

## ***Interactive comment on “Estimating the open biomass burning emissions in Central and Eastern China from 2003 to 2015 based on satellite observation” by Jian Wu et al.***

### **Anonymous Referee #1**

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This manuscript discussed the open biomass burning emissions in Central and Eastern China including several provinces with different vegetation and also the emissions in different years and seasons. research. The authors also estimated the pollutions from open biomass burning in this area from 2003 to 2015. The spatial and temporal distribution of open biomass burning provides a high resolution result to relevant researchers and could be meaningful in policy making. And there are some technical questions that need the authors to clarify (see additional comments).

Additional comments: 1. Line 27: The initialism needs to be explained for the first use, i.e. OC, EC and NMVOC.

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2. Line 100-101: “”. Please review the structure of this sentence.
3. Section 2.3: Although the author set different CE values for different vegetation, the CE was set as a constant during each open burning process. Please discuss about it and provide a reasonable explanation, because the CE should not be a constant during burning and the pollution emissions were not uniform in different phase.
4. Line 219-221: The contribution presented in this part were with different significant figures or decimal digits. Please explain why you use different significant figures or decimal digits for different contributors?
5. Line 257: Please explain the increasing trend of OBB emission from 2003 to 2008. It seems that the explanation in Line 269-280 was not convincing enough.
6. Line 452-460: Please specify how much do your research improve the uncertainties in OBB emission and contribution estimation.

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