



IASC

INTERNATIONAL
ARCTIC SCIENCE
COMMITTEE



JAN

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INTERDISCIPLINARITY IASC

IASC promotes system-scale Arctic activities and encourages Arctic scientists to explore interdisciplinary questions, in particular across the natural and social sciences. This approach is emphasized by IASC “Cross-Cutting” activities, which are supported by at least two of the five IASC Working Groups and ISIRA.

[<https://iasc.info/our-work/working-groups/cross-cutting-activities>]

IASC 2022

PHOTO: IREK SOBOTA

Ice drilling on Waldemarbreen, Svalbard, 2021.



FEB

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PHOTO: LUCA BRACALI

Northern lights in Kiruna, Sweden.



IASC ATMOSPHERE WORKING GROUP

The scientific scope of the AWG includes research towards understanding and predicting the Arctic climate system, its change, and impacts of this change. Priorities include Arctic air pollution, and its societal and climate impacts, the role of the Arctic atmosphere in the coupled climate system, and Arctic climate and weather predictability. Other key focus areas include atmosphere-ice and atmosphere-ocean coupling, Arctic paleoclimates, Arctic energy budget, and aerosol-cloud interactions in the Arctic.

[<https://iasc.info/our-work/working-groups/atmosphere>]

The scientific core elements of IASC are its five Working Groups, which facilitate and support international, science-led programs.

IASC 2022



MAR

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PHOTO: CHRISTIAN HALVORSEN

The Arctic University of Norway in Tromsø (UiT) hosts the ASSW2022. Shown in the picture is the Campus of UiT.



**ARCTIC SCIENCE SUMMIT WEEK & THE 6TH
ARCTIC OBSERVING SUMMIT**

The **Arctic Science Summit Week 2022** including the **Arctic Observing Summit 2022**, will take place in **Tromsø, Norway** on **26 March - 1 April 2022** in the facilities of UiT The Arctic University of Norway. ASSW2022 is jointly organized by IASC, UiT The Arctic University of Norway, the Norwegian Polar Institute, and the Research Council of Norway and will also include a Science Day focussing on Arctic remote sensing and remote sensing techniques on March 29. See you in Tromsø or online!

[assw.info]

IASC 2022



APR

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PHOTO: UNIVERSITY OF COLORADO/GLENN ASAKAWA.

Mountains Flatirons, just outside the University of Colorado Boulder, where ICARP IV will be hosted.



INTERNATIONAL CONFERENCE ON ARCTIC RESEARCH PLANNING IV (ICARP)

The International Conference on Arctic Research Planning (ICARP) is convened every decade by IASC and its partners. ICARP IV will identify key scientific questions that cut across disciplines and require new and innovative thinking, and will then develop science plans for addressing those questions. An integral aspect of the ICARP IV will be the inclusion of early career scientists, Indigenous peoples, and local residents in the development of these questions and the writing of the science plans to address them. IASC has started the planning and consultation process for ICARP IV.

[<https://iasc.info/our-work/icarp>]

IASC 2022



MAY

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PHOTO: GENNADY ZELENSKY

Traditional marine mammals hunters in Lorino, Chukotka.



ISIRA

The International Science Initiative in the Russian Arctic (ISIRA) is a Russian and international cooperative initiative to assist Arctic science and sustainable development in the Russian Arctic.

Международная научная инициатива в Российской Арктике (ISIRA / ИСИРА) — это совместная российская и международная инициатива с целью содействия научному сотрудничеству и устойчивому развитию в российской Арктике.

[<https://iasc.info/our-work/isira>]

IASC 2022



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IASC CRYOSPHERE WORKING GROUP

The CWG's research interests span all elements of the cryosphere - the frozen regions of our planet - including sea ice, icebergs, glaciers, ice caps, the Greenland ice sheet, snow cover, permafrost and seasonally frozen ground, and lake and river-ice.

The CWG helps promote activities that enhance our understanding of these cryospheric components of the Arctic/sub-Arctic and their interaction with the Earth's climate system.

