# Request for Input

from Organizations with Arctic Research and Education Interests

Japan and Iceland are pleased to be hosting the 3rd Arctic Science Ministerial. To evaluate progress on international collaboration in Arctic science, we are asking for a variety of inputs from Countries, Indigenous Peoples Organizations, and Research/education organizations.

In the Joint Statement from ASM2 parties agreed on a number of important issues needing stronger collaboration. To map the progress since ASM2 the signatory parties, participating Indigenous Peoples and International Science Organizations, are asked to document their major international activities that have contributed to the goals identified from ASM2.

Building on deliverables and discussions from the previous ASMs, Arctic Research and/or Education organizations are asked to provide a tailored summary of their work (formerly the **Arctic Research Overview)**; **updates on project deliverables** (if previously submitted); and **new initiatives** to address requirements for stronger international and interdisciplinary collaboration.

The information submitted in response to this request will show where significant activity has occurred, achievements have been accomplished, and what areas may require additional resources for progress. The information will contribute to the ASM3 discussions and report. The resulting report will be a summary indicating project progress and highlighting opportunities for increased collaboration and support. The report will be provided to ASM3 participants in addition to being accessible on the ASM3 website. The information will also be used as a foundation for a database outlining international Arctic research efforts which will provide a tool for scientists, Indigenous Peoples, regional governments and other stakeholders to monitor progress and identify potential collaborators.

This will streamline the previous process while building on efforts to ensure transparency and open access, in creating a legacy product of Arctic research activities. All information submitted to the ASM3 organizers should be considered as open access, to be freely shared. If specific points are only meant for the Ministerial and not to be shared publicly, indicate clearly when submitting materials.

## Arctic Organization Overviews

As in prior ministerial meetings, we are asking for a short summary from participating entities. For ASM3, a new template has been created for organizations. See Appendix 1 for Guidelines.

## Project Deliverable Updates and New Initiatives

To help better capture the diversity and breadth of international research and education activities in the Arctic, we are asking for updates on projects submitted as deliverables to ASM2, as well as new initiatives proposed to help support the goals and themes of AMS3. Please see Appendix 2 for Guidelines.

To streamline the submission of updates and contribute to a legacy database of project deliverables, each organization will receive an electronic folder with their respective ASM2 submissions. This folder will contain the project deliverable information previously submitted (if any). Information to update will include: selected keywords describing the project; countries involved; size and duration of project; themes addressed in the project; and other 'check-box' type questions to help in the organization and analysis of international collaboration progress moving forward.

For new project deliverables, each organization should determine what projects they would like to put forward as contributions to the goals and themes for ASM3. The ASM3 organizers are not asking for organizations to submit every Arctic research and/or education project, but to select project deliverables that have strong international partnerships, strengthen international research collaboration efforts, or projects where international collaboration opportunities exist and are encouraged. For new project deliverables, a blank form will be included in the folder. Please make copies of this form for each new project deliverable you are submitting.

## International Collaboration and Cooperation

As one goal of the ASM is to enhance international collaboration and cooperation, for ASM3 we are requesting additional information on how international researchers can get involved in your organization's projects, participation in ongoing larger international initiatives, Arctic research priority documents and references, and additional links to more information. The purpose of this section is to get another perspective on international collaboration that can be used directly by scientists and Indigenous Peoples to engage with national/international efforts. Appendix 3 lays out the questions we are asking and the form will be included in your electronic folder.

## Important Dates

May 25 – Requests for information go out to Organizations
June 30 – Information due back to ASM3 Secretariat

# Appendix 1 – Arctic Organization Overviews

## Guidelines for submitting Arctic Organization Overviews to the ASM3

In an effort to help provide an overview of the various (international) organizations with Arctic research and/or educational interests to the Arctic Science Ministerial meeting, we are asking interested parties to submit a short overview of their organization for consideration for publication.

When preparing these overviews, please use the form included in your folder which follows the format below. Please use American English. Once submitted, overviews will go through editorial/grammar review and revisions may be necessary. All information submitted should be considered open access and available for ASM3 related publications as needed.

