

Numerical Prediction of the Earth system: putting it all together

Environmental Prediction Systems: Global and medium-range aspects

Papers are welcome on the behaviour and performance of global coupled systems that include two or more of the following components: atmosphere, land, ocean (including surface waves), cryosphere and atmospheric composition. Although operational Numerical Weather Prediction global models do not currently include all interactions between these components, several are already taken into account by state-of-the-art models, including atmosphere/land and atmosphere/ocean couplings. Active research and development is also taking place to extend the representation of these interactions to the cryosphere and atmospheric composition information. The interactions between these various components act on different timescales, and both the fast and slow processes in the earth system models will be discussed. The way to represent and quantify uncertainties in the coupled models will also be considered as part of the session. Some of these Environmental Prediction Systems are still at an early development phase, and prospective views on the vision for a fully-fledged environmental system are welcome.