

## Integrating Activities for Advanced Communities



### D1.13 – 3<sup>rd</sup> Newsletter

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<b>RE</b>	Restricted to a group specified by the Consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the Consortium (including the Commission Services)	

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## Publishable Executive Summary

The third INTERACT Newsletter presents information from month 12 to 18 of the project. It is obvious that all parts of the project is now up and running as there is a lot of progress reported in this Newsletter. The newsletter contains highlights from two INTERACT meetings (the first annual meeting on Svalbard and the third Station Managers Forum in Italy) and our new web site. It also contains updates on our coming TA/RA season summer 2018 and updates from the joint research activities on Drone development and the rapid environmental emergency. INTERACT has continued to grow with a new Observer Station from Canada and a new unfunded joint research activity on unmanned research stations have joined our network through the IK Foundation. News on meetings where INTERACT has been represented and future meetings where INTERACT will be present is also presented in the newsletter. Finally, news from the stations such as information about new projects is published.





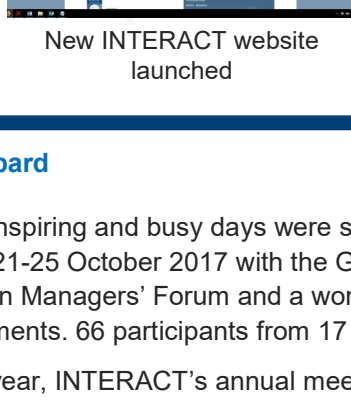
# INTERACT NEWSLETTER

Newsletter #3 March 2018

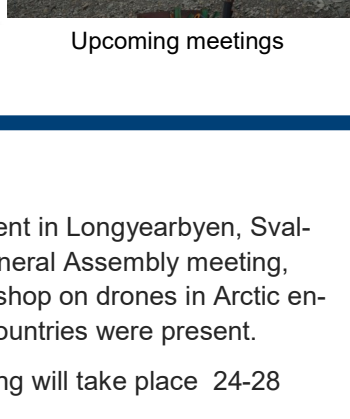
## Top stories in this newsletter



1st Annual Meeting  
on Svalbard



New INTERACT website  
launched



Upcoming meetings

### 1st Annual Meeting on Svalbard



Five inspiring and busy days were spent in Longyearbyen, Svalbard 21-25 October 2017 with the General Assembly meeting, Station Managers' Forum and a workshop on drones in Arctic environments. 66 participants from 17 countries were present.

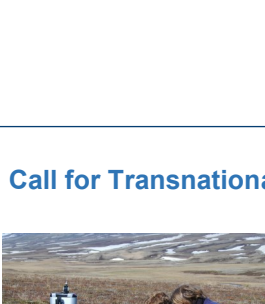
This year, INTERACT's annual meeting will take place 24-28 September.

### Station Managers' Forum III



The third Station Managers' Forum was held in Vahrn, Italy 19-22 March 2018. This Station Managers' Forum also hosted a workshop on Zero Emission Research Stations and a one day Safety Course. The meeting was attended by 45 people from 15 countries.

### New INTERACT website launched



We are proud and happy to announce that INTERACT has a completely new webpage with many neat functions. Under "Resources" you can always find the latest version of a general INTERACT presentation, poster, flyer and logo. The website is still located at <https://eu-interact.org/>

### INTERACT Transnational, Remote and Virtual Access



47 groups will conduct research at 36 stations with the support from INTERACT Transnational and Remote Access in spring-summer 2018 and autumn-winter 2018-2019. Learn more about the Transnational Access (TA) and Remote Access (RA) and related opportunities from the [TA webpages](#) under the INTERACT website, and follow the groups' adventures from the new season of [Arctic Research Blogs](#), starting up in May!

Virtual Access (VA), is currently available to 11 station's data and metadata. Visit the [INTERACT Virtual Access single-entry point](#) Our [TA User Community](#) brings together the previous, current and potential TA Users for networking, webinars and events. One of the latest activities has been the launch of the INTERACT TA Ambassadors that are helping us to increase the awareness about TA, RA and VA in the scientific community.

### Call for Transnational and Remote Access will open in mid-August

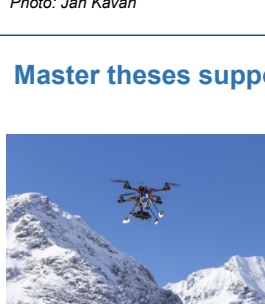


Photo: Henning Thing

The next call for applications for Transnational Access and Remote Access will be open 13 August - 12 October, 2018. Further [TA call information](#), [stations available in the call](#), [descriptions of stations and their facilities](#), and registration to the [INTERACCESS on-line application system](#) can be found from the [INTERACT website](#). For any additional information, please contact the Transnational Access coordinator Hannele Savela, [hannele.savela@oulu.fi](mailto:hannele.savela@oulu.fi). Apply to INTERACT Transnational Access to conduct research at the coolest places in the North!

