

Resolutions for ICES-sponsored symposia

- 1 Symposium on Capelin—The canary in predicting effects of climate on the Arctic marine environment 2
- 2 Symposium on Ecosystem Effects of Climate Change on the World’s Ocean 5 (ECCWO-5) 7

1 Symposium on Capelin—The canary in predicting effects of climate on the Arctic marine environment

Resolution Form: Symposium

Review the ICES Symposium Guidelines for Conveners before submitting this resolution form. Once approved, all resolution information on this form will be publicly available on the ICES website.



Resolution Term (yyyy-mm-dd)

Select a 2-year term. Start date is January 1 of the year before the symposium. End date is December 31 of the symposium year.

Start Date: 2021-01-01

End Date: 2022-12-31

Symposium Title (max 280 characters)

Capelin -- The canary in predicting effects of climate on the Arctic marine environment

Symposium Conveners (max 5)

Full Name	Institute	Email	Country
Samuel Subbey	IMR, Bergen	samuels@imr.no	Norway
Johanna Fall	IMR, Bergen	Johanna.fall@imr.no	Norway
Warsha Singh	MFRI	Warsha.singh@hafogvatn.is	Iceland
Kerim Aydin	NOAA	Kerim.aydin@noaa.gov	USA
Hannah Murphy	DFO	Hannah.murphy@dfo-mpo.gc.ca	Canada

Symposium Website URL (if known)

Scientific Justification (max 1500 characters)

Describe the aims, objectives, and anticipated outcomes of the symposium and the relevance of the symposium to the ICES Science, Advisory, and/or Strategic Plans.

Because of its responsiveness to changes in the marine environment, it has been suggested by Rose (2005) that the capelin could be a “canary in the coalmine” to detect signals of changes in the Arctic Ocean.

This 5-day symposium will seek to determine how the link between capelin migration and environmental change can help identify realistic timescales for tipping points and major disruptions in the Arctic marine environment. The symposium will seek to revise and expand our knowledge base on capelin biology, ecology, and roles in the Arctic and Sub-Arctic ecosystems, with focus on the capelin stocks in the following Sub-Arctic regions (i) Barents Sea (ii) waters around Iceland–East Greenland–Jan Mayen (iii) the Newfoundland–Labrador Shelf (iv) Gulf of Alaska and Bering Sea.

The symposium will seek to publish papers with broad focus on:

- (i) Capelin biology, ecology, and production -- interplay between physiology, genetics and the physical ocean environment, and how these interactions have affected, e.g., triggers of capelin migration, migration patterns and adaptation strategies.
- (ii) Impact(s) of variable capelin production on food webs in North Atlantic Systems
- (iii) Managing commercial fisheries for capelin in North Atlantic marine systems under evolving climate change

The Symposium is relevant to ICES Science Plan topics on 'Ecosystem Science' and Advisory topics on 'Evolving Advice'.

Symposium Dates (yyyy-mm-dd)

Start Date: 2022-10-10	End Date: 2022-10-15
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Venue (specific place such as the conference centre)	Expected Number of Participants
Bergen	Approximately 100-150

City/Town	Country
Bergen	Norway

Comments on dates, venue, location, and participants (max 500 characters) For example, if any of the symposium details are tentative, provide potential dates (month/year), expected duration (# of days), venue(s) and location(s) under consideration.
The dates are tentative.

Symposium Programme (max 1500 characters) Briefly describe the symposium programme, including any pre- or post-symposium workshops, training, early career activities, and other coordinated events.
The workshop will be organized under four main themes, spread over four days. The final day will be devoted to round-table plenary discussion of issues arising from the theme sessions, and formation of an international Arctic Canary Network to forge closer cooperation among all relevant disciplines (oceanography, biology/ecology, mathematics/statistics etc.) in coordinated capelin research/collaboration. Each theme session will be introduced through a keynote presentation by an early career scientist. Theme 1— Bottom-up processes underpinning production in North Atlantic marine systems undergoing climate change Theme 2—Capelin biology, ecology, and production in response to climate variation in North Atlantic marine systems Theme 3—Impact(s) of variable capelin production on food webs in North Atlantic systems Theme 4—Managing commercial fisheries for capelin in North Atlantic Marine systems under climate change

Acronym(s) of ICES Expert Groups, Strategic Initiatives, Steering Groups, Operational Groups, and Other Groups Contributing to the Symposium (optional)
Initiated communication (verbal at this moment) with AFWG and WGIBAR.

