

WP8: Clustering

Thomas Jung (AWI) & Jonny Day (ECMWF)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727862.

Call text: “Proposals should **include a work-package to cluster** with other projects financed under this topic and if possible also under other parts of Horizon 2020, and should build on projects funded under earlier calls. Links with projects resulting from the Belmont Forum call on climate predictability are also welcome.”

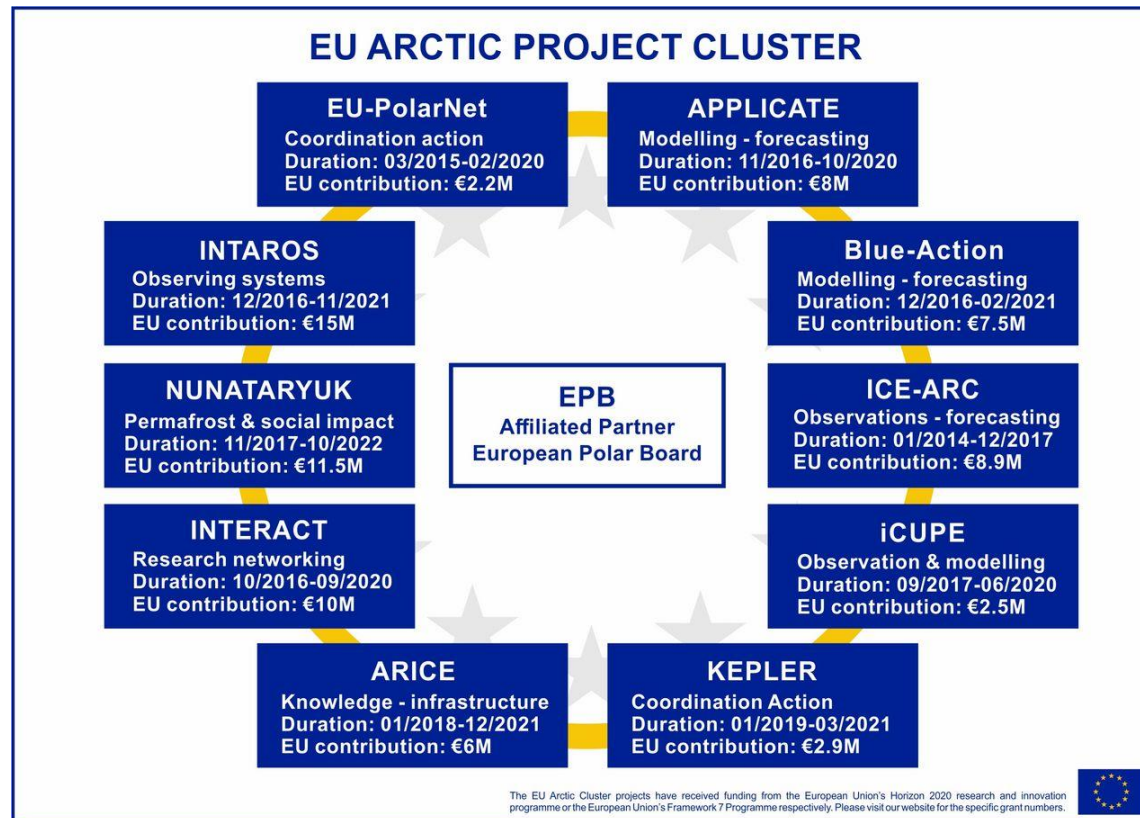


Exploit synergies and increase critical mass through coordination

- Coordinate APPLICATE activities with **EU projects**
- Coordinate APPLICATE activities with **international projects**
- Coordinate APPLICATE activities with the **USA and Canada**



The EU Arctic Cluster



- Non-scientific coordination
- Joint events
- 4 task teams
 - Communication
 - Stakeholder engagement
 - Data management
 - Capacity building



