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Federal Department of Home Affairs FDHA  
**Federal Office of Meteorology and Climatology MeteoSwiss**

# Verification results POMPA branch



# Experiment setup

- Comparison period : 19.12.14 – 21.01.15
- COSMO-1 configuration (1 KM Grid over the alps)
- Verification results for Swiss stations

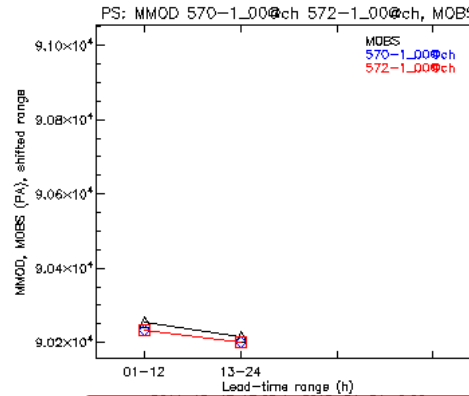
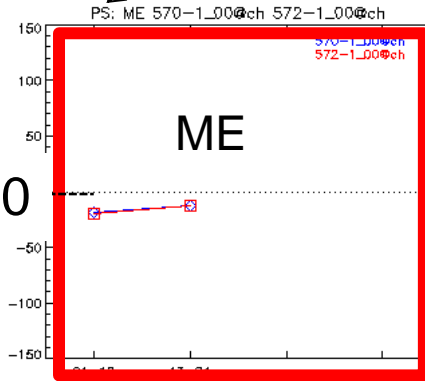
570	Reference : Cosmo 5.0 with a few MCH local changes
572	Experiment : POMPA branch (December 2014) Main differences: <ul style="list-style-type: none"><li>- switch assimilation and relaxation</li><li>- using cpp dycore</li><li>- src_lbc</li><li>- gscp first (microphysics called before all other physics)</li></ul>



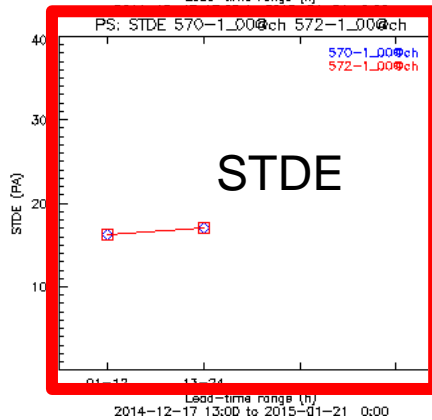
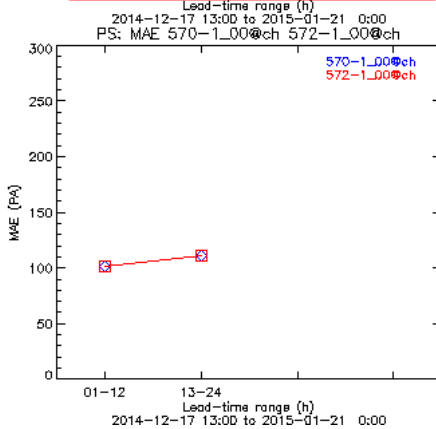
# Quick tour through the total scores

