

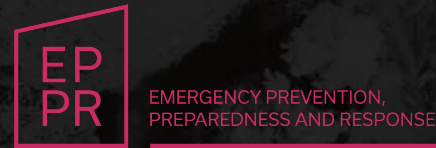
THE ROLE OF THE SEARCH AND RESCUE EXPERT GROUP

Emergency Prevention, Preparedness and
Response (EPPR) Working Group of the Arctic
Council

Benjamin Strong– Chair, EPPR SAR EG

November 16, 2021

PAME Arctic Shipping Best Practices Forum



IAMSAR MANUAL

- International Aeronautical and Maritime Search and Rescue Manual.
- Published by the UN (International Civil Aviation Organization and International Maritime Organization).
- The IAMSAR Manual consists of three volumes, which are published as a loose-leaf collection.
 - Volume I. Organization and Management
 - Volume II. Mission Co-ordination
 - Volume III. Mobile Facilities
- The IAMSAR Manual is the “how to” for SAR



EMERGENCY PREVENTION,
PREPAREDNESS AND RESPONSE

EPPR SEARCH & RESCUE EXPERT GROUP



- The SAR EG was established in 2016 to facilitate the implementation of the Agreement on Cooperation in Aeronautical and Maritime Search and Rescue in the Arctic.
- SAR EG identifies key lessons learned of Arctic incidents and exercises and communicates best practices and mitigation or remedial actions.
- Benjamin Strong (United States) Chairs the SAR EG, with Tore Hongset (Norway) as Vice Chair.



EMERGENCY PREVENTION,
PREPAREDNESS AND RESPONSE

AGREEMENT ON COOPERATION IN AERONAUTICAL AND MARITIME SEARCH AND RESCUE IN THE ARCTIC (ARCTIC SAR AGREEMENT)



- The Arctic SAR Agreement seeks to increase cooperation among Arctic countries to enhance readiness/response to search and rescue incidents in Arctic
- The SAR EG ensures implementation of the Arctic SAR Agreement by:
 - Collaborating with other bodies, fora, working groups and academia to compile, identify, analyze and disseminate pertinent recommendations and needs related to Arctic SAR issues.
 - Evaluating exercise and live incident reports for common themes identified in lessons learned and disseminating recommendations as appropriate.
 - Communicating key findings to EPPR for coordination within the Arctic Council and other relevant bodies.
 - Supporting different operational fora in their action-oriented efforts, including SAR exercises.



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SAR EG PROJECTS

- Validation of the IMO Polar Code Survival Time Requirement



Verify International Maritime Organization (IMO) Polar Code Survival Time Requirement

Mission Need: Improve long-term polar SAR and Mass Rescue Operations contingency planning.

2022-17

Objectives

- Use data analysis, and modeling/simulation approaches to investigate the IMO Polar Code survival time; provide recommendations for updates to CG-SAR.
- Estimate expected polar rescue time using past remote rescue operations and changes in polar traffic density.
- Produce a robust data set through mining data sources for remote/polar transits and remote rescue operations for use in mathematical modeling.
- Use the findings to conduct an analysis to evaluate and inform international standards and contingency planning.



Notes

- Conduct a consolidated data analysis of past remote rescue operation as captured in systems such as Automatic Identification System, Long-Range Identification & Tracking, and Automated Mutual-Assistance Vessel Rescue.
- Explore partnership opportunities with international organizations including Canadian Search and Rescue (SAR), Finnish Border Guard, IMO, U. Washington Polar Science Center, U. of the Arctic consortium, U.S. Geological Survey historic arctic rescue data, Arctic Council, RAND, Denmark, & Greenland.
- Leverage past and ongoing RDC efforts relating to polar and SAR operations.

Project Start: Oct 21

Research Past Findings from International Efforts Complete	Dec 21
Discover and Access Data Sources Complete	Apr 22
Data Analysis Complete	Sep 22
Verify IMO Polar Code Survival Time Requirement (Brief)	Nov 22 ★
Model Development Complete	Jun 23
Verify IMO Polar Code Survival Time Requirement (Report)	Sep 23 ★

Project Completion: Sep 23

Sponsor: CG-SAR

Stakeholder(s): D17, Center for Arctic Study and Policy, DHS ADAC, AREAs

RDC Research Lead:
Ms. Christine Mahoney

CG-926 Domain Lead:
Dr. David Wiesenhahn

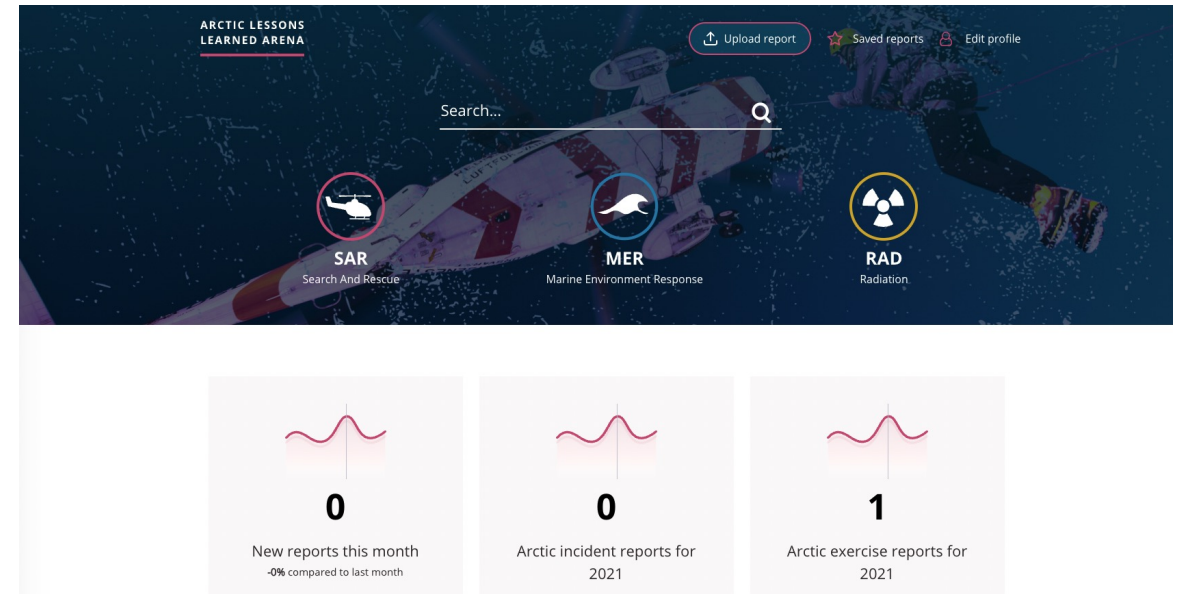
Anticipated Transition: Knowledge Product
Standards/Regulations



SAR EG PROJECTS



- Lessons Learned Arena (*a repository for exercise and incident after action reports*)



SAR EG PROJECTS



- Casualty Tracking Workshop
“Recommendation: Future exploration is required for standardization / compatibility of systems across organizations. Consider convening a Task Force (combined ACGF COWG and EPPR SAR EG) to explore various analog and digital technologies to standardize passenger/casualty tracking and make recommendations on implementation.”



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THANK YOU



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