

PPP

The WWRP Polar Prediction Project

(2013-2022)



Thomas Jung

Chair of the WWRP Polar Prediction Project

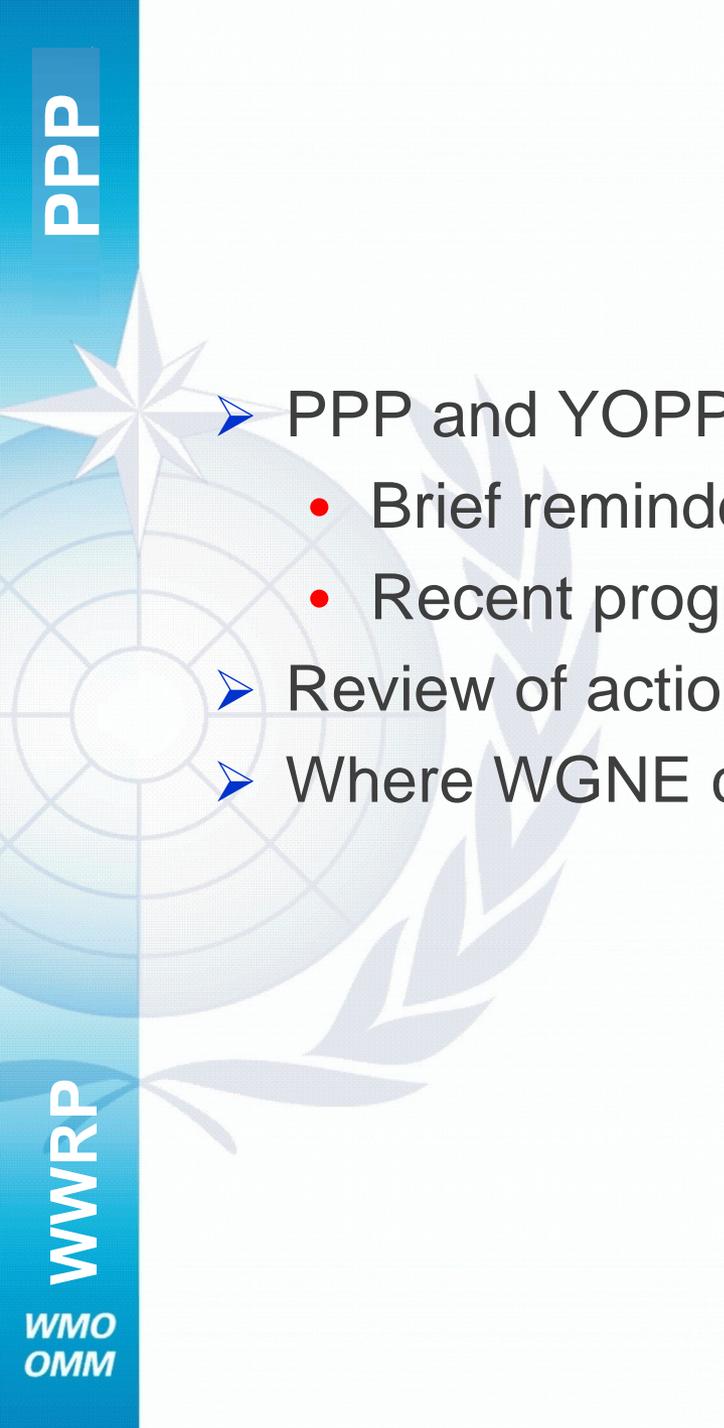
Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

24 March 2015

WWRP

WMO
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Outline

- 
- PPP and YOPP
 - Brief reminder
 - Recent progress
 - Review of actions from last year
 - Where WGNE could help?

PPP Mission Statement

Promote cooperative international research enabling development of improved weather and environmental prediction services for the polar regions, on time scales from hourly to seasonal

Why?