### TA Webinar on Drones



Photo: Annelie Sule

The INTERACT TA User Community Webinar on Drones, held on 30th January, gathered together about 50 participants from eleven countries to learn more about drones and their use for research in Arctic environments. The webinar recording and the following materials are available for viewing here: <https://eu-interact.org/accessing-the-arctic/reports-from-the-field/>

### The red phone



Photo: Jan Kavan

WP6 continued assessing the most important risks that scientists and/or indigenous people consider most relevant, especially focused on human and animal diseases. A fruitful workshop with researchers, authorities and local people was held in Salekhard, Russia, where new suggestions and inputs were gained about weather and climate extremes.

### Master theses supporting Drone Technology within INTERACT

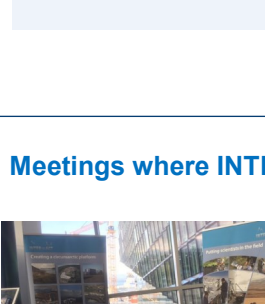
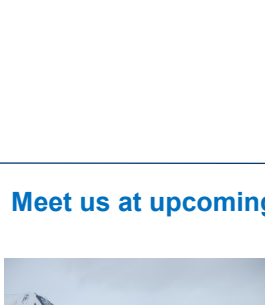


Photo: Tomas Gustafsson

Three master thesis students in mechatronics from the Royal Institute of Technology, Stockholm, are doing research that will be supporting WP8 (Developing technology for drones for scaling up from research stations). [Alexandra Tang](#) and [Daniela Attalla](#) are working on a project, whose aim it is to develop a drone mounted measuring system that can be used as a tool when estimating the snow ablation in areas that are difficult to reach in the Arctic. [Sofia Olsson's](#) thesis treats the construction of mechatronic water samplers that will be used with drones.

If you have questions or input to the subject, your input is highly appreciated!

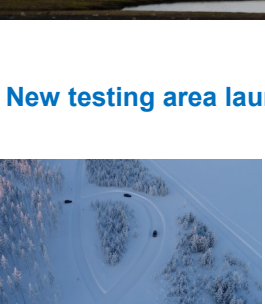
### IK Foundation—a new unmanned research station on Svalbard



INTERACT has signed a memorandum of understanding to work with the IK Foundation. The IK Foundation has recently launched a project "Naturae Observatio", an unmanned research station at Prins Karls Forland on Svalbard, an area where permanent research stations are not allowed.

This MoU will promote cooperation between these two partners and especially encourage exchange of knowledge on best practices related to research stations' establishment and management in harsh Arctic conditions. Naturae Observatio is an unfunded joint research activity within INTERACT.

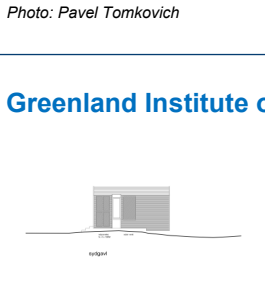
### INTERACT part of the Arctic Cluster



INTERACT builds together with the other Horizon 2020 Arctic projects the [EU Arctic Cluster](#) – a network which merges the most up-to-date findings on Arctic change and its global implications. The EU Arctic Cluster cooperates closely with policy makers, indigenous peoples, local Arctic communities, business representatives and the European civil society.

An overview of INTERACT and the other Arctic projects is found at the EU Arctic Cluster's website: <http://www.eu-polarnet.eu/eu-arctic-cluster/>

### INTERACT at International PhD School



INTERACT contributed to an International PhD School on the topic "The changing cryosphere: from sensors to decision-making" that took place in Iqaluit, Nunavut, Canada 2-9 March 2018. The PhD School was organised by Sentinel North based at INTERACT partner Université Laval and more information from the field school can be found at <http://sentinellenord.ulaval.ca/en/changing-cryosphere-field-report>

### Meetings where INTERACT was present



Arctic Circle, Reykjavik

Part of the work of an infrastructure network is of course networking, and INTERACT was either presented or represented at multiple meetings throughout the last couple of months:

- Arctic Circle, Reykjavik, Iceland
- GEO Week, Washington DC, USA
- COP 23 Bonn, Germany
- Polarforum 2017, Stockholm, Sweden
- Salekhard meeting, Salekhard, Russia
- T-MOSAic, Quebec City, Canada
- Arctic Change, Quebec City, Canada
- ISAR-5, Tokyo, Japan
- APPLICATE General Assembly, Barcelona, Spain
- ARICE Kick off meeting, Bremerhaven, Germany

