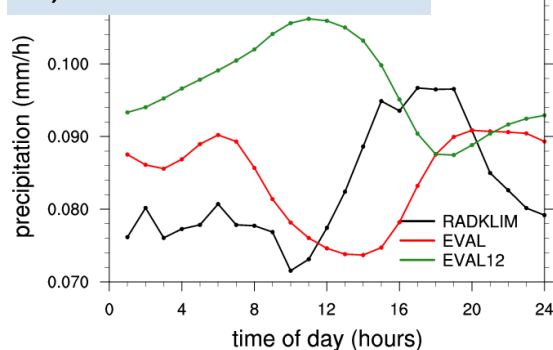


Sub-daily precipitation characteristics in convection-permitting COSMO-CLM simulations for Germany

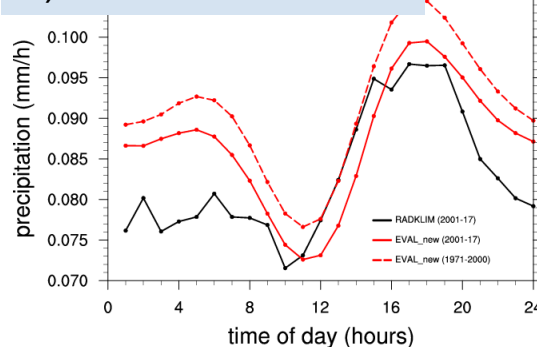
S. Brienen, M. Haller, B. Früh, DWD, Germany

- Comparing diurnal cycle of precipitation in different CPS simulations (~3km; project ExpN, CORDEX-FPS-C) with RADKLIM data; influence of graupel

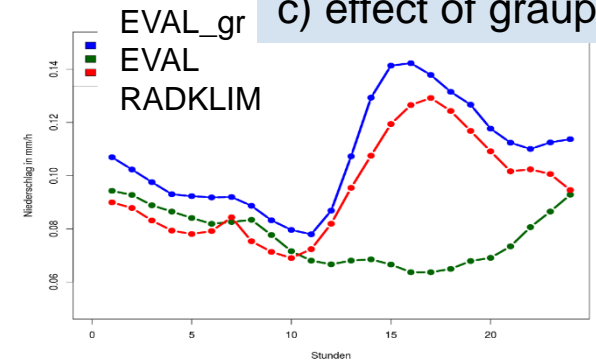
a) old simulations



b) new simulations



c) effect of graupel



- Better cycle with new configuration including graupel parameterization
- Large variations between regions, seasons, years, grid spacings
- New evaluation simulation for Germany 1970-2020 with ERA5 forcing, common analysis with similar simulations in the community would be great