

## ***Interactive comment on “How past fire disturbances have contributed to the current carbon balance of boreal ecosystems?” by C. Yue et al.***

### **Anonymous Referee #2**

Received and published: 8 October 2015

Yue et al.: How past fire disturbances have contributed to the current carbon balance budget of boreal ecosystems?

The contribution of fire disturbance to the current carbon balance have been estimated using ORCHIDEE-SPITFIRE simulations. Overall the authors conclude that fires form a net carbon sink of 0.06 PgC/year, which is 6% of the regional carbon sink. This is an important finding, and a highly relevant topic for Biogeosciences. The manuscript is extremely well written and structured. The method are clearly described and the shortcomings of the ORCHIDEE-SPITFIRE model are discussed in much detail based on model data comparison as well as comparison to previous studies. I recommend publication with some minor modifications (see below).

C6337

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Interactive Discussion

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Title: This is actually not the question – you might want to remove the ?

Page 14839, Line 25: intensive?

Page 14840, Line 3: As it is written now the 2nd part is the sum of all contributions.

Page 14841, Line 15,: Couldn't equation 2-4 already use NBP?

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Interactive comment on Biogeosciences Discuss., 12, 14833, 2015.

**BGD**

12, C6337–C6338, 2015

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