14 | Harvest Strategy in development

Indian Ocean Swordfish

Management Objectives:

Tuning Objectives (for MSE purposes):
- \( \Pr(\text{Kobe green zone 2030:2034}) = 0.5 \). The stock status is in the Kobe green quadrant over the period 2030:2034 exactly 50% of the time (averaged over all simulations).
- \( \Pr(\text{Kobe green zone 2030:2034}) = 0.6 \). The stock status is in the Kobe green quadrant over the period 2030:2034 exactly 60% of the time (averaged over all simulations).
- \( \Pr(\text{Kobe green zone 2030:2034}) = 0.7 \). 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:
- Updates to the MSE framework as of 2022