



PROGRESS MADE ON THE RECOMMENDATIONS AND REQUESTS OF WPM05 AND SC17

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PURPOSE

To provide participants at the 6th Working Party on Methods (WPM) with an update on the progress made in implementing those recommendations from the previous WPM meeting which were endorsed by the Scientific Committee (SC), and to provide alternative recommendations for the consideration and potential endorsement by participants as appropriate given any progress.

BACKGROUND

At the 5th Session of the WPM, participants agreed on a series of actions to be taken by participants, CPCs, and the IOTC Secretariat on a range of issues. The subsequent table developed and agreed to by the WPM was provided to the SC for its endorsement at its December 2014 meeting.

DISCUSSION

The Rules of Procedure of the Scientific Committee include the following seven core tasks, which are to be supported by the various Working Parties.

- a) recommend policies and procedures for the collection, processing, dissemination and analysis of fishery data;
- b) facilitate the exchange and critical review among scientists of information on research and operation of fisheries of relevance to the Commission;
- c) develop and coordinate cooperative research programmes involving Members of the Commission in support of fisheries management;
- d) assess and report to the Commission on the status of stocks of relevance to the Commission and the likely effects of further fishing and of different fishing patterns and intensities;
- e) formulate and report to the sub-commission, as appropriate, on recommendations concerning conservation, fisheries management and research, including consensus, majority and minority views;
- f) consider any matter referred to by the Commission;
- g) carry out other technical activities of relevance to the Commission.

Recalling that the SC, at its 16th Session adopted a set of reporting terminology SC16.07 (para. 23), which was subsequently endorsed by the Commission at its 18th Session in 2014 (S18, para 10), to further improve the clarity of information sharing from, and among the science bodies, the following two term levels should be noted when interpreting the Reports and <u>Appendix I</u> to this paper:

Level 1: From a subsidiary body of the Commission to the next level in the structure of the Commission:

RECOMMENDED, **RECOMMENDATION**: Any conclusion or request for an action to be undertaken, from a subsidiary body of the Commission (Committee or Working Party), which is to be formally provided to the next level in the structure of the Commission for its consideration/endorsement (e.g. from a Working Party to the Scientific Committee; from a Committee to the Commission). The intention is that the higher body will consider the recommended action for endorsement under its own mandate, if the subsidiary body does not already have the required mandate. Ideally this should be task specific and contain a timeframe for completion.

Level 2: From a subsidiary body of the Commission to a CPC, the IOTC Secretariat, or other body (not the Commission) to carry out a specified task:

REQUESTED: This term should only be used by a subsidiary body of the Commission if it does not wish to have the request formally adopted/endorsed by the next level in the structure of the Commission. For example, if a Committee wishes to seek additional input from a CPC on a particular topic, but does not wish to formalise the request beyond the

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mandate of the Committee, it may request that a set action be undertaken. Ideally this should be task specific and contain a timeframe for the completion.

In addition to the Recommendations endorsed by the SC at its 17th Session, the SC also made several requests which, although are not passed to the Commission for its endorsement, are considered actions which the Scientific Committee has the mandate to issue. The revised recommendations are contained in Appendix I for the consideration and potential endorsement by the WPM06.

RECOMMENDATION

That the WPM **NOTE** the progress made in implementing the recommendations and requests of the 5th Session of the WPM, and consider whether revised recommendations need to be sent to the SC for its consideration.

APPENDICES

Appendix I: Progress made on the Recommendations and Requests of WPM05



APPENDIX I

Progress made on the recommendations and requests of WPM05 and SC17

WPM05	Recommendation from WPM05	SC17	Recommendation adopted by the SC17	Progress/Comments
Rec. No.		Rec. No.	- '	Ü
WPM05.	Update from the SC16 ad S18	Nil	Nil	Update: Nil
01	(para. 6): The WPM RECOMMENDED the Scientific			
	Committee considers how to best enhance scientific			
	dialogue and communication and utilises the tools			
	developed by the WPM to achieve their objectives.			
WPM05.	Skipjack tuna MSE update	See	See below	Update: [Ongoing] – [See below]
02	(<u>para. 20</u>): The WPM also NOTED the difficulty of	below		
	estimating MSY based reference levels for the most recent			
	skipjack assessment and RECOMMENDED, in keeping			
	with other RFMOs experiencing similar difficulties, to base			
	reference points on biomass depletion ratios, which are			
	generally more stable and less influenced by modelling			
	assumption than MSY based reference points. WPM			
	NOTED that other tRFMOs SCs have advised that in			
	circumstances where information is insufficient for precise			
	estimation of MSY based reference points, that a limit			
	biomass reference level of 0.2B ₀ be applied in management			
	procedures and that appropriate alternatives for B_{MSY} are			
	generally in the range of 0.3-0.4B ₀ . The WPM			
	CONSIDERED that these reference points were also			
	appropriate for IO Skipjack fisheries and NOTED that a			
	value of 0.4B ₀ is commonly applied in other fishery			
	management organizations for stocks which have limited			
	information of use in estimating MSY reference levels.			
WPM05.	(<u>para. 27</u>): The WPM also NOTED that the consultancy that	SC17.32	The SC NOTED that the consultancy that has been used to	Update: [Ongoing] – Various sources
03	has been used to develop the simulation tools and initial	(<u>para.</u>	develop the simulation tools and initial evaluations of some	of funding external to IOTC have
	evaluations of some candidate Management Procedures has	<u>110</u>)	candidate Management Procedures has run to completion.	allowed the consultant to continue this
	run to completion. WPM also NOTED that additional work		Additional work is required to support the Commission's	work. No funds for this purpose were
	is required to support the Commission's desire to implement		desire to implement management approaches that can	provided by the Commission.
	management approaches that can achieve its Convention		achieve its objectives. In this regard, the SC	
	Objectives. In this regard, the WPM RECOMMENDED		RECOMMENDED that the Commission fully fund the	
	that the Commission fully fund the work needed to support		work needed to support its requirement to achieve its	
	its requirement to achieve its Convention Objectives in		objectives in particular facilitating the implementation of	



