



Interactive
Comment

Interactive comment on “Modeling and computation of effective emissions: a position paper” by R. Paoli et al.

R. Paoli et al.

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- 1) As suggested by one of the referees, paper best fits the idea of a review of existing methods rather than a position paper (the title has then been changed as: “Review of effective emission modeling and computation”).
- 2) Yes, the peculiarities of maritime transport have been indicated in the revised version in the Introduction and in the Conclusions.
- 3) The sketch in Fig. 7 has been clarified.
- 4) Common response to the three referees. We agree that validation is a critical task for atmospheric models. In addition to validation, verification is another important ingredient to assess the quality of physical models or computational methods as those

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described here. We added a new section (Sec. 6 in the revised version of the paper) to discuss these problems.

Specific comments

1) We added a table in the conclusions summarizing the key features of each method and their differences.

2) We reduced the number of equations and add a comment in Sec. 1 (besides Conclusions) on the consistency of effective emissions for heterogeneous chemistry.

3) We corrected

Interactive comment on Geosci. Model Dev. Discuss., 4, 137, 2011.

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