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## ***Interactive comment on “Distinguishing the drivers of trends in land carbon fluxes and plant volatile emissions over the past three decades” by X. Yue et al.***

### **Anonymous Referee #1**

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This paper represents valuable evaluations of the changes in major land carbon fluxes and plant volatile emissions, and interesting analysis of the causes behind those trends using the latest YIBs model. The topic is important and the work is very systematic. The reviewer recommends acceptance with minor revisions based upon the suggestions mentioned below. 1. For the section 2.1 in Page 21453, the MTE GPP product was not derived from any biosphere model. Please refer to (Jung et al., 2009) and put correct description. 2. Please let the readers know whether those regional trends in Table 2 and 3 are significant. 3. In the Results part, the authors compared YIBs simulations with a lot of previous work, such as Sitch et al. (2015), Pan et al.

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(2011), Stavrakou et al. (2014), Naik et al. (2004), and Jeong et al., 2011. Please subtract them and merge them into the Discussion.

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 21449, 2015.

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