

## ***Interactive comment on “Effects of climate variability on Savannah fire regimes in West Africa” by E. T. N’Datchoh et al.***

**E. T. N’Datchoh et al.**

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Answer to comment on the manuscript entitled “Effects of climate variability on Savannah fire regimes in West Africa” by E. T. N’Datchoh et al. Referee 2

Thank you for your interest, your contribution and your pertinent observations that help us to improve our work. Efforts have been done on the language skills in the revised version and native English speaker contribution is going for better improvement of the final version. 1. Outcome of the subdivision into 4 zones The subdivision into 4 zones aims to highlight the most burned regions for a better understanding and study of their internal variability. 2. Discussion section being rewritten consistently with paper objectives This section has been rewritten on the basis of your comments and that of others referees as well. 3. Tables 1 and 2 look the same The tables 1 and 2 are not

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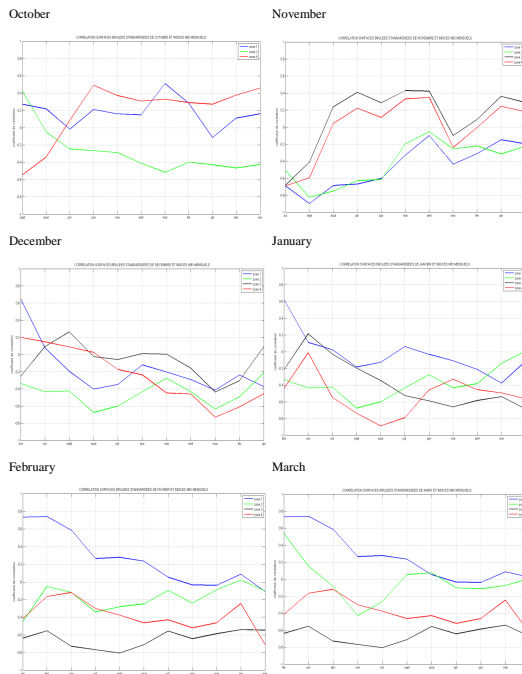
the same. While the first gives fire return time and the percentage (table 1), the second presents the months with significant correlation coefficients between dry season monthly anomalies and the indexes (table 2). 4. Group figures 4, 6 and 7 These figures contribute to the comprehension and the clarity of fire regions subdivision. Nevertheless figures 6 and 7 will be grouped in the final version. 5. Figure 5a, 5b not bringing more information These figures are indeed to highlight the spatially decreasing of burned areas with frequency. 6. West Africa and ENSO and associated literature This point has been taken into consideration and added in the revised version. 7. ITCZ discussion A short paragraph has been inserted in the final version. 8. Discussion on burned area data evaluation We have mistaken in not discussing the limits of the data. This is now added with appropriate references. 9. Linear correlation remove We agree with you suggestion. This section has then been removed from the new manuscript version. 10. No discussion about SOI and MEI redundancy We opted to talk about SOI and MEI because of the lack of consensus in the scientific community on the debate concerning ENSO impact on West Africa rainfall system. Two indexes will be provided to sustain our result. 11. Fire frequency It was a mistake inside due to the translation. The right sentence is the following and has been corrected in the revised version. 12. Study of main fire source Paragraph merged was a mistake during manuscript formatting. 13. Precipitation data Section about the precipitation data used for the study is now added in the manuscript revised version. 14. Phase opposition rainfall burned areas Figure presenting burned area time series anomalies and rainfall anomalies is now added in the manuscript revised version. 15. Graphics of correlation indexes These are the correlation coefficients graphics; they will be added in the manuscript revised version.

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Correlation coefficients between dry season monthly burned areas anomalies and MEI index.

Fig. 1.

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