	particular facilitating the implementation of Resolution 12/01.		Resolution 12/01.	
WPM05. 04	Setting management objectives of MSE for IOTC stocks (para. 33): The WPM NOTED this list of management objectives presented in IOTC-2014-WPM05-09 is a starting point to provide an idea of the different possible objectives and means of measuring the performance against these objectives and RECOMMENDED the Scientific Committee review and develop this list (Table 1) as appropriate to help dialogue with the Commission (Resolution 14/03 On Enhancing the Dialogue between fisheries scientists and managers).	Nil	Nil	Update: [Ongoing] – The Table will be reviewed by the WPM06 and tabled for consideration and potential adoption by the SC in November 2015.
WPM05. 05	(para. 37): The WPM AGREED that reference points are markers against which management procedures are evaluated, and around which they may be designed rather than something to be evaluated themselves. The WPM NOTED that the MSE process by itself will not result in new recommendations for limit reference points and, in the case of target reference points more specific guidance on tolerable risks will be required. The WPM RECOMMENDED that the SC elicit discussion and subsequent guidance from the Commission.	Nil	Nil	Update: [Ongoing] – The matter has been part of the discussion during the MPD02, held prior to the Commission meeting in 2015. Resolution 15/10 requests again that "The IOTC Scientific Committee [] to assess the appropriateness of the limit reference points (LRP) and target reference points (TRP)"
WPM05. 06	Evaluation of current reference points and possible alternative reference points for management (para. 39): The WPM AGREED that in cases where MSY reference points are difficult to estimate, alternative reference point based on depletion ratios are preferable. Thus the WPM NOTED that an alternative would be to use reference points with respect to B ₀ (i.e. targets that could be 0.4B ₀ or higher, and F would be the estimated F corresponding to the biomass target, if a precautionary buffer against reaching a biomass limit is desirable). The WPM NOTED that this is similar to what is currently taking place in other RFMOs such as WCPFC and RECOMMENDED that the use of this type of reference point is considered by the SC.	SC17.27 (para. 103) SC17.28 (para. 104) SC17.29 (para. 105)	Limit reference points The SC RECOMMENDED the Commission consider an alternative approach to identify biomass limit reference points, such as those based on biomass depletion levels, when the MSY-based reference points are difficult to estimate. In cases where MSY-based reference points can be robustly estimated, limit reference points may be based around MSY. The SC RECOMMENDED that in cases where MSY-based reference points cannot be robustly estimated, biomass limit reference points be set at 20% of unfished levels (B _{LIM} = 0.2B ₀). Target reference points NOTING that the interim target reference points contained in Resolution 13/10 are also MSY-based and subject to the same difficulties with robust estimation, the SC RECOMMENDED that the Commission consider that stock biomass depletion levels equivalent to B _{MSY} are	Update: [Ongoing] – IOTC Resolution 15/10 adopts the use of Virgin biomass-based reference points for a stock for which estimation of MSY-based reference points is unreliable or not possible. The use of one or the other will depend on the view of Scientific Committee in 2015.



SC17.30 (Instrat_105) SC17.31 SC17.31 SC17.31 SC17.32 SC17.32 SC17.33 (Instrat_105) SC17.34 SC17.35 SC17.35 SC17.36 (Instrat_105) SC17.35 SC17.36 (Instrat_105) SC17.37 SC17.37 SC17.37 SC17.38 (Instrat_105) SC17.38 SC17.39 SC17.39 SC17.39 SC17.39 SC17.31 SC17.31 SC17.31 SC17.31 SC17.31 SC17.31 SC17.31 SC17.31 SC17.32 SC17.32 SC17.33 SC17.34 SC17.35 SC17.35 SC17.35 SC17.35 SC17.35 SC17.36 SC17.37 SC17.36 SC17.37 SC17.37 SC17.38 SC17.38 SC17.39 SC17		
funding sources.	In the large of	





WPM05.	(para. 47): The WPM RECOMMENDED that the	As per the above and in the SC17 Report.	Update: [Completed]
08	Scientific Committee consider the consolidated set of		
	recommendations arising from WPM05, provided at		
	Appendix V.		

WPM05 Report	WPM05 REQUESTS	Update/Progress
Para. 17	Skipjack tuna MSE: update The WPM WELCOMED the contribution and NOTED that the approach is appropriate for advising the Commission on trade-offs related to multiple, and at times, conflicting management objectives. It was also NOTED that the modelling should encompass the most plausible range of parameters (e.g. growth curve, natural mortality, spatial structure etc.) based on expert knowledge and the WPM REQUESTED that an intersessional working group of WPTT scientists is held to review and revise this information as necessary, before April 2015. The WPM ENCOURAGED the authors to present the results of this work at the next WPTT in 2015.	