H2020 - Research and Innovation Action

APPLICATE

Advanced Prediction in Polar regions and beyond: Modelling, observing system design and LInkages associated with a Changing Arctic climaTE

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Deliverable No. 8.1

Invite coordinators of relevant projects to the YOPP planning meetings

Submission of Deliverable

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Table of Contents

EXECUTIVE SUMMARY

The main objective of WP8: Clustering is to collaborate with the European and international community to link with relevant projects in the Arctic and align the project activities with other similar initiatives. One project of high relevance to APPLICATE is the Polar Prediction Project (PPP)[1]. The PPP was initiated by the World Meteorological Organization (WMO) within the World Weather Research Programme (WWRP) with the aim to promote cooperative international research enabling development of improved weather and environmental prediction services for the polar regions, on time scales from hours to seasonal. The Year of Polar Prediction (YOPP) is the flagship activity within PPP. Planning Workshops on Arctic Observations and on the YOPP Modelling Component were held at ECMWF in Reading, UK, on 5-9 September 2016. Beside APPLICATE, two more H2020 projects were represented at the workshops: INTAROS, Blue-Action. Another important international initiative represented and discussed at these meetings was MOSAiC.

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[1] http://www.polarprediction.net/

1. Introduction

The main objective of WP8: Clustering is to collaborate with the European and international community to link with relevant projects in the Arctic and align the project activities with other similar initiatives.

One project of high relevance to APPLICATE is the Polar Prediction Project (PPP)[2]. The PPP was initiated by the World Meteorological Organization (WMO) within the World Weather Research Programme (WWRP) with the aim to promote cooperative international research enabling development of improved weather and environmental prediction services for the polar regions, on time scales from hours to seasonal. The Year of Polar Prediction (YOPP) is one of the flagship activities within PPP with the mission to enable a significant improvement in environmental prediction capabilities for the polar regions and beyond, by coordinating a period of intensive observing, modelling, verification, user-engagement and education activities.

In order to plan the various activities during YOPP, the Planning Workshop on Arctic Observation and the YOPP Modelling Component workshop were held at ECMWF in Reading, UK, on 5-9 September 2016. During the workshop, participants from operational centres, research institutes, universities, and initiatives from all over the world planned observational campaigns in the Arctic as well as various modelling activities such as forecasting experiments, dedicated reanalyses, or data denial experiments.

2. Invitations

The International Coordination Office (ICO) of the PPP circulated invitations to the coordinators of existing activities as well as those that had submitted related proposals. All the leading scientists of YOPP-endorsed projects[3] on Arctic observations and modelling were invited.

3. Participation

Beside APPLICATE, two more H2020 projects (INTAROS and Blue-Action) and an international expedition (MOSAiC) were presented during the workshop:

- **INTAROS (Stein Sandven)**

  The overall obective of the project is to develop an efficient integrated Arctic Observation System by extending, improving and unifying existing and evolving systems in the different regions of the Arctic.

- **Blue-Action (Steffen Olsen)**

  The main aim of the project is to actively improve our ability to describe, model, and predict Arctic climate change and its impact on Northern Hemisphere climate, weather and their extremes, and to deliver valuable climate services of societal benefit.

- **MOSAiC (Matthew Shupe)**

  The project, an international Arctic drift expedition will be the first year-round expedition into the central Arctic exploring the Arctic climate system. It will provide process-level,

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[2] http://www.polarprediction.net/
[3] Full list of projects available at: http://apps3.awi.de/YPP/endorsed

coupled system understanding of the Arctic environment to enable weather, climate and sea-ice forecasting models as well as to enhance observing systems and satellite products.

All the presentations highlighted the various projects' contributions to the YOPP and were followed by discussions on planning joint experimental modelling activities. The full meeting report can be downloaded from the PPP website[4].

4. Next steps

APPLICATE had a further opportunity to cluster with the Arctic community at the US CLIVAR working group on Arctic Change and Possible Influence on Mid-Latitude Climate and Weather workshop at Georgetown University in Washington, DC, on 1-3 February 2017 (see deliverable 8.5) where specific recommendations for the WP3 numerical experimentation plan were gathered.

4

http://www.polarprediction.net/fileadmin/user_upload/www.polarprediction.net/Home/Meetings/Reading_2016/YOPP_Planning_Reading_20160905_09_final_01.pdf