

## PROGRESS MADE ON THE RECOMMENDATIONS AND REQUESTS OF WPNT05 AND SC18

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LAST UPDATED: 24 MAY 2016

### PURPOSE

To provide participants at the 6<sup>th</sup> WPNT with an update on the progress made in implementing those recommendations from the previous Working Party on Neritic Tunas (WPNT) 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 WPNT, 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 WPNT was provided to the SC for its endorsement at its November 2015 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 16<sup>th</sup> Session adopted a set of reporting terminology SC16.07 (para. 23), which was subsequently endorsed by the Commission at its 18<sup>th</sup> 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 [Appendix I](#) 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 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.

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In addition to the Recommendations endorsed by the SC at its 18<sup>th</sup> 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 WPNT06.

#### **RECOMMENDATION**

That the WPNT **NOTE** the progress made in implementing the recommendations and requests of the 5<sup>th</sup> Session of the WPNT, 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 WPNT05.](#)

## APPENDIX I

### Progress made on the Recommendations and Requests of WPNT05 and SC18

WPNT05 Rec. No.	Recommendation from WPNT05	SC18 Rec. No.	Recommendation adopted by the SC18	Progress/Comments
WPNT05. 01	<p><b>Capacity building workshop</b></p> <p>(para. 83) <b>NOTING</b> that capacity building in this area of work is needed with funding to enable countries to compile this raw data needed as a first step, the <b>WPNT RECOMMENDED</b> that a workshop is organised by the IOTC Secretariat in collaboration with WWF-Pakistan to analyse the data sets collaboratively using a meta-analysis based approach. WWF Pakistan have offered to provide support specifically for the north western Indian Ocean countries but that additional funding will be needed for the participation of other CPCs. This workshop would also include training for people in data poor assessment approaches, as well as possibly focus on basic data for assessments, like CPUE and how to standardise such data.</p>	SC18.09 Para. 29	The SC <b>RECOMMENDED</b> that a workshop is organised by the IOTC Secretariat in collaboration with WWF-Pakistan to analyse the datasets collaboratively using a meta-analysis based approach. WWF Pakistan have offered to provide support specifically for the north western Indian Ocean countries but additional funding will be needed for the participation of other CPCs. This workshop would also include training for people in data poor assessment approaches, as well as possibly focus on basic data for assessments, like CPUE and how to standardise such data.	Update: <b>[Ongoing]</b> – provisionally approved by the S20
WPNT05. 02	<p><b>Integrated stock assessment methods</b></p> <p>(para. 100) The WPNT <b>RECOMMENDED</b> that alternative methods should be explored for similar analyses in the future for other species such as longtail tuna and narrow-barred Spanish mackerel.</p>	SC18. Para. 153	This was approved in the Program of work (Appendix XXXIV of the SC18 report – see below) under point 4. Funding will be allocated from the IOTC Regular Budget.	Update: <b>[Ongoing]</b> – Terms of reference for a consultancy have been drawn up for the work (on longtail tuna) to take place prior to WPNT07 in 2017

