



Seamless probabilistic forecasts on high impact weather for civil protection

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High impact weather (thunderstorms, floods, storms, etc.) is responsible for many natural disasters which may cause significant economic damages and even loss of life. Accurate and reliable weather forecasts are essential for an improved preparedness and an enhanced awareness in the warning chain to protect citizens, environment and property in case of high impact weather.

In Frame of an EU Project (PROFORCE) led by ZAMG, an innovative seamless probabilistic forecasting system has been built and integrated in the decision making and preparative actions in the civil protection. This system provides weather forecast and the corresponding forecast uncertainties from week (medium range) ahead to hours (nowcasting) in a seamless way. In the talk, the forecast system will be briefly introduced, and case studies on high impact weather and its integration in the civil protection agencies will be shown to demonstrate the capability of the seamless forecast system.