

Comments on the manuscript (on R2):

Projected global tropospheric ozone impacts on vegetation under different emission and climate scenarios

by

Sicard et al.

Line 02: Make a complete sentence without “i.e”. This is the opening sentence of the article and that must be good, neat, and grammatically correct.

Line 04: and throughout the article. It should be hyphen not minus 0.37

Line 09: precursors of ozone

Line 17: yes, temperature change can enhance, but there is also a threshold for this. We cannot generalize this

Line 96: Please make a complete sentence to introduce the table in the article, not in the bracket. Similarly for Figures too.

Line 98: length “varies”

Line 101—102: we cannot say that it “does not affect”, may be the impact/change/uncertainty will be limited in this case.

Line 110—113: Please split the sentence instead if using i.e. and e.g. (start with, “For example” or similar wordings)

Line 117: for investigating

Line 134: “cannot predict” at all? Or “problems in predicting”? Give a reference too

Line 139: uncertainty here is not related to a latitude model (it’s actually a latitude-dependent model or latitude-based model), but using a single model to all latitudes. Please rephrase it.

Line 141: not study, but scenario

Line 177—179: It sounds that, you wanted show that particular quantity in Figure 1 itself! Please rewrite that.

Line 188: Please introduce the figures properly in the text, not in the bracket.

Line 196: the multi-model

Line 199: You have a supplementary file, can't you show this in that file?

Line 254—255, 298: "able to reproduce" or "well reproduce"

Line 259: (e.g. Beijing in Figure1) and avoid consecutive brackets

Line 262: higher ambient?

Line 294: long-range transport of o3 precursors

Line 328: the highest increase is found in

Line 333: scenarios not "ones"

Line 343, 344, 346: use stronger or weaker than "smaller" or "least warming"

Line 348: Figs

Line 352—356: Hard to comprehend this sentence. "O3 trends over a 24-year period in the NH are due to trends in the relative area"?

Line 355: what is II? Eleven?

Line 358: and CO

Line 375: it rapidly increaseS

Line 377: "prescribed for future rather than concentrations" Please clarify this.

Line 378: "complexity" may not be the right word. Schemes are different, but that doesn't mean that all models have very complex NMVOC simulations

Line 399—400: "as analyzed from six chemical transport models"

Line 410: burden is

Line 411: , respectively,

Line 417: do these models have stratospheric chemistry?

Line 452: 60%

Line 457: not worldwide, but other parts of the world

Line 474: and deserts

Line 481: and CO2 fertilization

Line 490: Ranging from 1 to 1.5%

Line 492: the largest increase

Line 494: one of those regions

Lines 507—512: difficult to follow. Please split the sentence

Line 578: and may be even more under

Line 590, 605: ozone pollution is the threat, not ozone. Also tropospheric ozone!

Line 616—620: please split the sentence too many “and”s here

Line 629: all references need to be reformatted for ACP

Line 1034 and 1039: lower model layer. Please specify that altitude

Line 1047: BC is Black Carbon, OC is Organic Carbon, etc...