

Ecosystem Approach to Management Expert Group

Joint PAME-AMAP-CAFF-SDWG

Co-chairs

USA (Libby Logerwell)

Norway (Lis Lindal Jørgensen)



8.1 Summary status of the EA-EG work plan items

a) Status on the planning of the 7th EA Workshop

Topic: Values and valuation of the cultural, social and economic goods and services produced by Arctic ecosystems

Venue: University of Alaska, Nome

Time: 29 September – 1 October 2020

Workshop objectives:

1. Explore the relation between cultural and social values and the issue of valuation of ecosystem goods and services.
2. Consider the compatibility and approaches to deal with monetary and other non-monetary values (e.g. cultural and spiritual).
3. Identify next steps for work on the element of valuation in the Ecosystem Approach framework.

Planning committee formed (EA-EG, AMAP, CAFF, SDWG, PP)

8.1 Summary status of the EA-EG work plan items

b) Status of the “Report on development in defining or setting Ecological Objectives



Agenda 8.1b - Report on ecological objectives

- Setting ecological objectives is one of the 6 elements of the EA framework
- 5th EA workshop, Bergen, Norway, May 2015
- Need for more ‘conceptual thinking’
- Included in the 2019-2021 work plan
- Draft outline at this meeting
- First draft at PAME II 2020
- Final report at PAME I 2021 – potential ministerial deliverable

Report on ecological objectives – part 1

- **Concepts, terminology and definitions**
- Ecological objectives
- Ecological quality objectives
- Types of ecological objectives
- Harvested species, threatened species, habitats including MPAs, environmental quality
- Hierarchy of objectives – from high-level general to specific operational

Report on ecological objectives – part 1

- Management objectives
- Ecological objectives in environmental legislation
- Indicators
- Reference values
- Natural variability including climate change
- Integrated ecosystem assessment - IEA

Report on ecological objectives – part 2

- Experiences from practical applications
- International level – UN – UNEP, CBD, FAO, others
- IUCN, WWF?
- EU – Marine Strategy Framework Directive MSFD - Arctic EU member states
- Nordic Council of Ministers?
- National level – relevant activities in the Arctic countries

Report on ecological objectives

- **Next steps**

- We are seeking contributions and contributing authors, particularly for part 2
- Prepare 1st draft by summer 2020
- Circulate for comments among 'project group'
- Present 1st draft to PAME II 2020
- Revise and present final draft to PAME I 2021

8.2 Update on the ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment (IEA) in the Central Arctic Ocean (WGICA).



IEA Working Groups in the Arctic

New

New

Large Marine Ecosystem (LME)	Institution	Involved responsible countries	Leads year 2020
Barents Sea WGIBAR	ICES	Norway and Russia	E. Eriksen (NO) A. Filin (RU)
Norwegian Sea WGINOR	ICES	Norway, Iceland and Faroe Islands	P. Arneberg (NO) A. Ólafsdóttir (ICE)
Central Arctic Ocean WGICA	ICES-PICES-PAME	Several countries	LL. Jørgensen (NO) J. Bengtson (USA) S. Saitoh (JAP)
N. Bering – Chukchi Seas WGNBC	PICES-ICES	USA and Russia	L. Logerwell (USA) Yury Zuenko (Russia)
Greenland Sea WGIEAGS	ICES	United Kingdom of Denmark	Colin Stedmon (DK) Jesper Boje (DK)

