

Dear Prof. Dr. Christoph Knote,

15/03/2023

Thank you for giving us another opportunity to submit a revised version of our manuscript titled *Plume detection and estimate emissions for biomass burning plumes from TROPOMI Carbon monoxide observations using APE v1.1* to EGU. We appreciate the time and effort that you have dedicated to providing your valuable feedback on our manuscript. We are submitting the revised manuscript with few major revisions based on the comments and suggestions from referees. Sections 2, 3 and 4 have been re-written and we have added Appendix B to the manuscript.

Along with these major revisions, we have

1. Changed changed the software version to APE 1.1. Changes in software are
  1. We have shortened plume length parameter filter from 40km to 25km to facilitate the identification of more plumes.
  2. We have done some bug fixes and re-wrote some parts of the code. These do not influence the results.
2. We have submitted the reply to each referee. However, I do now know if the reply to referees needs to be attached to this document.

We look forward to hearing from you in due time regarding our submission and to respond to any further questions and comments you may have.

Sincerely,  
Manu Goudar  
SRON Netherlands Institute for Space Research, Leiden,  
The Netherlands