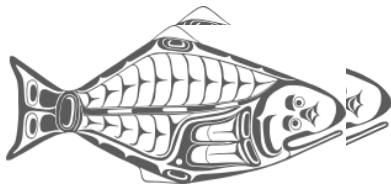


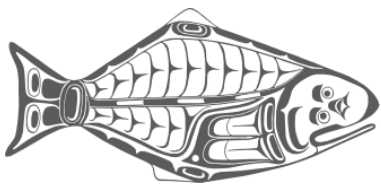
MSAB Meeting

June 13-14, 2013

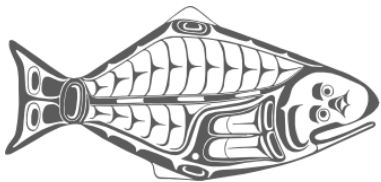
IPHC Office, Seattle WA



WELCOME

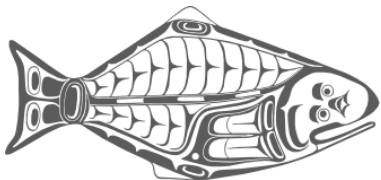


SO WHY ARE WE HERE?



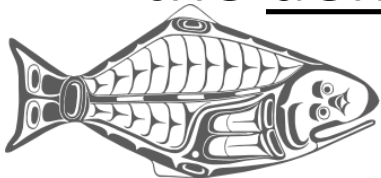
Objectives for **this meeting**

- Define and rank operational objectives for the Pacific halibut fishery.
- Identify the performance metrics for evaluating alternative management procedures.



Objectives for the MSE

- To develop a process (not a product) in which to evaluate alternative management procedures, such as:
 - alternative harvest control rules,
 - alternative apportionment/allocation schemes,
 - changes to stock assessment methods,
 - changes survey/data collection programs,
 - etc., ..., .
- Ensure the process is consistent with achieving the defined operational objectives.

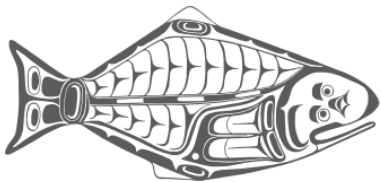


Role of MSAB in this process

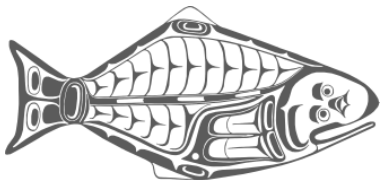
- Define measurable operational objectives.
- Identify a set of performance metrics for evaluating alternative policy.
- Guide and devise alternative management procedures (MPs) for testing.
- Communication:
 - With IPHC Staff (input to the process),
 - With your stakeholders (input & output).
- **HELP SHAPE & GUIDE** changes to MP's



AGENDA

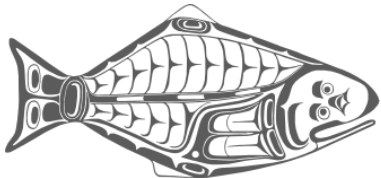


- Rest of today
 - A primer on MSE
 - The CCC policy – an example of an incomplete MSE
 - Canadian Sablefish MSE (Rob Kronlund)
 - Discussion (similarities & differences with halibut)
 - Lunch
 - Input from Industry, First Nations, Sport & Charter
 - Input from Processors
 - Commissioners perspectives
- Tomorrow
 - Procedures and operational role of MSAB in this process.
 - Administration, sharepoint & travel reimbursement.
 - Define & rank operational objectives for the Halibut fishery.
 - Lunch
 - Performance measures for evaluating management procedures.
 - Discussion, feedback & closing remarks.



What happens after this meeting?

- Meeting summary report:
 - Outline objectives & performance measures.
 - Summarize key discussions.
- Operating model development
 - Must capture items on the “worry list”
- Develop candidate management procedures for testing
 - E.g., alternative harvest policies, apportionment
 - MSAB proposals/suggestions/ideas.



A PRIMER ON MSE

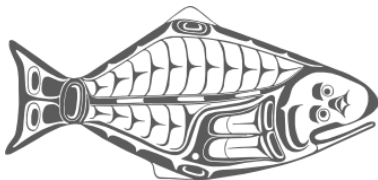


What is MSE?