Variable name, here PS

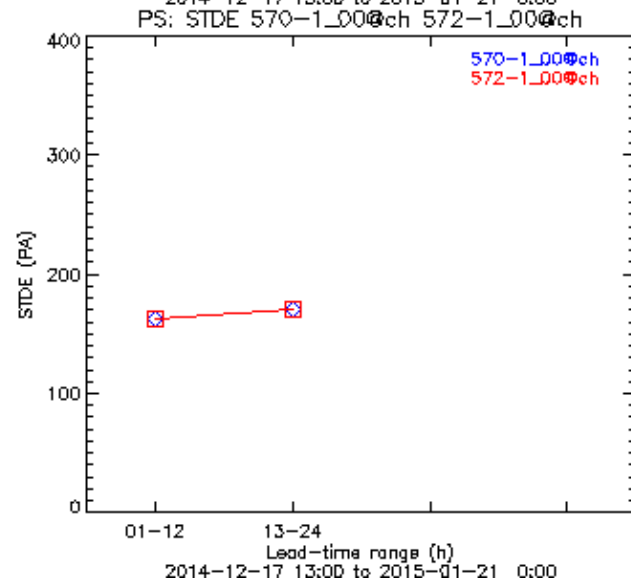
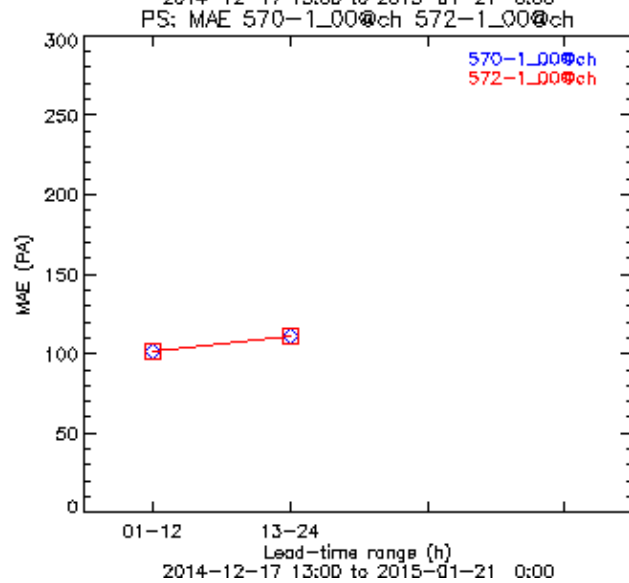
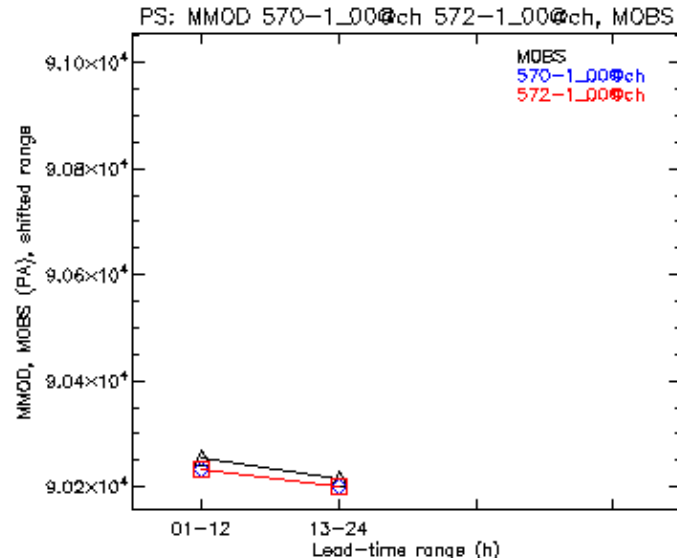
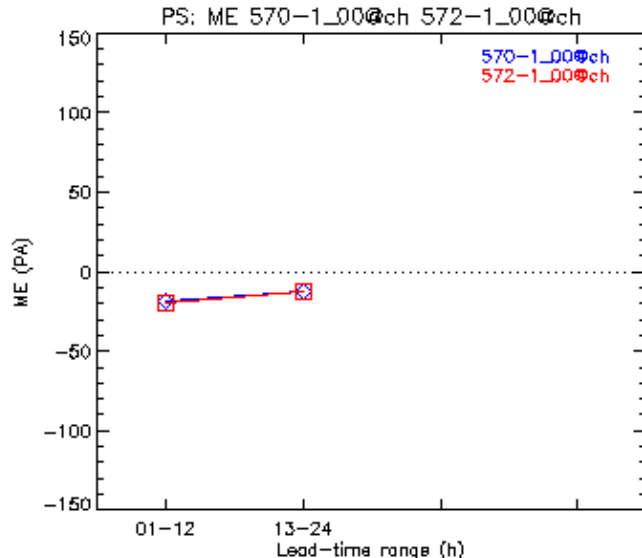
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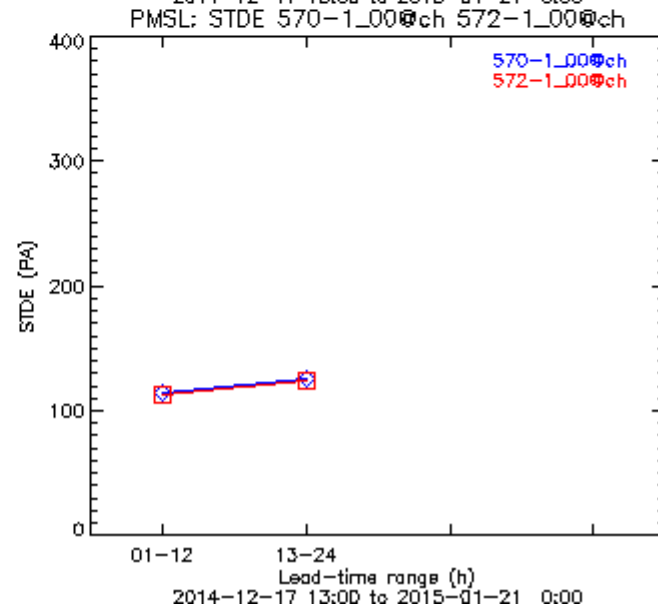
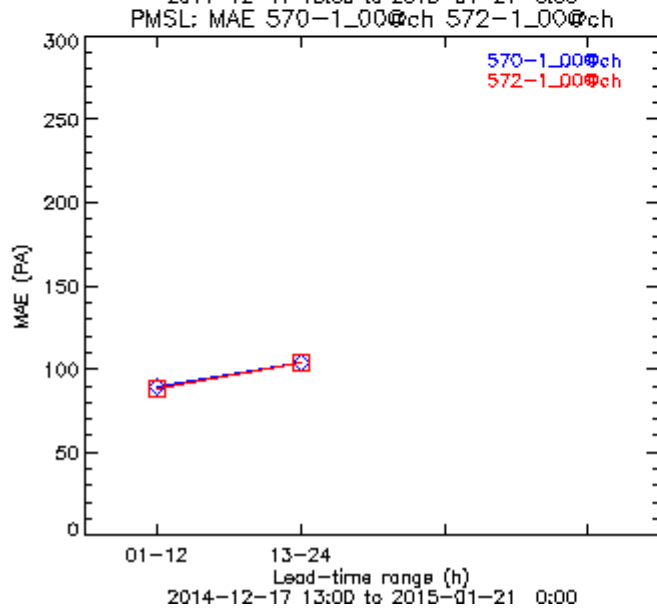
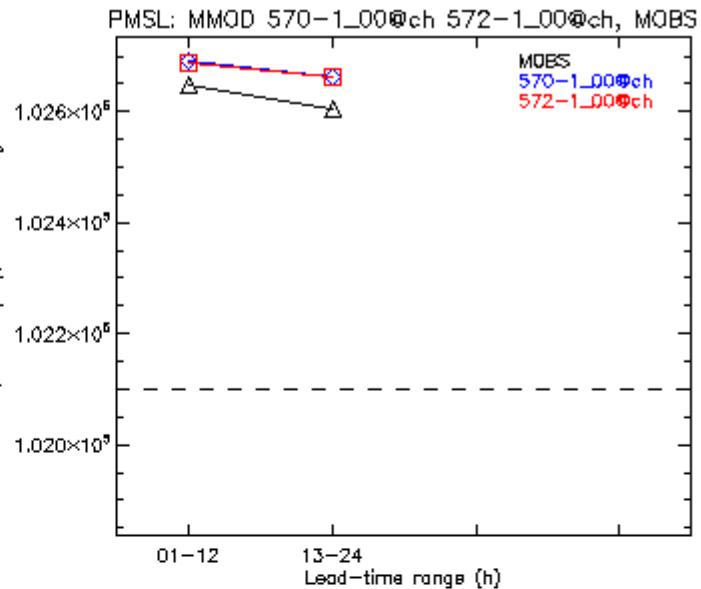
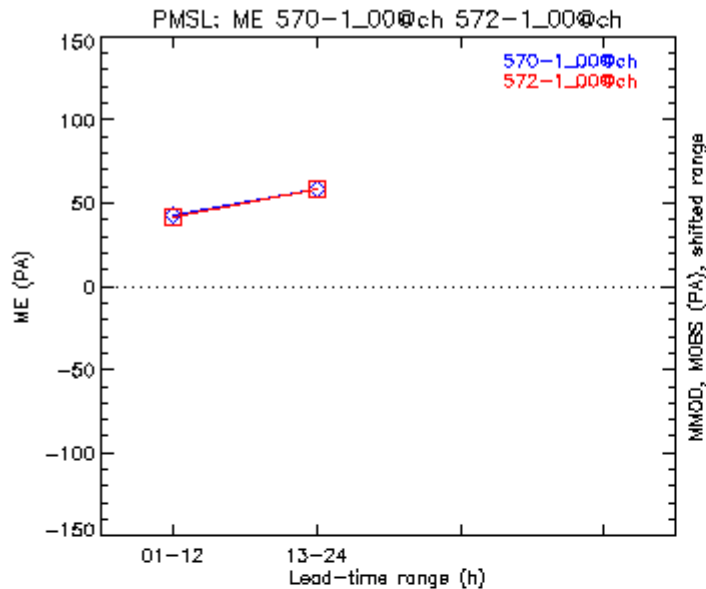