WP8 Highlights

The EU Arctic Cluster



Dragana Bojovic
@Dragili

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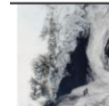
@martaterrado presenting EU Arctic Cluster
#arcticfrontiers2019 @applycate_eu



3:37 AM - 23 Jan 2019 from Tromsø, Norway



Coordination of research on Arctic-midlatitude linkages



Understanding the Causes and Consequences of Polar Amplification

About

JUNE 11, 2017 TO JUNE 16, 2017

Aspen CO

Description

The Arctic is warming twice as fast as the global average temperature. How these rapid changes will affect the Arctic region is critical to understand, though the significance of this understanding extends beyond the region since changes in the Arctic are increasingly understood to interact with the climate system of the Earth as a whole via atmospheric circulation and ocean currents. In particular, as climate change continues understanding how changes in the Arctic will affect weather and climate of the northern continents is a critical and timely question. Improved understanding of the mechanisms of teleconnection in these systems will shed light on how the Earth's climate system works as it departs further from the norms of the 20th century. The ability to model these changes has the potential to better describe future climate and its ecological and societal impacts as the century unfolds. To make progress, it is imperative to consider the larger context of the causes and consequences of polar amplification in the global climate system, and examine connections between the faster pace of warming in the polar regions compared to lower latitudes.

Participants

Workshop Documents

Public Lecture

Agenda & Presentations

WORKSHOP ORGANIZERS



Clara Deser

National Center for Atmospheric Research (NCAR)
Senior Scientist



James Screen

University of Exeter
Associate Professor in Climate Science



Doug Smith

Met Office Hadley Centre
Climate Prediction Scientist



Xiangdong Zhang

University of Alaska Fairbanks
Professor in climate and atmospheric sciences



Coordination of research on Arctic-midlatitude linkages

Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2018-82>

Manuscript under review for journal Geosci. Model Dev.

Discussion started: 6 June 2018

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The Polar Amplification Model Intercomparison Project (PAMIP) contribution to CMIP6: investigating the causes and consequences of polar amplification

Doug M. Smith¹, James A. Screen², Clara Deser³, Judah Cohen⁴, John C. Fyfe⁵, Javier García-Serrano^{6,7}, Thomas Jung^{8,9}, Vladimir Kattsov¹⁰, Daniela Matei¹¹, Rym Msadek¹², Yannick Peings¹³, Michael Sigmond⁵, Jinro Ukita¹⁴, Jin-Ho Yoon¹⁵, Xiangdong Zhang¹⁶



