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## Update on actions arising from the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011)

PREPARED BY: IPHC SECRETARIAT (21 SEPTEMBER 2018)

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### PURPOSE

To provide the MSAB with an opportunity to consider the progress made during the inter-sessional period in relation to the recommendations and requests of the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011).

### BACKGROUND

At the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011), participants agreed on a series of actions to be taken by the Commission, Subsidiary Bodies, and the IPHC Secretariat on a range of topics as detailed in [Appendix A](#).

### DISCUSSION

Noting that best practice governance requires the prompt delivery of core tasks assigned by the Commission, at each subsequent session of the Commission and its subsidiary bodies, attempts will be made to ensure that any recommendations and requests for action are carefully constructed so that each contains the following elements:

- 1) a specific action to be undertaken (deliverable);
- 2) clear responsibility for the action to be undertaken (i.e., a specific Contracting Party, the IPHC Secretariat, a subsidiary body of the Commission, or the Commission itself);
- 3) a desired time frame for delivery of the action (i.e., by the next session of an subsidiary body, or other date).

This involves numbering and tracking all action items (see [Appendix A](#)) from the MSAB, as well as including clear progress updates and document reference numbers.

### RECOMMENDATION/S

That the MSAB:

- 1) **NOTE** paper IPHC-2018-MSAB012-04, which provided the MSAB with an opportunity to consider the progress made during the inter-sessional period in relation to the recommendations and requests of the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011).
- 2) **AGREE** to consider and revise as necessary, the actions arising from the MSAB011, and for these to be combined with any new actions arising from the MSAB012.

### APPENDICES

[Appendix A](#): Update on actions arising from the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011)

## APPENDIX A

Update on actions arising from the 11<sup>th</sup> Session of the IPHC Management Strategy Advisory Board (MSAB011)

| Action No.   | Description   | Update  |
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| <b>RECOMMENDATIONS</b>   |   |   |
| NOTING that the core purpose of the MSAB011 is to review progress on the MSE Program of Work, and to provide guidance for the delivery of products to the MSAB012 in October 2018, the MSAB AGREED that formal recommendations to the Commission would not be developed at the present meeting, but rather, these would be developed at the MSAB012. |   |   |
| <b>REQUESTS</b>  |   |   |
| MSAB011–<br>Req.01<br><br>( <a href="#">para. 18</a> )   | <b><i>A review of the goals and objectives of the IPHC MSE process</i></b><br><br>The MSAB <b>REQUESTED</b> that the IPHC Secretariat standardize the terminology for types of objectives (e.g. general, higher level objectives vs. measurable objectives).  | <b>Completed:</b> Standardization of terminology was implemented after discussion with the ad-hoc working group to refine goals and objectives.   |
| MSAB011–<br>Req.02<br>( <a href="#">para. 20</a> )   | The MSAB <b>REQUESTED</b> that the objectives as defined in <a href="#">Appendix Va</a> , be refined by an Ad-Hoc Working Group (composition: Peggy Parker; Chris Sporer; Glenn Merrill; Dan Falvey; Michelle Culver). The Ad-Hoc Working Group shall provide refined objectives to the IPHC Secretariat for distribution to the MSAB for consideration by 15 June 2018. Comments from the MSAB members would then be provided to the IPHC Secretariat by 30 June 2018. Some points of interest include determining appropriate reference catch levels, considering the use of “economically sufficient,” and retaining the concepts of a minimum catch, a reference catch, and stability in catch (which may be stated as a rate of change). A further consideration may be to identify an objective related to taking advantage of high yield opportunities. Another consideration may be to look at what minimum catch is necessary to maintain markets. | <b>Completed:</b> The ad-hoc Working Group met at the end of June and refined the goals and objectives after subsequent email exchanges. The timeline was delayed and the refined objectives are distributed to the MSAB members as part of document IPHC-2018-MSAB012-06 for discussion at MSAB012 |