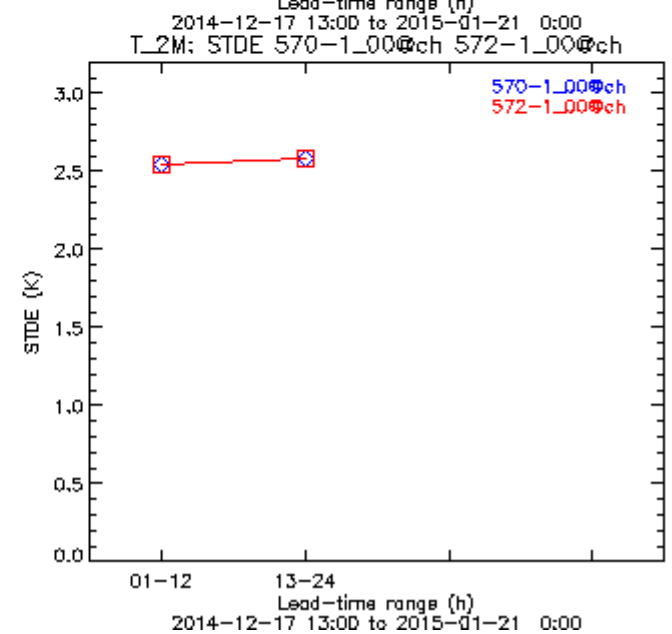
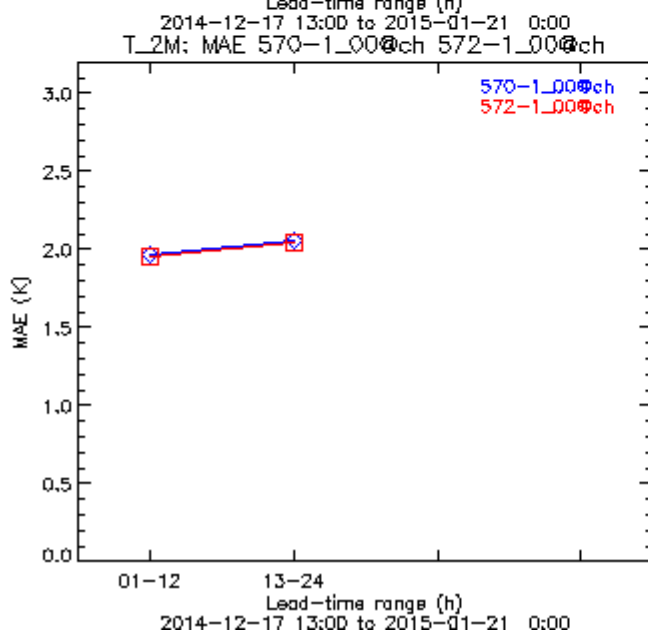
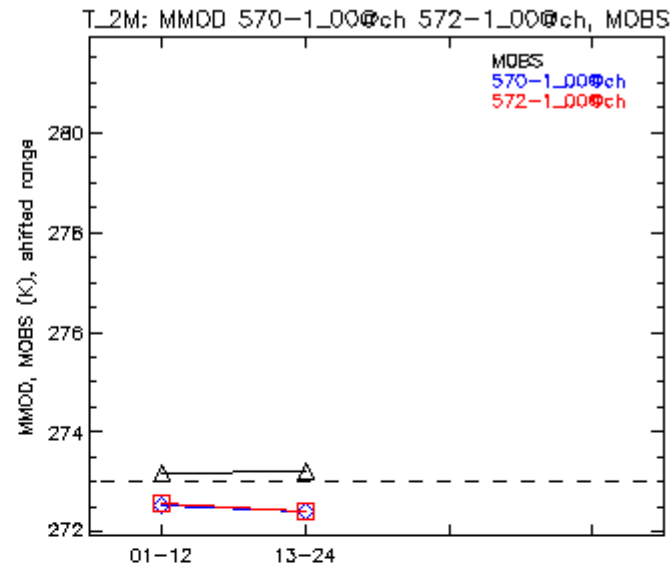
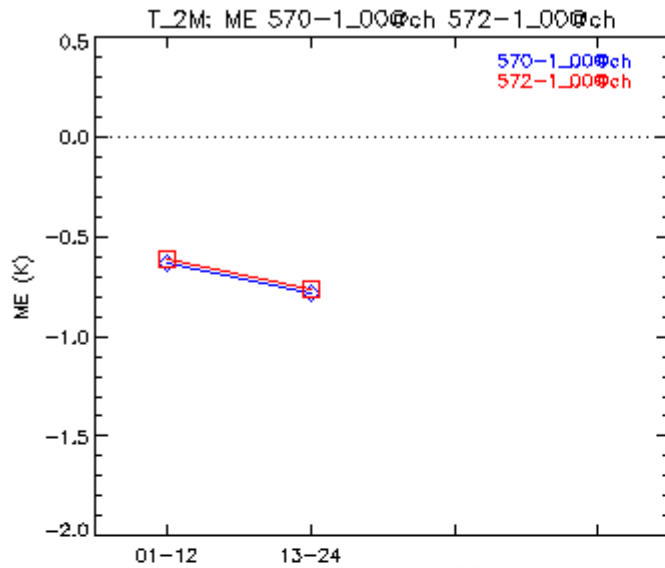
Important scores:  
- Mean error (ME - top left)  
- Standard deviation (STDE - bottom right)

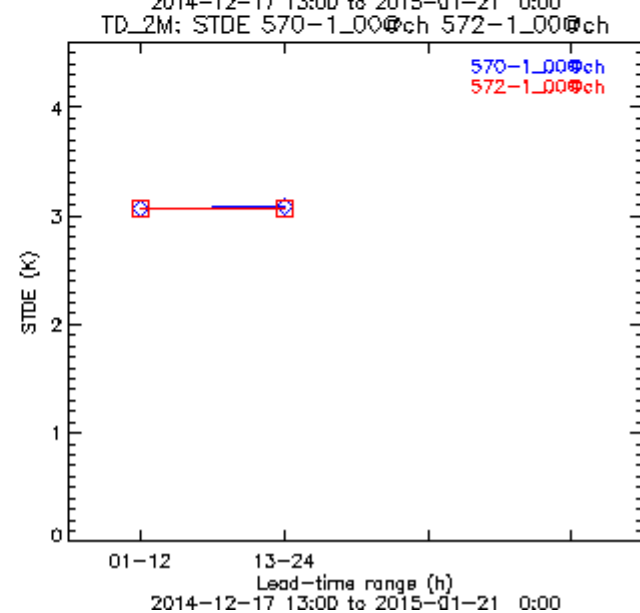
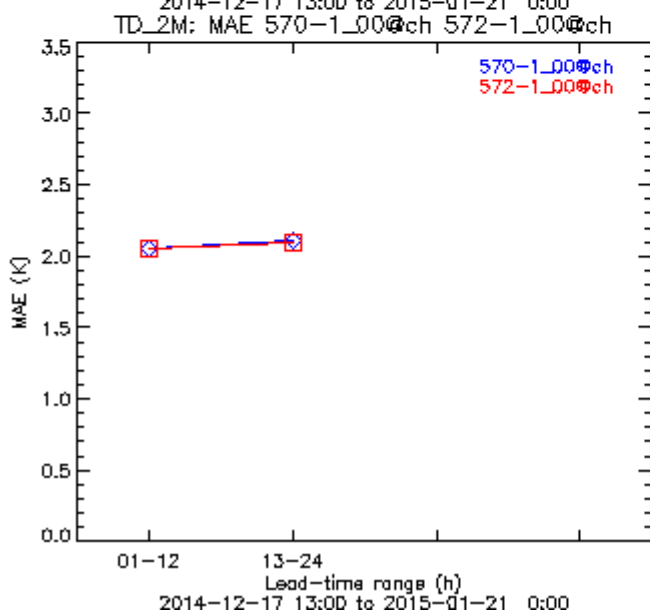
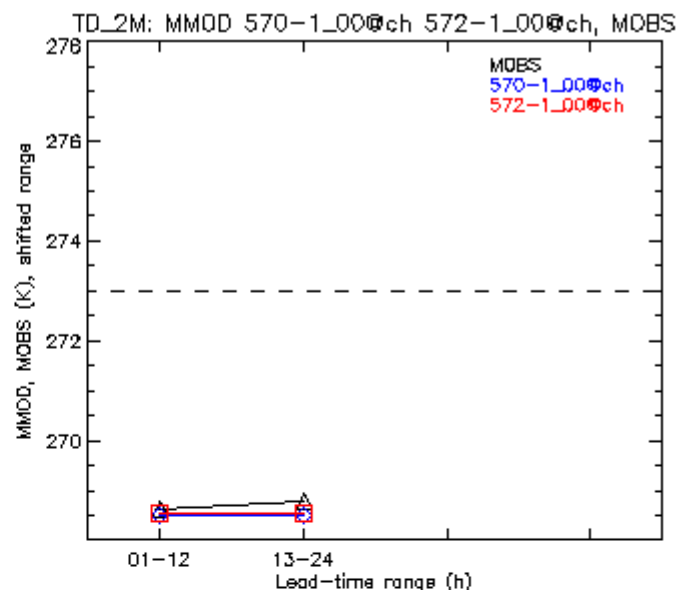
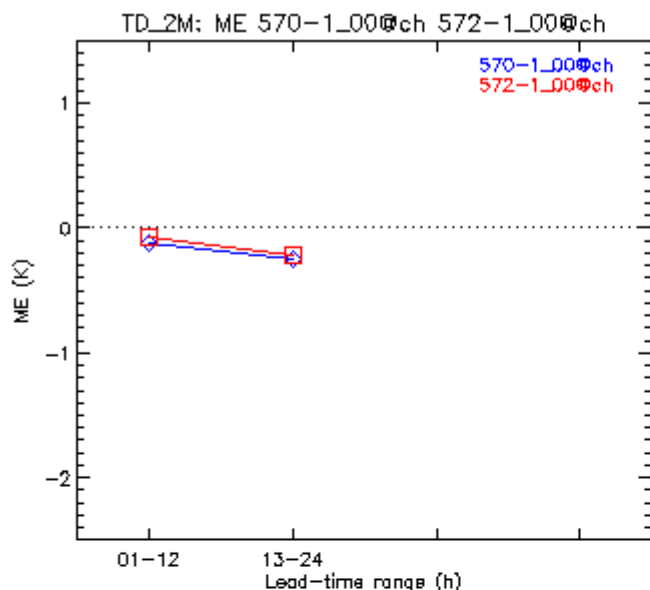


