

Climate Scenarios Workshop Update Crab Plan Team Meeting

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About the Climate Scenarios Workshop – June 5-6, Kodiak AK

- **The purpose of the workshop is to generate ideas for short- and long-term management approaches and tools to improve climate resiliency of federally managed fisheries in the North Pacific.**
- Participants include Council, SSC, AP, Federal, Tribal, and State agency partners, members of the public
- In-person and virtual participation – 150+ registered



Overview

- Origins and context
- Outputs and outcomes
- Scenarios & discussions
- Questions? Ideas?

[Workshop eAgenda](#)



Origins and context – past work

Climate Change Task Force (CCTF)

- Convened to support Bering Sea FEP Climate Action Module
- Report: 2022 Climate Readiness Synthesis - Evaluates climate readiness of the current management system and identifies opportunities for improving climate resilience

2023 SSC Workshop

- Focus: Rapid change in the northern Bering Sea and southern Chukchi Seas - Identifying ecosystem responses and effects on the management of Federal fisheries

More information: [Synthesis of ideas & themes for IRA proposal development](#)



Origins and context – ongoing work

Inflation Reduction Act funding proposal objectives

- Develop a climate-resilient management policy
- Continue work to incorporate local knowledge and traditional knowledge
- Strengthen the consideration of uncertainty and risk in harvest specifications and other aspects of Council management

Programmatic evaluation

- Revisiting Council management policies, goals, and objectives for all Council-managed fisheries and the ability of the current management framework to respond to change



Workshop objectives

- Examine case studies and hypothetical scenarios to explore plausible “what ifs” and identify specific examples of climate readiness needs, barriers, tools, information needs, opportunities, and risks.
 - Explore strengths and weaknesses of status quo management and governance for supporting climate readiness of fisheries under the Council’s jurisdiction.
 - Consider where the pace and deliberative aspect of the Council process is a strength, and where a more rapid response to changing conditions may be appropriate; and clarify the opportunities for and constraints to responsiveness within the Federal regulatory process.
- Develop strategies for ensuring a robust and inclusive process for advancing the Council’s climate readiness planning.



Outputs and outcomes

- *No Council decisions about next steps will be made at the workshop
- *Inclusive of all regions – Bering Sea, Aleutian Islands, Gulf of Alaska
- Specific ideas (objectives, needs, challenges, potential solutions, risks, gaps) for building climate readiness
- Shared vocabulary and context
- Broad concerns and themes of discussion that can inform future work including the Programmatic Evaluation



Key messages about climate scenario planning

- [Introduction to climate scenario planning](#) document
- Planning for climate readiness requires planning for a range of possible futures
- Scenario planning involves exploring multiple plausible future scenarios to identify steps for building readiness in an uncertain and unpredictable future
- Scenarios **are not** meant to be predictive (what *could* happen, not what *will* happen)
- Scenarios **are** based in quantitative climate projections
- The time frame for scenarios is not fixed
- Climate change impacts are increasing in all scenarios



Scenario development

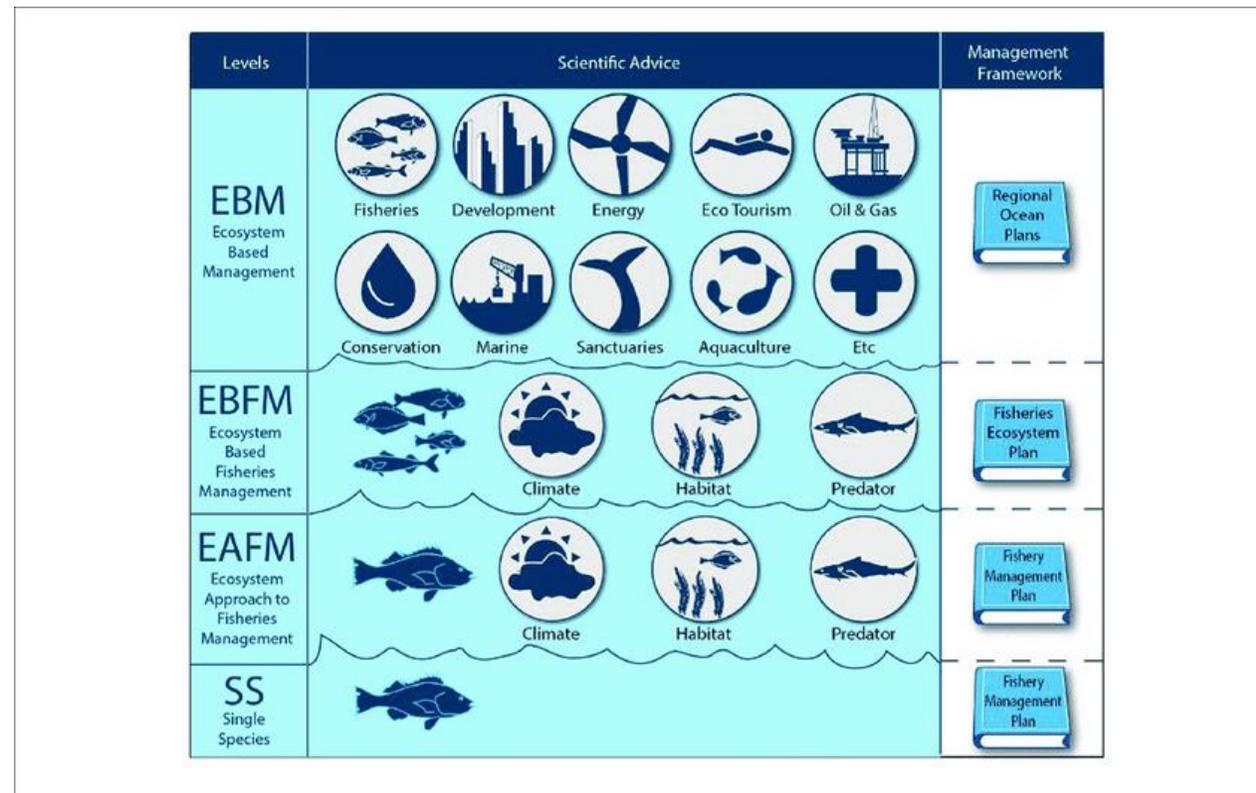
- 4 workshop scenarios + past case studies
- Development process – ACLIM and CCTF, reviewed and refined with input from different roles and disciplines
- Each scenario includes a “scenario snapshot” with key details, and additional details (e.g., frequency of marine heatwaves, sea ice and cold pool trends)