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| MSAB011–<br>Req.03<br>( <a href="#">para. 28</a> ) | The MSAB <b>REQUESTED</b> that the IPHC Secretariat continue to discuss the Biological Sustainability (conservation) objectives with the IPHCs Scientific Review Board (SRB), including the appropriate female spawning biomass limit and female spawning biomass threshold.  | <b>Completed:</b> The SRB agreed with the current proposed biological objectives (paragraph 29 IPHC-2018-SRB012-R).  |
| MSAB011–<br>Req.04<br>( <a href="#">para. 33</a> ) | The MSAB <b>REQUESTED</b> that the objectives related to distributing the TCEY in <a href="#">Appendix Vb</a> be the subject of further discussion by the Ad-Hoc Working Group ( <a href="#">paragraph 20</a> ). The consideration of these objectives should be done after refinement of Scale objectives, as noted in <a href="#">paragraph 20</a> . This task is to be completed no later than 1 September 2018, for consideration by the IPHC Secretariat and subsequent submission to the MSAB012 in accordance with the IPHC Rules of Procedure (2017). | <b>Pending:</b> The refinement of Scale objectives was delayed, thus delaying the consideration of distribution objectives. A discussion of distribution objectives will occur at MSAB012. |
| MSAB011–<br>Req.05<br>( <a href="#">para. 37</a> ) | <b>Performance metrics for evaluation</b><br>The MSAB <b>REQUESTED</b> that the IPHC Secretariat present the performance metrics determined from measurable objectives, as well as additional statistics listed in <a href="#">Appendix Va</a> , at MSAB012.  | <b>Completed:</b> the ad-hoc working group specified performance metrics and statistics of interest. These are presented in IPHC-2018-MSAB012-06.  |
| MSAB011–<br>Req.06<br>( <a href="#">para. 40</a> ) | <b>Short-term, mid-term, and long-term performance metrics</b><br>The MSAB <b>REQUESTED</b> that the IPHC Secretariat determine methods to present qualitative results describing the transition from the short-term to the long-term for various performance metrics as a way to describe medium-term performance.   | <b>Pending:</b> Methods to present medium-term results will be trialed at MSAB012.   |
| MSAB011–<br>Req.07<br>( <a href="#">para. 41</a> ) | The MSAB <b>REQUESTED</b> that the IPHC Secretariat present the methods for producing short-, medium- and long-term results to the SRB for their review and comment.  | <b>Pending:</b> the SRB will further review these methods at SRB013 in Sept. 2018.   |
| MSAB011–<br>Req.08<br>( <a href="#">para. 45</a> ) | <b>A review of variability and scenarios</b><br>The MSAB <b>REQUESTED</b> that the SRB clarify the meaning of paragraphs 24 and 28 in the SRB report, IPHC-2017-SRB011-R.   | <b>Completed:</b> the SRB clarified these paragraphs in paragraph 28 of IPHC-2018-SRB012-R.  |

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| MSAB011–<br>Req.09<br>( <a href="#">para. 48</a> ) | <b>NOTING</b> that domestic management measures for the recreational fisheries often include size limits that differ to various levels of catch limits, the MSAB <b>REQUESTED</b> the IPHC Secretariat to consider alternative methods to simulate bycatch mortality at various Pacific halibut abundances, as noted in IPHC-2017-MSAB010-R, paragraph 21.                                     | <b>Completed:</b> Bycatch mortality is modelled as a function of abundance as explained in IPHC-2018-MSAB012-07.                                     |
| MSAB011–<br>Req.10<br>( <a href="#">para. 49</a> ) | The MSAB <b>REQUESTED</b> the IPHC Secretariat to consider alternative methods to simulate recreational mortality, and that the recreational mortality should continue to increase over the entire range of total mortality.   | <b>Completed:</b> Recreational mortality continues to increase with increasing total mortality as explained in IPHC-2018-MSAB012-07.                 |
| MSAB011–<br>Req.11<br>( <a href="#">para. 52</a> ) | <b>Management Procedures related to fishing intensity</b><br>The MSAB <b>AGREED</b> that a performance metric related to “being on the ramp” of the HCR is not necessary and would be covered by catch variability performance metrics. However, the MSAB <b>REQUESTED</b> a statistic related to “being on the ramp” be reported.   | <b>Completed:</b> This was captured by the ad-hoc Working Group and is explained in document IPHC-2018-MSAB012-06.                                   |
| MSAB011–<br>Req.12<br>( <a href="#">para. 54</a> ) | <b>Preliminary closed-loop simulations results to investigate SPR with estimation error</b><br>The MSAB <b>AGREED</b> that estimation error should be simulated from a joint distribution representing error in the estimated Total Mortality and the estimated stock status, with autocorrelation. The MSAB <b>REQUESTED</b> that the SRB review these methods to incorporate estimate error. | <b>Completed:</b> The SRB reviewed this (paragraph 32 c,d,e of IPHC-2018-SRB012-R) and updates have been made, as described in IPHC-2018-MSAB012-07. |

