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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Sulfur hexafluoride (SF_6) emissions in East Asia determined by inverse modeling" *by* X. Fang et al.

Anonymous Referee #3

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After reading the revised manuscript and the authors comments to my criticisms, I'm revising my answers to the three rating question, down one level. I don't understand how the model results are unaffected by emissions in India, while the authors calculate fairly precise emissions from the nearby southwest China region. I agree with the other reviewers on the uncertainties of these emissions in China while measurements are outside of China. Maybe a bootstrap analysis using the original EDGAR emissions would help. It would be useful to compare emissions to other results or a simpler model approach. I think that a major rewrite is in order with consideration to the reviewer's comments. I would cite the Hall et al., [2011] where the NOAA 2006 scale is mentioned.

Hall, B.D., G.S. Dutton, D.J. Mondeel, J.D. Nance, M. Rigby, J.H. Butler, F.L. Moore, D.F. Hurst and J.W. Elkins (2011), Improving measurements of SF6 for the study of

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atmospheric transport and emissions. Atmos. Meas. Tech., 4 (11) 2441-2451, issn: 1867-1381, ids: 863AS, doi: 10.5194/amt-4-2441-2011.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 21003, 2013.