Atmos. Chem. Phys. Discuss., 5, S2280–S2281, 2005 www.atmos-chem-phys.org/acpd/5/S2280/ European Geosciences Union © 2005 Author(s). This work is licensed under a Creative Commons License.



ACPD

5, S2280-S2281, 2005

Interactive Comment

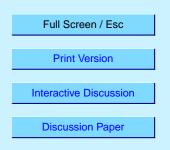
Interactive comment on "Sensitivity of Global Modeling Initiative chemistry and transport model simulations of radon-222 and lead-210 to input meteorological data" by D. B. Considine et al.

Anonymous Referee #2

Received and published: 29 August 2005

The paper describes 222Rn and 210Pb simulations. All with the same model but with meteorology that comes from different sources. I found the paper interesting to read, but failed to extract much new information out of it. The paper remains a number of figures with attached thorough discussion. The use of the RANDAB database is new. I have only some minor comments.

I miss some reference to the intercomparison paper of Dentener et al.: Dentener, F., J. Feichter and A. Jeuken, Simulation of Radon222 using on-line and off-line global models, Tellus 51b, 573-602, 1999.



On page 5328, line 17: should be superior to... I disagree with the wording here. I understand that the advantage is that you separate the effect of meteorology, but using 'suprior' suggests major flaws in other intercomparisons. I would suggest, 'has the advantage compared to other aproaches'

Page 5330, line 2, near the tropopause. I would add 'in the tropics'

Page 5332: A large part of this section seems a repetition of earlier paragraphs.

Page 5334: "suggesting thet annually averaged 222Rn emissions....too large". Could this theoretically also mean that transport is too slow? I would suggest to also put the spread in the model average, similar to the spread in the measurements.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 5325, 2005.

ACPD

5, S2280-S2281, 2005

Interactive Comment

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper