

IPHC-2023-MSAB018-R

Report of the 18th Session of the IPHC Management Strategy Advisory Board (MSAB018)

Meeting held electronically, 24-25 May 2023

Commissioners

Canada Paul Ryall Neil Davis Peter DeGreef United States of America Jon Kurland Robert Alverson Richard Yamada

Executive Director David T. Wilson, Ph.D.

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Contact details:

International Pacific Halibut Commission 2320 W. Commodore Way, Suite 300 Seattle, WA, 98199-1287, U.S.A. Phone: +1 206 634 1838 Fax: +1 206 632 2983 Email: <u>secretariat@iphc.int</u> Website: <u>https://www.iphc.int/</u>



IPHC-2023-MSAB018-R

ACRONYMS

AK AM	Alaska Annual Meeting
ADFG CDN	Alaska Department of Fish & Game Canada/Canadian
0210	
DFO	Fisheries and Oceans Canada
EOI	Expressions of Interest
FISS	Fishery-Independent Setline Survey
HSP	Harvest Strategy Policy
IPHC	International Pacific Halibut Commission
М	Mortality (natural)
MP	Management Procedure
MSAB	Management Strategy Advisory Board
MSE	Management Strategy Evaluation
O32	Over 32" (fish length)
OM	Operating Model
PDO	Pacific Decadal Oscillation
SRB	Scientific Review Board
SPR	Spawning Potential Ratio
TCEY	Total Constant Exploitation Yield
U32	Under 32" (fish length)
USA	United States of America
WPUE	Weight-Per-Unit-Effort

DEFINITIONS

A set of working definitions are provided in the IPHC Glossary of Terms and abbreviations: <u>https://www.iphc.int/the-commission/glossary-of-terms-and-abbreviations</u>

HOW TO INTERPRET TERMINOLOGY CONTAINED IN THIS REPORT

This report has been written using the following terms and associated definitions so as to remove ambiguity surrounding how particular paragraphs should be interpreted.

- *Level 1:* **RECOMMENDED; RECOMMENDATION; ADOPTED** (formal); **REQUESTED; ENDORSED; ACCEPTED** (informal): A conclusion for an action to be undertaken, by a Contracting Party, a subsidiary (advisory) body of the Commission and/or the IPHC Secretariat.
- *Level 2:* AGREED: Any point of discussion from a meeting which the Commission considers to be an agreed course of action covered by its mandate, which has not already been dealt with under Level 1 above; a general point of agreement among delegations/participants of a meeting which does not need to be elevated in the Commission's reporting structure.
- *Level 3:* NOTED/NOTING; CONSIDERED; URGED; ACKNOWLEDGED: General terms to be used for consistency. Any point of discussion from a meeting which the Commission considers to be important enough to record in a meeting report for future reference. Any other term may be used to highlight to the reader of an IPHC report, the importance of the relevant paragraph. Other terms may be used but will be considered for explanatory/informational purposes only and shall have no higher rating within the reporting terminology hierarchy than Level 3.



EXECUTIVE SUMMARY

The 18th Session of the International Pacific Halibut Commission (IPHC) Management Strategy Advisory Board (MSAB018) was held in an electronic format (remote participation), from 24-25 May 2023. The MSAB currently consists of 20 board members/positions (9 others currently held vacant), 17 of which attended the Session from the two (2) Contracting Parties. A total of 6 individuals attended the Session as Observers. The list of participants is provided at <u>Appendix I</u>. The meeting was opened by the Co-Chairpersons Mr Adam Keizer (Canada) and Dr Pete Hulson (U.S.A.), who welcomed participants.

The following are a subset of the complete recommendations/requests for action from the MSAB018, which are provided in full at <u>Appendix V</u>.

RECOMMENDATIONS

Nil

REQUESTS

MSAB Membership

MSAB018-Req.1 (para. 10) NOTING the extensive discussion surrounding MSAB member succession planning and how the appointment of alternates may be useful, the MSAB **REQUESTED** that domestic agency staff from the Contracting Parties consider drafting text to amend the IPHC Rules of Procedure to allow alternates to be designated for MSAB members, for Commission consideration in the future.

Updates to evaluations of the current interim harvest policy

MSAB018-Req.2 (para. 21) The MSAB **REQUESTED** that outreach materials be developed that synthesize the effect of the PDO (e.g. via recruitment) on the coastwide and regional stock dynamics and the relative effect of fishing. This may be a pamphlet or poster to be reviewed at a future MSAB meeting.