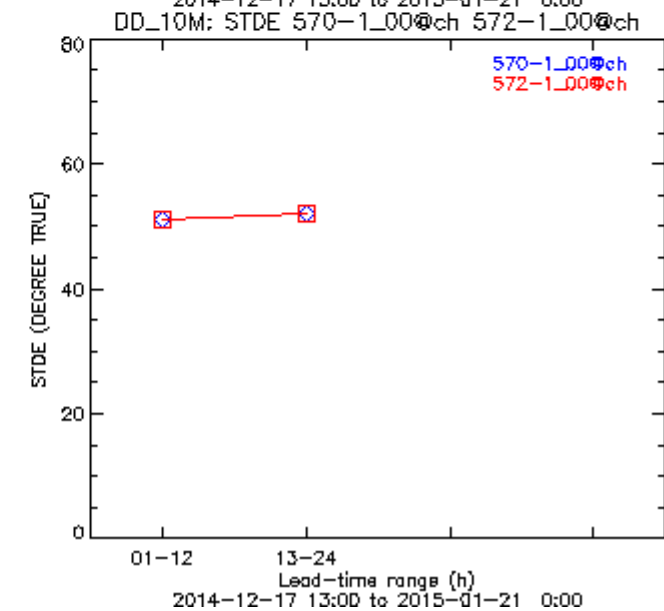
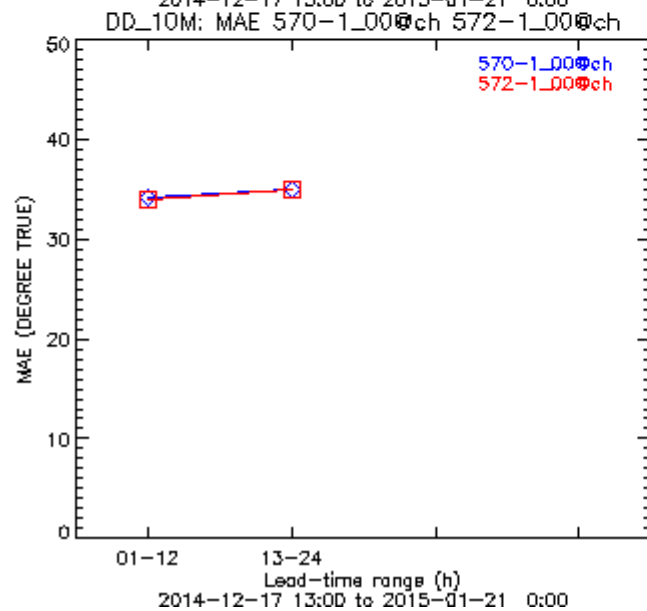
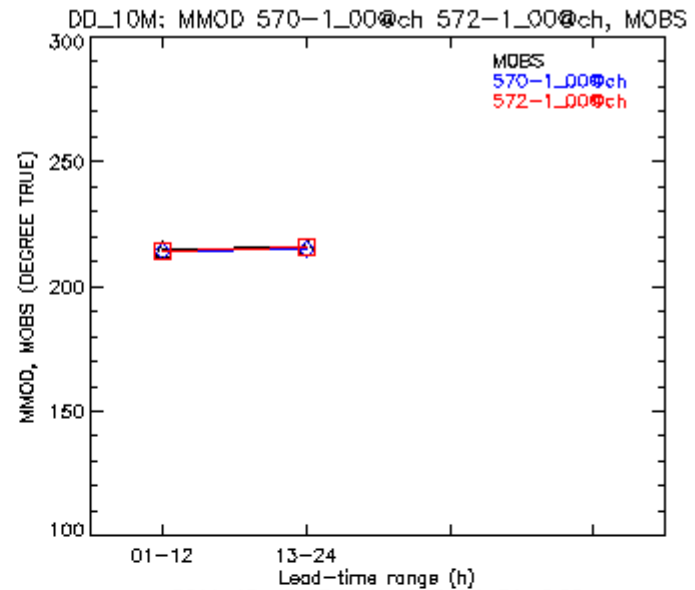
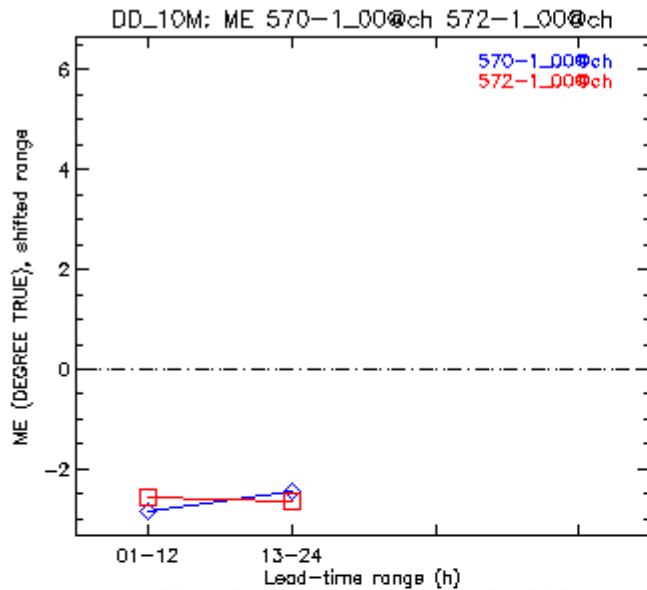
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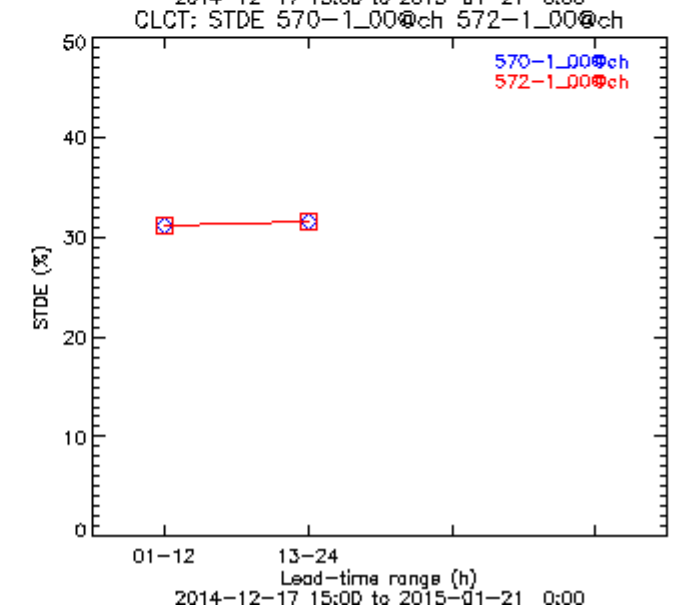
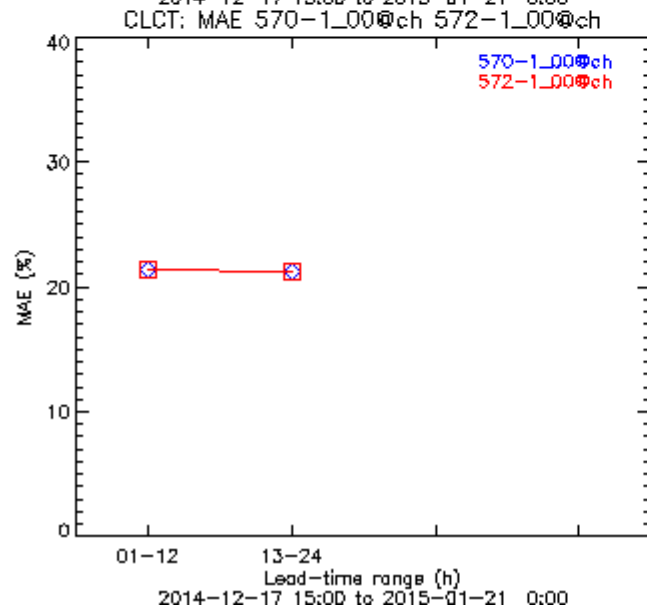
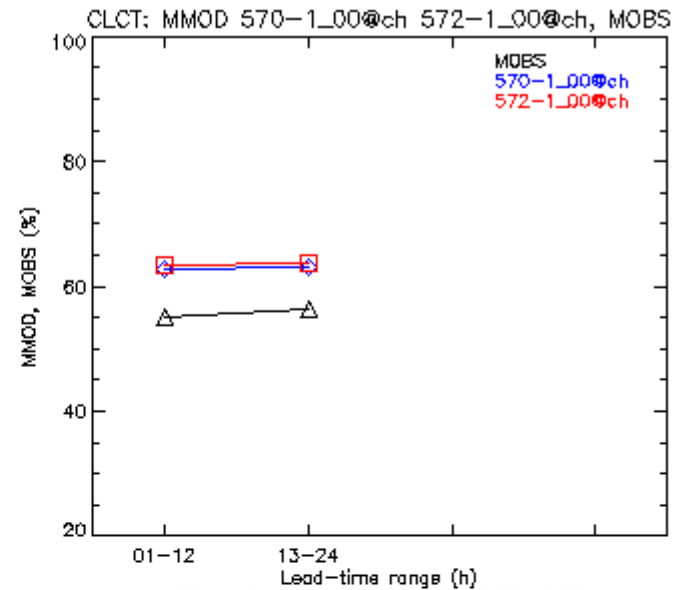
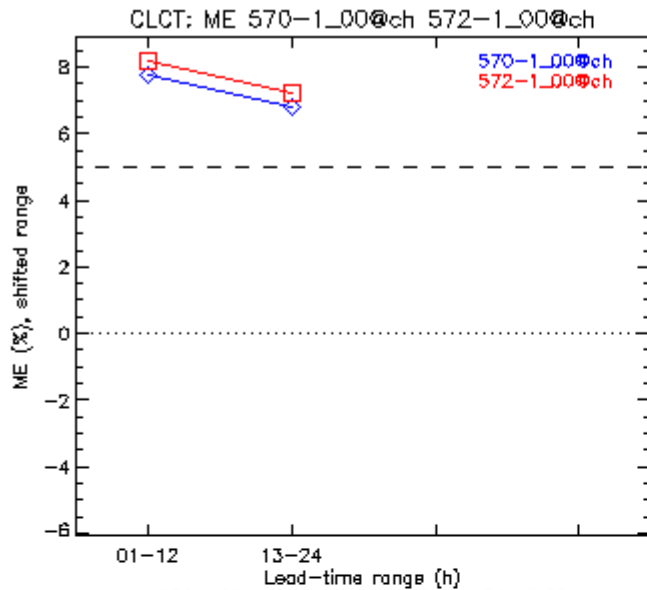