### Meet us at upcoming meetings

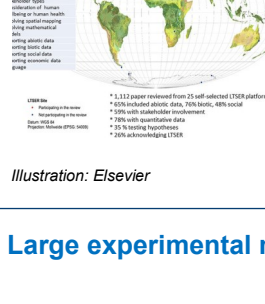
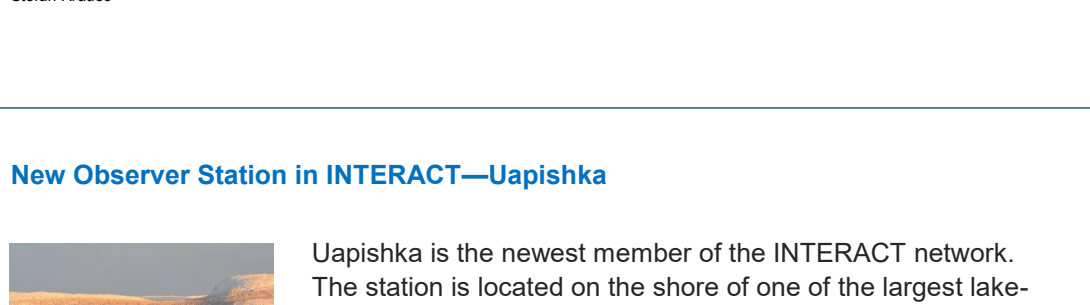


Photo: Margareta Johansson

INTERACT will also be represented at several meetings throughout the next couple of months:

- Polar 2018, Davos, Switzerland, 15-26 June 2018
- UArctic Congress, Oulu, Finland 5 September
- CAFF biodiversity Rovaniemi, Finland 9-11 October
- Arctic Circle, Reykjavik, Iceland 19-21 October
- AGU Washington DC, USA 10-14 December



### News from the stations

#### New testing area launched in Sodankylä

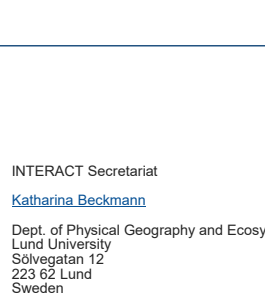


Photo: Kari Mäenpää

Finnish Meteorological Institute has launched intelligent traffic systems, advanced road weather services and a 5G-networking winter testing area in Sodankylä. The test environment is a joint effort between Finnish Meteorological Institute and VTT in Sod5G EAKR project.

#### Meinypil'gyno Community Based Biological Station



Photo: Pavel Tomkovich

Meinypil'gyno Community Based Biological Station had a successful summer season, focusing on breeding bird monitoring. The work of the station plays a decisive role in the planning of a Natural Park in South Chukotka, involving both scientists and local people.

#### Greenland Institute of Natural Resources (GINR) is expanding in Kobbefjord



The field station on Kobbefjord currently houses 4 people, but to secure the accommodation of the increasing number of researchers and students visiting Kobbefjord, GINR is hoping to inaugurate 2 new buildings in the autumn 2018, with sleeping facilities for 8 people and a building for storage. Solar panels will act as the main source of heating and power generation.

#### New equipment at Mukhrino Field Station



Photo: Nina Filippova

Mukhrino field station has received a methane analyzer LI-7700 for its Eddy Covariance system installed in a peatland ecosystem within the station's infrastructure developed at Mukhrino bog. The installation of the equipment and the launch of the system will be held by a group of researchers from Helsinki University during the Transnational Access grant (GHG-FLUX+) in April 2018.

#### Samoylov research station featured in Le Monde

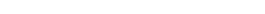


Illustration: nwtresearch.com

Samoylov research station at the Lena delta in Russia was visited by French newspaper Le Monde for a beautiful feature on permafrost. Read the full article and enjoy the stunning photographs [here](#).

#### The ECN Cairngorm site featured in a recent science review



Illustration: Elsevier

The site is nested in the Cairngorms long-term social and ecological research platform. Studies of the human-nature interaction were included in the [review](#).

#### Large experimental manipulation at Svartberget



Photo: Nicolai Brekenfeld and Stefan Krause

Stream flow manipulations were conducted at Svartberget, northern Sweden, to study the effect of low and high flows – as expected in the future due to climate and land use change. The experiment involved over 20 scientists from Sweden, the UK, Canada and Germany. Measurements of carbon and nutrient cycles, hydrological exchanges and stream ecosystem respiration were carried out, resulting in better understanding of the impacts of climate change on the metabolism of boreal stream ecosystems.

#### New Observer Station in INTERACT—Uapishka



Photo: <http://stationuapishka.com/?lang=en>

Uapishka is the newest member of the INTERACT network. The station is located on the shore of one of the largest lake-reservoirs of Québec and at the foot of the Uapishka mountain range.

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