

gsp_first verification

Experimental Setup

Description	Test reordering of microphysics
Period	01/05/2015-14/05/2015
Configuration	COSMO-2
Code version	cosmo-prerelease, git rev 3cc8a5 (21 Jan 2015)

Model Versions

700	exp: lgsp_first=.TRUE.
701	ref: lgsp_first=.FALSE.

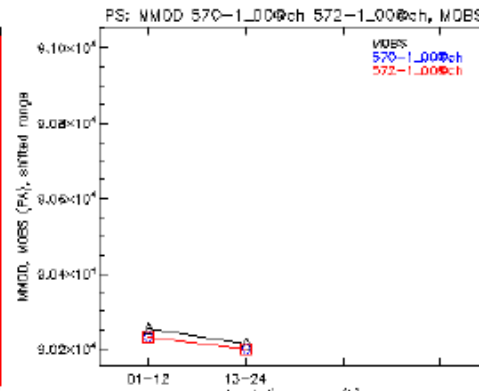
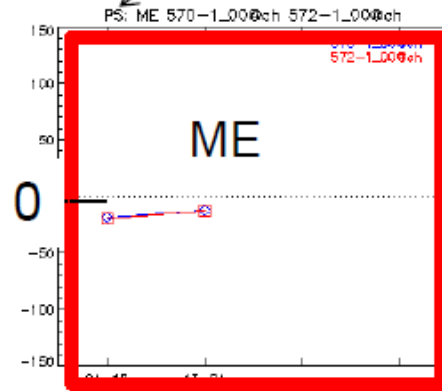
Neutral effects, main variables are shown in the following slides



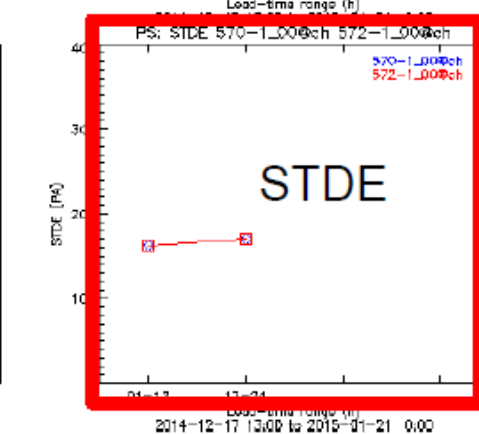
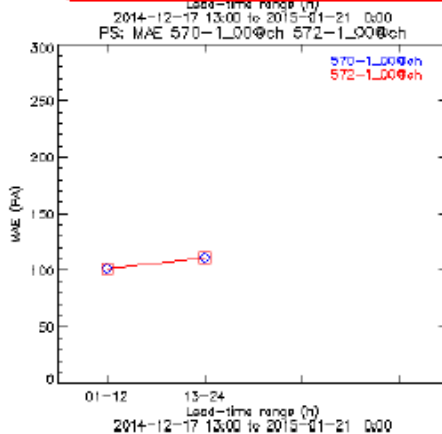
Quick tour through the synop verification scores

