

Interactive
Comment

***Interactive comment on* “The response of the
terrestrial biosphere to urbanization: land cover
conversion, climate, and urban pollution” by
K. Trusilova and G. Churkina**

Anonymous Referee #1

Received and published: 30 July 2008

1. General comment: Very important paper in the field of CO₂ mitigation and city influences on the urban CO₂ level. Urban contributions to CO₂ levels including other pollution problems are still not frequently treated in scientific publications; however, the importance of cities in this field is crucial. The paper should be published. 2. Specific comment: The literature of the urban heat island dimensions should be discussed with more details from the literature (e.g. Oke, Univ. British Columbia) as well as the urban influences on precipitation (mostly in summer enhanced convective precipitations on the leeward side of cities, no influence in winter precipitation, e.g. Changnon with the Metromex St. Louis project). Finally, a distinction of different types of cities with more or less vegetation and with more or less high rise buildings should be made and

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discussed, even if a more detailed modelling taking into account this details is actually not (yet) possible. 3. Technical corrections: For technical corrections see Referee # 2

Interactive comment on Biogeosciences Discuss., 5, 2445, 2008.

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