

Interactive comment on “Modelling the NO emissions from wildfires at the source level” by Y. Pérez-Ramirez et al.

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In this paper the authors develop a methodology in order to model the NO emissions from wildfires at the source level. The manuscript has already been revised though it is subject to open discussion. In general the text is well structured and the use of English is quite good, except for some minor changes that are suggested below. We believe that no other changes should be performed in the text.

Comments

1. Introduction

Page 3, line 4. ‘Even though the recent improvements...’ – replace with ‘despite the

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recent improvements’. Page 3, line 20. Add a comma after ‘In fact’. Page 4. Lines 5-6. ‘With this purpose, it has been developed a two-step global oxidation scheme to account for the NO emissions in wildland fire conditions’. Please rephrase, for example: ‘a two-step global oxidation scheme has been developed to account for the NO emissions in wildland fire conditions’.

2. Materials and methods

A flowchart could be added before the subsections so to better describe the workflow and methodology steps. Page 7, line 23. Add a comma after ‘In addition’. Page 8, lines 24-26. Replace ‘;’ with comma in the sentence: ‘Even though GDF-Kin[®] 3.0 has not been specifically developed for the gas-phase combustion processes of vegetation;’

4. NO modelling

Page 17, lines 22-23. The phrase ‘...given by Eqs. (1) and (2) being á¼¼ is expressed...’ seems not very clear. Page 18, line 18. Place a comma after ‘As a result’. 6. Conclusions Page 22, lines 11-13. Please add a comma in the phrase ‘... and the sensitivity analyses, a two-step global kinetic model has been proposed for the...’. Page 22, line 14. Add a space in ‘...NH3with...’.

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