

INTERACT

Research stations as science hotspots in Arctic observing systems
H2020 funded 2020-2023



Learn more here:



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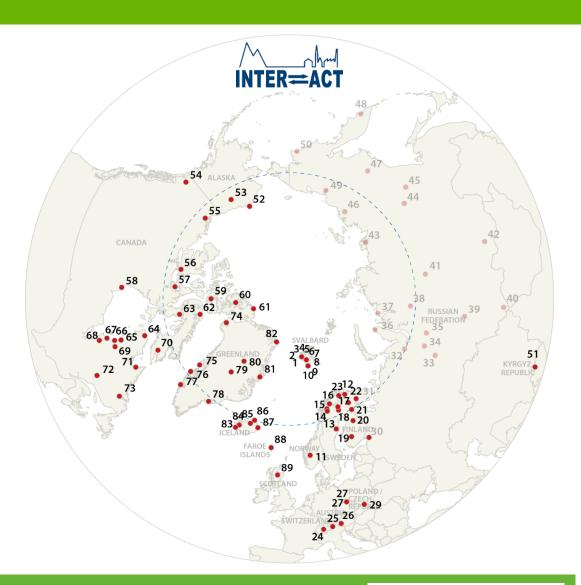












INTERACT

International Network for Terrestrial Research and Monitoring in the Arctic 2011-2023

Currently 68 member stations
+
21 Russian stations on pause















Complex station operations



- Calls for sharing of information and identification of good practices

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Permits	Sustainak	waste managem		Science diplomacy		Conflict mitigation	Local commnunity cooperation/involvement		
Service provisions		Guideline development	First aid	Import/ Export	Staff recruitment		Reporting	Accounting	
Impact monitoring	Instrumentation	Risk man		Laboratories Visitor handling		Data manager			
Transport	Marketing a	and outreach	Sustainability	Sustainability Admir		Quality Water supply assurance and disposal			
Training	Media		accommodation, food, cleaning, etc.		Education	Science coordinator		Workshops and tools	
Construction and maintenance		Management Board	Funding		Emission reductions	Chemical storage	Etc., etc., etc.		

Improve services offered to the scientific community

Bring station managers together to work towards standardised approaches to station management

- Management planning
- Risk management and safety
- Reducing climate and environmental impacts
- Science and international cooperation
- Etc.

























Tools and guidebooks for scientists

Improving scientist preparedness

- Fieldwork planning handbook and Practical field guide
- Thematic guidebooks











Station selection tool – INTERACT GIS

- Online tool to search for research stations complying with science aims



Overview of arctic permit systems

- In support of Arctic Council's Science Cooperation Agreement

















INTERACT stations

as multidisciplinary science hotspots

Hosting scientists from a variety of disciplines

Allowing for interdisciplinary comparisons





























































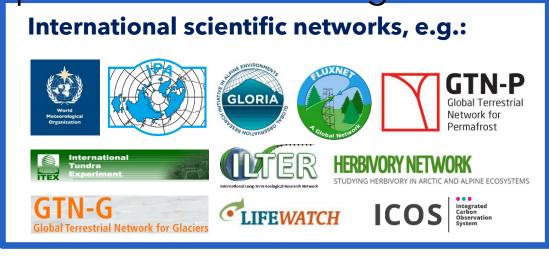


Standardisation

Recommended minimum monitoring programme

Established best practices methodologies





















Providing access

Transnational Access

- Physical access to research stations

Remote Access

- Station staff collect samples/data

Virtual Access - via INTERACT Data Portal

- Free and open access to data sets















Joint Research Activities





* INTERACT III activity

Science methodology development WPs	What				
Climate feedback mechanisms	- INTERACT/ICOS energy flux towers				
Harmonising biodiversity monitoring (CBMP)	- Implementing CBMP monitoring plans at stations				
Extreme events and impacts monitoring (CBMP)*	- Integrate extreme events into CBMP plans/at stations				
Rapid response to environmental alerts	- Coordinated sampling across stations to address urgent data need				
Documenting and reducing pollution (AMAP)*	Deploy passive samplers for emerging pollutantsTest implement plastic monitoriong programme				
Drone technologies for scaling up	- Drone technology, censors and censor needs				
Virtual instrumentation	- Automatic data capture and transfer (e.g. flowering from photos)				
Artificial intelligence*	- Using AI on station data sets (e.g. foto trap, old handwritten records)				
Data management standardisation Education and aware	ness at all societal levels Interacting with stakeholders				

Data management standardisation Making data widely available* Education and awareness at all societal levels Communication and navigation*

