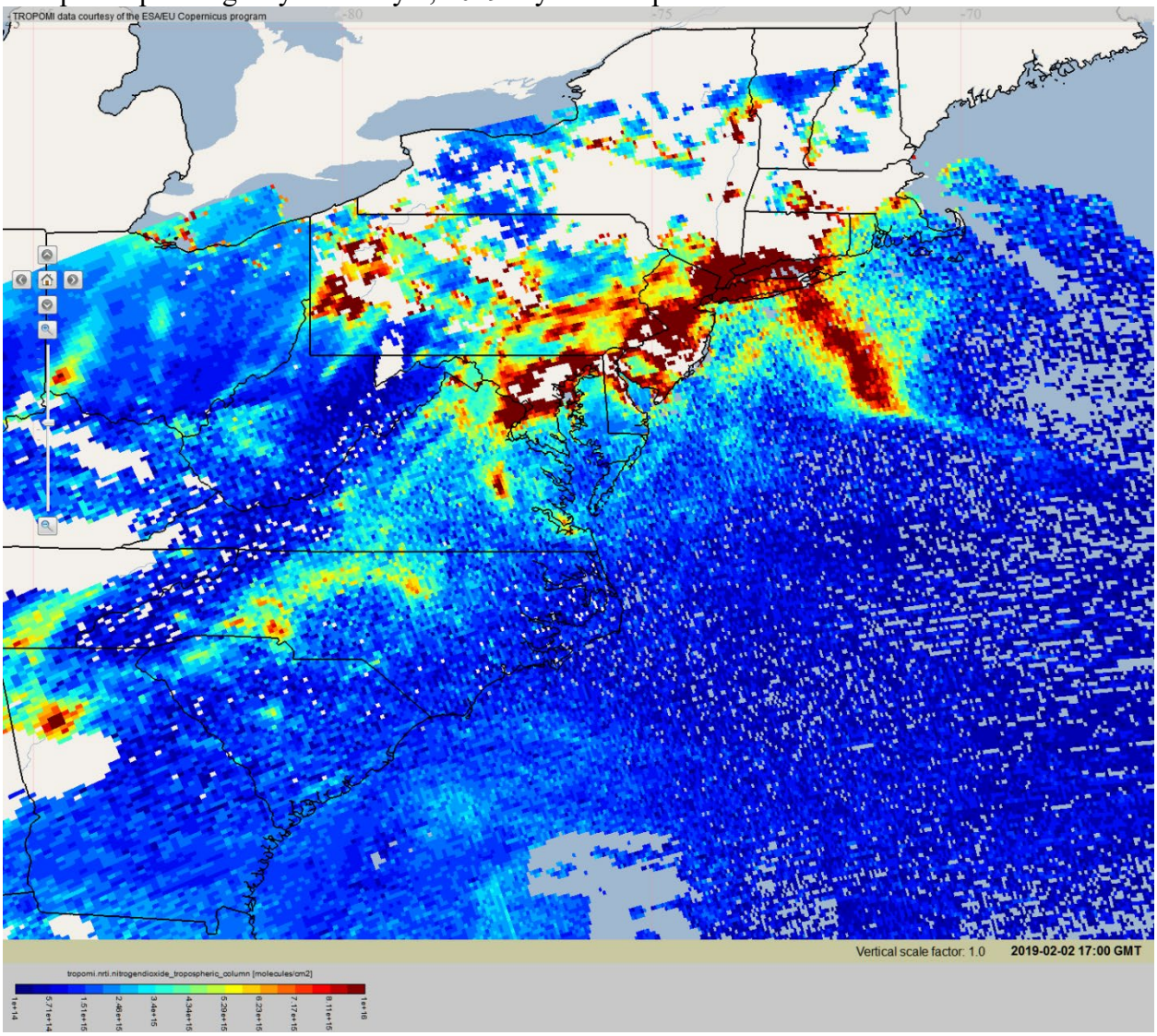
# Attachment 1A

## Satellite Image of Localized $NO_2$ Emissions in the Northeastern United States Based on ESA/EU Tropomi Data

The satellite data in Attachment 1B shows the most significant $NO_2$ emissions occurring in the OTC member states. The satellite data clearly shows high concentrations of $NO_2$ emissions, an ozone precursor, primarily in the metropolitan areas along the I-95 corridor. Based upon the satellite image, reducing local ozone precursor emissions along the I-95 corridor is likely necessary for the surrounding states to attain the current and future ozone NAAQS. Other satellite images and ozone monitored values below also support the need for more localized emission controls.

Please note the wind directions represented by the semi-L shaped lines on the July 16, 2019 maps. They do not correspond to transported emissions, but the max ozone readings along the I-95 corridor were still high.