With this form, please send your logo as a .jpg with 300 dpi resolution. You may also wish to send a photo of an organizational activity to be used if space allows. The photo should have a descriptive file name, short caption (5 to 10 words), photo credit, and have 300 dpi resolution.

| | |
|---|---|
| Name of Organization | |
| Acronym *(if any ☺)* | |
| Year Established *(YYYY)* | |
| Website | |
| General Email Address | |
| Post/Physical Address | |
| Mission Statement<br>*(max 50 words)* | |
| Major Activities<br>*(max 250 words)* | - include regular Meetings/Conferences, working groups, projects, focus on Arctic related activities |
| Upcoming Arctic related activities/new initiatives<br>*(max 100 words)* | |
| Organization Structure<br>*(max 100 words)* | - include membership information, major sources of funding, etc. |
| Main Type/Focus of Organization<br>*(choose all that apply)* | Science<br>Education<br>Stakeholder<br>Business<br>Policy/Governance |
| Does your organization's interest(s) include:<br>*(choose all that apply)* | ☐ Natural sciences<br>☐ Social sciences<br>☐ Arts & Humanities<br>☐ Indigenous knowledge<br>☐ Community-driven research/monitoring<br>☐ Education/Capacity Building Outreach |

# Appendix 2 – Project Deliverables Contributing to the ASM Themes/Goals

## Guidelines for submitting project deliverables, updates and new initiatives for ASM3

In the Joint Statement from ASM2, parties agreed on a number of important issues needing stronger collaboration. To map the progress since ASM2, we ask the signatory parties, participating Indigenous Peoples and International Science Organizations, to document their major international activities that have contributed to the goals identified from ASM2.

The information submitted will show where significant activity has occurred, achievements have been accomplished, and what areas may require additional resources for progress. The information will contribute to the ASM3 discussions and research summary report indicating project progress and highlighting opportunities for increased collaboration and support. The report will be provided to ASM3 participants in addition to being accessible on the ASM3 website. The information will also be used as a foundation for a database outlining international Arctic research efforts which will provide a tool for scientists, Indigenous Peoples, regional governments and other stakeholders to monitor progress and identify potential collaborators.

To help focus and simplify input so it can be more efficiently synthesized, information on previously submitted projects (referred to as deliverables for past ASMs) will be sent back to submitting parties in standardized forms. What is mainly required for updates is to verify information is still current, include a short statement on progress since AMS2, and help to categorize (via check boxes) project efforts. The following is an example of the questions that will be asked.

## Update on Deliverables/Projects Submitted to ASM2

1. Project Title

2. Funding Program(s) and/or Organization(s)

3. Coordinating organization(s)

4. Name of main contact person

5. Contact email address

6. Summary of Project/Project Goal (300 character limit)

7. Description of the deliverable/project (3000 character limit)

8. Website

9. Duration of Deliverable/Project (YYYY to YYYY)

10. Personnel/Staff Involved
    *Note: The purpose of this question is to try to understand the size of the project. In comparing across countries and currencies, the number of people can be more reflective of this than comparing budgets. Please include researchers, technicians, and project managers.*
    - ☐ 1 - 10
    - ☐ 11 - 20
    - ☐ 20 - 50
    - ☐ 50 +
    - ☐ Unknown

11. What is the diversity of project personnel/staff (E.g. gender, career stage, Indigenous representation) (1500 character limit):

12. Stage of Project Development
    - ☐ Proposed
    - ☐ Early Planning
    - ☐ On going
    - ☐ Final Stages
    - ☐ Finished

13. Next steps for the project if in the proposed, early planning, or ongoing stages (1500 character limit).

14. Major progress/development(s) since ASM2 (1500 character limit)
    *Note: For national projects contributing to major international projects such as SAON, MOSAiC, and YOPP, please describe your countries direct contributions/progress*.

