



Seamless probabilistic Analysis and Prediction in very High Resolution (SAPHIR)

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A seamless probabilistic system (SAPHIR) including weather analysis, nowcasting and short range prediction in very high resolution has been developing at ZAMG since 2015. SAPHIR is designed in at least 1km horizontal resolution, and updated from 10min to hours depending on weather parameters. SAPHIR will provide the best possible and statistically optimized probabilistic forecast from 0 to 3 days, which includes probabilistic integration of observations for ensemble analysis, ensemble nowcasting, convection permitting RUC, convection permitting EPS, regional deterministic and ensemble forecasts, global deterministic and ensemble forecasts. SAPHIR will be introduced at the conference.