

INTAROS Annual meeting week 7 – 11 January 2019

http://intaros.eu https://intaros.nersc.no Hosted by University of Bremen
Haus der Wissenschaft
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https://www.hausderwissenschaft.de/English.html

Monday 07 January 2019

1300-1500: WP2 Workshop: results of data assessment, data exploitation and modelling-

assessed gap analysis (separate agenda on page 6-7)

1500-1530: Coffee break

1530-1800: WP2 Workshop (cont.)

1800-1830: Ice Breaker

Tuesday 08 January 2019

0900-1030: WP2 workshop (cont.)

1030-1100: Coffee break

1100-1230: WP2 workshop (cont.)

1230-1400: Lunch (in near-by restaurants)

1400-1530: WP6: Application of iAOS towards stakeholders. Parallel planning meetings in

each of the tasks

1530-1600: Coffee break

1600-1615: The Ocean Best Practices system, presentation by Pier Luigi Buttigieg

1615-1800: Parallel planning meetings in the tasks (WP6 and WP3)

Wednesday 09 January 2019: General Assembly

0830-0900: Arrival

0900-0930: Introduction and WP1: Requirements and strategy for Pan-Arctic observing

systems, including outcome of the first period review: S. Sandven

0930-1030: WP2: Exploitation of existing observing systems: results and further work

• Overview: R. Pirazzini

• Atmosphere presentation: M. Tjernström

• Ocean and sea ice presentation: I. Schewe

• Terrestrial presentation: A. Ahlström

1030-1100: Coffee break

- 1100-1200: WP3: Enhancement of multidisciplinary in situ observing systems: results and further work
 - Introduction (A. Beszczynska-Möller)
 - Greenland (A. Ahlström)
 - North of Svalbard (T. Johannessen)
 - Fram Strait (T: Soltwedel)
 - Distributed ocean and sea ice systems (A. Beszczynska-Möller)
 - Distributed atmospheric and land systems (M. Göckede)
- 1200-1230: WP4: Enhance community-based observing programmes: results and further work (F. Danielsen/L. Iversen)
- 1230-1400: Lunch (in near-by restaurants)
- 1400-1500: WP5: Data integration and management: results and further work
 - iAOS cloud platform TDUE (Pedro) 15 min
 - Integration of data repositories AWI (Ingo) 15 min
 - iAOS Portal and Data catalogue NERSC (Torill) 15 min
 - Geostatistics service (+PR for training course) ARMINE (Fabien/Didier) 10 m
 - Conclusion TDUE (Pedro) 5 min
- 1500-1545: WP6: Applications of iAOS towards stakeholders: workplan for each task (G.Ottersen/M.Sejr)
- 1545-1600: Coffee break
- 1600-1630: WP7: Dissemination and outreach: results and further work (D.Zona/R. Higgins)
- 1630-1745: Presentations of INTAROS work in USA, Canada, Russia, China and Korea
 - Hajo Eicken, University of Alaska, USA (15 min)
 - Kim Juniper, Ocean Network Canada (15 min)
 - Nikolai Mikhailov, RIHMI-WDC, Russia (15 min)
 - Yubao Qiu, RADI, China (15 min)
 - Hyun-cheol Kim, KOPRI, Korea (15 min)
- 1745-1800: Arctic cluster project: APPLICATE (Luisa Cristini, AWI)
- 1900: Conference dinner in Atlantic Grand Hotel (non-hosted)

Thursday 10 January 2019

0900-1030: WP4 Workshop: Results and further work on CBM 0900-1030: WP5 Workshop: Practical data delivery to the project

1030-1100: Coffee break

1100-1230: WP7 Workshop – how to increase dissemination and outreach work

1230-1400: Lunch (in near-by restaurants)

1400-1530: Training session: RGeostats (see page 4)

1400-1530: Advisory Panel meeting

1530-1600: Coffee break

1600-1730: Training session: RGeostats 1600-1730: Advisory Panel meeting

Friday 11 January 2019

0900-1030: Training session: RGeostats 0900-1030: Steering Committee meeting

1030-1100: Coffee break

1100-1230: Training session: RGeostats (cont) 1100-1230: Steering Committee meeting (cont)