Variable name, here PS

better
↓
0
↑



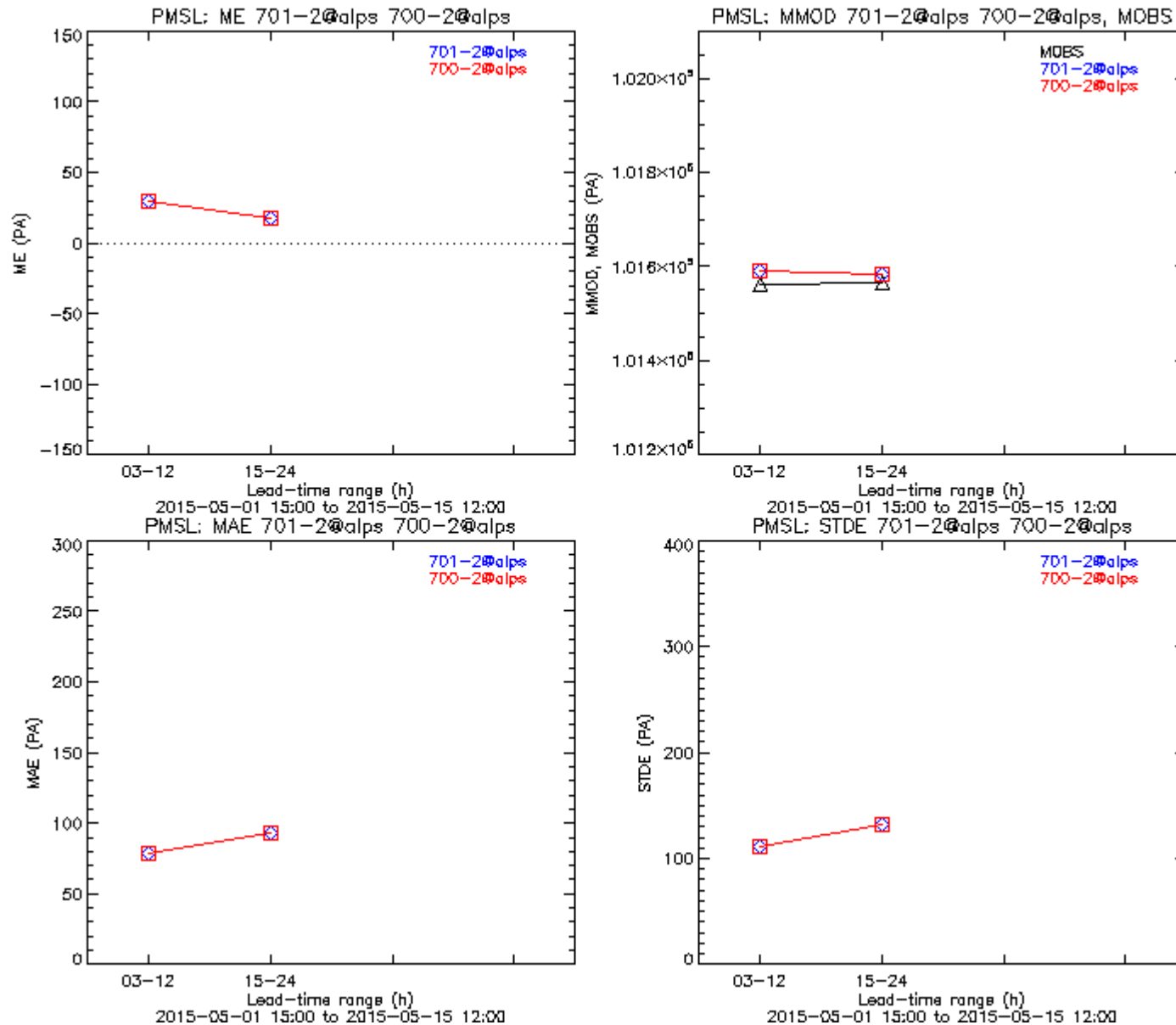
Important scores:
- Mean error (ME - top left)
- Standard deviation (STDE - bottom right)



