

Dear Prof. Bahreini,

Thank you for the assessment of our manuscript for publication in ACP. We have modified and revised the manuscript to address the editorial changes. The line number in our response refers to the track-changed revised version.

On behalf of my co-authors

Agnesh Pant

L95- Change to “However, despite their importance, very few ground-based, in-situ measurement studies to characterize the particle composition and microphysical properties exist.Also, frequent dust storms result in high particulate concentrations and filter overload, which post a challenge for these samples to be analyzed by automated SEM.”

Changed as requested. L93-96

L247: Change to “...related to geology and weather conditions were observed; however, various biases also exist between different techniques (Marsden et al., 2019).”

Changed as requested. L241-242

L293: Table number is missing

We suppose you mean L393. As it was also mentioned in our previous response, inclusion of Table 1 causes latexdiff to not give any marked-up changes. Therefore, in the tracked change version Table 1 was not included. It appears in the revised version. L305

L396-397: either delete “as” or “and therefore”

“as” is deleted. L308

L407: Change to “... and their contribution decreases with particle size..”

Changed as requested. L318

L409: Change to “... iron is detected across all the size classes...”

Changed as requested. L320

L442: Capitalize Middle East

Changed as requested. L341

L682: change “tacked” to “investigated”

Changed as requested. L554