

The Nature Conservancy Climate and Communities Initiative Workshop

May 15-16, 2018 • Portland, OR • Sheraton Portland Airport Hotel



Workshop Goals

This workshop will provide an opportunity for managers, scientists, and stakeholders to provide input into the Pacific Fishery Management Council's development of a climate and communities initiative through the Council's Fishery Ecosystem Plan. Specifically, workshop participants will:

- Increase their understanding of climate related changes, the drivers of change, and the scientific information available;
- Develop shared understanding among the Council, its science and management advisors, industry and the public to discuss and respond to climate-related changes;
- Share perspectives on the region's most pressing issues related to climate variability and change;
- Consider the pathways for addressing these issues, including specific management and non-management actions;
- Identify information needs to support action or further consideration; and
- Provide ideas and information to support the Council's development and implementation of the climate and communities initiative.

Tuesday, May 15, 2018

8:30am–8:45am

Welcome and opening remarks

- Gway Kirchner, The Nature Conservancy
- Kim Gordon, Fisheries Forum

8:45am–10:15am

Group and informal panel discussion: Workshop framing and purpose

Objective: Share perspectives on the drivers and needs that make this workshop and a climate and communities initiative timely and valuable for the region.

Panel perspectives:

- ✓ Caren Braby, Oregon Department of Fish and Wildlife (ODFW), Pacific Fishery Management Council (PFMC)
- ✓ Walter Chuck, recreational angler, ODFW advisor
- ✓ Joshua Etherton, Quileute Tribe
- ✓ Nate Mantua, Southwest Fisheries Science Center (SWFSC)
 - Scott McMullen, Oregon Fishermen's Cable Committee, Ecosystem Advisory Subpanel (EAS)
 - Corey Ridings, Ocean Conservancy, EAS



Discussion questions:

- Why do you think a climate and communities FEP initiative is timely and valuable?
- What climate-related impacts are you experiencing or concerned about?
- From your perspective, how can this workshop contribute and add value to the Council's consideration of a climate and communities initiative?

10:15am–10:30am

Break

10:30am–12:30pm

Management and science foundations

Objective: Frame the management and ecosystem context for workshop discussions and reflect on how these foundations support a climate and communities initiative.

- PFMC Fishery Ecosystem Plan and the climate and communities initiative – Yvonne de-Reynier, West Coast Regional Office (WCRO)
- California Current Integrated Ecosystem Assessment (IEA) and Science Center webinar series – Chris Harvey, Northwest Fisheries Science Center (NWFS)
- NMFS Western Regional Action Plan and Climate Vulnerability Assessment – Michelle

McClure, NWFSC

- Incorporating climate and ecosystem information in stock assessments and management strategy evaluation— Kristin Marshall, NWFSC
- Human dimensions of ecosystem-based fisheries management and climate change — Dan Holland, NWFSC



Discussion questions:

- What do you see as the strengths of the **existing** information and foundations for developing a climate and communities initiative?
- How do you envision climate-related information being integrated into management and decision-making? Do you feel that the entry points for this information are well understood by different participants in the process (managers, scientists, stakeholders)? Why or why not?

12:30pm–1:30pm

Lunch

1:30pm–3:45pm

Breakout group discussions: Impacts to fisheries and communities

Objective: Explore potential direct and indirect impacts of climate change to Council-managed fisheries and communities, including potential management responses, needs, and questions.



Discussion questions:

- How do you anticipate that climate and ecosystem variability and change could impact the Council's managed fisheries, fishery participants, and communities?
- What management tools and strategies are used in each fishery or example? To what extent do you feel they are robust or responsive to change? What attributes make fisheries more or less resilient to change?
- How might climate change increase or change interactions and intersections with other species and fisheries (e.g., state managed fisheries, bycatch, effort shifts, protected species interactions, emerging fisheries)?

3:45pm–4:00pm

Break

4:00pm–5:15pm

Large group discussion: Impacts to fisheries and communities (continued)

Objective: Recap from breakout discussions and dive deeper into themes and how the group's discussions can inform a climate and communities initiative.



Discussion questions:

- How might the Council prepare, react and adapt to the potential impacts you identified? What thresholds might warrant different types of response?
- What steps could be taken to build the capacity to consider intersections across management jurisdictions (e.g., through partnerships, coordination, and information sharing)?
- Fisheries are constantly changing and evolving — is climate change just another factors that fisheries must adapt to accommodate or is it a fundamentally new or different challenge? Does it require new ways of thinking or new processes and tools?

6:00pm

Reception

Heavy hors d'oeuvres

Wednesday, May 16, 2018

8:30am–8:35am

Day 2 introduction

8:35am–10:00am

Community and tribal foundations

Objective: Frame the community and tribal context for workshop discussions and reflect on the importance of considering communities in relation to the impacts of climate change on Council-managed fisheries.

- Fishing Communities 101 – Melissa Poe, Washington Sea Grant and Leila Sievanen, California Ocean Science Trust
- Vulnerability and health for tribal communities – Mike Chang, Makah Tribe
- Social and economic considerations in the IEA – Chris Harvey, NWFSC

10:00am–10:45am

Communities and change: Research highlights

Objective: Provide examples of the disciplines and methods of social science research that can support the Council's consideration of communities relative to climate change.

- Climate impacts in the California Current: Exploring fishermen's vulnerability and adaptive capacity – Arielle Levine, San Diego State University
- Ocean acidification impacts to coastal communities – Melissa Poe, Washington Sea Grant
- The dynamics of adaptation to climate driven variability – Dan Holland, NWFSC

10:45am–11:00am

Break

11:00am–12:15pm

Breakout group discussion: Intersection of climate and communities

Objective: Explore the relationship between climate and communities, and the reasons for considering climate and communities as part of a linked initiative.

Discussion questions:

- What is at stake and for whom given the potential impacts of climate change to the region's fisheries? What is at stake if the Council doesn't consider communities in the context of this climate initiative?
- What do you see as the key questions and concerns related to communities that could be addressed through a climate and communities initiative?
- How can an initiative recognize the unique needs of different communities and complement efforts by other groups and management partners?



12:15pm–1:15pm

Lunch

1:15pm–1:30pm

Communities breakout group recap

1:30pm–3:00pm

Breakout discussion: Focusing the initiative

Objective: Reflect on workshop discussions and discuss the questions, issues and information needs that could be addressed through a climate and communities initiative.

Discussion questions:

- How have workshop discussions shaped and focused your thoughts about the Council's climate and communities initiative?
- What is the Council's role in preparing for, responding to, and adapting to climate change (e.g., creating flexibility, adapting management, providing information)?
- What do you see as steps the Council could take toward the development of a climate and communities initiative? How might you translate the ideas discussed at this workshop and elsewhere into actionable next steps?
- How can the Council encourage and collaborate with other partners (e.g., state and tribal governments, other regional and international bodies) to take steps to prepare for and mitigate impacts from climate change?



3:00pm–3:15pm

Break

3:15pm–4:15pm

Wrap-up discussion: Takeaways and next steps

Objective: Recap from breakout group discussions, consider themes of discussion, and generate ideas for how the Council can continue its thinking on this initiative.

4:15pm–4:30 pm

Closing remarks

- Rich Lincoln, Ocean Outcomes, PFMC
- Dorothy Lowman, Lowman and Associates, PFMC