



## Process for proposing new SIOS Core Data Variables

This document outlines the process of proposing new variables to be added to the set of SIOS Core Data (SCD).

The SCD Variables are a dynamic set of variables, that are being continuously monitored in the Svalbard archipelago and the surrounding domains. The criteria for SIOS Core Data were defined by the Science Optimisation Advisory Group of SIOS and an associated task force. The criteria are based on standards of scientific excellence in the Earth System Science, in the SIOS 'legal' framework and the SIOS Data Policy.

The full SCD documentation can be accessed on the SIOS webpage:

[https://sios-svalbard.org/sites/sios-svalbard.org/files/common/CoreData\\_Documentation.pdf](https://sios-svalbard.org/sites/sios-svalbard.org/files/common/CoreData_Documentation.pdf)

### ***The Criteria for SIOS Core Data are the following:***

#### Scientific requirements

SIOS core data are essential in answering the Earth System Science questions defined in the SIOS infrastructure optimisation report, and further update in SESS reports.

#### Data availability

SIOS core data should be available through the SIOS Data Management System (SDMS). SIOS core data candidates should be available as soon as possible and at latest one year after data collection.

#### Collecting commitment

For SIOS core data there should be a more than 5-year commitment from the providing institute to maintain the measurement and to make the data available through SDMS.

## How to propose new inclusions to the SCD variables set

Proposals should be sent as pdf to [mail@sios-svalbard.org](mailto:mail@sios-svalbard.org) and the Scientific Integration and Data Officer ([ilkka.matero@sios-svalbard.org](mailto:ilkka.matero@sios-svalbard.org)). Proposed inclusions must follow the Criteria for SIOS Core Data outlined on the previous page, and the proposal text must include a description of the following points:

- Background – Reasoning for including this/these variables in the SCD set?
- What datasets are available, or can be made available for these variables?
- Continuity of the datasets – the datasets should be ideally continuously or regularly monitored, with a commitment to make this data available for at least 5 years forward from the time of proposal.
- Description of the datasets, how they are observed/produced and processed.
- If the datasets are not currently findable through the SIOS Data Management System, how will this be done?
- Which repository will the datasets be published if the data have not yet been published?
- Are there other relevant datasets for these variables?
- Are these variables a part of another set of “Essential Variables” such as the Essential Climate Variables as defined by The Global Climate Observing System (GCOS) or Essential Ocean Variables as defined by The Global Ocean Observing System?
- Contact details for the proposing person / entity.

In case there are questions or you would like support with some aspect of the proposal process, get in touch with the Scientific Integration and Data Officer at SIOS ([ilkka.matero@sios-svalbard.org](mailto:ilkka.matero@sios-svalbard.org))