

Update on SIOS activities

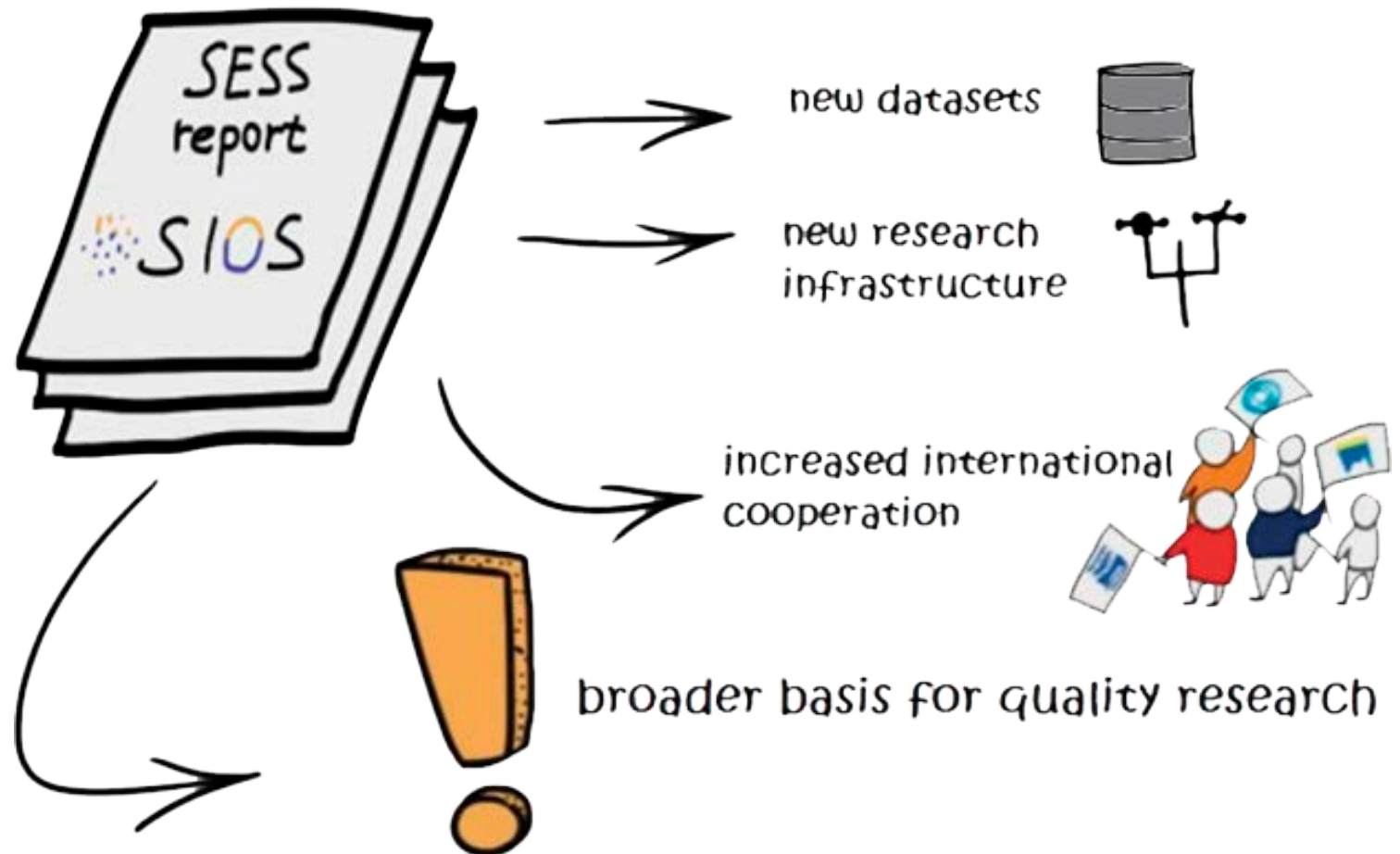




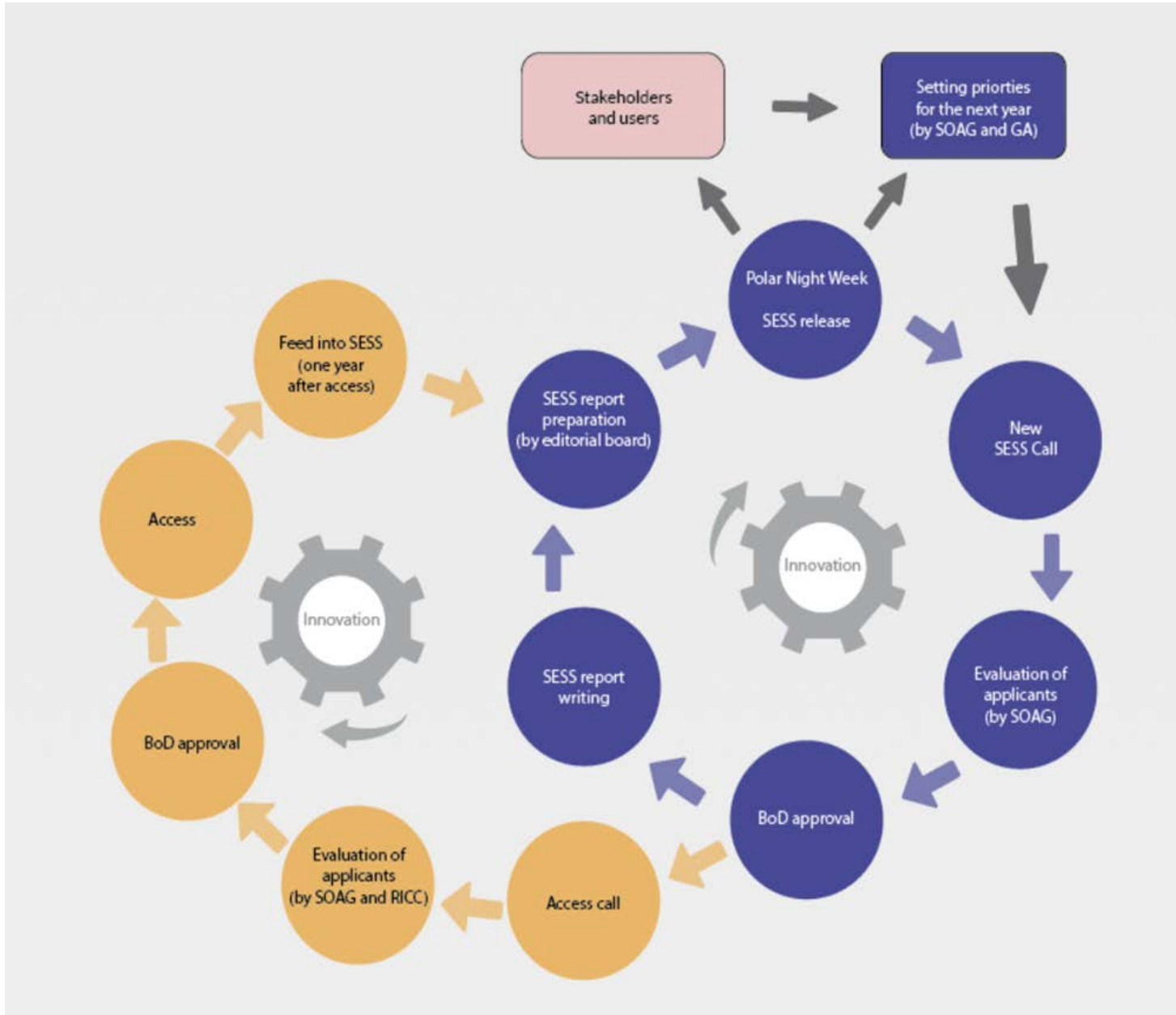
Some 70 participants

Annual State of Environmental Science in Svalbard (SESS) report

- Focus on integrating datasets and connecting measured parameters
- Research needs
- Future priorities for investment and direction
- Developing the observing system



Annual cycle of SESS report





The First SESS report published 14.1.2019

9 Chapters

**44 Authors from
39 international organizations**

Editors:

