Response to Anonymous Referee

1. I still disagree with the authors' argument that their procedure presented in Section 4. They are just computing the conditional means and variances based on the previous time step, which are commonly used by both Bayesians and Frequentists. I think the authors got confused about the distinction between the conditional distribution and the posterior distribution. I strongly suggest that they remove the term 'Bayesian' there. It causes more confusion than clarification.

Author's response: We thank the reviewer for his clarification on Bayesian and Frequentists views and changed the title in section 4 from 'Bayesian sensitivity analysis' to 'Uncertainty analysis'.