THE ARCTIC UNIVERSITY OF NORWAY

Arctic Field Summer Schools: training and awareness in the Arctic











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The INTPART Field School Project

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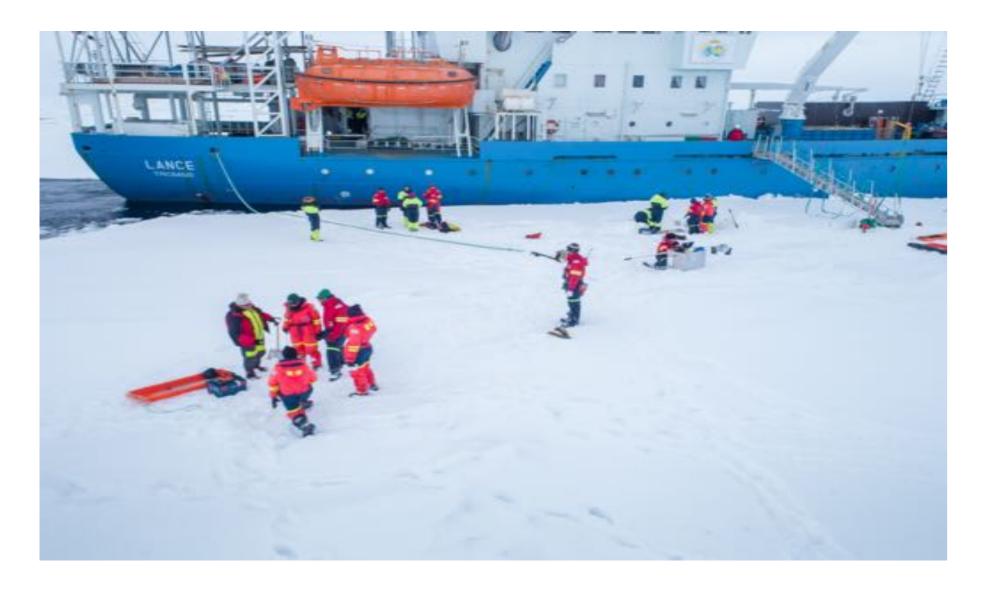
The project supports research and education collaboration among

- UiT The Arctic University of Norway
- University of Alaska Fairbanks (UAF), USA
- University of Calgary (UC), Canada.

A series of three summer schools

engaged nearly fifty graduate students in exploring science questions related to current Arctic challenges, and brought together leading Arctic researchers from the partner institutions. Each partner organised a Field School and each had their own unique styles and emphasis.

This collaboration aimed to deepen the Arctic knowledge of the young generation, and to create knowledge and resources to stimulate interest in Arctic research. The program promoted awareness about challenges caused by changing sea ice conditions, ice bergs, ocean and meteorological conditions, how we can use remote sensing to monitor these, and the needs of the Arctic communities.