WPNT05. 03	<p><b>Data input for stock assessments</b></p> <p>(Para. 217) <b>ACKNOWLEDGING</b> the importance of indices of abundance for future stock assessments, the <b>WPNT RECOMMENDED</b> that the development of standardised CPUE series is explored before the next assessment. An indicative budget is provided (Table 22).</p> <p><b>Table 22.</b> Estimated costs for an inter-sessional meeting to investigate CPUE standardisation from the neritic tuna fleets (Indonesia, I.R. Iran and India (3 total), possibly Kenya and Thailand (2 alternatively if this doesn't work)) operating in the IOTC area of competence.</p>	SC18 Para. 32	<p>The SC <b>AGREED</b> on the importance of the further development of indices of abundance for future neritic tuna stock assessments, and that the development of standardised CPUE series is explored before the next assessment with the assistance of a consultant, as detailed in Table 1.</p> <p><b>Table 1.</b> Estimated budget required to hire a consultant to carry out stock assessments on tuna and tuna-like species under the IOTC mandate, sharks frequently caught by IOTC fisheries, and capacity building, in 2017 and 2018, noting that the 2016 budget has already been approved by the Commission.</p>	Update: <b>[Ongoing]</b> — provisionally approved by the S20
WPNT05. 04	<p><b>Presentation of results for management advice</b></p> <p>(para_226) The WPNT <b>RECOMMENDED</b> that the SC ask the WPM evaluate the proposed methodology and further develop this method of presenting management advice for data poor stocks.</p>		Not accepted - referred to the WPM for discussion.	
WPNT05. 05	<p><b>Capacity building budget</b></p> <p>(para. 247) The WPNT <b>RECOMMENDED</b> that the SC request that the Commission further increases the IOTC Capacity Building budget line so that capacity building training on data analysis and applied stock assessment approaches, with a priority being data poor approaches, can be carried out in 2016.</p>	SC18.25 Para.99  SC18.26 Para. 100	<p>The SC <b>AGREED</b> that, while external funding is helping the work of the Commission, funds allocated by the Commission to capacity building are still too low, considering the range of issues identified by the SC and its Working Parties, and <b>RECOMMENDED</b> that the Commission consider allocating more funds to these activities in the future.</p> <p>The SC <b>RECOMMENDED</b> that Commission further increases the IOTC Capacity Building budget line so that capacity building training on data analysis and applied stock assessment approaches, with a priority being data poor approaches, can be carried out in 2016.</p>	Update: <b>[Ongoing]</b> – The Commission at its 18 <sup>th</sup> Session in 2014 approved a Capacity Building budget of US\$115,000 for 2015 and 2016.
WPNT05. 06	<b>Program of Work</b>	SC18.	<b>Program of Work</b>	Update: <b>[Ongoing]</b> The Program of Work for 2016–2020,

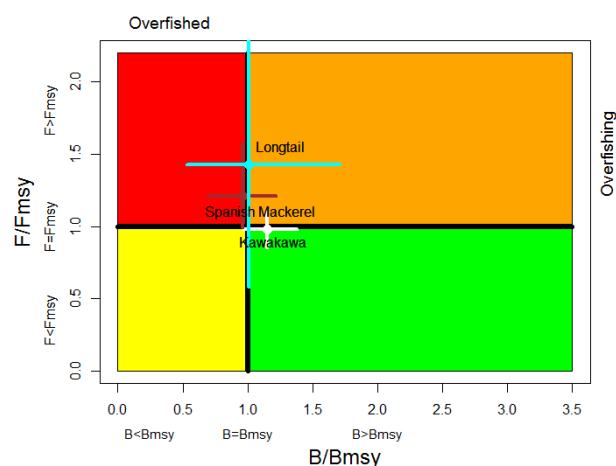
	(para. 248) The WPNT <b>RECOMMENDED</b> that the SC consider and endorse the WPNT Programme of Work (2016–2020), as provided at Appendix VI.	Para. 153	The SC <b>NOTED</b> the proposed Program of Work and priorities for the Scientific Committee and each of the Working Parties and <b>AGREED</b> to a consolidated Program of Work as outlined in <u>Appendix XXXIV</u> . The Chairpersons and Vice-Chairpersons of each working party shall ensure that the efforts of their working party are focused on the core areas contained within the appendix, taking into account any new research priorities identified by the Commission at its next Session.	as adopted by the Scientific Committee is available for download from the IOTC website: <a href="http://iotc.org/science/wp/working-party-neritic-tunas-wpnt">http://iotc.org/science/wp/working-party-neritic-tunas-wpnt</a>
WPNT05.07	(para. 254) The WPNT <b>RECOMMENDED</b> that the invited expert works with CPCs to pull together all data for Indian Ocean stocks and undertake a meta-analysis or hierarchical approach to analyse the data. This should be combined with capacity building activities in data poor stock assessment techniques. An indicative budget is provided at Table 23.  <b>Table 23.</b> Estimated budget required to hire a consultant to carry out a workshop for data mining and capacity building on neritic tuna and tuna-like species in 2016 and 2017.	SC18.09 Para. 29	The SC <b>RECOMMENDED</b> that a workshop is organised by the IOTC Secretariat in collaboration with WWF-Pakistan to analyse the datasets collaboratively using a meta-analysis based approach. WWF Pakistan have offered to provide support specifically for the north western Indian Ocean countries but additional funding will be needed for the participation of other CPCs. This workshop would also include training for people in data poor assessment approaches, as well as possibly focus on basic data for assessments, like CPUE and how to standardise such data.	Update: <b>[Ongoing]</b> –
WPNT05.08	<b>Meeting participation fund (MPF)</b>  (para. 260) The WPNT participants were unanimous in their thanks for the support for their participation in the meeting due to the MPF and <b>RECOMMENDED</b> that the Scientific Committee also consider the WPNT06 as a high priority meeting for MPF.	SC18.24	(para. 98) The SC <b>RECOMMENDED</b> that the IOTC Rules of Procedure (2014), for the administration of the Meeting Participation Fund be modified so that applications are due not later than 60 days, and that the full <u>Draft</u> paper be submitted no later than 45 days before the start of the relevant meeting. The aim is to allow the Selection Panel to review the full paper rather than just the abstract, and provide guidance on areas for improvement, as well as the suitability of the application to receive funding using the IOTC MPF. The earlier submission dates would also assist with Visa application procedures for candidates.	Update: <b>[Ongoing]</b> –  The Commission <b>AGREED</b> that the MPF budget remains important and therefore provisions according to the estimated needs will be integrated into the budget (para. 39).  The 19 <sup>th</sup> Session of the Commission has allocated \$150,000 for both science and non-science meetings for 2016 and indicative for 2017 (para. 106).  SCAF13-10 (Para. 40) The SCAF <b>RECOMMENDED</b> that a document

