

WP2 – Station Managers' Forum in INTERACT III



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Aims of WP2

The aim of the INTERACT's Station Manager Forum (SMF) is to foster a culture of cooperation between stations and with scientific communities, industries, local communities and infrastructures in other regions.

Specifically, the objectives are to:

- A. Innovate** station management to better support excellent research and monitoring and to collect, exchange and refine information needed for operating INTERACT stations as one advanced infrastructure.
- B. Support** excellent science and innovation addressing INTERACT's Societal Challenges (SC) by interfacing with JRA's and TA/RA/VA activities.
- C. Integrate** new partner stations, their activities and data in the existing advanced community of INTERACT stations.
- D. Promote** cooperation on infrastructure management and safety with Antarctic, alpine, atmospheric and marine communities.



Tasks in WP2

Task 2.0: Operate the Station Managers' Forum (UCPH)

Task 2.1: The unpredictable Arctic – WP4 (AU)

Task 2.2: Transport and communication – WP5 (AWI)

Task 2.3: Making station data and publications widely available – WP6 (UCPH)

Task 2.4: Educating local communities and decision makers – WP7 (UCPH)

Task 2.5: Cleaner Arctic – WP8 (Lead: AU)

Task 2.6: The Arctic Resort – WP9 (Lead: UKRI)



Reporting of WP2

Workpackage 2 is a large workpackage:

Stations involved: 89

Partners in workpackage: 64

Tasks: 6 (16 sub-tasks)

Budget for 2020-23: c. 2 mio EURO

Deliverables: 13

Milestones: 24

We can therefore, due to time limitations, not go into details with all the work currently being done within the workpackage. In this presentation, we will focus on what we find the most important. However, the PowerPoint is more or less comprehensive, so if you need further details, you can download it from the INTERACT homepage after the General Assembly.



Progress

Task 2.0 Operate the Station Managers' Forum (UCPH)

SMF meetings, publication updates, seminars, INETRACT GIS, etc.

- **Four SMF's have been held (M2.1-3).**
- **Five seminars of relevance to station managers have been held (M2.6-10).** *We are planning to arrange two-four more 'bonus' seminars.*
- **Workshop with participation of the marine and the atmospheric research infrastructure communities has been held (M2.11).** *A supplementary workshop will as a 'bonus' be held at ASSW2022 with participation of INTERACT, FARO, ARICE and EPB.*
- **INTERACT Station Catalogue updated.** *INTERACT Images of Arctic Science published, INTERACT Communication and Navigation Handbook (M2.14) and INTERACT Reducing the Environmental Impact of Arctic Fieldwork are published as INTERACT II product. We are planning to publish two more 'bonus products', i.e. INTERACT Reducing the Environmental Impacts of Arctic Research Stations and INTERACT Arctic Fieldwork Safety Manual.*
- **INTERACT GIS improved with new and more user friendly user interface, incl. a thematic map interface (D2.1).**



Progress

Task 2.1 The unpredictable Arctic – WP4 (AU)

Contribute to method development, test implementation, provide observations on extreme events.

- **Identification of extreme event types to be used in test monitoring programmes submitted for publication (in review).**
- Development of test monitoring programmes for extreme events is in progress. AMAP's protocols ready. CAFF/CBMP recommendations drafted.
- We are considering to publish a pocket guide on how to report extreme events and a pocket guide book on how to report rapid biodiversity change as 'bonus product'.



Progress

Task 2.2 Transport and communication – WP5 (AWI)

Arctic Council science cooperation agreement, communication and positioning systems, reduction of CO₂ emissions from travel.

- **Internet platform concerning rules, regulations and permit needs (for each arctic country) of relevance to scientists planning fieldwork in arctic countries launched (D2.6).**
- A survey to identify bottlenecks for arctic cross-border science cooperation is planned for SMF IV.
- A session concerning field communication and navigation has been held at SMF II (M2.14).
- *The 'INTERACT Communication and Navigation Guidebook' published as a 'bonus product'.*
- **APECS working group has produced the first draft of 'INTERACT Reducing the CO₂ Emission from Arctic Science' guidebook' has been established. Review is in progress.**



Progress

Task 2.3 Making station data and publications widely available – WP6 (UCPH)

Seminars on state of the art monitoring, scientific network standards, repository for selected climate variables.

- AMAP contaminant monitoring seminar held in March 2021 (**M2.15**). One more seminar will be held early in 2023.
- **INTERACT GIS is being prepared to include a repository for selected climate variables for each INTERACT Station. Selection of parameters of relevance in process.**
- Photos for use in machine learning delivered by station managers to WP6 (**M2.17**).
- INTERACT Station Manager Forum is participating in SAON Polar Observing Assets Working Group, contributing to standard metadata for polar observing assets and data sharing (D2.8).
- Fruitful coordination across workpackages in INTERACT Data Team established by WP3 to secure harmonization of data standards across INTERACT and with international standards.



Progress

Task 2.4 Educating local communities and decision makers – WP7 (UCPH)

Courses on community based monitoring, 'Open House' days, course on how to communicate with decision makers and the use of press releases.

