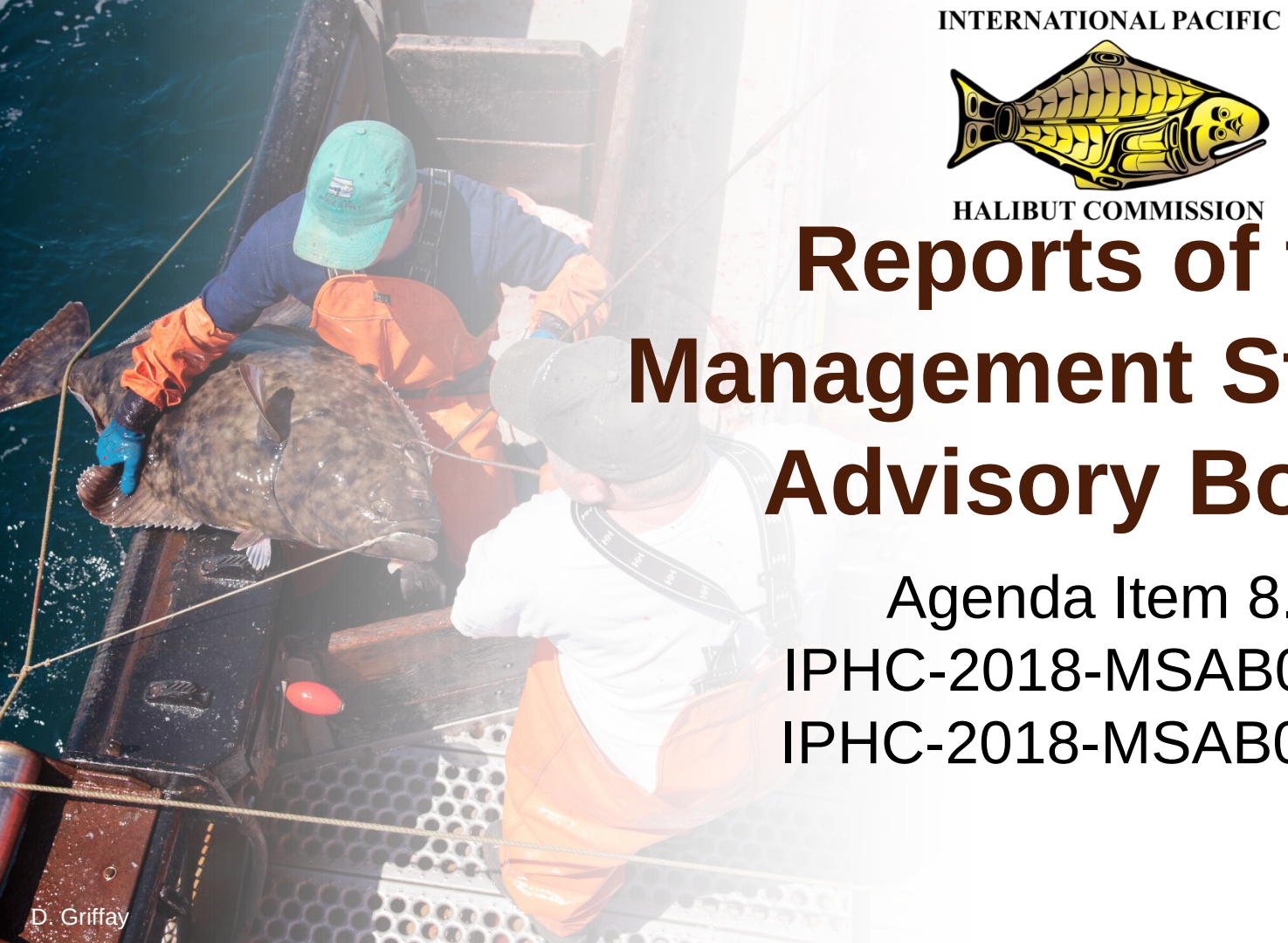

D. Griffay

INTERNATIONAL PACIFIC HALIBUT COMMISSION

Reports of the Management Strategy Advisory Board

Agenda Item 8.2

IPHC-2018-MSAB011-R

IPHC-2018-MSAB012-R

Management Strategy Advisory Board

- 2018 Co-Chairpersons
  - Dr. Carey McGilliard (U.S.A., NOAA Fisheries)
  - Neil Davis, Adam Keizer (Canada, DFO)

- MSAB met twice in 2018
  - MSAB011: 7-10 May
  - MSAB012: 22-25 October

Recommendations and Requests

- Prioritize objectives
- Management Procedure – fishing intensity
- Update simulation framework – scenario uncertainty, performance metrics timeframe, distribution procedures
- Affirmed Program of Work

Commission recommendation to MSAB

"*MSAB focus its efforts on providing a recommendation on the level of the coast-wide fishing intensity for IM094 in November 2018.*

This work on the scale portion of the harvest strategy policy should be prioritized over work on distribution."

Commission recommendation to MSAB

- For the purpose of expediting a recommendation on the level of the coast-wide fishing intensity …
  - prioritize long-term conservation over short-/medium-term (e.g., 3-8 years) catch performance.

- Where helpful in accelerating progress on scale, the MSAB is requested to constrain objectives to
  - (1) maintain biomass above a limit to avoid critical stock sizes,
  - (2) maintain a minimum average catch, and
  - (3) limit catch variability.