“Assessing the consequences of a range of management options and presenting the results in a way that lays bare the tradeoffs in performance across a range of management objectives.”

Tony Smith

“Management Strategy Evaluation – the light on the hill”



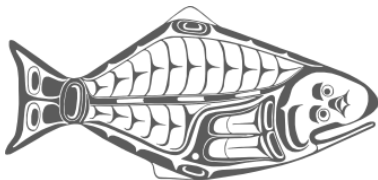
Key Ingredients

“Assessing the consequences of a range of management options and presenting the results in a way that lays bare the tradeoffs in performance across a range of **management objectives**.”

- Clearly defined objectives.

Tony Smith

“Management Strategy Evaluation – the light on the hill”



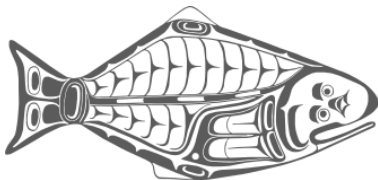
Key Ingredients

“Assessing the consequences of a range of management options and presenting the results in a way that lays bare the tradeoffs in **performance** across a range of management objectives.”

- Measurable performance criteria related to the objectives.

Tony Smith

“Management Strategy Evaluation – the light on the hill”



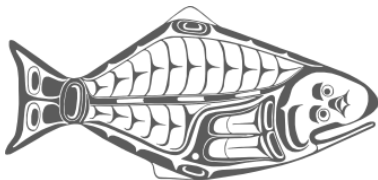
Key Ingredients

“Assessing the consequences of a **range of management options** and presenting the results in a way that lays bare the tradeoffs in performance across a range of management objectives.”

- A set of management strategies.

Tony Smith

“Management Strategy Evaluation – the light on the hill”



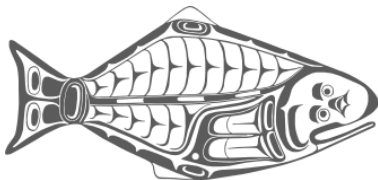
Key Ingredients

“Assessing the consequences of a range of management options and presenting the results in a way that lays bare the tradeoffs in performance across a range of management objectives.”

- A means of calculating the performance criteria for each management strategy.

Tony Smith

“Management Strategy Evaluation – the light on the hill”



Management Procedure	Scenario 1 P(S1)		Scenario 2 P(S2)		Scenario N P(SN)		Expected Value (EV)	
Performance Measure (PM)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short Term	Long Term
Perfect Information							100	107
Status Quo							54	88
MP 1							58	54
MP 2							47	62
MP 3							77	84
MP
MP N							89	99



Management Procedure	Scenario 1 P(S1)		Scenario 2 P(S2)		Scenario N P(SN)		Expected Value (EV)	
Performance Measure (PM)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short Term	Long Term
Perfect Information							100	107
Status Quo							54	88
MP 1							58	54
MP 2							47	62
MP 3							77	84
MP
MP N							89	99

Choices, what combination of:

- Data
- Harvest control rule
- Assessment method
- Apportionment method



Management Procedure	Scenario 1 P(S1)		Scenario 2 P(S2)		Scenario N P(SN)		Expected Value (EV)	
Performance Measure (PM)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short Term	Long Term
Perfect Information							100	107
Status Quo							54	88
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MP
MP N							89	99

Measurable & related to objectives:

