



WWRP Polar Prediction Project (WWRP-PPP)

YOPP Planning Arctic Observations

5–7 September 2016

Monday 5 September

08:30-09:00 Registration

Welcome and purpose of the meeting

09:00-09:10	Welcome and opening	Peter Bauer (ECMWF) Helge Goessling (AWI) Paolo Ruti (WMO)
09:10-09:30	Agenda and purpose of the meeting	Ian Renfrew (Univ. East Anglia)

Overview Presentations

09:30-09:50	General update on YOPP	Helge Goessling (AWI)
09:50-10:10	Observational requirements from a forecasting perspective	Sarah Keeley (ECMWF)
10:10-10:30	The impacts of additional observations on Arctic weather and sea ice forecasts	Jun Inoue (NIPR)
10:30-11:00	<i>Coffee break</i>	
11:00-11:20	Contributions from WMO	Paolo Ruti (WMO)
11:20-11:40	The YOPP Arctic Observational Component	Ian Renfrew (Univ. East Anglia)

Contributing Projects I

11:40-12:10	Horizon2020 INTAROS	Stein Sandven (NERSC)
12:10-12:30	Horizon2020 APPLICATE	Peter Bauer (ECMWF)
12:30-12:50	(AC)³ - A German Transregional Collaborative Research Center on Arctic Amplification: Overview and possible contributions to YOPP	Manfred Wendisch (Univ. Leipzig)
12:50-13:00	Discussion	
13:00-14:15	<i>Lunch break</i>	

Contributing Projects II

14:15-14:35	MOSAiC and ICECAPS	Matthew Shupe (NOAA)
14:35-14:50	PEEX and PACES	Tuukka Petäjä (Univ. Helsinki) and Jo Browse (Univ. Exeter)
14:50-15:05	MEOPAR	Doug Wallace (Dalhousie Univ.)
15:05-15:15	The Iceland-Greenland Seas Project	Ian Renfrew (Univ. East Anglia)
15:15-15:45	<i>Coffee break</i>	

Contributing Projects III

15:45-16:05 [YOPP-Endorsed projects](#) Helge Goessling (AWI)

International Organizations, Committees, and Observational Plans I

16:05-16:20 [IASOA](#) Sandy Starkweather (NOAA)

16:20-17:00 [IABP, IICWG and PSTG](#) Pablo Clemente-Colon (NOAA)

17:00-17:05 [Argo](#) Birgit Klein, pp Helge Goessling (AWI)

17:05-18:00 Open discussion

18:00-19:30 *Drinks reception*

Tuesday 6 September

International Organizations, Committees, and Observational Plans II

09:00-09:15 [Overview of Group on Earth Observation \(GEO\) and the Cold Region Programme \(GEOCRI\)](#) Vanessa Aellen (GEO)

09:15-09:30 DAOS Carla Cardinali (remote; ECMWF)

National and Institutional Plans and Enhancements to the Operational Observing Network I

09:30-09:45 [Norway](#) Trond Iversen (Met.No)

09:45-10:00 [Russia - possible contributions of Roshydromet to YOPP](#) Alexander Makshtas (Arctic and Antarctic Research Institute)

10:00-10:20 [USA - NOAA, ONR, NSF Transportable Array Network, and Alaska long-term monitoring](#) Renee Tatusko (NOAA)

10:20-10:30 [Denmark and Greenland](#) Steffen Olsen, pp Helge Goessling (AWI)

10:30-11:00 *Coffee break*

National and Institutional Plans and Enhancements to the Operational Observing Network II

11:00-11:15 [Japan](#) Jun Inoue (NIPR)

11:15-11:30 [Korea](#) Joo-Hong Kim (Korean Polar Research Institute)

11:30-11:45 [China](#) Qizhen Sun (National Marine Environmental Forecasting Center)

11:45-12:00 [Finland - FMI activities](#) Timo Vihma (FMI)

12:00-12:15 [UK – Met Office field campaigns](#) Chawn Harlow (Met Office)

12:15-12:30 [Germany](#) Marion Maturilli (AWI)

12:30-12:45 [France - Météo-France](#) Guylaine Canut (Météo France)

12:45-13:00 [Iceland](#) Guðrún Nína Petersen (Icelandic Meteorological Office)

13:00-14:15 *Lunch break*

National and Institutional Plans and Enhancements to the Operational Observing Network III

14:15-14:30	Italy	Vito Vitale (ISAC CNR)
14:30-14:45	Faroe Islands and Blue-Action Observations	Karin Margretha Larsen (Faroe Marine Research Institute)
14:45-15:00	Canada	Stella Melo (remote; Environment and Climate Change Canada)
15:00-15:15	Sweden - ACAS	Michael Tjernström (remote; Bolin Centre for Climate Research/ Stockholm University)
15:15-15:45	<i>Coffee break</i>	

Special and Intensive Observing Periods

15:45-16:00	Introduction	Helge Goessling (AWI)
16:00-17:15	<p>Discussion</p> <ul style="list-style-type: none"> Fix timings of Intensive Observing Periods (IOPs) for official WMO letter asking for extra observations during YOPP Try to identify comprehensive reference stations before mid-2019 Discuss satellite aspects for input to upcoming PSTG meeting Miscellaneous 	Lead by: Ian Renfrew (Univ. East Anglia)
17:15-17:30	Wrap-up of YOPP Arctic Observations Planning Meeting	Ian Renfrew (Univ. East Anglia)

Wednesday 7 September

08:30-09:00	Registration	(new arrivals only)
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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	<i>Coffee break</i>	

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	<i>Lunch break</i>	

List of Acronyms

(AC) ³	Arctic Amplification: Climate Relevant Atmospheric and Surface Processes, and Feedback Mechanisms
ACAS	Arctic Climate Across Scales
APPLICATE	Advanced Prediction in Polar regions and beyond: Modelling, observing system design and Linkages associated with a Changing Arctic climate
Argo	Broad-scale global array of temperature/salinity profiling floats
AWI	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (Germany)
DAOS	Data Assimilation and Observing Strategies
DMI	Danish Meteorological Institute
ECMWF	European Centre for Medium-Range Weather Forecasts (United Kingdom)
FMI	Finnish Meteorological Institute
GEO	Group of Earth Observations
GEOCRI	GEO Cold Region Initiative
GFDex	Greenland Flow Distortion experiment
GRAB	Greenland surface albedo and radiation budget
IABP	International Arctic Buoy Programme
IAOOS	International Arctic Ocean Observing System
IASOA	International Arctic Systems for Observing the Atmosphere
ICECAPS	Integrated Characterization of Energy, Clouds, Atmospheric state, and Precipitation at Summit
IGP	The Iceland-Greenland seas Project
IICWG	International Ice Chart Working Group
INTAROS	Integrated Arctic Observing System project
IOP	Intensive Observing Period
ISAC CNR	Institute of Atmospheric Sciences and Climate, National Research Council of Italy
MEOPAR	Marine Environmental Observation Prediction and Response Network
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
NSF	US National Science Foundation
OASIS	Observations of the Arctic Stratosphere
ONR	Office of Naval Research (USA)
PPP	Polar Prediction Project
PSTG	Polar Space Task Group
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

YOPP

Year of Polar Prediction