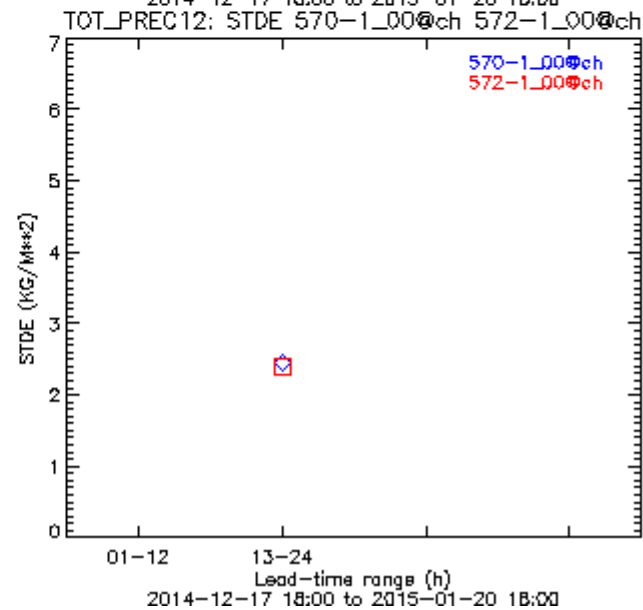
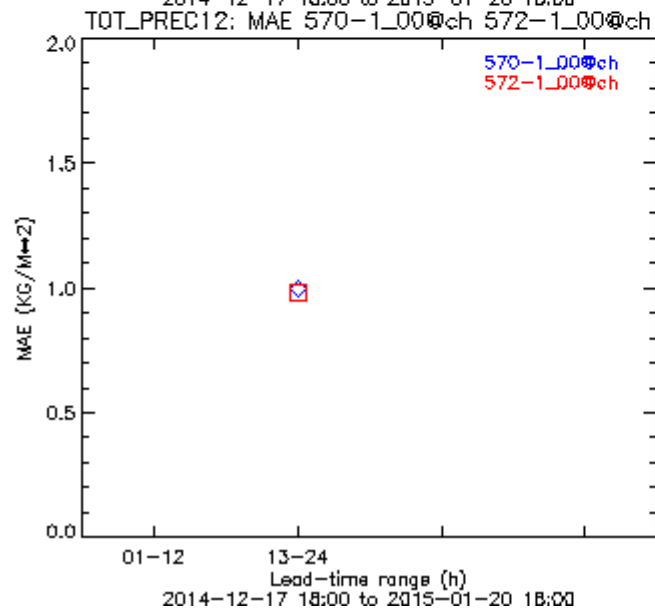
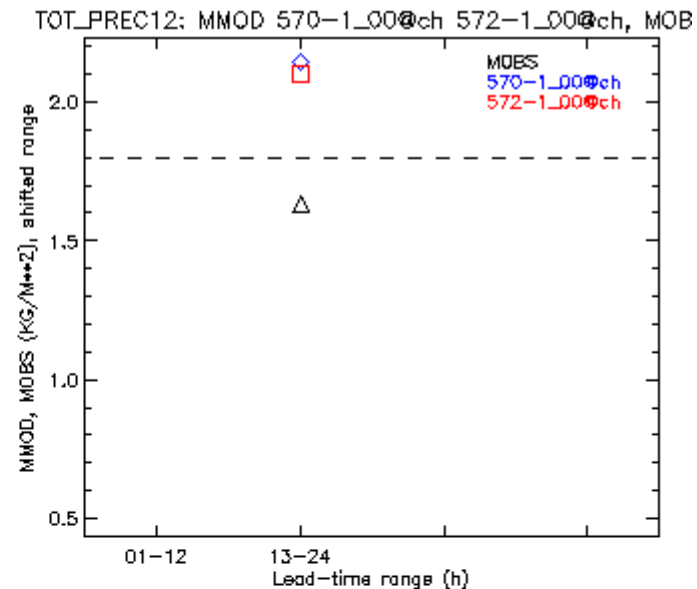
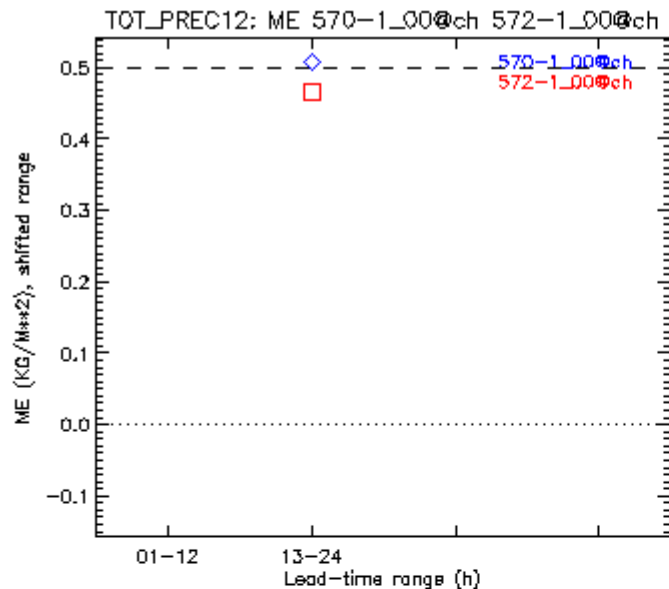