15. Are there opportunities for new collaborators to join? If so, please describe them.

16. Collaborating Countries/Governments. *(Choose all that apply)*
    - ☐ Austria
    - ☐ Belgium
    - ☐ Canada
    - ☐ China
    - ☐ Czech Republic
    - ☐ Denmark
    - ☐ Faroe Islands
    - ☐ Finland
    - ☐ France
    - ☐ Germany
    - ☐ Greenland
    - ☐ Iceland
    - ☐ India
    - ☐ Italy
    - ☐ Japan
    - ☐ Netherlands
    - ☐ Norway
    - ☐ Poland
    - ☐ Portugal
    - ☐ Republic of Korea
    - ☐ Russia
    - ☐ Singapore
    - ☐ Spain
    - ☐ Sweden
    - ☐ Switzerland
    - ☐ UK
    - ☐ USA
    - ☐ EU
    - ☐ Other(s) _____

17. Location of Project *(Choose all that apply)*
    - ☐ Global
    - ☐ Polar in General
    - ☐ Arctic in General
    - ☐ Sub-Arctic in General
    - ☐ Alaska in General
    - ☐ Alaskan Arctic
    - ☐ Canadian Arctic in General
    - ☐ Yukon
    - ☐ Northwest Territories
    - ☐ Nunavut
    - ☐ Nunavik
    - ☐ Labrador
    - ☐ Greenland
    - ☐ Iceland in General
    - ☐ Icelandic Arctic
    - ☐ Faroe Islands
    - ☐ Norway in General
    - ☐ Norwegian Arctic
    - ☐ Svalbard
    - ☐ Sweden in General
    - ☐ Swedish Arctic
    - ☐ Finland in General
    - ☐ Finish Arctic
    - ☐ Russian Arctic in General
    - ☐ Eastern Siberia
    - ☐ Western Siberia
    - ☐ Arctic Ocean in General
    - ☐ Central Arctic Ocean
    - ☐ Bering Sea
    - ☐ Chukchi Sea
    - ☐ Beaufort Sea
    - ☐ Hudson Bay
    - ☐ Labrador Sea
    - ☐ Davis Strait
    - ☐ Baffin Bay
    - ☐ Denmark Strait
    - ☐ Norwegian Sea
    - ☐ Greenland Sea
    - ☐ Barents Sea
    - ☐ Kara Sea
    - ☐ Laptev Sea
    - ☐ East Siberian Sea
    - ☐ Sea of Okhotsk
    - ☐ North Pacific Ocean
    - ☐ North Atlantic Ocean
    - ☐ No Geographic Orientation
    - ☐ Other Regions_____

18. Keywords describing the Deliverable/Project *(Choose all that apply)*

- ☐ adaptation
- ☐ art
- ☐ atmosphere
- ☐ atmospheric sciences
- ☐ biodiversity
- ☐ biology
- ☐ capacity building
- ☐ carbon
- ☐ change
- ☐ climate
- ☐ collaboration
- ☐ communication
- ☐ community
- ☐ community driven
- ☐ coordination
- ☐ cryosphere
- ☐ culture
- ☐ data management
- ☐ disease
- ☐ ecology
- ☐ economic development
- ☐ ecosystems
- ☐ education
- ☐ fisheries
- ☐ food security
- ☐ forecasts
- ☐ freshwater
- ☐ geological sciences
- ☐ geophysics
- ☐ geopolitics
- ☐ glaciers
- ☐ global
- ☐ greenhouse gases
- ☐ history
- ☐ human and health Sciences
- ☐ ice Sheets
- ☐ Indigenous Knowledge
- ☐ Indigenous Peoples
- ☐ industry
- ☐ infrastructure
- ☐ instrument development
- ☐ knowledge
- ☐ land
- ☐ languages
- ☐ law
- ☐ mapping
- ☐ marine
- ☐ mitigation
- ☐ modelling
- ☐ monitoring
- ☐ observation
- ☐ outreach
- ☐ oceanography
- ☐ permafrost
- ☐ policy
- ☐ pollution
- ☐ prediction
- ☐ remote sensing/GIS
- ☐ resilience
- ☐ resources
- ☐ satellites
- ☐ sea ice
- ☐ snow
- ☐ social sciences
- ☐ society
- ☐ space physics
- ☐ stakeholders
- ☐ standardize
- ☐ subsistence (activities)
- ☐ sustainability
- ☐ technology
- ☐ tourism
- ☐ vulnerability
- ☐ water security
- ☐ weather
- ☐ well-being
- ☐ wildlife
- ☐ Other: _____

