

## Report of the 2<sup>nd</sup> Workshop on Connecting the IOTC Science and Management Processes (SMWS02)

Cape Town, South Africa, 20-22 September 2014



## DISTRIBUTION:

Participants in the Session Members of the Commission Other interested Nations and International Organizations FAO Fisheries Department FAO Regional Fishery Officers

#### **BIBLIOGRAPHIC ENTRY**

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#### **ACRONYMS**

IOTC	Indian Ocean Tuna Commission	

DAFF Department of Agriculture Fisheries and Forestry (South Africa)

CMM Conservation and Management Measure (of the IOTC; Resolutions and Recommendations)

CPCs Contracting parties and cooperating non-contracting parties

SMWS Science to Management Workshop (Workshop on Connecting the IOTC Science and Management

Processes

#### **BACKGROUND**

At its 17<sup>th</sup> Session in 2013, the Commission agreed to further support capacity building activities among its Members by implementing adequate capacity building and support programmes, financially supported by Members through the Commission's budget, as well as through voluntary contributions by CPCs and other interested parties.

The three-day workshop 20–22 September 2014 in Cape Town, South Africa was financed through a cooperation agreement between the Australian Government and the IOTC. The workshop occurred in the days following the Regional Stock Assessment Workshop (15–19 September) so that some of the scientists may attend both meetings to further improve the linkages with managers. The overall objective was to have at least one scientist and manager together in the workshop from any given CPC.

The aims of the three-day workshop were to:

- improve the level of comprehension among IOTC Members on how the scientific process informs the management of IOTC species and ecosystems
- increase the awareness of IOTC Members to their obligations, as stipulated in the Commissions' Conservation and Management Measures which are based on rigorous scientific advice
- Improve the decision making process within the IOTC.

The workshop covered the following core topics:

- Structure and functioning of the IOTC
- Current status of IOTC stocks
- Communicating IOTC science to managers
- Lessons to be learnt from other fisheries management structures
- How to interpret science advice as a manager
- Country level implications arising from stock assessment results and management options analyses
- How the Commission uses Science advice to develop Conservation and Management Measures
- Implications of current Conservation and Management Measures for CPCs
- Negotiations in the Commission
- Effects of poor compliance with IOTC requirements on the provision of scientific advice and management.

The **target audience** for the workshop were chief national scientists and policy advisers/managers, who support IOTC Commissioners from developing coastal states.

The participation of developing coastal state CPCs of the IOTC was supported through the Capacity Building budget line of the IOTC budget for 2014 and through support from Australia Government (Department of Agriculture, Forestry and Fisheries).

The workshop was delivered by Rondolph Payet (Executive Secretary, IOTC), Dr. David Wilson (Deputy Secretary/Science Manager, IOTC), Dr. Rishi Sharma (Fishery Officer – Stock Assessment, IOTC). A total of 15 participants attended the workshop. A list of participants is provided at <u>Appendix I</u>.

#### APPROACH AND WORKSHOP CONTENT

The workshop was run in the format of lectures/presentation followed by case studies, open discussion and practical exercise by participants and revolved around the following four key topics:

- 1) Background to IOTC & the management of highly migratory species
- 2) How scientific advice is generated and effectively communicated (Theory and practice)
- 3) The decision making process based on advice received and drafting an IOTC Conservation and Management Measures
- 4) Some guideline on how to improve the negotiation process of conservation and management measures
- 5) National implementation and compliance with decisions of the Commission and national structures to support such implementation.

Participants made a few proposals on how the science to management process can improve within the IOTC community

- 1. Translation of IOTC CMMS into national legislations
- 2. The lack of timely opportunities for managers to interact with scientist on the advice provided in the Scientific Report.
- 3. Capturing the NGO support in improving Science to management process capacity building

4. Secretariat to be involved in the pre-commission coastal States meetings to enhance their capacity.

The Agenda is provided at <u>Appendix II</u>, and all of the presentations made are available from the IOTC website: <a href="http://iotc.org/meetings/2nd-workshop-connecting-iotc-science-and-management-processes">http://iotc.org/meetings/2nd-workshop-connecting-iotc-science-and-management-processes</a>

#### **WORKSHOP EFFECTIVENESS**

A survey was designed for feedback at the end of the workshop (<u>Appendix III</u>) and the results are summarised in <u>Appendix IV</u>.

