

Interactive comment on “Assessment of Forest Fire Rating Systems in Typical Mediterranean Forest, Crete, Greece” by Mohamed Elhag and Slivena Boteva

Anonymous Referee #1

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Dear Editors,

I am sending my review of the manuscript entitled Forest Fire Danger Rating Systems Assessment in the Mediterranean Type Environment, Crete, Greece. The manuscript concerns the problem with fires which is a very important problem due to their negative impact on nature and of course in humans leading to significant environmental and economic losses. The Introduction part describes in detail the concerned topic. The essence and use of CFFDRS and KBDI are described chronologically from their introduction until recent days. In Materials and Method part the authors give particular information about the applied indices supported with formulas and data that are

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needed for the respective analyses. The part Results and discussion gives in detail the results obtained from the CFFDRS by using the respective codes and indices. The KBDI trends were evaluated with time and also it was tried to be used as a predictor for fires by identifying a relationship of KBDI and moisture content in plants typical for the investigated area - Mediterranean region. In the Conclusion part, the paragraph "This may be due to several reasons. The KBDI supports to predict with high accuracy the moisture content of three annual plants (*Piplatherum miliaceum*, *Parietaria diffusa*, *Avena sterilis*) with shallow rooting system representing the understory of *Pinus halepensis* in Chania region. Separate models are developed for determining their moisture content. "will be more suitable for the Discussion part. The manuscript is written in good English and is suitable for the Journal as it meets all the requirements. The research work has not only scientific but also applicable contribution given the problem concerned in it. Consequently, I sincerely encourage the authors to omit the redundant text in general and reduce the number of the equations included. The article is comprehensive and does it need a fill-up text. Based on the above said, I highly recommend this article to be published.

Yours sincerely,

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