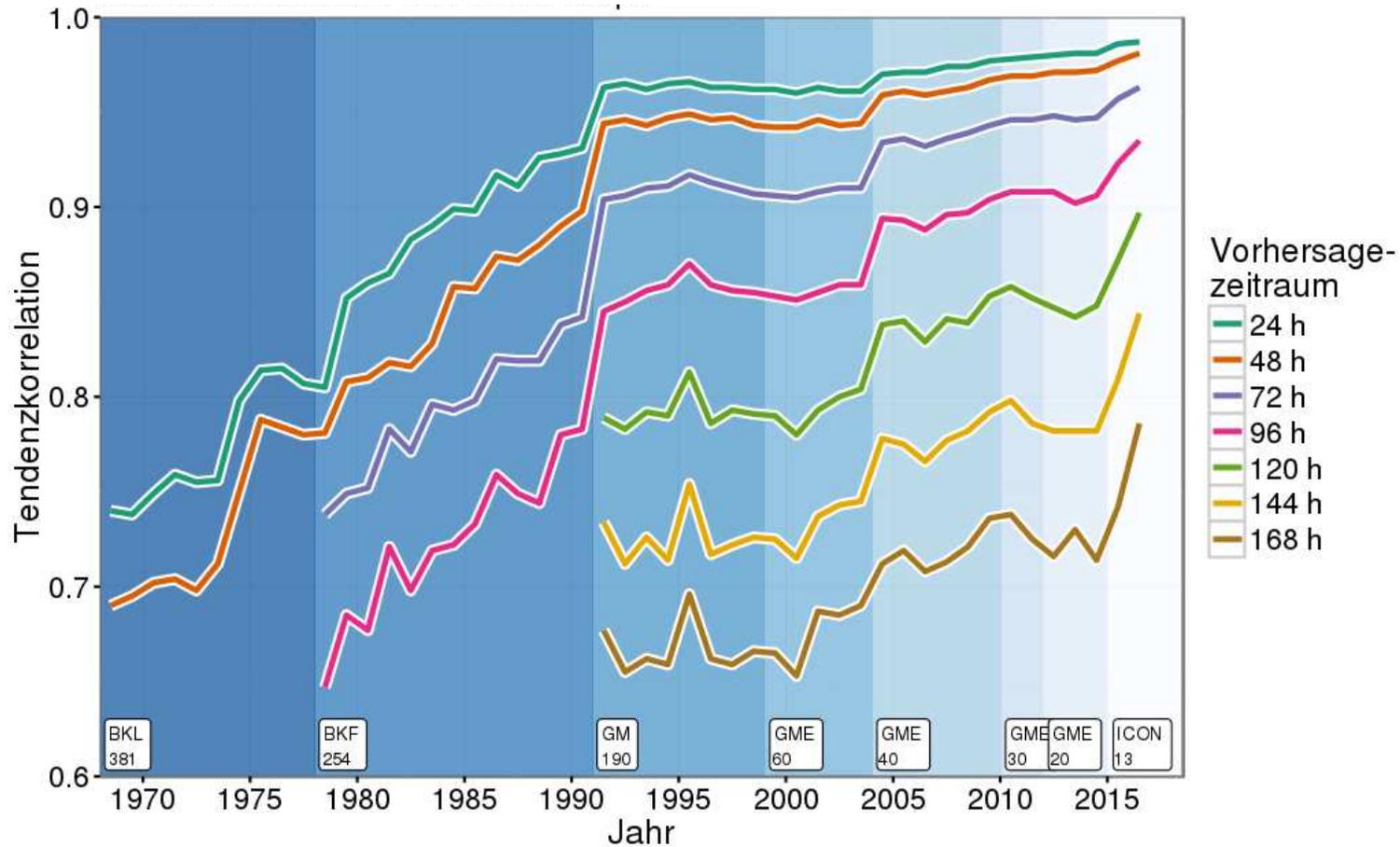


# COSMO and ICON-LAM



**D. Majewski (DWD)**

# Tendency correlation of surface pressure forecasts from 1968 to 2016 for North Atlantic and Central Europe



## ICON features which are important for COSMO-model users

- Mass conservation
- Mass consistent tracer advection
- Stable dycore for steep terrain
- **Up-to-date physics packages**
- One-way and **two-way** nesting options
- **Hybrid MPI / OpenMP parallelization**, highly scalable
- Lateral boundary data in **frame form**, not for full domain

## Tentative schedule for COSMO to ICON-LAM migration

- **28 Feb. – 3 March 2017:** ICON-LAM / ICON-ART Training at BTZ Langen
- **March 2017:** ICON-LAM available to all COSMO Partners, licensees, and the COSMO-CLM Community
- **2017 + 2018:** Tests of ICON-LAM (e.g. **PP CDIC** and at licensees, e.g. **Brazil**)
- **2017 + 2018:** Implementation of some observation forward operators into ICON
- **2019 + 2020:** Test of EDA (and EnVar) for ICON-LAM
- **2018 - 2022:** Gradual replacement of the COSMO-model by ICON-LAM at COSMO licensees, COSMO Partners, and the COSMO-CLM Community