

RC2

Review of "Tracking recent extremes and interannual variability of global fire emissions using a near-real-time extension to the Global Fire Emissions Database"

As global climate, landcover, and human population continue to change it is imperative to monitor global fire activity and associated emissions. Remote sensing from satellites is the best way to do this but continuous monitoring will be perpetually challenged by the relatively short lifetimes of satellites and changes in the quality of the data they provide. This new GFED5NRT product is timely in that it allows for extension of the MODIS-based GFED5, which ended after 2022 due to orbital drift of Terra and Aqua. The authors have done much work to ensure good continuity between the GFED5 and the new VIIRS-based extension. Further, the automated real-time element will allow for unprecedented ability to place new events of interest in a longer-term context, and it's great that the automated process also loops back and improves on the prior real-time data when improved retrospective data become available. The paper is written clearly and the figures/analyses provided do a nice job of demonstrating the quality and value of the dataset. The conclusions section transparently discusses limitations and places this real-time product in the context of exciting future next steps. I suggest publication with no necessary revisions.

We thank the reviewer for the very positive and encouraging assessment of our manuscript. In response to the other reviewer's comments, we have further strengthened the manuscript by expanding the discussion of uncertainties, adding evaluations of spatial performance and extreme fire events, and clarifying dataset limitations and appropriate use cases. We thank the reviewer for their support of publication.