

Accepted Manuscript

Application of satellite observations in conjunction with aerosol reanalysis to characterize long-range transport of African and Asian dust on air quality in the contiguous U.S.

Sheng-Po Chen, Cheng-Hsuan Lu, Jeff McQueen, Pius Lee



PII: S1352-2310(18)30342-X

DOI: [10.1016/j.atmosenv.2018.05.038](https://doi.org/10.1016/j.atmosenv.2018.05.038)

Reference: AEA 16029

To appear in: *Atmospheric Environment*

Received Date: 6 November 2017

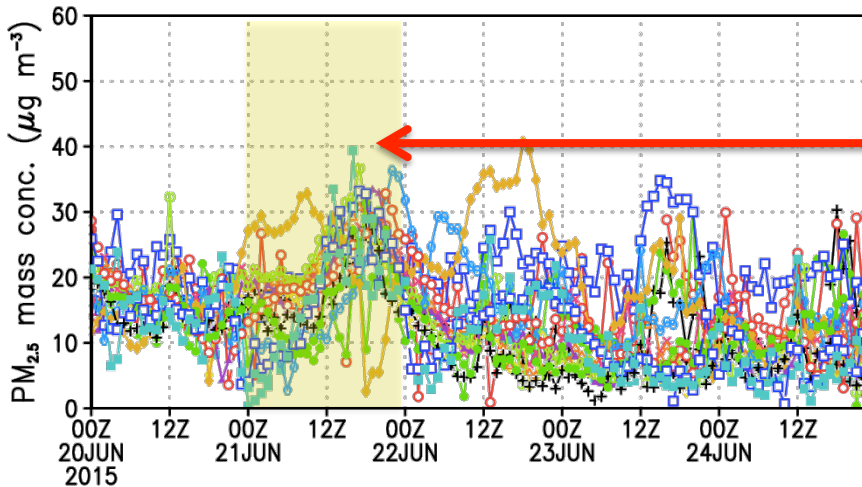
Revised Date: 14 May 2018

Accepted Date: 21 May 2018

Please cite this article as: Chen, S.-P., Lu, C.-H., McQueen, J., Lee, P., Application of satellite observations in conjunction with aerosol reanalysis to characterize long-range transport of African and Asian dust on air quality in the contiguous U.S., *Atmospheric Environment* (2018), doi: 10.1016/j.atmosenv.2018.05.038.

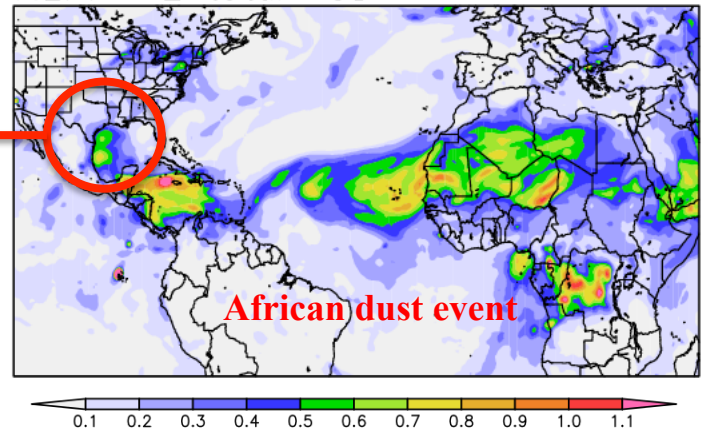
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

EPA Surface PM_{2.5} in Texas (TX) and Louisiana (LA)



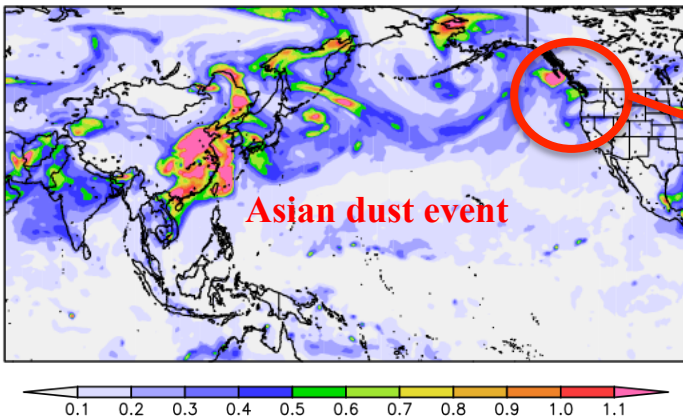
- + 220190008(Westlake, LA)
- 220550007(Lafayette/USGS, LA)
- 220570004(Thibodaux, LA)
- 220870007(Chalmette Vista, LA)
- 481490001(Fayette County, TX)
- × 482010024(Houston Aldine, TX)
- ◇ 482010058(Baytown, TX)
- △ 482011034(Houston East, TX)
- ▲ 482011042(Kingwood, TX)
- 482011050(Seabrook Friendship Park, TX)
- 482030002(Karnack, TX)
- ◇ 482150043(Mission, TX)
- + 482450022(Hamshire, TX)
- 483390078(Conroe Relocated, TX)
- 483611100(Intersection of TX HWYS 62 & 12, TX)
- 484530014(Austin Northwest, TX)
- 484530020(Austin Audubon Society, TX)

MERRA-2 daily mean total AOD on Jun 21, 2015

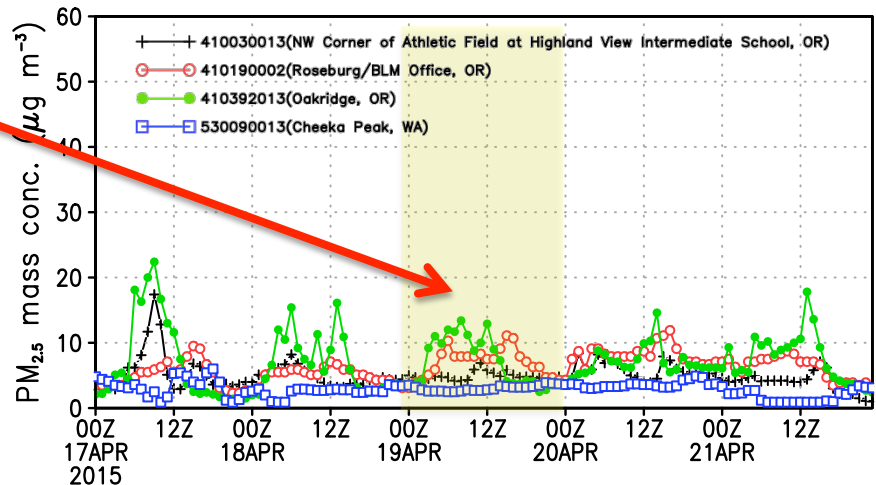


Were all the worse surface air quality of PM_{2.5} affected by long-range transport of dust?

MERRA-2 daily mean total AOD on April 19, 2015



EPA Surface PM_{2.5} in Washington (WA) and Oregon (OR)



- + 410030013(NW Corner of Athletic Field at Highland View Intermediate School, OR)
- 410190002(Roseburg/BLM Office, OR)
- 410392013(Oakridge, OR)
- 530090013(Cheeka Peak, WA)

Download English Version:

<https://daneshyari.com/en/article/8863617>

Download Persian Version:

<https://daneshyari.com/article/8863617>

[Daneshyari.com](https://daneshyari.com)