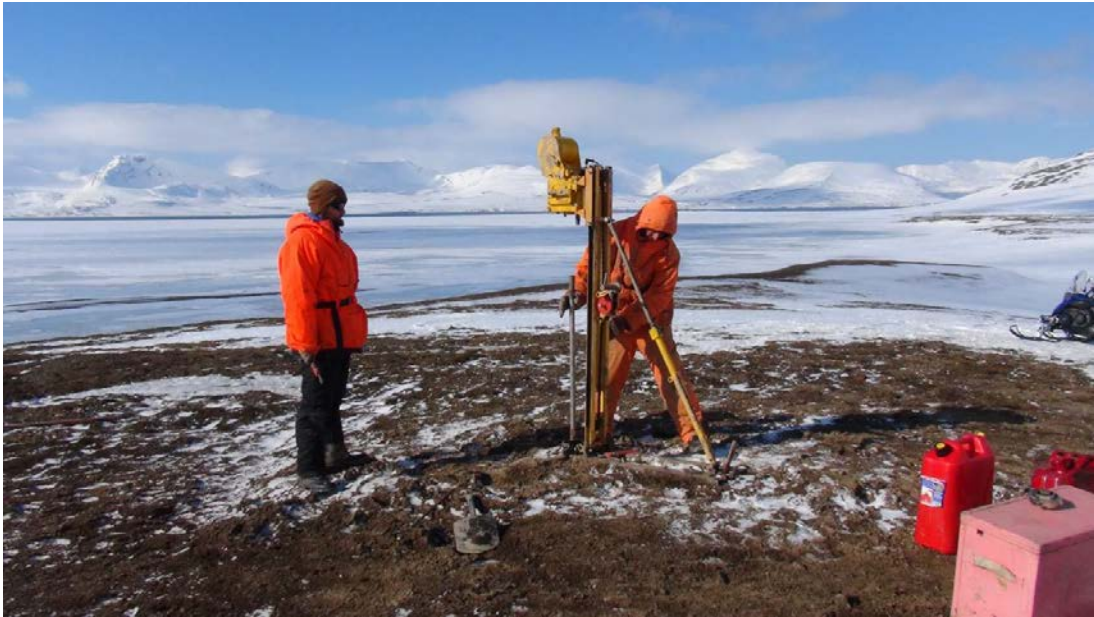
Elizabeth Orr, Georg Hansen, Hanna Lappalainen,
Christiane Hübner, Heikki Lihavainen

Available at

www.sios-svalbard.org/SESS_Issue1

SIOS is an observation system for the entire column

This first SESS report takes us from deep permafrost through the surface interfaces into the ocean and into the to the upper atmosphere approaching the space



Permafrost



Microbial activity

The next access call should reflect the recommendations of the first SESS report.

Geographically extended observations with measurement
integrating different spheres

Coordination of observations, collaboration

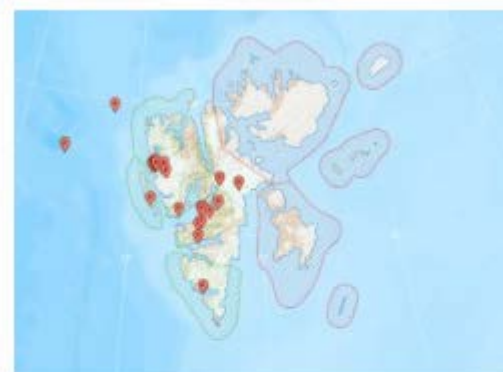
Holistic view

Call for the next SESS report contributions is closed.

Would you like to be part of the editorial board and form the next SESS report? Please contact information@sios-svalbard.org before 29 May 2019.

Access and Logistics

- Access calls
 - 2017: 10 applications, 5 funded
 - 2018: 10 applications, all funded
 - 2019: Call opens 30th June
- More logistical services offered to SIOS members
- SIOS project finder in RiS