1230-1400: Lunch (in near-by restaurants) 1400-1600: Training session: RGeostats

1400-1600: Steering Committee meeting (cont)

Workshop on Data Delivery, Thursday 10 January 0900 – 1030

- From Data Collection to Long-Term Preservation and Use: Arctic data as part of a global system (NSIDC, Peter L. Pulsifer; NERSC, Torill Hamre) 10 min
- OpenDAP Use Cases how-to essentials (Terradue, Hervé Caumont) 10 min
- Example for querying a remote OpenDAP server for Sea-Ice data-collections (UB, Georg Heygster/ Terradue) 10 min
- Data integration via IMR data model (IMR, Arnfinn Morvik / ARMINES, Fabien Ors) 10 min
- Tools for data-mining in an online-repository (AWI/ PANGAEA, Ingo Schewe) 10 min
- Using Geoserver to provide gridded datasets to iAOS (FMI, Mwaba Hiltunen) 10 min
- Technical basic requirement for a successful integration of a remote data server to the iAOS (Pedro Goncalves) 10 min
- Discussion and Q&A session 20 min

WP7 Workshop on dissemination and outreach, Thursday 10 January 1100 - 1230

We strongly encourage all WP leaders and key contributors to participate in the WP7 workshop as it will shape how we promote the project going forward. The workshop aims to build on the work done on communications of field work 2018 in preparation for the coming year. During the WP7 workshop we will work in small groups to complete guided interactive exercises to improve "Messaging" and better identify appropriate messages for specific "Target audiences". We will also explore the topic of "Language", through a fun online game where participants will be asked to "translate" their scientific message into more simple language. Finally, we will discuss how different team members can contribute to dissemination, and help identify representatives from each workpackage to contribute regularly to social media and other dissemination."

RGeostats Workshop to review geostatistical tools for INTAROS

By Didier Renard and Fabien Ors, ARMINES

Dates:

Thursday 10th PM + Friday 11th (all day)

Purpose:

Train the INTAROS partners to use geostatistical techniques for processing their data products

Goal:

Understand geostatistical methods and perform hands-on exercises to get familiar with the geostatical tools available in the RGeostats package

Expected audience:

INTAROS WP6 partners and any additional interested partner

Expected outcome:

Provide INTAROS partners with a first experience to use RGeostats in their applications

Description:

Geostatistics has now gained momentum and is commonly applied in domains as diverse as Mining, Oil & Gas, Air, Water and Soil quality monitoring and many other fields. Geostatistics provides a powerful and flexible suite of procedures to analyze and map almost any type of spatial data. It also provides sound techniques for uncertainty evaluation and risk assessment. The team of Geostatistics of MINES ParisTech (formerly headed by Prof. G. Matheron) has decided to help disseminating the theory by producing the package <u>RGeostats</u> under the R platform.

This workshop gives an opportunity for INTAROS partners to review the main concepts of Geostatistics and put them in practice by applying RGeostats procedures on some geophysical datasets.

Outline:

- 1) The variogram and its extension (variogram cloud, variogram map) and the model selection (fitting procedures)
- 2) Estimation using an optimal linear predictor: kriging and its extensions (cross-validation). Neighborhood specification
- 3) Multivariate geostatistics. Bivariate statistics and multivariate spatial tools (cross-variogram). Linear model of coregionalization. Multivariate estimation technique (co-kriging) and its extensions (external drift concept)
- 4) Simulations. Spatial law and Gaussian random function (anamorphosis). Turning bands algorithm

WP2 workshop, 7-8 January 2018

Monday 7 January: presentations of partner's work in WP2

13:00-13:15 introduction by WP2 leaders (purpose of the workshop, and role of WP2 activities in INTAROS)

13:15-14:45 presentations on ocean and sea ice (chair: Ingo Schewe)

14:45:15:00 presentations on atmosphere (chair: Michael Tjernström)

15:00-15:30 coffee break

15:30-16:05 presentations on atmosphere (continue)

16:05-16:30 presentations on land and terrestrial cryosphere (chair: Andreas Ahlstrøm)

16:30-16:45 break

16:45-18:00 presentations on land and terrestrial cryosphere (continue)

