

P4, L129: reanalyses -> reanalyses

P5, L131: is -> are

P5, L131: Add "Sect. 4" in parentheses.

P5, L139: In your reply to my comments you stated that the term multispectral satellite approach was used in several previous publications. However, when I searched this term with google, I rather found that the term "multispectral synergism of IAS and GOME2" is used. Wouldn't it then be better to write "multispectral synergism of IAS and GOME2" instead of "multispectral satellite approach"?

P5, L142: The sentence is misleading and should be rephrased. The time given has nothing to do with the global coverage, I guess this is the equator crossing time of the satellite and it should also be written like that.

P5, L145: "on" a vertical grid

P5, L147: It should read either "is provided by the French data centre" or "can be retrieved from the French data centre".

P5, L150: Which layer? It is not clear what is meant. Do you mean the "horizontal" layer?

P5, L158: "from" instead of "an".

P5, L160: Also here "layer" not clear.

Data and Method introduction: Mentioning of Atom (sect.2.3), meteorological data (Sect. 2.4) and other data (Sect 2.5) missing.

P10, L268: Change "It" to "The ITCZ".

P10, L281: Introduce SD here once again since you introduced it long before on P2.

P10, L283: minima "are" seen

P13, L318: Instead of "in period shown in Figure. !" write the year, thus it should read "in 2017".

P13, L324: is -> are

P13, L330: Add "the" so that it reads "the three reanalyses products".

P14, Fig. 3 caption: Add "the" and "altitude" so that it reads "from the surface to 3 km altitude" and in the last sentence it should read "that are shown in Fig. 1" and move the coordinates behind "rectangle".

P15, L344: Add "the" so that it reads "the ozone distribution".

P15, L349: With what? Which data sets are compared? Please be more clear.

P15, L350: Sentence not clear. Please check and revise.

P15, L354: Add "the" so that it reads "the two".

P15, L356: Change "which" to "where" so that it reads "where IASI+GOME2 concentrations are low".

Figure 4 caption: See my comments on Figure 3 caption. Same changes should be made here.

P17, L373: Change to "covers the regions from....."

P17, L377: Figs. -> Figures

P17, L377: Add “the” so that it reads “show the horizontal distribution”

P17, L381: Add “the” so that it reads “the St. Helena anticyclone”.

P18, Fig 5 caption: See my suggestion for corrections on Figs 3 and 4 captions.

P19, L402: Add “the” so that it reads “the two reanalyses”.

P25, L469: Delete “the” before transport.

Fig 11 and 12 caption: I guess the dots are showing the vertical profiles of Atom. Thus, I would suggest to rephrase the last two sentences as follows: “Dots show vertical profiles of CO concentrations from ATom-2 and ATom-3 observations for the periods from 13 to 15 February and from 17 to 20 October 2017”.

P27, L500: Fig. 1a? I guess this is wrong since Fig 1 has no panels.

P27, L509: Add “the” so that it reads “the two reanalyses”.

P27, L514: Add “the” so that it reads “the St. Helena anticyclone”.

P27, L516: Add “the” so that it reads “the two reanalyses”.

P28, L520: Write here “the satellite and the two reanalyses”

P28, L540: Fig 1c?

P28, L550: Fig 1a? Please check figure reference, This should be done throughout the entire sections since you referring here to many figures and it is very important that the referencing is done here correct.

P29, L576: low -> lower, so that it reads “lower-to-upper”

P30, L595: Delete “in the” so that it reads “seen north of”

P30, L600: low -> lower, so that it reads “lower-to-upper”

P31, L612: Which study? The reference of Burgeois at the end of the sentence? The sentence should read “A previous study” or write “The previous study by Burgeois.....”

P31, L619: Sentence needs to be revised. What do you mean with evaluating here? Do you mean that you are evaluating the re-analyses by these comparisons? Correcting the sentence with deepL write I got the following suggestion: “Our results suggest that, in the context of intercomparison studies of tropospheric ozone over the Atlantic, the seasonal variability of biomass burning in Africa must be considered when evaluating model source uncertainties.”

P32, L631: “and” instead of a comma? “Gulf of Guinea (over the Ocean) and Central and Southern Africa”?

P32, L652: Add “the” so that it reads “the two reanalyses”

P32, L661: See my comment on P31, L612: It should read either “A study “ or “The study by Bourgeois et al.”

P32, L662-665: I would suggest to split the last sentence into two sentences and rephrase as follows: “Our findings suggest that intercomparison studies

over the Atlantic should be carried out using seasons based on the location of active biomass burning areas as well as the influence of anthropogenic precursors over the Northern Atlantic. Such studies will improve the accuracy of chemistry-transport models in this region.”