The overall ratings for the SMWS02, as per question 7 in the feedback survey were as follows:

Rating	Number of responses	% score	
Not relevant	0	0	
Satisfactory	0	0	
Good	3	21.43	
Excellent	10	71.43	
Outstanding	1	7.14	
Total	14	100	

#### **FUTURE WORKSHOPS**

The IOTC Secretariat is in the process mobilising extra-budgetary funds for the next series of workshops of Science to Management, most likely in early/late 2015.

## APPENDIX I LIST OF PARTICIPANTS

**Facilitators** 

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#### APPENDIX II

## AGENDA – 2<sup>ND</sup> WORKSHOP ON CONNECTING THE IOTC SCIENCE AND MANAGEMENT PROCESSES (SMWS02)

**Date:** 20st–22nd September, 2014 **Location:** Capetown, S. Africa Venue: Victoria Junction Hotel, Capetown **Time:** 09:00 – 17:00 daily

Facilitators: Mr Rondolph Payet; Dr David Wilson & Dr Rishi Sharma

- OPENING OF THE MEETING AND ARRANGEMENTS FOR THE WORKSHOP (Mr Rondolph Payet)
- 2. OVERVIEW: CORE OBJECTIVES OF THE WORKSHOP AND HOW THEY WILL BE ACHIEVED (Dr David Wilson)
- 3. THE STRUCTURE AND FUNCTIONING OF THE IOTC PROCESS (Mr Rondolph Payet)
- 4. STOCK ASSESSMENT METHODS AND INDICATORS (Dr Rishi Sharma)
  - 4.1 The basic data types used by models; effects of problems in these data types (overview of poor data submissions)
  - 4.2 The Kobe plot and Kobe 2 Management Strategy Matrix (K2MSM)
  - 4.3 What are acceptable levels of risk for management? Interpreting the Kobe plot and K2MSM
  - 4.4 Discussion and practical session
- 5. MANAGEMENT STRATEGY EVALUATION (Dr Rishi Sharma & Dr David Wilson)
  - 5.1 Precautionary approach: target and limit reference points (MSY and other commonly used reference points): why is this important for management (science advice, management objectives)
  - 5.2 Why harvest control rules and why do we need the MSE process? (Benefits)
  - 5.3 Exercise on setting an objective for a tuna coastal fishery (MSY, Social/economic objectives)
- 6. DEVELOPMENT AND EFFECTIVE COMMUNICATION OF SCIENTIFICALLY-BASED MANAGEMENT ADVICE (Dr

David Wilson; Dr Rishi Sharma)

- 6.1 Case study: How IOTC Working Parties develop management advice (IOTC Species executive summaries)
- 6.2 Case study: How to interpret IOTC Species Executive Summaries
- 6.3 Case study: Pitfalls of waiting too long or being too quick to provide scientifically-based management advice
- Practical session: Participants to develop and communicate scientifically-based management advice from the Scientific Committee to the Commission for use in the development of a management measure
- 7. IOTC CONSERVATION AND MANAGEMENT MEASURES (Dr David Wilson; Dr Rishi Sharma)
  - 7.1 Defining and interpreting an IOTC Conservation and Management Measure (key elements)
  - 7.2 IOTC Compendium of Active Conservation and Management Measures
  - 7.3 Case study: How the Commission has used and not used scientifically-based management advice in the development of its Conservation and Management Measures
  - 7.4 Case study: How to develop a proposal for a Conservation and Management Measure
  - 7.5 Case study: Pitfalls of waiting too long or being too quick to develop a proposal for a CMM
  - 7.6 Practical session: Participants to develop and present a proposal for a CMM based on scientifically-based management advice
- B. IMPLEMENTATION OF MANAGEMENT ACTIONS (Mr Rondolph Payet)
  - 8.1 Obligations of IOTC Members in the implementation of IOTC CMMs
  - 8.2 Effects of poorly implemented management actions
  - 8.3 Decision making processes and implementation within the IOTC
  - 8.4 Negotiating in multilateral environments
  - 8.5 Discussion
- 9. OTHER BUSINESS
  - 9.1 Workshop evaluation



