

## ***Interactive comment on “Characterization of uncertainties in atmospheric trace gas inversions using hierarchical Bayesian methods” by A. L. Ganesan et al.***

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We thank Prof. Rayner for his review of our work. We agree that there are many directions that this methodology can be extended in the future. For example, we are actively investigating spatio-temporal covariance structures in model representations of atmospheric observations, and computational methods for the efficient exploration of the parameter space. We look forward to sharing our findings in future publications.

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