0
↓
better

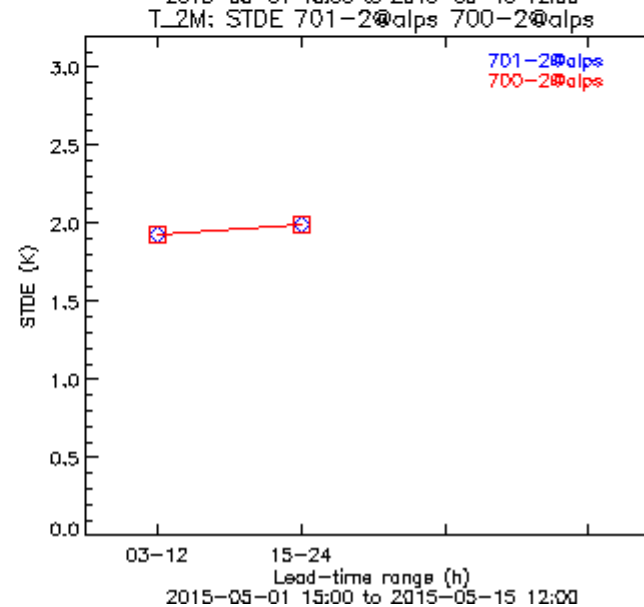
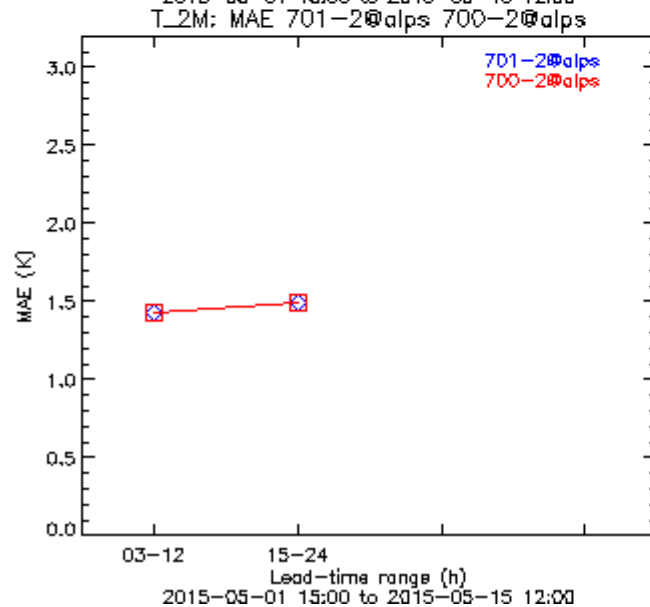
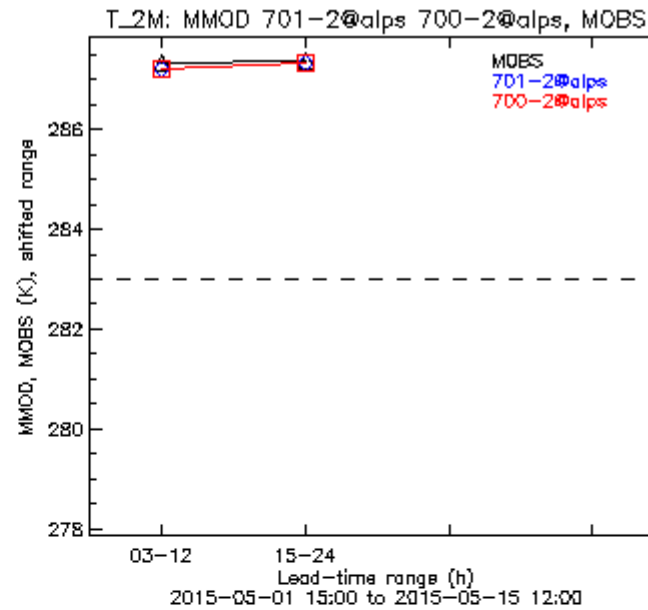
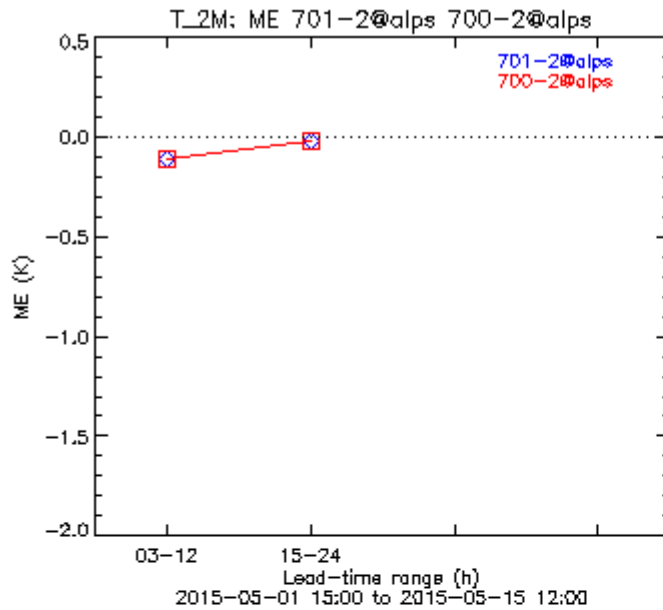