19. Does the project include:

- ☐ Natural sciences
- ☐ Social sciences
- ☐ Arts & Humanities
- ☐ Indigenous knowledge
- ☐ Community-driven research/monitoring
- ☐ Education/Capacity Building
- ☐ Outreach

20. If this Deliverable/Project was submitted for ASM1, which theme does it most closely relate to? *(Choose one)*

- ☐ Identifying Arctic-Science Challenges and Their Regional and Global Implications
- ☐ Strengthening and Integrating Arctic Observations and Data Sharing
- ☐ Applying Expanded Scientific Understanding of the Arctic to Build Regional Resilience and to Shape Global Responses
- ☐ Empowering Citizens through Science Technology, Engineering, and Mathematics (STEM) Education Leveraging Arctic Science
- ☐ Not submitted to ASM1 / Do not know

21. As this Project/Deliverable was submitted as a contribution to support the goals of the ASM2 Joint Statement, which areas does it specifically address? *(Choose up to 3)*

- ☐ Theme 1: Strengthening, Integrating and Sustaining Arctic Observations, Facilitating Access to Arctic Data, and Sharing Arctic Research Infrastructure
  - ☐ Move from design to deployment phase of an integrated Arctic observing system
    - ☐ Sustained Arctic Observing Networks (SAON)
    - ☐ Copernicus
    - ☐ Svalbard Integrated Arctic Earth Observing System (SIOS)
    - ☐ Distributed Biological Observatory (DBO)
    - ☐ Other observing system: _____
  - ☐ Enhance cooperation among space agencies
  - ☐ Cooperate in facilitating international access to Arctic Research Infrastructure
  - ☐ Make Arctic research and monitoring datasets available, discoverable and relevant for communities
  - ☐ Explore new technologies for unmanned observing systems and remote sensing

- ☐ Theme 2: Understanding Regional and Global Dynamics of Arctic Change
  - ☐ Enhance international cooperation
    - ☐ Year of Polar Prediction (YOPP)
    - ☐ Multidisciplinary Drifting Observatory for the Study of Arctic Change (MOSAiC)
    - ☐ Increase predictive capabilities for Arctic weather and climate
    - ☐ Improve confidence in predications for future Arctic changes
  - ☐ Promote voluntary international cooperation
    - ☐ Predicting sea-ice changes
    - ☐ Understanding the impact of changes on freshwater, terrestrial and marine ecosystems
    - ☐ Assessing the stability of permafrost
    - ☐ Better predicting the dynamics of ice sheets, glaciers and ice caps and their ocean connections
    - ☐ Understanding social and economic drivers of Arctic change

- ☐ Theme 3: Assessing Vulnerability and Building Resilience of Arctic Environments and Societies
  - ☐ Enhance multilateral scientific cooperation between Arctic and non-Arctic States, Indigenous Peoples, local communities, and societal and economic stakeholders
    - ☐ Identifying risks and minimizing the impacts of climate and global changes on the Arctic
    - ☐ Developing adaptation and resilience-building strategies
    - ☐ Developing activities that address the sustainability of new Arctic opportunities
  - ☐ Develop and integrate in the Arctic region services making use of climate information
  - ☐ Develop and disseminate best practices for coping with impacts of Arctic change
  - ☐ Develop research and educational programs to support Indigenous languages, cultural and economic practices, sustainable ways of living, and heritage resource preservation

22. In addition to the specific scientific topics mentioned in the ASM2 Joint Statement (identified in the question above), several additional points were agreed to as important. Does this project relate to any of these points identified in the statement? If so, please check the relevant points and include a summary of what was done in the project to address the point(s) in less than 250 words in the space below:
    - ☐ Striving for diversity - also of gender - and inclusiveness in Arctic science, recognizing that cultivating talent and promoting excellence across the social spectrum will lead to better problem solving and innovative solutions to Arctic scientific challenges
    - ☐ Acknowledging that, where appropriate, research in the Arctic has to be carried out - in compliance with national and sovereignties and jurisdictions - respecting the values, interests, priorities, culture and traditions of Arctic Indigenous Peoples and local communities
    - ☐ Including Indigenous Peoples in the assessment and definition of Arctic research priorities
    - ☐ Involving local communities

      Progress made (1500 character limit):

