Summary of discussions for SKJ MSE

IOTC 14th Working Party on Methods

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Major points

Consideration of Implementation error / over-catch:

- Each MP currently tuned to be robust to implementation error, by assuming an implementation error during tuning.
- Preferred approach is to tune assuming no implementation error $\rightarrow$ 3 MPs only (i.e. tuned to 50%, 60%, 70% criteria of being above the target reference point).
- Robustness then evaluated through simulations assuming 0% – 40% over-catch.
- Decision still to be made concerning degree of over-catch required to invoke exceptional circumstances.
- Definition of exceptional circumstances.

Major points

Consideration of recruitment failure:

- Current robustness trial considered to be too extreme.
- Preferred approach is to use a lower quantile of the estimated recruitment deviations applied for two years (2023-2024).

Limits on TAC change:

- Assume 15% symmetric limit on change in TAC.

Major points

Reference point definitions:

- Currently consider B40% as a proxy for BMSY and MPs are tuned to the "Kobe Green" quadrant.
- Update the terminology so that B40% is the "target" reference point and tune to the "Target" quadrant.
- Include BMSY reference point in the diagnostic outputs table

Implementation cycle:

- Currently 1 year lag in simulations.
- Consider 2 or 3 year lag as more realistic.

Update of OM:

1. Stock assessment due to be updated in 2023
2. Preference is to not update the OM with new stock assessment model structure (only update the data using the current model structure).

Minor points

Updates to technical specifications of simulations:

1. Consistent over-catch applied to 2021-2023 TAC
2. Possibility of including a limit to the possible F change per year.
3. Look to include specifications of CPUE standardisations into the MP description