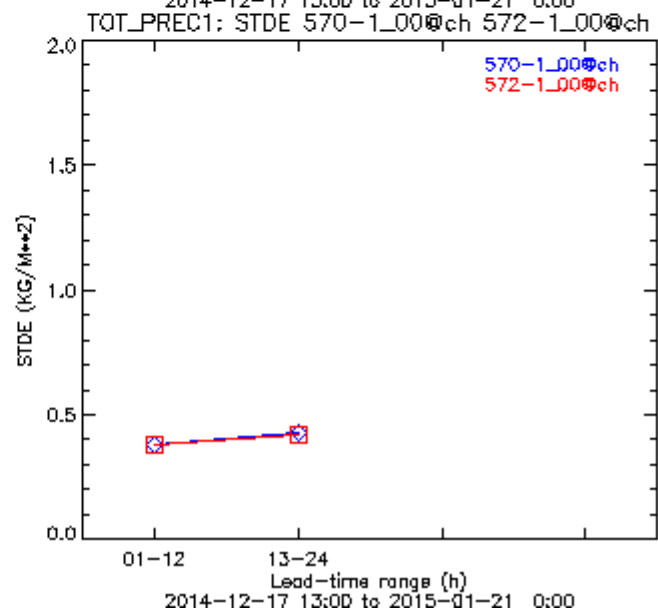
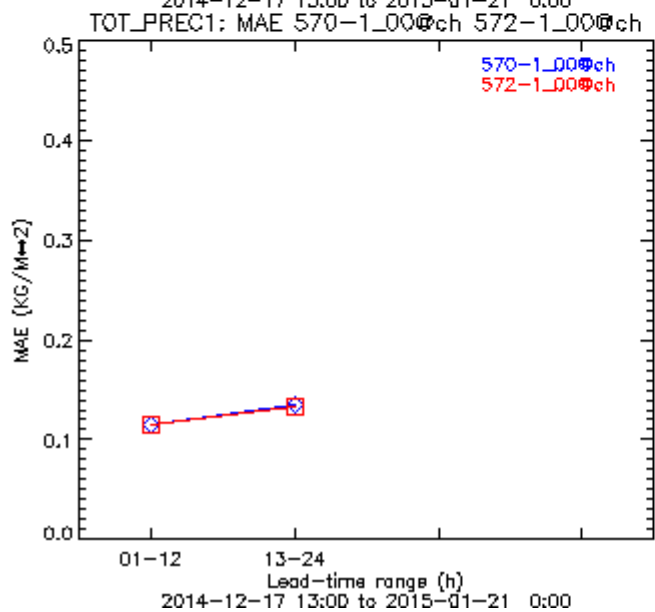
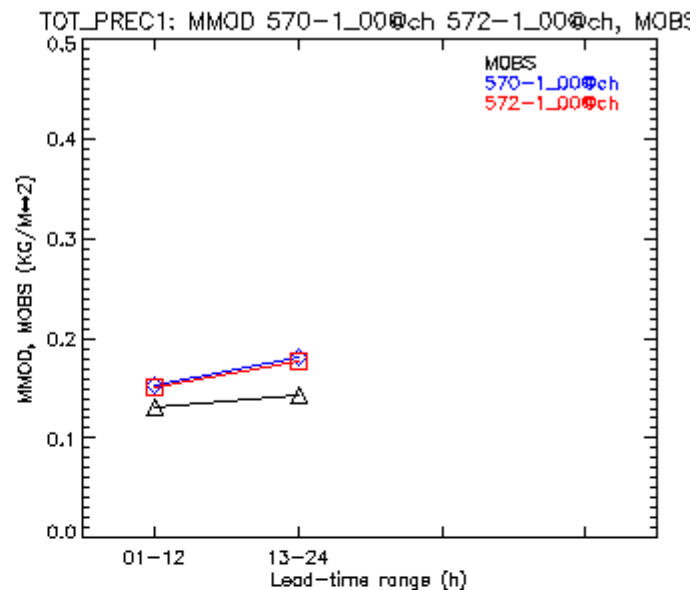
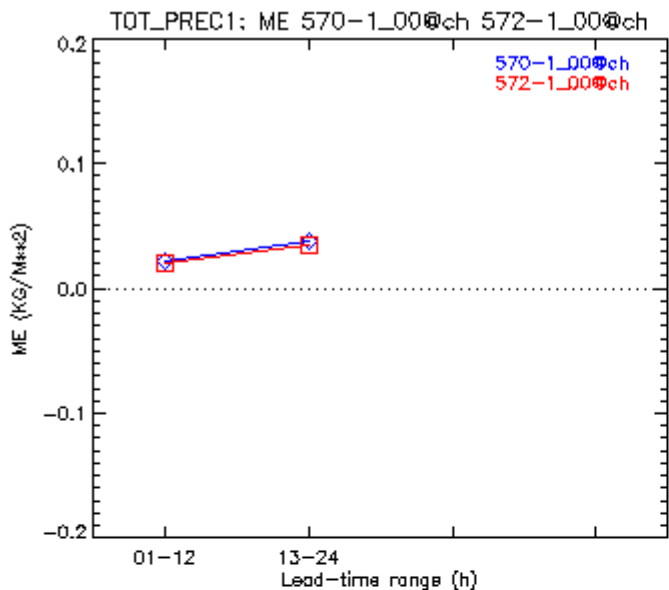


