

## 12 | Harvest Strategy in development

# Indian Ocean Yellowfin Tuna



### Management Authority:

Indian Ocean Tuna Commission

### Expected Adoption Year:

2023

### Management Objectives:

#### Tuning Objectives (for MSE purposes):

- $\Pr(B(2029) \geq B(MSY)) = 0.5$  (SB in 2029 exceeds  $SB_{MSY}$  in exactly 50% of the simulations)
- $\Pr(B(2034) \geq B(MSY)) = 0.6$  (SB in 2034 exceeds  $SB_{MSY}$  in exactly 50% of the 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:

Comprehensive harvest strategy proposed by Australia. MSE evaluating model-based HCRs with these candidate 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:

Evaluation of candidate harvest strategies underway via MSE. Reference set of operating models were revised in 2021 due to concerns about uncertainty in the stock assessment on which the operating models are based, strengthening the MSE.

- **2022:** Refine and further develop MSE and candidate harvest strategies
- **2023:** Adopt final harvest strategy

### Link to relevant policy document or update:

- [IOTC Yellowfin Tuna Management Procedure \(MP\) Evaluation Update June 2021 \(https://www.iotc.org/documents/TCMP/04/09\)](https://www.iotc.org/documents/TCMP/04/09)
- [Resolution 15/10 on Target and Limit Reference Points and a Decision Framework \(https://www.iotc.org/documents/resolution-1510-target-and-limit-reference-points-and-decision-framework-0\)](https://www.iotc.org/documents/resolution-1510-target-and-limit-reference-points-and-decision-framework-0)
- [Proposal on a Management Procedure for Yellowfin Tuna in the IOTC Area of Competence: \(https://iotc.org/documents/SC/22/14\)](https://iotc.org/documents/SC/22/14) Proposed by Australia