Potential management procedures to simulate and evaluate

- MSAB018-Req.3 (para. 29) The MSAB **REQUESTED** that subsequent to an agreement on a distribution procedure by the Commission, the evaluation of annual and multi-year assessments include, but not limited to, the following concepts.
 - a) Annual changes in the TCEY driven by FISS observations in non-assessment years of a multi-year MP;
 - b) A constraint on the coastwide TCEY to reduce inter-annual variability and the potential for large changes in assessment years of a multi-year. This may be a 10% or 15% constraint, a slow-up fast-down approach, or similar approach;
 - c) A smoothing element in the distribution procedure to account for uncertainty in the estimates of stock distribution and reduce the variability in area-specific TCEYs. For example, this may include a 3-year rolling average of stock distribution estimates;
 - d) SPR values ranging from 30% to 56% and alternate trigger reference points in the harvest control rule.
- MSAB018-Req.4 (para. 33) The MSAB **REQUESTED** a retrospective analysis of an empirical rule that adjusts the coastwide TCEY proportionally to the change in the coastwide FISS O32 WPUE to compare the coastwide TCEY determined from the assessment to the TCEY determined empirically.



Primary MSE objectives and associated performance metrics

- MSAB018-Req.5 (para. 35) NOTING that objective a) from paragraph 34 above is a risk metric that must be met, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail.
- MSAB018-Req.6 (para. 37) NOTING that objective b) from paragraph 34 above is a priority objective that must be met in a single direction (e.g. may be higher than B36%), and the performance metric is a measure of the range and variability in the relative spawning biomass, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail, along with the actual numerical value.
- MSAB018-Req.7 (para. 38) The MSAB **REQUESTED** new performance metrics representing the change in the TCEY in non-assessment years and the change in TCEY in assessment years be developed for the evaluation of multi-year assessment MPs.

Other Business

- MSAB018-Req.8 (para. 46) **NOTING** that some participants thought that a November MSAB informational session (ref. <u>IPHC Rules of Procedure (2023)</u>, Rule 6, para. 15) may be useful if the Secretariat thought that there were important updates that the MSAB may need to be updated upon prior to the IPHC Interim Meeting, the MSAB **REQUESTED** that such a meeting be scheduled in November 2023.
- MSAB018-Req.9 (para. 47) The MSAB **REQUESTED** that MSAB019 be held in May 2024, rather than October 2024, as previously noted by the Commission, and that future MSAB meetings occur prior to the June SRB meeting in that same year.



TABLE OF CONTENTS

REPORT OF THE 18 th Session of the IPHC Management Strategy Advisory Board (MSAB018)	1
EXECUTIVE SUMMARY	4
TABLE OF CONTENTS	6
1. OPENING OF THE SESSION	7
2. Adoption of the agenda and arrangements for the Session	7
3. IPHC PROCESS	8
3.1 MSAB Membership	
3.2 Update on the actions arising from the 17 th Session of the MSAB (MSAB017)	8
3.3 Outcomes of the 99 th Session of the IPHC Annual Meeting (AM099)	8
4. MANAGEMENT STRATEGY EVALUATION UPDATES	9
4.1 Updates to the MSE framework to investigate management procedures for Pacific halibut fisheries.	
4.2 Updates to evaluations of the current interim harvest policy	
5. MANAGEMENT STRATEGY EVALUATION PROGRAM OF WORK (2023-2025)	
5.1 Potential management procedures to simulate and evaluate	10
5.2 Primary MSE objectives and associated performance metrics	
5.3 Additional considerations for the MSE process and harvest strategy policy	
6. OTHER BUSINESS	12
7. REVIEW OF THE DRAFT AND ADOPTION OF THE REPORT OF THE 18 th Session of the IPHC Manag Strategy Advisory Board (MSAB018)	EMENT
APPENDIX I LIST OF PARTICIPANTS FOR THE 18 th Session of the IPHC Management Strategy Adv Board (MSAB018)	
APPENDIX II AGENDA FOR THE 18 th Session of the IPHC Management Strategy Advisory Boari (MSAB018)	
APPENDIX III LIST OF DOCUMENTS FOR THE 18 th Session of the Management Strategy Advisory (MSAB018)	
APPENDIX IV MSAB MEMBERSHIP	16
APPENDIX V CONSOLIDATED SET OF RECOMMENDATIONS AND REQUESTS OF THE 18 th Session of the I Management Strategy Advisory Board (MSAB018)	