				on the financial status of the MPF, including past expenditures and future projections, be made available for future Sessions.
WPNT05.09	<p>(para. 261) The WPNT <b>RECOMMENDED</b> that the SC and Commission note the following:</p> <p>1) The participation of developing coastal state scientists to the WPNT has been consistently high following the adoption and implementation of the IOTC Meeting Participation Fund adopted by the Commission in 2010 (Resolution 10/05 <i>On the establishment of a Meeting Participation Fund for developing IOTC Members and Non-Contracting Cooperating Parties</i>), now incorporated into the IOTC Rules of Procedure (2014), as well as though the hosting of the WPNT in developing coastal State Contracting Parties (Members) of the Commission (Table 21).</p> <p>2) The continued success of the WPNT, at least in the short term, appears heavily reliant on the provision of support via the MPF which was established primarily for the purposes of supporting scientists to attend and contribute to the work of the Scientific Committee and its Working Parties.</p> <p>3) The MPF should be utilised so as to ensure that all developing Contracting Parties of the Commission are able to attend the WPNT meeting, as neritic tunas are very important resources for many of the coastal countries of the Indian Ocean.</p>		<p>(para. 98) The SC <b>RECOMMENDED</b> that the IOTC Rules of Procedure (2014), for the administration of the Meeting Participation Fund be modified so that applications are due not later than 60 days, and that the full <u>Draft</u> paper be submitted no later than 45 days before the start of the relevant meeting. The aim is to allow the Selection Panel to review the full paper rather than just the abstract, and provide guidance on areas for improvement, as well as the suitability of the application to receive funding using the IOTC MPF. The earlier submission dates would also assist with Visa application procedures for candidates.</p>	<p>Update: <b>[Ongoing]</b> –</p> <p>The Commission <b>AGREED</b> that the MPF budget remains important and therefore provisions according to the estimated needs will be integrated into the budget (para. 39 S20 draft report).</p> <p>The 19<sup>th</sup> Session of the Commission has allocated \$150,000 for both science and non-science meetings for 2016 and indicative for 2017 (para. 106).</p> <p>SCAF13-10 (Para. 40) The SCAF <b>RECOMMENDED</b> that a document on the financial status of the MPF, including past expenditures and future projections, be made available for future Sessions.</p>
WPNT05.10	<p><i>Review of the draft, and adoption of the Report of the 5<sup>th</sup> Working Party on Neritic Tunas</i></p> <p>(para. 262) The WPNT <b>RECOMMENDED</b> that the Scientific Committee consider the consolidated set of recommendations arising from WPNT05, provided at Appendix XIII, as well as the management advice provided in the draft resource stock status summary for each of the six neritic tuna (and mackerel) species</p>	SC18.03	<p><i>Tuna and seerfish – Neritic species</i></p> <p>(para. 124) The SC <b>RECOMMENDED</b> that the Commission note the management advice developed for each neritic tuna (and mackerel) species under the IOTC mandate, as provided in the Executive Summary for each species, and the combined Kobe plot for the three species assigned a stock status in 2015 (Fig. 6):</p> <ul style="list-style-type: none"> <li>o Bullet tuna (<i>Auxis rochei</i>) – <u>Appendix XVII</u></li> </ul>	<p>Update: <b>[Ongoing]</b> –</p> <p>The Commission <b>NOTED</b> the latest stock status and management advice for each of the 16 species under the IOTC mandate, as well as seven shark species/groups directly impacted by vessels fishing for tuna and tuna-like species, contained in the stock status</p>



