Harvest Strategy in development

Indian Ocean Albacore Tuna

Management Objectives:

Tuning Objectives (for MSE purposes):

- \( \Pr(\text{mean}(SB(2019:2038)) \geq SB(\text{MSY})) = 0.5 \). Average SB over the period 2030-2034 exceeds SB\(_{\text{MSY}}\) in exactly 50% of the simulations.
- \( \Pr(\text{Kobe green zone 2019:2038}) = 0.5 \). The stock status is in the Kobe green quadrant over the period 2019-2038 exactly 50% of the time (averaged over all simulations).
- \( \Pr(\text{Kobe green zone 2019:2038}) = 0.6 \). The stock status is in the Kobe green quadrant over the period 2019-2038 exactly 60% of the time (averaged over all simulations).
- \( \Pr(\text{Kobe green zone 2019:2038}) = 0.7 \). 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% \( B_{\text{MSY}} \) and 140% \( F_{\text{MSY}} \)

Interim Target Reference Point: \( B_{\text{MSY}} \) and \( F_{\text{MSY}} \)

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:

- 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.

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

Link to relevant policy document or update: