

Preparing the Final INTAROS Synthesis report

Deliverable D1.11

Introduction
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INTAROS result areas

Results are obtained within

- Extensive field work with collection of new data
- Development/improvement of observing sensors and platforms
- Support to long-term observing programmes
- Strengthening of Community-Based monitoring
- Demonstrate use of data in application studies
- A common data catalogue for all data from the project
- Data services and access to data repositories
- Education and outreach activities
- Strengthening international collaboration



WP1: Requirements and strategy for Pan-Arctic Observing Systems

Objectives and achievements (condensed)

- Review and update requirements for Arctic observing systems
- Developed collaboration with institutions, projects and programmes working with Arctic observing on national, European and Pan-Arctic level
- Strengthen European participation in Arctic observing networks
- Establish links to various stakeholder groups
- Collaborate with local communities and indigenous groups
- Formulate data management and governance framework
- Prepare a Roadmap for sustainable Arctic observing systems

Overview of deliverables

Work package	Effort in p-m	Completed deliverables	Remaining deliverables
WP1: Requirements and strategy for Pan-Arctic Observing Systems	56	9	D1.10: Roadmap for sustainable Arctic Obs. Systems D1.11: Final synthesis report D1.12: Collaboration with Arctic shipping operators
WP2: Exploitation of existing observing systems	271	12	none
WP3: Enhancement of multidiscipl. in situ observing systems	329	15	D3.16: Synthesis and technical recommendations for implementation of in situ observing systems
WP4: Community-based observing	43	4	none
WP5: Data integration	127	13	none
WP6: Applications studies	327	23	D6.19: Synthesis of application studies towards stakeholders
WP7: Dissemination and outreach	58	16	none
WP8: Project management	60	9	D8.10: Strategy on intellectual property exploitation



Points to be addressed in the Final Synthesis report

1. Objective and Tasks
2. Main achievements with reference to objectives/tasks
3. Expected impact - for the WP as a whole
4. Challenges
5. Recommendations - > input to Roadmap document

Suggested size of the report

- Summary
- WP1: 3 pages
- WP2: 6 pages
- WP3: 8 pages
- WP4: 4 pages
- WP5: 4 pages
- WP6: 8 pages
- WP7: 3 pages
- Total: ca. 36 pages

Collaboration with USA, Canada and Russia

- Partners from USA and Canada have contributed to INTAROS through field work, equipment and data collection in the Arctic Ocean and Baffin Bay
- Collaboration has resulted in new projects with USA and Canada (CAATEX, UAK)
- INTAROS partners have been active in Arctic Science Summit Week, Arctic Observing Summit, SAON (Sustainable Arctic Observing Networks) and Arctic Data Committee.
- Collaboration with All Russian Research Institute for Hydro-meteorological Information (RIHMI-WDC) resulted in improved access to Russian data through the INTAROS data catalogue
- PEEEX network contributes to improve the Russian Arctic-boreal in situ observing stations and collaboration with the international community

Collaboration with China, Japan and South Korea

- RAD CAS - Institute of Remote Sensing and Digital Earth – Chinese Academy of Science contributed with the MARIS-INTAROS project, a parallel project with focus on providing satellite and sea ice data. Facilitate for data exchange, signed an MoU.
- PRIC and NMEFC contributed to INTAROS with sea ice data from the CHINARE expeditions
- National Institute of Polar Research (Japan): collaboration on Arctic research in several disciplines through the national ArCS programme and the bi-annual polar conferences – ISAR. Member of Evaluation Board
- Korean Polar Research Institute: signed MoU, collaboration on expeditions with icebreaker Araon, exchange visits
- INTAROS organised sessions at Polar conferences in Shanghai, Tokyo and Busan from 2017-2019

Collaboration with Arctic shipping operators

- Ships in the Arctic can be important to support scientists in deployment and recovery of instruments and platforms for data collection
- Ships in the Arctic are also an important stakeholder group because they need improved monitoring and forecasting services for safe operations
- NERSC and partners have participated in several research cruises with Norwegian Coast Guard vessel KV Svalbard
- NIVA has long-term collaboration with cargo vessel Norbjørn operating a Ferrybox between Tromsø and Svalbard
- Collaboration with Hurtigruten vessel “Roald Amundsen” which operates a Ferrybox in different regions in Arctic and Antarctica
- New collaboration is established with “Le Commandant Charcot”, a French tourist vessel which will conduct regular cruises and include participation from scientists

Collaboration

- On global level: Global Climate Observing System, etc.
- On Pan-Arctic level: USA, Canada, Russia, China, Japan, Korea
- On European level: Countries, programmes, projects
- On national level: programmes and projects
- Community-based observing programmes
- Collaboration with specific stakeholder groups (e.g. Arctic shipping)

Data management and governance framework

- The Data Management (D1.8) plan provides guidelines for how to organise and store data collected in the project in order to be compliant with the FAIR principles.
- The plan provides a template for planning data management from the start of data collection
- The plan recommends standards for metadata and data to be used by the INTAROS partners
- The plan provides a metadata template for time series of ocean mooring data
- The plan gives recommendations for data repositories for longterm storage