



INTAROS

WP7 - Dissemination and Outreach

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Main Achievements:

Task 7.1 Plan and support dissemination activities.

- D7.1 Project Website, social media accounts and branding materials
- D7.2 Print materials (brochures, pamphlets, etc.)

Task 7.2 Informing decision-makers in European agencies and businesses & 7.3 Informing Arctic and international bodies

- D7.4/7.8 Dissemination material for use towards decision makers, stakeholders, business and general public.
- D7.15 Final Summary for policymakers: Report summarizing outcomes of final event, project results and recommendations aimed at policymakers.

Task 7.4 Interdisciplinary science dissemination

- D7.6 Contribution to OceanObs 2019.
- D7.10 Special issue in Ocean Science journal (EGU).

Task 7.5 Capacity building for early-career scientists.

- D7.11 Scientific Capacity Building achievements: various courses and summer schools.
- D7.12. Educational packages for early career scientists and students.
- D7.17 Info Sheets and Booklet presenting a summary of the results in the project in a condensed format.

Task 7.6 Capacity building for high-school and general public

- D. 7.9. Educational materials for teachers and students of lower and upper secondary schools.
- D7.13 Special Issue of Environmental Research Letters entitled "Trans-disciplinary aspects of researching Arctic change: science communication, outreach and education, integration, monitoring, modelling and risk perception."

Task 7.7 Capacity building for local communities and civil society organizations.

- D7. 14 Proceedings of experience-exchange workshops on community-based observing in the Arctic.

Expected Impact - for the WP as a whole



- to be recognized as a strong and reliable actor in the field of Arctic research and observing.
 - INTAROS's strong participation in heterogeneous key events and activities is a testament to its impact among the scientific community but also in the wider Arctic community.
 - **Science** - contributions to conferences such as EGU, AGU, and ASSW, as well as other less frequent scientific events such as OceanObs19; special issues of peer-reviewed journals, and many publications.
 - **Governance** - Arctic Ministerial letter to ministers, contributing to AOS joint statement, contributing to COP meetings and their side events, and ongoing participation in SAON and other influential Arctic organisations.
 - **Youth** - through a series of learning tools and materials targeted towards non-experts (high school and general public) as well as emerging experts (graduates and post-graduates). Incentives for participation in conferences (grants and prizes).
 - **Communities** - empowered with training, connections and tools to support ongoing CBM beyond the lifetime of the INTAROS project. Native communities were exposed to scientific results presented in layman terms in community events (e.g. BARC Science Fair, Utqiagvik (Barrow) Alaska 1-3 August 2018, and 1-3 August 2019 Presentation of science results of INTAROS (c. 300 participants))

Challenges

- **Standing out** - Arctic community is a very vast and rich one, with many actors and stakeholders and many projects and organisations. In such a landscape, it is difficult to stand out and gain recognition and prestige. The longevity of the project allowed us to overcome this challenge to a good degree, as INTAROS was an entity that was active long enough to establish itself as a strong and serious entity in Arctic observing. The early and consistent use of the project branding helped to establish the project and its team as a recognizable and reliable member of the Arctic community. Leveraged the reputation of others by collaborating with other initiatives for events and publications.
- **Non-scientific stakeholders** - In such a vibrant community, decision-making and commercial actors can be over-targeted and less likely to engage with scientific projects. INTAROS leveraged its expertise in working on multiple levels to reach these actors. INTAROS had strong impacts on a local level, for example, engaging with cruise ship operators in Svalbard and collaborating with them in data collection and environmental monitoring. For higher level engagement, INTAROS worked with other projects and organisations to produce mutual, high impact recommendations to more powerful decision makers and policy makers.

