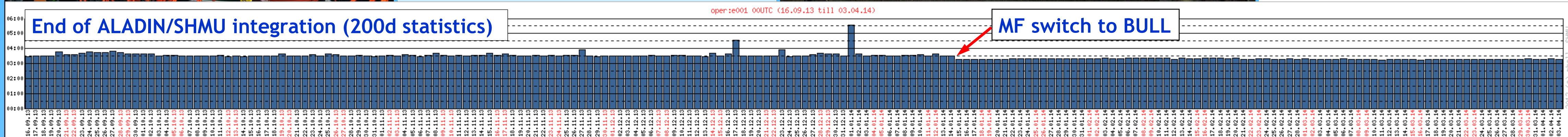
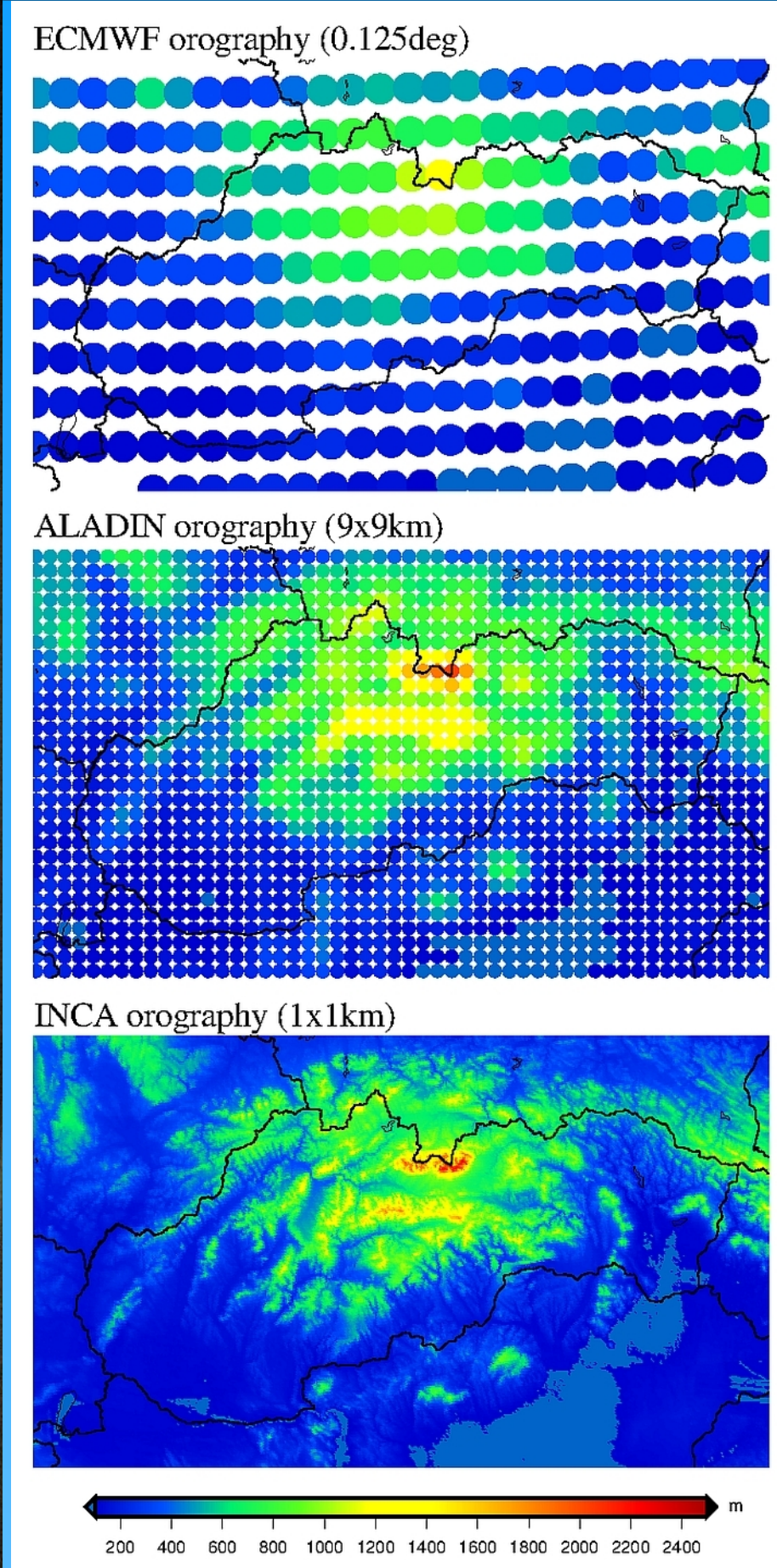
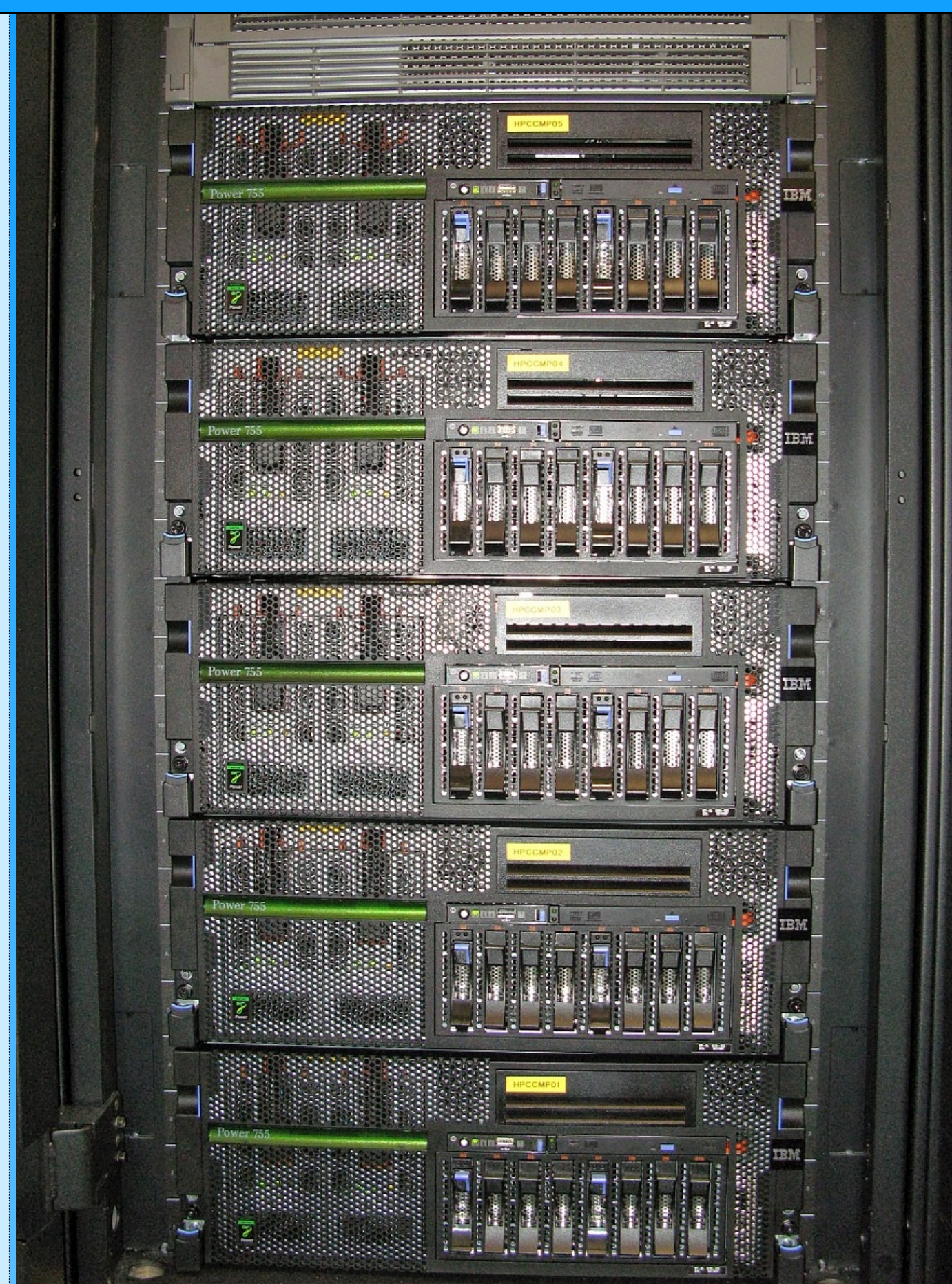
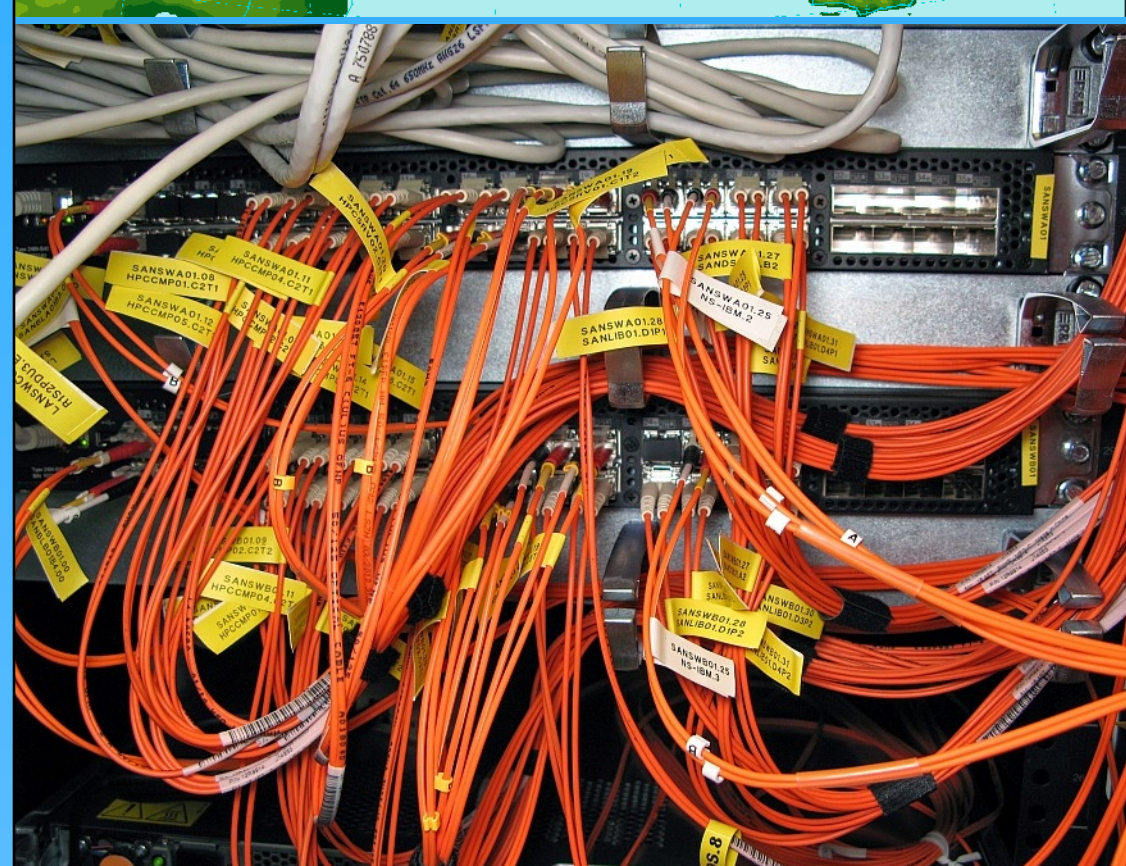
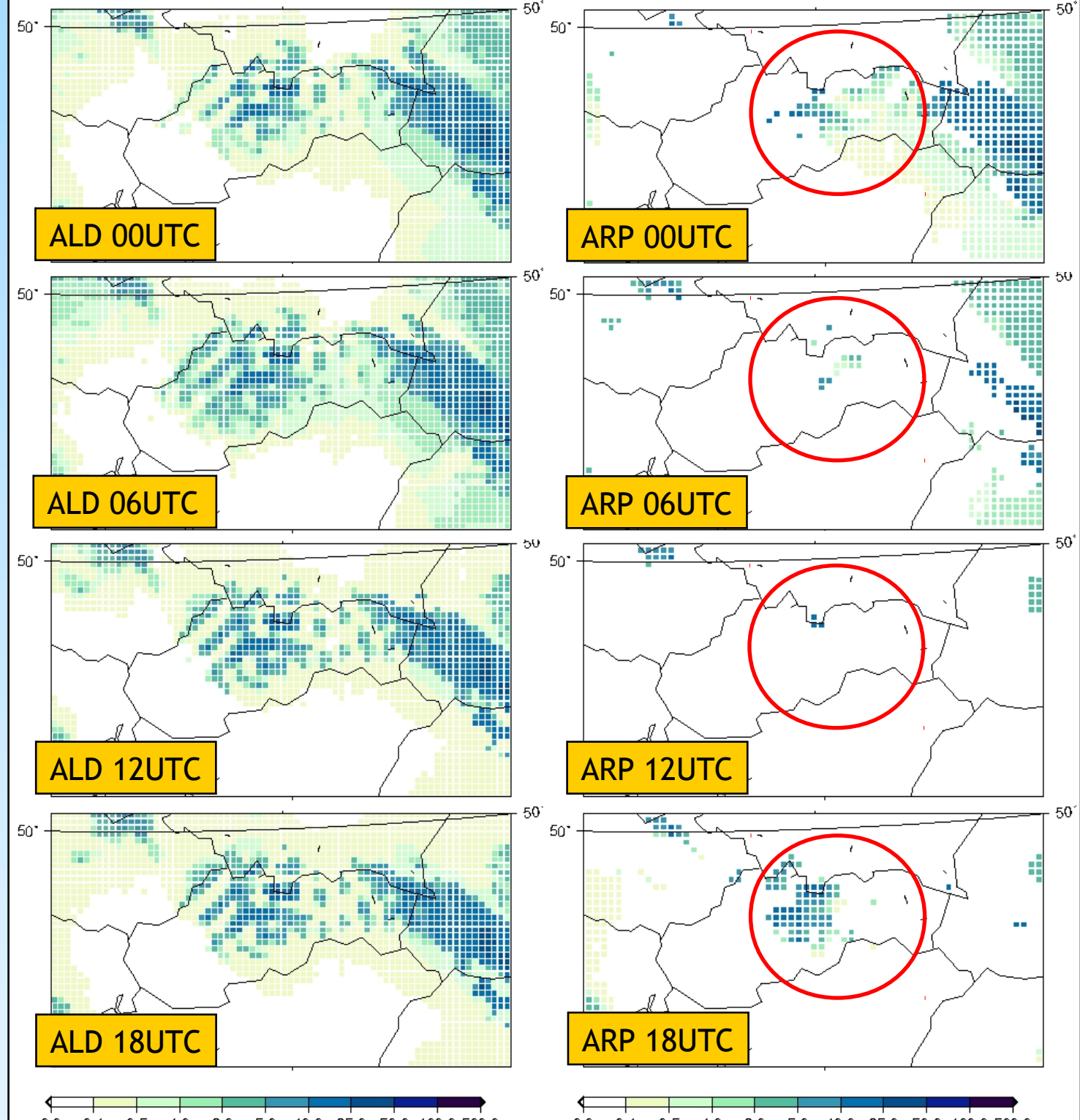