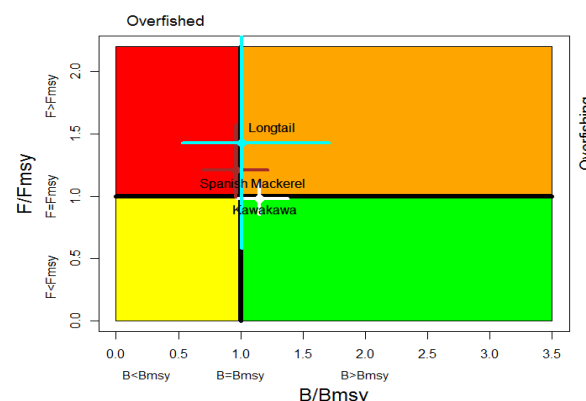
under the IOTC mandate, and the combined Kobe plot for the three species assigned a stock status in 2015 (Fig. 15):

- bullet tuna (*Auxis rochei*) – Appendix VII
- frigate tuna (*Auxis thazard*) – Appendix VIII
- kawakawa (*Euthynnus affinis*) – Appendix IX
- longtail tuna (*Thunnus tonggol*) – Appendix X
- Indo-Pacific king mackerel (*Scomberomorus guttatus*) – Appendix XI
- narrow-barred Spanish mackerel (*Scomberomorus commerson*) – Appendix XII



**Figure 15.** Combined Kobe plot for kawakawa (white), longtail tuna (blue), and narrow-barred Spanish mackerel (brown), showing the estimates of stock size (B) and current fishing mortality (F) in 2013 in relation to optimal spawning stock size and optimal fishing mortality using the OCOM and ASPIC approaches. Cross bars illustrate the range of uncertainty from the model runs.

- Frigate tuna (*Auxis thazard*) – Appendix XVIII
- Kawakawa (*Euthynnus affinis*) – Appendix XIX
- Longtail tuna (*Thunnus tonggol*) – Appendix XX
- Indo-Pacific king mackerel (*Scomberomorus guttatus*) – Appendix XXI
- Narrow-barred Spanish mackerel (*Scomberomorus commerson*) – Appendix XXII



**Fig. 6.** Combined Kobe plot for kawakawa (white: 2015), longtail tuna (blue: 2015) and narrow-barred Spanish mackerel (brown: 2015), showing the estimates of current stock size (B) and current fishing mortality (F) in relation to interim target spawning stock size and interim target fishing mortality. Cross bars illustrate the range of uncertainty from the model runs.

table provided at Appendix VII (para 17, S20 draft report).

### **Longtail tuna**

The Commission **NOTED** the advice from the Scientific Committee that indicates that longtail tuna is currently subject to overfishing and that there is a high to very high risk of breaching rules associated with MSY-based reference points by 2015, even if catches are reduced (para.18, S20 draft report).

WPNT05.  
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(para. 263) Based on these stock status summaries (Fig. 15) and ongoing increasing catch and effort, the WPNT strongly **RECOMMENDED** that current catch levels are not increased further by constraining catch and/or effort to no more than 2013 levels.

SC18.10

(para. 33) **NOTING** the current stock status of several neritic tunas and the continued increase in catch and effort, the SC **RECOMMENDED** that a precautionary approach to the management of neritic tunas is taken by the Commission.