Contributions by ICES Representatives (max 1500 characters) How will ICES representatives contribute to the planning and organisation of the symposium? For example, members of the ICES community may be conveners, session chairs, serve on the planning board, scientific and organising committees, assist with the selection of plenary speakers, awards, and early career support. Additionally, if ICES representatives are already involved in the symposium, please provide this information.
ICES representatives are already involved in planning of the symposium, and in identifying key people within the ICES community who may serve as members of the scientific and organizing committees. A local planning committee is currently working to identify, within the ICES community, session chairs, and early career scientists who may serve as plenary speakers.

Resource Request (max 1500 characters)

Before completing this section, conveners should read the ICES Symposium Guidelines for Conveners outlining the types of financial, coordination, and technical support that can be provided by ICES. List below all items requested of ICES to support this symposium. This must include specifics of any financial request, assistance with early career support applications, symposium registration, advertising, and/or website and virtual conference hosting, plans to use the ICES logo, etc. Clearly identify and describe requests that will require any time of ICES Secretariat staff such as coordination and technical support. This information is required so that the ICES Secretariat can assess its ability to fulfil these requests.

The symposium will require an endorsement by ICES of the objectives and scientific excellence of the planned symposium, in addition to requiring 9000 Euros for (travel, accommodation) support for Early Career Scientists. The goal is to use ICES Journal of Marine Science as an outlet for the publication of the symposium proceedings.

We hope to get local support for hosting the symposium website, registration to attend, and for submission of abstracts.

Additional Funding Sources (max 1500 characters)

List all current, pending, and to be requested support from other sources.

The main application for financial support of the symposium will be sent to the Norwegian Research Council.

Plans for Publication of the Proceedings

Specify potential publication outlet(s) below. For specific information on publishing proceedings in the ICES Journal of Marine Science (IJMS), refer to the ICES Symposium Guidelines.

Publication intended (specify): ICES IJMS

No publication intended

General Information**Resolution Status (select one)**

New resolution

This resolution has not been previously approved by the Advisory Committee (ACOM), Science Committee (SCICOM), and/or ICES Council.

Amendment to an approved resolution

This is a change to a currently active resolution that has been previously approved. Common amendments include changes to conveners, updates to symposium dates and venue, and term extensions following unavoidable delays.

One-Sentence Summary (max 280 characters)

Describe the central purpose of this resolution written for non-experts for use on the ICES website and social media. Use active voice, plain language with simple words that convey meaning, and avoid jargon.

Charting effects of climate change on the Arctic marine environment through capelin, a sea canary

ICES Advisory Plan Priorities (select up to two if relevant to this resolution)

Priority 1: Evolving advice

Priority 2: Identifying needs

ICES Science Plan Priorities (select up to two if relevant to this resolution)

Priority 1: Ecosystem science

Priority 2: Conservation and management science

Additional Comments (if required, max 500 characters)

Restrict comments to those that are required to understand and review this resolution and for which there is no existing box on the form (e.g., request for a special resolution term duration).

Geographic Focus (select one or more)

Non-geospecific

Select non-geospecific when the resolution is not closely focused on a specific geographic region (e.g., symposium focused on techniques or processes).

