DRAFT ANNOTATED AGENDA
3RD TECHNICAL COMMITTEE ON MANAGEMENT PROCEDURES MEETING

V12 May 2019

Date: 14-15 June, 2019

Location: Hyderabad, India

Time: 0900–1700 daily

Co-Chairs: Susan Imende Ugandi (Commission Chair)**;** Hilario Murua (SC Chair)

Facilitator: Graham Pilling

14 of June Morning

1. OPENING OF THE SESSION AND ARRANGEMENTS (Co-Chairs)

2. ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION (Chairpersons)

- IOTC–2019–TCMP03–01a: Draft: Agenda for the 3rd Technical Committee on Management Procedures
- IOTC–2019–TCMP03–01b: Draft: Annotated Agenda for the 3rd Technical Committee on Management Procedures
- IOTC–2019–TCMP03–02: Draft: List of Documents for the 3rd Technical Committee on Management Procedures

3. ADMISSION OF OBSERVERS (Chairpersons)

4. DECISIONS OF THE COMMISSION RELATED TO THE WORK OF THE TECHNICAL COMMITTEE ON MANAGEMENT PROCEDURES (IOTC Secretariat)

4.1 Resolution 16/09 – Terms of Reference

- IOTC–2019–TCMP03–03: Resolution 16/09 On Establishing a Technical Committee on Management Procedures

4.2 Outcomes of the 2nd Session of TCMP

- IOTC–2019–TCMP03–04: Outcomes Of The 2nd Technical Commitee On Management Procedure

4.3 Outcomes of the 22nd Session of the Commission meeting

- IOTC–2019–TCMP03–05: Outcomes of The 22nd Session of the Commission

4.4 Outcomes of the 21st Session of the Scientific Committee

- IOTC–2019–TCMP03–06: Outcomes of the 21st Session of the Scientific Committee

5 **OVERVIEW OF THE EVALUATION OF MANAGEMENT PROCEDURES IN THE IOTC** (SC Chairperson)

5.1 The IOTC Process on adoption of management procedures (Including the Resolution 15/10 of the Management Framework) (SC Chair).

5.2 Management Procedures and MSE:

5.2.1 Basic principles

5.2.2 Roles and responsibilities, dialogue tools and feedback mechanism

5.3 SC proposal for the standard presentation of MSE results

6 HANDS-ON WORKSHOP – DEMONSTRATION OF MSE TOOL (Facilitator)

6.1 Demonstration of MSE tool

6.2 How to test different options on key inputs

6.3 HCR – MP creation
6.4 Discussion on trade-offs
6.5 Questionnaire

14 of June Afternoon

7 STATUS OF THE MANAGEMENT PROCEDURE EVALUATION/OPERATING MODELS (Facilitators)

7.1 Albacore tuna (Iago Mosqueira, Vice-Chairperson of the WPM)
- IOTC–2019–TCMP03–09: Indian Ocean Albacore Tuna Management Procedures Evaluation: Status Report

7.2 Bigeye tuna (Dale Kolody)
- IOTC–2019–TCMP03–10: IOTC Bigeye Tuna Management Procedure Evaluation Update June 2019

7.3 Yellowfin tunas (Dale Kolody)
- IOTC–2019–TCMP03–11: IOTC Yellowfin Tuna Management Procedure Evaluation Update June 2019

7.4 Skipjack tuna (Hilario Murua, Chairperson of the SC)
7.5 Swordfish (Daniela Rosa)
- IOTC–2019–TCMP03–12: Indian Ocean Swordfish Management Procedure - Status Report

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8 DISCUSSION ON THE ACTIONS NEEDED FOR THE ADOPTION OF MANAGEMENT PROCEDURES, INCLUDING BUDGET (Facilitator)

8.1 Albacore tuna
8.2 Yellowfin tuna
8.3 Skipjack tuna
8.4 Bigeye tuna
8.5 Swordfish

9 FUTURE DIRECTION OF THE TECHNICAL COMMITTEE ON MANAGEMENT PROCEDURES (Chairpersons)

9.1 Workplan (Including new timelines/budget and resources needed)
9.2 Priorities
9.3 Process and future meetings of TCMP

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10 ADOPTION OF REPORT (Chairpersons)

APPENDIX 1
TABLE OF PERFORMANCE INDICATORS ENDORSED BY SC18

Candidate performance statistics	Performance measure/s	Summary statistic
Measures: Sustainability		
Objective: probability of maintaining stock in the Kobe green zone		
Mean spawner biomass relative to unfished	SB/SB_0	Geometric mean over years
Minimum spawner biomass relative to unfished	SB/SB_0	Minimum over years
Mean spawner biomass relative to B_{MSY}	SB/SB_{MSY}	Geometric mean over years
Mean fishing mortality relative to target	F/F_{targ}	Geometric mean over years
Mean fishing mortality relative to F_{MSY}	F/F_{MSY}	Geometric mean over years
Probability of being in Kobe green quadrant	SB, F	Proportion of years that $SB \geq SB_{targ}$ & $F \leq F_{targ}$
Probability of being in Kobe red quadrant	SB, F	Proportion of years that $SB < SB_{targ}$ & $F > F_{targ}$
Measures: Safety		
Objective: maximize the probability of the stock remaining above the biomass limit		
Probability that spawner biomass is above 20% of SB_0	SB	Proportion of years that $SB > 0.2SB_0$
Measures: Yield		
Objective: maximize catches across regions and gears		
Mean catch	C	Mean over years
Mean catch by region and/or gear	C	Mean over years
Mean proportion of MSY	C/MSY	Mean over years
Abundance: maximize catch rates to enhance fishery profitability		
Mean catch rates by region and gear	A	Geometric mean over years
Measures: Stability in catches		
Objective: maximise stability in catches to reduce commercial uncertainty (i.e. minimise year-to-year fluctuations in catches		
Mean absolute proportional change in catch	C	Mean over years of absolute (C_t / C_{t-1})

Candidate performance statistics	Performance measure/s	Summary statistic
Variance in catch	C	Variance over years
Variance in fishing mortality	F	Variance over years
Probability of fishery shutdown	C	Proportion of years that C = 0

Note: All the candidate performance statistics are summarised using the XX^{th} percentiles (e.g. XX=5/10/50) of their distributions over multiple stochastic realisations. The summary will include short and long-term time windows (e.g. 1, 3, 5, 10 and 20 years).