







International Network for Terrestrial Research and Monitoring in the Arctic

www.eu-interact.org

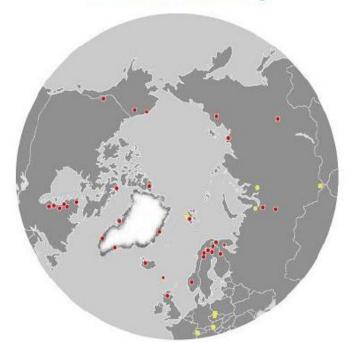




















Terry V. Callaghan, Coordinator, on behalf of the INTERACT team

Distinguished Research Professor, Royal Swedish Academy of Sciences, Professor of Arctic Ecology, University of Sheffield, UK Visiting Professor, Tomsk State University, Russia

About INTERACT





INTERACT stations host thousands of researchers world-wide

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





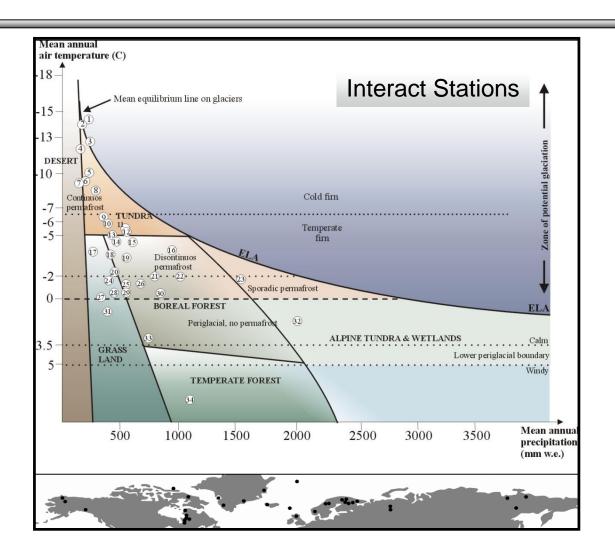






Strategically they sample the wide environmental envelope of The North





Interact	Stations
1.	Chokurdakh
2.	Bylot Island
3.	Samoylov
4.	Point Barrow
5.	Spasskaya Pad
6.	Zackenberg
7.	Ward Hund Island
8.	Toolik Lake
9.	Sverdrup
10.	Salluit
11.	Nymto Park Station
12.	Lac á L'eau Claire
13.	Ny Aalesund
14.	Boniface River
15.	Whapmagoostui –Kuuijjuarapik
16.	Tarfala
17.	Kluane Lake
18.	Arctic Station
19.	Umiujaq
20.	Vindelfjällen
21.	Kilpisjärvi
22.	Finse
23.	Sermilik Station
24.	Kevo
25.	Mukhrino Field Station
26.	Radisson
27.	Svanhovd
28.	Kolari
29.	Oulanka
30.	Khibiny
31.	Abisko
32.	Sornfelli
33.	Litla Skard
34.	Cairgorms

INTERACT at a glance

INTERACT – BUILDING CAPACITY FOR MONITORING AND RESEARCH THROUGHOUT THE ARCTIC



33 partners in 19 countries 44 research stations joined in so far

- -Biodiversity
- -Glaciology
- -Permafrost
- -Climate
- -Hydrology
- -Ecology
- -Biogeochemistry
- -Human dimention



Photo: Romain Schlappy

Transnational Access, 3900 days granted to 68 user groups so far **Station Managers' Forum**. Metadatabase for monitoring and research, station catalogue

Joint Research Activities. Measurements of biospheric feedbacks **Outreach**

International Networking

















INTERACT Services for the Arctic and northern alpine regions where observing capacity is low:

INTERACT partner monitoring activities have been on-going for up to 100 years



Ground validation of remote sensing



Model testing on the ground



Hosting standardised experiments (e.g. ITEX, LTER, ANAEE, EXPEER?)



