

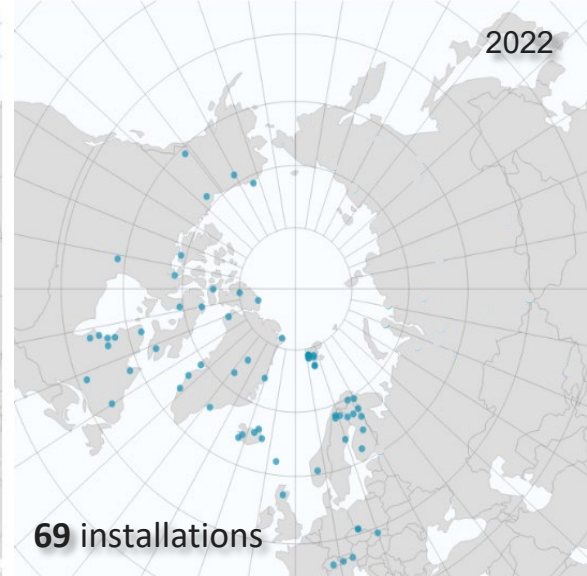
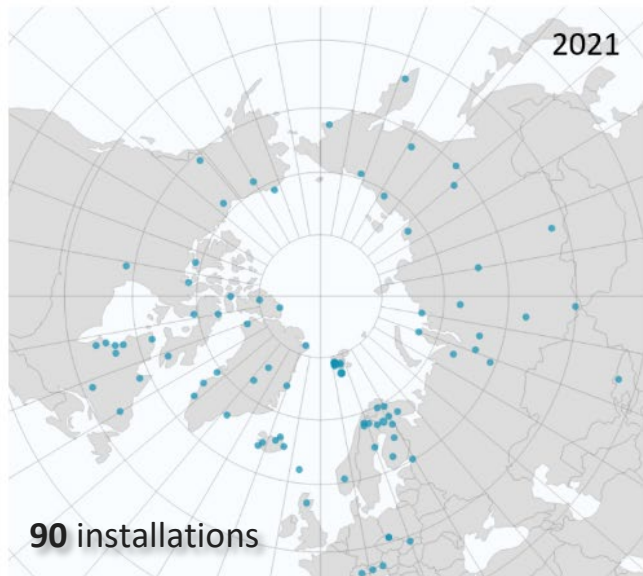


INTERACT

The International Network for Terrestrial Research and Monitoring in the Arctic

Hannele Savela
University of Oulu, Finland

From Scannet to INTERACT III



INTERACT III in a nutshell



EU-H2020 Infrastructures (GA 871120, 10 M€, 2020-2023)

Building capacity for monitoring, research and education throughout the Arctic and beyond

Transnational Access: support for world-class science

Station Managers' Forum: sharing best practices

International Networking: collaboration to build capacity

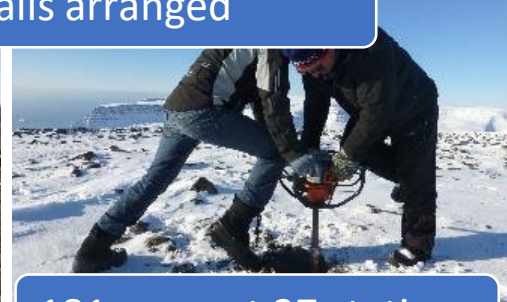
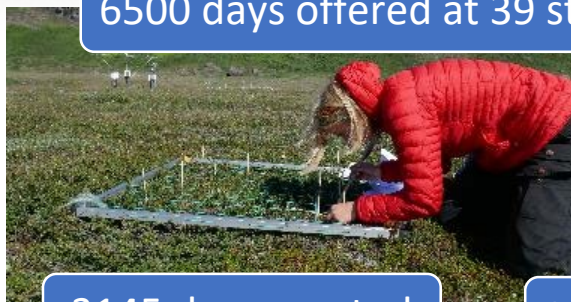
Joint Research Activities: extreme weather events, transport and communication, open data, improving education and awareness, documenting and reducing pollution, benefits and impacts of Arctic tourism

Outreach: sharing information and experiences

INTERACT 3 Transnational Access

6500 days offered at 39 stations

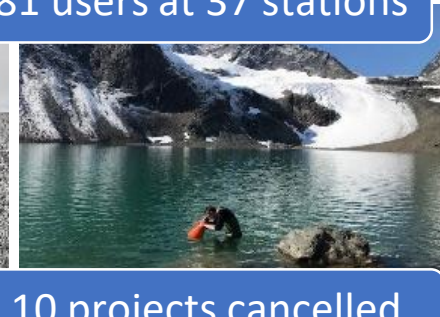
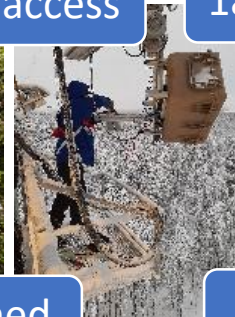
4 calls arranged



