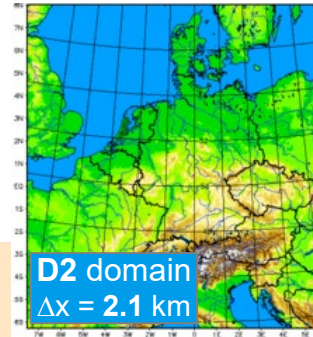


Global ICON/EnVar



- Radiative transfer updates:
 - RTTOV v13.1 and v13 predictors
 - Use of up-to-date O₃ profiles in RTTOV
- Towards an all-surface approach:
 - Surface emissivity atlases for IR, MW
 - Dynamic ϵ_s retrieval
 - Introduction of AMSU-A ch. 7+8 (ATMS ch. 8+9)
- Enhancements to MW humidity channel use:
 - Update of cloud/rain screening & bias correction
 - Assimilation of MWHS-2 from FY-3C, FY-3D, FY-3E
- Monitoring of new instruments:
 - FY-3E: MWHS-2, MWTS-3
 - NOAA-21: ATMS
 - GEO satellite changes (Himawari-9, GOES-18, MET-9)

ICON-D2/LETKF



- Developments for regional ICON-D2 system and new Rapid-Update-Cycle setup
- All-sky assimilation for SEVIRI radiances
 - Visible channel assimilation: 0.6 μm
 - Developments for WV channels: 6.2 μm , 7.3 μm
- Preparation for MTG – IRS hyperspectral sounder
 - Technical system preparation
 - Enhanced IR use over land