- Short term & long term

- Average catch

- This years catch relative to last year

- Depletion

Worry list

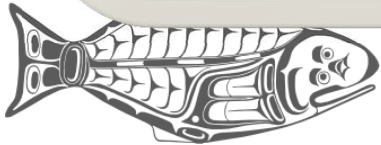


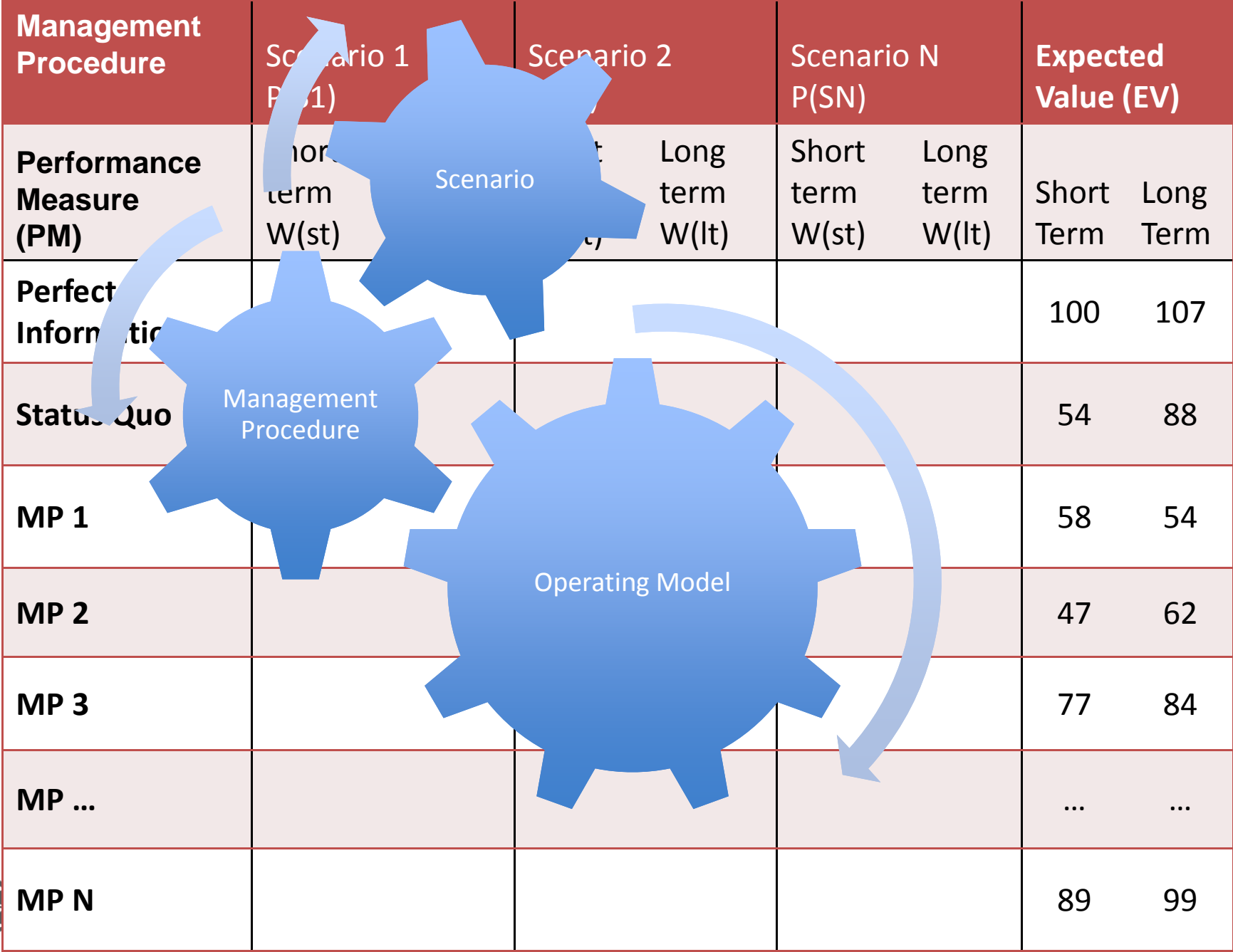
Photo: Paul Logan

Management Procedure	Scenario 1 P(S1)		Scenario 2 P(S2)		Scenario N P(SN)		Expected Value (EV)	
Performance Measure (PM)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short Term	Long Term
Perfect Information							100	107
Status Quo							54	88
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MP
MP N							89	99

Use alternative scenarios to capture range of uncertainty (things beyond our control), e.g.:

- Low vs. high PDO
- Low vs. high natural mortality
- Volcanic eruptions ...





Management Procedure	Scenario 1 P(S1)	Scenario 2 P(S2)	Scenario N P(SN)		Expected Value (EV)	
Performance Measure (PM)	Short term W(st)	Long term W(lt)	Short term W(st)	Long term W(lt)	Short Term	Long Term
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Perfect Information					100	107
Status Quo					54	88
MP 1					58	54
MP 2					47	63
MP 3					75	84
MP
MP N					89	99

Scenario

Management Procedure

Operating Model

Generate Performance Measures in which to evaluate tradeoffs among alternative management procedures

Schematic diagram for evaluating alternative management procedures.