1. OPENING OF THE SESSION

- 1. The 18th Session of the International Pacific Halibut Commission (IPHC) Management Strategy Advisory Board (MSAB018) was held in an electronic format (remote participation), from 24-25 May 2023. The MSAB currently consists of 20 board members/positions (9 others currently being held vacant), 17 of which attended the Session from the two (2) Contracting Parties. A total of 6 individuals attended the Session as Observers. The list of participants is provided at <u>Appendix I</u>. The meeting was opened by the Co-Chairpersons Mr Adam Keizer (Canada) and Dr Pete Hulson (U.S.A.), who welcomed participants.
- 2. The MSAB **NOTED** that no apologies were received by the IPHC Secretariat from the three (3) absent board members (<u>Appendix I</u>).
- 3. The MSAB **RECALLED** that the primary role of the MSAB is to advise the Commission on the Management Strategy Evaluation (MSE) process. To meet this advisory role, the Commission has articulated the following specific representation and objectives for the MSAB, as described in Appendix V, paras 1 and 2 of the <u>IPHC Rules of Procedure (2023)</u>:
 - (para. 1) The Management Strategy Advisory Board (MSAB), on which individuals representing harvesters (commercial, sport, and subsistence), fisheries managers, processors, IPHC Secretariat, science advisors and other experts as required may be represented. The primary roles of the MSAB are to:
 - *a)* Suggest topics to be considered in the Management Strategy Evaluation (MSE) process, within the scope defined in paragraph 2.
 - *b) Provide the IPHC Secretariat with direct input and advice on current and planned MSE activities.*
 - c) Represent constituent views in the MSE process.

(para. 2) The MSAB will:

- a) recommend clear measurable objectives and performance metrics for the fisheries;
- *b)* propose candidate management strategies, which include aspects of the fisheries that can be managed (e.g. regulatory requirements);
- c) provide suggestions to the IPHC Secretariat about plausible fisheries-related scenarios for investigation, which include aspects of the fisheries that cannot be managed by the IPHC (e.g. removals under the management authority of a domestic management agency or changes in fisheries dynamics due to various factors);
- *d) encourage and allow members to propose tentative or exploratory ideas without prejudice to future discussions;*
- *e)* assist with interpreting results and identifying important trade-offs between management procedures;
- *f)* represent information, views, and outcomes of the MSAB discussions to constituents accurately and appropriately;
- g) gather and clearly articulate the interests and concerns of constituents and incorporate them into the MSAB's discussions.
- 4. **NOTING** <u>paragraph 3</u>, the MSAB **RECALLED** that the Management Strategy Evaluation process is a stakeholder informed, scientifically driven process.

2. Adoption of the agenda and arrangements for the Session

5. The MSAB **ADOPTED** the Agenda as provided at <u>Appendix II</u>. The documents provided to the MSAB018 are listed at <u>Appendix III</u>.



3. IPHC PROCESS

3.1 MSAB Membership

- 6. The MSAB **NOTED** paper <u>IPHC-2023-MSAB018-03</u> that provided the current membership list and term expirations for the MSAB, as well as the governance review currently being undertaken by the Commission. The current full membership list is provided at <u>Appendix IV</u>.
- 7. The MSAB **NOTED** that at the 99th Session of the IPHC Annual Meeting (AM099), the Commission made the following agreements related to MSAB membership.

IPHC-2023-AM099-R, para. 69. The Commission AGREED that the Management Strategy Evaluation process and the Management Strategy Advisory Board continue to support the Commission's management of the stock and fishery by providing the means to define fishery objectives and evaluate the performance of management measures against these objectives. The two Contracting Parties have reviewed MSAB membership with the intention of ensuring that the MSAB represents the diversity of interests and remains at a manageable size.

IPHC-2023-AM099-R, para. 70. The Commission AGREED that term appointments can continue to be renewed without limit at the discretion of the Commissioners.

IPHC-2023-AM099-R, para. 71. The Commission AGREED that current MSAB membership terms which expired on 31 December 2022 should be renewed for up to four (4) years to facilitate staggered term expiry among members.

IPHC-2023-AM099-R, **para. 72**. The Commission **NOTED** that there are vacancies within the current membership, and **AGREED** that there will not be active solicitations to fill these vacancies. The MSAB process remains open to observers, including to people who may be interested in applying for an appointment to the MSAB at a later date.

- 8. The MSAB **DISCUSSED** the role of observers and were advised that as per the <u>IPHC Rules of</u> <u>Procedure (2023)</u>, observers may participate in the deliberations of the MSAB under the guidance of the co-chairpersons, but are not entitled to participate in the taking of decisions.
- 9. **RECALLING** paragraph 72 of the <u>IPHC-2023-AM099-R</u>, shown above, the MSAB **NOTED** that interested stakeholders may still submit expressions of interest (EOI) for MSAB vacant positions on an ongoing basis. The IPHC Secretariat provides EOI's to the Commission on a periodic basis for their consideration.
- 10. **NOTING** the extensive discussion surrounding MSAB member succession planning and how the appointment of alternates may be useful, the MSAB **REQUESTED** that domestic agency staff from the Contracting Parties consider drafting text to amend the IPHC Rules of Procedure to allow alternates to be designated for MSAB members, for Commission consideration in the future.

3.2 Update on the actions arising from the 17th Session of the MSAB (MSAB017)

- 11. The MSAB **NOTED** paper <u>IPHC-2023-MSAB018-04</u> 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 17th Session of the IPHC Management Strategy Advisory Board (MSAB017).
- 12. The MSAB **AGREED** to consider and revise as necessary, the actions arising from MSAB017, and for these to be combined with any new actions arising from MSAB018.