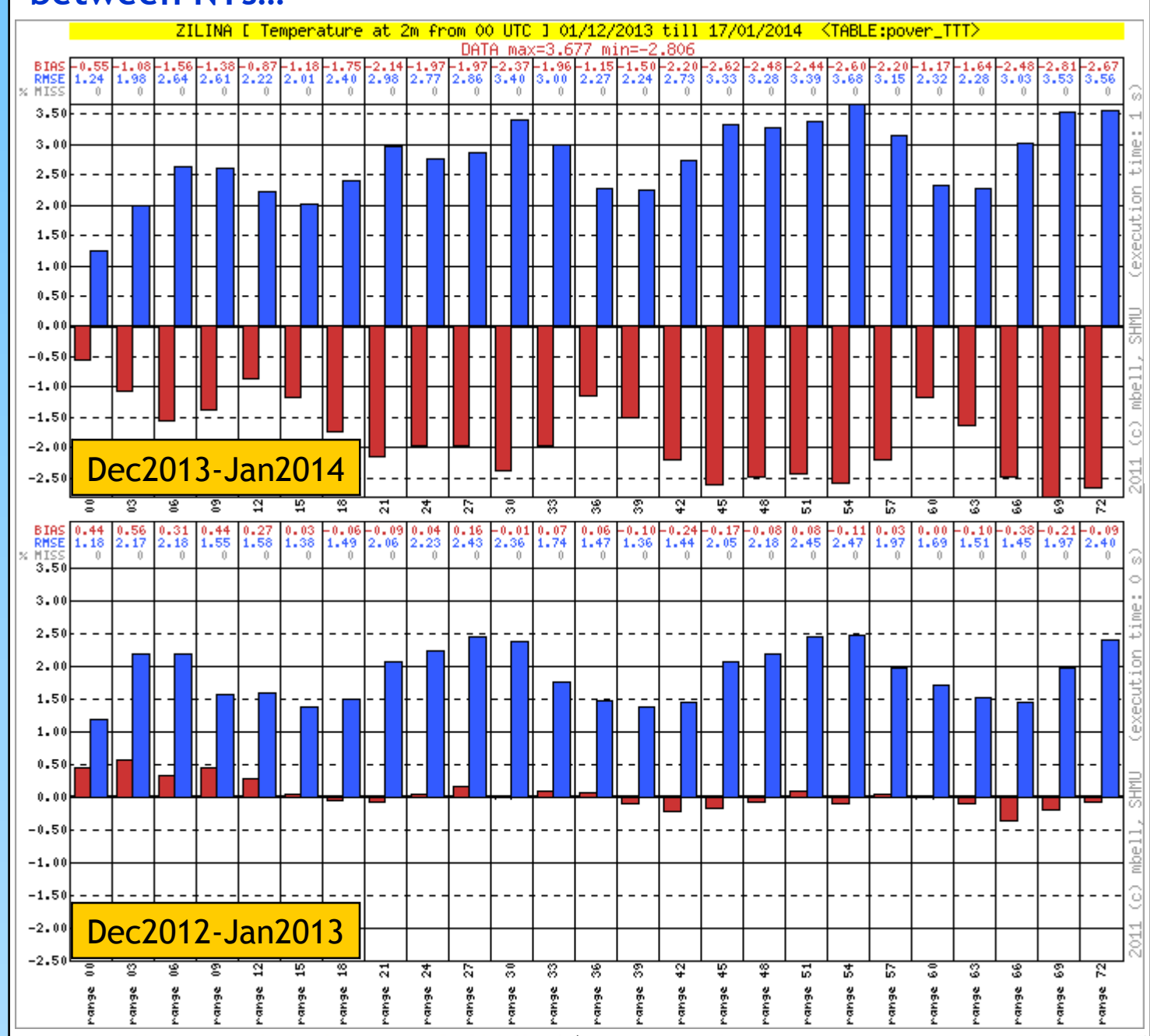


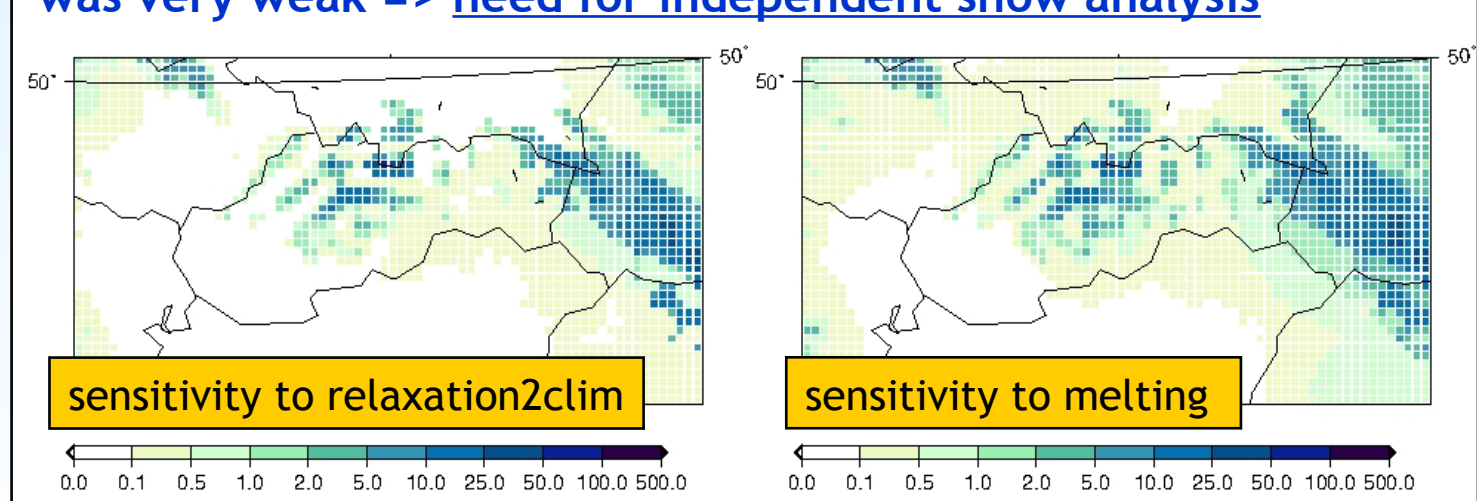
NWP model
 ALADIN CY36T1: ALARO+3MT & SLHD
Domain size and resolution
 320 x 288 points (2882 x 2594 km)
 dx=9.0 km, vlev=37, tstep=400s
