Update from YOPP International Coordination Office

Kirstin Werner and ICO
The Year of Polar Prediction

**Mission:** 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.
The Year of Polar Prediction

Launch of the YOPP Core Phase
15 May 2017

Preparation Phase
(2013-17)

Launch of PPP
(2011)

Core Phase
(2017-2019)

Consolidation Phase
(2019-2022)
The Year of Polar Prediction

Launch of PPP (2011)

Preparation Phase (2013-17)

Core Phase (2017-2019)

Consolidation Phase (2019-2022)
Webinar Series on YOPP YouTube

Webinar Series on YOPP

Consolidating YOPP

THE NEW CONSOLIDATION PHASE AND THE PLAN TO IMPLEMENT IT

June 24th, 9:00 UTC - AWI Webinar
June 24th, 15:00 UTC - ECMWF Webinar
June 25th, 15:00 UTC - ECCC Webinar

Du, irina sandu, Gregory Smith und 2 weitere
YOPP Core Phase – Selected Highlights

YOPP endorsement

85 projects endorsed by YOPP

YOPP-Endorsed Projects/Initiatives & Institutes as of 30 May 2019

Legend
- observations
- modelling
- social sciences
- project
- network / initiative
- funded or no funding needed
- partly funded
- not yet funded

Institutional Endorsement
- Met NO
- ARC-MFC
- GFI
- ECCC
- USNIC
**YOPP Core Phase – Selected Highlights**

**Special Observing Periods in the Arctic**

**Arctic winter:**
1 Feb – 31 Mar 2018

>1,930 extra radiosondes from 16 different sites involving 7 nations

Photo: André Gunnar Røsberg, Met.no

**Arctic summer:**
1 July – 30 September 2018

>3,330 extra Radiosondes from 15 different sites and from 6 YOPP-endorsed field campaigns involving 11 nations

Photo: Christopher Barrell

Photo: Tomash Petrovky, AARI
YOPP Core Phase – Selected Highlights

Antarctic Summer Special Observing Period
16 Nov 2018 – 15 Feb 2019

>1,900 extra radiosondes from more than 17 different sites involving at least 9 nations

Antarctic Special Observing Period extra radiosonde data (stored at BAS & NCEP & linked through YOPP Data Portal)

Photo: Nicolas Dettling

https://www.instagram.com/polarprediction/
YOPP Core Phase – Selected Highlights

YOPP model datasets

Newly coupled atmosphere–ice-ocean forecast CAPS available by ECCC (figure: Greg Smith/ECCC).

YOPP Data Portal https://yopp.met.no/
From left to right: New PPP SG members Taneil Uttal (photo: private), Machiel Lamers (photo: private) and Irina Sandu (photo: Simon Witter, ECMWF).
The YOPP Consolidation Phase

YOPP Implementation Plan – Version 3.0
- Revised section on YOPP Consolidation Phase
- To be published in July 2019
The YOPP Consolidation Phase – Elements

- Consolidating YOPP research
- From research to operations and services
- YOPP coordination
- Communication and outreach
- Creating a YOPP legacy
- Determining success
Consolidating YOPP Research

Research continues!

Examples:
• Analysis of YOPP model datasets
• YOPPsiteMIP
• Analysis of MOSAiC data (model enhancements)
• Verification
• Observing System Experiments (OSEs)
• Polar-lower latitude linkages
From Research to Operations and Services

- Exploit strong engagement of operational centres (and their networks) in YOPP
- Implement key outcomes in operations
- Make recommendations to polar stakeholders
- Collect feedback from users
- Special Services Periods (bringing providers and users together) (see Scott Carpentier’s presentation later today!)
YOPP Coordination

- Continued support through the ICO (renewed MoU between WMO and AWI)
- Continued coordination through PPP Steering Group
- Revised list of YOPP Task Teams
YOPP Coordination

Revised Task Teams:

- YOPP Sea Ice Prediction and Verification
- YOPP Numerical Experimentation
- YOPP Verification
- YOPP Atmospheric Processes
- YOPP Southern Hemisphere
- YOPP PPP-SERA
- YOPP Data
- YOPP Communication, Outreach and Education
- YOPP Final Summit
- YOPP Evaluation
Communication and Outreach

• Carry out targeted and focussed outreach
• Disseminate YOPP knowledge through conferences, meetings, social media ...
• Educate
Polar Prediction Matters

Collecting feedback from users, initiating dialogue

Giving the People What They Want: “Translating” Weather and Climate Information in the North American Arctic

14. May 2019
by Polar Prediction Matters
Leave a Comment

About the authors: Richard Thorman is a Climate Specialist with the Alaska Center for Climate Assessment and Policy at the University of Alaska in Fairbanks, USA, (see an earlier post by Rick here) and Gita Ljubicic is an Associate Professor in the Department of Geography and Environmental Studies...

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https://blogs.helmholtz.de/polarpredictionmatters/
Creating YOPP Legacy

• Create a legacy beyond 2022
• Discuss possible legacy activities at WMO
• Identify key partners that can carry on some of the work (coordination, science etc.)
• Ensure availability of key infrastructures beyond 2022 (e.g. polarprediction website and YOPP Data Portal)
• Hold YOPP Final Summit in 2022
Determining Success

• Determine criteria to measure success
• Identify YOPP success stories
• Evaluate overall success
• Determine areas where YOPP has failed
• Formulate recommendations for follow-on activities (what works well, and what can be done better next time?)
Summary

• Successful YOPP Core Phase in Arctic and Antarctic
• Planning for the YOPP Consolidation Phase now finalized
  ➢ YOPP Implementation Plan v3.0 (will be available in July 2019)
  ➢ Polarprediction.net
• 3 ½ more exciting years of YOPP ahead