Indian Ocean Albacore Tuna

Management Authority:

Indian Ocean Tuna Commission

Expected Adoption Year:

2026

Management Objectives:

Tuning Objectives (for MSE purposes):

- Pr(mean(SB(2019:2038)>=SB(MSY)) = 0.5. Average SB over the period 2030-2034 exceeds SB_{MSY} in exactly 50% of the simulations)

- Pr(Kobe green zone 2019:2038) = 0.5. The stock status is in the Kobe green quadrant over the period 2019-2038 exactly 50% of the time (averaged over all simulations)

- Pr(Kobe green zone 2019:2038) = 0.6. The stock status is in the Kobe green quadrant over the period 2019-2038 exactly 60% of the time (averaged over all simulations)

- Pr(Kobe green zone 2019:2038) = 0.7. The stock status is in the Kobe green quadrant over the period 2019-2038 exactly 70% of the time (averaged over all simulations)

Reference Points:

Interim Limit Reference Point: 40% B_{MSY} and 140% F_{MSY}
Interim Target Reference Point: B_{MSY} and F_{MSY}

Candidate Harvest Strategies:

Model-based. Development of ABC approach (Approximate Baysian Computation) underway. Testing of candidate harvest strategies to begin in 2024-25 and,

Tested with the following constraints:
Total Allowable Catch (TAC) to be set every 3 years (and held constant between settings)

A maximum of 15% change to the TAC (increase or decrease) relative to the previous TAC

Progress Update & Workplan:

2024-2025: Finalization of ABC modelling approach

2025–2026: Evaluation of candidate harvest strategies underway via MSE.

Refine and further develop MSE and candidate harvest strategies Adopt final harvest strategy

Link to relevant policy document or update:

Updates on development of MSE analyses for Indian Ocean albacore tuna (2023)
(https://iotc.org/documents/TCMP/06/10E)

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