

2017 Forum: Managing Fisheries in a Changing Environment
May 1-2, 2017 • Monterey, CA

Final Agenda

Forum objectives

The purpose of the 2017 Forum is to explore the challenges of managing fisheries in a changing ocean environment. Specifically, participants will:

- Share regional experiences and concerns related to changing fisheries and ocean conditions, and explore the management and governance challenges related to changing resource productivity and distribution;
 - Examine regional approaches to ecosystem-based fisheries management (EBFM), and EBFM as a strategy for supporting ecosystem resilience in the face of change;
 - Learn about emerging capabilities to anticipate potential changes to fish stocks and ecosystems, and consider the opportunities, challenges, and processes involved in planning for change in the near and long term;
 - Explore the range of pathways for integrating climate-related information into the decision-making process and identify opportunities for supporting effective communication between scientists and managers;
 - Reflect on the institutional and operational challenges of making decisions under conditions of uncertainty and change; and
 - Share perspectives on the tools, skills, capabilities, and information councils need in order to manage fisheries effectively in a changing environment, and the role of goals and objectives in framing management decisions.
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Sunday, April 30th

6:30 – 9:00 pm Welcome reception (light dinner)

Taste of Monterey, 700 Cannery Row, Ste. KK.

Walk from The Clement Monterey Hotel (directions provided). This is casual! Late arrivals are encouraged to attend.

Agenda begins on following page

Monday, May 1st
Managing fisheries IN a changing environment

7:30 – 8:30 am **Breakfast (provided)**
Meeting room: Ocean Terrace Ballroom

8:30 – 9:00 am **Opening remarks and introductions**

9:00 – 10:15 am **Regional signals of change**
Objective: Share regional experiences and concerns related to changing fisheries and ocean conditions.

Discussion

- What changes to the ocean environment is your region currently experiencing or anticipating?
- What are the potential management implications for your region's fisheries? What concerns do you have?
- How might variability and change impact your council's ability to meet your management goals and objectives?

10:15 – 10:30 am **Break**

10:30 – 12:00 pm **Fishery impacts Part 1: Changes to resource productivity**
Objective: Explore regional examples of changing resource productivity and strategies for linking harvest with variable abundance, focusing on management implications.

Pacific coast examples:

- California Current context – *Steven Bograd, NOAA Fisheries Southwest Fisheries Science Center*
- Pacific sablefish – *Michele Culver, Pacific Fishery Management Council and Washington Department of Fish & Wildlife*
- Pacific coastal migratory pelagic species – *David Crabbe, Pacific Fishery Management Council*

Discussion

- How do changes in productivity directly impact a fishery? What are potential spillover effects and impacts to other fisheries?
- What are the drivers for responding to changes in productivity (variability and/or directional change)?
- What are the information needs and management pathways for responding to changing productivity? What are the tradeoffs (e.g., stability vs. responsiveness)?

12:00 – 1:00 pm **Lunch**

1:00 – 2:45 pm

Fishery impacts Part 2: Changes to fishery availability

Objective: Explore regional examples of shifting fishery distributions and changes to availability and access, focusing on management implications.

A. Breakout: Access, allocation, and infrastructure challenges

Regional example: Mid-Atlantic summer flounder (Part 1)

Mike Luisi, Mid-Atlantic Fishery Management Council (Chairman) and Maryland Department of Natural Resources

Discussion

- What are the potential direct and indirect consequences (biological, ecological, social, economic) of changing fishery distributions?
- How do different management approaches facilitate or constrain flexibility and adaptation to change (e.g., allocations, landing requirements, catch shares)?

2:45 – 3:00 pm

BREAK

3:00 – 3:30 pm

Breakout session wrap-up

3:30 – 4:45 pm

Fishery impacts Part 2: Changes to fishery availability (continued)

B. Governance and coordination challenges

Regional examples:

- Mid-Atlantic summer flounder (Part 2) – *Mike Luisi*
- Atlantic coast blueline tilefish – *Chip Collier, South Atlantic Fishery Management Council staff and Brandon Muffley, Mid-Atlantic Fishery Management Council staff*
- Pacific Dungeness crab – *Michele Culver*

Discussion

- What jurisdictional challenges and coordination needs may result from a changing environment? What's at stake?
- What are the drivers for initiating a management response? When are short-term solutions appropriate and when is longer-term coordination warranted?
- What challenges can be resolved through a management response? Through governance adaptation?