- Fortunately, Milestones/Deliverable are planned late in INTERACT III (Months 25, 31, 40) due to the COVID situation making courses and 'Open House' arrangements in local communities difficult.
- A course on community based monitoring of local relevance for schools and/or high schools is under preparation to be held near at least four research stations during 2022 (depending on COVID situation).
- **An 'Open House' thematic day to be held on at least ten research stations is under preparation and planned to be held in during 2022 (depending on COVID situation).**
- **A seminar on how to communicate with decision makers and use of press releases is to be held at SMF IV (M2.21).**



Progress

Task 2.5 Cleaner Arctic – WP8 (Lead: AU)

Explore ways to reduce pollution and emissions from research stations, Field test implementation of plastic monitoring programme.

- Survey on Pollution Screening Activities at INTERACT Stations has been carried through by AMAP.
- 'INTERACT Reducing the Environmental Impacts of Arctic Fieldwork' published as a 'bonus product'.
- 'INTERACT Reducing the Environmental Impact of Arctic Research Stations' almost ready for publication as a 'bonus product'.
- Guidebook with recommendation on how to reduce CO₂ emission in arctic science is in preparation (D2.7).
- Survey on energy use and sources, plastic types and usage, and waste handling at INTERACT research stations will be initiated during SMF IV (M2.22).



Progress

Task 2.6 The Arctic Resort – WP9 (Lead: UKRI)

Assess tourism potential near INTERACT stations, how to communicate with tourists, input to guidelines for tourist operators.

- **Evaluation of tourism potential at INTERACT Stations has been accomplished (M2.24).**
- **A survey among station managers concerning tourism at/near research stations has been carried through.**
- **A draft 'INTERACT Station Specific Guidelines' for cruise ship operators has been produced by AECO.**
- **Session to get input for pocket guide on how to handle tourism at or near INTERACT stations is planned for SMF IV.**



Progress - Deliverables

D2.1 INTERACT GIS with new features (Month 22)

D2.2 Updated digital Station Catalogue integrated in INTERACT GIS (Month 28)

D2.3 Web-editions of updated 'Best Practices of Station Management' (Month 35)

D2.4 Web-editions of updated 'INTERACT Fieldwork Planning Handbook' (Month 48)

D2.5 Updated 'INTERACT Minimum Monitoring Programme' (Month 48)

D2.6 Guide on research permit systems for all arctic countries on INTERACT website (Month 14)

D2.7 Pocket guide on how to reduce CO2 emissions in Arctic science (Month 26)

D2.8 Pocket guide on metadata standards for scientific networks (Month 29)

D2.9 Repository with selected data from INTERACT stations integrated in INTERACT GIS (Month 44)

D2.10 Checklist for environmentally friendly stations (Month 36)

D2.11 Pocket guide on how to reduce plastic consumption and pollution (Month 40)

D2.12 Pocket guide on how to handle effects of tourism at research stations and in adjacent local communities (Month 30)

D2.13 Pocket guide for tourist on how to behave around research station, incl. their study areas and local communities (Month 30)

Progress - Milestones

Milestone	Milestone name	Deadline (Month)
M2.1-5	SMF Meeting	3, 13, 25, 37, 48
M2.6-9	Seminars on themes chosen by station managers	3, 13, 25, 37
M2.10	Technical staff workshop	25
M2.11	Workshop on best practices of research infrastructure management with participation of other communities	13
M2.12	Extreme event monitoring field test implemented at minimum four stations	36
M2.13	Rapid biodiversity change monitoring field test implemented at minimum four stations	42
M2.14	Session at SMF on communication and positioning systems	13
M2.15-16	Seminars on state-of-the-art methods/technologies for environmental monitoring	25,37
M2.17	Selection of photos from different stations provided to WP6	12
M2.18	Courses on community based monitoring of local relevance held at schools and/or high schools near four stations	25
M2.19-20	'Open House' thematic days on respectively invasive species and plastic at minimum ten research stations	31,40
M2.21	Course for station managers on improvement of communication to decision makers	40



Progress - Milestones

Milestone	Milestone name	Deadline (Month)
M2.22	Survey on resource use and disposal (incl. plastic) at research stations presented at SMF	37
M2.23	Plastic monitoring programme implemented at four stations	30
M2.24	Evaluation of tourism potential at INTERACT stations	12

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Requirements from others

WP2 is working together with all other Workpackages, all station managers and a huge amount of external stakeholders.

We are extremely grateful for the enthusiasm put into the cooperation by everyone.

A modest wish: Please reply before deadline on e-mails from us and please help us to secure that as many research stations as possible participate in surveys, questionnaires etc. That is crucial for the quality of our work.



Ways forward

Work is in progress in accordance with the contract and we are on schedule in relation to all tasks, deliverables and milestones.

We prioritize to published our products as real books, and with the help of our cooperation partners we have been able to produce many more than we are obliged to. We hope to keep on doing that.

We might experience delays (due to COVID) with ‘Open House arrangements at research stations’ (M2.19) and ‘Courses on Community Based Monitoring at schools / high schools’ (M2.18). It does not make sense, if people are not allowed to participate due to COVID restrictions.



Thank you

