## W6: [FIS](https://meetings.pices.int/members/committees/FIS)/[HD](https://meetings.pices.int/members/committees/HD) Topic Workshop Bridging Multiple Way of Knowing within an Integrated Ecosystem Assessment to understand the social and ecological changes in the Northern Bering and Chukchi Seas

## Workshop Objectives

The main objectives for the workshop are to:

1. Describe linkages and knowledge pathways among regional organizations across scale (e.g., Indigenous communities, government agencies, NGOs, research networks, academic institutions) in the NBS-CS
2. Document meanings, relationships, processes, and values associated with the NBS-CS ecosystem using a framework rooted in Indigenous Knowledge and designed to coordinate diverse perspectives.

## Logistics

Date: Saturday, 24 September 2022

Time: 9am - 5pm

## Agenda

### Session I

**Introductions**

* Overview of the workshop schedule
* Participant introductions: *Please introduce yourself, and if you brought an item or idea that represents your connection to place, to your research/work, and/or to your values.*

**Presentations**

* Sarah Wise
  + Lay of the Land: graphical representation of community and institutional connections
  + Report out on NBS/CS IEA workshop in Alaska
* Henry Huntington
  + How do you track change in the ecosystem? Perspectives from three different places in the Northern Bering Sea
* Working group members - discussion topics
  + Present recordings and quotes from participants of previous workshop (Anchorage 2022). Below are examples of what may be shared:
    - What are connectivity and/or relationality? Descriptions of some important values/principles regarding both.
    - Connectivity and cross border communication.
    - What would you want to share with western scientists? What might they need to know about the Indigenous Knowledge perspective of the Northern Bering Sea?
    - How to integrate into decision-making/resource management.
    - What are Indigenous Conceptual Models
    - What is co-production, and what is needed for it to happen?

*Group Discussion*

* Feedback on report/results from NBS/CS IEA workshop in Alaska
  + Participants asked to share examples of when they have been involved with co-production
  + What are some opportunities, from your perspective? What are some challenges? What tools do you need to participate?
  + What is your perspective on how you track ecosystem change?
* Discuss comments and questions about presentations

*Lunch together*

### Session II – Collaborative Work Session

**Working Session**

* Write outline of framework, proposal, paper

**Break**

**Working Session**

* Add content/descriptions to outline

**Wrap up and next steps**

## Workshop Abstract (for reference)

The target LME of WG 44 is the Northern Bering Sea-Chukchi Sea (NBS-CS) which is undergoing rapid transition caused by climate change. Declines in seasonal sea ice, increased storm events, and warm temperatures are driving substantial changes in socio-ecological systems. New commercial opportunities such as shifting fisheries, oil and gas exploration, increased vessel traffic (shipping and access to land-based natural resources), and Arctic tourism will have uncertain cumulative impacts on coastal communities in the Northern Pacific and beyond. The NBS-CS Integrated Ecosystem Assessment will improve understanding of critical interconnected systems processes and inform decision-making and management. Including Indigenous Knowledge in the IEA provides best available expert knowledge to understand the past, present, and future socio-ecological conditions of the region. Indigenous Peoples across North Pacific communities have relied on marine resources for food security, social cohesion, economic livelihood, and cultural continuity for millennia. Including Indigenous Knowledge in the IEA process will enhance understand of changing social-ecological conditions while offering a longitudinal perspective across generations of ecological experience and observations. Employing a co-production approach, this workshop will generate a collaborative understanding of the multiple ways of knowing, experiencing, using, and valuing the North Pacific ecosystem. The main objectives for the workshop are to 1) describe linkages and knowledge pathways among regional organizations across scale (e.g., Indigenous communities, government agencies, NGOs, research networks, academic institutions) in the NBS-CS, and 2) document meanings, relationships, processes, and values associated with the NBS-CS ecosystem using a framework rooted in Indigenous Knowledge and designed to coordinate diverse perspectives. The results of the workshop will inform the regional NBS-CS IEA process while offering an innovative model for broader knowledge synthesis and co-production.