

**WWRP POLAR PREDICTION PROJECT (WWRP-PPP)
YEAR OF POLAR PREDICTION (YOPP)
PLANNING MEETING (YPM)**

Agenda Item : 2.1

READING, UK
27-28 JUNE 2013

ENGLISH ONLY

PROVISIONAL AGENDA

1. OPENING [1400 - 1415]

- 1.1 Welcome from PPP-SG Chair, Thomas Jung
- 1.2 Purpose of the Meeting

2. ORGANIZATION OF THE MEETING [1415 - 1420]

- 2.1 Adoption of the Agenda
- 2.2 Working Arrangements

3. EXISTING YOPP PLANS [1420 - 1520]

- 3.1 Review existing proposals from PPP Implementation Plan [1420-1440]
- 3.2 Summarise outcome of Polar Prediction Workshop Discussions [1440-1450]
- 3.3 Discussion [1450 - 1520]

[Coffee break 1520 - 1540]

4. OBSERVATIONS [1540 - 1800]

- *What do we need observations for?*
 - *Initialization*
 - *Observing system design (data denial)*
 - *Model development (see second day)*
 - *Verification (see second day)*
- *Initialization*
 - *What are the key questions we want to investigate?*
 - *How much skill can be gained by closing the observational gaps in polar regions?*
 - *What are the gaps?*
 - *Where are we doing well?*
 - *Where should the emphasis be? (e.g., ice thickness, ice edge region)*
 - *Methods (e.g., data denial, OSSE, forecast error sensitivity)*
 - *How can real-time data availability be improved?*
 - *Are existing data inventories sufficient?*
 - *What are we adding to what was obtained during IPY?*
 - *What should the YOPP observing system look like? (priorities)*
 - *Existing observing system*
 - *Land based observatories*
 - *Automated weather stations*

- *Buoys*
 - *Balloons*
 - *Satellites*
 - *Commercial aircraft*
 - *Ships*
- *Additional observations/campaigns*
 - *Drifting stations*
 - *Buoys*
 - *Research aircraft*
 - *Helicopters*
 - *Drones*
 - *Research vessels*
 - *Voluntary observing ships*
 - *Balloons*
- *What do we need to observe?*
 - *Parameters*
 - *Phenomena*
- *Model development*
 - *Discuss on day 2*
 - *Also process understanding*
- *Verification*
 - *Anything specific?*
 - *Discuss on day 2*

[JOINT DINNER – 1900]

DAY TWO – NOTE 0830 START

0830 - Start with brief recap of previous day's discussions

5. MODELLING [0840 - 1200 with coffee break 1020 - 1040]

- *What is holding us back and where should the focus of YOPP lie?*
 - *Where are the gaps?*
 - *Where are we doing fine?*
 - *Where do we want to put the emphasis?*
 - *What are the observational requirements?*
 - *How can "point measurements" inform model development?*
 - *Drifting stations*
 - *Recommendations for MOSAiC?*
 - *Supersites*
 - *How to get good coverage at reasonable cost?*
 - *Buoys*
 - *Research aircraft*
 - *Radiation observation network*
 - *Others?*
- *What kind of simulations are needed?*
 - *Large-scale eddy simulations*
 - *Who is doing this in the polar regions?*
 - *High-resolution community integrations*
 - *Atmosphere, ocean and sea ice*
 - *Reforecasts*

- *Can we do with what is there already?*
- *Dedicated reanalysis (e.g., 2000 to today)*
- *How can we involve operational centres (e.g., through WGNE, WGSIP ...)?*
- *How can the research community be involved?*
 - *Transpose AMIP*
 - *Perhaps those groups who can do data assimilation?*
 - *PCPI*
 - *GASS*
 - *WGNE*
 - *S2S*
 - *IASC*
 - *Any other key partners?*
- *Do we have a reasonable data inventory?*

[Lunch 1200 - 1300]

6. VERIFICATION [1300 - 1345]

- *Observational requirements*
- *Modelling requirements*
- *User aspects*

7. EDUCATION [1345 - 1405]

- *Summer School*
- *Other suggestions*

8. GENERAL ISSUES [1405 - 1435]

- *Project scale (YOPP costs)*
- *Project dates (is 2017 - 2018 still reasonable?)*
- *Who should be involved?*
- *YOPP core planning group composition*

9. PREPARATION PHASE [1435 - 1515]

- *What kind of preparatory research is urgently needed?*

[Coffee Break 1515 - 1530]

10. CONSOLIDATION PHASE [1530 - 1600]

- *High level brainstorm of key issues*

11. WRAP-UP AND CLOSING [1600 – 1630]

- *Wrap-up*
- *Next steps*
- *Workshop closure*