3.3 Outcomes of the 99th Session of the IPHC Annual Meeting (AM099)

13. The MSAB **NOTED** paper <u>IPHC-2023-MSAB018-05</u> which detailed the outcomes of the 99th Session of the IPHC Annual Meeting (AM099), relevant to the mandate of the MSAB.



4. MANAGEMENT STRATEGY EVALUATION UPDATES

14. The MSAB **NOTED** paper <u>IPHC-2023-MSAB018-06</u> that provided simulations performed since MSAB017, priority objectives defined by the Commission, and potential outcomes after updating the operating model.

4.1 Updates to the MSE framework to investigate management procedures for Pacific halibut fisheries

15. The MSAB **NOTED** the updates provided by the IPHC Secretariat on the MSE framework and that the MSE operating model will be updated in 2023 to align with the 2022 stock assessment.

4.2 Updates to evaluations of the current interim harvest policy

- 16. The MSAB **NOTED** that additional simulations beyond those presented at MSAB017 resulted in more precise and slightly different values of the performance metrics, but the comparisons between management procedures remained the same.
- 17. The MSAB **NOTED** that the MSE framework can be used to understand the impacts of various factors on stock dynamics as well as evaluating different management procedures, and that both of these concepts are useful to evaluate the relative impacts of different MPs and the forces driving those differences.
- 18. The MSAB **APPRECIATED** the analysis by the Secretariat investigating the impacts of different Pacific Decadal Oscillation (PDO) regimes on the Pacific halibut stock.
- 19. The MSAB **NOTED** that evaluating different PDO regimes (i.e. always high or always low) with an SPR equal to 43%:
 - a) had little effect on the priority conservation objective, but low PDO resulted in lower TCEYs and high PDO resulted in higher TCEYs;
 - b) affected the long-term distribution of spawning biomass differently in each Biological Region;
 - c) may have a larger effect on the long-term distribution of spawning biomass in each Biological Region than fishing when using the current interim harvest strategy policy.
- 20. The MSAB AGREED that the current MSE operating model incorporates sufficient uncertainty in the estimation of natural mortality (M) and that the results with respect to the reference interim management procedure (SPR=43%) are likely minimally affected by the recent change to the treatment of M in the 2022 stock assessment. The operating model will be updated in 2023 to reflect the recent change in the treatment of M.
- 21. The MSAB **REQUESTED** that outreach materials be developed that synthesize the effect of the PDO (e.g. via recruitment) on the coastwide and regional stock dynamics and the relative effect of fishing. This may be a pamphlet or poster to be reviewed at a future MSAB meeting.

5. MANAGEMENT STRATEGY EVALUATION PROGRAM OF WORK (2023-2025)

- 22. The MSAB **NOTED** paper <u>IPHC-2023-MSAB018-07</u> presenting potential management procedures to evaluate, objectives and performance metrics, a discussion of exceptional circumstances, and additional considerations for future MSE work.
- 23. The MSAB **NOTED** that over the coming months, the Secretariat will be updating the IPHC's Harvest Strategy Policy (<u>IPHC-2019-HSP</u>) to reflect the current decisions of the Commission, and any applicable supporting work completed in the MSE process. The new draft will identify areas requiring further work, and decisions needed by the Commission.



5.1 *Potential management procedures to simulate and evaluate*

24. The MSAB **RECALLED** paragraph 85 from the report of the 99th Session of the IPHC Annual Meeting (AM099):

<u>IPHC-2023-AM099-R</u>, para 85: *The Commission AGREED that there is utility in continuing to explore multi-year stock assessment management procedures, in a manner consistent with the advice from SRB and MSAB.*

- 25. The MSAB **NOTED** that a multi-year assessment MP with an empirical rule in non-assessment years increases the importance of FISS data as it would be directly used in the MP.
- 26. The MSAB **NOTED** that annual changes in the FISS design could result in gaps for some areas that may span three years or longer and subsequently increase uncertainty in the estimated stock distribution.
- 27. The MSAB **RECALLED** paragraph 87 from the report of the 99th Session of the IPHC Annual Meeting (AM099).

<u>IPHC-2023-AM099-R</u>, para 87: The Commission AGREED that following agreement about a distribution procedure, the IPHC Secretariat and MSAB should reassess multi-year stock assessment management procedures, as well as coastwide elements of a management procedure such as the SPR value.