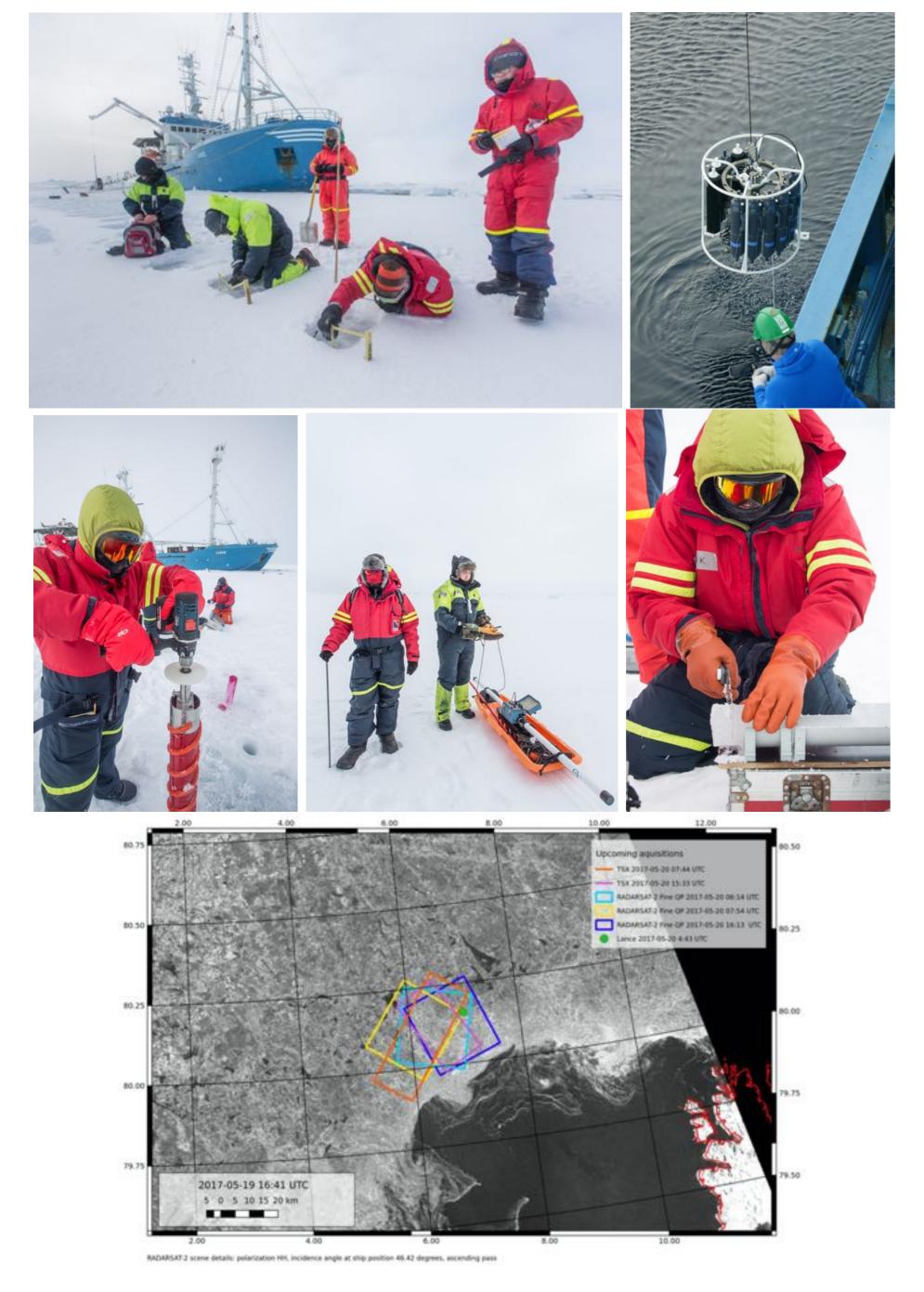
2017 Norwegian Field School

1 week field cruise to the marginal ice zone, NW Svalbard, on board R/V Lance

- May 2017, 15 Students and 12 Arctic researchers
- Ocean, snow and ice measurement field training
- UAV/drone optical and radar imagery and processing Satellite PolSAR imagery acquired (co-located with field data)

week remote sensing workshop at CIRFA/UiT -The Arctic University of Norway, in Tromsø

- Lectures on Arctic science and remote sensing topics
- Analysis of collected data and satellite images
- Plan and present student projects





