



CAPARDUS - Capacity-building in Arctic standardization development

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Education material for use in capacity-building

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Authors: Stein Sandven, with contributions from the partners and the participants in the workshops

Version	DATE	CHANGE RECORDS	LEAD AUTHOR
1.0	14/07/2023	First version	Stein Sandven

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DISSEMINATION LEVEL		
PU	Public, fully open	X
CO	Confidential, restricted under conditions set out in Model Grant Agreement	
CI	Classified, information as referred to in Commission Decision 2001/844/EC	

EXECUTIVE SUMMARY

This deliverable provides an overview of material for education and training activities prepared for the project. The material consists of selected presentations given at workshops and conference sessions, instruction videos, interviews, a storymap and selected documents on standards, guidelines and practices. Many of the presentations, videos and interviews were provided by invited people from the local communities and their organisations. The project is grateful to all the presenters, listed in the following tables, who have given excellent insight into their activities and for sharing their presentations for further use in education and capacity-building.

All the material is accessible through hyperlinks and is stored at the project website (<https://capardus.nersc.no/>). The website will be maintained after the project has ended.

List of education material about CAPARDUS topics

Presentation slides

Topic	Title	Authors - presenters
CBM and Citizen Science and local knowledge	Indigenous Sentinels Network – A tool for CBM and Citizen Science (Aasiaat workshop Nov 2022)	Hannah-Marie Garcia
	Knowledge of and with Indigenous Peoples and Local Communities (22 Feb 2021)	Maria Tengö and Pernilla Malmer
	Inuit Circumpolar Council – ICC – working on an international protocol on Indigenous Knowledge (22 Feb 2021)	Kuupik Kleist
	Towards good practice in use of local and scientific knowledge in natural resource management (Aasiaat workshop Nov 2022)	Amalie Jessen
	CBM experiences and sharing of nest practices - How to sustain CBM systems (OBPS workshop Oct 2022)	F. Danielsen
	Present and future citizen science in Svalbard (Aug 2022)	M. Kjøie Poulsen
	Citizen science activities at UNIS (Aug. 2022)	Janne E. Søreide
Bayesian Belief Network	How to use Bayesian Belief Network in management of natural resources where local community knowledge is included (in Danish, Aasiaat workshop Nov 2022)	R. May and M.R. Nielsen
	Standards and practices for developing and using Bayesian Belief Network models to incorporate local knowledge and improve natural resource management practice in Greenland (Nuuk, May 2023)	M. R. Nielsen, R. May, B. Poppel and H. Melby
	The surBayes application to construct, learn and infer discrete Bayesian Belief Network models in a web-based rendering interface (online tool)	R. May
Cultural heritage/tourism in Svalbard	Cultural heritage in Svalbard – an overview (August 2022)	Anne- Cathrine Flyen
	NIKU's cultural heritage projects in Svalbard (February 2023)	Ionut Cristi Nicu
	Svalbard museum – informing about nature and culture (February 2023)	Hege Anita Eilertsen
	Svalbard tourism and safety (June 2023)	Ronny Brunvoll
Arctic safety	Arctic Safety Centre at UNIS (June 2023)	Martin Indreiten
	ARCSAR project : Arctic and North Atlantic Security and Emergency Preparedness Network (June 2023)	Mikel Dominiguez Cainzos

	Joint Rescue and Coordination Center (JRCC) Norway (June 2023)	Mikel Dominiguez Cainzos
	Natural hazards and Emergency Prevention, Preparedness and Response in Greenland	Uffe Jakobsen
Arctic Practice System	Ocean Best Practices System – introduction (Feb. 2019)	J. Pearlman and P. Simpson
	Arctic Best Practice – introduction (Feb 2020)	P.-L. Buttigieg, J. Pearlman, F. Pearlman, S. J. Khalsa, R. Garello
	Arctic Practice System for Svalbard (Aug 2022)	J. Pearlman , P. Simpson, N. Singh, S. J. Khalsa
	Arctic Practice System – Aasiaat – bilingual (Nov 2022)	S. Sandven, S. J. Khalsa and J. Pearlman
	Roadmap towards an APS - figure (June 2023)	P.-L. Buttigieg et al.
Data management	Several presentations from the Ocean Data Dojo workshop 15-16 December 2023 are available for training	Torill Hamre et al.