Synop verification : pmsl



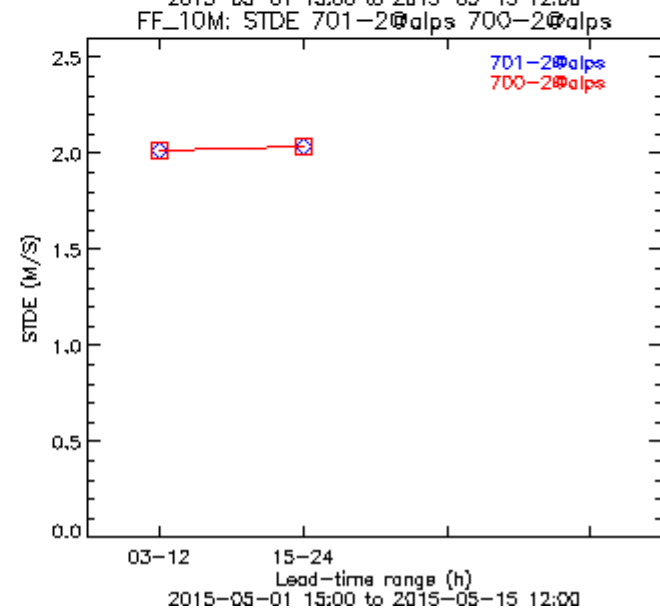
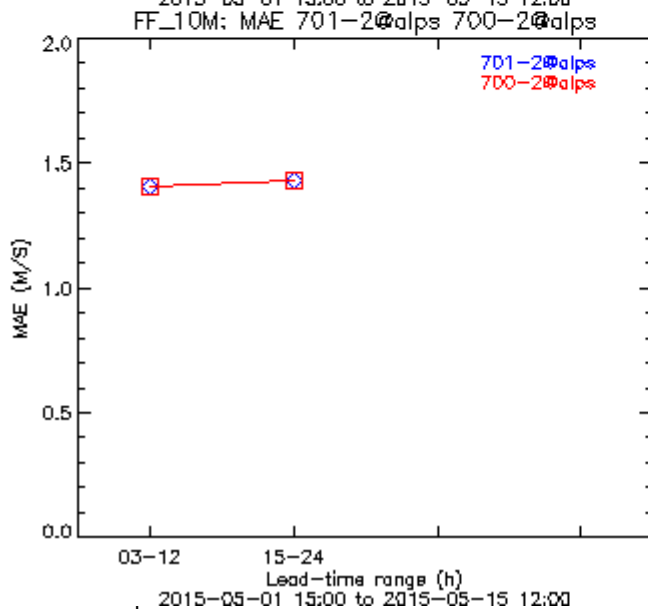
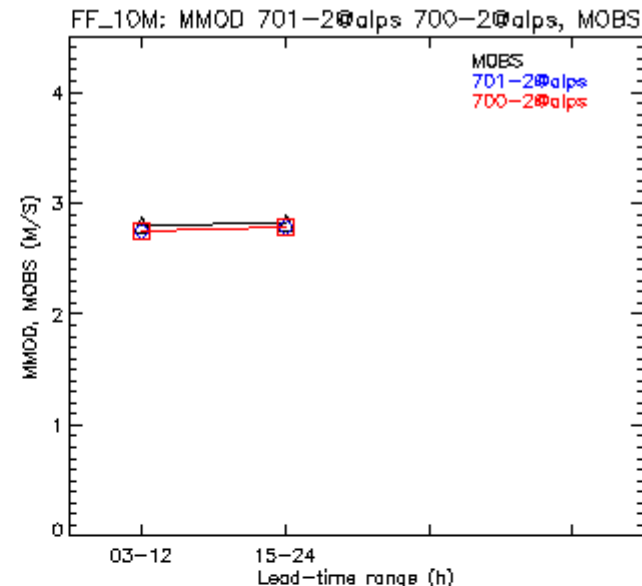
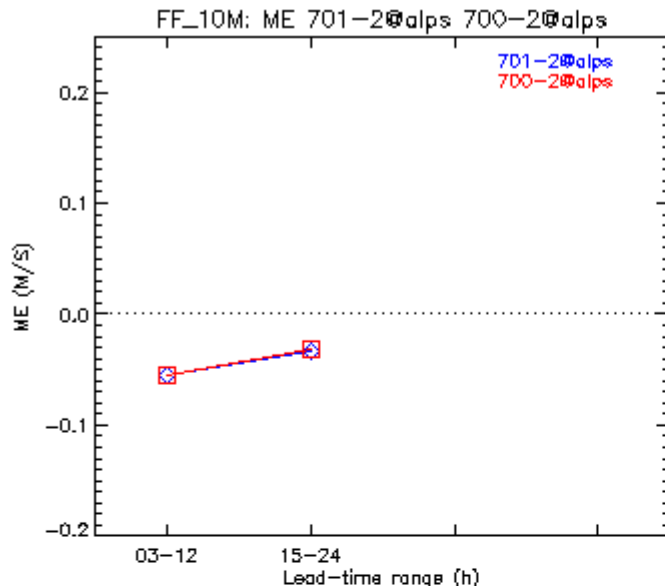


