Geoscientific
Model Development
Discussions

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Interactive comment on "3-D visualization of ensemble weather forecasts – Part 2: Forecasting warm conveyor belt situations for aircraft-based field campaigns" *by* M. Rautenhaus et al.

Anonymous Referee #2

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The manuscript demonstrates the use of 3-d visualization of probabilities. The probabilities are for WCB trajectories. Computation of the probabilities of trajectories in 3 dimensions is not trivial and the manuscript includes a nice discussion on the issue. I also liked the way of visualise the contributions to low probabilites. I would recommend the manuscript for publication after addresses the minor comments below.

1. I would the good to include a discussion about other applications for 3-d probabilities of trajectories. One example of another application would be atmospheric chemistry. 2. In Section 3.1 and option S3: What in the CPU timing of the vertical interpolation or is the computational cost very low? 3. On several places the model resolution is referred to as "spherical resolution". "Spectral resolution" is a better wording.

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