Challenges

- **Integration of different field of expertise.** - The breath of the INTAROS project makes it unique, but adds to the challenges of providing an integrated summary of the project's results. The organization of the Special issue on EGU journals was particularly challenging given the different journals are targeted for submission by different partners. We managed this issue by using Ocean Sciences as a main journal, and linking papers published in other EGU journals to the OS Special issue; we will also write an overview of all the published papers across all the journals at the end of the project.
- **Hard to track consortium activities** - Within the consortium, given that the consortium was so proactive and engaged, it was difficult to track all of the activities that were carried out by all partners .
- **COVID-19** - Dissemination and outreach relies on taking part in events, conferences, meetings and other in-person activities, for the project to maintain a presence in the community. This challenge was overcome, as far as possible, by participation in and organization of online events, e.g. UN Ocean Decade workshop in collaboration with other Arctic projects. There are also plans to continue to promote and disseminate INTAROS and its results following the close of the project, e.g. through a special session at ASSW 2022.

Recommendations

- Continued support for networks of Arctic projects, with sufficient funding for communication and dissemination.
- Continued support for community engagement and citizen science.
- Greater efforts towards engagement with non-scientific audiences on the micro- rather than macro-scale for long term impacts.
- Continue supporting interdisciplinary projects, and the development of better integration across different fields. Tackle a science question by integrating different field is a key to understanding the complex arctic systems
- (Investment in a long-term Arctic educational hub, could also be suggested for governance to build relationships).
- Anything else?



INTAROS

Thanks

OUTREACH SPECIAL ISSUE (ERL)

- *ERL webpage active!*
- 3 accepted manuscripts, 2 under review
- Guest editors (from several EU projects)

https://iopscience.iop.org/journal/1748-9326/page/Focus_on_Arctic_Change_Transdisciplinary_Research_and_Communication

Letters

[Mapping environmental suitability for anthrax reemergence in the Arctic](#)

Elisa Stella *et al* 2021 *Environ. Res. Lett.* **16** 105013

[+ Open abstract](#) [View article](#) [PDF](#)

[Arctic rain on snow events: bridging observations to understand environmental and livelihood impacts](#)

Mark C Serreze *et al* 2021 *Environ. Res. Lett.* **16** 105009

[+ Open abstract](#) [View article](#) [PDF](#)

[Co-production of knowledge reveals loss of Indigenous hunting opportunities in the face of accelerating Arctic climate change](#)

Donna D W Hauser *et al* 2021 *Environ. Res. Lett.* **16** 095003

[+ Open abstract](#) [View article](#) [PDF](#)

ENVIRONMENTAL RESEARCH LETTERS



Guest Editors

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EGU JOURNALS SPECIAL ISSUE

- Six manuscripts so far (four accepted, two in revision)
- More manuscripts (16 additional listed) will be submitted over the next few months (Please notify Dona and Ruth when you submit a manuscript and update the status on the google doc) <https://docs.google.com/spreadsheets/d/1SuKBIRWZLbuPkxb1pv-IZosO6LQeJaZu/edit#gid=839044883>

STATUS	Authors and topic of paper	EGU Journal
Accepted 11 August 2021. Preprint: https://doi.org/10.5194/essd-2021-54	Florent Domine et al. Meteorological, snow and soil data (2013-2019) from a herb tundra site at Bylot Island, Canadian high Arctic, for driving and testing snow and land surface models	ESSD
Major revision 11 January 2022	Jessica Plein, Rulon Clark, Kyle Arndt, Walter Oechel, Douglas Stow, Donatella Zona,	Biogeosciences
Minor revision 1/11/2021	C. B. Ludwigsen, O. B. Andersen, S. K. Rose: Components of the 1995-2015 Arctic	Ocean Science
Accepted 22 December 2021	Pallandt, M; Goeckede, M, et al.: Representativeness assessment of the pan-Arctic	Biogeosciences
Accepted 2021-09-20	Kenneth D. Mankoff, Xavier Fettweis, Peter L. Langen, Martin Stendel, Kristian K. Kjledse	ESSD
Accept. 15. 02.2021, in press	Barents Sea using indicators. How, when and where?	ICES Journal of Marine Science