



UPDATE ON THE ACTIONS ARISING FROM THE 13TH SESSION OF THE IPHC SCIENTIFIC REVIEW BOARD (SRB013)

PREPARED BY: IPHC SECRETARIAT (21 MAY, 16 JUNE 2019)

PURPOSE

To provide the Scientific Advisory Board (SRB) with an opportunity to consider the progress made during the intersessional period, on the recommendations/requests arising from the SRB013.

BACKGROUND

At the SRB013, the members recommended/requested a series of actions to be taken by the IPHC Secretariat staff, as detailed in the SRB013 meeting report ([IPHC-2018-SRB013-R](#)) available from the IPHC website, and as provided in [Appendix A](#).

DISCUSSION

During the 14th Session of the SRB (SRB014), efforts will be made to ensure that any recommendations/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 (such as the IPHC Staff or SRB officers);
- 3) a desired time frame for delivery of the action (such as by the next session of the SRB or by some other specified date).

RECOMMENDATION/S

That the SRB:

- 1) **NOTE** paper IPHC-2019-SRB014-03, which provided the SRB with an opportunity to consider the progress made during the inter-sessional period, in relation to the consolidated list of recommendations/requests arising from the previous SRB meeting (SRB013).
- 2) **AGREE** to consider and revise the actions as necessary, and to combine them with any new actions arising from SRB014.

APPENDICES

[Appendix A: Update on actions arising from the 13th Session of the IPHC Scientific Review Board \(SRB013\)](#)

APPENDIX A
Update on actions arising from the 13th Session of the IPHC Scientific Review Board (SRB013)

RECOMMENDATIONS

Action No.	Description	Update
SRB013– Rec.01 (para. 21)	<p><i>Pacific halibut stock assessment: 2018 - Modelling updates</i></p> <p>NOTING that the Commission has asked the IPHC Secretariat to develop a paper for consideration at the 94th Session of the IPHC Interim Meeting, that outlines both the current IPHC peer review process and areas for potential improvement, the SRB RECOMMENDED the following:</p> <ul style="list-style-type: none"> a) Pacific halibut stock assessment and peer review cycle, noting that the intention is for the SRB to undertake annual peer review of stock assessment updates, and a peer review of the full stock assessment, independent of the SRB, occurs once every three years, that would then feed into the SRB process (Table 1). b) One option for the IPHC to consider would be for external reviewer(s) conduct a desktop review prior to SRB014 and send the review directly to the Commission. This would supplement the review from the SRB. 	<p>Completed.</p> <p>The Commission endorsed the stock assessment peer review cycle as detailed in Table 1 of the SRB013 report (IPHC-2018-SRB013-R)</p> <p>The Commission approved an external peer review of the IPHC Stock Assessment for 2019. The consultant hired will undertake a review throughout June-Aug. The SRB will be briefed on progress during SRB014.</p>
SRB013– Rec.02 (para. 30)	<p><i>MSE Simulation results</i></p> <p>The SRB RECOMMENDED a clear separation between the current stock assessment process and MSE process, so that it is understood:</p> <ul style="list-style-type: none"> a) these two processes, including statistics and performance metrics, are distinct and not comparable; b) the purpose of the current ensemble stock assessment approach is to develop a decision table to assist the Commission in setting an annual TCEY. This TCEY setting process lacks specificity and how decisions are made is unclear. Furthermore, repeated application of this process is difficult to evaluate relative to Commission objectives; 	<p>Completed. MSE results are provided for short-term, medium-term, and long-term timeframes, and presented separately from the stock assessment decision table. The MSAB and Commission have received explanations of the purpose of MSE and stock assessment, and that MSE is evaluating the consistent application of various management procedures.</p>



Action No.	Description	Update
	c) the purpose of the MSE is to compare alternative management procedures against Commission objectives over a wide range of plausible uncertainties within the operating model and management procedures. Therefore, these procedures by definition must be specific and repeatable.	

REQUESTS

Action No.	Description	Update
SRB013– Req.01 (para. 26)	<i>Management Strategy Evaluation: update</i> The SRB REQUESTED that the MSAB consider listing prioritized objectives used to guide the selection of a management procedure. These could include any combination of short, medium, and long-term objectives, provided Commission objectives be given highest priority. All performance metrics in the MSE must be computed from the operating model. See paragraph 30 for further clarification.	Completed. The Commission and MSAB have provided three prioritized objectives to evaluate coastwide MSE results. See paper <i>IPHC-2019-SRB014-08</i>
SRB013– Req.02 (para. 29)	<i>Updates to MSE framework and closed-loop simulations</i> The SRB REQUESTED that in future iterations of the MSE, the IPHC Secretariat and MSAB consider: a) the use of estimation error in the proxy assessment method with coefficients of variation equal to 0.15, a correlation of 0.5, and autocorrelation equal to 0.2 represents one plausible scenario. A larger error and autocorrelation could be considered in robustness tests or as alternative scenarios; b) a management procedure include a constraint on the TMq change to be consistent with the maximum change that has happened historically; c) the current conditioned operating model be used to simulate a coast-wide survey index and	Completed. The MSE simulations include estimation error and constrained management procedures have been evaluated by the Commission and MSAB. A survey-based management procedure has not been simulated using the current MSE operating model, but will be investigated in the current phase of the MSE analysis. See paper <i>IPHC-2019-SRB014-08</i>



Action No.	Description	Update
	that such data be used to consider an alternative survey-based management procedure (this may provide a more transparent TMq-setting algorithm than the current SPR based control-rule and help with MSAB deliberations).	
SRB013– Req.03 (para. 41)	Biological research updates The SRB REQUESTED that specific research topics, analysis and results be addressed in depth at subsequent SRB meetings, and that at SRB014, a presentation focused on population genetics and migration as they relate to the stock assessment and MSE work be provided. For example, how does this work identify alternative hypotheses for movement and population structure that can be considered in the MSE process and the stock assessment.	Completed. The IPHC Secretariat will present (as a ppt) detailed information on selected research topics with emphasis on future studies on population genetics and migration that respond to specific management needs at SRB014. See also paper: IPHC-2019-SRB014-09