

## ***Interactive comment on “MODIS 3 km aerosol product: applications over land in an urban/suburban region” by L. A. Munchak et al.***

**L. A. Munchak et al.**

leigh.a.munchak@nasa.gov

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Response to Reviewer #1:

We thank the reviewer for his or her helpful comments. We have changed the text accordingly:

P1689 L5: “five minute sections”. Is this “minute” as in time, or “minute” as in “degrees, minutes seconds?”

We have clarified that MODIS granules are 5 minute time length

Section 3.3: The authors never explicitly state that the Lidar is on the plane.

C1307

We have added text to explicitly state that the HSRL instrument flew onboard the B200 airplane.

Throughout: The authors jump between using SP and AERONET. It was never clear to me if when they use AERONET if they mean the permanent AERONET stations, not the temporary SP stations for DISCOVER-AQ, or if they meant all SPs.

We agree. We have replaced AERONET with SP throughout the text. We have kept the term DRAGON only to refer to the network of temporary sun photometers.

P1694 L15: “retrieved exactly”. Exactly?

Fair assessment. We have changed ‘retrieved exactly’ to ‘more accurately retrieved’.

P1695 L22: “suburbam”

Fixed. Thank you.

P1698 L27: “u” instead of a mu in micrometers

Fixed. Thank you.

We also wish to mention that the version of the MODIS algorithm used to create the discussion paper changed in between the publication of the discussion paper, and this response. Accordingly, we have updated all the figures and numbers in the paper to reflect the updates. The code used to generate the granules in this revised version of the paper is the frozen, final Collection 6 code.

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Interactive comment on Atmos. Meas. Tech. Discuss., 6, 1683, 2013.

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