Fishery Impact Performance Metric for the Pacific Bluefin Tuna Management Strategy Evaluation](#)
- [Performance of Candidate Model-based Harvest Control Rules for Pacific Bluefin Tuna](#)

November 2023

- [Implementation of New Candidate Harvest Control Rules in the Management Strategy Evaluation for Pacific Bluefin Tuna](#)
- [Impact of 25% Limit on Quota Change in the Pacific Bluefin Tuna Management Strategy Evaluation on Quantities of Management Interest](#)

February 2024

- [Long-term Performance of Pacific Bluefin Tuna harvest controls with a 25% Limit on Quota Change under a Low Recruitment Scenario](#)

December 2024

- [Example Performance Metrics and Associated Plots for the Pacific Bluefin Tuna Management Strategy Evaluation.](#)

Robustness Test

February 2024

- [Potential Robustness Trials for the Pacific Bluefin Management Strategy Evaluation.](#)

December 2024

- [Consideration about a possible unseen change in catchability in the standardized CPUE for the robustness test of the PBF MSE.](#)
- [Sensitivity analysis with different unseen mortality assumptions based on the 2024 stock assessment model.](#)