

A few minor comments/suggestions prior to uploading the final version for copy-editing:

pg 5 / line 11 "Photolysis rates were measured by a commercial spectroradiometer for O₃, NO₂, HCHO, HONO and H₂O₂. (Metcon UF CCD), the instrument was calibrated by high power halogen lamp after the field campaign."

Please subscript molecular formulae and insert an "a" between "by" and "high".

These have been subscripted

pg 5 / line 15 "Before the campaign the was instrument calibrated through comparison with a chemical actinometer in 2014 (Zou et al., 2016)."

Spelling: actinometer. The Zou et al. paper does not describe this comparison. Please give an indication what the comparison showed (e.g., the instruments agreed within +/-10%).

I am assuming this instrument integrates light over one hemisphere. How was the upwelling radiation accounted for?

The spelling has now been amended

The following text has been added

"Before the campaign the was instrument calibrated through comparison with a chemical actinometer utilised in 2014 (Zou et al., 2016), agreeing within 10%. The surface albedo is normally 0.05 at the ground near the site. Upwelling radiation is neglected as it represents an insignificant fraction of the downwelling values."

pg 11 / line 11 "Data" are plural, so it should be "these data suggest"

This has been changed

pg 20/ line 35 "nitryl chlorine" should be nitryl chloride

This has been changed