



SSC 2023 WORKSHOP SCHEDULE

Courtyard Ballroom, Renaissance Hotel, Seattle, WA

Meeting materials: [eAgenda](#); Zoom info: <https://us06web.zoom.us/j/81451130091>

Tuesday, Feb 7

Introductions	13:00	SSC Welcome	Franz Mueter
	13:10	Council Perspective	Bill Tweit
	13:20	SCS7 Summary	Diana Stram
Session 1 <i>What do we know?</i>	13:40	Science Management Needs	Bob Foy
	14:00	Physical Oceanography	Seth Danielson
		Phytoplankton and Zooplankton	Lisa Eisner / Dave Kimmel
		Epibenthic Community & Pelagic-benthic Coupling	Lauren Sutton / Libby Logerwell
	15:00	<i>Break</i>	
	15:20	Seabirds	Adrian Gall / Robb Kaler
	Mammals	Michael Cameron / John Bengtson	
	Commercial Groundfish	Franz Mueter / Kerim Aydin / Lauren Rogers	
	16:30	Open Mic / Public Comment	

Wednesday, Feb 8

	8:00	Recap & SSC discussion of Session 1	Bob Foy
Session 2 <i>What data do we need?</i>	9:00	ACLIM/CEFI	Kirstin Holsman
	10:00	<i>Break</i>	
	10:20	SSC Discussion:	
		Resource surveys	Dana Hanselman (discussion lead)
		Biological info	Chris Siddon (discussion lead)
		Other Ecosystem	Amy Bishop (discussion lead)
		Sources of knowledge	Mike Downs (discussion lead)
		General discussion Session 2	Franz Mueter
	12:00	<i>Lunch</i>	
Welcome	13:00	Welcome & overview for new participants	Franz Mueter
Session 3 <i>What tools do we need?</i>	13:15	Tools for non-stationarity	Curry Cunningham
		Dynamic reference points	Ian Stewart
		SSC Session 3 discussion	Dana Hanselman (discussion lead)
	14:00	Open Mic / Public Comment	
	15:00	<i>Break</i>	
Conclusions	15:20	SSC Discussion and Recommendations	Franz Mueter
		Next Steps	Sherri Dressel
	17:00	End	



North Pacific Fishery Management Council

Simon Kinneen, Chair | David Witherell, Executive Director
1007 W. 3rd Avenue, Suite 400, Anchorage, AK 99501
Phone 907-271-2809 | www.npfmc.org

SSC Session Descriptions

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
Meeting materials: [eAgenda](#); Zoom: <https://us06web.zoom.us/j/81451130091>

February 7, 1:00 PM – 5:00 PM

- **Session 1: What do we know about the current state and near-term future environmental / ecological states of the northern Bering Sea and southern Chukchi Sea?** This session will include a series of presentations and some discussion on the current state of this region. Invited presentations will focus on:
 - The physical environment of this region including oceanography, climate trends, and extreme event expectations.
 - Lower trophic level response to environmental change with consideration of benthic-pelagic coupling (phytoplankton, zooplankton, epibenthic invertebrates, and forage species).
 - Upper trophic level response to environmental change (seabirds and marine mammals).
 - Commercial species response to environmental change (key species where we have information on habitat, movement, or production shifts).

Open discussion: what else should the SSC consider to address Council goals?

February 8, 8:00 AM – 5:00 PM

- SSC discussion on Session 1: gaps in understanding, priority focal areas or species, or actions needed.
- A presentation on incorporating climate predictions into ecosystem response predictions. This will include the Alaska Climate Integrated Modeling project and the Climate Ecosystem Fisheries Initiative led by NOAA.
- **Session 2: What data do we need to collect or monitor in the northern Bering Sea and the southern Chukchi Sea?** The intent in both regions is focus on supporting the Bering Sea Fishery Management Plans. This will be a SSC discussion to include:
 - Resource surveys.
 - Biological information (e.g. early life history, distribution, growth, species interactions) on commercial species.
 - Other ecosystem information (ocean conditions, prey availability, seabirds and marine mammals).
 - Sources of knowledge from communities and industry (including local knowledge, traditional knowledge, and subsistence information).
- **Session 3: Science to management: what tools do we have or need to apply these data to management of Bering Sea Fisheries?** Building on the [7th national meeting](#) of the Scientific Coordination Subcommittee (SCS7) established by the Council Coordination Committee, presentations and SSC discussion will focus on:
 - Tools for addressing non-stationarity in harvest control rules and fisheries management.
 - Dynamic reference points.

Open discussion: what else should the SSC consider to address Council goals?

- SSC discussion and recommendations on workshop