



## Sea-ice and climate sensitivity on monthly scales

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The solutions derived from seasonal forecast models may be biased and have too weak spread since the simulations tend to be constrained to climatological sea-ice in the polar regions. Preliminary results from experiments with the coupled IFS/Hope model at ECMWF, based on coupled model set-up used for the operational seasonal forecasts where the sea-ice normally is relaxed towards climatology after the first month, are presented. The experimental set up is the same as Balmaseda & Ferranti (in progress), consisting of 5 ensembles and taking ocean initial conditions from May 2007, with the exception of sea-ice. The experiments, sampling the past 8 years sea-ice evolution (5 members for each year), investigate if the ice coverage has an effect on the ensemble spread and gives an improved description of the distribution.