

Interactive  
Comment

***Interactive comment on “TransCom continuous experiment: comparison of  $^{222}\text{Rn}$  transport at hourly time scales at three stations in Germany” by S. Taguchi et al.***

**Anonymous Referee #3**

Received and published: 5 September 2011

General comments:

This is a well-written, well organized, and thorough paper. The manuscript used  $^{222}\text{Rn}$  measurements at three continental stations in Germany to evaluate the simulation of  $^{222}\text{Rn}$  from 14 global atmospheric transport models. The findings are valuable. I recommend accepting this manuscript after minor revisions.

Specific comments:

1. Section 2.1, page 19260, line 15: I can't follow the equation for the corrected Freiburg values.

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2. Section 2.2, page 19262, line 3-5: I am interested in the BLH comparison between radiosonde and ECMWF. Which method did you use to determine the BLH from the radiosonde observations? Why did you think there is no evidence of inconsistency between observations and ECMWF?

3. Section 3, page 19262, line 19-22: The reported BLH from 14 models may be determined from different algorithm. Do you think this will have any impacts on your comparison results?

4. Section 4.3, page 19266, line 1: Please define NSD.

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 19253, 2011.

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