

NOAA

FISHERIES

Implementing an Assessment Prioritization Process

NOAA Fisheries August, 2015



Overview

- History of Prioritization
- Prioritization Goals
- Overview of Prioritization
- Role for Regional Partners



Prioritization History

- 2011: Initiate development to respond to budget inquiries
- 2013: Prioritization need discussed in proposed Magnuson-Stevens Act reauthorization
- Feb 2014: Draft process presented to Council Coordination Committee (CCC) and available for public comment
- June 2014: Public comments summarized for CCC
- Sept 2014: Government Accountability Office report endorses draft plan
- June 2015: Process revised based on comments and presented to CCC
- August 2015: Prioritization document released

Goal: Support Management of Sustainable Fisheries

- Capacity limits the number and complexity of assessments that can be completed each year
- How complete does a stock's assessment need to be to provide management advice?
- How frequently should assessments be updated?





Which Stocks Need Assessments?





Fast Changing Stocks Need More Frequent Assessments





Importance: Large Range of Commercial Values



FSSI – Fish Stock Sustainability Index. Data are for stocks with Annual Catch Limits

Status: Which Stocks are Pushing Limits?



Relative Stock Abundance



Why Prioritize?

- All managed stocks need some level of assessment
- Some stocks need higher level or more frequent assessments
- Costs may exceed benefits for some low-valued stocks
- Goal is a prioritized portfolio of right-sized assessments for each stock
- Achieved through facilitation and standardization of each regional prioritization process
- Nationally, gaps in capability will be more apparent and can be considered for future investments



Regional Assessment Prioritization



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Prioritization Scoring

	FACTOR	Source	Raw Scores
FISHERY	Commercial Fishery Importance from landed value	SIS_ACL	0 - 5
	Recreational Fishery Importance from regional input	experts	0 - 5
	On rebuilding plan	SIS	0 - 1
	Importance to Subsistence	experts	0 - 5
	Constituent Demand/choke stock	experts	0 - 5
	Non-Catch Value	experts	0 - 5
	Relative Stock Abundance	SIS	1-5
STOCK	Relative Fishing Mortality	SIS	1-5
ECO	Key role in food web	experts	1 - 5
ASMT	Unexpected Changes in Stock Indicators	experts	0 - 5
	Relevant New Data Type or Other Information Becomes Available	experts	0 - 5
	Assessment Years Overdue Relative to Target Frequency	SIS	0, 1 - 10

NOTE: Commercial Fishery Importance score is calculated by starting with the log(ex-vessel value) and then rescaling to have a maximum regional score of 5



How Will It Work?

EXPERTS MANAGERS Stock 2 Stock 1 Stock X Factor 1 Factor 1 weight Factor 2 Factor 2 weight **Stock Scores for each Factor** weight Factor 12 Factor 12 weight **Sorted List** Priority SumIscores + Weights Stock Hi **Stock Mid** Stock Lo



Roles in Prioritization Process



Next Steps for Each Region

- 1. Define stock list for each prioritization group
- 2. Develop ecosystem importance scores; piggyback on climate vulnerability?
- 3. Develop recreational importance scores
- 4. Develop scores for the additional fishery factors
- 5. Obtain access to stock indicator data
- 6. Work with managers to assign factor weights
- Envisioned as needing several workshops/dialogues, with Center and other regional scientists, potentially the Plan Teams
- Bigger effort in first year; lesser annual maintenance

Future Directions

- Management Strategy Evaluations for select stocks can better inform setting of target assessment level and frequency
- Gaps between current and target assessment levels, and the number of overdue assessments informs future investments in capacity
- The simple "factor score x weight" approach evolves to calculate a portfolio of assessments that achieve the greatest overall benefits

