Indian Ocean Albacore Tuna Management Procedures Evaluation: Status Report

IOTC TCMP04, 4-5 June 2021

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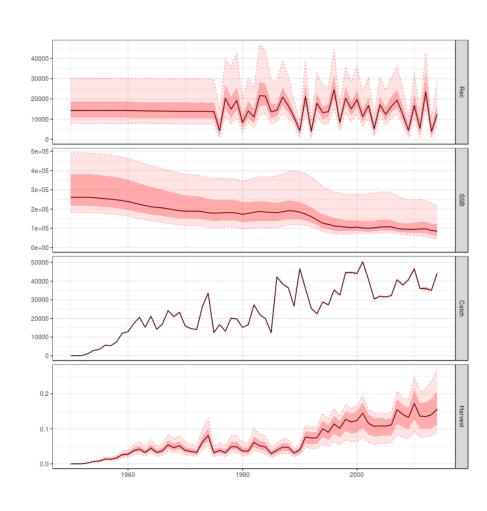






Previous Albacore Operating Model

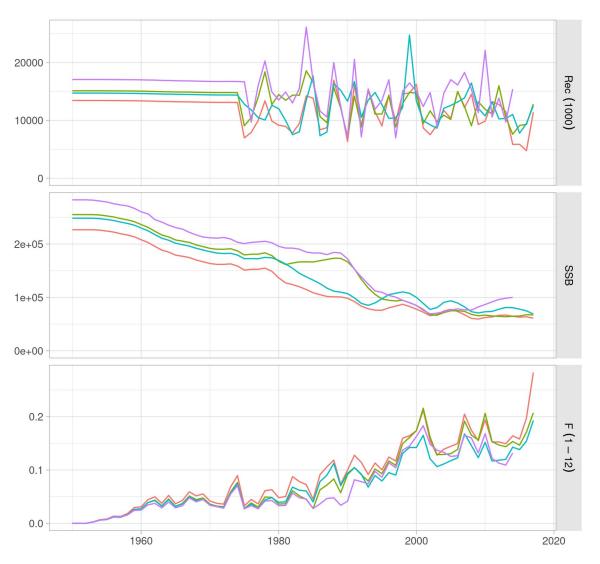
- WPTmT 2016, data 1950-2014
- Uncertainty in
 - M
 - Steepness
 - recruitment variability
 - sampling size length data
 - CV CPUE
 - Yearly increase catchability LL
 - Selectivity model
- 1,440 model runs, equal weight





Updated Albacore Stock Assessment

- 2 sex, 1 area
- 4 LL fleets, PS (NW), DN (1982-92).
- NW CPUE + LF, SW CPUE + LF, NW CPUE down LF.
- Lower K, lower SB, higher F than 2014 model.







Updated Albacore Operating Model

- WPTmT 2019, data 1950-2017
- Uncertainty in
 - M
 - Steepness
 - recruitment variability
 - Weight CPUE / length data
 - Yearly increase catchability LL
 - CPUE (NW, SW)
- Partial factorial grid (84 runs)
- Weights based on prediction skill



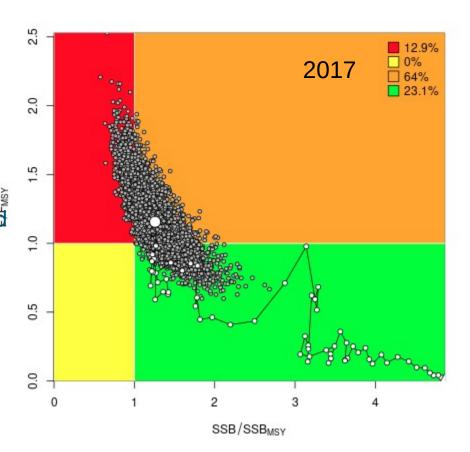


Tuning Objectives

- **TA2**: P(Kobe = green) = 50%
- **TA3**: P(Kobe = green) = 60%
- **TA4**: P(Kobe = green) = 70%
- Computed over the 2030-2034 period

Constraints:

- 3-year TAC setting
- 15% TAC constraint
- Two year data lag, effect of one year.





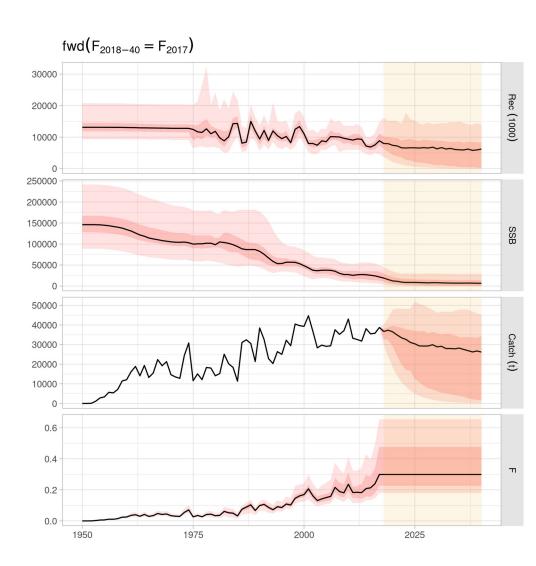
Feedback from TCMP 04

Tuning objectives

Are the three objetives still appropriate?

Robustness

Any possible or expected changes in the fishery?





Next steps

- Final OM and simulation platform (WPM)
- Adoption of OM and platform (SC)
- Delivery of simulations and platform (December 2021)
- End of contract (December 2021)



Thank you for your attention!

To explore the potential of nature to improve the quality of life