[<https://iasc.info/our-work/working-groups/cryosphere>]

The scientific core elements of IASC are its five Working Groups, which facilitate and support international, science-led programs.

IASC 2022

PHOTO: IREK SOBOTA

Ice cliff of Avatmarkbreen, Svalbard, 2021



JUL

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PHOTO: JÓN BJÖRGVINSSON © 2021 SWISS POLAR INSTITUTE, CC BY 4.0
A researcher takes samples from the sea surface microlayer to study the effects of sea spray aerosols on clouds over the Arctic Ocean during the Arctic Century Expedition. Organised jointly by the Swiss Polar Institute (SPI), the Arctic and Antarctic Research Institute (AARI), in Russia and the Helmholtz Centre for Ocean Research Kiel (GEOMAR) in Germany, the Arctic Century Expedition is a multidisciplinary expedition that studied rarely accessible and remote areas in the Kara and Laptev Sea.



IASC MARINE WORKING GROUP

The scientific scope of the MWG shall include but not be limited to any marine natural science or engineering research. It facilitates international coordination of research in the Arctic marine environment and supports cross-cutting objectives through face-to-face annual meetings. Scientific foci include predicting and understanding rapid changes to the Ocean system, understanding biological and ecosystem processes in the Arctic and sub-arctic seas, sea ice structure dynamics and the Arctic system, geochemical processes in the Arctic and sub-arctic seas and enhancing and improving access to the paleo record of the Arctic Ocean through scientific drilling.

[<https://iasc.info/our-work/working-groups/marine>]

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IASC 2022



AUG

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PHOTO: ANNA LENA BERCHT

Hanging up Northeast Arctic cod (*Gadus morhua*) to produce the traditional air-dried Lofoten stockfish (preservation through drying) in Lofoten Islands, Norwegian Arctic, 2015.



IASC SOCIAL AND HUMAN WORKING GROUP

The scientific scope of the SHWG includes all aspects of social sciences, humanities, and health research in the Arctic, as well as their connections with other IASC Working Groups, and Arctic stakeholders, rights holders, and Indigenous knowledge keepers. A wide range of topics is therefore of interest to the SHWG, including human health and well-being; livelihoods and land use; geopolitics and peace in the Arctic; vulnerability and resilience in changing social-ecological systems; and perspectives of gender in Indigenous communities. As demonstrated by the supported activities in 2020/21, SHWG members address these topics in various ways: by going into depth on core concepts, promoting interdisciplinary educational initiatives, and bringing a global perspective to the Arctic.

[<https://iasc.info/our-work/working-groups/social-human>]

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IASC 2022



SEP

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PHOTO: FABIAN FOPP © 2021 SWISS POLAR INSTITUTE, CC BY 4.0
Researchers of the Arctic Century Expedition, exploring a snowbed on
Graham Bell Island, Franz Josef Land in the Russian High Arctic.



IASC TERRESTRIAL WORKING GROUP

The TWG fosters and supports a broad spectrum of activities, reflecting the geo-, bio-, and social diversity associated with the Arctic terrestrial and freshwater realms. Highlights include the launch of 'T-MOSAIC' (the Terrestrial Multidisciplinary distributed Observatories for the Study of Arctic Connections; <https://www.t-mosaic.com/>) as a circumpolar land-based program that complements the IASC-supported ocean-atmosphere program, MOSAIC.

[<https://iasc.info/our-work/working-groups/terrestrial>]

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IASC 2022



OCT

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PHOTO: CHRISTIAN MOREL

Nansen Legacy early career scientist Håvard Liholdt and Robynne Nowicki make a hole in the sea ice for biological sampling beneath the ice in the northern Barents Sea (Photo submitted by Lena Seuthe).