Hosting observation and sampling networks (e.g. CALM, Lifewatch, ICOS, GLORIA)



Sampling and inventoring (EBON?, ABC)



Building capacity for education e.g. species identification (University of the Arctic)



Altai Mts 2010, International summer school



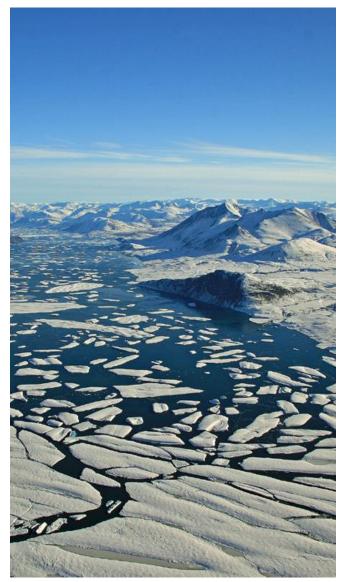
Retrospective monitoring (BTF (IASC, CBMP)) – monitoring does not start from to-day!

Instrument design, testing and distribution (SIOS)

Attribution of remotely sensed data through local knowledge and access to stakeholders

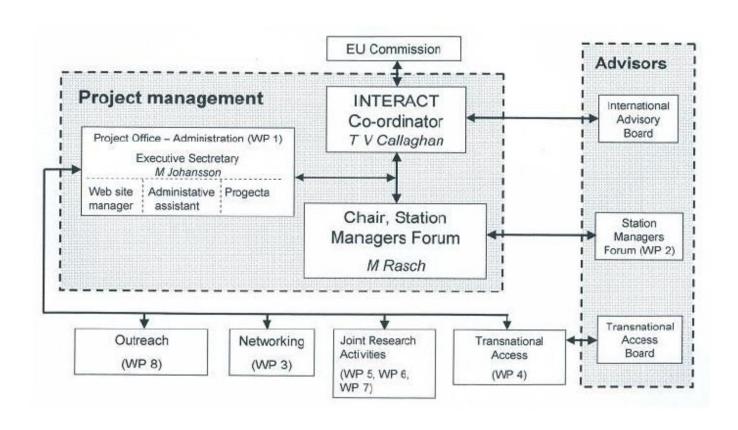
Improved data comparability and accessibility (IASC + ??)

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



INTERACT Management structure and information flow













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INTERACT

work package deliverables

INTERACT includes eight work packages:

Coordinating activities

Management and Co-ordination

WP2 Networking activity: Station Managers Forum

WP3 Networking activity: International co-operation

WP8 Interactions with stakeholders including outreach

Transnational Access activities

WP4 Transnational Access (1,8 mio. EURO). Total of 10.433 days in four years, at 18 stations

Joint Research Activities

WP5 Joint Research Activity: Virtual instrumentation

Joint Research Activity: Up-grading, extending and integrating measurements of feedback mechanisms from terrestrial environments in a changing climate