3145 days granted

99 user groups granted access

181 users at 37 stations



78 projects conducted

11 projects postponed

10 projects cancelled



Photos: Charlotte Sigsgaard, INTERACT Stations

11 Years of Access Provision

From one to three **access modalities**

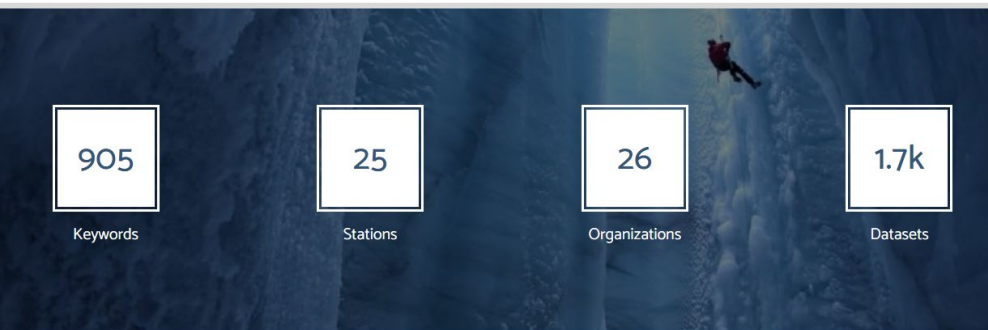
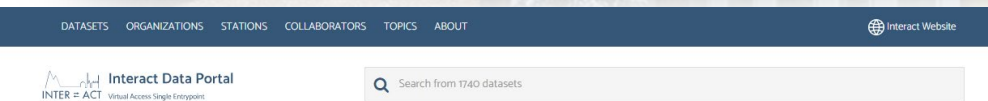
Transnational Access, Remote Access, Virtual Access

From 20 to 52 (39) **research stations**

Applied: 1041 user groups and 48 500 person-days

Supported: **528 user groups and 15 500 person-days**

Virtual Access – INTERACT Data Portal



Recent Datasets

EXPLORE DATASETS

- Point measurements of winter mass balance of Fr...**
0 recent views on 28-11-2022
Station: Sonnblick Observatory
- Point measurements of annual mass balance of Fr...**
0 recent views on 28-11-2022
Station: Sonnblick Observatory
- Mass balance of Freya Glacier, Greenland, in 20...**
0 recent views on 28-11-2022
Station: Sonnblick Observatory
- Mass balance on elevation zones of Freya Glacie...**
0 recent views on 28-11-2022
- Point measurements of winter mass balance of Fr...**
0 recent views on 28-11-2022
- Point measurements of annual mass balance of Fr...**
0 recent views on 28-11-2022

<https://dataportal.eu-interact.org/>

Making data openly and freely available

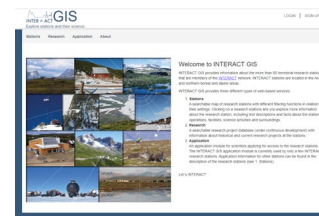
26 VA providers in INTERACT III

4500 VA Users from 136 countries in 2022

Promotion to expand the user base.
Working towards improved interoperability and user experience.

Networking and Research

- Working towards **standardised approaches to station management and best practices** (Management planning, Risk management and safety issues, Reducing climate and environmental impacts, Science and international cooperation, etc.)
- Improving **scientists' access** (Fieldwork Planning Handbook and Practical Field Guide, Thematic guidebooks, Online tool to filter for relevant research stations, Overview of arctic permit systems)
- Providing robust **data for decision making** (e.g. improving forecasts on extreme weather events)



