

# ***Interactive comment on* “Constraints on methane emissions in North America from future geostationary remote sensing measurements” by N. Bousseréz et al.**

**N. Bousseréz et al.**

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We would like to thank the anonymous referee for their useful remarks and suggestions that helped improve the manuscript. The revised version of the paper (see online supplement) includes significant modifications and new results that we hope address the referee’s comments. In particular, vertical model error correlations for the multi-spectral retrieval experiment are now accounted for, and a more realistic setup (using random noise instead of a single offset) has been adopted to test the sensitivity of the optimization to both boundary and initial conditions. Please find in the online supplement a pdf document with our detailed responses to the remarks and

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suggestions. Note that in addition to the new results produced to address the referee's comments, some errors were identified in our previous simulations and have been corrected since (in particular in the boundary condition sensitivity study). Therefore, the entire manuscript has been modified accordingly and in our responses we only point to the modifications directly related to the referee's comments and suggestions.

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/15/C12410/2016/acpd-15-C12410-2016-supplement.zip>

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 19017, 2015.

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