WPNT05 Report	WPNT05 REQUESTS	Update/Progress
Para. 17	The WPNT <b>REQUESTED</b> that the IOTC Secretariat continue to annually prepare a paper on the progress of the recommendations arising from the previous WPNT, incorporating the final recommendations adopted by the Scientific Committee and endorsed by the Commission.	Update: <b>Completed</b> for 2016 and <b>Ongoing</b> annually.
Para. 19	The WPNT <b>NOTED</b> the progress WWF-Pakistan has made in developing seabird identification charts for the Indian Ocean which will also need translation on completion and <b>REQUESTED</b> other CPCs support this work.	Update: CPCs/WWF-Pakistan <b>[update pending]</b>
Para. 21	The WPNT <b>REQUESTED</b> CPCs continue to facilitate further translation of species identification cards, notably I.R. Iran and Malaysia which were identified as priority countries for tuna and tuna-like species identification cards by the SC in 2014 (SC17 para. 130). The WPNT <b>NOTED</b> the offer of scientists from I.R. Iran and Malaysia to assist in the process of finding experts with the relevant language skills who are willing to facilitate the translation of IOTC species identification cards.	Update: I.R.Iran – <b>[update pending]</b> Malaysia - <b>[update pending]</b>
Para. 26	The WPNT <b>NOTED</b> the sampling programme in Kenya and the efforts to improve the quality of data reported to IOTC. The WPNT <b>REQUESTED</b> that the IOTC Secretariat provide technical assistance in data collection and processing, using experiences from other areas, and assist in the evaluation and support of the Kenyan sampling program.	Update: IOTC Secretariat <b>[update pending]</b>
Para. 38	The WPNT <b>NOTED</b> the lack of size data collection by CPCs, particularly from Sri Lanka which are available but have not been submitted to IOTC which has received size data only for skipjack and yellowfin over the last five years but nothing from neritic species. <b>NOTING</b> that presentation of size frequency data in Working Party papers does not constitute a formal data submission, the WPNT <b>REQUESTED</b> Sri Lanka submit this size data in the required format and resolution where possible so that it might be used in future stock assessments.	Update: Sri Lanka – <b>[update pending]</b> . Sri Lanka have now submitted data for 2014, however the size frequency data submitted appear to have already been raised to total catches, whereas the raw data or sample size is required. The IOTC Secretariat is currently waiting for confirmation from NARA on this issue. No historical data have been provided by Sri Lanka.
Para. 42	<b>NOTING</b> that some CPCs, India in particular, have collected large data sets on neritic tuna species over long time periods, the WPNT <b>REQUESTED</b> that this data, as well as data from other CPCs, be submitted to the IOTC Secretariat as per the requirements adopted by IOTC Members in Resolution 15/02. This would allow the WPNT to develop additional or more refined stock status indicators for use in undertaking stock assessments on the neritic tuna species under the IOTC mandate.	Update: CPCs India - <b>[update pending]</b>