Videos

Topic	Title	Authors
Arctic Practice System	Walkthrough: How to submit a document to the Arctic Practices System (39 minutes video on Youtube) 2020	P.-L. Buttigieg
	Updated instruction video about OBPS repository , (29 min.) – Aug 2022	Pauline Simpson
CBM and use of local knowledge in Greenland	Interview with Karl Tobiassen, Minister of Fisheries and hunting in Greenland https://www.youtube.com/watch?v=Yj1J3n5Akb4	Søren Stach Nielsen (interviewer)
	Engaging fishermen in documenting resources: Lessons from PISUNA in Greenland (9 min video, comments by Pæviärak Jakobsen from Aasiaat)	Finn Danielsen
	Link to several short videos on Youtube about daily life in Greenland	Michael Køie Poulsen
CBM and Citizen Science in Svalbard	Interview with Hilde Fållun Strøm who is engaged in several citizen science projects in Svalbard (2.53 min) - February 2023	Stein Sandven (interviewer)
	Interview with Michael K. Poulsen about tourism and citizen science (1.45 min) and support to cultural heritage preservation in Svalbard (1.58 min) February 2023	Stein Sandven (interviewer)

Selected documents/websites on Training, Guidelines, Practices and Recommendations

Topic	Title	Authors
CBM work and use of local knowledge	Towards “good practice” in the use of local and scientific knowledge for informing natural resource management. Report from workshop in Aasiaat, Nov. 2022.	M. K. Poulsen, P. Jakobsen, S. S. Nielsen, E. Topp-Jørgensen, F. Danielsen
	Manaus Letter: Recommendations for the Participatory Monitoring of Biodiversity	Authors of Manaus Letter
	Local documentation and management of living resources: User Guide. [PISUNA Manual]	Finn Danielsen et al.
	Guidelines to training local CBM groups in Russia (English and Russian version)	Finn Danielsen
	Summary of good practices for CBM activities based on experience from Russia	Finn Danielsen
	Standards and practices for use of Local and Indigenous Knowledge in BBN models	Martin Reinhardt Nielsen, Roel May, Birger Poppel and Henrik Meilby
Tourists and Tourist operators	AECO guidelines for a number of tourist activities to be followed by its members organisations	AECO
	For Svalbard visitors and tourist guides: Svalbard Guidelines , Longyearbyen Community Guidelines , Svalbard Guide Training course	VisitSvalbard
	Arctic Nature Guide - one year program at UiT – Norway’s Arctic University	UiT
Arctic Safety	The Arctic Safety Centre at UNIS offers MSc course and other shorter courses on Arctic Safety	UNIS

Storymap

NINA produced a storymap with material provided by NERSC and NORDECO. The title is “Empowering local Arctic communities” and it presents a summary of work about citizen science and community-based monitoring. In Greenland the topic is on observing and managing natural resources in the sea and on land. In Svalbard the topics are tourism, cultural heritage, and citizen science activities. The work in Yakutia and Alaska is also addressed. The storymap is available at <https://storymaps.arcgis.com/stories/7890877a76e84e278af6de4067112353>

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Project partners:

No	Acronym	Participant Legal Name	Country
1	NERSC	STIFTELSEN NANSEN SENTER FOR MILJO OG FJERNMALING	NO
2	NORDECO	NORDISK FOND FOR MILJØ OG UDVIKLING	DK
3	Ilisimatusarfik	Ilisimatusarfik, Grønlands Universitet, University of Greenland	GL
4	AWI	Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung	DE
5	IEEE	IEEE France Section	FR
6	NINA	STIFTELSEN NORSK INSTITUTT FOR NATURFORSKNING NINA	NO
7	UCPH	KOBENHAVNS UNIVERSITET	DK
8	NIERSC	Scientific foundation Nansen International Environmental and Remote Sensing Centre	RU
9	ARC-HU	Arctic Research Centre, Hokkaido University	JP