Arctic Observing Summit 2022 (AOS 2022)
30 March - 1 April 2022, Tromsø, Norway
AOS Themes and Working Groups

Arctic observing at the intersection of health, understanding, and resilience

A changing Arctic disrupts the environment from the local to the global scale. Rapid change threatens Indigenous livelihoods, communities, ecosystems, and the global climate system. The 2022 Arctic Observing Summit (https://assw.info/programme/aos2022) focuses on how sustained observations can contribute to well-being and better understanding of rapid Arctic change to build resilience and inform responses from the local to the global scale.

Five AOS working groups will explore specific aspects of this broader theme, identify action items and deliverables, and collaborate on shared goals for the summit:

Food Security: Continuing past work and ongoing discussions, the Food Security Working Group focuses on observing capacity and information needs at local scales, especially in the context of Indigenous community priorities, food security, community and ecosystem health.

Regional to Global Observing: The Arctic does not exist in isolation, and neither does Arctic Observing. The Global Observing Working Group brings together regional and global observing systems and networks to explore how Arctic observing systems can best complement and link to existing structures and build on their best practices and experience.

Data Sharing: The IASC-SAON Arctic Data Committee, and the broader Polar Data Community are advancing priorities such as enhancing data findability, access and usability, and deploying new data systems. These enhanced systems must serve a broad range of different users, including Indigenous Peoples of the Arctic, maximize the value of observations, and be sustained over time. Achieving these goals requires dialogue that includes all actors involved in Arctic observing and data systems design and implementation. AOS 2022 will act as a platform for interaction between data experts and practitioners and the observing community to advance data interoperability and equitable sharing priorities and solutions.

System Integration (SAON ROADS): Building off of the SAON Roadmap for Arctic Observing and Data Systems (ROADS) process and the outcomes of the 2020 AOS, the System Integration Working Group will solicit input into the ROADS process, grow participation, and work towards implementation. This WG will need to coordinate with the SAON ROADS Task Force on how to best utilize the AOS in this process.

Utility and Benefits: Observing systems aim to provide data that are relevant in decision making contexts, such as adaptation and mitigation planning or resource management. This Working Group will build on past work to explore frameworks, mechanisms, and good practice that help ensure utility and societal benefits associated with observations.

Impacts of COVID-19 on Indigenous Peoples of the Arctic, local communities and the research enterprise have highlighted the need for **Capacity Building** in support of sustained observations. This need has been recognized and called out at the AOS 2020 and the 3rd Arctic Science Ministerial in 2021. All Working Groups seek to leverage conversations in organizations like the Association for Polar Early Career Researchers (APECS), University of the Arctic and others to identify specific steps that can be taken to build capacity at the community level, increase resilience, and creates space for and supports participation of Indigenous Peoples in scientific research and observing relevant in policy and decision-making contexts.