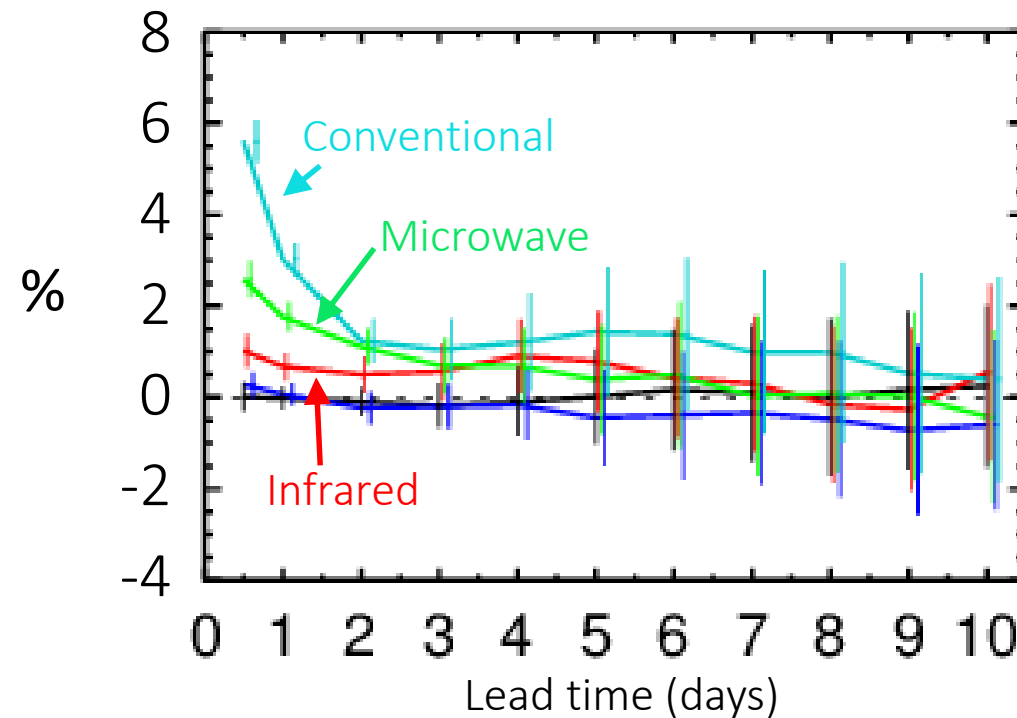
WP8 Highlights

Exploiting the Year of Polar Prediction



Exploiting the Year of Polar Prediction

Coordinated Observing System
Experiments (OSEs)



Exploiting the Year of Polar Prediction

The screenshot shows the HELMHOLTZ BLOGS website. The header includes a search bar and navigation links: HOME, OUR BLOGS +, BLOG RULES, IMPRINT | DATA PROTECTION, and ABOUT THE HELMHOLTZ BLOGS. The main banner features the text 'Polar Prediction Matters' and logos for 'YOPP YEAR OF POLAR PREDICTION' and 'AWI'. Below the banner, there is a breadcrumb trail 'Home > Polar Prediction Matters' and a RSS icon. The main content area displays a blog post titled 'Everyday Life in the Arctic' by Polar Prediction Matters, dated 26. November 2018, with 2 comments. The author information states: 'About the author: Senior researcher Tanja Joonas works at the Arctic Centre of the University of Lapland. Joonas's research interests focus on indigenous peoples' rights, especially the Sámi rights, the ILO Convention No. 169 and other relevant international instruments, as well as traditional ... [Read more]'. The category is 'Allgemein' and there are 2 comments. Below this, another blog post is partially visible, titled 'Automated Products for Forecasting Blizzard Conditions in the Arctic' by William Burrows, dated 8. November 2018, with 1 comment. The author information for this post states: 'William Burrows works in the Observation Based Research Section, Meteorological Research Division, of Environment and Climate Change Canada (ECCC). He has enjoyed a lengthy career with ECCC, first as an operational forecaster, then Instructor of Meteorology, and finally as a Research Scientist. For ... [Read more]'. On the right side, there is a sidebar with 'Polar Prediction Matters' navigation links (Home, About Polar Prediction Matters, About the Authors, Imprint of this Blog), 'Recent Comments' (listing comments by Marta Terrado and Lasse Rabenstein), and a 'Partners' section.

The 'Partners' section features two logos. The top logo is for 'APPLICATE.eu' with the tagline 'Advanced prediction in polar regions and beyond'. The bottom logo is for 'BLUE ACTION' with the tagline 'Arctic Impact on Weather and Climate'.



- Carry out PAMIP experiments, provide data to the scientific community and carry out first analyses ([PAMIP Workshop](#), Exeter, 25–27 June 2019)
- Contribute to [organizing key events](#) (e.g. EGU session and ECRA General Assembly)
- [Coordinate observing system experiments](#) for the two Arctic Special Observing Periods (Feb–Mar and Jul–Sep 2019) in the context of YOPP
- ... (to be determined in breakout groups)



WP8 Expected key outcomes

- Avoid duplication, exploit synergies and enhance critical mass
- Increase scientific excellence of APPLICATE, and maximize its impact
- Contribute to making international prediction and projection initiatives a success (e.g. YOPP, PAMIP, CMIP6)