23. Is this Deliverable/Project also being submitted toward the goals of ASM3? If so, which theme[1] does it most closely relate. *(Choose one)*
    - ☐ Theme 1: Observe
      Observing networks, Data sharing – towards implementation
    - ☐ Theme 2: Understand
      Enhance understanding and prediction capability on Arctic environmental and social systems and its global impact.
    - ☐ Theme 3: Respond
      Sustainable development, Evaluation of vulnerability and resiliency, Application of knowledge
    - ☐ Theme 4: Strengthen
      Capacity building, Education, Networking, Resilience – prepare future generations

24. Was this project/deliverable created specifically for / or as direct result of Arctic Science Ministerial Meetings? ☐Yes ☐No

[1] Draft themes as of 10 April. The specific wording of subtitles may change but the overall concepts of Observe, Understand, Respond and Strengthen will remain.

# New Project Deliverables in support of ASM3

Each country/organization should determine what projects should be put forward as contributions to the goals and themes for ASM3. The ASM3 organizers are not asking for countries/organizations to submit every project you have, but to select project deliverables that have strong international partnerships, strengthen international research collaboration efforts, or projects where international collaboration opportunities exist and are encouraged.

To standardize and streamline the information collected, new project deliverables are to be submitted using a standardized form included in your folder. One file per new Project Deliverable. Information requested is listed below.

1. Project Title

2. Funding Program(s) and/or Organization(s)

3. Coordinating organization(s)

4. Name of main contact person

5. Contact email address

6. Summary of Project/Project Goal (300 character limit)

7. Description of the project (3000 character limit)

8. Website

9. Duration of Project (YYYY to YYYY)

10. Personnel/Staff Involved
    *Note: The purpose of this question is to try to understand the size of the project. In comparing across countries and currencies, the number of people can be more reflective of this than comparing budgets. Please include researchers, technicians, and project managers.*
    - ☐ 1 - 10
    - ☐ 11 - 20
    - ☐ 20 - 50
    - ☐ 50 +
    - ☐ Unknown

11. What is the diversity of project personnel/staff (E.g. gender, career stage, Indigenous representation) (1500 character limit):

12. Stage of Project Development
    - ☐ Proposed
    - ☐ Early Planning
    - ☐ On going
    - ☐ Final Stages
    - ☐ Finished

13. Next steps for the project if in the proposed, early planning or ongoing stages (1500 character limit)

14. Are there opportunities for new collaborators to join? If so, please describe them (1500 character limit)

15. Collaborating Countries/Governments *(Choose all that apply)*

- ☐ Austria
- ☐ Belgium
- ☐ Canada
- ☐ China
- ☐ Czech Republic
- ☐ Denmark
- ☐ Faroe Islands
- ☐ Finland
- ☐ France
- ☐ Germany
- ☐ Greenland
- ☐ Iceland
- ☐ India
- ☐ Italy
- ☐ Japan
- ☐ Netherlands
- ☐ Norway
- ☐ Poland
- ☐ Portugal
- ☐ Republic of Korea
- ☐ Russia
- ☐ Singapore
- ☐ Spain
- ☐ Sweden
- ☐ Switzerland
- ☐ UK
- ☐ USA
- ☐ EU
- ☐ Other(s)

16. Location of Project *(Choose all that apply)*

- ☐ Global
- ☐ Polar in General
- ☐ Arctic in General
- ☐ Sub-Arctic in General
- ☐ Alaska in General
- ☐ Alaskan Arctic
- ☐ Canadian Arctic in General
- ☐ Yukon
- ☐ Northwest Territories
- ☐ Nunavut
- ☐ Nunavik
- ☐ Labrador
- ☐ Greenland
- ☐ Iceland in General
- ☐ Icelandic Arctic
- ☐ Faroe Islands
- ☐ Norway in General
- ☐ Norwegian Arctic
- ☐ Svalbard
- ☐ Sweden in General
- ☐ Swedish Arctic
- ☐ Finland in General
- ☐ Finish Arctic
- ☐ Russian Arctic in General
- ☐ Eastern Siberia
- ☐ Western Siberia
- ☐ Arctic Ocean in General
- ☐ Central Arctic Ocean
- ☐ Bering Sea
- ☐ Chukchi Sea
- ☐ Beaufort Sea
- ☐ Hudson Bay
- ☐ Labrador Sea
- ☐ Davis Strait
- ☐ Baffin Bay
- ☐ Denmark Strait
- ☐ Norwegian Sea
- ☐ Greenland Sea
- ☐ Barents Sea
- ☐ Kara Sea
- ☐ Laptev Sea
- ☐ East Siberian Sea
- ☐ Sea of Okhotsk
- ☐ North Pacific Ocean
- ☐ North Atlantic Ocean
- ☐ No Geographic Orientation
- ☐ Other Regions_____