Interacting with stakeholders
Adapting to environmental change
Increasing benefits and reducing impacts of tourism*







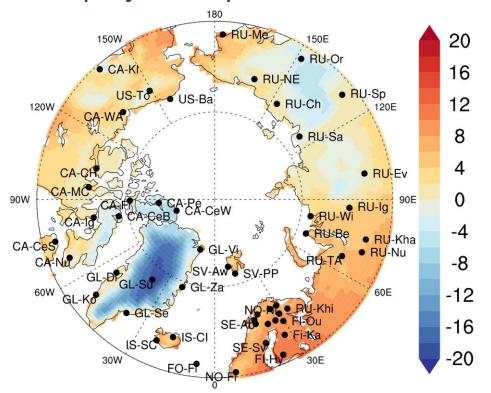


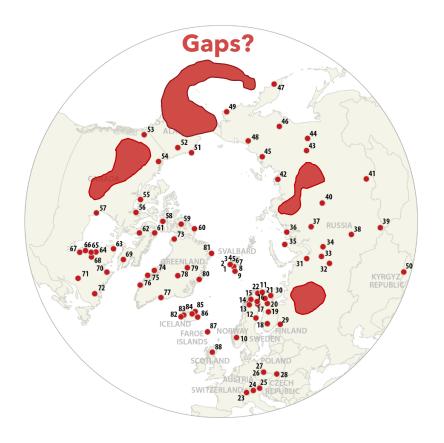




How well does the network of **INTERACT** stations reflect expected changes across the entire Arctic?

IPCC temperature projection year 2100









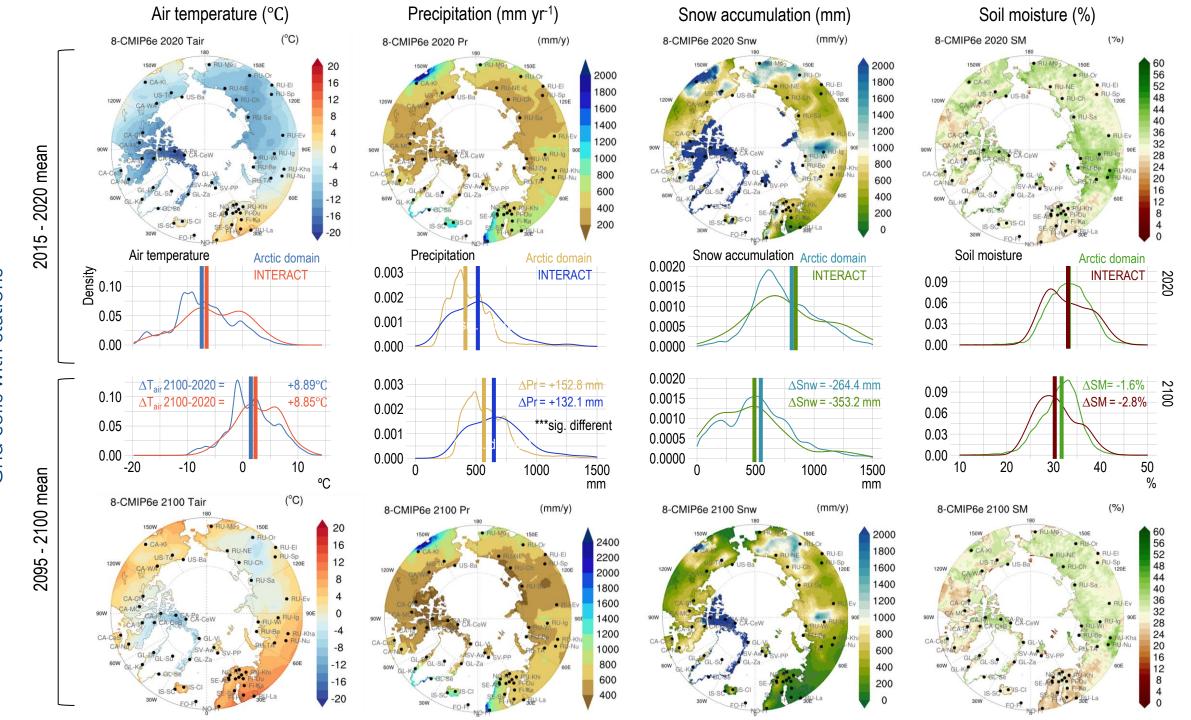








stations cells with







Funding terminates

INTERACT

Non-Profit Association

- Formed 2021
- Station member organisation
- Legal entity

Can join applications







Let's INTERACT

Learn more here:



