



Morten Rasch<sup>1</sup>, Elmer Topp-Jørgensen<sup>2</sup>,  
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# Welcome and introduction

INTERACT III, SMF 3

[www.eu-interact.org](http://www.eu-interact.org)



INTERACT III, Station Manager Forum 3, 27 May 2021

# Agenda

14:00 – 14:10: Opening of SMF - *Morten Rasch / Elmer Topp-Jørgensen*

14:10 – 14:30: Activities since last meeting – *Morten Rasch / Elmer Topp-Jørgensen*

14:30 – 14:40: Arctic Safety Manual, pitching the idea – *Morten Rasch*

14:40 – 14:50: INTERACT GIS – *Elmer Topp-Jørgensen*

14:50 – 15:00: Coffee break (with pictures from INTERACT Coffee Table Book)



# Agenda

15:00 – 15:35: Arctic permit systems and barriers to arctic science: Presentation of Arctic permit systems (process, contents and future efforts) - *Elmer Topp-Jørgensen / Svenja Holste (APECS)*

Input for future survey on barriers to arctic science (presentation of draft survey contents) - *Joseph Nolan & Renuka Badhe (EPB) / Josefine Lenz & Svenja Holste (APECS)*

15:35 – 15:50: Station presentation: *Summit station* - *Jennifer Mercer (US-NSF)*

15:50 – 16:05: Break (with pictures from INTERACT Coffee Table Book)





# Agenda

16:05 – 16:20: Pocket guide CO2 Reduction in Arctic Science (presentation and discussion of contents) - *Svenja Holste (APECS)*

16:20 – 16:40: Discrimination, sexual harassment and bullying – *Syndonia Brett-Harte (Toolik Field Station)*

16:40 – 16:50: Technical staff workshop 2021/2022 – establishing a coordination team - *Elmer Topp-Jørgensen / Morten Rasch*

16:50 – 17:30: Open Floor

17:30 – 17:40: Wrap up of meeting – *Morten Rasch / Elmer Topp-Jørgensen*





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# Activities since last meeting

INTERACT III, SMF 3

[www.eu-interact.org](http://www.eu-interact.org)



INTERACT III, Station Manager Forum 3, 27 May 2021



What we miss the most !!!

Looking so much forward to see  
you in IRL at INTERACT SMF 4





# Photo competition and 'Images of Arctic Science'



Photo competition  
Categories:  
Number of photographers: 100  
Number of pictures: 800

Thank you so much to all of you  
for supporting this initiative ☺

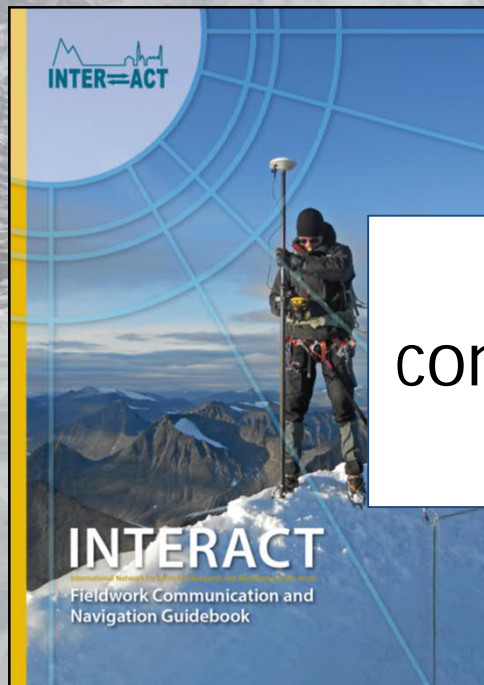
Coffee table book  
Editors: Carsten Egevang, Morten Rasch,  
Elmer Topp-Jørgensen  
Authors: Morten Rasch and the photographers  
Chapters: 9  
Photos: 107  
Pages: 182



# Handbooks

Overall idea with all these books: Making INTERACT the place to seek information concerning fieldwork in the arctic and run of arctic and northern alpine research stations

## Fieldwork Communication and Navigation Guidebook



Status:  
Ready for publication

Cooperation:  
An APECS and  
INTERACT product

Editors:  
Andrea Schneider,  
Morten Rasch, Elmer  
Topp-Jørgensen, Marie  
Frost Arndal