Para. 62	The WPNT <b>NOTED</b> that information is not currently collected on the total number of FADs or the size of FADs used and <b>REQUESTED</b> that Malaysia begins to collect this data and conduct an impact assessment of FAD on neritic tuna fisheries in Malaysia is required.	Update: CPCs Malaysia - <a href="#">[update pending]</a>
Para. 76	<b><i>Pakistan neritic tuna fisheries</i></b> The WPNT <b>NOTED</b> that while there is not much fishery independent information collected on these fisheries there are supporting studies that have been produced <sup>1</sup> . The WPNT <b>REQUESTED</b> that further research is carried out to investigate these results further. [IOTC–2015–WPNT05–25]	Update: CPCs Pakistan - <a href="#">[update pending]</a>
Para. 81	<b><i>Indonesia: kawakawa population dynamics</i></b> The WPNT <b>REQUESTED</b> that a meta-analysis be conducted on the raw data on age and length to combine all of the local area studies to get a combined picture of parameters related to growth in the Indian Ocean. This could be done with a Hierarchical Bayesian Analysis approach to estimate hyper-priors for $L_{\infty}$ , K and to for the Indian Ocean with variations by region.	Update: <a href="#">[ongoing]</a> – this has been taken forward to the Commission based on recommendation SC18.09 (Para. 29)
Para. 82	The WPNT <b>NOTED</b> that often the only available dataset to work with is that of the individual CPC and that only summarised data are provided. The WPNT <b>REQUESTED</b> that CPCs provide the raw data for a regional analysis <b>NOTING</b> that it is often difficult for CPCs to release these data.	Update: CPCs- <a href="#">[update pending]</a>
Para. 101	The WPNT <b>REQUESTED</b> that further nominal and standardised CPUE data sets are assembled by CPCs which can be used for this assessment approach. Oman, Iran, Indonesia and I.R. Iran (possibly Kenya and Thailand) are notable CPCs which may be able to provide these data.	Update: CPCs- <a href="#">[update pending]</a>
Para. 102	The WPNT <b>NOTED</b> that the SS3 model is useful in terms of providing information on what information is missing and has the most influence on assessment results and <b>REQUESTED</b> CPCs use this advice to obtain improved data on CPUE and length for use in future assessments.	Update: CPCs- <a href="#">[update pending]</a>
Para. 114	The WPNT <b>REQUESTED</b> that further methods for data poor stock assessments are explored, including approaches using different data such as size only methods, and approaches based on different underlying models.	Update: CPCs & IOTC Secretariat: <a href="#">[ongoing]</a> – a consultancy has been drawn up for an integrated assessment to take place for Longtail tuna and exploring other suitable data poor methods will form part of the workload the next IOTC stock assessment scientist.
Para. 115	The WPNT <b>REQUESTED</b> that studies on growth, standardised CPUE series and stock structure are carried out to support the assessments used and to increase the opportunity to use different methods based on different data types that move away from the data poor approaches towards more traditional approaches.	Update: CPCs - <a href="#">[update pending]</a> & IOTC Secretariat [consultancy carried out performing a literature review of growth parameters for Indo-pacific king mackerel, frigate and bullet tuna, available as data papers for the WPNT06)
Para. 122	The WPNT <b>REQUESTED</b> CPCs that have data for CPUE series to develop these and provide them in time for the next scheduled kawakawa stock assessment, due to take place in 2018 according to the work plan outlined in <a href="#">Appendix VI</a> .	Update: CPCs- <a href="#">[update pending]</a>

Para. 125	<p><b>Development of technical advice on the status of kawakawa</b></p> <p>The WPNT <b>ADOPTED</b> the management advice developed for kawakawa (<i>Euthynnus affinis</i>) as provided in the draft resource stock status summary – <a href="#">Appendix IX</a>, and <b>REQUESTED</b> that the IOTC Secretariat update the draft stock status summary for kawakawa with the latest 2014 catch data later in the year, and for the summary to be provided to the SC as part of the draft Executive Summary, for its consideration.</p>	Update: <b>Completed</b> . The IOTC Secretariat updated the draft Executive Summaries for the Consideration of the SC. The SC18 <b>ADOPTED</b> a new Executive Summary for this stock, available for download from the IOTC website: <a href="http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc">http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</a>
Para. 127 & 128	<p><b>Longtail tuna in Thai waters</b></p> <p>The WPNT <b>AGREED</b> that the study (IOTC-2015-WPNT05-13 Rev_1) is valuable for collecting biological and fisheries data and <b>REQUESTED</b> the work is continued, if possible, for multiple years to investigate temporal trends. The WPNT <b>REQUESTED</b> that other CPCs cooperate with Thailand to conduct similar studies in other areas.</p>	Update: Thailand – <b>[update pending]</b>
Para. 142	<p><b>Assessment of longtail tuna using ASPIC methods</b></p> <p>The WPNT <b>NOTED</b> the standardised CPUE series that has not been submitted to the IOTC Secretariat for use in analyses and <b>REQUESTED</b> that these data are submitted to the IOTC Secretariat by Oman.</p>	Update: Oman – <b>[update pending]</b>
Para. 154	<p><b>Development of technical advice on the status of longtail tuna</b></p> <p>The WPNT <b>ADOPTED</b> the ASPIC management advice developed for longtail tuna (<i>Thunnus tonggol</i>) as provided in the draft resource stock status summary – <a href="#">Appendix X</a>, and <b>REQUESTED</b> that the IOTC Secretariat update the draft stock status summary for longtail tuna with the latest 2014 catch data, and for the summary to be provided to the SC as part of the draft Executive Summary, for its consideration.</p>	Update: <b>Completed</b> . The IOTC Secretariat updated the draft Executive Summaries for the Consideration of the SC. The SC18 <b>ADOPTED</b> a new Executive Summary for this stock, available for download from the IOTC website: <a href="http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc">http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</a>
Para. 165	<p><b>Indian Ocean Indo-Pacific king mackerel assessment using catch-based methods</b></p> <p>The WPNT <b>NOTED</b> that India have a standardised CPUE series for <i>S. guttatus</i> and <b>REQUESTED</b> that they provide this data to the working party for use in time for the next assessment.</p>	Update: CPCs – <b>[update pending]</b>
Para 170	<p><b>Selection of Stock Status indicators</b></p> <p>The WPNT <b>REQUESTED</b> more data is made available so that traditional stock assessment approaches may also be attempted for this species.</p>	Update: CPCs – <b>[update pending]</b>
Para. 171	<p><b>Development of technical advice on the status of Indo-Pacific king mackerel</b></p> <p>The WPNT <b>REQUESTED</b> that the IOTC Secretariat update the draft stock status summary for Indo-Pacific king mackerel with the latest 2014 catch</p>	Update: <b>Completed</b> . The IOTC Secretariat updated the draft Executive Summaries for the Consideration of the SC. The SC18 <b>ADOPTED</b> a new Executive Summary for this stock, available for download from the IOTC website: <a href="http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc">http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</a>