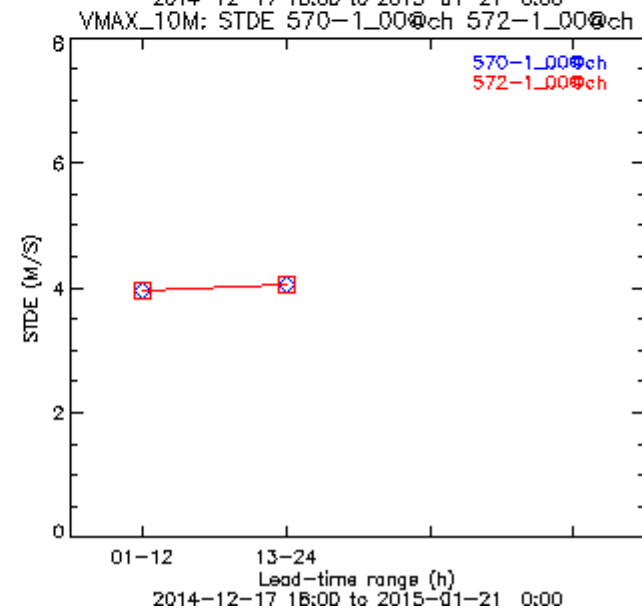
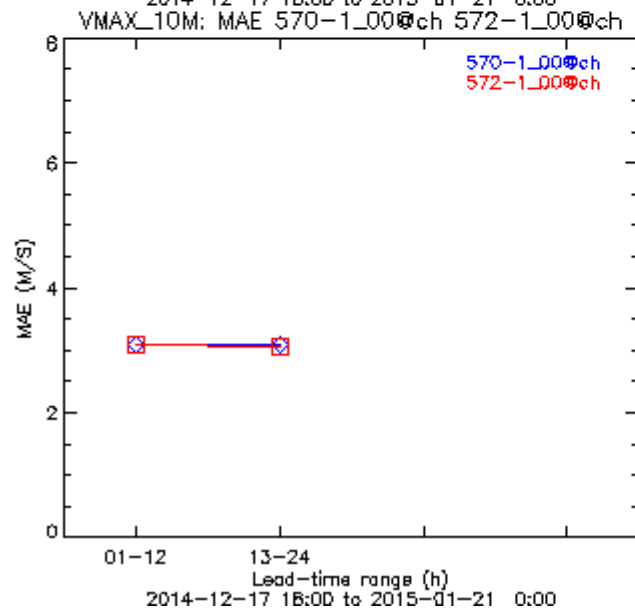
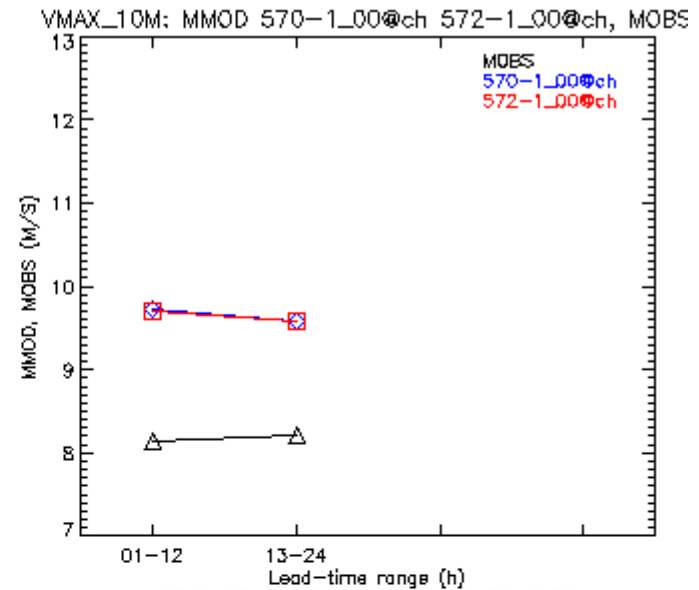
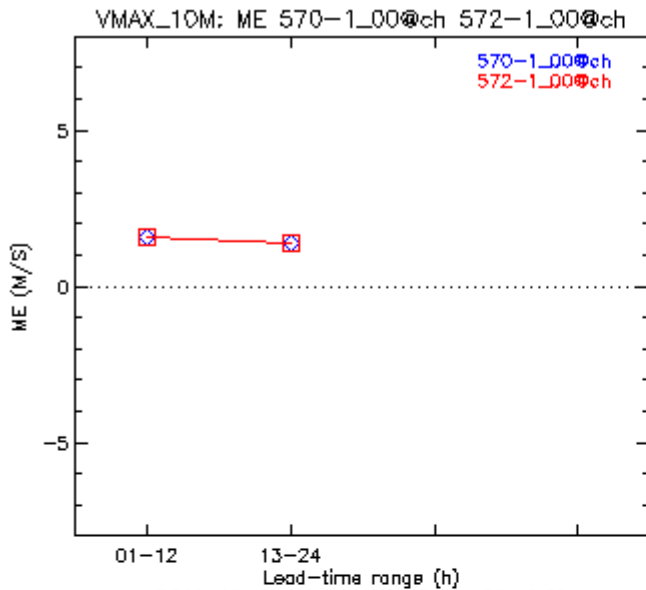


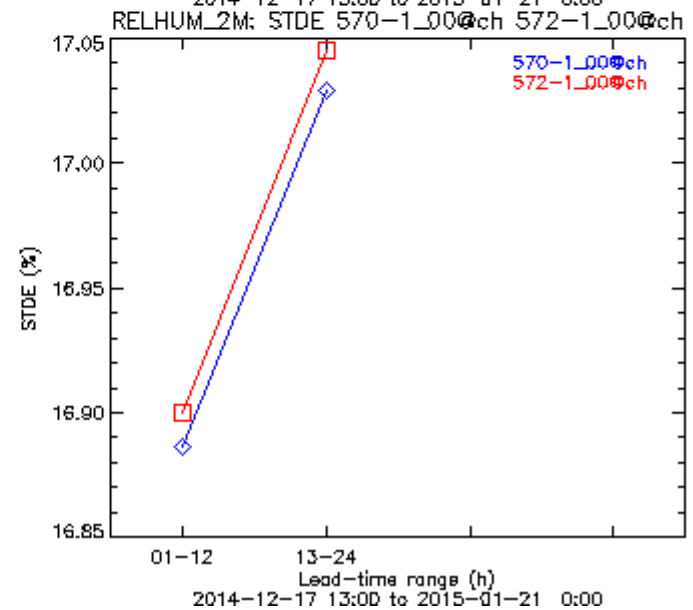
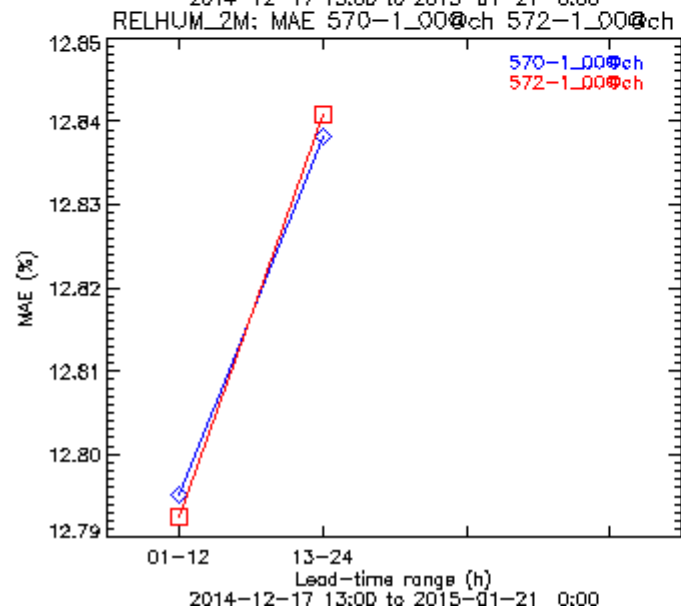
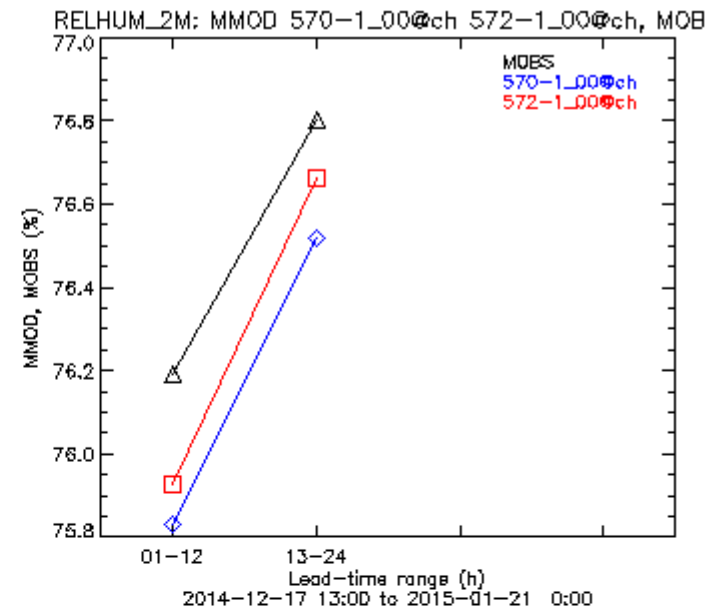
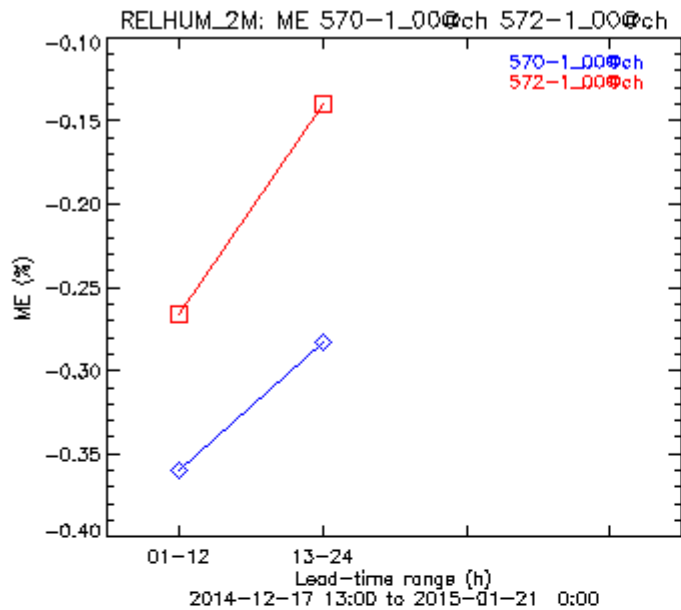