Pages: 80

## Reducing the Environmental Impacts of Arctic Fieldwork



Status:  
Ready for publication

Authors:  
Laura Lønstrup  
Fendrup, Morten  
h, Elmer Topp-  
ensen, Marie Frost  
al

ors:  
ten Rasch, Elmer  
o-Jørgensen, Marie  
t Arndal

Pages: 45



Thank you so much to all contributors for supporting this initiative 😊

### Upcoming products:

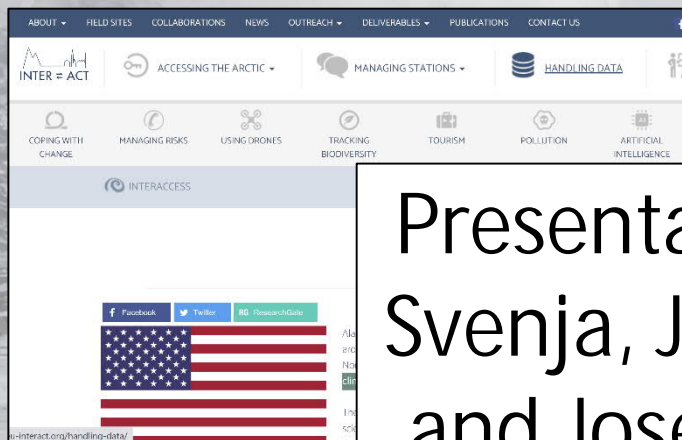
*INTERACT Reducing the Environmental Impact of Arctic Research Stations.* Status: Ready for layout  
*INTERACT Reducing the CO2 Emission from Arctic Science.* Status: APECS author group established





# Arctic Permit Systems

Overall idea with all this website: Making INTERACT the place to seek information concerning permits of relevance to fieldwork in the Arctic.



Made in cooperation with APECS. Country in Faroe Islands, Finland, Norway, Russia and Sweden.

Presentation by Elmer, Svenja, Joseph, Renuka and Josefine followed by discussion  
15:00 - 15:35

- People
- Instrumentation (import/export)
- Sample collection
- Transport and communication
- Extreme weather

Safety related permits

- Weapons
- Radio permits
- Regional/local level permits



# INTERACT GIS



The screenshot shows the INTERACT GIS website. At the top, there is a navigation bar with links for 'Stations', 'Research', 'Publications', 'Application', and 'About'. Below this is a large grid of 12 images showing various research stations and landscapes. To the right of the grid, there is a 'Welcome to INTERACT GIS' section with a brief description of the network and a list of services. At the bottom, there is a 'Useful links' section with links to 'GDPR', 'Copyright', 'Instructions', and 'Technical support'.

INTERACT GIS  
Explore stations and their science

LOGIN | SIGN UP

Stations Research Publications Application About

Welcome to INTERACT GIS

INTERACT GIS provides information about the more than 85 terrestrial research stations that are members of the [INTERACT](#) network. INTERACT stations are located in the Arctic and northern boreal and alpine areas.

INTERACT GIS provides four different types of web-based services:

1. Stations
2. Research
3. Publications
4. Application

description of the research stations (see 1. Stations)

Let's INTERACT

INTERACT GIS has been developed under the auspices of the [INTERACT](#) and [SITES](#) infrastructure projects, with particular contributions from the Swedish field stations at Abisko and Tarfala. It is tailored to fit INTERACT and SITES field-stations around the Arctic, but remains the [intellectual property of SLU](#).

© 2019 All rights reserved.

Useful links

- [GDPR](#)
- [Copyright](#)
- [Instructions](#)
- [Technical support](#)

Recent developments and plans ahead:

Restructuring of the system with focus on

Presentation by Elmer  
14:40 - 14:50

(map)  
Integration

Scientific networks and thematic maps features

Development of upload function for project metadata





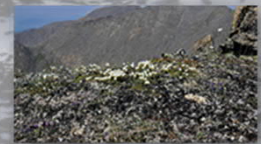
# Meetings, Workshops and Thematic Seminars

- INTERACT Data Team Meeting, 14 December 2020
- INTERACT Daily Management Group, 18 December 2020
- INTERACT Seminar on Sustainable Energy Solutions for Arctic Research Stations. 15 December 2020
- INTERACT Daily Management Group, 25 January 2021
- Coordination Meeting, EBP Action group on Environmental impact of Arctic Research and Logistics, 2 February 2021
- INTERACT Daily Management Group, 16 February 2021
- Coordination Meeting, IASC Action Group on Carbon Footprint, 18 February 2021
- Joint INTERACT-AMAP Workshop on Contaminant Monitoring and Waste Handling at INTERACT Stations, 10 March 2021
- Coordination Meeting, IASC Action Group on Carbon Footprint, 16 March 2021
- Coordination Meeting, EBP Action group on Environmental impact of Arctic Research and Logistics, 16 March 2021
- Workshop on International Access to Research Infrastructure in the Arctic, ASSW 2021, 23 March 2021
- INTERACT Daily Management Group, 25 March 2021
- Coordination Meeting, IASC Action Group on Carbon Footprint, 14 April 2021
- INTERACT Data Team Meeting, 19 April 2021
- Coordination Meeting, IASC Action Group on Carbon Footprint, 20 April 2021
- IASC Workshop on Carbon Footprints in the Arctic, 21 April 2021
- INTERACT Daily Management Group, 27 April 2021
- Polar Observing Assets Working Group, 13 May 2021
- INTERACT Daily Management Group, 20 May 2021