Synop verification : t_2m



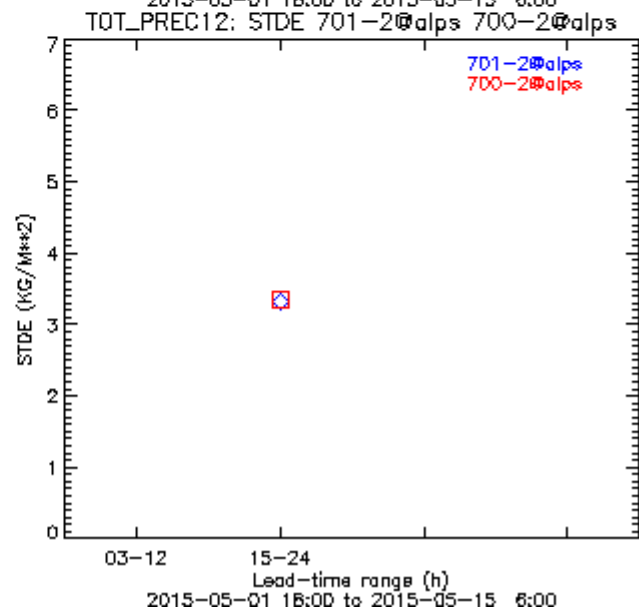
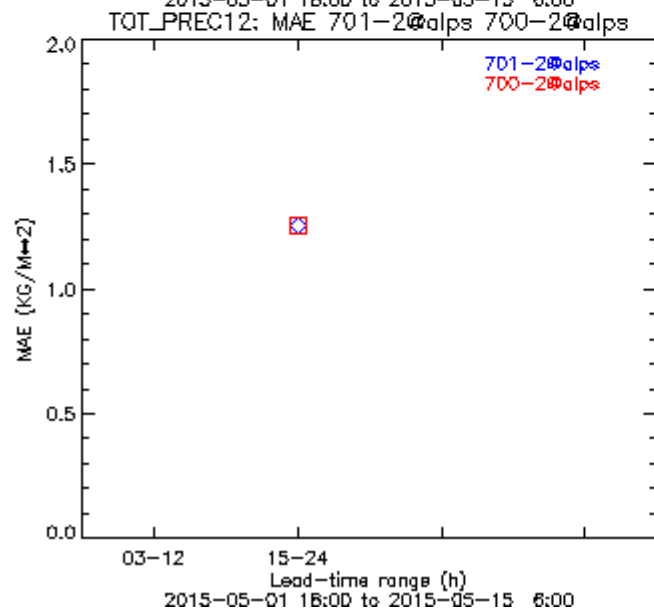
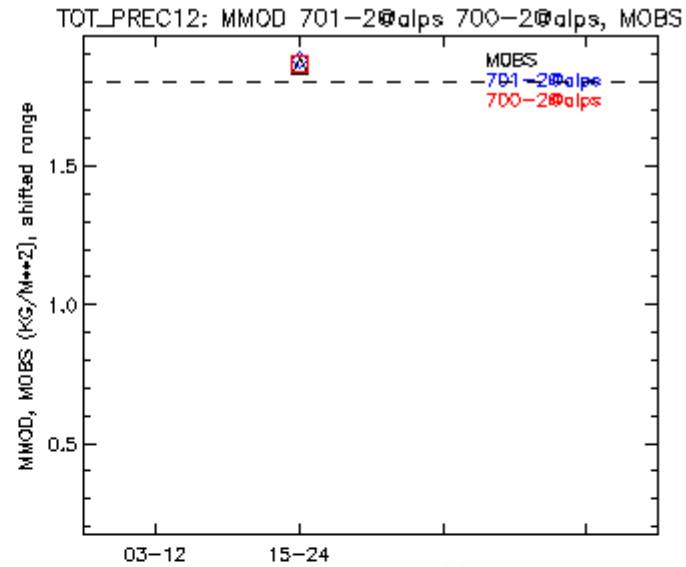
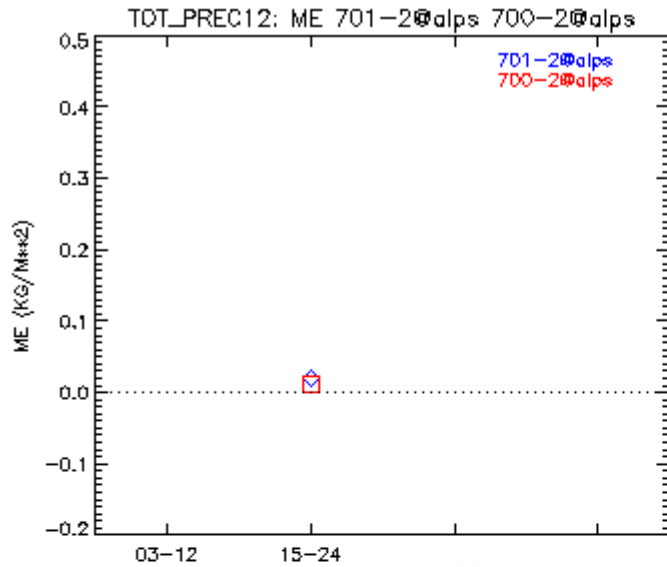


