**SAON CON Task**

***Title:*** INTAROS Integrated Arctic Observation System under H2020

***Description:***

INTAROS is the is a Horizon2020 project awarded under EU call for Blue Growth and led by the Nansen Environmental and Remote Sensing Center. INTAROS is one of four projects included in EU´s efforts for increased focus on the Arctic and is an important contribution to the implementation of EU´s Arctic Strategy during the next five years (2016-2021). INTAROS brings together 49 partner organizations in 20 different countries in Europe, North America and Asia. The project will combine existing distributed data repositories with the new observations gathered and provide tools for data discovery, aggregation, analysis and visualization. A seem-less information platform will facilitate easy access for users and stakeholders for a better understanding of the environmental changes in the Arctic. INTAROS will also install new and dedicated instrumentation to measure physical, chemical, biological and ecological parameters for the atmosphere, ocean, cryosphere, and terrestrial environment.

Four INTAROS work packages are of a particular interest for SAON CON activities:

* **WP2 Exploitation of existing observing systems**, led by Roberta Pirazzini (FMI) and David Gustafsson, (SMHI), focused on assessing existing observing system components, identifying gaps as well as preparing existing repositories for integration into the iAOS platform build under WP5.
* **WP3 Enhancement of multi-disciplinary in situ observing systems**, led by Agnieszka B. Möller (IOPAN) and Peter Voss (GEUS), with main focus on using an innovative combination of mature and new instruments and sensors for integration with and extension of existing observatories.
* **WP4 Community-based observing programs**, led by Finn Danielsen (NORDECO) and Lisbeth Iversen (NERSC) and focused on inclusion of community based observing programs into iAOS. A particular focus is on engagement of the local communities to participate in the development of iAOS
* **WP5 Data integration and management**, led by Pedro Goncalves (TERRADUE) and Torill Hamre, (NERSC) with main goal to build the iAOS platform and ingest the new INTAROS data into existing data repositories to be accessible from the iAOS. The iAOS platform will facilitate seamless access to multidisciplinary data, scalable allocation of data storage and computer power for integrative data processing and analysis.

The main aim of SAON CON Task should be to review and advise the INTAROS work on exploitation and integration of data and information from existing observing networks community-based observing programs (e.g. by facilitating information flow between CON inventories and INTAROS WP2/WP4 activities, contributing to and reviewing relevant INTAROS deliverables, and contributing to development of the roadmap for future sustained Arctic observing system). SAON CON should also contribute with review/advice on requirements for existing and new observations with regard to INTAROS observatories in WP3 and assessment of technologies implemented under INTAROS in terms of data delivery according to requirements. SAON CON (together with SAON ADC) should also play advisory role for development the iAOS platform under WP5.

Another pat of this task should involve finding out how SAON inventory work and activities on defining the best practices for SAON network can capitalize on INTAROS funded activities in WP2/WP4 (for inventories) and WP3/WP4 (for best practices for network design and management).

***When:***

Mainly during the INTAROS period (2016-2021) but perhaps also during the follow-up years when the iAOS implemented under INTAROS will contribute to future implementation of a Sustainable Arctic Observing System. More intensive during the first 3 years of INTAROS when WP2/WP3/WP4 will be implemented.

***Who:***

SAON CON members with links to INTAROS.

Leaders of INTAROS WPs relevant for CON activities.

***Effort:***

Contribution to INTAROS deliverables in WP2, WP3 and WP4 (review/advice).

Participation in INTAROS activities focused on exploitation of existing inventories, bringing in CON expertize in large-scale inventory work.

Advice on implementation of the SAON CON best practices for the management and operation of INTAROS networks.

Contribution to the dialog between different stakeholders groups and INTAROS observing community/networks.

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***Price:***

Costs of participation of SAON CON members (lead) in INTAROS Annual Assemblies and perhaps also more specific meetings focused on INTAROS activities relevant for CON.

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***Lead:***

Agnieszka (or other CON member with close links to INTAROS)