interact-gis.org/

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Research -working together

Working with the industry: AI applications in the Arctic

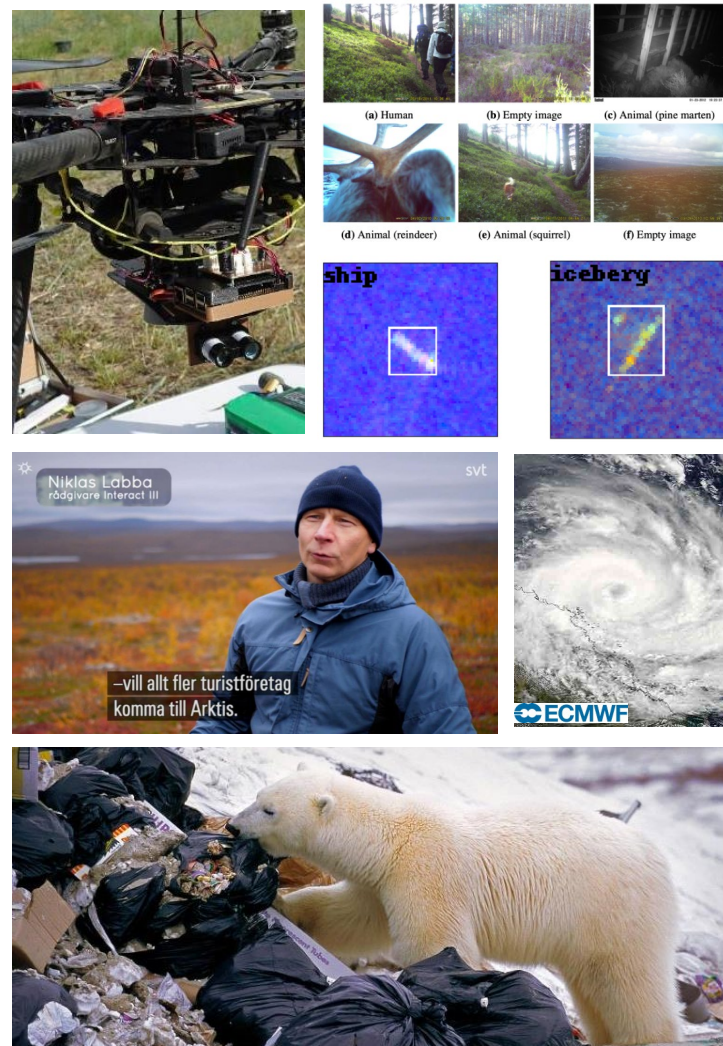
Machine learning to automatically classify images, Deep learning for iceberg detection using SAR (Synthetic Aperture Radar), Log-books: Automated digitization and summarization

Working with Arctic Council's working groups

Documenting and reducing pollution with AMAP (Arctic Monitoring and Assessment Programme)

Working with Indigenous People

Increasing benefits and reducing impacts from developing Arctic tourism



Education, awareness and outreach

INTERACT
Stories of Arctic Science II

41 stories

100 pages

UCL, University of Cambridge, University of Edinburgh, University of Exeter, University of Glasgow, University of Leeds, University of Liverpool, University of Manchester, University of Oxford, University of Sheffield, University of Southampton, University of York

Bringing exciting Arctic Science to your homes and work places
Open or scroll the pages of INTERACT Stories of Arctic Science II and explore the Arctic with the experts

Study online at home and on a pdf file: <https://www.interact.org.uk>
www.interact.org.uk



INTERACT Stories of Arctic Science II
edited by G. Collinson, R. Smith and M. Stammers

All stories are beautifully illustrated with simple accessible language. The book brings science to many audiences including education at all levels, the general public and decision makers.

Bring the stories to your laptop, iPad and smartphones
Access a wealth of additional information for all, from the young to the old

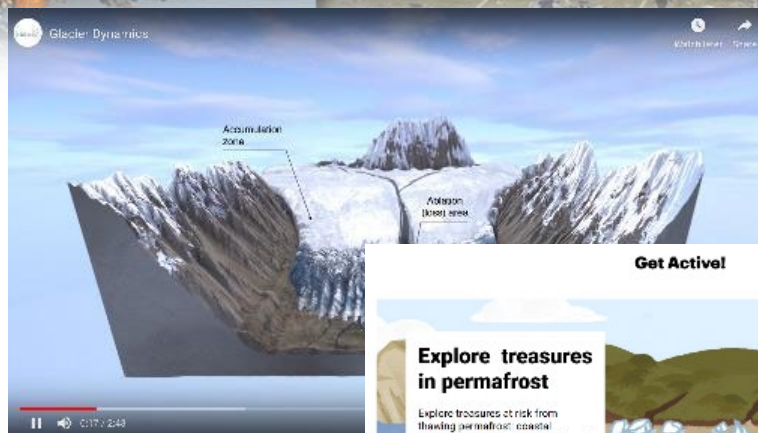


INTERACT e-books available on iPhone, iPad and web browsers

Each story has additional resources for education and those thirsting for knowledge

- Resources include:
 - Additional facts
 - Experiments and activities for young school children
 - Video from the Arctic
 - Computer graphics simulation of environmental processes

Study online at home and on a pdf file: <https://www.interact.org.uk>
www.interact.org.uk or scan the QR code



Get Active!

