



# **NORTH PACIFIC FISHERY MANAGEMENT COUNCIL**

## **SSC workshop - Ecosystem response and management effects of rapid change in northern Bering and Chukchi Seas**

### **February 7-8, 2023**

#### **SSC workshop: Rapid change in the northern Bering and southern Chukchi Seas - Identifying ecosystem responses and effects on the management of Federal fisheries**

February 7-8, 2023

Courtyard Ballroom, Renaissance Hotel, Seattle, WA; and online - zoom info:

<https://us06web.zoom.us/j/81451130091>

The purpose of the workshop is to identify the science and monitoring requirements for supporting future Council decision-making under increased uncertainty, given recent extreme environmental events in the northern Bering Sea region. The workshop will consider how species that are currently managed under the Bering Sea Fishery Management Plans will respond to environmental changes and the potential socioeconomic and cultural impacts on those fishermen, communities, and Tribes who rely on these marine resources. The intent is to explore proactive management approaches for achieving management goals in a changing environment, and an assessment of how existing frameworks may or may not be able to address ecosystem variability. The report and recommendations from this workshop will be considered by the SSC, AP, and Council at the April 2023 meeting.

**Public comment:** Written public comment can be submitted ahead of the February workshop. There will also be brief public comment periods each day during the workshop. Finally, the SSC will open second public comment period after the workshop through the end of February for any additional public comments that may inform the development of the workshop report.

**Parking:** There is a discounted NPFMC parking rate of \$22 for the meeting, based on availability. Self park in the hotel lot and bring your receipt to the front desk to get stamped with the discounted rate.

#### **Report from Workshop**

#### **Administrative**

**Between Feb 8-28, please submit here any additional thoughts on the workshop for the SSC to consider in developing the report to the Council for April**

##### **Schedule**

**Attachments:** [Workshop Agenda and Session Descriptions \(LINK\)](#)

**Please submit all written comments in advance of the workshop here**

**Attachments:** [SSC flyer soliciting comments](#)

##### **Report**

**Attachments:** [Final SSC Feb 2023 Workshop Report](#)

[SSC 2023 Workshop Flyer \(link\)](#)

#### **TUESDAY, FEBRUARY 7, 1-5pm**

**Welcome, Introductions, Workshop objectives**

**Attachments:** [Council Perspective\\_Tweit\\_PPT](#)  
[Council Perspective\\_Tweit\\_Remarks](#)  
[SCS7 Overview\\_Stram](#)  
[Science Management Needs\\_Foy](#)

**Session 1: What do we know about the current state and near-term future environmental and ecological states of the northern Bering Sea and southern Chukchi Sea?**

**Attachments:** [Physical Oceanography\\_Danielson](#)  
[Phytoplankton and Zooplankton\\_Kimmel](#)  
[Epibenthos\\_Loggerwell-Sutton](#)  
[Seabirds\\_Gall](#)  
[Mammals\\_Cameron](#)  
[Commercial Groundfish\\_Mueter](#)

Open mic / public comment: what else should the SSC consider to address Council goals?

**WEDNESDAY, FEBRUARY 8, 8am-12pm**

Recap and SSC Discussion of Session 1

Attachments:      [Recap of Session 1](#)

Incorporating climate predictions into ecosystem response predictions - NOAA initiatives

Attachments:      [ACLIM\\_Holsman](#)

Session 2: What data do we need to collect or monitor in the northern Bering Sea and the southern Chukchi Sea?

Attachments:      [S2 Discussion Prompts](#)

**WEDNESDAY, FEBRUARY 8, 1pm-5pm**

Session 3: Science to management: what tools do we have or need to apply these data to management of Bering Sea Fisheries?

Attachments:      [Nonstationarity and Dynamic reference points\\_Cunningham-Stewart](#)

Open mic / public comment: what else should the SSC consider to address Council goals?

SSC Discussion and Workshop Recommendations