ICES Ecoregions and Adjacent Ecoregions	Areas outside ICES Ecoregions and Adjacent Ecoregions
<input type="checkbox"/> Adriatic Sea <input type="checkbox"/> Aegean-Levantine Sea <input type="checkbox"/> Arctic Ocean <input checked="" type="checkbox"/> Atlantic, Northeast (FAO area 27) <input type="checkbox"/> Azores <input type="checkbox"/> Baltic Sea <input checked="" type="checkbox"/> Barents Sea <input type="checkbox"/> Bay of Biscay and the Iberian Coast <input type="checkbox"/> Black Sea <input type="checkbox"/> Celtic Seas <input type="checkbox"/> Faroes <input type="checkbox"/> Greater North Sea <input type="checkbox"/> Greenland Sea <input checked="" type="checkbox"/> Icelandic Waters <input type="checkbox"/> Ionian Sea and the Central Mediterranean Sea <input type="checkbox"/> Norwegian Sea <input type="checkbox"/> Oceanic Northeast Atlantic <input type="checkbox"/> Western Mediterranean Sea	<input type="checkbox"/> Arctic Sea (FAO area 18) <input type="checkbox"/> Atlantic, Antarctic (FAO area 48) <input type="checkbox"/> Atlantic, Eastern Central (FAO area 34) <input checked="" type="checkbox"/> Atlantic, Northwest (FAO area 21) <input checked="" type="checkbox"/> Atlantic, Southeast (FAO area 47) <input type="checkbox"/> Atlantic, Southwest (FAO area 41) <input type="checkbox"/> Atlantic, Western Central (FAO area 31) <input type="checkbox"/> Indian Ocean, Antarctic and Southern (FAO area 58) <input type="checkbox"/> Indian Ocean, Eastern (FAO area 57) <input type="checkbox"/> Indian Ocean, Western (FAO area 51) <input type="checkbox"/> Mediterranean and Black Sea (FAO area 37) <input type="checkbox"/> Pacific, Antarctic (FAO area 88) <input type="checkbox"/> Pacific, Eastern Central (FAO area 77) <input type="checkbox"/> Pacific, Northeast (FAO area 67) <input type="checkbox"/> Pacific, Northwest (FAO area 61) <input type="checkbox"/> Pacific, Southeast (FAO area 87) <input type="checkbox"/> Pacific, Southwest (FAO area 81) <input type="checkbox"/> Pacific, Western Central (FAO area 71)

Close Links to Other Organisations (if relevant)

Select scientific cooperation, agreements, partnerships, and other close links from the list below. Other links can be specified at the bottom of this table, but restrict your list to pertinent organisations that are closely associated with this resolution.

No close links to other organisations

United Nations Organisations and Programmes

- European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC)
- Food and Agriculture Organization of the United Nations (FAO)
- International Maritime Organization (IMO)
- International Sea bed Authority (ISA)
- Secretariat of the Convention on Biological Diversity (CBD)
- UN Environment (UNEP)
- UN Education, Scientific, and Cultural Organization – Intergovernmental Oceanographic Commission (UNESCO-IOC)

European Commission and its Agencies

- European Commission (EC)

<input type="checkbox"/> European Environment Agency (EEA) <input type="checkbox"/> European Fisheries Control Agency (EFCA) <input type="checkbox"/> Joint Research Council (JRC) <input type="checkbox"/> Regional Coordination Groups (RCGs) <input type="checkbox"/> Statistical Office of the European Communities (EUROSTAT)
Regional Fisheries Organisations and Management Organisations (RFOs/RFMOs) <input type="checkbox"/> General Fisheries Commission in the Mediterranean (GFCM) <input type="checkbox"/> International Commission for the Conservation of Atlantic Tunas (ICCAT) <input type="checkbox"/> North Atlantic Salmon Conservation Organization (NASCO) <input type="checkbox"/> North East Atlantic Fisheries Commission (NEAFC) <input type="checkbox"/> Northwest Atlantic Fisheries Organization (NAFO)
Regional Sea Conventions <input type="checkbox"/> Baltic Marine Environment Protection Commission (HELCOM) <input type="checkbox"/> Convention for the Protection of the marine Environment of the North-East Atlantic (OSPAR)
Arctic Networks <input type="checkbox"/> Arctic Monitoring and Assessment Programme (AMAP) <input type="checkbox"/> Conservation of Arctic Flora and Fauna (CAFF) <input checked="" type="checkbox"/> International Arctic Science Committee (IASC) <input type="checkbox"/> Protection of the Arctic Marine Environment Working Group (PAME)
Scientific Intergovernmental Organisations (IGOs) <input type="checkbox"/> Mediterranean Science Commission (CIESM) <input type="checkbox"/> North Atlantic Marine Mammal Commission (NAMMCO) <input type="checkbox"/> North Pacific Marine Science Organization (PICES)
Other <input type="checkbox"/> European Aquaculture Society (EAS) <input type="checkbox"/> Integrated Marine Biosphere Research project (IMBeR)

