

INTERACT - Building capacity for monitoring and research throughout the Arctic: an EU Success Story



33 partners in 19 countries 2010 +22 Observer Stations by 2013 >50 terrestrial research stations

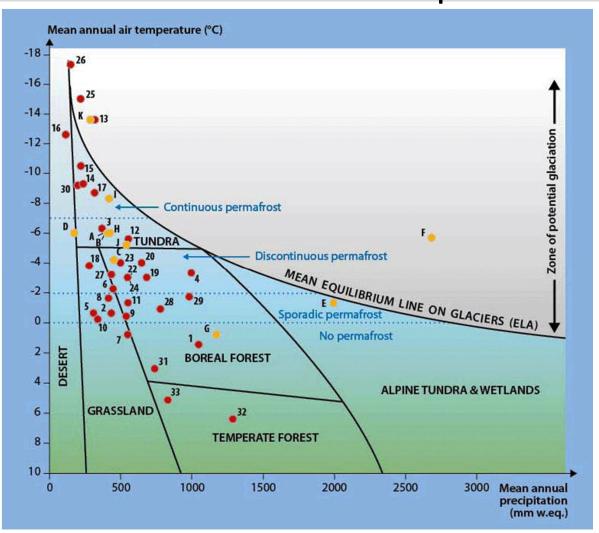
- Biodiversity
- Glaciology
- Permafrost
- Climate
- Hydrology
- Ecology
- Biogeochemistry
- Human dimension
- Etc.



Transnational Access
Station Managers' Forum
Joint Research Activities
Outreach

Interact vision

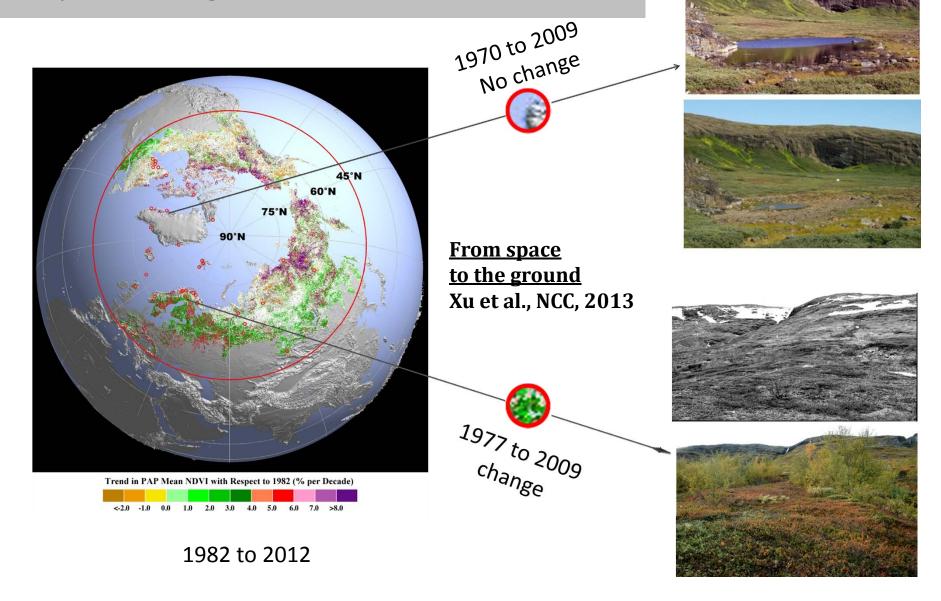
a) Stategically sampling the northern environmental envelope



INTERACT Stations

- 1 Finse Alpine Research Center
- 2 Bioforsk Svanhovd Research Station
- 3 Sverdrup Station, Ny-Ålesund
- 4 Tarfala Research Station
- 5 Abisko Scientific Reseach Station
- 6 Kilpisjärvi Biological Station
- 7 Kolari Research Unit
- 8 Kevo Subarctic Research Station
- 9 Oulanka Research Station
- 10 Khibiny Educational and Scientific Station
- 11 Mukhrino Field Station
- 12 Numto Park Station
- 13 Samoylov Research Station
- 14 Spasskaya Pad Scientific Forest Station
- 15 Chokurdakh Scientific Tundra Station
- 16 Barrow Arctic Research Center/ Barrow Environmental Observatory
- 17 Toolik Field Station
- 18 Kluane Lake Research Station
- 19 CEN Radisson Station
- 20 CEN Whapmagoostui-Kuujjuarapik Station
- 21 CEN Clearwater Lake Station
- 22 CEN Umiujaq Research Station
- 23 CEN Boniface River Station
- 24 CEN Salluit Research Station
- 25 CEN Bylot Island Field Station
- 26 CEN Ward Hunt Island Station
- 27 Arctic Station
- 28 Greenland Institute of Natural Resources
- 29 Sermilik Research Station
- 30 Zackenberg Research Station
- 31 Litla Skard
- 32 Faroe Islands Nature Investigation (FINI)
- 33 Cairngorm

b) Strategically sampling environmental and ecosystem change



About INTERACT

INTERACT stations host thousands of researchers from world-wide



They participate in all major Arctic terrestrial initiatives e.g. IASC, ISAC, SAON, CBMP, AMAP, IPA/CALM, ITEXGEO, UArctic, global initiatives such as GEO and relevant EU ESFRI projects like LifeWatch, ICOS and SIOS



















INTERACT services for the Arctic where observing capacity is low include:

INTERACT partners' multi-disciplinary monitoring

activities have been on-going for up to 100 years

Ground validation of remote sensing

Model testing on the ground

Hosting standardised experiments

Hosting observation and sampling networks

Sampling and inventoring

Building capacity for education

Rapid response sampling Arctic-wide (e.g. contaminants)