17. Keywords describing the Deliverable/Project *(Choose all that apply)*

- ☐ adaptation
- ☐ art
- ☐ atmosphere
- ☐ atmospheric sciences
- ☐ biodiversity
- ☐ biology
- ☐ capacity building
- ☐ carbon
- ☐ change
- ☐ climate
- ☐ collaboration
- ☐ communication
- ☐ community
- ☐ community driven
- ☐ coordination
- ☐ cryosphere
- ☐ culture
- ☐ data management
- ☐ disease
- ☐ ecology
- ☐ economic development
- ☐ ecosystems
- ☐ education
- ☐ fisheries
- ☐ food security
- ☐ forecasts
- ☐ freshwater
- ☐ geological sciences
- ☐ geophysics
- ☐ geopolitics
- ☐ glaciers
- ☐ global
- ☐ greenhouse gases
- ☐ history
- ☐ human and health sciences
- ☐ humanities and arts
- ☐ ice Sheets
- ☐ Indigenous Knowledge
- ☐ Indigenous Peoples
- ☐ industry
- ☐ infrastructure
- ☐ instrument development
- ☐ knowledge
- ☐ land
- ☐ languages
- ☐ law
- ☐ mapping
- ☐ marine
- ☐ mitigation
- ☐ modelling
- ☐ monitoring
- ☐ observation
- ☐ oceanography
- ☐ outreach
- ☐ permafrost
- ☐ policy
- ☐ pollution
- ☐ prediction
- ☐ remote sensing/GIS
- ☐ resilience
- ☐ resources
- ☐ satellites
- ☐ sea ice
- ☐ snow
- ☐ social sciences
- ☐ society
- ☐ space physics
- ☐ stakeholders
- ☐ standardize
- ☐ subsistence (activities)
- ☐ sustainability
- ☐ technology
- ☐ tourism
- ☐ vulnerability
- ☐ water security
- ☐ weather
- ☐ well-being
- ☐ wildlife
- ☐ Other: _____

18. Does the project include *(Choose all that apply)*:
    - ☐ Natural sciences
    - ☐ Social sciences
    - ☐ Arts & Humanities
    - ☐ Indigenous Knowledge
    - ☐ Community-driven research/monitoring
    - ☐ Education/Capacity Building
    - ☐ Outreach

19. Which ASM3 theme[2] does this deliverable/project most closely relate. *(Choose one)*
    - ☐ Theme 1: Observe
      Observing networks, Data sharing – towards implementation
    - ☐ Theme 2: Understand
      Enhance understanding and prediction capability on Arctic environmental and social systems and its global impact.
    - ☐ Theme 3: Respond
      Sustainable development, Evaluation of vulnerability and resiliency, Application of knowledge
    - ☐ Theme 4: Strengthen
      Capacity building, Education, Networking, Resilience – prepare future generations

20. Was this deliverable/project created specifically for / or as direct result of Arctic Science Ministerial Meetings?
    - ☐ Yes
    - ☐ No

[2] Draft themes as of 10 April. The specific wording of subtitles may change but the overall concepts of Observe, Understand, Respond and Strengthen will remain.

# Appendix 3 – International Collaboration and Cooperation

As one goal of the ASM3 is to increase opportunities for cooperation, coordination, and collaboration in international Arctic research, we ask for information that can assist researchers from other countries, international organizations, Indigenous Peoples and community members in getting involved with your projects. The information collected (outlined here in Appendix 3) will inform the Joint Statement signed by Ministers and be made available to the international research community through the ASM3 final report. **As we seek key points from these questions, short answers and bullet points are encouraged.** Please use the form in your electronic folder to supply this information.

1. Does your country/organization provide specific opportunities for international collaborators to participate in activities? If so, briefly describe how (less than 500 words).
   *E.g.: Does your country/organization provide international fellowships? Are there berths on research ships for international participants? Does your country/organization have joint funding/exchange programs with various countries/organizations? Are there specific links or resources for international participants to learn more about opportunities within your country/organization?*

2. Does your country/organization provide specific opportunities or support for Indigenous Peoples and/or community involvement in Arctic research activities? If so, briefly describe how (less than 500 words).

3. In what area(s) of research would your country/organization like to see greater international collaboration occurring?

4. What does your country/organization think are the barriers to international collaboration? Do you have any suggestions on how those barriers could be lowered or removed?

5. The ASM2 Joint Statement also encouraged the involvement and participation in several international efforts dealing with Arctic science. Does your country/organization contribute to any of the following initiatives? *(Choose all that apply)*
   - ☐ Agreement on Enhancing International Arctic Scientific Cooperation by the Arctic States (Arctic Council)
   - ☐ Joint Program of Scientific Research and Monitoring of the Central Arctic Ocean (Agreement to Prevent Unregulated High Seas Fisheries in the Arctic Ocean)
   - ☐ 2030 Agenda for Sustainable Development
   - ☐ The Paris Agreement
   - ☐ Other: _____

6. A goal of ASM3 is to develop concrete actions from our discussions. To facilitate this process, please indicate what the most important outcomes your country/organization would like to result from each of the ASM3 Themes[3] (limit 50 words per theme):
   - Theme 1: Observe
     Observing networks, Data sharing – towards implementation
     *E.g. With the help of the Arctic Funders Forum, develop a mechanism to co-mingle funds internationally in support of coordinated observing*
     _____

[3] Draft themes as of 10 April. The specific wording of subtitles may change but the overall concepts of Observe, Understand, Respond and Strengthen will remain.

- Theme 2: Understand
  Enhance understanding and prediction capability on Arctic environmental and social systems and its global impact.

  _____

- Theme 3: Respond
  Sustainable development, Evaluation of vulnerability and resiliency, Application of knowledge

  _____

- Theme 4: Strengthen
  Capacity building, Education, Networking, Resilience – prepare future generations

  _____

7. Does your country/organization participate in ongoing international projects/activities such as Sustaining Arctic Observing Networks (SAON), Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC), Svalbard Integrated Arctic Earth Observing System (SIOS), Pacific Action Group (PAG), Distributed Biological Observatory (DBO), etc.? If so, please list which ones and a short description on your involvement in each (less than 20 words each)
   *E.g. The SAON Secretariat is financially supported by Norway through a grant from the Ministry of Climate and Environment.*

8. Would your country/organization be interested in supporting the coordination/administration of international Arctic research and education efforts such as SAON, Polar Educators International, APECS, IASC, an ASM Secretariat, Arctic Funders Forum, IASSA, UArctic, etc.[4]? If so, who would be the contact agency and/or person?

9. Does your country/organization have formally established Arctic science or research priorities? Arctic science or research strategy documents? Guidelines, diversity requirements, principles or codes of conduct for researchers? If so, please provide the references and links to the documents.

10. The Forum of Arctic Science Funders is a multi-lateral discussion platform to initiate new and enhanced collaborative scientific activities in the Arctic. This Forum is a direct result of the Arctic Science Ministerial. Does your country/organization participate in the Forum of Arctic Science Funders? If so, please describe what you see is the utility of the Funders Forum to the Arctic Science Ministerial going forward.

11. Please list any additional resources/links providing an overview of Arctic research/education in your country/organization.

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[4] Sustaining Arctic Observing Networks (SAON): https://www.arcticobserving.org
Polar Educators International (PEI): https://polareducator.org
Association of Polar Early Career Scientists (APECS): https://www.apecs.is
International Arctic Science Committee (IASC): https://iasc.info
Arctic Science Ministerial (ASM) Secretariat: http://asm3.org
Arctic Funders Forum
International Arctic Social Sciences Association (IASSA): https://iassa.org
University of the Arctic (UArctic): https://www.uarctic.org