

## ***Interactive comment on “Attribution of the role of climate change in the forest fires in Sweden 2018” by Folmer Krikken et al.***

### **Anonymous Referee #2**

Received and published: 14 December 2019

This paper deals with the analysis of model outputs and reanalyses using the FWI as an estimator of fire risk in Sweden.

The approach uses the standard technologies available today – climate scenarios, bias correction and of the like – to perform attribution studies and estimates of fire risk in coming decades.

Overall, however, the main result is that “In a future climate (a 20 C warmer climate relative to pre-industrial) the risk for such events to occur may increase more robustly by a factor of  $\sim 2$  (1.5 to 3) relative to pre-industrial climate”, which is a result rather similar to many others currently available. In addition, the authors conclude that “The increased fire risk is mostly driven by increased temperature”, something could have been expected also without refined analyses.

In conclusion, I am not convinced this paper is a significant addition to our understanding of fire risk assessment in future climates. If the authors intend to re-submit a new paper, I urge them to develop a critical analysis of the role of the various components (e.g., bias correction) and use different fire indicators.

I think this paper is not acceptable in its current form and I suggest major revision along the lines indicated above.

---

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2019-206>, 2019.

[Printer-friendly version](#)

[Discussion paper](#)

