

Interactive comment on “Online coupled regional meteorology-chemistry models in Europe: current status and prospects” by A. Baklanov et al.

J. Kukkonen

jaakko.kukkonen@fmi.fi

Received and published: 27 May 2013

I have written this comment, as the article by Baklanov et al. that addresses online coupled meteorology-chemistry models in Europe seems to be similar to a previous article published in ACP by myself and a number of colleagues (Kukkonen et al. 2012, ACP, "A review of operational, regional-scale, chemical weather forecasting models in Europe", <<http://www.atmos-chem-phys.net/12/1/2012/acp-12-1-2012.html>>). The first interactive comment on this manuscript by Prof. D. Schultz (who was one of the key authors of our previous article) also compared the manuscript by Baklanov et al. to our previously published article. Prof. Schultz also presented valuable comments and suggested a number of revisions.

C2796

Although these two articles are similar in structure, there are also important differences. First, the models addressed by Baklanov et al. are of a different type (coupled meteorology-chemistry models), while we addressed chemical transport models. Second, the scope and focus is also different (as it should be) in this new article, e.g., more on aerosol and radiation effects (as these are the processes that affect mostly the feedbacks through the coupling), less on e.g. deposition processes. My conclusion is that the new article would not be overlapping, but complementary to the one written previously by myself and the team.

In summary, in my opinion the new article by Baklanov et al. would be a valuable contribution, and should be accepted to be published, after some revisions. This article is the first comprehensive review of European online models written up to date. The material presented would form a useful source of information for scientists working in this field not only in Europe, but globally.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 12541, 2013.

C2797