Assimilation cycle:
 CANARI surface analysis
 upper-air spectral blending by DFI
Suite characteristics
 forecast length +72h (3 days)
 4 runs/day (00, 06, 12, 18 UTC)
 ARPEGE coupling with 3h frequency
HPC
 10 nodes of IBM Power 755:
 4x Power7 8core CPUs (3.6 GHz)
 256 GB RAM
 total: 320 CPUs, 2.5 TB RAM
Management servers
 2x IBM Power 750
 1x Power7 6core CPU, 64 GB RAM
Software and file system
 AIX 6 SE OS
 IBM Load Leveler queueing system
 40 TB GPFS



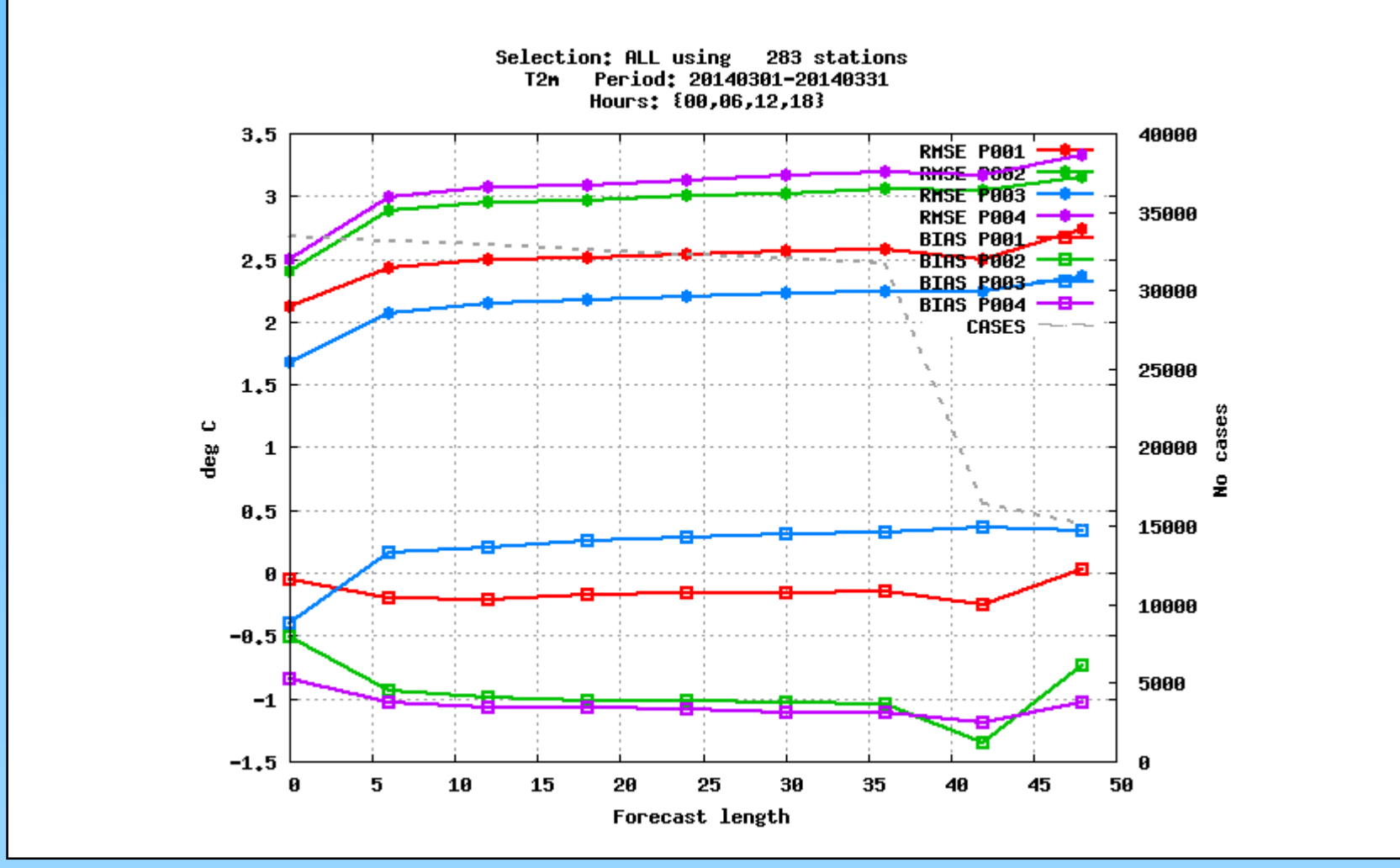
Negative BIAS in T2m this winter, probably linked to unrealistic snow cover in ALADIN. There was almost no snow in Slovakia. Snow cover was (consistently) completely wrong in ALADIN. It was more realistic in ARPEGE, but inconsistent between NTs...



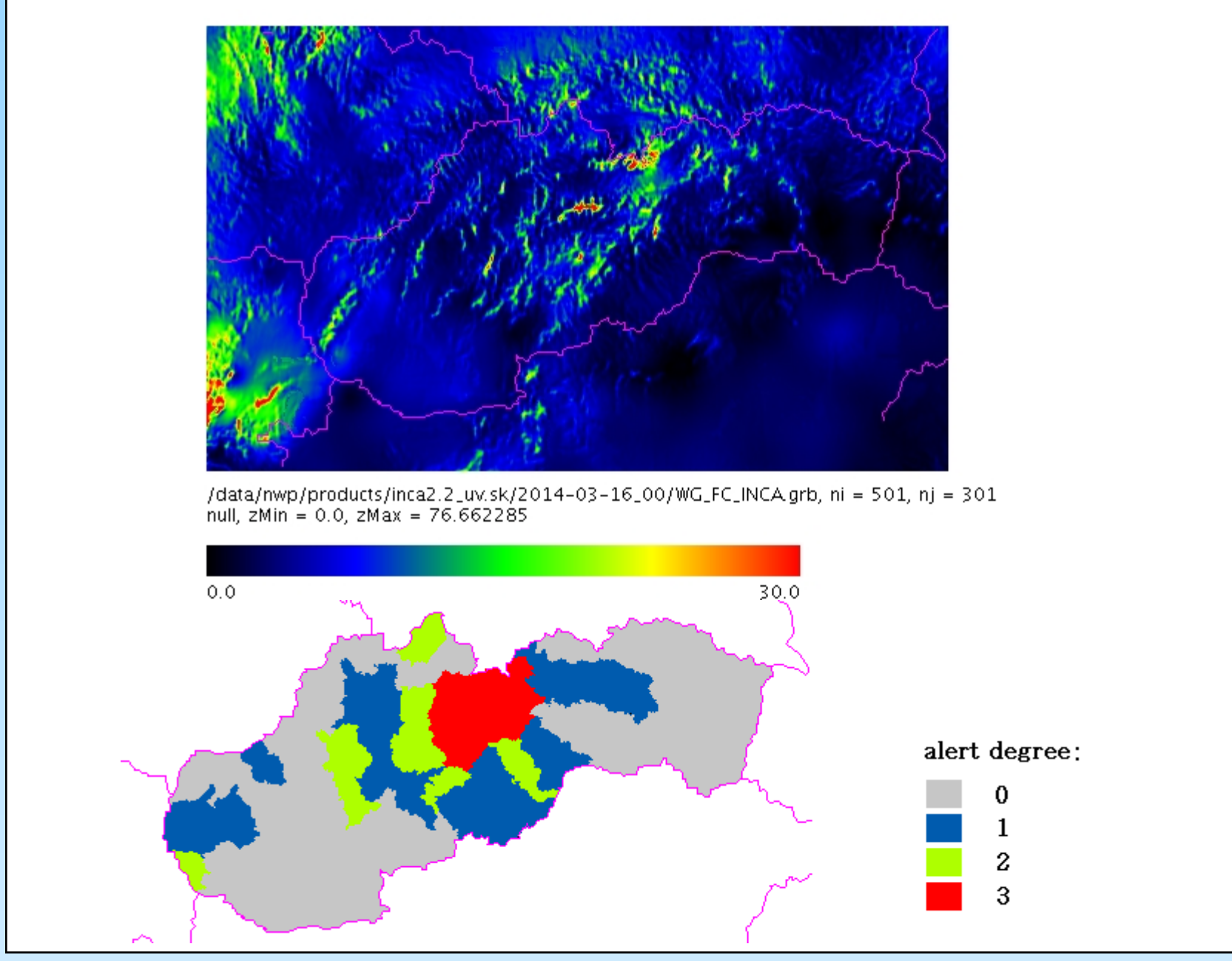
42d experiment: sensitivity to melting & relaxation to climate was very weak => need for independent snow analysis



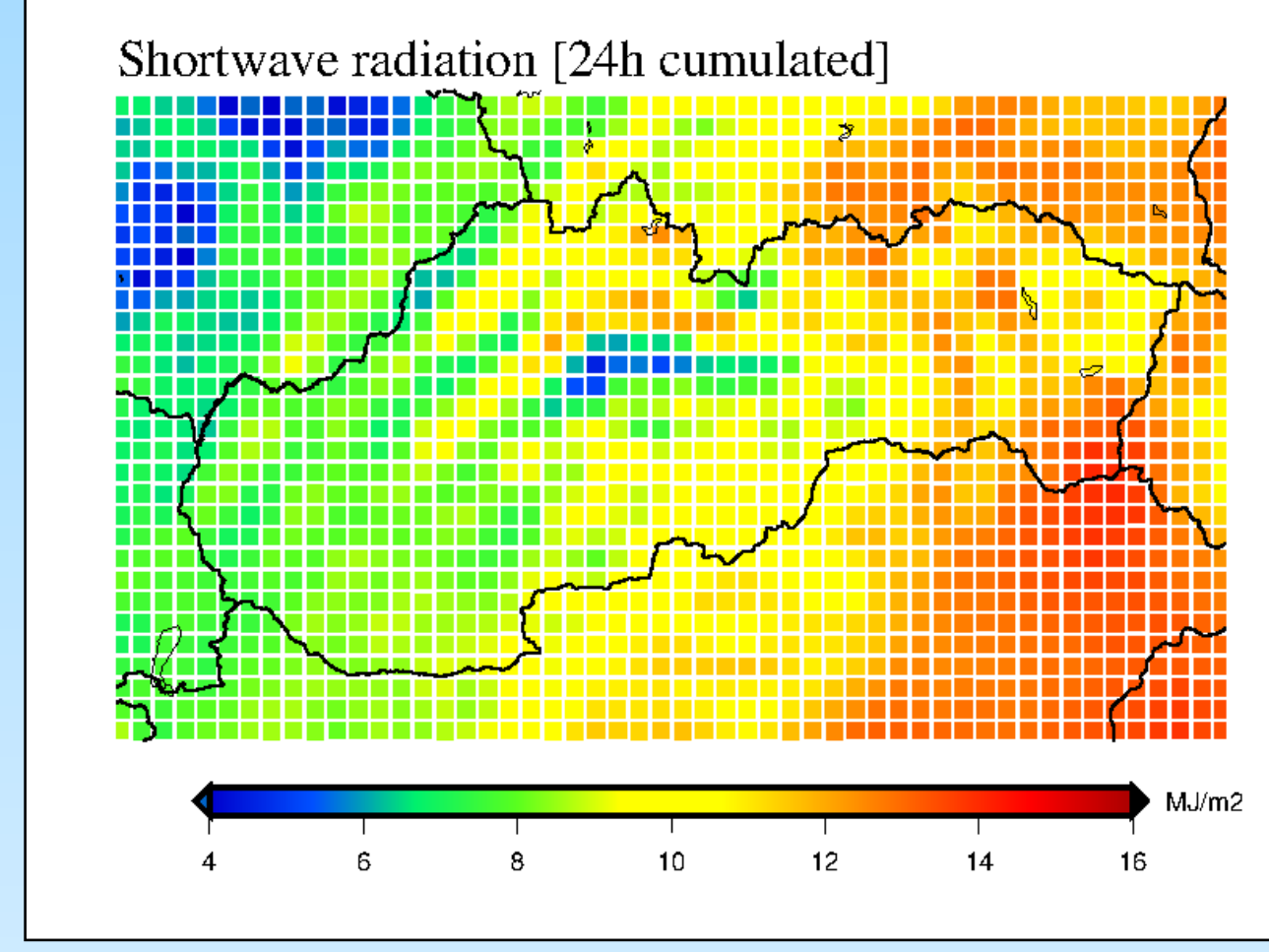
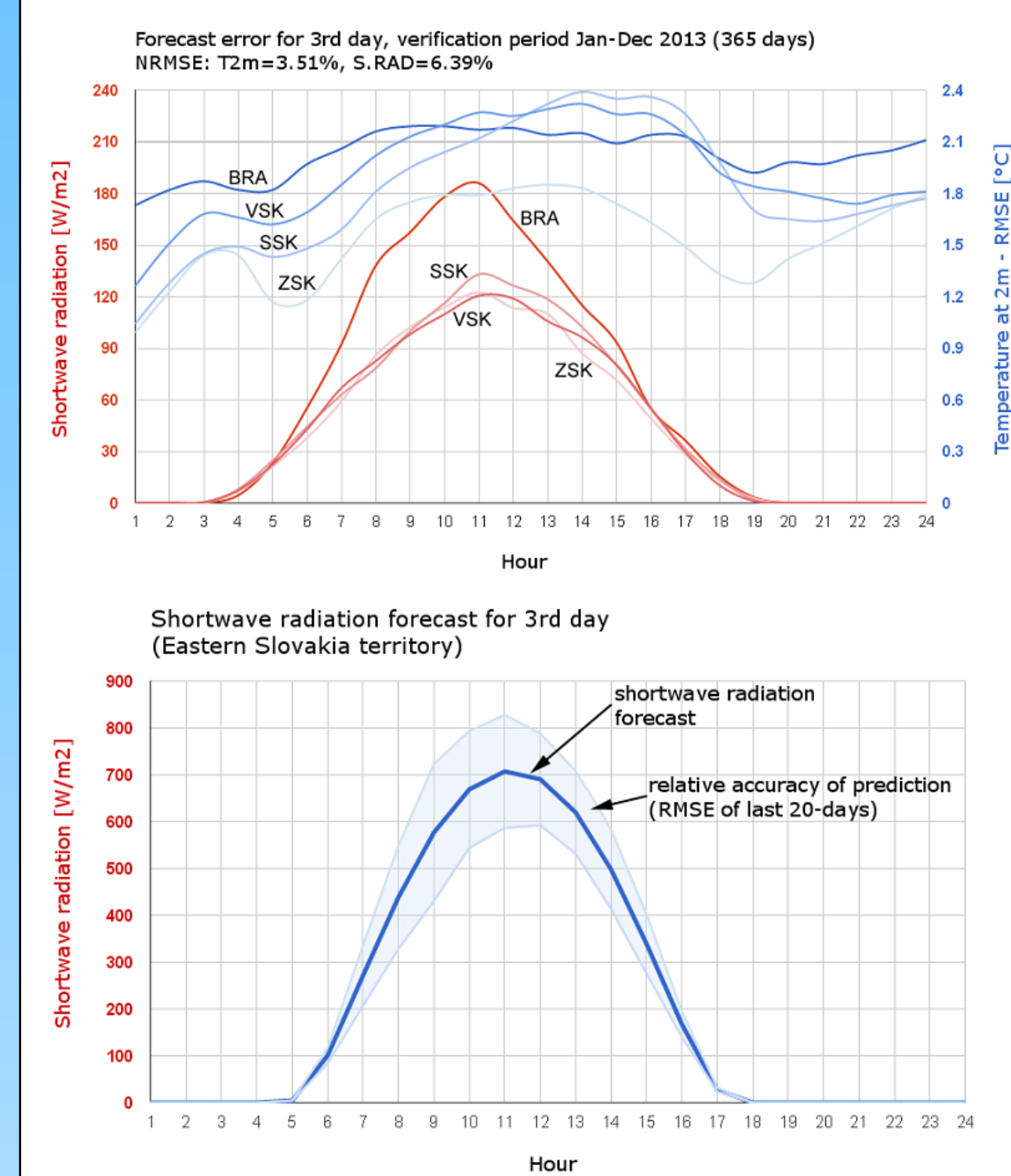
Towards [common LACE] verification using HARMONIE



Automatic alert generation from ALADIN&INCA



Verification of radiation for energy sector



LAEF experiments with the size of ensemble that was determined to be optimal with ~20 members; and its sensitivity to simulated model uncertainty (multiphysics)

