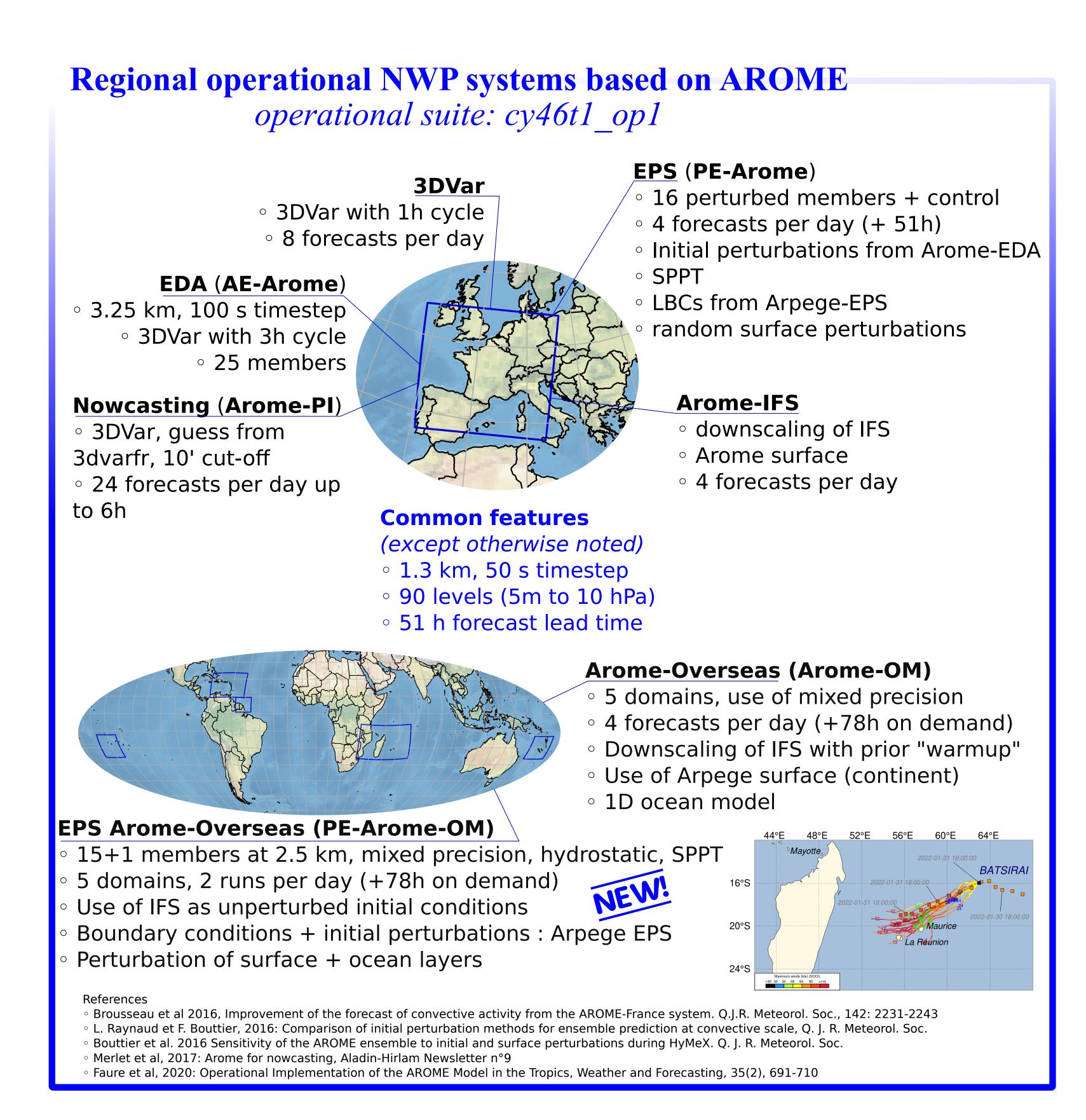
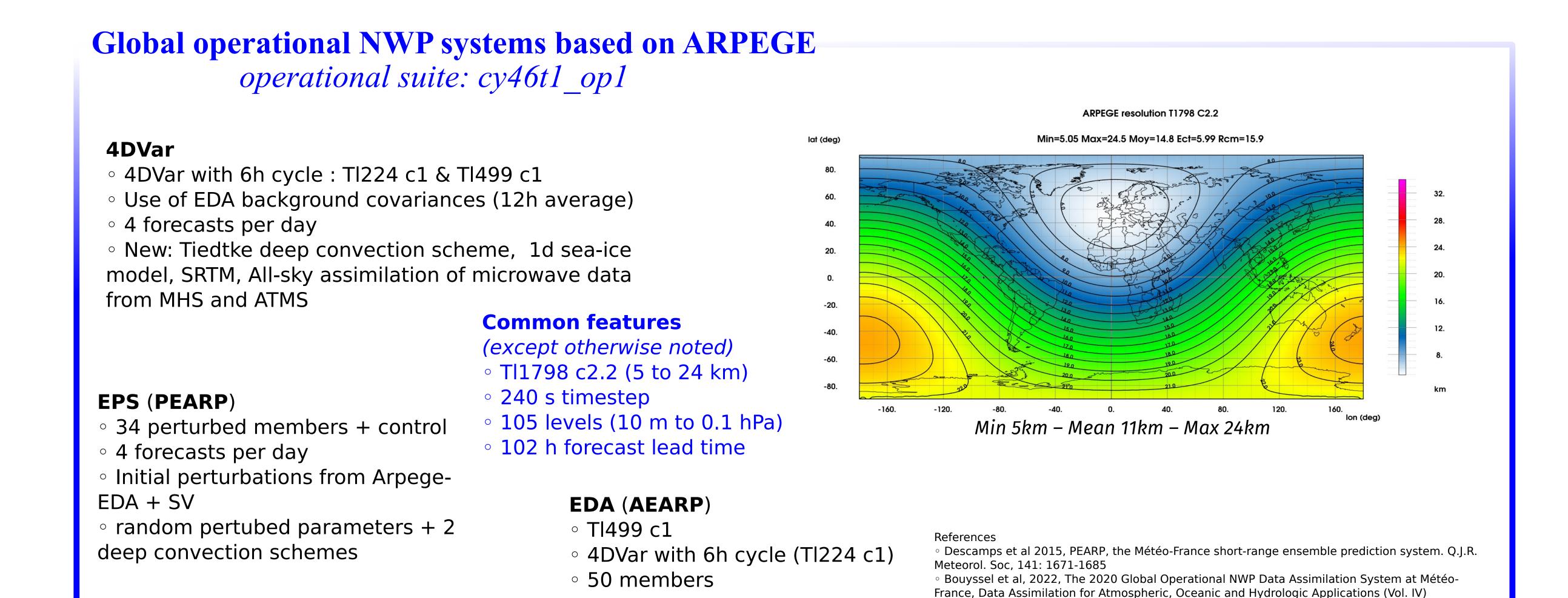
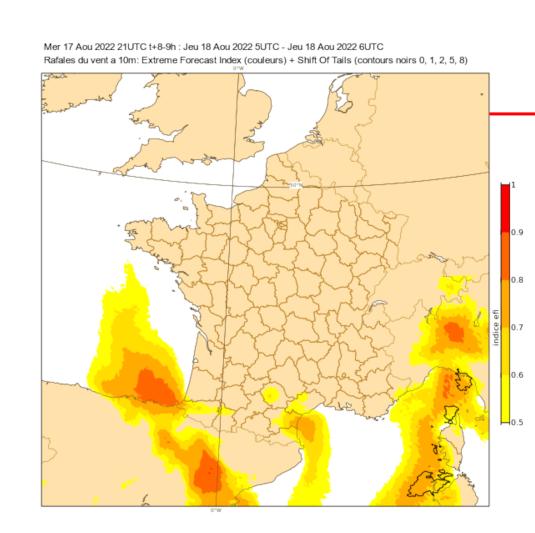
In operations since February 2021 No upgrade during the 4 year contract Belenos computer Furanis computer Each HPC: ATOS BULL Sequana XH2000 2292 computing nodes 10.39 PFlops peak performance The fold increase in performance than the previous HPC



Overview of Météo-France NWP systems





Further perspectives (2022-2023)

Transfer to operations of EFI and SOT diagnostics on Arpege EPS and Arome EPS
 → Operational switch planned in 2023

Next e-suite: cy48t1 op1:

- OOPS in 3DVar and 4DVar analyses
- Assimilation: 3DEnVAR Arome, hybrid B matrix in Arpege 4Dvar
- Arome EDA: 50 members (instead of 25 currently)
- Physics: EcRad (Arome), use of SST from Mercator-Océan global model and enhancement of Tiedtke deep convection scheme (both for Arpege), change of aerosol and ozone climatologies (from CAMS, Arome)
- Dynamics : use of WENO interpolations for T and Q in stratosphere (Arpege)
- Observations: "all sky" assimilation of microwave obs, Arpege: GOES-17, CrIS mode «FSR», GNSS-RO (GRACE-C, Sentinel-6, Spire), scatterometers HY-2B & HY-2C(Arome), AMV HIMAWARI/AHI, Mode-S from EMADDC (Arome), WIGOS adaptations
- PEARP: revision of singular vectors and of the range of perturbed parameters

Calendar: real-time S1 2023, operationnal S1 2024