Other Organisations(s) not listed above (if relevant)	

ICES Secretariat to complete the information below

Unique Identifier Include the auto-generated identifier when the <u>approved</u> resolution is added to the resolution database. RES-1

Resolution Parent (select one) Symposia should generally select SCICOM. SCICOM

Professional Officer (if relevant)	Supporting Officer (if relevant)
Julie Kellner	Maria Lifentseva

Secretariat Comments (max 500 characters) Only include essential comments that can be made public and must stay with the resolution.

2 Symposium on Ecosystem Effects of Climate Change on the World's Ocean 5 (ECCWO-5)

Resolution Form: Symposium

Review the ICES Symposium Guidelines for Conveners before submitting this resolution form. Once approved, all resolution information on this form will be publicly available on the ICES website.



Resolution Term (yyyy-mm-dd)

Select a 2-year term. Start date is January 1 of the year before the symposium. End date is December 31 of the symposium year.

Start Date: 2022-01-01

End Date: 2023-12-31

Symposium Title (max 280 characters)

Ecosystem Effects of Climate Change on the World's Ocean 5 (ECCWO-5)

Symposium Conveners (max 5)

Full Name	Institute	Email	Country
Geir Huse	Institute of Marine Research	geir.huse@hi.no	Norway
Jörn Schmidt	ICES	joern.schmidt@ices.dk	Denmark

Symposium Website URL (if known)

www.pices.int/ECCWO-5

Scientific Justification (max 1500 characters)

Describe the aims, objectives, and anticipated outcomes of the symposium and the relevance of the symposium to the ICES Science, Advisory, and/or Strategic Plans.

The International Symposium "Ecosystem Effects of Climate Change on the World's Ocean 5 (ECCWO-5)" will bring together experts from around the world to better understand climate effects on ocean ecosystems and how adaptation and mitigation measures could look like and be implemented. The symposium is continuing the successful series of ECCWO symposia over the last years.

The Symposium will:

Highlight the latest information on how oceans are changing, what is at risk and how to respond;
Identify key knowledge gaps; Promote collaborations; and stimulate the next generation of science and actions.

The Symposium will include:

Theme sessions, presentations, and posters
Opportunities for post-meeting workshops
Special events for early career scientists
Exhibit Opportunities
Networking sessions

An objective for this Symposium is to present current research results and to facilitate the uptake of these new results in other analyses, including (but not restricted to) the forthcoming Assessment Report (AR7) of the IPCC. The symposium will also feed into the UN Decade of Ocean Science for Sustainable Development and address the SDGs, specifically SDGs 13 and 14. We plan a Special Volume from the symposium. The symposium is highly relevant to the science plan priorities of ICES including ecosystem science, impacts of human activities, seafood production and sea and society. It is also very relevant to the ICES/PICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems.

Symposium Dates (yyyy-mm-dd)	
Start Date: 2023-04-17	End Date: 2023-04-21

Venue (specific place such as the conference centre)	Expected Number of Participants
TBD	500 (physical participation, more options for remote participation)

City/Town	Country
Bergen	Norway

Comments on dates, venue, location, and participants (max 500 characters)

For example, if any of the symposium details are tentative, provide potential dates (month/year), expected duration (# of days), venue(s) and location(s) under consideration.