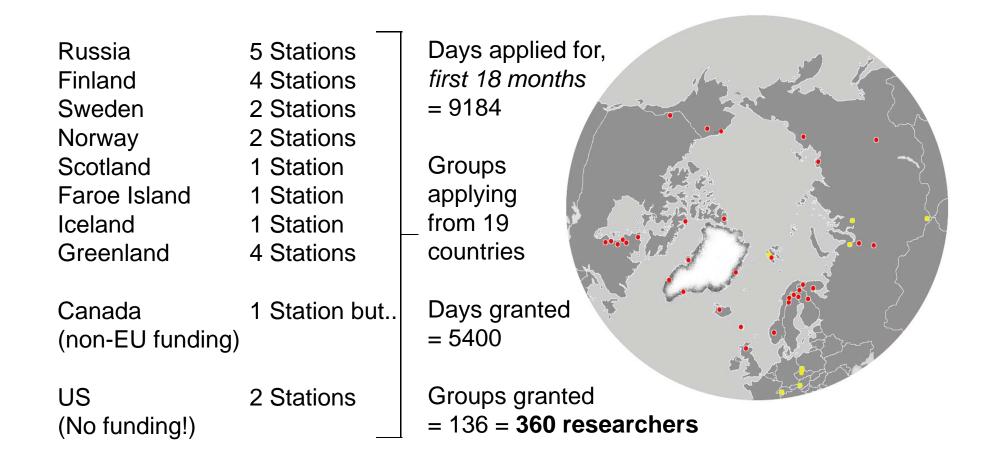


Increased access to the Arctic – Transnational Access

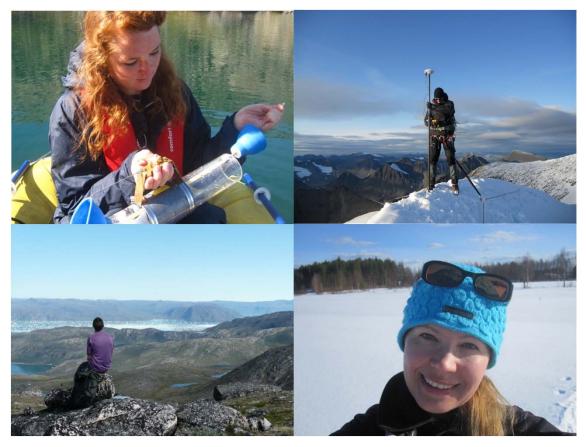
- •Free access and services to international researchers
- •INTERACT offers 10 500 days over four years, number of access days offered by a station ranges from 35 days to 2 120.
- •The total access cost is estimated to be ca 1.8 million EUR
- •Non-EU nationals can be included if they belong to a "user group" led by an EU national



Increased access to the Arctic – T A to 20 stations – from West Greenland to eastern Siberia



A Transnational Access Call is open 1.8.-30.9.2013 at www.interact-eu.org



Apply for Transnational Access to conduct research at the coolest places of the North!

Joint Research Activities

Developed and tested instruments to monitor energy exchange in different Arctic environments as partial ICOS stations



INTERACT Station Managers' Forum

Best practice of station management and administration

- design of research and monitoring programmes
- safety issues
- education and training



INTERACT Station Catalogue



INTERACT Station Catalogue













Research and monitoring at INTERACT sites (March 2014) – branded reports

One report will present:

- Metadata of research and monitoring projects carried out at INTERACT Stations (at least from the year 2000)
- A list of parameters monitored at individual INTERACT Stations
- Description of best practices for monitoring selected parameters.

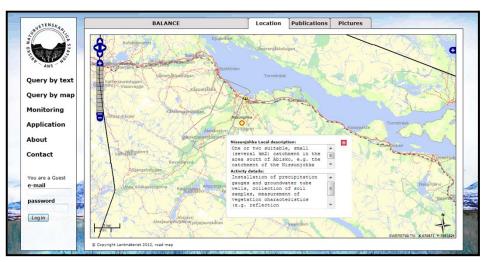
A second report will present:

Summaries of Transnational Access projects and their broader contexts in popular science format.

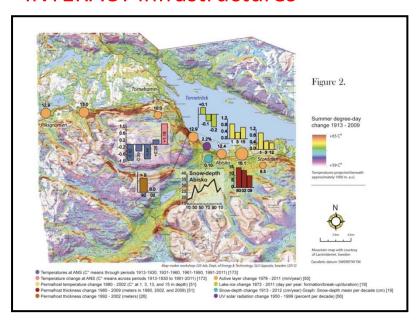


Data Management

- ✓ Increase transparency and availability of data through collective data archives
- ✓ **Minimize risks** for information gaps and unexploited synergies
- ✓ Provide standardised tools for data management, as well as for station management



- Geographic database management system (Abisko Scientific GIS)
- Future implementation beyond the INTERACT project
- ScanDB software for processing, storing, and sharing data products at INTERACT infrastructures



Abiotic change 1913-2009 in the Abisko region, sub-Arctic Sweden. Callaghan et al. (2013) Accepted for publication in Phil. Trans. Royal Soc.

Outreach



Follow us!







WHAT'S ON

GALLERY

ARCTIC RESOURCES

DOCUMENTS

ARCTIC ART

Case study: Using local knowledge



INTERACT scientists have worked with elders in the Faroes to tackle sea encroachment More...

Arctic Research blogs



INTERACT scientists are blogging about their work More...

Discussing Climate Change



INTERACT members talk with Scottish school children about climate change

Diaries



station in Greenland like? More...

INTERACT is a non-exclusive one-stop-shop and has vast potential!

