

Predictability and Dynamical/Physical/Chemical Processes

Dynamics and predictability of middle latitude weather systems and their higher and lower latitude interactions

This session addresses all aspects of the dynamics and predictability of midlatitude weather systems including Rossby wave trains, high-pressure systems and blocking, extratropical cyclones and fronts, and also embedded mesoscale phenomena. A particular focus of the session will be on studies investigating interactions of these midlatitude systems with the (sub)tropics and polar regions, and on high-impact weather events. Contributions are welcome that present novel results from recent field experiments, theoretical and idealised studies, numerical modelling case studies, and ensemble and long-term evaluations of the forecasting performance for specific midlatitude weather systems.