4:45 – 5:15 pm

Day 1 Wrap-up and looking ahead

6:30 – 9:00 pm

Dinner

Passionfish, 701 Lighthouse Ave, Pacific Grove, CA

Shuttle from The Clement Monterey Hotel will be provided.

Tuesday, April 2nd
Managing fisheries FOR a changing environment

7:30 – 8:30 am **Breakfast (provided)**
Meeting room: Ocean Terrace Ballroom

8:30 – 9:00 am **NOAA Fisheries initiatives**
Objective: Provide a brief overview of agency initiatives to support EBFM implementation and decision-making in a changing environment.

Roger Griffis, Climate Coordinator, NOAA Fisheries

9:00 – 10:15 am **EBFM Part 1: Regional EBFM frameworks**
Objective: Explore EBFM as a strategy for supporting ecosystem resilience and productivity and framing councils' understanding of and response to change.

Regional examples:

- Pacific Fishery Management Council: Pacific Coast Fishery Ecosystem Plan for the U.S. Portion of the California Current Large Marine Ecosystem – *Rich Lincoln, Pacific Fishery Management Council*
- Mid-Atlantic Fishery Management Council: Ecosystem Approach to Fishery Management Guidance Document – *Warren Elliott, Mid-Atlantic Fishery Management Council (Vice Chairman)*
- North Pacific Fishery Management Council: Bering Sea Fishery Ecosystem Plan – *Diana Evans, North Pacific Fishery Management Council staff*

Discussion

- How does your region's EBFM approach help support your council's consideration of changing ocean conditions and impacts to your region's fisheries? How does ecosystem information enter the management process?
- Why did your council choose to adopt a particular approach (guidance document, FEP, etc.)? What made this approach a good fit for your region?

10:15 – 10:30 am **Break**

10:30 – 12:00 pm

EBFM Part 2: Ecosystem status reports and indicators

Objective: Explore the use of ecosystem indicators, ecosystem status reports, and other information products that provide ecosystem-level context for decision-making.

Regional examples

- Alaska Marine Ecosystem Indicators (via webinar) – *Stephani Zador, NOAA Fisheries Alaska Fisheries Science Center*
- California Current Annual State of the Ecosystem Report and Coordinated Ecosystem Indicator Review – *Elliott Hazen, NOAA Fisheries Southwest Fisheries Science Center*
- Mid-Atlantic State of the Ecosystem Report – *Sarah Gaichas, NOAA Fisheries Northeast Fisheries Science Center*

Discussion

- How can ecosystem status reports and indicators support or complement regional EBFM approaches and provide insight into ecosystem change? How can this information be integrated into decision-making?
- How have managers and scientists worked together to develop useful information products?

12:00 – 1:00 pm

Lunch

1:00 – 2:45 pm

Planning Part 1: How do we know what's coming?

Objective: Explore emerging capabilities to anticipate and understand potential changes to fish stocks and ecosystems.

Presentations

- Climate Vulnerability Assessment Methodology and regional assessments – *Roger Griffis and Elliott Hazen*
- Projecting climate velocities and species distributions – *Jim Morley, Rutgers University*
- Alaska Climate Integrated Modeling (ACLIM) – *Kirstin Holsman, NOAA Fisheries Alaska Fisheries Science Center*

2:45 – 3:00 pm

Break

3:00 – 4:30 pm

Planning Part 2: How do we respond?

Objective: Explore the opportunities and challenges involved in looking ahead and preparing for change over the long term.

Discussion

- What are the components of a strategic approach to responding and preparing for change? How do you balance the need for short-term reaction and response with the opportunity to engage in near and long-term planning?
- How do the time frame and the range of possible changes and impacts—and the uncertainty involved—challenge your ability to make decisions as an individual council member? As a full council?
- How can councils build enduring capacity to understand, interpret, and respond to the impacts of a changing ocean environment?

4:30– 5:00 pm

Wrap Up

6:30 – 9:00 pm

Dinner

The Fish Hopper, 700 Cannery Row, Monterey, CA

Walk from The Clement Monterey Hotel (directions provided).