

Interactive comment on “The global tropospheric ammonia distribution as seen in the 13 year AIRS measurement record” by J. X. Warner et al.

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We appreciate very much the comments from Dr. Yurganov.

These are the issues that are taken into account in our algorithm, as summarized below: 1. Jacobian calculation is based on a fixed percentage of ppbv on each level. 2. SARTA layers have fixed pressure at the top (P_{top}) and the bottom (P_{bot}), so in each layer P_{bot} is always larger than P_{top} . Thus, it is not possible that dP equals to 0. 3. In any case on a particular level, if the mixing ratio is near 0, the calculation will be set to a minimum perturbation mixing ratio, instead of using a number near zero.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 35823, 2015.

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