

## High resolution modelling at the Austrian Weather Service ZAMG

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### ZAMG

The Austrian Weather Service ZAMG is operationally running several numerical weather prediction (NWP) models to cover the whole forecasting range from nowcasting (several hours ahead) to medium range (several days). The focus of the past years has been mainly on the development and improvement of the convection permitting AROME model. The operational AROME version is running at the HPC at ZAMG and has a forecasting range of 60 hours on a 2.5km grid.

Currently, two systems based on the AROME model are under development at ZAMG and will go operational at the end of 2019. These are the nowcasting system AROME-RUC (Rapid Update Cycle) and the ensemble system C-LAEF (Convection permitting – Limited Area Ensemble Forecasting system). Several new and innovative methodologies have been developed and implemented for this purpose – e.g. advanced methods in stochastic physics, integration of new observation data (radar, satellite, air craft data), new blending methods for coupling with the global model, etc.

This presentation gives an overview on the different NWP models at ZAMG and how the operational setup is working. The second part of the presentation is dealing with the scientific developments in AROME-RUC and C-LAEF.