



WWRP Polar Prediction Project (WWRP-PPP) YOPP Planning Modelling Component 7-9 September 2016

Wednesday 7 September

08:30-09:00 Registration (new arrivals only)

Welcome to the Joint Session Arctic Observation and The YOPP Modelling Component

09:00-09:05 PPP Thomas Jung (AWI)

09:05-09:10 WMO Paolo Ruti (WMO)

09:10-09:15 Local host and practical arrangements Peter Bauer (ECMWF)

09:15-09:20 Agenda and purpose of the joint session Thomas Jung (AWI)

Joint Session I

09:20-09:50 [YOPP Arctic Observations - overview and meeting summary](#) Ian Renfrew (Univ. East Anglia)

09:50-10:00 [The NAWDEX observing system](#) John Methven (Univ. Reading)

10:00-10:20 [Overview of YOPP Modelling Component](#) Peter Bauer (ECMWF)

10:20-10:30 [Group photo in the courtyard](#) (Picture: Simon Witter, ECMWF)

10:30-11:00 *Coffee break*

Joint Session II - brief overview of H2020 contributions to YOPP

11:00-11:10 [INTAROS](#) Stein Sandven (NERSC)

11:10-11:20 [APPLICATE](#) Thomas Jung (AWI)

11:20-11:30 [Blue-Action](#) Steffen Olsen (DMI)

11:30-11:50 [MOSAiC and YOPP](#) Matthew Shupe (NOAA)

Discussion

11:50-12:45 Discussion of predefined questions – e.g., Intensive Observing Periods (IOPs), use of operational forecast data for field campaigns, experience with GFDex (and T-NAWDEX, etc.), links with MOSAiC All

Wrap-up of Joint Session and closure

12:45-13:00 Summary and next steps Thomas Jung (AWI)

13:00-14:15 *Lunch break*

Opening YOPP Modelling Planning Meeting

14:15-14:20	Brief welcome	Thomas Jung (AWI) Peter Bauer (ECMWF)
-------------	---------------	--

Core Datasets

14:20-14:45	YOPP dataset and reanalysis by ECMWF	Peter Bauer (ECMWF)
14:45-15:05	Arctic system reanalysis v3	Ian Renfrew (Univ. East Anglia)
15:05-15:15	CBHAR: High-resolution reanalysis for the Pacific Arctic	Xiangdong Zhang (International Arctic Research Center)
15:15-15:45	<i>Coffee break</i>	

Supplementary Datasets and YOPP requirements

15:45-16:00	TIGGE: Global ensemble forecast data	Richard Swinbank (WMO consultant to PPP)
16:00-16:15	The S2S database	Frederic Vitart (ECMWF)
16:15-16:30	AMPS (Southern Hemisphere)	Dave Bromwich (remote; Byrd Polar and Climate Research Center)
16:30-16:50	GODAE OceanView (GOV) sea-ice forecast data and polar RCC	Greg Smith (Environment and Climate Change Canada)
16:50-17:10	Sea-ice/ocean reanalyses	Matthieu Chevallier (Météo-France)
17:00-17:25	Common/core set of model output fields	Richard Swinbank (WMO consultant to PPP)

YOPP-Endorsed Projects

17:25-17:45	Overview of endorsed projects and their modelling contributions	Helge Goessling (AWI)
-------------	---	-----------------------

Thursday 8 September

Experimental Modelling Activities I

09:00-09:20	APPLICATE modelling activities	Thomas Jung (AWI)
09:20-09:40	Blue-Action modelling activities	Steffen Olsen (DMI)
09:40-10:00	FAMOS: 2016-2019 plans and activities	Andrey Proshutinsky (Woods Hole Oceanographic Institution)
10:00-10:15	NAWDEX modelling activities	John Methven (Univ. Reading)
10:15-10:30	The Year of the Tropics - Midlatitude Interactions and Teleconnections (YTMIT)	Cristiana Stan (George Mason University)
10:30-11:00	<i>Coffee break</i>	

Experimental Modelling Activities II

11:00-11:15	Overview of process modelling	Gunilla Svensson (Univ Stockholm)
11:15-11:30	High-resolution modelling of storms: physical process studies	Xiangdong Zhang (International Arctic Research Center)
11:30-11:40	Lessons from multi-model experiments in the sea ice prediction network	Ed Blanchard (Univ Washington)
11:40-11:45	Southern Ocean Sea Ice Experiment	François Massonnet

