

Editor's review for acp-2022-214

Examples of phrases with unclear text and missing articles/prepositions:

Abstract

Line 18: Replace "of aerosols" by "by aerosols"

Line 20: Replace "extending elevation" by "ranging in elevation"

Lines 21-22: The phrase "The light absorption of brown carbon (BrC) accounting for that of total carbon increases from 20%..." is unclear in English. I suggest you replace it by: "The fraction of light absorption by brown carbon (BrC) to total carbon increases from 20%..."

Lines 23-24: "Contrary to BrC aerosols, winter EC (elemental carbon) mass absorption efficiency declines with altitude" is an unclear sentence. I suggest the following text "In contrast, the mass absorption efficiency elemental carbon (EC) in winter decreases with altitude"

Line 25: Insert: "Emissions from the more..." at the beginning of the sentence, since the sources are not transported, it is the emissions.

Line 26: Replace: "to winter stable air inside.." by "to the stable air in winter inside.."

Line 26: Replace "which also is" by "which is also"

Lines 29-31: The phrase "and thus the enhanced radiative forcing of BrC relative to EC from polluted SCB to pristine TP is because the concentration of

OC decreases more slowly with altitude than does EC." is unclear. I recommend that you rewrite it as a separate sentence as "Thus, the reason of the enhanced relative BrC to EC radiative forcing from polluted SCB to pristine TP is that the BrC concentration decreases more slowly than the EC concentration with altitude"

Lines 31-33: Rewrite this last sentence for clarity, suggestion: "This study contributes to the understanding of the difference in light absorption by EC and BrC with altitude, from polluted lower-altitude basins to the pristine TP, and provides a data set for regional climate model validation."