[Scenario descriptions and discussion roadmap](#)



Scenario development

- Framed by 2 key uncertainties: predictability (degree of impacts + predictive capabilities) and level of EBM



Case studies

4 brief case studies to ground scenario discussions in shared experience (thanks CPT members!)

- Gulf of Alaska Pacific cod
- Bering Sea snow crab
- Rapid change in the Northern Bering Sea
- Sablefish recruitment



Scenarios

Scenario 1: Current trajectory

Some progress toward ecosystem-based fisheries management (EBFM), significant climate change impacts, and moderate predictive capabilities



Scenarios

Scenario 2: Best of both worlds

Highly effective and inclusive ecosystem-based management (EBM), lowest potential climate change impacts, and strong predictive capabilities



Scenarios

Scenario 3: EBM and rapid change

Highly effective and inclusive ecosystem-based management (EBM), high climate change impacts, and low predictive capabilities



Scenarios

Scenario 4: Siloed management and high challenges

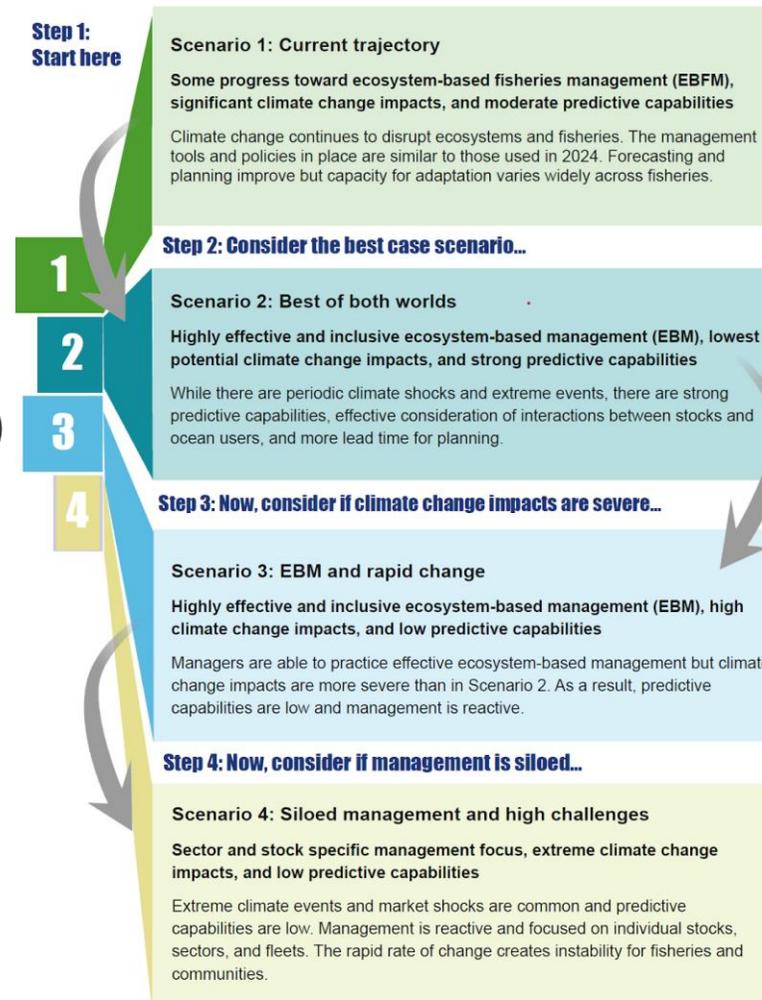
Sector and stock specific management focus, extreme climate change impacts, and low predictive capabilities



Flow of workshop discussions

Discussion roadmap

- 4 breakout sessions
- Concurrent small groups
- In person and virtual (Zoom)



Reflect back : what is the set of tools or processes that work in all scenarios?

Workshop discussion questions

- What does climate resilience look like in each scenario?
- What are the challenges to climate resilience?
- What management tools and approaches could help?
- What scientific tools and information could help?
- What other assets and opportunities could help support climate resilience? (E.g., diverse knowledge sources, collaborative approaches, community and industry-led initiatives).
- How can the Council support a robust and inclusive process for climate readiness planning?



Next steps

- June: Post-workshop preliminary discussion during staff tasking
- September: Workshop report
- October: Council discussion of next steps; consider how ideas from the workshop may fit into new or existing Council initiatives, and consider how and when to take further action



Next steps

Questions? CPT thoughts? Ideas, concerns, how CPT has discussed climate readiness?

If you plan to attend, please [register](#) by Friday 5/17!

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