IASC CAPACITY-BUILDING

The IASC Fellowship Program engages early career scientists in the work of the IASC Working Groups. IASC Fellows are doctoral or postdoctoral researchers who are supported to participate in and help plan IASC activities and projects, as well as help with reporting to the IASC Secretariat. For 2022, IASC offers 6 IASC Fellowships (including one IASC Indigenous Fellow), one SDWG-IASSA-IASC Fellowship, and one SAON-IASC Fellowship. A call for applications is released each year in October, managed by APECS. IASC also supports programs to increase Indigenous participation in IASC science and ASSw, as well as science communication and other training activities.

[<https://iasc.info/capacity-building/fellowship-program>]

IASC 2022



NOV

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PHOTO: CHRISTIAN MOREL

Sampling of microalgae from sea ice melt ponds in the northern Barents Sea on a Nansen Legacy expedition with the Norwegian research icebreaker RV 'Kronprins Haakon'. (Photo submitted by Lena Seuthe).



IASC MEDAL

The IASC Medal is awarded each year in recognition of exceptional and sustained contributions to the understanding of the Arctic. The whole IASC community, from all countries, backgrounds, and career stages, is invited to submit nominations to the IASC Secretariat (until 31 December each year). IASC supports inclusivity and diversity and therefore particularly encourages nominations which take these values into consideration.

IASC awarded the 2021 IASC Medal to Dr. Atsumu Ohmura for his outstanding achievements in understanding complex climate and glacier relationships, global energy budgets, and thermal energy flow in the Arctic; and for excellence in program building, international collaborations, and mentorship in the cryospheric sciences.

[<https://iasc.info/capacity-building/medal>]

IASC 2022



DEC

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PHOTO: KARI FANNAR / KARI LARUSSON

Héðinsfjörður (in the picture) is located approximately 70 km North from Akureyri, where the IASC Secretariat is hosted (since 2017). Héðinsfjörður was inhabited until 1951, and only accessible by foot or boat until the tunnel between Siglufjörður and Ólafsfjörður was opened in 2010.



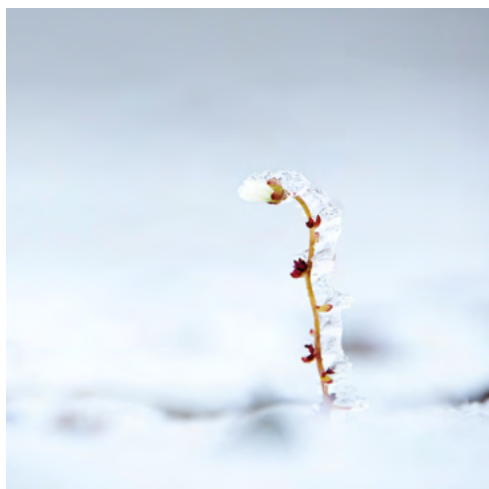
IASC SECRETARIAT

The IASC Secretariat is responsible for the daily operations of IASC. Among its tasks, the Secretariat provides support for the IASC Working Groups, Council, and Executive Committee; is responsible for IASC communications, coordinates with IASC partners; and administers IASC finances. Currently the Secretariat is based in Akureyri, Iceland and is supported by Rannís, the Icelandic Centre for Research, through the end of 2026.

Get in contact with the IASC Secretariat if you have any question regarding IASC or Arctic Science!

[info@iasc.info]

IASC 2022



COVERPHOTO: FABIAN FOPP © 2021 SWISS POLAR INSTITUTE, CC BY 4.0
Winter is falling on October Revolution Island in late August during the Arctic Century Expedition, wrapping a small *Saxifraga cernua* plant with ice and snow.

IASC 2022

THE INTERNATIONAL ARCTIC SCIENCE COMMITTEE (IASC)

The International Arctic Science Committee (IASC) is a non-governmental, international scientific organization. IASC encourages and facilitates cooperation in all aspects of Arctic research, in all countries engaged in Arctic research, and in all areas of the Arctic. IASC promotes and supports leading-edge interdisciplinary research in order to foster a greater scientific understanding of the Arctic and its role in the Earth system.

[iasc.info]

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