WP7 Joint Research Activity: Data Management







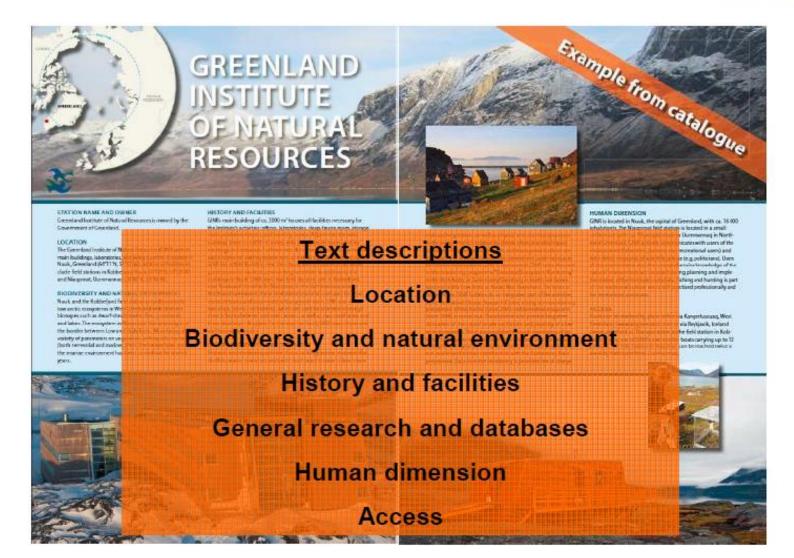






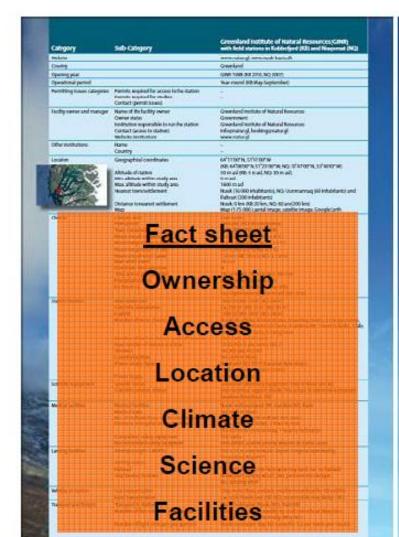
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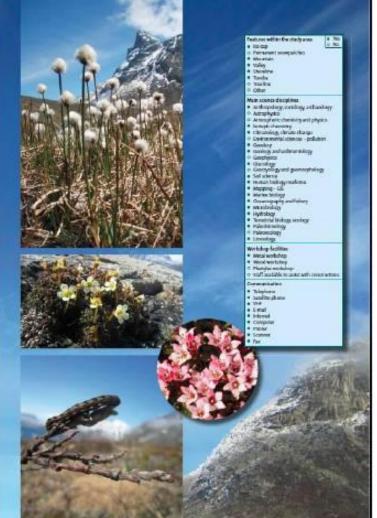




INTERACT Station catalogue







Best practice of station management and administration





Report will include themes on:

- design of research and monitoring programmes.
- International cooperation in relation to research and monitoring.
- Data capture and sharing.
- Education and training.
- Outreach.









Deadline March 2014

Research and monitoring at INTERACT stations



The report will present:

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









Deadline March 2014

Joint Research Activities: facilitating monitoring





Transnational Access??



- ➤ Each station will offer free access and services to international researchers and the maximum length of visit is three months
- ➤INTERACT has offered 10 433 days over four years, in 18 stations, in seven countries, the smallest number of days offered by a station is 35 days and the largest is 2 120 days.
- ➤ The total access cost is estimated to be ca 1.8 million EUR
- Three calls have already been completed so far 3,900 days have been awarded to 68 user groups.
- ➤In total there will be six calls with the possibility for a seventh.
- ➤ Non-EU nationals can be included if they belong to a "user group" led by an EU national and with EU nationals in a majority









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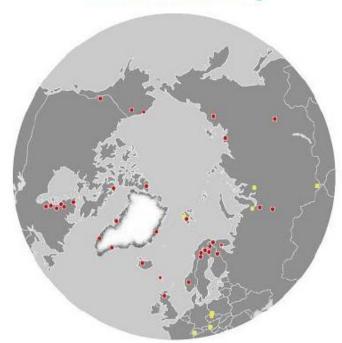




















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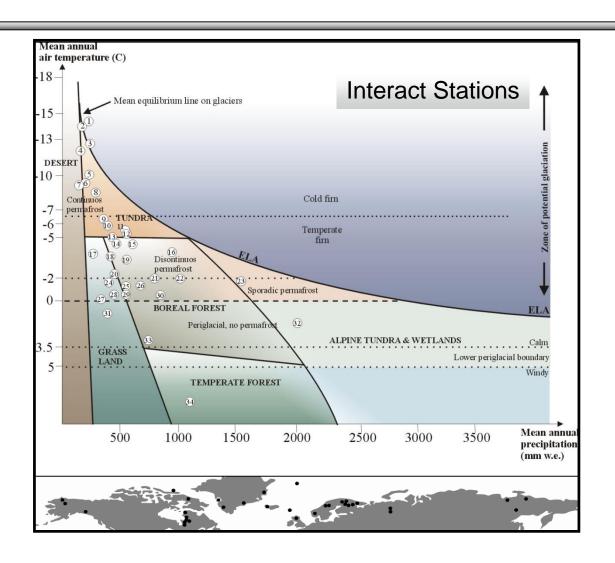






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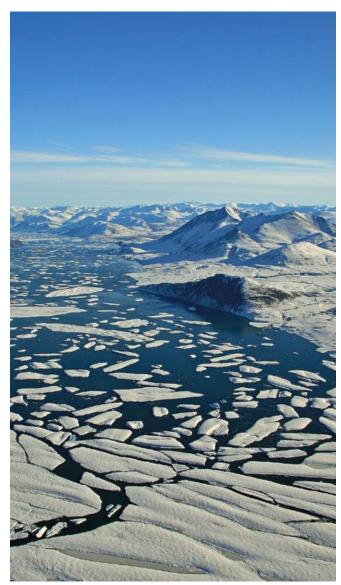