- 28. **NOTING** that results from the MSE are dependent upon the distribution of the TCEY, the MSAB **AGREED** that detailed specifications for the evaluation of multi-year MPs be determined subsequent to an agreement on a distribution procedure.
- 29. The MSAB **REQUESTED** that subsequent to an agreement on a distribution procedure by the Commission, the evaluation of annual and multi-year assessments include, but not limited to, the following concepts.
 - a) Annual changes in the TCEY driven by FISS observations in non-assessment years of a multiyear MP;
 - b) A constraint on the coastwide TCEY to reduce inter-annual variability and the potential for large changes in assessment years of a multi-year. This may be a 10% or 15% constraint, a slow-up fast-down approach, or similar approach;
 - c) A smoothing element in the distribution procedure to account for uncertainty in the estimates of stock distribution and reduce the variability in area-specific TCEYs. For example, this may include a 3-year rolling average of stock distribution estimates;
 - d) SPR values ranging from 30% to 56% and alternate trigger reference points in the harvest control rule.
- 30. For a multi-year MP, the MSAB **NOTED** that concerns about changes in the FISS WPUE would be exacerbated when abundance is low and may result in the desire for stock assessments more often in non-assessment years.
- 31. The MSAB **NOTED** that a constant TCEY across multiple years, especially when abundance is low, may result in challenges to a viable operation for some sectors.
- 32. The MSAB **NOTED** that there are logistical considerations (e.g. data availability, time to fit models) when an assessment is desired in a non-assessment year, especially if a request for an assessment is made between the time the FISS results are available and the Annual Meeting.
- 33. The MSAB **REQUESTED** a retrospective analysis of an empirical rule that adjusts the coastwide TCEY proportionally to the change in the coastwide FISS O32 WPUE to compare the coastwide TCEY determined from the assessment to the TCEY determined empirically.



5.2 Primary MSE objectives and associated performance metrics

34. The MSAB **RECALLED** paragraph 76 of the report of the 99th Session of the IPHC Annual Meeting (AM099).

<u>IPHC-2023-AM099-R</u>, para 76: The Commission RECOMMENDED that for the purpose of a comprehensive and intelligible Harvest Strategy Policy (HSP), four coastwide objectives should be documented within the HSP, in priority order:

- a) Maintain the long-term coastwide female spawning stock biomass above a biomass limit reference point (B20%) at least 95% of the time.
- b) Maintain the long-term coastwide female spawning stock biomass at or above a biomass reference point (B36%) 50% or more of the time.
- c) Optimise average coastwide TCEY.
- d) Limit annual changes in the coastwide TCEY
- 35. NOTING that objective a) from <u>paragraph 34</u> above is a risk metric that must be met, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail.
- 36. The MSAB **NOTED** that objective b) from <u>paragraph 34</u> above was modified to reflect a threshold of B36% with the new language "*at or above a biomass reference point*".
- 37. **NOTING** that objective b) from <u>paragraph 34</u> above is a priority objective that must be met in a single direction (e.g. may be higher than B36%), and the performance metric is a measure of the range and variability in the relative spawning biomass, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail, along with the actual numerical value.
- 38. The MSAB **REQUESTED** new performance metrics representing the change in the TCEY in nonassessment years and the change in TCEY in assessment years be developed for the evaluation of multiyear assessment MPs.
- 39. The MSAB **NOTED** that the decision at the 99th Session of the IPHC Annual Meeting to reduce the TCEY from the reference TCEY from the interim management procedure was justified with many reasons, and that it may be difficult to identify an additional objective for the MSE related to this decision as it is likely situational and dependent on many factors.

5.3 Additional considerations for the MSE process and harvest strategy policy

40. The MSAB **NOTED** paragraph 60 from the report of the 21st Session of the Scientific Review Board (SRB021; <u>IPHC-2022-SRB021-R</u>) and that exceptional circumstances should be defined using observations compared to the distribution generated by the MSE simulations:

<u>IPHC-2022-SRB021-R</u>, para 60. The SRB RECOMMENDED that Exceptional Circumstances be defined to determine whether monitoring information has potentially departed from their expected distributions generated by the MSE. Declaration of Exceptional Circumstances may warrant re-opening and revising the operating models and testing procedures used to justify a particular management procedure.

- 41. **NOTING** that an exceptional circumstance in an MSE context occurs when observations are outside the acceptable range simulated by the MSE, the MSAB **AGREED** that the choice of an acceptable range is important especially if the time between updating the MSE is greater than five years.
- 42. The MSAB **AGREED** that FISS observations (coastwide or by area/region) are useful to define the limits defining an exceptional circumstance and that individual years may be used as well as observed trends over time.
- 43. The MSAB **NOTED** that the defined responses to an exceptional circumstance may include:
 - a) reviewing the MSE framework including the operating model;



- b) examining objectives;
- c) evaluating additional MPs;
- d) completing a stock assessment at the next appropriate time.
- 44. The MSAB **AGREED** that there are other circumstances within the acceptable range simulated by the MSE when one may deviate from an adopted MP because of an unexpected event. For example, a high probability of predicted declines in the spawning biomass under the interim management procedure may have been contributing factors in the decision to depart from the interim management procedure in 2023, even though these declines were within the simulated range of MSE results.
- 45. The MSAB **NOTED** that responses to an unexpected event (as noted in <u>paragraph 44</u>), but not defined as an exceptional circumstance, may have a defined response in the MP and result in a similar response as if an exceptional circumstance occurred. This would be at the discretion of the Commission.

