

Editor Decision #1.1:

Dear Authors,
many thanks for addressing all the issues raised by an independent referee and myself.
The manuscript improved and I'm glad to accept it for publication in ACP.
However, before final acceptance, please address a few additional minor comments listed below.
Thank you.
Best regards,
Marco Gaetani

L13: "Biomass Burning Aerosols (BBA) are a source of uncertainty in climate simulations over the Southeast Atlantic."

L27-28: "Understanding these subseasonal and spatial changes in BBA radiative properties has implications for aerosol modelling and validation of satellite products."

L466: please add references to the "previous studies".

L467: please add references to the "ongoing debate".

L498: please add references to the "previous studies".

Author's Response #1.1:

Thank you for highlighting how we can further refine the abstract and conclusions. We have adopted the suggested language in the abstract and added relevant references to the conclusions.

Manuscript Changes #1.1:

Adopted the suggested language in Line 13:

Biomass Burning Aerosols (BBA) are a source of uncertainty in climate simulations over the Southeast Atlantic.

And in Lines 27-28:

Understanding these subseasonal and spatial changes in BBA radiative properties has implications for aerosol modelling and validation of satellite products.

Added references to Lines 466-467:

(Denjean et al., 2020; Taylor et al., 2020; Wu et al., 2020; Dobracki et al., 2023; Dobracki et al., 2025)

And to Lines 468-469:

(Bond et al., 2013; Eck et al., 2013; Redemann et al., 2021)

And to Lines 499-500:

(Eck et al., 2013; Choi et al., 2024; Tatro and Zuidema, 2025)