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# WP 5.4: Arctic Offshore Challenges



NORDRESS Annual Meeting  
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Rasmus Dahlberg  
COPE/Royal Danish Defence College



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# A Danish viking in Iceland



*Nauthólsvík, Reykjavík, two weeks ago...*



1. **Mapping** of offshore hazards and vulnerabilities in the Arctic.  
(Completed in 2016)
2. **Investigation** and **Evaluation** of existing modes of Organizational Learning and Knowledge Capturing from Search and Rescue Exercises in the Arctic.
3. **Investigating** existing modes of Imagining, Discovering and Reacting to Emerging Offshore Hazards and Vulnerabilities in the Arctic.
4. **Development** of a concept for Computer-Assisted Cross-Boundary Tabletop SAR Exercises in the Arctic.
5. A **Feasibility Study** of the establishment of an “International Rescue Hub” at the former US Naval Air Station in Keflavík, Iceland.  
(Completed in 2015)



**Task 2:** The first version of the research performed in this task (Antonelli et al., 2017) was presented in May, at the NEEDS2 conference in Copenhagen. The investigation and evaluation is designed as a study of the literature published in leading management and organization journals, as well as, major disaster and crisis management journals. An important insight from the first version was that the literature search strategy had to be redefined.

**Task 3:** Activities in 2017 had a dual focus. On the one hand we have focused on conceptual work dealing with the phenomenon of cold disaster, resulting in the acceptance of one peer-reviewed journal article titled: “Conceptualizing Cold Disasters: Disaster Risk Governance at the Arctic Edge”. On the other hand progress have been made with regard to our analysis of the empirical data collected during LIVEX16. So far this work has resulted in the publication of one peer-reviewed journal article (Dahlberg, 2017).



**Task 4:** During 2017 a different set-up for the activities in this task have been considered, as too little progress have been made so far. We have concluded that it is still expected that results obtained from task 2 and 3 will serve as input to this task, but in addition it has been decide to change the scope of the task to focus more using insights from analogue table top exercises as the basis the formulation of a requirements specification for future table-top exercises, both analogue and digitized



- Dahlberg, R. (2017) Who is in the center? A case study of a social network in an emergency management organization. International Journal of Emergency Services, vol. 6, no. 1, pp. 52-66.
- Lauta, K. C., Vendelø, M. T., Sørensen, B. R., & Dahlberg, R. (in press) Conceptualizing cold disasters: Disaster risk governance at the Arctic edge. International Journal of Disaster Risk Reduction.



- Antonelli, E., Frigotto, M. L., & Vendelø, M. T. (2017) Organizational learning from exercises and experiments – Preparing for accidents and disasters. Paper presented at 2<sup>nd</sup> Northern European Conference on Emergency and Disaster Studies (NEEDS2) Copenhagen, May 17<sup>th</sup> – 19<sup>th</sup> 2017.
- Dahlberg, R., & Vendelø, M. T. (2017) Making sense of signals. Paper presented at the 5<sup>th</sup> International Conference on Disaster Mngt. and Human Health, as well as at the 8<sup>th</sup> Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2017) Reykjavik, Iceland, August 23<sup>rd</sup> – 25<sup>th</sup> 2017.
- Cold Disasters: Risk and resilience in the Arctic, presentation by Rasmus Dahlberg at the IMPROVER workshop, London, Sep. 21



- **A course:** Crisis Management, has been developed for the Global Executive MBA program, Copenhagen Business School. In part the course draws on insights generated in NORDRESS, and it included presentations from Rasmus Dahlberg and Morten Thanning Vendelø





- **Task 2:** *Investigation and evaluation of existing modes organizational learning and knowledge capturing from Search and Rescue Exercises (SAREX) in the Arctic,* continues in 2018. Based on the experiences captured in 2017, a new research strategy has been devised and tested. It includes a far more detailed examination of the articles published in the journals included in the sample, and has been found to produce a more solid sample, leading to more solid research results. The work in task 2 will continue in 2018, and will most likely include the employment of either a research assistant or a post.doc to perform parts of the literature study



- **Task 3:** Exploration of the empirical data collected during LIVEX'16 will continue in 2018. In particular with a focus on further development the analysis of data and write up of academic papers. One paper is under review for the book series: *Case Studies in Disaster Response*. Another paper has been accepted for presentation at the European Colloquium of Organization Studies, which is the major European conference in the field of organization studies, and at the 10<sup>th</sup> International Process Organization Studies Symposium. Subsequently, the paper will be revised for submission to a major journal in the field of crisis management. Finally, we are in the process of securing access to another large SAREX in 2019.