11:45-12:00	Sea-ice drift and edge forecasts	Axel Schweiger (UnivWashington)
12:00-12:05	YOPP/MOSAIc drift forecast experiment	Helge Goessling (AWI)
12:05-12:15	Sea ice predictability studies at ECMWF	Steffen Tietsche (ECMWF)
12:15-12:30	Norway	Harald Schyberg (Met.No)
12:30-12:45	Canada	Greg Smith (Environment and Climate Change Canada)
12:45-13:00	France	Eric Bazile (Météo-France)
13:00-14:15	Lunch break	
Experimental Modelling Activities III		
14:15-14:30	USA	Bob Grumbine (NOAA)
14:30-14:45	Russia	Mikhail Tolstykh (Hydrometcentre of Russia)
14:45-15:00	UK	Ed Blockley (Met Office)
15:00-15:15	Japan	Jun Inoue (NIPR)
15:15-15:45	Coffee break	
Experimental Modelling Activities IV		
15:45-15:55	Sweden	Gunilla Svensson (UnivStockholm)
15:55-16:10	Arctic earth observation impact assessment	Frank Kauker (AWI)
Model Assessment		
16:10-16:30	Forecast verification	Thomas Haiden (ECMWF)
16:30-16:50	Forecast system diagnosis	Linus Magnusson (ECMWF)
16:50-17:00	Discussion	
Model Output Data		
17:00-17:15	YOPP data strategy	Thomas Jung (AWI)
17:15-17:30	YOPP legacy - data hubs and discussion of model data issues	Thomas Jung (AWI)

Friday 9 September

Experimental Modelling Activities - Discussion

Thematic Discussion of Proposed Modelling Activities and Gap Analysis
[discussion chairs for each theme are listed]

08:30-09:00	Coupled modelling and sea-ice	Greg Smith (Environment and Climate Change Canada)
09:00-09:30	Atmospheric modelling and process studies	Gunilla Svensson (UnivStockholm)
09:30-10:00	Predictability studies	Thomas Jung (AWI)
10:00-10:30	Observing system design	Peter Bauer (ECMWF)
10:30-11:00	Coffee break	
11:00-11:15	Teleconnections and linkages	Thomas Jung (AWI)

Future Plans		
11:15-11:25	Development of YOPP modelling plan	Richard Swinbank (WMO consultant to PPP)
11:25-11:45	Science legacy of YOPP - workshops, education and outreach, PPP-SERA aspects, special issues	Thomas Jung (AWI)
Wrap-up and closure		
11:45-12:00	Review meeting outcomes and actions	Thomas Jung (AWI)

List of Acronyms

AMPS	Antarctic Meteorological Prediction Systems
APPLICATE	Advanced Prediction in Polar regions and beyond: Modelling, observing system design and Linkages associated with a Changing Arctic climate
AWI	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (Germany)
CBHAR	Chukchi–Beaufort High-Resolution Atmospheric Reanalysis
DMI	Danish Meteorological Institute
ECMWF	European Centre for Medium-Range Weather Forecasts (United Kingdom)
FAMOS	Forum for Arctic Modeling and Observational Synthesis
GFDex	Greenland Flow Distortion experiment
GODAE	Global Ocean Data Assimilation Experiment
GOV	GODAE OceanView
INTAROS	Integrated Arctic Observing System project
IOP	Intensive Observing Period
MOSAIC	The Multidisciplinary drifting Observatory for the Study of Arctic Climate
NAWDEX	North Atlantic Waveguide and Downstream Impact Experiment
NERSC	Nansen Environmental and Remote Sensing Center
NIPR	National Institute of Polar Research (Japan)
NOAA	US National Oceanic and Atmospheric Administration
Polar RCC	Regional Climate Centres in Polar Regions
PPP	Polar Prediction Project
PPP-SERA	PPP subcommittee on Societal and Economic Research Applications
S2S	Subseasonal-to-Seasonal Prediction Project (WCRP program)
TIGGE	The International Grand Global Ensemble (previously “THORPEX Interactive Grand Global Ensemble”)
T-NAWDEX	THORPEX North Atlantic Waveguide and Downstream Impact Experiment
THORPEX	The Observing System Research and Predictability Experiment
WMO	World Meteorological Organization
WWRP	World Weather Research Programme
YTMIT	The Year of Tropics–Midlatitude Interactions and Teleconnections
YOPP	Year of Polar Prediction