6. OTHER BUSINESS

- 46. **NOTING** that some participants thought that a November MSAB informational session (ref. <u>IPHC</u> <u>Rules of Procedure (2023)</u>, Rule 6, para. 15) may be useful if the Secretariat thought that there were important updates that the MSAB may need to be updated upon prior to the IPHC Interim Meeting, the MSAB **REQUESTED** that such a meeting be scheduled in November 2023.
- 47. The MSAB **REQUESTED** that MSAB019 be held in May 2024, rather than October 2024, as previously noted by the Commission, and that future MSAB meetings occur prior to the June SRB meeting in that same year.
- 7. REVIEW OF THE DRAFT AND ADOPTION OF THE REPORT OF THE 18th Session of the IPHC MANAGEMENT STRATEGY ADVISORY BOARD (MSAB018)
- 48. The report of the 18th Session of the IPHC Management Strategy Advisory Board (<u>IPHC-2023-MSAB018-R</u>) was **ADOPTED** on 25 May 2023, including the consolidated set of recommendations and/or requests arising from MSAB018, provided at <u>Appendix V</u>.

APPENDIX I LIST OF PARTICIPANTS FOR THE 18th Session of the IPHC Management Strategy Advisory Board (MSAB018)

Officers			
Co-Chairperson	Co-Chairperson		
(Canada)	(United States of America)		
Mr Adam Keizer: adam.keizer@dfo-mpo.gc.ca	Dr Pete Hulson: pete.hulson@noaa.gov		

MSAB Members				
Canada	United States of America			
Mr Chuck Ashcroft: <u>chuckashcroft@telus.net</u>	Mr Forrest Braden: forrest@seagoalaska.org			
Mr Robert Hauknes: robert_hauknes@hotmail.com	Ms Karla Bush : <u>karla.bush@alaska.gov</u>			
Ms Ann-Marie Huang:	Ms Angel Drobnica: adrobnica@apicda.com			
Ann-Marie.Huang@dfo-mpo.gc.ca				
Mr Adam Keizer: adam.keizer@dfo-mpo.gc.ca	Mr Dan Falvey: myriadfisheries@gmail.com			
Mr Jim Lane: jim.lane@nuuchahnulth.org	Ms Heather Hall: Heather.Hall@dfw.wa.gov			
Mr Chris Sporer: chris.sporer@phma.ca	Dr Pete Hulson: pete.hulson@noaa.gov			
	Mr Kurt Iverson: <u>kurt.iverson@noaa.gov</u>			
	Mr Tom Marking: <u>tmmarking@gmail.com</u>			
	Mr Scott Mazzone: smazzone@quinault.org			
	Mr Per Odegaard: vanseeodegaard@hotmail.com			
	Ms Sarah Webster: <u>sarah.webster@alaska.gov</u>			
Absentees	Absentees			
Mr Angus Grout: rommel@telus.net	Mr James Johnson:			
Mir Angus Grout. Ionniel(@)telus.net	jj.deepseafishermensunion@gmail.com			
	Ms Peggy Parker: peggyparker616@gmail.com			

Commissioners			
Canada	United States of America		
Nil	Nil		

Observers			
Canada	United States of America		
Ms Gwyn Mason (DFO)	Brian Hoffman (Hoh Tribe)		
Michael Fowler (SFAB)	Brianna Bowman (ADFG)		
	Stephen Payton (APMI)		
	Brian Richie (APU)		

IPHC Secretariat

Participant	Title	Email	
Dr David Wilson	Executive Director	david.wilson@iphc.int	
Dr Allan Hicks	Quantitative Scientist	allan.hicks@iphc.int	
Mr Edward Henry Communications Specialist		edward.henry@iphc.int	
Mr Tom Kong	Fisheries Data Specialist (HQ-GIS)	tom.kong@iphc.int	
Ms Lauri Sadorus	Research Biologist	lauri.sadorus@iphc.int	



APPENDIX II

AGENDA FOR THE 18th Session of the IPHC MANAGEMENT STRATEGY ADVISORY BOARD (MSAB018)

> Date: 24-25 May 2023 Location: Electronic/Online Venue: Adobe Connect Time: 09:00-17:00 (24th), 09:00-15:00 (25th) PDT Co-Chairpersons: Mr. Adam Keizer (DFO) & Dr. Pete Hulson (NOAA)

1. OPENING OF THE SESSION

2. ADOPTION OF THE AGENDA AND ARRANGEMENTS FOR THE SESSION

- IPHC-2023-MSAB018-01: Agenda & Schedule for the 18th Session of the IPHC Management Strategy Advisory Board (MSAB018)
- IPHC-2023-MSAB018-02: List of Documents for the 18th Session of the IPHC Management Strategy Advisory Board (MSAB018)

