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Interactive comment on “Comment on “Carbon farming in hot, dry coastal areas: an option for climate change mitigation” by Becker et al. (2013)” by M. Heimann

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Received and published: 18 November 2013

Response to anonymous referee #1

The variant of the "Bern" model used is the response function representation of the Bern2.5CC model of Joos et al., 2001 as given in IPCC WGI AR4 chapter 2 by Foster et al., 2007. This has been clarified in the text.

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Response to anonymous referee #2

I agree with referee #2 in that this comment challenges only a certain assertion and that the main conclusions of the original paper by Becker et al. 2013 are valid. However, the point addressed here refers not only to a single sentence, but to the final part of subsection 3.1 in which global consequences from extensive *Jatropha curcas* afforestation are discussed in terms of the corresponding stabilisation and even reduction of the atmospheric concentration. The paper by Becker et al. 2013 has also been highlighted on the EGU Journal Watch page which has subsequently been cited in the popular press in Germany. It is therefore important from for policy implications that this erroneous claim is corrected in the refereed literature. The introduction of the comment has been revised to make this point more clear.

Interactive comment on Earth Syst. Dynam. Discuss., 4, 869, 2013.

ESDD

4, C610–C611, 2013

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