

Interactive comment on “Contrasting responses of terrestrial ecosystem production to hot temperature extreme regimes between grassland and forest” by Y. Zhang et al.

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The manuscript appears to be a reasonable approach to evaluating the effect of heat waves on net primary production as estimated from satellite remote sensing. It will be of interest to the BG readership, but requires major revisions before it is suitable for final publication.

Unfortunately, there are numerous grammatical errors that should be corrected to make the text more readable.

All the concerns of the reviewer should be addressed, especially a more careful evaluation and explanation of the differences between the spatial and temporal trends, prior

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to resubmission. The generalizations of the specific results from this study should be applied to other ecosystems more cautiously.

Additionally, please provide more details on the data that were used in Equation 1. How many data points were used (sites and years)? (Please provide the number that was used for the statistics). How would Eq 1 change if site or year was held constant? The reviewer also asked for clarification about the accuracy of Eq. 1 when applied to spatial or temporal correlation. This analysis would help inform the discussion of temporal versus spatial patterns observed in the data. Also, on Line 107, what is meant by a “pixel-based quality assurance (QA) control”? Please provide a citation.

Interactive comment on Biogeosciences Discuss., 11, 5997, 2014.