

Editor comments ACP-2023-113

Senf et al., How the extreme 2019-2020 Australian wildfires affected global circulation and adjustments

Title: What do you mean with adjustments? I would suggest to rephrase the title.

P1, L18: ".....downward coupling mechanism in the model". Please rephrase. This sentence is misleading and sounds like that the model is affecting the atmosphere.

P1, L22: I am not sure if cycling is here the correct wording. Do you mean "exchange"?

P3, L61: To just write "adjustment" is not enough. You should write "according" adjustment and in general make clear that you mean with adjustment the adaption of the atmosphere to the new conditions.

P3, L87: Same here. Do you mean adjustments to the mode? Adjustments to the atmosphere?

P4, L94: add "as" -> as already detailed

P4, L09: input -> taken

P4, L114: What do you exactly mean with "optics" ? Optical properties? Please rephrase.

P5, L133: replace comma by semicolon? Better to rewrite the sentence so that it is better readable.

P5, L148: add "the" -> the so-called

P5, L149: "were input as external data" -> please rephrase. Better to just write "were used"?

P7, L189: as reviewed by -> better to write "as found" or "as discussed in the review by ..."

P8, L224: computed -> simulated

P8, L225: I would suggest to be more clear and to write instead of "during the 3 months" "during the 3 month period considered".

P9, L251: nudged -> nudged model

P9, L282: I would suggest to write "In total". I think "In the net" is not correct English. It would be rather "In net".

P10, L269: singular or plural? Thus, either has "a" maximum amplitude or has maximum amplitudes.

P11, Figure 3 caption: add "forcing"

P12, L294: It is still not clear what is meant with "adjustment". Further, I would suggest to rephrase the sentence or move "there" behind "show".

P12, L295: At first glance -> At "a" first glance

P15, Figure 6 caption: Move "starts at 300 hPa" at the end of the sentence or write " pressure range between 300 and 10 hPa".

P18, L380: "Adjustment" to what?

P19, Figure 10 caption: plotted -> shown

P20,L412: low -> lower

P20, L412: make a listing instead of writing and twice? Thus, add comma after temperature and delete "and".

P20, L414: Downward impact of what? Do you mean with downward the circulation?

P20-21, L420-421: "downwelling of longwave radiation" sounds wrong.

P21, L427: Once again it is not clear what you mean with adjustments.

P22, L442: Impacts on what. Please clarify and rephrase sentence.

P24, L519: add "clouds" -> cirrus clouds

P24, L524: add "the" -> at the top

P24, L525: reported clear sky values -> where these negative? Please write clearly if negative or positive.

References: No consistent style used. Check ACP style and correct reference list accordingly.