The symposium will commence on the 17th of April 2023 and go on for a total of five days. The location will be Bergen and tentatively the Radisson SAS hotel at the historic Bryggen area is the venue. Alternatively, there are other potential venues including the Grieghall. Remote participation will be facilitated.

Symposium Programme (max 1500 characters)

Briefly describe the symposium programme, including any pre- or post-symposium workshops, training, early career activities, and other coordinated events.

Steering structure

As in the previous symposium (ECCWO-4, <https://meetings.pices.int/meetings/international/2018/climate-change/scope>) in Washington DC, ECCWO-5 will be arranged jointly by ICES, PICES, IOC and FAO. There will be one convener appointed per organisation. The steering committee will be appointed by the conveners. The IMR will be the local host for the meeting.

Plenary Sessions

Morning plenary sessions to provide overarching keynote presentations and to introduce topics for the concurrent sessions to be convened on the same day.

Topic sessions

Concurrent Topic Sessions every day, following the morning plenary session. There will be 12-15 topic sessions. Sessions themes and chairs will be decided by steering committee and conveners.

Workshops

In addition to the Topic Sessions there will be Workshops on 17-18 April where themes and chairs will be proposed by attendants.

The One Ocean Expedition

The tall ship Statsraad Lehmkuhl will return from its 19 months long circumnavigation of the world's ocean - the One Ocean Expedition ([One Ocean Expedition - Statsraad Lehmkuhl 2021-2023](#)). The expedition is part of the programme of the UN Decade for Ocean Science, and will include a scientific sampling programme. In association with the homecoming of SL there will be several ocean conferences focusing on industry issues, research, and sea & society. Symposium participants will be invited to take part in the ocean conferences which will take place the weekend and the week following ECCWO.

We will include specific activities for Early Career Scientists and add measures to ensure Diversity, Equity and Inclusion Throughout the Symposium.

Acronym(s) of ICES Expert Groups, Strategic Initiatives, Steering Groups, Operational Groups, and Other Groups Contributing to the Symposium (optional)

SCICOM, SICCME, SIHD

Contributions by ICES Representatives (max 1500 characters)

How will ICES representatives contribute to the planning and organisation of the symposium? For example, members of the ICES community may be conveners, session chairs, serve on the planning board, scientific and organising committees, assist with the selection of plenary speakers, awards, and early career support. Additionally, if ICES representatives are already involved in the symposium, please provide this information.

Jörn Schmidt and Wojciech Wawrzynski have taken part in the planning. Geir Huse, a Norwegian delegate to ICES has been leading the local arrangements from IMR. It is expected that many researchers from the ICES community will attend the meeting as participants and theme session conveners, and some will also be invited to be members of the steering committee and as keynote speakers.

Resource Request (max 1500 characters)

Before completing this section, conveners should read the ICES Symposium Guidelines for Conveners outlining the types of financial, coordination, and technical support that can be provided by ICES. List below all items requested of ICES to support this symposium. This must include specifics of any financial request, assistance with early career support applications, symposium registration, advertising, and/or website and virtual conference hosting, plans to use the ICES logo, etc. Clearly identify and describe requests that will require any time of ICES Secretariat staff such as coordination and technical support. This information is required so that the ICES Secretariat can assess its ability to fulfil these requests.

The Symposium requests 10,000 euros to support attendance of Early Career Scientists. The webpage as well as registration will be handled by PICES.

Support in advertising would be highly appreciated.

The attendance of the Secretariat Staff, the SCICOM Chair and the ICES President will place an additional financial burden on the Secretariat.

Additional Funding Sources (max 1500 characters)

List all current, pending, and to be requested support from other sources.

Current:

The Institute of Marine Research, Bergen, Norway

To be requested:
The Research Council of Norway
PICES
IOC
FAO
The Committee for Resource Research (Norway)
University of Bergen
City of Bergen
The European Commission
..

Plans for Publication of the Proceedings

Specify potential publication outlet(s) below. For specific information on publishing proceedings in the ICES Journal of Marine Science (IJMS), refer to the ICES Symposium Guidelines.

