

Editor comments on Manuscript No egusphere-2023-3574

No severe ozone depletion in the tropical stratosphere in recent decades by Kuttipurath et al.

P1, L15: "in the tropics" should be moved before "during the past five decades".

P2, L29: downwards -> propagate downwards

P2, L31: earth -> Earth (?) . Later you indeed start with a capital letter. However, if "Earth" or "earth" is the correct version should be checked with the ACP guidelines and then corrected accordingly.

P2, L27: Mccromick -> McCormick

P3, L71: I would write here "polar stratospheric clouds" (even if they are in the tropics not polar, but then the reader at least knows what type of clouds are needed). Alternative you could also write what kind/type of PSCs are required.

P3, L71: Which CFC-12 observations. Please clearly state which CFC-12 observations you refer to (which instrument/model).

P3, L79ff: I would add a "the" before each long version of the instrument names (even if this is often skipped when only the abbreviation is used).

P3, L80: I would suggest to add "its successor" before SAGE II

P3, L81: add "respectively, " after Aura.

P4, L86: Add "the" before "Stratospheric Water and.....".

P4, L86: Mention that this is also a merged data set.

P4, L97: "(/2)" correct? Or is there a typo?

P4, L101: Merged -> merged

P4, L102ff: Also here, I would suggest to add "the" before the long names of the instruments.

P4, L113: location of SHADOZ -> location of the SHADOZ

P5, L117: radiosonde -> radiosondes

P5, L128: regions -> region

P5, L129: Hyplit -> HYSPLIT

P5, L130: of TOST -> of the TOST

P5, L134: Add "The" before "Tropospheric Ozone....."

P5, L134: in earth's -> in the earth's (Earths's?)

P5, L136: "and the detection of ozone depletion events" -> detects ozone depletion events (?)

P5, L137: Add "the" -> the GODFIT

P5, L139: Add "The" -> The Ozone Mapping.....

P5, L139: Add "the" -> on-board the Suomi.....

P5, L140: delete "in"

P6, L144: Add "The" -> The Ozone Monitoring.....

P6, L145: Add "the" -> scattered by the

P6, L149: Add "the" -> of the global

P6, L160: add "The" -> The Ozone Mapping

P6, L163: hereby -> here and what do you mean with explanatory variables? Rephrase?

P7, L173: add "merged" -> the merged satellite data

P7, Figure 1: O3 in the legend cut.

P8, Figure 1 caption: add "the" twice and add "s" to show ->..... by the Ozone Mapping shows the region of the ozone hole.....

P9, Figure 2 caption: Since you already have introduced the instrument names in the text, this is obsolete to be repeated in the figure captions.

P9, L221: data set or dataset? Please check the manuscript, I had the following that you used both versions of writing it.

P9, L229: MAM not introduced. I would suggest to write March, April and May (MAM).

P10, L234: better to write "the trends" instead of "that"?

P10, L235: the trends ...is -> either the trends.....are or the trendis

P10, L236: Same here, mixture of singular and plural.

P10, L237: check sentence. Rather "and these in the lower and middle stratosphere are nonsignificant....

P10, L239: Aura MLS? Rather UARS MLS since Aura MLS was launched at around 2004 and not before.

P11, L255: I would suggest to write 1960s, 1970s and 1980s instead of 1960, 1970 and 1980.

P11, L262: low ozone air -> better to write "air with low ozone"?

P13, L277: ppm/yr -> ppm/yr-1 (see ACP guidelines)

P13, Figure 5 caption: In many cases capital letters are used where small letters should be used, e.g. Bottom Right/Left Panel -> bottom left/right panel

P14, L289: I think for ACP it should rather be written with small letters -> southern hemispheric.

P14, L292: Sonde -> sonde

P14, L293: bias -> biases

P15, Figure 6: Since the abbreviation of the instruments have been introduced in the text, this does not need to be repeated in the figure caption.

P16, L318: "mechanism" twice -> one obsolete

P16, L319: add "ice" -> for ice particles

P16, l322: is -> are

P16, L324: Tropics -> tropics

P17, L338: of BDC -> of the BDC

P17, L356: This is a bit of a repetition here and I would suggest to move this remainder of this paragraph to the conclusion section.

P17, L358: reanalysed -> reanalyses

P17, L366: of BDC -> of the BDC

P18, L382: skip "the" and replace "is" by "are".