Click on the map to view current and planned SIOS projects in RiS

Services

Office space
Longyearbyen

Storage space
Longyearbyen

Cargo
transport

Laboratory
Longyearbyen

Workshop space
Longyearbyen

Field
equipment

Discounts in Longyearbyen for SIOS members

Hotel
rooms

Car
rental

Information

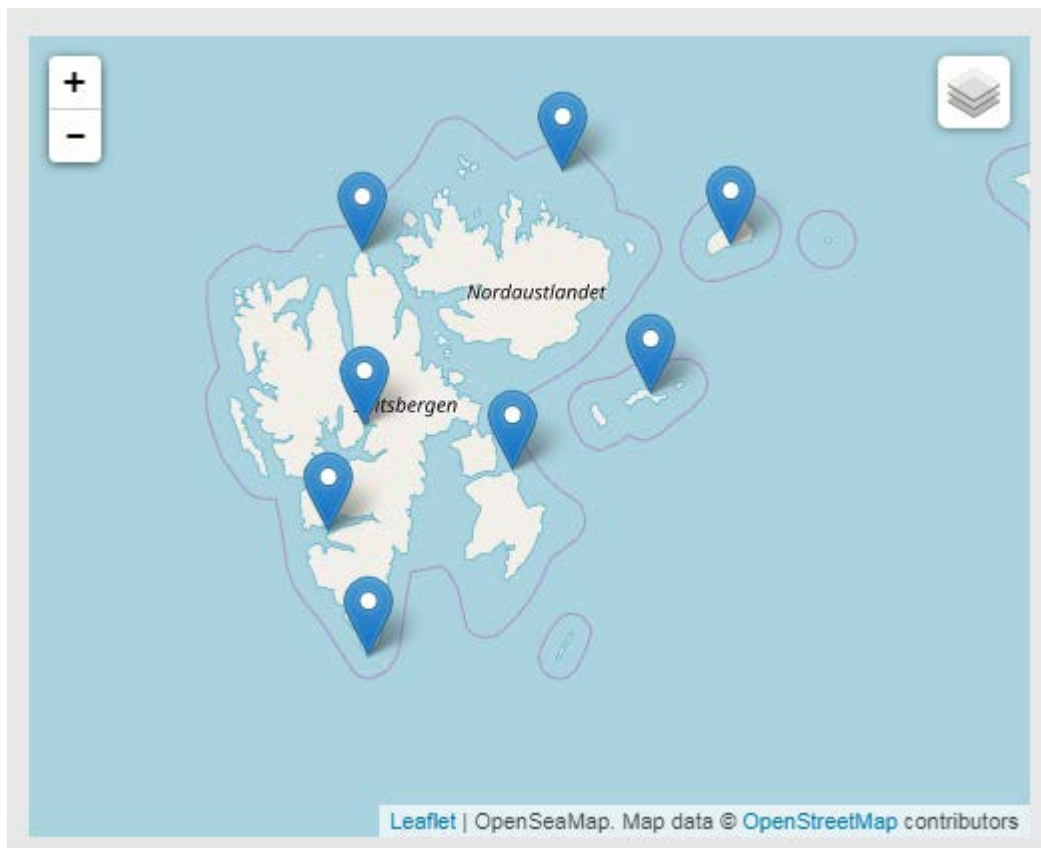
Research
permits

Arctic
field safety

SIOS
field projects

Other
logistical service

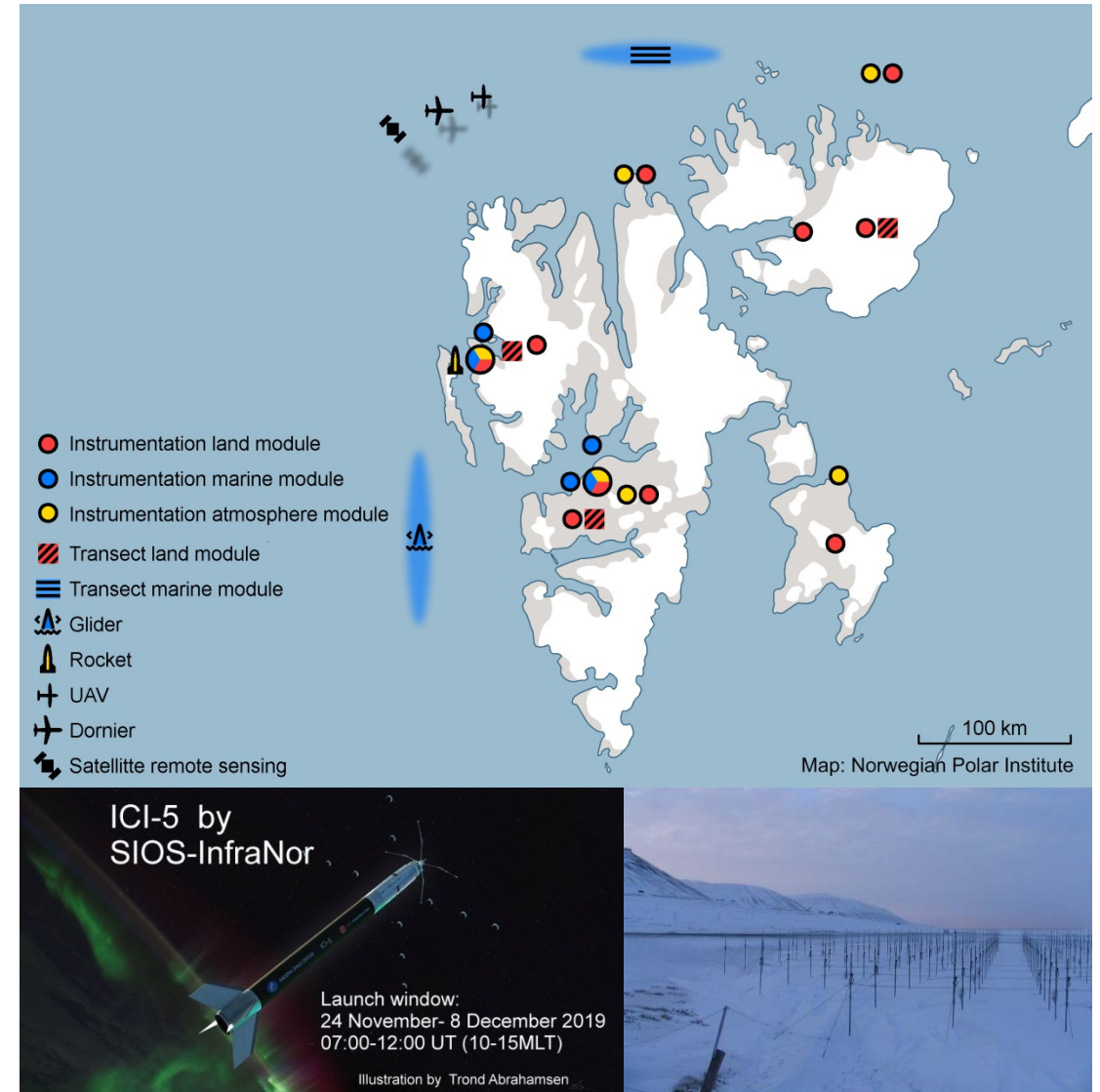
Overview of observation facilities



- Updated according to the feedback received at the last NySMAC meeting – thank you all for your input!
- Data entry begun by SIOS intern for atmosphere flagship parameter list – work in progress.
- Anyone can register and enter their observation facilities!

Coordinating new infrastructure

- **SIOS-InfraNor** - Infrastructure development of the Norwegian node of SIOS
- Update:
 - Installation of instruments in Ny-Ålesund later this year (NILU, UiT)
 - Installations at field locations around Ny-Ålesund beginning this year (NPI, UiT, NORCE, NVE)
 - Rocket campaign in Ny-Ålesund in December 2019 (UiO)



SIOS participation in events in 2019

- 22 – 24 January: Arctic Frontiers, Tromsø
- 26 - 27 February: SaGHAA 5 Conference, Delhi
- 25 - 29 March 2019: ENVRIweek, Helsinki
- 7 - 12 April 2019: EGU 2019, Vienna
- 13-15 May 2019: Arctic Safety Conference, Longyearbyen
- 13-17 May 2019: Living Planet Symposium, Milan
- 22-30 May 2019: Arctic Science Summit Week, Arkhangelsk
- 4 June 2019: ENVRIplus Final Dissemination event, Brussels
- 5-6 November 2019: Svalbard Science Conference, Oslo (+ side meeting, most likely 4th November)

SIOS Polar Night Week 2020



Training course on marine remote sensing in Svalbard, 2-5 September

The goal of the course is to teach participants the basic skills needed to work independently to acquire, analyse and visualise marine data sets derived from a variety of satellite sensors.





SIOS

SVALBARD INTEGRATED ARCTIC
EARTH OBSERVING SYSTEM