

Interactive comment on “Nested atmospheric inversion for the terrestrial carbon sources and sinks in China” by F. Jiang et al.

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Received and published: 24 February 2013

A nested atmospheric inverse system with a focus on China using the Bayes theory was developed for estimating carbon fluxes, monthly inverse modelling was conducted using CO₂ concentration measurements, spatial and temporal characteristics of the global and China terrestrial ecosystem carbon fluxes were investigated. The research topic is interesting, and the manuscript is within the scope of the journal Hydrology and Earth System Sciences (HESS). This manuscript is well written as a whole, but it needs minor revisions. The comments and suggestions are listed as follows: 1. Line 26-28: “At the present, China has become the largest CO₂ emitter in the world, and will continue to increase in the near future due to with population growth and economic development.” Is it your conclusion ? Otherwise, it should be cited. 2. Section 2: The

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nested inversion system developed by Deng et al.(2007) was used in this research for the inversion regions using the transport modeling TM5. If the authors use a different transport model from TM5, please explain why.

Interactive comment on Biogeosciences Discuss., 10, 1177, 2013.