- Publication intended (specify): A special issue will be produced from the symposium. ICES Journal of Marine Science will be contacted shortly in this regard.
 No publication intended

General Information

Resolution Status (select one)

New resolution

This resolution has not been previously approved by the Advisory Committee (ACOM), Science Committee (SCICOM), and/or ICES Council.

Amendment to an approved resolution

This is a change to a currently active resolution that has been previously approved. Common amendments include changes to conveners, updates to symposium dates and venue, and term extensions following unavoidable delays.

One-Sentence Summary (max 280 characters)

Describe the central purpose of this resolution written for non-experts for use on the ICES website and social media. Use active voice, plain language with simple words that convey meaning, and avoid jargon.

ICES supports symposium on ecosystem effects of climate change on the world's ocean.

ICES Advisory Plan Priorities (select up to two if relevant to this resolution)

Priority 1: Choose an item.

Priority 2: Choose an item.

ICES Science Plan Priorities (select up to two if relevant to this resolution)

Priority 1: Ecosystem science

Priority 2: Impacts of human activities

Additional Comments (if required, max 500 characters)

Restrict comments to those that are required to understand and review this resolution and for which there is no existing box on the form (e.g., request for a special resolution term duration).

Geographic Focus (select one or more)

Non-geospecific

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Close Links to Other Organisations (if relevant)

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No close links to other organisations

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- European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC)
- Food and Agriculture Organization of the United Nations (FAO)
- International Maritime Organization (IMO)
- International Sea bed Authority (ISA)
- Secretariat of the Convention on Biological Diversity (CBD)
- UN Environment (UNEP)
- UN Education, Scientific, and Cultural Organization – Intergovernmental Oceanographic Commission (UNESCO-IOC)

European Commission and its Agencies

- European Commission (EC)
- European Environment Agency (EEA)
- European Fisheries Control Agency (EFCA)
- Joint Research Council (JRC)
- Regional Coordination Groups (RCGs)
- Statistical Office of the European Communities (EUROSTAT)

Regional Fisheries Organisations and Management Organisations (RFOs/RFMOs)

- General Fisheries Commission in the Mediterranean (GFCM)
- International Commission for the Conservation of Atlantic Tunas (ICCAT)
- North Atlantic Salmon Conservation Organization (NASCO)

<input type="checkbox"/> North East Atlantic Fisheries Commission (NEAFC) <input type="checkbox"/> Northwest Atlantic Fisheries Organization (NAFO)
Regional Sea Conventions <input type="checkbox"/> Baltic Marine Environment Protection Commission (HELCOM) <input type="checkbox"/> Convention for the Protection of the marine Environment of the North-East Atlantic (OSPAR)
Arctic Networks <input type="checkbox"/> Arctic Monitoring and Assessment Programme (AMAP) <input type="checkbox"/> Conservation of Arctic Flora and Fauna (CAFF) <input type="checkbox"/> International Arctic Science Committee (IASC) <input type="checkbox"/> Protection of the Arctic Marine Environment Working Group (PAME)
Scientific Intergovernmental Organisations (IGOs) <input type="checkbox"/> Mediterranean Science Commission (CIESM) <input type="checkbox"/> North Atlantic Marine Mammal Commission (NAMMCO) <input checked="" type="checkbox"/> North Pacific Marine Science Organization (PICES)
Other <input type="checkbox"/> European Aquaculture Society (EAS) <input type="checkbox"/> Integrated Marine Biosphere Research project (IMBeR)

Other Organisations(s) not listed above (if relevant)	

ICES Secretariat to complete the information below

Unique Identifier Include the auto-generated identifier when the <u>approved</u> resolution is added to the resolution database. RES-2

Resolution Parent (select one) Symposia should generally select SCICOM. SCICOM

Professional Officer (if relevant)	Supporting Officer (if relevant)
Jörn Schmidt	Julie Krogh Hallin

Secretariat Comments (max 500 characters) Only include essential comments that can be made public and must stay with the resolution.