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| <p>MSAB011–<br/>Req.13<br/>(<a href="#">para. 60</a>)</p> | <p><b><i>Simulation design for evaluations at MSAB012 of the Scale component of the harvest strategy policy</i></b></p> <p>The MSAB <b>REQUESTED</b> that the simulations incorporate:</p> <ol style="list-style-type: none"> <li>a) SPR values from 30% to 56%, with higher resolution where change occurs in the performance metrics, and at values where IPHC feels the results are meeting the MSE objectives.</li> <li>b) fishery trigger values of 30% and 40%, and that 45% is also used if time allows.</li> <li>c) estimation error by jointly simulating the error in total mortality and stock status with coefficients of variation (CV) the same for each variable and equal to 0.15 with a correlation of 0.5. An CV of 0.0 (no estimation error) and 0.2 may be considered if time permits, and presented as a sensitivity as a minimum to understand the effects of the different levels of estimation error.</li> <li>d) autocorrelation at a level determined appropriate by the IPHC Secretariat and the SRB.</li> <li>e) a smoothing algorithm on the catch limit for a few simulations as an example to understand the effect on the performance metrics. The algorithm should be asymmetric (e.g. slow up/fast down) and reduce annual catch variability.</li> </ol> | <p><b>Pending:</b> Results presented at MSAB012 will address as many of these requests as possible.</p> |
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| <p>MSAB011–<br/>Req.14<br/>(<a href="#">para. 61</a>)</p> | <p>The MSAB <b>REQUESTED</b> that when reporting results:</p> <ul style="list-style-type: none"> <li>a) the long-term be represented by 100 simulated annual cycles from the Operating Model and performance metrics summarized over the 10 annual cycles.</li> <li>b) short- and medium-term performance metrics be presented for management procedures that meet long-term objectives.</li> <li>c) the short-term be represented by the assessment ensemble and performance metrics presented for the immediate three years. These performance metrics are not necessarily the same as for long-term metrics, and may be actual values (e.g. catch in 2019) instead of a summary over years.</li> <li>d) the medium-term be summarized qualitatively by describing the transition from the short-term to the medium-term using the closed-loop simulations. Sensitivities (e.g. holding weight-at-age at low levels or constant) can help to inform the medium-term transitions.</li> <li>e) phase-in procedures are considered when appropriate.</li> </ul> | <p><b>Pending:</b> Results will be presented at MSAB012 based on this request and any further recommendations from SRB013.</p>   |
| <p>MSAB011–<br/>Req.15<br/>(<a href="#">para. 62</a>)</p> | <p>The MSAB <b>REQUESTED</b> that IPHC Secretariat discuss the time-frames detailed in <a href="#">paragraph 61</a>, with the SRB.</p>   | <p><b>Pending:</b> Outcomes of SRB013 related to this request will be presented at MSAB012.</p>  |
| <p>MSAB011–<br/>Req.16<br/>(<a href="#">para. 63</a>)</p> | <p>The MSAB <b>REQUESTED</b> that the IPHC Secretariat consider the following improvements to the simulation framework:</p> <ul style="list-style-type: none"> <li>a) investigate improvements to simulating weight-at-age with input from the SRB.</li> <li>b) simulating bycatch be improved by linking it to abundance in some way.</li> <li>c) investigate methods to improve time-varying selectivity in the commercial fleet, possibly linking it to abundance.</li> </ul>   | <p><b>Completed:</b> It was determined that improvements to weight-at-age are not necessary at this time. The simulation of bycatch mortality has been improved and time-varying selectivity in the commercial fleet has been introduced (see IPHC-2018-MSAB012-07).</p> |

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| MSAB011–<br>Req.17<br>( <a href="#">para. 64</a> ) | The MSAB <b>NOTED</b> that the Operating Model and how it is conditioned is adequate for the evaluation of the HCR, and <b>REQUESTED</b> that the IPHC Secretariat present these methods to the SRB.   | <b>Pending:</b> The SRB has reviewed the conditioning of the OM and will make final recommendations at SRB013. |
| MSAB011–<br>Req.18<br>( <a href="#">para. 65</a> ) | The MSAB <b>REQUESTED</b> the following sensitivities:<br><ul style="list-style-type: none"> <li>a) Low and high states of weight-at-age.</li> <li>b) Low and high regimes determining mean recruitment.</li> <li>c) Implementation variability (variability associated with not exactly catching the quota or with departures during decision-making).</li> <li>d) Higher and lower levels of mean bycatch.</li> <li>e) Shift in bycatch selectivity to younger ages to address ongoing concerns on U26 mortality.</li> </ul> | <b>Pending:</b> As many of these sensitivities as possible will be presented at MSAB012.                       |
| MSAB011–<br>Req.19<br>( <a href="#">para. 72</a> ) | <b><i>Review framework to investigate distributing the TCEY among IPHC Regulatory Areas and evaluate against objectives</i></b><br><br>The MSAB <b>REQUESTED</b> that the proposed TCEY distribution framework described in <a href="#">paragraphs 69, 70</a> and <a href="#">71</a> , be reviewed by the SRB in 2018.   | <b>Pending:</b> The SRB will review this topic at SRB013 in Sept. 2018.  |
| MSAB011–<br>Req.20<br>( <a href="#">para. 76</a> ) | <b><i>Identify preliminary MPs related to distribution</i></b><br><br><b>NOTING</b> that these tools require further discussion, the MSAB <b>REQUESTED</b> that the IPHC Secretariat provide comments, and that further stakeholder feedback is elicited.  | <b>Ongoing:</b> The tools mentioned here will be discussed at MSAB012 and subsequent MSAB meetings in 2019.    |