Comment on nhess-2022-72

Anonymous Referee #3

Referee comment on "Model Comparisons for Predicting Grassland Fire Occurrence Probability in Inner Mongolia Autonomous Region, China" by Chang Chang et al., Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2022-72-RC3, 2022

Review

Model Comparisons for Predicting Grassland Fire Occurrence Probability in Inner Mongolia Autonomous Region, China

The author team provided an interesting manuscript and analysis on grassland fires in Inner Mongolia and developed an approach to compare three statistical model for predicting the probability of grassland fire occurrence. They used historical datasets of grassland fires and additional 16 different variables related to grassland fires for their model.

Considering the research transparency of the study I recommend major revision of the introduction and the methods section. Some of the information I missed in the introduction and method section were addressed in the results, however, I assume that the authors are aware of the information but did not made it explicit for the reader in the manuscript. I provided detailed comments and questions in the attached pdf and I am convinced that these remarks make it clearer. The current description of some parts of the methods did not allow an assessment.

Furthermore, I missed in the discussion a critical view on the chosen methods, data and resolutions, as well as their possible influence on the gained results. Such a reflection would allow also readers from other areas to learn from your study. Thus, I highly recommend to stress clearly in the manuscript what is the new and innovative part of your study.

Additional minor comments:

English editing – check abstract and a few indicated sentences in the manuscript.

Please also note the supplement to this comment:
https://nhess.copernicus.org/preprints/nhess-2022-72/nhess-2022-72-RC3-supplement.pdf