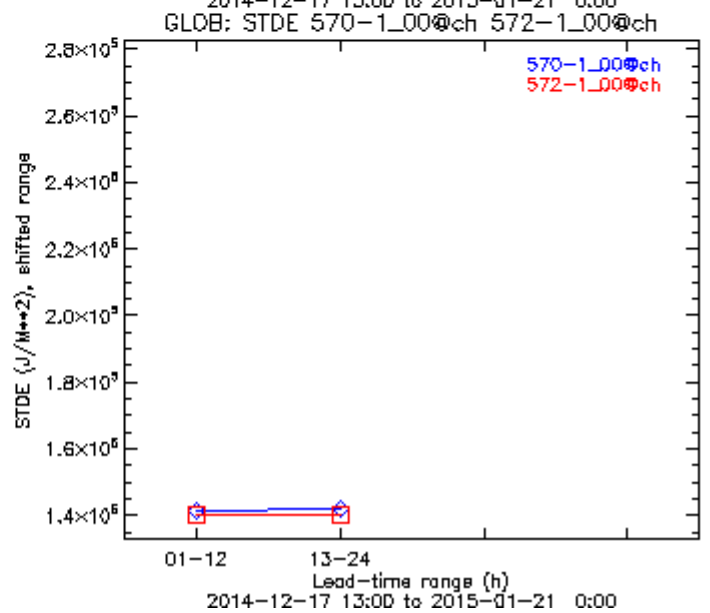
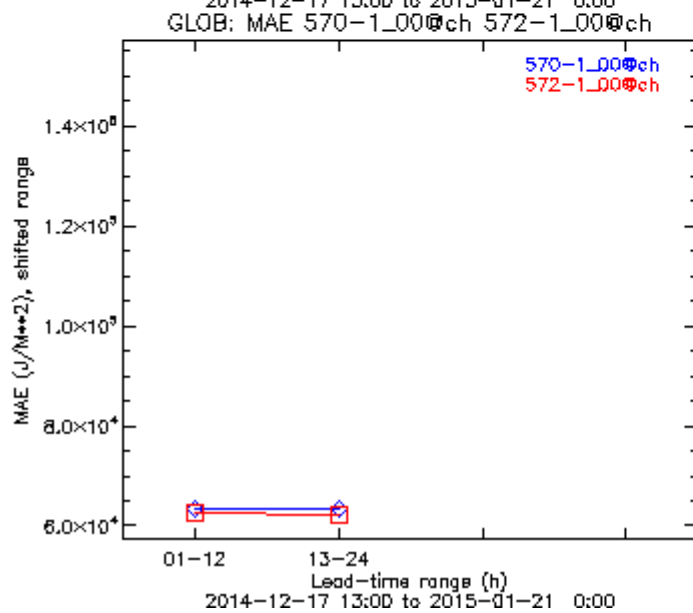
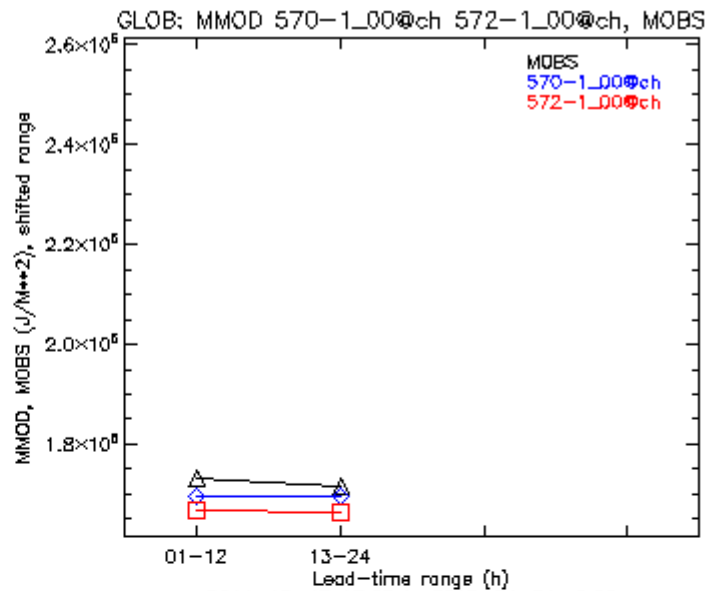
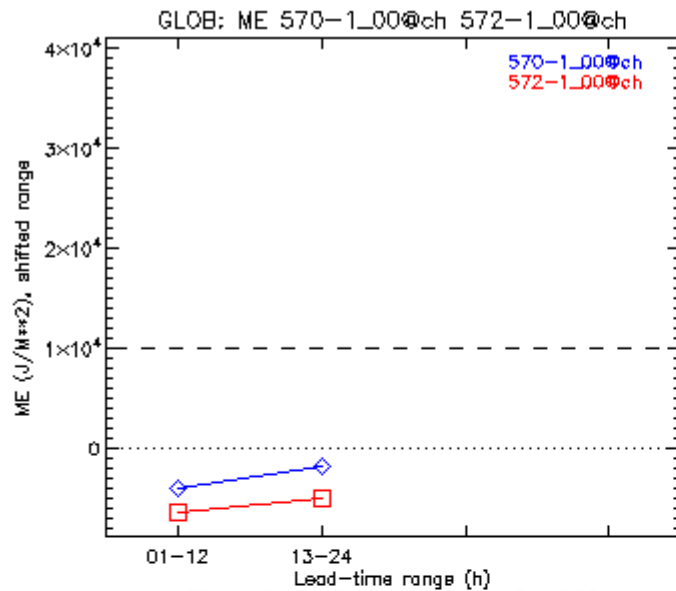














# Conclusions

- Changes are neutral for most parameters
- TOT\_PREC : slight reduction of positive bias
- REL\_HUM : slight reduction of negative bias
- GLOB : slight increase of negative bias