

Once again, we are grateful to the anonymous referee for their time and effort in reviewing our ESSD data description paper. We greatly appreciate the constructive comment and suggested revisions, which have helped us improve the manuscript. The referee's comment and our response are provided below.

Referee

I would suggest it for publications after improving the resolution for figure 10, and clarify 'short-term' in line 348 (the atc file) and the uncertainty effect by AR(x) models in line 435.

Response: Thanks. In the revised manuscript, we have improved the resolution of Figure 10.

We agree that the term “short-term” was unclear in the original manuscript. We have clarified that the monthly extrema mainly reflect localized spatial variability and month-to-month fluctuations rather than persistent systematic differences between the two products. The corresponding revision has been made in Line 348 of the revised manuscript.

We have clarified that AR(x)-based uncertainties represent parameter-estimation uncertainties under the adopted statistical assumptions and are generally larger than those obtained without considering temporal autocorrelation, because the effective degrees of freedom are reduced. The corresponding revision has been made in Lines 405–414 of the revised manuscript.