## Coordination with other workpackages

WP1 and 3: Data management and standards across INTERACT platforms via INTERACT Data Team  
WP4: Coordination meetings, later test implementation of recommendations  
WP5: Drafting survey on barriers to arctic science  
WP6: Info provided  
WP7: Launch of Permit System Platform  
WP8: Seminar and survey on contaminant monitoring  
WP9: Survey completed, draft guides for tourist operators and stations





# FARO, INTERACT, ARICE and APECS Workshop

## Workshop on International Access to Research Infrastructure in the Arctic

ASSW 2021, March 23, 2021 FARO, INTERACT, ARICE, APECS

Land group headed by INTERACT and marine group headed by ARICE

Purpose identify barriers and challenges in arctic science

Follow up actions by involved organisations 😊

### Recommendations

- Facilitating
- Securing a common direction in complex operations
- Lack of transparent permit systems
- Shipping and transport across national borders
- Funding gap between short-term and long-term funding
- Data management and access: Standardisation/harmonisation
- Environmental protection legislation and science needs

Marine minutes are pending

Joint workshop report expected later this year





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# Arctic Safety Manual – pitching the idea

INTERACT III, SMF 3

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# INTERACT handbooks

## Already published

- INTERACT Station Catalogue 2020
- INTERACT Research and Monitoring
- INTERACT Management Planning for Arctic and Northern Alpine Research Stations
- INTERACT Fieldwork Planning Handbook
- INTERACT Practical Field Guide
- INTERACT Communication and Navigation Handbook
- INTERACT Reducing the Environmental Impacts of Arctic Fieldwork

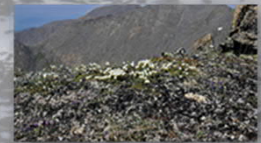
## Planned in INTERACT III

- INTERACT Reducing the Environmental Impact of Arctic Research Stations
- INTERACT Reducing the CO2 Emissions in Arctic Science
- INTERACT Metadata Standards for Scientific Networks
- INTERACT Reducing Plastic Consumption and pollution at Arctic Research Stations
- INTERACT Pocket Guide on Handling of Tourists at and near Arctic Research Stations
- INTERACT Pocket Guide for Tourists visiting Research Stations and their Surroundings



## Idea behind all these handbooks

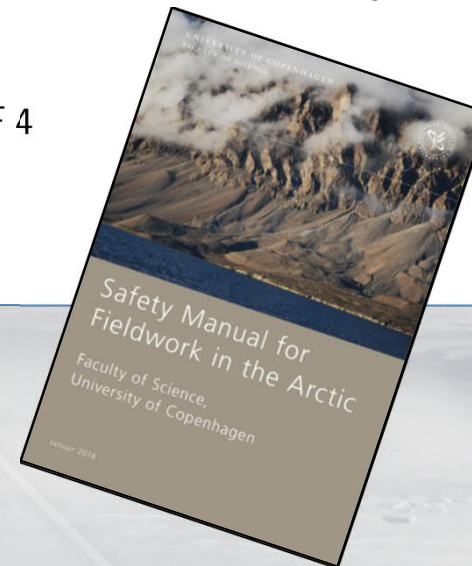
- Helping scientists with information of relevance to the arctic fieldwork and use of arctic and northern alpine research stations
- Helping station managers to improve their station management by using best practices developed in cooperation with other station managers
- Making it easier for station managers to produce station manuals with reference to widely accepted procedures
- Standardising procedures at arctic research stations to make it easier for scientists to understand and implement procedures in their activities
- INTERACT to set the international standards in relation to station management and fieldwork in the Arctic – strategically important





## New handbook suggestion Arctic Safety Manual

- University of Copenhagen has produced an Arctic Safety Manual to be used by their scientists in the field
- I have as leader of the UofC Arctic Safety Committee been the editor of this book covering all aspects of safety in relation to arctic fieldwork – a more thorough approach than in the Fieldwork Planning Handbook and the Practical Fieldguide
- I have been allowed to can use the manuscript as a start up of producing an INTERACT Arctic Safety Manual with input from all the INTERACT station managers
- The following process is suggested:
  - Circulation of UofC Arctic Safety Manual
  - Session concerning revisions on INTERACT III, SMF 4
  - Editing based on inputs
  - Circulation among station managers for review
  - Publication





Let's INTERACT

[www.eu-interact.org](http://www.eu-interact.org)



INTERACT III, Station Manager Forum 1, 5 – 6 February 2020, Bäckaskog slott, Sweden

