Indian Ocean Swordfish

Management Objectives:

Tuning Objectives (for MSE purposes):

- Pr(Kobe green zone 2030:2034) = 0.5. The stock status is in the Kobe green quadrant over the period 2030:2034 exactly 50% of the time (averaged over all simulations)
- Pr(Kobe green zone 2030:2034) = 0.6. The stock status is in the Kobe green quadrant over the period 2030:2034 exactly 60% of the time (averaged over all simulations)
- Pr(Kobe green zone 2030:2034) = 0.7. The stock status is in the Kobe green quadrant over the period 2030:2034 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:

Both model-based and empirical, CPUE-based harvest strategies are being tested via MSE. Harvest control rules are being tested with the following constraints:

- TAC setting every 3 years
- 15% TAC change limits
- 3 year lag between data and TAC implementation

Progress Update & Workplan:

Evaluation of candidate harvest strategies underway via MSE

- **2022:** Refine and further develop MSE and candidate harvest strategies
- **2023 or 2024:** Adopt final harvest strategy

Link to relevant policy document or update:

- Swordfish Management Strategy Evaluation Update: (https://www.iotc.org/documents/swordfish-management-strategy-evaluation-update) Updates to the MSE framework as of 2022
- Resolution 15/10 on Target and Limit Reference Points and a Decision Framework (https://iotc.org/cmm/resolution-1510-target-and-limit-reference-points-and-decision-framework)

Management Authority:

Indian Ocean Tuna Commission

Expected Adoption Year:

2024