Recommendation: objectives

- *The MSAB **NOTED** the refined objectives provided by the ad-hoc working group, and **RECOMMENDED** prioritizing a single conservation objective over fishery measurable objectives.*

MEASURABLE OUTCOME	TIME-FRAME	TOLERANCE
SB < Spawning Biomass Limit (SB_{Lim}) SB_{Lim}=20% spawning biomass	Long-term	0.10
Relative Average Annual Variability in Catch	Short-term	
Average Annual Variability in Catch (AAV) > 15%	Short-term	0.25
Maximize average TCEY coastwide	Short-term	

Recommendation: objectives

- *The MSAB **NOTED** the refined objectives provided by the ad-hoc working group, and **RECOMMENDED** prioritizing a single conservation objective over fishery measurable objectives.*

MEASURABLE OUTCOME	TIME-FRAME	TOLERANCE
SB < Spawning Biomass Limit (SB_{Lim}) SB_{Lim}=20% spawning biomass	91-100 years	0.10
Relative Average Annual Variability in Catch	4-13 years	
Average Annual Variability in Catch (AAV) > 15%	4-13 years	0.25
Maximize average TCEY coastwide	4-13 years	

Recommendation: performance metrics

- *The MSAB **RECOMMENDED** that performance metrics for*
  - *Short term span 4-13 years*
  - *Medium term span 14-23 years*
  - *Long term span 91-100 years*
- *Understand how management procedures rank relative to one another in these time periods*

Recommendation: fishing intensity

- *The MSAB **RECOMMENDED** that a coastwide fishing intensity SPR should:*
  - *not be lower than 40% nor higher than 46%,*
  - *with a target SPR of 42%-43%*
  - *with a 30:20 HCR.*

Recommendation rationale: fishing intensity

- High fishing intensities increase catch variability and increase probability of realizing low biomass levels with little benefit in yield

- Low fishing intensities decrease yield with little benefit to increasing biomass or decreasing catch variability

Update simulation framework

- *The MSAB **REQUESTED** that additional management procedure components be considered to meet the objective of catch stability.*
  - *Multi-year quotas*
  - *Limiting change in catch limits from the previous year:*
    - *+- a particular percentage*
    - *A max increase of 15% per year with no limit on decreasing the catch limit*
    - *Slow up (33% of change in TCEY), fast down (-50% of change in TCEY)*

Distribution procedures

- *The MSAB **REQUESTED** that an additional management procedure be considered to define allocations [*within scenarios for the purpose of the simulation*] and a catch limit floor that reduces catch limits in a stair-step manner during times of large abundance changes.*

- *The MSAB **AGREED** that an ad-hoc working group would be formed to recommend elements of management procedures for the distribution of TCEY. The working group will organize the management procedures listed in paper IPHC-2018-MSAB012-08 with respect to the framework of five steps for distributing TCEY to bioregions and regulatory areas …*

- Ad-hoc working group will meet between AM095 (Jan 2019) and MSAB013 (May 2019) to discuss further

Distribution procedures

- *The MSAB **NOTED** the management procedures that are currently listed for consideration (based on discussion at several MSAB meetings) – see para. 51 of MSAB report*

- *The MSAB **URGED** members to document candidate management procedures and share any such MPs with the ad-hoc working group prior to MSAB13 (May 2019), via the IPHC Secretariat. The 95th Session of the IPHC Annual Meeting will be a key engagement point for this task*

3 year schedule

May 2018 Meeting
Review Goals
Look at results of SPR
Review Performance Metrics
Identify Scale MP's
Review Framework
Identify Preliminary Distribution MP's
October 2018 Meeting
Review Goals
Complete results of SPR
Review Performance Metrics
Identify Scale MP'S
Verify Framework
Identify Distribution MP's
Annual Meeting 2019
Recommendation on Scale
Present possible distribution MP's

May 2019 Meeting
Review Goals
Spatial Model Complexity
Identify MP's (Distn Scale)
Review Framework
October 2019 Meeting
Review Goals
Spatial Model Complexity
Identify MP's (Distn Scale)
Review Framework
Review multi-area model development
Annual Meeting 2020
Update on progress
May 2020 Meeting
Review Goals
Review multi-area model
Review preliminary results
October 2020 Meeting
Review Goals
Review preliminary results
Annual Meeting 2021
Recommendations on Scale and Distribution

3 year schedule

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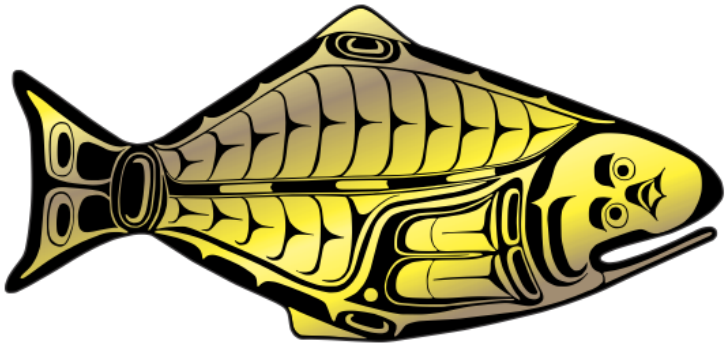
Review multi-area model
Review preliminary results
October 2020 Meeting
Review Goals
Review preliminary results
Annual Meeting 2021
Recommendations on Scale and Distribution

INTERNATIONAL PACIFIC



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