3. IPHC PROCESS

- 3.1. MSAB Membership (D. Wilson)
 - > IPHC-2023-MSAB018-03: MSAB Membership (D. Wilson)
- 3.2. Update on the actions arising from the 17th Session of the MSAB (MSAB017) (A. Hicks)
 > IPHC-2023-MSAB018-04: Update on the actions arising from the 17th Session of the MSAB (MSAB017) (IPHC Secretariat)
- 3.3. Outcomes of the 99th Session of the IPHC Annual Meeting (AM099) (A. Hicks)
 - IPHC-2023-MSAB018-05: Outcomes of the 99th Session of the IPHC Annual Meeting (AM099) (D. Wilson & A. Hicks)

4. MANAGEMENT STRATEGY EVALUATION UPDATES

- 4.1. Updates to the MSE framework to investigate management procedures for Pacific halibut fisheries (A. Hicks)
- 4.2. Updates to evaluations of the current interim harvest policy (A. Hicks)
 - IPHC-2023-MSAB018-06: Updates to evaluations of the current interim harvest policy (A. Hicks & I. Stewart)

5. MANAGEMENT STRATEGY EVALUATION PROGRAM OF WORK (2023-2025)

- 5.1. Potential management procedures to simulate and evaluate (A. Hicks)
- 5.2. Primary MSE objectives and associated performance metrics (A. Hicks)
- 5.3. Additional considerations for the MSE process and harvest strategy policy (A. Hicks)
 - IPHC-2023-MSAB018-07: Considerations for the Management Strategy Evaluation Program of Work for 2023-2025 (A. Hicks & I. Stewart)

6. **OTHER BUSINESS**

7. REVIEW OF THE DRAFT AND ADOPTION OF THE REPORT OF THE 18TH SESSION OF THE IPHC MANAGEMENT STRATEGY ADVISORY BOARD (MSAB018)



APPENDIX III

LIST OF DOCUMENTS FOR THE 18th Session of the Management Strategy Advisory Board (MSAB018)

Meeting documents	Title	Availability
IPHC-2023-MSAB018-01	Agenda & Schedule for the 18 th Session of the IPHC Management Strategy Advisory Board (MSAB018)	✓ 9 Mar 2023✓ 21 Apr 2023
IPHC-2023-MSAB018-02	List of Documents for the 18 th Session of the IPHC Management Strategy Advisory Board (MSAB018)	✓ 10 Apr 2023 ✓ 21 Apr 2023
IPHC-2023-MSAB018-03	MSAB membership (D. Wilson)	✓ 10 Apr 2023
IPHC-2023-MSAB018-04	Update on actions arising from the 17 th Session of the MSAB (MSAB017) (IPHC Secretariat)	✓ 10 Apr 2023
IPHC-2023-MSAB018-05	Outcomes of the 99 th Session of the IPHC Annual Meeting (AM099) (A. Hicks)	✓ 10 Apr 2023
IPHC-2023-MSAB018-06	Updates to evaluations of the current interim harvest policy (A. Hicks & I. Stewart)	✓ 21 Apr 2023
IPHC-2023-MSAB018-07	Considerations for the Management Strategy Evaluation Program of Work for 2023-2025 (A. Hicks & I. Stewart)	✓ 21 Apr 2023



IPHC-2023-MSAB018-R

APPENDIX IV MSAB MEMBERSHIP (as of 24 May 2023)

Commission appointed members

Membership category	Member	Canada	U.S.A.	Current Term commencement	Current Term expiration
Commercial harvesters (6-8)					
1	Sporer, Chris	CDN Commercial		9-May-17	31-Dec-26
2	Hauknes, Robert	CDN Commercial		9-May-17	31-Dec-24
3	Grout, Angus	CDN Commercial		3-Dec-19	31-Dec-26
4	Held vacant	CDN Commercial			Held vacant
5	Held vacant		USA Commercial		Held vacant
6	Odegaard, Per		USA Commercial	9-May-17	31-Dec-24
7	Falvey, Dan		USA Commercial	9-May-17	31-Dec-26
8	Johnson, James		USA Commercial	17-Apr-19	31-Dec-24
First Nations/ Tribal fisheries (2-4)					
1	Lane, Jim	CDN First Nations		9-May-17	31-Dec-26
2	Held vacant	CDN First Nations			Held vacant
3	Mazzone, Scott		USA Treaty Tribes	9-May-19	31-Dec-24
4	Held vacant		USA Treaty Tribes		Held vacant
Government Agencies (4-8)					
1	Keizer, Adam	DFO		9-May-19	31-Dec-26
2	Huang, Ann-Marie	CDN Science Advisor		10-May-18	31-Dec-24
3	Held vacant	DFO			Held vacant