Synop verification : wind speed





Synop verification : TOT_PREC



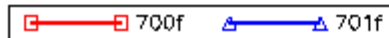
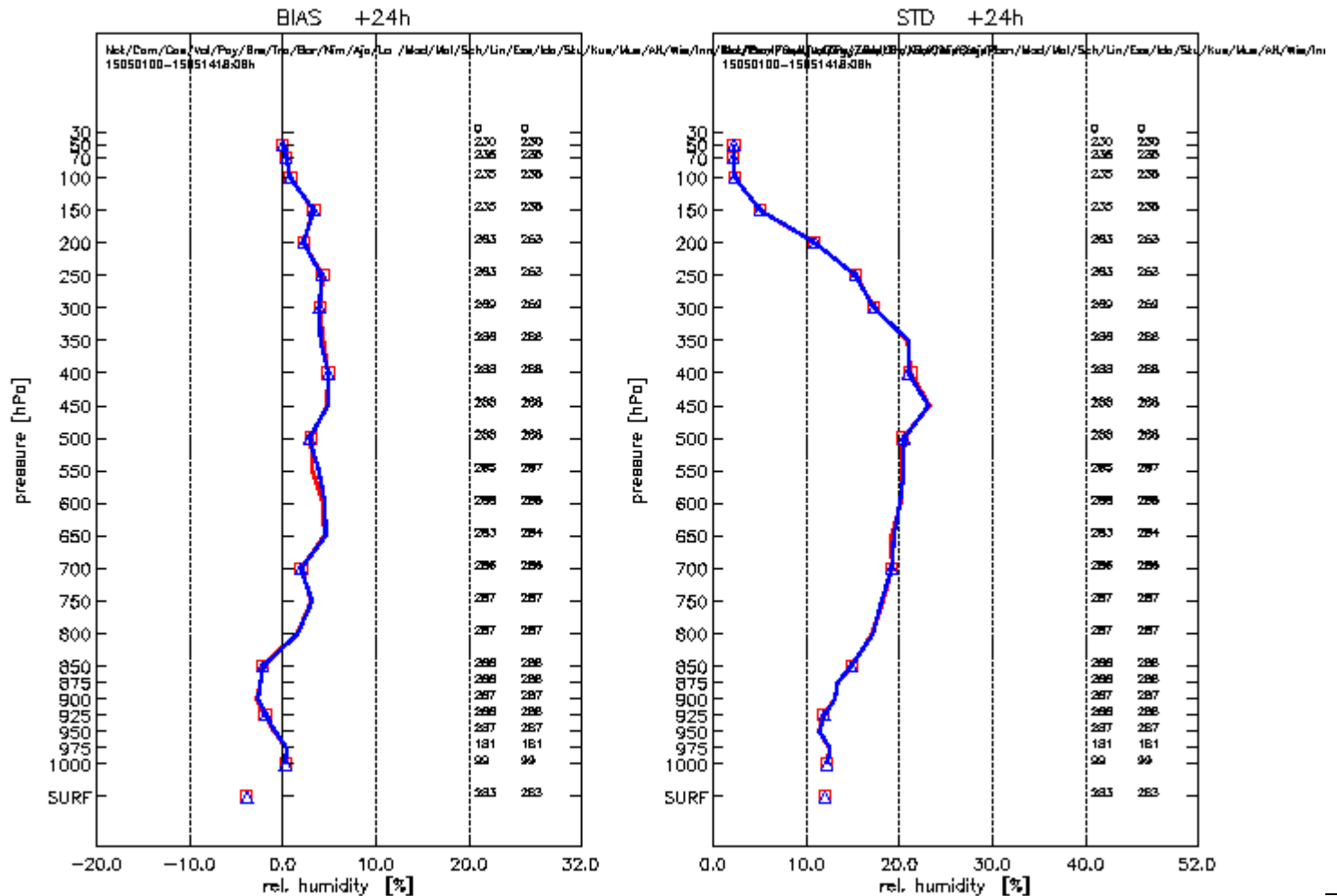