	data, and for the summary to be provided to the SC as part of the draft Executive Summary, for its consideration.	<u>species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</u>
Para. 176	<b>Kenya: Narrow-barred Spanish mackerel</b> The WPNT <b>REQUESTED</b> that Kenya investigates spatial and temporal trends spanning a longer time period to evaluate whether the seasonal trends persist.	Update: Kenya – <b>[update pending]</b>
Para. 177	The WPNT <b>NOTED</b> the spatial distribution of catches along the Kenyan coastline which were higher in the south. A similar high concentration has also been reported in the northern part of the neighbouring Tanzania. The WPNT also <b>NOTED</b> that <i>S. commerson</i> is fished all year round in southern Kenyan and northern Tanzania waters, suggesting there are ecological reasons for the residency of some individuals. Therefore the WPNT <b>REQUESTED</b> the CPCs work together to investigate potential factors leading to the localised high concentrations of <i>S. commerson</i> in the area.	Update: CPCs  Kenya – <b>[update pending]</b> Tanzania – <b>[update pending]</b>
Para. 178	The WPNT <b>REQUESTED</b> Kenya further analyse CPUE data, particularly relating to the different gears used by the artisanal fishers to evaluate the impacts of the gears on the species. <b>NOTING</b> that the sampling has been taking place for two years, the WPNT <b>REQUESTED</b> Kenya continue this work to develop a longer time series of data and to present this to the WPNT in the future.	Kenya – <b>[update pending]</b>
Para. 194	<b>Indian Ocean Narrow-barred Spanish mackerel: assessment using OCOM</b> The WPNT <b>REQUESTED</b> the authors [of paper IOTC–2015–WPNT05–26] use ECOSIM to predict future biomass as well as current levels.	Iran – <b>[update pending]</b>
Para. 199	<b>Development of technical advice on the status of narrow-barred Spanish mackerel</b> The WPNT <b>ADOPTED</b> the management advice developed for narrow-barred Spanish mackerel ( <i>Scomberomorus commerson</i> ) as provided in the draft resource stock status summary – <a href="#">Appendix XII</a> and <b>REQUESTED</b> that the IOTC Secretariat update the draft stock status summary for narrow-barred Spanish mackerel with the latest 2014 catch data, and for the summary to be provided to the SC as part of the draft Executive Summary, for its consideration.	Update: <b>Completed.</b> The IOTC Secretariat updated the draft Executive Summaries for the Consideration of the SC. The SC18 <b>ADOPTED</b> a new Executive Summary for this stock, available for download from the IOTC website: <a href="http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc">http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</a>
Para. 203	<b>Review of data available at the Secretariat for other neritic tuna species</b> The WPNT <b>NOTED</b> that the area for sampling falls entirely within the Zanzibar channel and so it is not surprising that this is a single stock and <b>REQUESTED</b> the authors include samples from other areas beyond this region such as Seychelles, Mozambique, Madagascar, Kenya and South Africa. [paper IOTC–2015–WPNT05–16 Rev_1 - Tanzania]	Tanzania – <b>[update pending]</b>

