

Observations and Data Assimilation

Observations and their assimilation in global to convective scale models

The accuracy of NWP model forecasts continues to improve. Important contributions to this are the advances made in data assimilation, coupled with increased computer power, better models, and more extensive observing systems. Global models continue to make use of increasing amounts of satellite data enabled by greater computing power and higher resolutions. The challenge now is to assimilate observations in convective scale models that represent phenomena with much shorter temporal and spatial scales. Novel observation networks are required for these fine scale models as in-situ observations have very limited coverage. Abstracts are invited on new techniques for assimilation of observations of all kinds and on the use of novel observations in NWP models particularly at the convective scale.