PICES/ICES WG IEA Northern Bering & Chukchi Seas

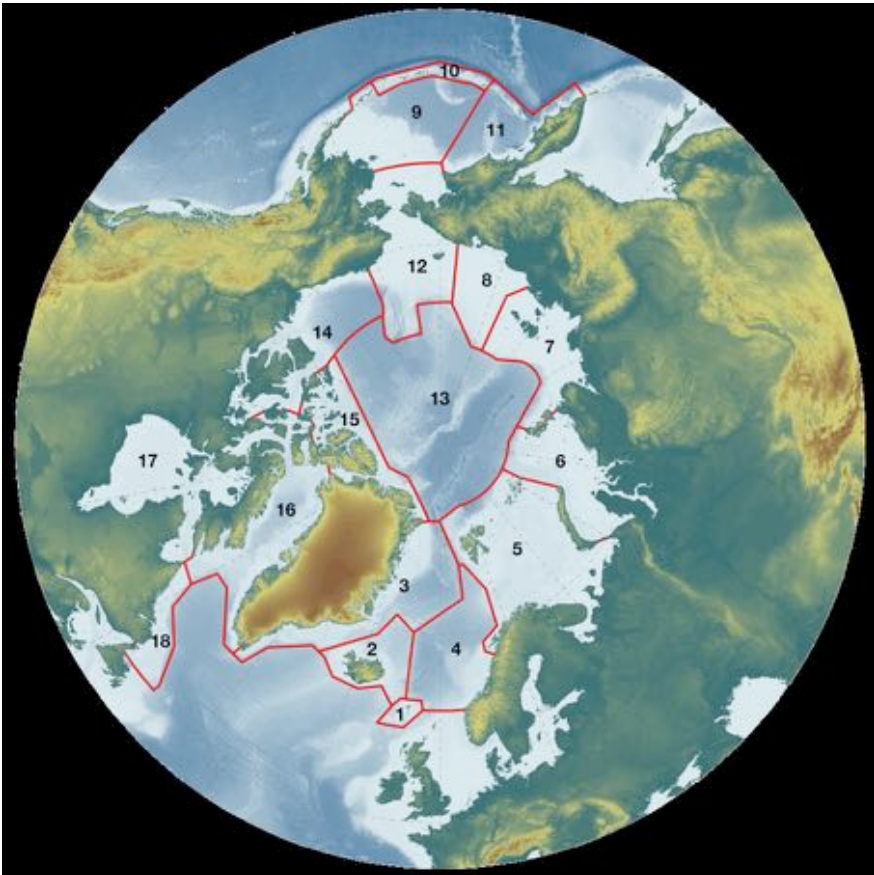
- Fall 2019 - 2022
- General Terms of Reference
 - Convene an interdisciplinary and international working group membership
 - Include Arctic peoples and Indigenous Knowledge systems
 - Identify and consult with partners and institutions
- 3-year work plan resulting in an Integrated Ecosystem Assessment
- Chairs: USA (Logerwell) & Russia (Zuenko)
- Membership: USA, Russia, Canada, China, S Korea, Japan, Norway (ICES)

ICES WG IEA Greenland Sea



- 2020 – 2022
- Terms of Reference
 - ToR a Assemble relevant data for describing spatial and temporal changes
 - ToR b Review and consider methodological approaches and analytical tools
 - ToR c Report on the status and trends based on integrated analysis of multivariate datasets, incl. associated with major hydroclimatic changes and human activities
 - ToR d Prepare an Ecosystem Overview
- Chairs: Denmark/Greenland (Boje) and Denmark (Stedmon)
- Membership: Denmark, Greenland, Norway, Iceland

WGICA - Working Group on Integrated Assessment of the Central Arctic Ocean



Chaired by ICES-PICES-PAME

Sei-Ichi Saitoh (Japan)

John Bengtson (USA)

Lis L. Jørgensen (Norway)





Report 1 (2018)

*Integrated Ecosystem Assessment of the Central Arctic Ocean: **Ecosystem description and vulnerability characterization***



Report 2 (2021)

Human activities and (potential) impacts on the CAO ecosystem

WGICA: Terms of Reference (ToR) for Report 2

ToR a – Approach an **methodology** for doing an IA

ToR b – Report on **ongoing changes**

ToR c – Assess likely consequences of projected future changes associated with **further loss of sea-ice**

ToR d - Assess transport pathways and **potential effects of contaminants**

ToR e – Report on new studies on **fish as well as other biological components**

ToR f – Identify priority **research needs** and **knowledge gaps**.

ToR g – Prepare an **Ecosystem Overview**



8.3 Provisional Scientific Coordinating Group under the Agreement to Prevent Unregulated High Seas Fisheries in the Central Arctic Ocean

Parties: Canada, China, Denmark (Faroe Islands and Greenland), EU, Iceland, Japan, Korea, Norway, Russia and USA

Scientific meeting 11-13 February 2020, Ispra, Italy

- **ToR 1** Develop Interim **Rules of Procedure**
- **ToR 2** Incorporate **indigenous and local knowledge**.
- **ToR 3** Update opportunity for **mapping** work and identify the **knowledge** gaps.
- **ToR 4** Prioritize **mapping** work based on identified gaps.
- **ToR 5** Update the Inventory of **Monitoring Programs** in the High Seas CAO and adjacent water

8.4 Collaborations with other Arctic Council working groups on EA-relevant activities

- Distribute the Progress Report annually
- Invite CAFF, AMAP and SDWG into the planning group of workshops and conferences
- Invite CAFF, AMAP and SDWG to help formulate the next work plan (2021-2023)
- Contribute to the EBM agenda at the “Marine Issues” component of the SAO meeting in Iceland (March 2020)?