Partner	Data	Data	Modelling-
rai tilei	assessment	exploitation	assessed gaps
Ocean and sea ice (AWI collects slides) 1 hr30min	ussessment	exploitation	assessed Babs
NERSC	5 min	5 min	
IMR	5 min	3 111111	
AWI	5 min	5 min	
IOPAN	3 min	2 min	
DTU	5 min	5 min	
AU	3 min	2 min	
IFREMER	5 min	5 min	
UB	5 min	5 min	
UNIS	3 min	2 min	
NIVA	5 min	5 min	
UHAM	3 111111	3 111111	10 min
Atmosphere (MISU collects slides) 50 min			10 111111
Atmosphere (Wiso collects slides) 50 mili			
MISU	5 min		
FMI	5 min	5 min	10 min
SMHI	5 min		
U Helsinki	3 min	2 min	
GEUS	5 min		
UIB	5 min		
UB		5 min	
Land and terrestrial cryosphere (GEUS collects the slides)			
1h 40min			
GEUS	5 min	5 min	
MPG	5 min		10 min
USFD	5 min		
GFZ	5 min	5 min	
UPM	5 min	5 min	
UIB	2 min	3 min	
DTU	5 min	5 min	
U Exeter	5 min		
FMI	5 min	5 min	
SMHI	5 min	5 min	
IGPAN	3 min	2 min	
U Slaski	3 min	2 min	

Tuesday 8 January:

- 9:00-9:30: Overview on Task 2.3: the **Data Catalogue** (Torill Hamre) and challenges related to data provision to iAOS: discussion (chair: Ingo Schewe)
- 9:30-10:15: content of D2.10 "Report on synthesis and recommendation from WP2": discussion with all theme leaders (chair: Michael Tjernström)
 - Synthesis by theme?
 - Gap between observers and data management
 - Stakeholders: role of DNV GL and EuroGOOS + atmospheric stakeholder?
 - Peer-reviewed paper(s), e.g. BAMS, Frontiers...?
- 10:15-10:45: content of D2.11 "Report on the maturity scores of existing observing systems in the Arctic": report on work done (Elena Zakharova) and discussion (chair: Roberta Pirazzini)

10:45-11:00: Coffee break

- 11:00-11:20: **ArcticMap**: complementary to / continuation of INTAROS WP2 (Torill Hamre, Hanne Sagen)
- 11:20 12:20: Discussion on the extension of the assessment outside the INTAROS consortium, and iAOS access/link to the main Arctic data repositories (chair: Roberta Pirazzini)
 - Discussion track:
 - Who should be contacted
 - o How to engage people in filling the questionnaires
 - o How do we handle the answers
 - IASOA: there is not any other way to get a large amount of Arctic atmospheric data into the iAOS than via IASOA. Report on the meeting in FMI with Taneil Uttal (Roberta Pirazzini)

12:20-12:30: Concluding remarks

12:30-14:00: lunch

Room plan: Monday 07 – Friday 11 January, with registered number of participants*

Room	Olbers Saal		Kleiner Saal		Sitzungsraum OG	
Capacity:	150 persons		50 persons		20 persons (tables), 35 (without tables)	
Monday PM			WP2 Workshop	45		
Tuesday AM					available	
Tuesday 1400-1530			WP6 task 6.2+6.8 meeting + task 6.4 meeting	18	WP6 task 6.3+6.7 meeting	23
1600-1615			Ocean Best Practices			
1615-1800			Other WP6 task meetings	27	WP3 task meeting Task 3.1 meeting	27
Wednesday AM	General	80	Coffee breaks			
Wednesday PM	Assembly		Coffee breaks			
Thursday 0900-1030	Practical data delivery workshop	56	Coffee breaks		WP4 workshop on results and next step	
1100-1230	WP7 workshop on dissemination	40			available	
Thursday 1400-1530	RGeostats training	27	Coffee breaks		Advisory panel	5+
Thursday 1600-1730	RGeostats training	27			Advisory panel	5+
Friday AM			Steering Committee	22	RGeostats training	21
Friday PM			Steering Committee	22	RGeostats training	21

^{*} Registered by 19 Dec.

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