

The State of Environmental Science in Svalbard – synthesis of recommendations

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The State of Environmental Science in Svalbard (SESS) is an annual report produced by the Svalbard Integrated Arctic Earth Observing System (SIOS). It summarises the state of current knowledge of key Earth System Science parameters in and around the Norwegian High Arctic archipelago of Svalbard. The SESS report outlines the work that has been done in the previous years within the SIOS cooperation to optimise the observing system and recommends research and infrastructure priorities for the following years.

The report contains information about the long-term monitoring data that form the core of the SIOS observing system. SIOS promotes scientific innovation and considers cooperation across nations and disciplines as an important means. By improving access to new and existing monitoring data, prioritising investment in new research infrastructure and strengthening collaboration, SIOS will use the SESS report to promote innovative solutions for answering the big questions in Earth System Science with data from Svalbard.

There are now four published SESS reports together with 169 recommendations, here we present the synthesis of recommendation from these reports to improve the observing system SIOS.