

Interactive comment on “Evaluation of lateral boundary conditions in a regional chemical transport model” by E. Andersson et al.

Anonymous Referee #1

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The paper discusses the impacts of different boundary conditions on the lateral boundaries in a regional modelling exercise over Europe and argues correctly that the boundary data coming from different sources must also be validated before being used in a regional model. The paper is very well written and easy to follow. I have a number of minor comments at this stage and think the paper is suitable for GMDD. 1) As the global version of the EMEP model is used to provide the dynamic boundary conditions to the MATCH model, more should be written on the global EMEP model in the methodology part, rather than the regional version of the EMEP model. 2) Why only January and August are used for validation? 3) Page 18, line 8: What is meant by the long term average here? the whole simulation mean? 4) Why the authors prefer not to smooth model data for the 500 hPa analyses in section 3.3? 5) Is Table 1 caption missing CO?

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