IPHC-2023-MSAB018-R

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4	Iverson, Kurt		NOAA-Fisheries		31-Dec-26
5	Hulson, Pete		USA Science Advisor	13-Jul-22	31-Dec-24
6	Hall, Heather		PFMC		31-Dec-26
7	Bush, Karla		NPFMC	25-Oct-21	31-Dec-24
8	Webster, Sarah		ADFG	24-Sep-19	31-Dec-26
Processors (2-4)					
1	Parker, Peggy	US/CDN Processing	US/CDN Processing	9-May-19	31-Dec-24
2	Held vacant	CDN Processing			Held vacant
3	Held vacant	CDN Processing			Held vacant
4	Held vacant		USA Processing		Held vacant
5	Drobnica, Angel		USA Processing	17-Apr-19	31-Dec-26
Recreational/ Sport fisheries (2-4)					
1	Ashcroft, Chuck	CDN Sportfishing		17-Apr-19	31-Dec-24
2	Held vacant	CDN Sportfishing			Held vacant
3	Marking, Tom		USA Sportfishing (CA)	9-May-19	31-Dec-26
4	Braden, Forrest		USA sportfishing (AK)	17-Apr-19	31-Dec-24



APPENDIX V

CONSOLIDATED SET OF RECOMMENDATIONS AND REQUESTS OF THE 18th Session of the IPHC MANAGEMENT STRATEGY ADVISORY BOARD (MSAB018)

RECOMMENDATIONS

Nil

REQUESTS

MSAB Membership

MSAB018-Req.1 (para. 10) NOTING the extensive discussion surrounding MSAB member succession planning and how the appointment of alternates may be useful, the MSAB **REQUESTED** that domestic agency staff from the Contracting Parties consider drafting text to amend the IPHC Rules of Procedure to allow alternates to be designated for MSAB members, for Commission consideration in the future.

Updates to evaluations of the current interim harvest policy

MSAB018-Req.2 (para. 21) The MSAB **REQUESTED** that outreach materials be developed that synthesize the effect of the PDO (e.g. via recruitment) on the coastwide and regional stock dynamics and the relative effect of fishing. This may be a pamphlet or poster to be reviewed at a future MSAB meeting.

Potential management procedures to simulate and evaluate

- MSAB018-Req.3 (para. 29) The MSAB **REQUESTED** that subsequent to an agreement on a distribution procedure by the Commission, the evaluation of annual and multi-year assessments include, but not limited to, the following concepts.
 - a) Annual changes in the TCEY driven by FISS observations in non-assessment years of a multi-year MP;
 - b) A constraint on the coastwide TCEY to reduce inter-annual variability and the potential for large changes in assessment years of a multi-year. This may be a 10% or 15% constraint, a slow-up fast-down approach, or similar approach;
 - c) A smoothing element in the distribution procedure to account for uncertainty in the estimates of stock distribution and reduce the variability in area-specific TCEYs. For example, this may include a 3-year rolling average of stock distribution estimates;
 - d) SPR values ranging from 30% to 56% and alternate trigger reference points in the harvest control rule.
- MSAB018-Req.4 (para. 33) The MSAB **REQUESTED** a retrospective analysis of an empirical rule that adjusts the coastwide TCEY proportionally to the change in the coastwide FISS O32 WPUE to compare the coastwide TCEY determined from the assessment to the TCEY determined empirically.

Primary MSE objectives and associated performance metrics

- MSAB018-Req.5 (para. 35) **NOTING** that objective a) from paragraph 34 above is a risk metric that must be met, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail.
- MSAB018-Req.6 (para. 37) **NOTING** that objective b) from paragraph 34 above is a priority objective that must be met in a single direction (e.g. may be higher than B36%), and the



performance metric is a measure of the range and variability in the relative spawning biomass, the MSAB **REQUESTED** that the performance metric for this objective be reported as a pass or fail, along with the actual numerical value.

MSAB018-Req.7 (para. 38) The MSAB **REQUESTED** new performance metrics representing the change in the TCEY in non-assessment years and the change in TCEY in assessment years be developed for the evaluation of multi-year assessment MPs.

Other Business

- MSAB018-Req.8 (para. 46) **NOTING** that some participants thought that a November MSAB informational session (ref. <u>IPHC Rules of Procedure (2023)</u>, Rule 6, para. 15) may be useful if the Secretariat thought that there were important updates that the MSAB may need to be updated upon prior to the IPHC Interim Meeting, the MSAB **REQUESTED** that such a meeting be scheduled in November 2023.
- MSAB018-Req.9 (para. 47) The MSAB **REQUESTED** that MSAB019 be held in May 2024, rather than October 2024, as previously noted by the Commission, and that future MSAB meetings occur prior to the June SRB meeting in that same year.