Vertical profiles

Rel. humidity

UA verification: COSMO-2 test-suite lasp_first (700) vs Ref (701) - May 2015

The included: varif-2-for/700f-00208-700f-may-act varif-2-for/700f-00208-701f-may-act



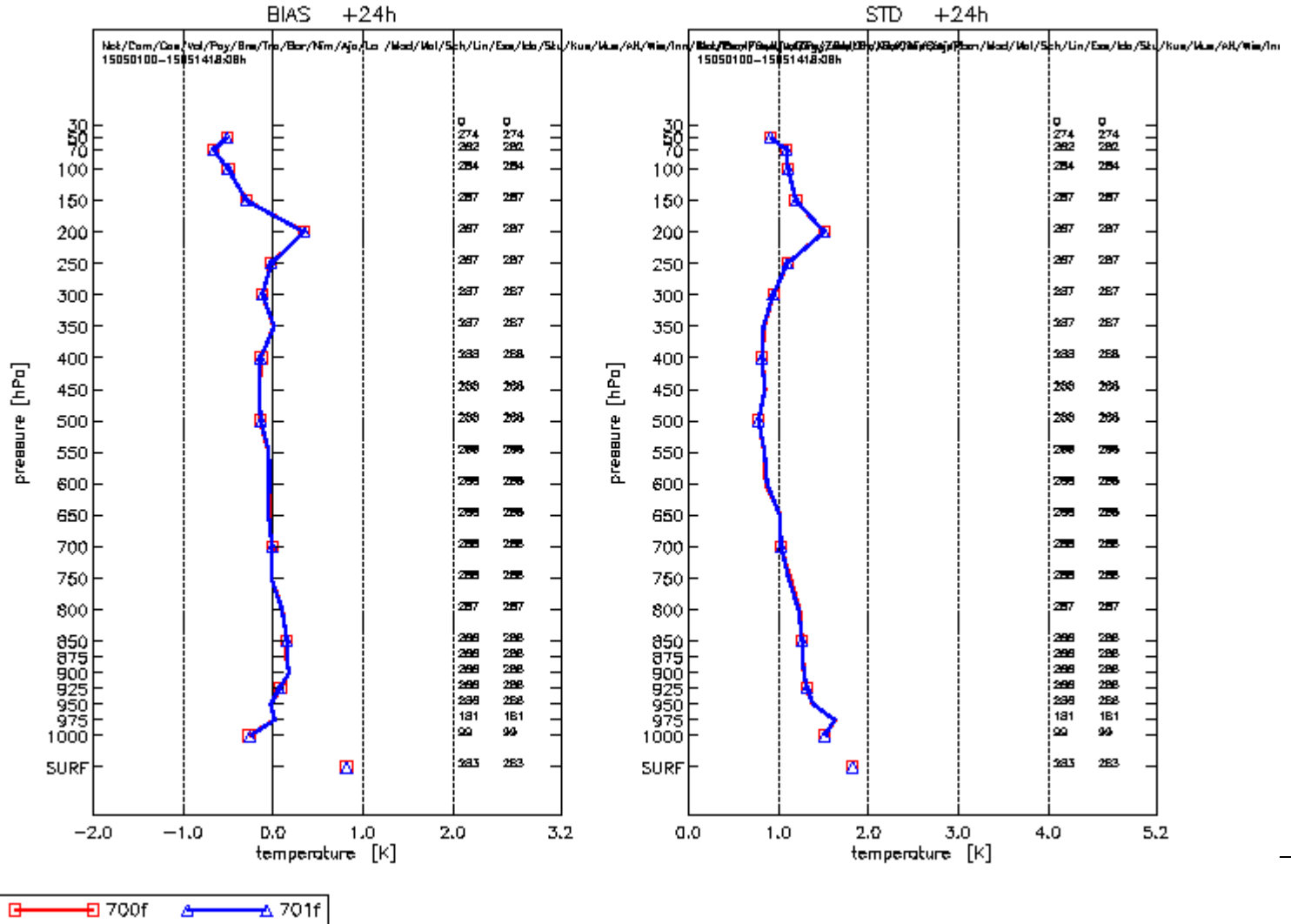


Vertical profiles

Temperature

UA verification: COSMO-2 test-suite lgsp_first (700) vs Ref (701) - May 2015

file involved: varf-2-for-700f-00208-700f-may-act varf-2-for-700f-00208-701f-may-act