Explore treasures in permafrost

Explore treasures at risk from thawing permafrost: coastal permafrost thaw is particularly fast because of swimming and loss of sea ice that protects the coast from storms and waves.

Click a tool



Learn more about the research stations....



Johnsson@... x HINSE ALPINE RESEARCH CENTRE - x +

https://www.interact.org/field-sites/hinse-alpine-research-centre/

80%

HINSE ALPINE RESEARCH CENTRE

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INTERACT
International Network for Terrestrial Research Stations in the Cold North

Station Catalogue
2020

INTER=ACT
International Network for Terrestrial Research Stations in the Cold North

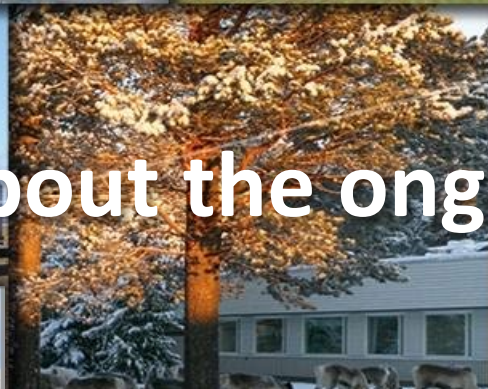
www.eu-int

GREENLAND
Arctic Station

Opening year	1906
Northern latitude	69°15'
Altitude of station	20 m a.s.l.
Distance to settlement	1 km
Annual temperature	-3.2
Annual precipitation	433 mm
Max number of visitors	25
Area under roof	
Disciplines studied	

25/

.....and about the ongoing research!



https://interact-gis.org 67%

INTERACT GIS

Stations Research Publications Application About

Welcome to INTERACT GIS

INTERACT GIS provides information regarding approximately 95 terrestrial field-stations situated under arctic or sub-arctic conditions, whether in the Arctic proper or at high altitudes elsewhere in the northern hemisphere. INTERACT GIS basically provides two different types of web-based services, whereof one is openly providing information regarding stations and their associated landscape characteristics. Via the filtering functionalities offered by INTERACT GIS, a search for stations that fulfil multiple research, educational, and/or monitoring criteria is enabled. In addition, the sheer fun of examining Arctic field-stations is provided.

The second type of web-based service offered by INTERACT GIS requires an account that may be acquired under the above SIGN UP symbol. As an active arctic field-station, INTERACT GIS may be used for automated management of station content, activities, and publications. An accumulating record of station activities is thereby captured, stored, and disseminated at real-time pace, providing decision support for collective planning of Arctic research, education, and/or monitoring activities.

With INTERACT GIS offering truly spatial on-line capabilities, we combine geo-referenced station information with streambed map-services. It is per definition a web-based Geographic Information System. As an example, the collective record of research publications stored and disseminated with INTERACT GIS is geo-referenced via station activities onto visualisations that utilise streambed map-services.

INTERACT GIS is offered to field-stations affiliated with the INTERACT and SITES infrastructures, and all usage may be filtered with respect to organisational affiliation; please explore the above Organizations menu for accessing the filtering functionalities.

As part of its basic functionality, INTERACT GIS captures and processes personal data that fall within the framework of EU's General Data Protection Regulation (GDPR); please explore the above GDPR menu for further information.

INTERACT GIS is the intellectual property of the Swedish University of Agricultural Sciences SLU; please explore the above Copyright menu for reference information.

Arctic Research

— Report From INTERACT Field sites —

BLADDER FROM THE FIELDS BLOG/IT MANAGEMENT TEAM ABOUT INTERACT BLOGGERS ARCHIVED BLOGS

Trees and shrubs at the northern treeline

In spring, there is a lot of activity in the tundra. The vegetation is starting to grow and the weather is getting warmer. It is a good time to visit the field sites and collect samples. The weather is getting warmer and the vegetation is starting to grow. It is a good time to visit the field sites and collect samples.

All good things must come to an end...

It is time to say goodbye to the field sites. The weather is getting colder and the vegetation is starting to die. It is a sad time to say goodbye to the field sites. The weather is getting colder and the vegetation is starting to die. It is a sad time to say goodbye to the field sites.

Beaches, bugs and plastic...

The beaches are getting cleaner. The bugs are starting to appear. The plastic is starting to disappear. It is a good sign that the environment is getting better. The beaches are getting cleaner. The bugs are starting to appear. The plastic is starting to disappear. It is a good sign that the environment is getting better.

Thank you for your attention!



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