

#### **1.4.4 Improvement of Quantitative Precipitation Forecast**

The quality of Quantitative Precipitation Forecast (QPF) is an essential limiting factor of our ability to understand and model the energy and water cycle. Several national initiatives are planned or already exist, aiming to improve QPF in specific regions by further developing model performance and data assimilation, and by conducting dedicated field experiments. An effort shall be made to connect BALTEX to these initiatives in order to participate in the new developments. BALTEX will also draw attention to the specific problems of QPF in the Baltic Sea basin caused for example by the interaction of the Baltic Sea with the atmosphere and the increasingly important role of solid precipitation and the specifics of land surface-atmosphere interactions in a Nordic environment. Quality advances of the QPF have a direct influence on the quality of flood forecasts (see Chapter 3 for details).