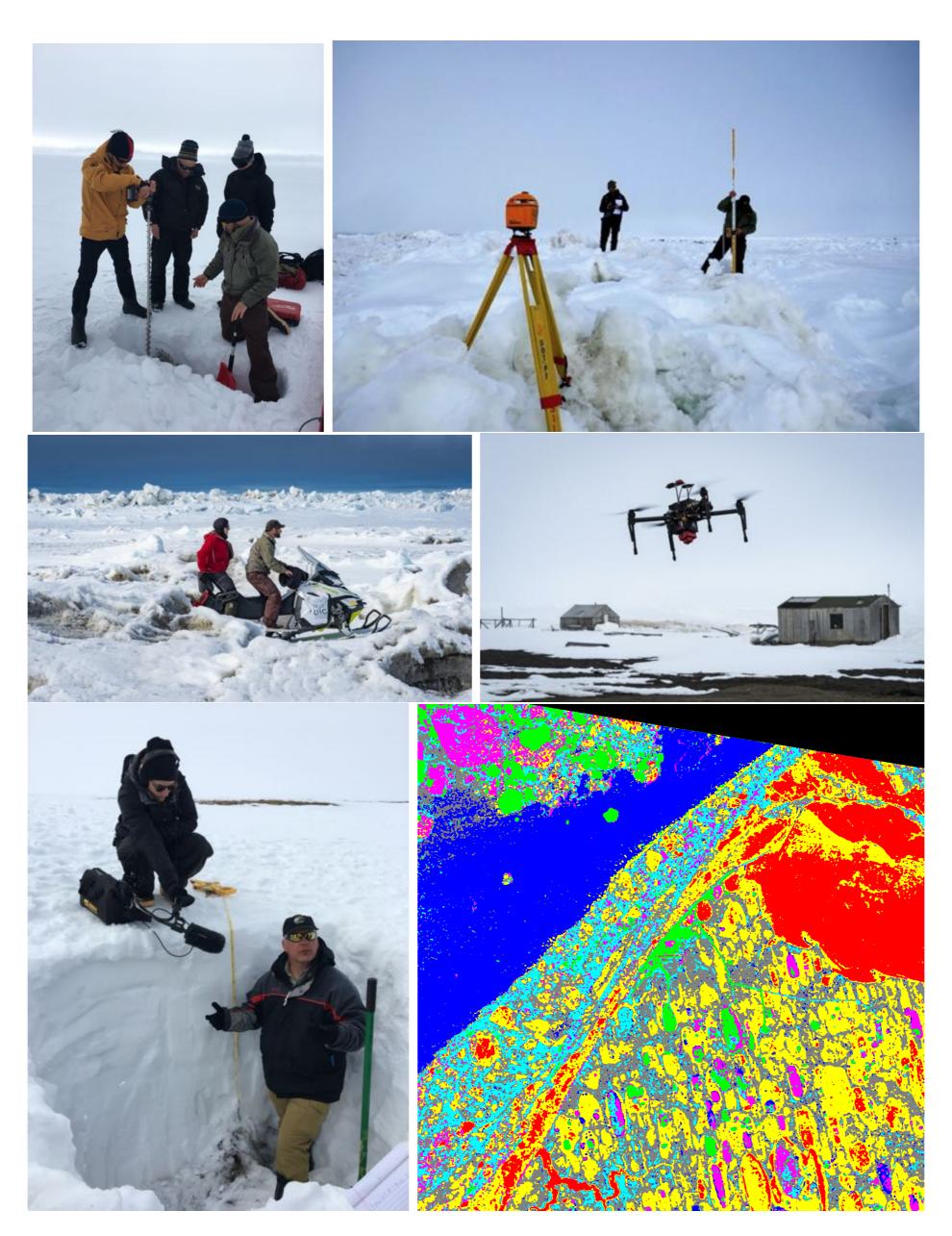
2018 Alaskan Field School

10 day Field School at Utqiagvik (Barrow), Alaska **Arctic Coastal Environments in Rapid Transition**

- May/June 2018, 16 Students and 11 Arctic researchers
- Permafrost, Land-fast sea ice, Lagoon ice, Tundra
- Coastal erosion, Sediment transfer, Hydrology, and weather events
- Remote sensing, GIS/DEM analyses, and time-series analysis
- Arctic people living in and utilising sea ice

1 day student workshop at IARC/UAF, Fairbanks, Alaska

Open presentations of student projects



 May/June 2018, 19 Students and 8 Arctic researchers Added Glaciers to the cryosphere repertoire

15 day Capstone Synthesis Workshop, at the

Kluane Lake Research Station, Yukon, Canada

2019 Canadian Workshop

- Summarise the state of the art in remote sensing of ice and
- polar ocean conditions, re-visited previous schools work
- Remote sensing time-series to observe changing conditions
- The impacts of climate change on the Arctic environment, ecosystems and people
- Focus on human activities in the Arctic environment, stakeholder needs, and First Nation peoples



Educational Benefits

- Field schools and Workshops give:
- Valuable experience in the physical Arctic environment
- Knowledge on how scientific measurements are performed
- Lectures and training from leading experts in the field
- Real experimental data for research and study courses
- Long-term aims:
- Learn and document best-practices in assessment reports
- Foster long-term collaboration between partners
- Obtain re-usable material for future teaching resources
- Learn different ways to run summer schools
- Publish Field School results in scientific journals

Exchange Program

Exchange program (2019 and 2020) to build and encourage cooperation between the international partners, staff and students. Cooperation on joint scientific work or papers, skills exchange, teaching methods.

Acknowledgements

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