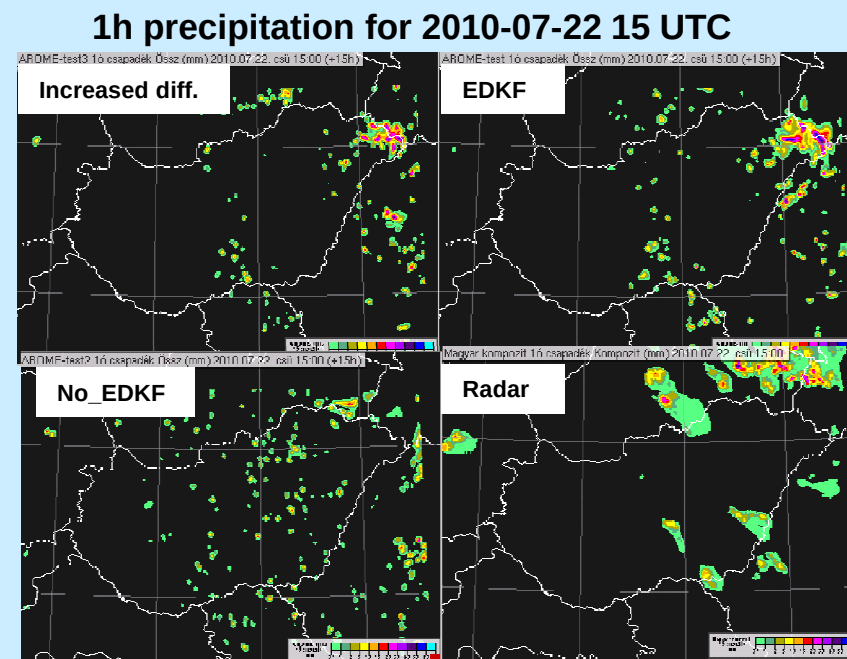


Impact of different PBL parameterizations on the resolved deep convection in the AROME model

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- AROME runs at 2.5 km resolution
- Three experiments:
 - Turbulence and shallow convection parameterized separately
 - Eddy Diffusivity – Mass Flux approach (EDKF)
 - EDKF, but horizontal diffusion is increased
- Case study and one-month verification
- SAL technique
- **Higher PBL mixing** of the EDKF scheme **reduces the number of cells** and improves the timing of convection
- The **diurnal cycle** of convective precipitation is **well forecasted by the AROME model**, as compared to other NWP models with a parameterized deep convection



Number of cells in SAL verification