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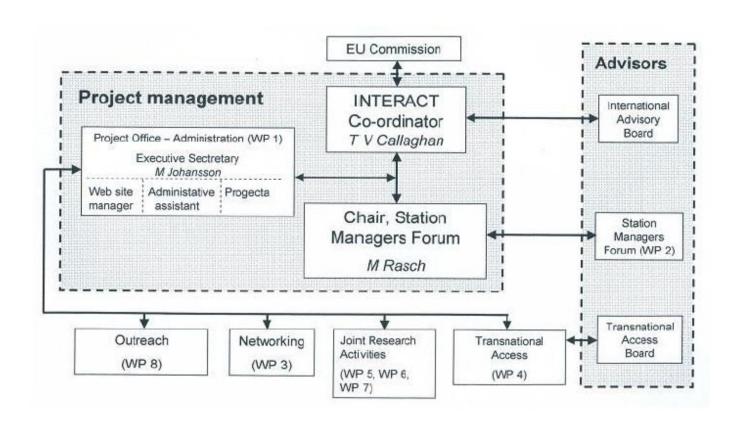
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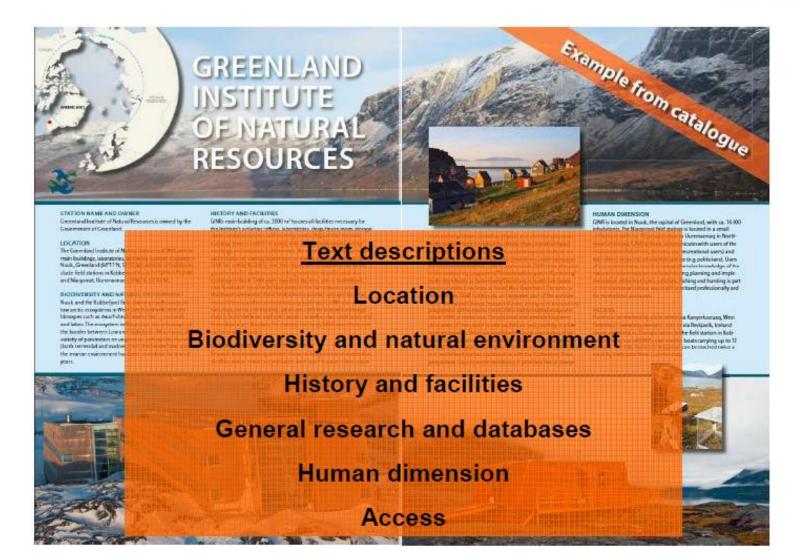






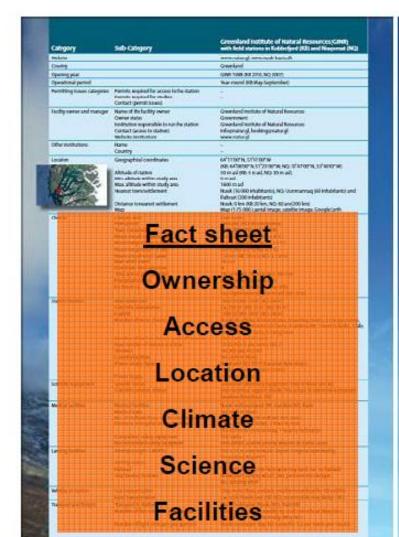
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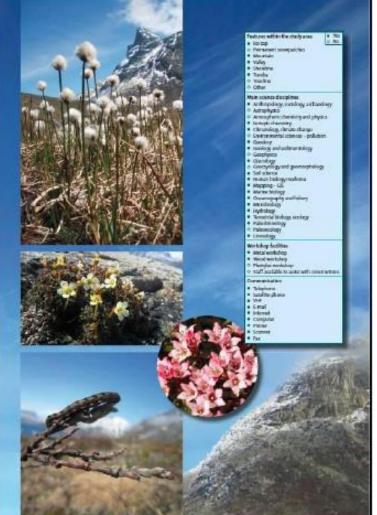




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