Evaluation of CMM 2023-01 (Tropical Tuna CMM) WCPFC22-2025-22_REV1

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Content

- CMM evaluation

Step 1: Develop alternative scenarios for future fishing levels possible under CMM2023-01

Step 2: Evaluate the consequences of each scenario for tropical tuna stocks, and compare to CMM2023-01 objectives

Presentation won't cover additional analyses in appendices
Evaluations include 2024 data (first operational year of 2023-01).
Analysis updates include the 2025 SKJ assessment & recalibrated TRP value

CMM 2023-01 evaluation

Step 1: Scenarios to bracket potential futures under CMM 2023-01:

- **'2019-2021 avg'** = those fishery levels continue
- **'Optimistic'** = incorporate shorter FAD closure period specified in CMM 2023-01, 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.

- 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

- 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 2023-01 achieves objectives (skipjack MP TRP) for **skipjack**
- Fully utilised CMM 2023-01 does not achieve objective (2012-2015) for **bigeye** under either recruitment scenario
- No CMM 2023-01 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 (new this year) additional CN nominated LL catch under Table 3 do not change the overall message

Recent levels v expected under CMM

	Average 2019-21	2022	Scalar 2022	2023	Scalar 2023	2024	Scalar 2024
Purse seine effort (**FAD sets**)[1]	15,782	18,053	1.14	15,900	1.01	12,105	0.77
Longline bigeye catch (mt)	56,048	52,656	0.94	54,741	0.98	53,875	0.96
Longline yellowfin catch (mt)	66,084	67,906	1.03	65,384	0.99	88,610	1.34

Fully utilised: LL = 1.68, FAD sets =1.43