

APECS PROUDLY PRESENTS



 September 2021
Launch during Int. Polar Week 

JOSEFINE PROUDLY PRESENTS



Dr. Josefine Lenz
APECS Executive Director
since Nov 2020



Author's short biographies



Christel Hansen – University of Pretoria (South Africa)
Christel is a lecturer at the Department of Geography, Geoinformatics and Meteorology at the University of Pretoria, South Africa. She is a geomorphologist and GIS specialist, focusing on periglacial environments in the Antarctic and sub-Antarctic, as well as the high-altitude areas of mainland South Africa. Through her involvement in APECS, Christel has also helped organising numerous workshops, meetings and webinars.



Marta Moreno Ibáñez – University of Quebec in Montreal (Canada)
Marta is a PhD candidate in Earth and atmospheric sciences, and she is affiliated to the Centre for the Study and Simulation of Regional-Scale Climate (ESCCER). The aim of her research is to analyse the development mechanisms of polar lows. Marta has been actively involved in APECS as an Individual Council Member since 2019. She has coordinated two group reviews of the IPCC 6th Assessment report, organized by APECS, MRI, PAGES ECN, PYRN and YES5. She was a member of the Editorial Board of the State of Environmental Science in Svalbard report 2020 (Svalbard Integrated Arctic Earth Observing System 2021).



Rebecca Duncan – University Technology Sydney (Australia) and University Centre in Svalbard, Longyearbyen (Norway)
Rebecca is a PhD candidate at University Technology Sydney and UNIS Svalbard. Her research interest is the biological implications of sea-ice decline and climate change in the polar regions, in both terrestrial and marine environments. She is also interested in science communication, and through her roles in APECS, she has assisted in organising numerous workshops and conferences.



Priyanka Rajput – National Disaster Management Authority (India)
Priyanka is an environmentalist specialized in Hydro-Glaciology. Currently, she is working as a Consultant for Glacial Risks and Hazard Management at National Disaster Management Authority under the Government of India. Through APECS, Priyanka has worked on various projects. She has been a co-convener for organizing the SCAR 2020 workshop for APECS, and she is currently acting as a Council Co-chair for 2020-21 in APECS.



Charlie Hewitt – University of Leicester (United Kingdom)
Charlie is a PhD student in the Department of Geography, Geology and the Environment at the University of Leicester, UK. His PhD is about how machine learning can be used to improve path-network data and the OS footpath dataset. Charlie has been an individual council member within APECS since 2018, and has most recently been leading the APECS UArctic Congress Workshop project group.



Andrea Schneider – UiT The Arctic University of Norway, Tromsø (Norway)
Andrea is a paleo-geologist with a strong interest in permafrost research. She has terrestrial and marine fieldwork experience in the Arctic in summer and winter. Through APECS and INTERACT, Andrea has shared experiences and tips in three INTERACT fieldwork planning-related publications.

THE AUTHORS



Project Group led by
Dr. Andrea Schneider

ESSENTIAL IN REMOTE AREAS: SAVE COMMUNICATION & NAVIGATION

Contents	
About this guidebook	4
1 Importance of communication and navigation	5
Why is communication important? Why are good navigation practices important? Communication and navigation challenges at high latitudes	
2 Fieldwork communication	15
Before fieldwork During fieldwork After fieldwork	
3 Communication devices	23
What are your needs? Legal requirements and limitations Visual and sound signals Types of devices	
4 Navigation devices	55
Navigation basics Types of devices	
5 Recommendations for safe and effective fieldwork	71
Before going into the field In the field Future developments	
Resources and references	75
Appendix 1: Radio protocol and etiquette	78

2 Fieldwork communication



1 Importance of communication and navigation

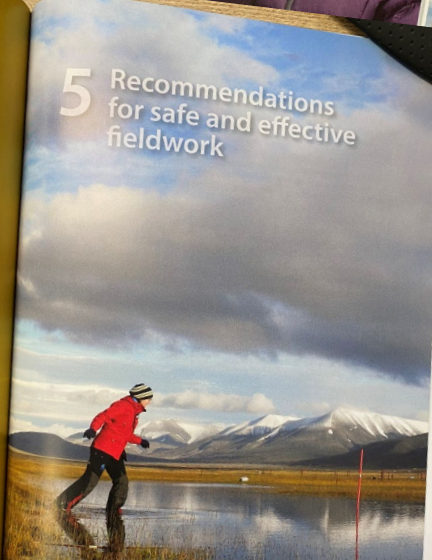
3 Communication devices



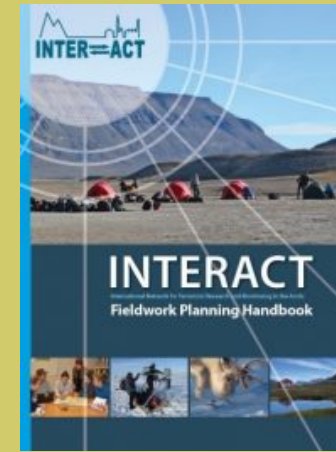
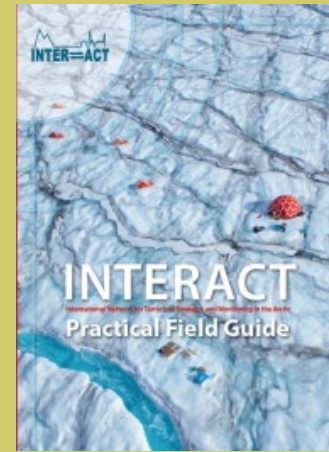
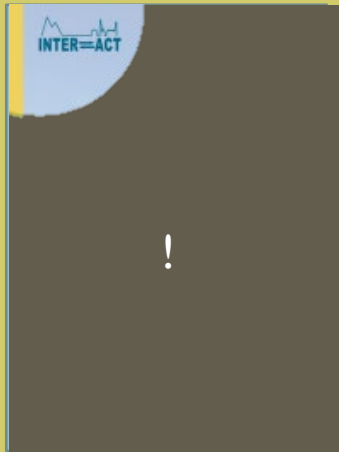
4 Navigation devices



5 Recommendations for safe and effective fieldwork



A COLLECTION OF
RECOMMENDATIONS &
HANDY TIPS



THANKS!