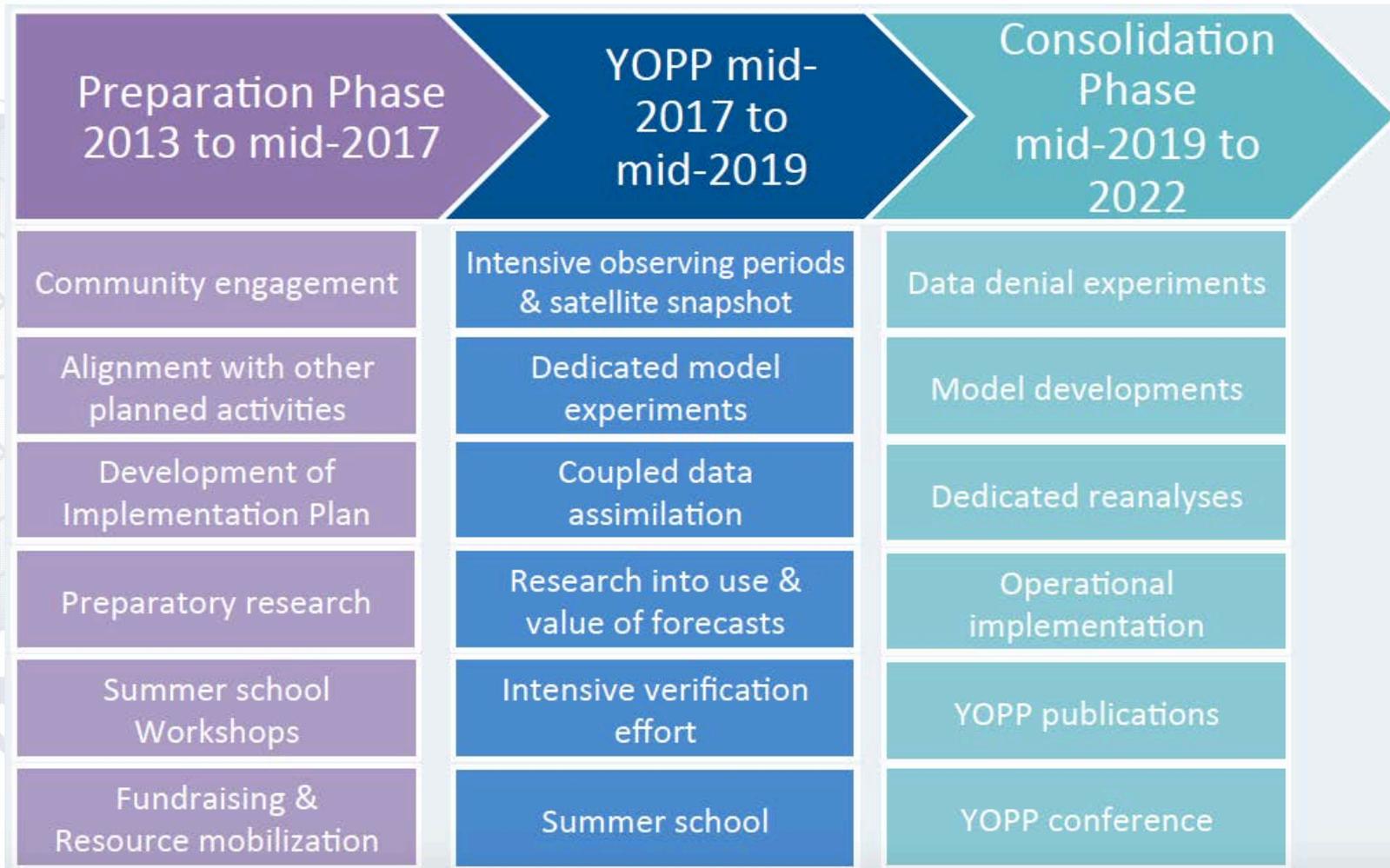
- Increasing demand for reliable prediction capabilities in polar regions and beyond
- Emphasis of previous international efforts on lower latitudes
- Significant gaps in the polar observing systems
- Need for enhanced coupled environmental prediction systems
- Potential for advanced predictions in middle latitudes
- Need for international collaboration

How?

- Steering group for developing plans and overseeing their implementation
- International Coordination Office (provide support, outreach etc.)
- Development of planning documents (e.g. implementation plans)
- Organisation of meetings
- Development of flagship activities (e.g. YOOP)
- Engagement with funding agencies
- Education and outreach

The Year of Polar Prediction—YOPP

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YOPP Summit

- When: 13-15 July 2015
- Where: WMO, Geneva, Switzerland
- Attendance: ≈ 180 people
- Purpose:
 - give an overview of the present level of planning,
 - identify stakeholder expectations and requirements,
 - develop priorities,
 - define intensive observing periods,
 - agree on the YOPP data legacy,
 - coordinate planned activities, and
 - gather formal commitments from parties interest in YOPP