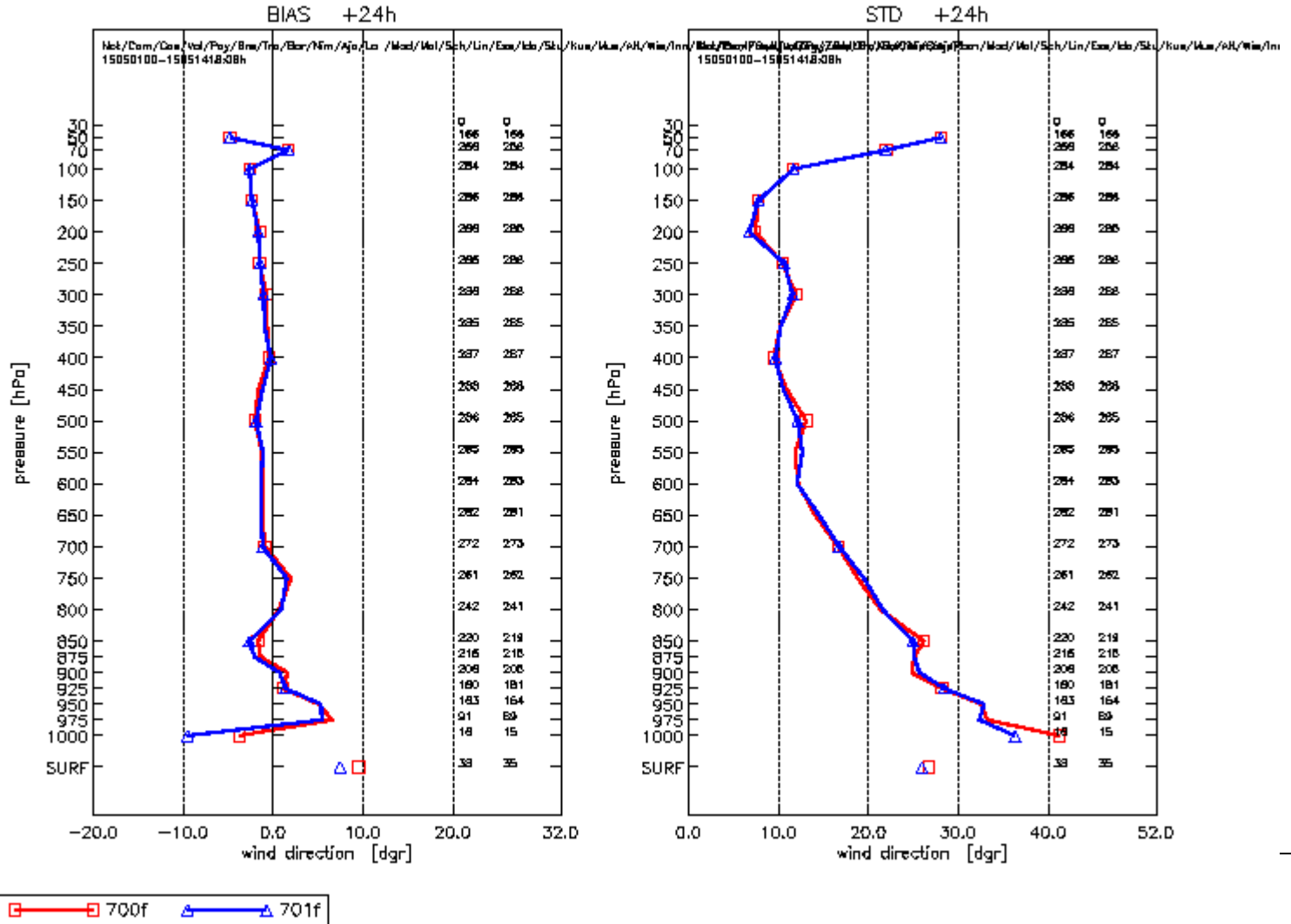


Vertical profiles

Wind direction

UA verification: COSMO-2 test-suite lqsp_first (700) vs Ref (701) - May 2015

file involved: varf-2-for/700f-00208-700f-may-act varf-2-for/701f-00208-701f-may-act





Conclusion

- The change of position of the microphysics has no impact on the verification scores