

SPECIAL SESSIONS: WWRP POST-THORPEX LEGACY

1) Polar Prediction Project (PPP)

There has been growing interest in the polar regions in recent years due to the opportunities and risks associated with anthropogenic climate change. Increasing economic, touristic, transportation and scientific activities in polar regions are leading to more demands for enhanced environmental prediction capabilities to support decision-making. In this session, papers are welcome that contribute to the development of improved weather and environmental prediction services for the polar regions, on time scales from hours to seasonal. The following topics are of particular relevance:

- Guidance on optimizing polar observing systems, and on coordinating additional observations to support modelling and verification;
- Development of data assimilation systems that account for the unique characteristics of polar regions;
- Development and exploitation of ensemble prediction systems with appropriate representation of initial and model uncertainties in polar regions;
- Improvement of the representation of key polar processes in (coupled) models of the atmosphere, cryosphere, ocean and land;
- Improvement of knowledge in two-way linkages between polar and lower latitudes and their implications for prediction;
- Determination of predictability and identification of key sources of forecast error in the polar regions;
- Development of verification methods suitable for the polar regions; and
- Understanding and evaluation of the use of (enhanced) prediction information and services in the polar regions.