

SCRS ROAD MAP FOR THE DEVELOPMENT OF MANAGEMENT STRATEGY EVALUATION (MSE) AND HARVEST CONTROL RULES (HCR)

This schedule is intended to guide the development of harvest strategies for priority stocks identified in Rec. 15-07 (North Atlantic albacore, North Atlantic swordfish, eastern and western Atlantic bluefin tuna, and tropical tunas). It provides an aspirational timeline that is subject to revision by the Commission, and should be considered in conjunction with the stock assessment schedule that is revised annually by the SCRS.

| | <i>NALB</i> | <i>BFT</i> | <i>NSWO</i> | <i>Tropicals</i> |
|------|--|--|-----------------------------------|--|
| 2015 | - Commission established management objectives in Rec. 15-04 | | | |
| 2016 | - SCRS conducted stock assessment SCRS evaluated a range of candidate HCRs through MSE - PA2 identified performance indicators | | | - Commission identified performance indicators [Rec. 16-01] |
| 2017 | - SCRS evaluated the performance of candidate HCRs through MSE, using the performance indicators developed by PA2 - SWGSM narrowed the candidate HCRs and referred to Commission - Commission selected and adopted an HCR with associated TAC at the Annual Meeting [Rec. 17-04] | - SCRS conducted stock assessment - Core modeling group completed development of modeling framework | - SCRS conducted stock assessment | - SCRS reviewed performance indicators for YFT, SKJ, and BET - SWGSM recommended a multispecies approach for development of MSE framework |

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|------|--|--|--|---|
| 2018 | <ul style="list-style-type: none"> - Call for Tenders issued for peer review - SCRS to develop criteria for the identification of exceptional circumstances - SCRS to continue testing variations of the HCR, as requested by 17-04 - Independent expert completed peer review of code | <ul style="list-style-type: none"> - SCRS conducted joint meeting on BFT/SWO MSE - SCRS reviewed reference set of operating models - SCRS begins testing candidate management procedures - SWGSM consider qualitative management objectives - WG reviewed progress and developed detailed road map | <ul style="list-style-type: none"> - SCRS conducted joint meeting on BFT/SWO MSE - Contract with MSE technical expert: develop OM framework; define initial set of OMs; initial conditioning of OMs - SWGSM to consider qualitative management objectives | <ul style="list-style-type: none"> - Contract with technical experts: start development of MSE framework - [SCRS to conduct stock assessment for bigeye tuna] - SWGSM/Panel 1* to consider qualitative management objectives |
| 2019 | <ul style="list-style-type: none"> - Commission may refine the interim HCR - Commission (through SWGSM/Panel 2) to develop guidance on a range of appropriate management responses should exceptional circumstances occur | <ul style="list-style-type: none"> - BFT MSE Technical Group meeting - Initiate independent peer review of MSE code - Finalize development of OM reference set - SCRS to evaluate additional management procedures¹ - SWGSM/Panel 2 meeting to agree operational management objectives and performance indicators for adoption by the Commission | <ul style="list-style-type: none"> - SWO Species Group meeting with MSE Session - Finalize reference set of OM and complete their conditioning - Begin testing candidate management procedures² - Conduct independent peer review of MSE code | <ul style="list-style-type: none"> - Stock assessment of yellowfin tuna - Continue development of MSE framework, and start development of candidate management procedures -TROP MSE session during species group week |
| 2020 | <ul style="list-style-type: none"> - ALB Species Group session at SCRS MSE meeting - Commission to adopt a long-term management procedure | <ul style="list-style-type: none"> - BFT MSE Technical meeting - SCRS to finalize evaluation of CMPs and proposal for determination of exceptional circumstances develop final advice to Commission³ | <ul style="list-style-type: none"> -SWO Species Group meeting with MSE Session⁴ | <ul style="list-style-type: none"> - Stock assessment for skipjack - Finalize reference set of OMs, complete their conditioning and start development of candidate management procedures |

¹ If progress is not appropriate start planning for a stock assessment of BFT in 2020

² If progress is not appropriate start planning for a stock assessment of SWO N in 2020

³ If MSE not completed as planned SCRS to conduct stock assessment for BFT 2020.

⁴ If MSE not completed as planned SCRS to conduct stock assessment for SWO N in 2020

| | <i>NALB</i> | <i>BFT</i> | <i>NSWO</i> | <i>Tropicals</i> |
|------|--|---|---|---|
| | | - Commission to adopt an interim management procedure | - SWGSM/Panel 4* meeting to agree on operational management objectives and performance indicators for adoption by the Commission - SCRS to finalize evaluation of CMPs and proposal for determination of exceptional circumstances | - Conduct independent peer review of MSE code - TROP MSE session during species group week |
| 2021 | Stock assessment for northern albacore | | - SWO MSE Technical Group meeting - Conduct final independent review of SWO MSE process and develop final advice for the Commission - Commission to adopt an interim management procedure | - TRO MSE Technical Group meeting - SWGSM/Panel 1 meeting to agree on operational management objectives for adoption by the Commission - SCRS to finalize evaluation of CMPs and proposal for determination of exceptional circumstances ⁵ |
| 2022 | | Stock assessment of BFT | Stock assessment of N SWO | - TRO MSE Technical Group meeting - Conduct final independent review of TRO MSE process and develop final advice for the Commission - Commission to adopt an interim management procedure ⁶ |
| 2023 | | | | - Stock assessment of BET and YFT |

* Panels may meet intersessionally, as appropriate.

⁵ If progress is not appropriate start planning for stock assessments of YFT and BET in 2022.

⁶ If progress is not appropriate conduct stock assessments of YFT and BET in 2022.