



Arctic Predictability and Prediction on Seasonal to Interannual Timescales (APPOSITE)

S. Tietsche (1), J. J. Day (1), E. Hawkins (1), D. Hodson (1), S. Keeley (2), and R. Sutton (1)

(1) University of Reading, Department of Meteorology, Reading, UK (s.tietsche@reading.ac.uk), (2) ECMWF, Reading, UK

We present the main scientific goals and experimental strategy of the APPOSITE coupled-model intercomparison project together with some preliminary results. The APPOSITE project is designed to quantify predictability of the Arctic environment on seasonal to interannual timescales, to investigate the physical processes responsible for the presence or absence of predictability on these time scales, and to provide recommendations for operational prediction systems. One of the first focal points within the newly-started project is the connection between the Arctic sea-ice state on the one hand and Atlantic heat transport into the Arctic on the other hand. We here discuss this connection based on data from HadGEM 1.2 and MPI-ESM-LR, two of the models participating in the model intercomparison, analysing both a present-day control simulation and a series of perfect-model predictions.