Para. 216	<b><i>Sri Lanka frigate tuna fisheries</i></b> The WPNT <b>REQUESTED</b> that Sri Lanka report data to the IOTC Secretariat disaggregated by individual gear type for size frequency, catch and effort and nominal catch and by IOTC standard for all neritic tuna species.	Sri Lanka – <b>[update pending]</b> Sri Lanka has now provided disaggregated size frequency and catch and effort data by gear for 2014 for the offshore fisheries, however the reported catches are considered to still not be complete for the coastal fisheries and there are . The catch data published by MFARD on their website for key species such as SKJ and YFT are much higher than those reported by Sri Lanka to the IOTC Secretariat.
Para. 227	<b><i>Stock assessment updates</i></b> The WPNT <b>NOTED</b> the recent symposium held on data poor stock assessment methods where it was decided that if no code is provided then the assessment results should not be considered. The WPNT <b>NOTED</b> that the code for the data poor methods used for IOTC assessments has been made available but that a manual is needed. The WPNT <b>REQUESTED</b> that this is considered for future capacity building workshops.	Update: IOTC Secretariat - <b>[ongoing]</b> - this will be taken into consideration at the next capacity building workshop
Para. 232	The WPNT <b>ADOPTED</b> the management advice developed for bullet tuna and frigate tuna as provided in the draft resource stock status summary for each species and <b>REQUESTED</b> that the IOTC Secretariat update the draft stock status summary for bullet tuna and frigate tuna with the latest 2014 catch data, and for the summary to be provided to the SC as part of the draft Executive Summary, for its consideration: ○ Bullet tuna ( <i>Auxis rochei</i> ) – <b>Appendix VII</b> ○ Frigate tuna ( <i>Auxis thazard</i> ) – <b>Appendix VIII</b>	Update: <b>Completed</b> The IOTC Secretariat updated the draft Executive Summaries for the Consideration of the SC. The SC18 <b>ADOPTED</b> a new Executive Summary for this stock, available for download from the IOTC website: <a href="http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc">http://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc</a>
Para. 237	<b><i>Revision of the WPNT Program of Work (2016–2020)</i></b> The WPNT <b>REQUESTED</b> that once the leading organisation and project coordinator have been selected a circular should be sent to all CPCs to initiate coordination of project activities. [stock structure project]	Update: IOTC Secretariat <b>[ongoing]</b> – once the stock structure project has started and the lead organisation has provided the first quarterly report to the Secretariat, a circular will be arranged.
Para. 241	The WPNT <b>REQUESTED</b> scientists from CPCs develop CPUE series for input into stock assessments in 2017. The WPNT <b>NOTED</b> that CPCs in Thailand, Malaysia, Indonesia, Oman, I.R. Iran, India and Pakistan have datasets on catch and effort and length composition that have not been submitted to the IOTC and <b>REQUESTED</b> that these be provided for use in stock assessment advice.	Update: CPCs Thailand– <b>[update pending]</b> Malaysia– <b>[update pending]</b> Indonesia– <b>[update pending]</b> Oman – <b>[update pending]</b> I.R. Iran – <b>[update pending]</b> India– <b>[update pending]</b> Pakistan – <b>[update pending]</b>
Para. 242	The WPNT <b>NOTED</b> that previous requests of the WPNT for CPCs submit historical data have often yielded not much information and so <b>REQUESTED</b> that the IOTC Secretariat travel to individual CPCs to	Update: IOTC Secretariat <b>[completed]</b> The Data Section of the IOTC Secretariat conducted data compliance missions to Tanzania, Indonesia, Thailand, and Mozambique since WPNT-2015. The missions not only address

	discuss the issues directly and obtain the data.	<p>the status of current compliance with IOTC data-related resolutions, but evaluate the availability of historical datasets that can be to inform future assessments of IOTC species.</p> <p>The submission of historical data, however, following missions by the IOTC Secretariat remains a challenge due to limited resources at the both the Secretariat and CPCs.</p>
Para. 246	The WPNT <b>NOTED</b> the issues with lack of follow-up by CPCs after a mission by the IOTC Secretariat has been undertaken rendering it less effective than it would be if there was more follow-up and <b>REQUESTED</b> that CPCs make the most of these missions by conducting preparation and follow-up activities.	Update: CPCs – <a href="#">[update pending]</a>