YOPP Summit—Agenda

Monday 13 July 2015

1300 - 1325	Session I Welcome and Introduction Welcome from Secretary General Welcome from D/ARE Purpose of the Meeting Local Arrangements	Chair P. Ruti M. Jarraud D. Terblanche I. Jung P. Ruti	
1325 - 1400	Session II Background Towards the Global Integrated Polar Prediction System (GIPPS) YOPP Overview	Chair P. Ruti D. Grimes I. Jung	
1400 - 1600	Session III User Relevant-Aspects Stakeholders: Shipping Research/Logistics Arctic Residents Tourism Search & Rescue Societal and Economic Research and Applications Verification Panel Discussion	Chair N. Gordon	
1600 - 1630	COFFEE		
1630 - 1830	Session IV YOPP Observing Component The Global Observing System and its Evolution Extra Observations from Existing Platforms Buoys Ocean Observations Field Campaigns Voluntary Observing Ships Satellites Panel Discussion	Chair P. Bauer	
1830	Group Photo		
1835	ICEBREAKER		

YOPP Summit—Agenda

Tuesday 14 July 2015			
0830 - 1030	Session V YOPP Modelling Component Numerical experimentation Modelling Data assimilation Polar-lower latitude linkages Forecasting Panel Discussion	Chair R. Dole	
1030 - 1100	COFFEE		
1100 - 1200	Session VI YOPP Data Component YOPP Data Portal Data Journals: YOPP Special Issue PANGAEA - YOPP Data Archive GIS/WIS How-to for Adding Research Data Panel Discussion	Chair P. Chen	
1200 - 1315	Lunch		
1315 - 1345	Session VII - YOPP Education and Outreach Component YOPP Education Outreach	Chair J. Baeseman	
1345 - 1545	Session VIII Partner Initiatives Short presentations from YOPP partners	Chair J. Baeseman	
1545 - 1615	COFFEE		
1615 - 1800	Breakout Groups A Group 1: User Aspects & Verification Group 2: Observations Group 3: Modelling, Data Assimilation, Linkages and Prediction Group 4: Data Group 5: Education and Outreach Group 6: Funding	P. Doblas-Reyes I. Hentrew G. Smith I. Jung J. Baeseman P. Ruti	
Dinner	(non-complimentary)		

YOPP Summit—Agenda

Wednesday 15 July 2015

0830 - 1000	Breakout Groups B Wrap-up of Tuesday's Sessions and final discussion Preparation of Reports for Plenary Session		
1000 - 1030	COFFEE		
1030 - 1230	Session IX Final Plenary Session Breakout Groups' Reports & Final Discussion Statements by Funding Agencies Discussion Wrap-up and Next Steps	Chair T. Jung	

Recent activities (selected)

- PPP session at the WWOSC
- New mailing list for polar prediction (jointly with WCRP)
- Appointed new ICO director (Helge Goessling)
- YOPP Implementation Plan 1.0
- Workshop on polar-lower latitude linkages and their role in weather and climate prediction, Barcelona, 10-12 December 2014
- Announcement: WWRP/WCRP/Bolin Centre Polar Prediction School from 5-16 April 2016
- YOPP briefing of the Interagency Arctic Research Policy Committee (IARPC)
- Strong engagement with funding agencies

Actions from the WGNE-29

ACTION ITEM 4: Michael Ek to coordinate WGNE polar prediction and predictability activities on behalf of WGNE:

- a. Year of Polar Prediction plan to be reviewed by WGNE by end March 2014 (Mike);*
- b. WGNE representation at the PPP steering group meeting at WWOSC (Carolyn or Mike) and at the Barcelona workshop Dec 2014 (Francois Engelbrecht?);*
- c. Modelling centres to conduct systematic comparisons of analyses over Polar Regions (Jean-Noël Thépaut);*
- d. WGNE to provide advice on observation strategies for model development / verification during YOPP including the relative value of single point versus grid box approaches (Francois Bouyssel and Mike Ek).*

How WGNE could help (...and vice versa)

- WGNE representation at the YOPP Summit (short statement of WGNE's involvement)
- Provide advice
 - YOPP modelling component (numerical experimentation)
 - Polar-lower latitude linkages (experimental design)
 - observation strategies for model development/verification during YOPP including the relative value of single point versus grid box approaches
- Discussion on Transpose-CMIP and its possible link to YOPP
- Analysis uncertainty in polar regions (next steps, time line ...?)
- Role of coupled processes for prediction