



Improving Forecasters Skill by introducing Convective Initiation at DWD

Pierre Fritzsche

Deutscher Wetterdienst, Satellite Meteorology, Offenbach, Germany (pierre.fritzsche@dwd.de)

DWD role by law is to inform and warn the public about significant and potential dangerous weather. Detecting possible severe Thunderstorms well in advance, would increase the lead time in warning and therefore save lives and losses arising from one event. Increased understanding in the field of convective and pre-convective mechanism and the use of satellite data provides the opportunity to detect areas with future convective clouds (growing over -35 dBZ in radar data) up to 1h in advance. By transferring the SatCast method at EUMETSAT to Europe, the code is analysed and optimized for operational purposes by DWD. The result was a first implementation at DWD, as well as on EUMETSAT.

During the implementation phase a training and evaluation campaign was designed. The presentation includes a description of how the development at DWD is connected with forecasters to maximise the usability and therefore the impact of the product in operational use.