

Author's response

1. Introduction

(1) Page 3, line 4. 'Even though the recent improvements...' – replace with 'despite the recent improvements'.

The sentence has been modified as proposed by the referee.

(2) Page 3, line 20. Add a comma after 'In fact'.

A comma has been added after 'In fact'.

(3) 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'.

The sentence has been rephrased as proposed by the referee.

2. Materials and methods

(4) A flowchart could be added before the subsections so to better describe the workflow and methodology steps.

The next flowchart has been added to the manuscript to clarify the methodology steps.

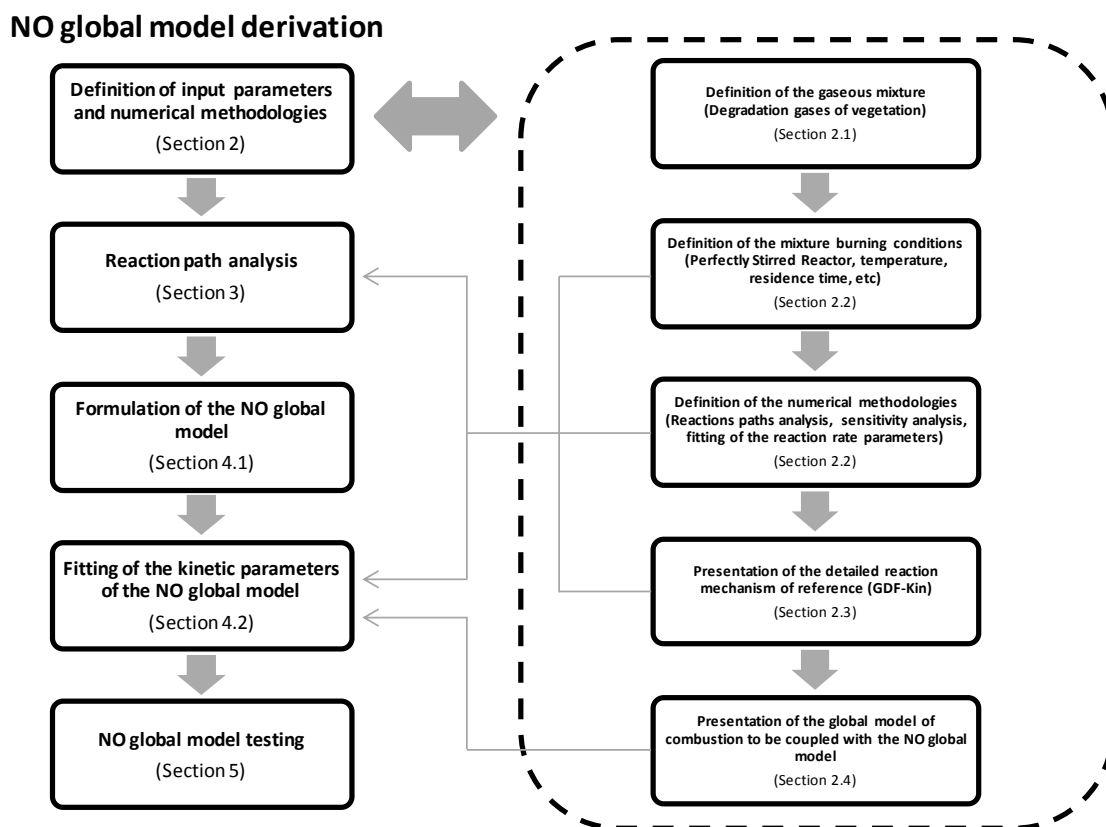


Figure 1. Flowchart of the workflow and the methodology steps.

(5) Page 7, line 23. Add a comma after ‘In addition’.

A comma has been added after ‘In addition’.

(6) 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;’

The punctuation mark ‘;’ has been replaced by a comma.

4. NO modelling

(7) Page 17, lines 22-23. The phrase ‘...given by Eqs. (1) and (2) being $\dot{\omega}$ is expressed in $\text{mol}\cdot\text{cm}^{-3}\cdot\text{s}^{-1}$ ’ seems not very clear.

This sentence has been modified as follows:

“...given by Eqs.(1) and (2) where $\dot{\omega}$ is expressed in $\text{mol}\cdot\text{cm}^{-3}\cdot\text{s}^{-1}$ ”

(8) Page 18, line 18. Place a comma after ‘As a result’.

A comma has been added after ‘As a result’.

6. Conclusions

(9) 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...’.

A comma has been added according to the referee suggestions.

(10) Page 22, line 14. Add a space in ‘NH3with’.

A space has been added between ‘NH3’ and ‘with’.