

Evaluation of CMM 2025-02 (Tropical Tuna CMM) WCPFC-SC22-MI-IP-04

SCIENTIFIC COMMITTEE
Twenty Second Regular Session
Apia, Samoa

SPC-OFP
11 – 19 August 2026

Content

- CMM evaluation

Step 1: Develop alternative scenarios for future fishing levels possible under CMM2025-02

Step 2: Evaluate the consequences of each scenario for tropical tuna stocks, and compare to CMM2025-02 objectives

Presentation won't cover additional analyses in appendices
Evaluations include 2025 data (second operational year of 2025-02).
Analysis updates include the 2025 SKJ assessment & recalibrated TRP value
BET and YFT results not updated – awaiting SC agreement



CMM 2025-02 evaluation



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Step 1: Scenarios to bracket potential futures under CMM 2025-02:

- **‘2019-2021 avg’** = those fishery levels continue
 - **‘Optimistic’** = incorporate shorter FAD closure period specified in CMM 2025-02, effort at 2019-21 levels; LL take limits or 2019-21 levels if lower
 - **‘SKJ MP/Table 3’** = shorter FAD closure + 2012 effort levels; LL fleets indicating higher Table 3 catches achieve this (as nominated in 2025)
 - **‘Fully utilised’** = all opportunities under the CMM maximised; 2012 PS effort as per skipjack MP, high seas FAD sets maximised, LL BET catch limits taken + Table 3 extras. NOTE: don’t assume Table 1 total levels – not seen in recent yrs.
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- Evaluated for BET (recent and long-term recruitment), YFT and SKJ
 - For YFT and SKJ, PS impact is primarily through the overall PS effort
 - For BET PS impact is primarily through the FAD set effort x effort change
 - For YFT – continue assuming BET LL catch scalars are applied to yellowfin

Evaluating stock impacts



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- 30 yr projections off latest assessment model grids
 - BET run for the two recruitment scenarios ('recent' and 'long term')
- Future PS effort and LL catch set at scenario levels (scaled off 2019-2021 levels)
 - Most domestic ID/PH/VN fisheries set at 2016-2018 average catch **effort** levels for yellowfin tuna evaluation
- Outcomes presented:
 - 'equilibrium' outcomes (depletion $SB/SB_{F=0}$ and F/F_{MSY}) at end of 30 yr projection
 - Risk relative to LRP (and F_{MSY}) at end of 30 yr projection
 - 'Snapshot' evolution of stock status (see Tables 6 & 8)

Outcomes

- Remain consistent with previous analyses
- Fully utilised CMM 2025-02 achieves objectives (skipjack MP TRP) for **skipjack**
- Fully utilised CMM 2025-02 does not achieve objective (2012-2015) for **bigeye** under either recruitment scenario
- No CMM 2025-02 scenario achieves objective (2012-2015) for **yellowfin** (caveat around assumption that yellowfin is scaled consistent with bigeye LL catch, YFT R2 effort based)
- New SKJ assessment and additional CN nominated LL catch under Table 3 do not change the overall message

Recent levels v expected under CMM

	Average 2019-21	2023	Scalar 2023	2024	Scalar 2024	2025	Scalar 2025
Purse seine effort (FAD sets) ¹	15,009	15,471	1.03	11,310	0.75	16,798	1.12
Longline bigeye catch (mt)	55,317	55,035	0.99	54,528	0.99	51,977	0.94
Longline yellowfin catch (mt)	64,720	65,764	1.02	89,190	1.38	80,414	1.24

Fully utilised: LL = 1.68, FAD sets =1.43