**Task 4:** *Development of a concept for computer-assisted cross-boundary table-top SAR exercises in the Arctic.* In line with the changed scope of the task, now in part focusing more on using insights from analogue table top exercises, as the basis the formulation of a requirements specification for future table-top exercises, both analogue and digitized, we have so far undertaken one study of an exercise undertaken at the AECO workshop in Reykjavik, April 2018, and will look for more opportunities to study alike activities.



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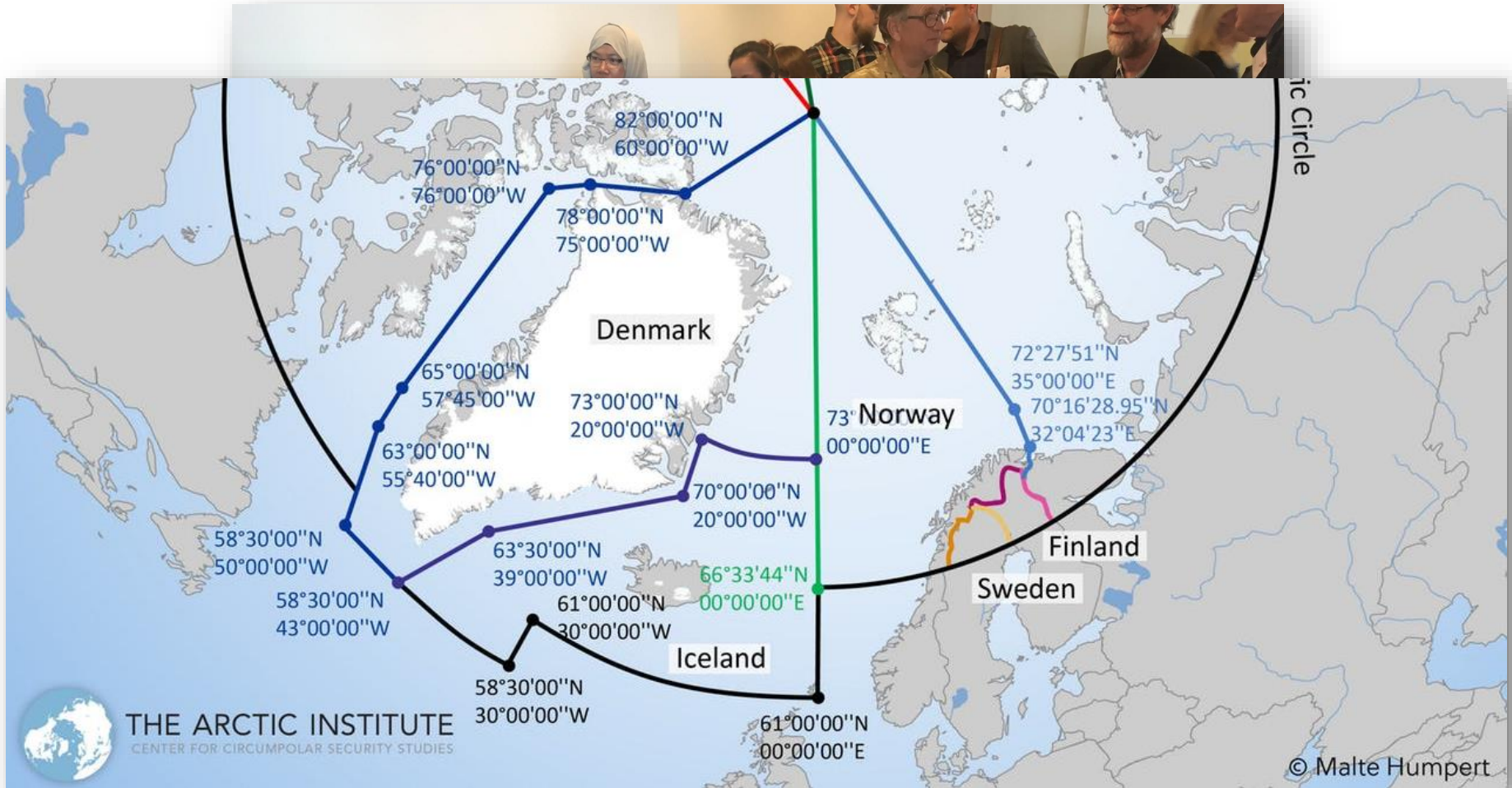
# SAR Exercise Design



*3rd Annual AECO/ICG workshop and TTX, Reykjavík, April 2018*



# From theory to practice





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**Thank you for the attention!**