

Call for proposals to contribute to the second SESS report

Proposal Deadline: 15 May 2019, 16:00 CET

Total funds available: up to 2.4 million NOK

Background for this call

The [Svalbard Integrated Arctic Earth Observing System](#) (SIOS) is a regional observational system for long-term measurements in and around Svalbard, addressing Earth System Science (ESS) questions related to Global Change. The upgraded observing system and research facilities offered by SIOS build on the extensive observation capacity and diverse world class research infrastructure provided by many nations already established in Svalbard. This includes a substantial capability for utilising remote sensing resources to complement ground-based observations. From this foundation, SIOS envisions a significant contribution to the systematic development of new methods and design for the implementation of observational networks in Arctic environments.

The State of Environmental Science in Svalbard (**SESS**) report summarises knowledge about the state and development of key parameters and analyse how these parameters interact with each other. The SESS report outlines the work that has been done in the last year(s) within the SIOS cooperation to optimise the observing system and give recommendations for research priorities in the following years (<https://www.sios-svalbard.org/SESSreport>).

The second SESS report will be published in January 2020. SIOS seeks proposals that both utilise available data and support the development and optimisation of the observing system. This is an opportunity to be part of setting the agenda for prioritisation within SIOS.

Purpose of this call

SIOS is looking for contributions that update or complement chapters of the first SESS report. **Applications on all topics within Earth System Science are welcome.** Contributions within the following themes are especially encouraged:

- Hydrology, including biochemistry

- Glaciology
- Terrestrial ecosystems
- Marine biology
- Historic and emerging pollutants incl. microplastics
- New technologies and methodologies (e.g. robotics, remote sensing, bio-optics)
- Analysis of data with large horizontal and/or vertical extent, e.g. meteorology over the whole of Svalbard and surroundings
- Applications bringing together observations from Ny-Ålesund, Longyearbyen, Barentsburg and Hornsund

Contributions can be in the form of a review of existing knowledge on the subject, a summary of long-term data series, an analysis of new data, or an update of data from earlier SESS chapters.

General eligibility criteria

All chapter proposals must:

- include the application form, an itemised budget, a project description (not exceeding 2 pages), and max 2 page CVs of all partners;
- have partners from at least three different nations and two SIOS institutions;
- have a Principle Investigator (PI) from a member or observer institution;
- be accepted by the institution of the PI.

Other requirements

The SESS contributions to the second SESS report must:

- be submitted by the 15th of September 2019, and a possible revised version by the end of October 2019;
- commit to long-term availability of the data streams to the SIOS consortium;
- adhere to the SIOS data policy (www.sios-svalbard.org/Documents).

1-3 authors from each contribution are expected to take part in a common SESS report contributors' workshop on 18th – 19th June 2019 (place to be determined, remote access possible) and the next Polar Night Week in Longyearbyen (14th -19th January 2020). Travel expenses to these events will be covered by SIOS.

Evaluation criteria

- Scientific excellence;
- Relevance to SIOS;
- Optimisation of the Observing System;
- Innovation;
- Adherence to eligibility criteria outlined above.

Details on the evaluation process may be found in the document 'Guidance for applicants to SESS report contributions' on the web page for the call: https://sios-svalbard.org/SESSCall_2019.

Funding details

Funds for a total of up to 2.4 million NOK are available through this call (not including in-kind contributions). Each accepted contribution is funded with a maximum of 240 KNOK on request and any exceeding amount spent on the contribution is counted as in-kind contribution to SIOS. The contribution can also be entirely in-kind.

Applicants may request funding for salary for data analysis and writing, a workshop between authors, and support for developing procedures, protocols and harmonisation.

Application details

The deadline for this call is 15 May 2019, 16:00 CET. A decision is expected by the end of May 2019.

Proposals must be submitted electronically at

https://sios-svalbard.org/SESS_ApplicationForm_2019.

Contact:

SIOS director Heikki Lihavainen (<https://www.sios-svalbard.org/Staff#Director>)