## APPENDIX III **SMWS02:** Course survey

## 2<sup>ND</sup> WORKSHOP ON CONNECTING THE IOTC SCIENCE AND MANAGEMENT PROCESSES (SMWS02) CAPE TOWN, SOUTH AFRICA 20-22 SEPT. 2014

## Course survey

Please answer the questions as to relevance (Circle your answer)

- 1. What is your role within your organisation? 2. Policy advisor/maker 3. Research Scientist/Advisors 4. Other 1. Manager 2. Did you find this course useful? 1. Not relevant 2. Somewhat relevant 3. Relevant 4. Highly Relevant 3. Would you want to attend another course, in more depth as a follow up? 1. No. 2. Unsure 3. Maybe. 4. Yes 5. Undoubtedly Yes 4. Would more exercises/practicals make the material easier to understand? 1. No 2. Unsure 3. Maybe. 4. Yes 5. Undoubtedly Yes
- 5. Is there a need for more workshops and trainings of this sort?
  - 1. No 2. Yes 3. Maybe
- 6. Please rate each of the sections of the use in terms of how useful you found it to be:

## Agenda Item 3: The structure and functioning of the IOTC process

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

## Agenda Item 4: Stock assessment methods and indicators

1. Not relevant 4. Excellent 2. Satisfactory 3. Good. 5. Outstanding

## Agenda Item 5: Management Strategy Evaluation

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

Agenda Item 6: Development and effective communication of scientifically-based management advice

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

Agenda Item 7: IOTC Conservation and Management Measures

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

Agenda Item 8: Implementation of management actions

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

7. Overall course rating.

1. Not relevant 2. Satisfactory 3. Good. 4. Excellent 5. Outstanding

Other comments:

# APPENDIX IV SMWS02: SURVEY RESULTS

Survey question			Response		
1) What is your role within your organization?	Manager = 6	Policy advisor/maker = 4	Research scientist/ advisor = 4	Other = 0	
2) Did you find this course useful?	Not relevant $= 0$	Somewhat relevant $= 0$	Relevant = 8	Highly relevant = 6	No response = 0
3) Would you want another course, in more depth as a follow up?	No = 0	Unsure = 0	Maybe = 0	Yes = 7	Undoubtedly Yes = 7
4) Would more exercises/practicals make the material easier to understand?	No = 0	Unsure = 1	Maybe = 0	Yes = 8	Undoubtedly Yes = 5
5) Is there a need for more workshops and trainings of this sort?	Yes = 11	No = 0	Maybe = 3		
6) Please rate each of the sections of the use in terms of how useful you found it to be:					
Agenda Item 3: The structure and functioning of the IOTC process	Not relevant = 0	Satisfactory = 1	Good = 4	Excellent = 8	Outstanding = 1
Agenda Item 4: Stock assessment methods and indicators	Not relevant = 0	Satisfactory = 0	Good = 7	Excellent = 6	Outstanding = 1
Agenda Item 5: Management Strategy Evaluation	Not relevant $= 0$	Satisfactory = 1	Good = 6	Excellent $= 6$	Outstanding = 1
Agenda Item 6: Development and effective communication of scientifically-based management advice	Not relevant = 0	Satisfactory = 1	Good = 5	Excellent = 5	Outstanding = 3
Agenda Item 7: IOTC Conservation and Management Measures	Not relevant = 0	Satisfactory =0	Good = 3	Excellent = 10	Outstanding = 1
Agenda Item 8: Implementation of management actions	Not relevant = 0	Satisfactory = 1	Good = 1	Excellent = 9	Outstanding = 1
7) Overall course rating	Not relevant = 0	Satisfactory = 0	Good = 3	Excellent = 10	Outstanding = 1

#### Other comments (from participants on survey):

The workshop organisation was excellent particularly the working groups made up of small groups that allowed active participation

Participants were given adequate time to discuss issues and received clear answers

The objectives of the workshop have been achieved.

Consider doing the workshop separate and not back-to-back to another workshop so that participants will be able to follow and concentrate.

Time too short to grasp everything. Well done.

I recommend that IOTC holds another workshop by evaluating each country CMM plans and procedures through a country report and find solutions and practical way to decrease the weakness of country to an acceptable level.

This is very good and we should have more of these workshops.