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### **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>

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#### **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



