Interactive comment on "Construction of non-diagonal background error covariance matrices for global chemical data assimilation" *by* K. Singh et al.

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1. A comment about the use of vertical correlations, planned in future work, has been added to conclusions.

2. Comments on the importance of the correlation lengths choice have been added to the abstract and conclusions.

3. Minor points. All have been corrected.

Please also note the supplement to this comment:

http://www.geosci-model-dev-discuss.net/3/C738/2011/gmdd-3-C738-2011-supplement.pdf

Interactive comment on Geosci. Model Dev. Discuss., 3, 1783, 2010.