European Space Agency February 2, 2019 Flyover Tropomi NO2



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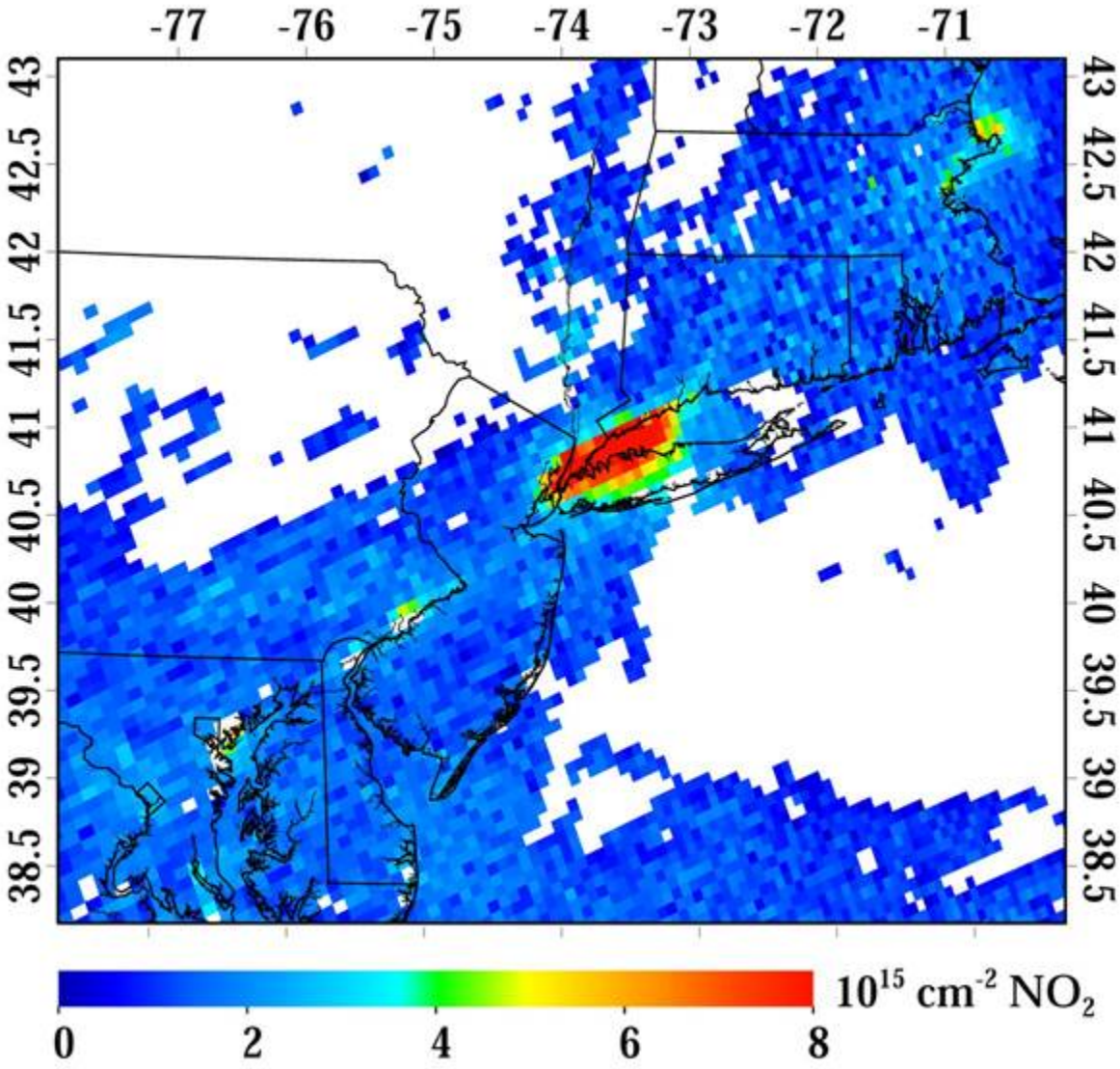
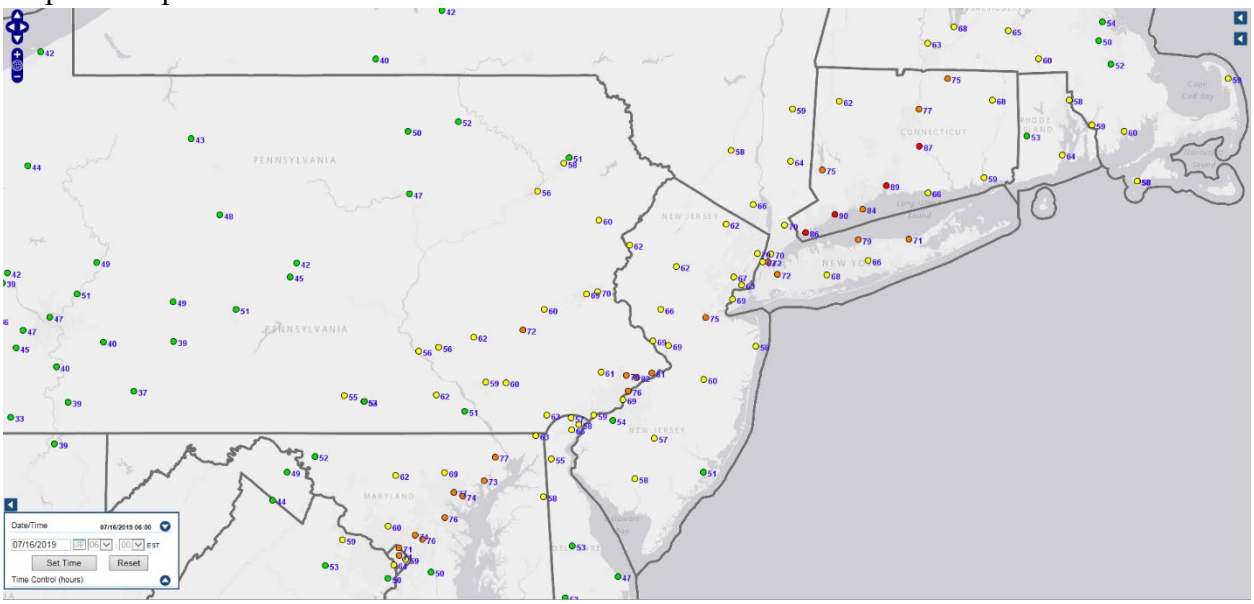
This satellite image is from a flyover on July 19, 2019.
https://twitter.com/DGoldbergAQ/status/1152296103519432709



# Attachment 1A

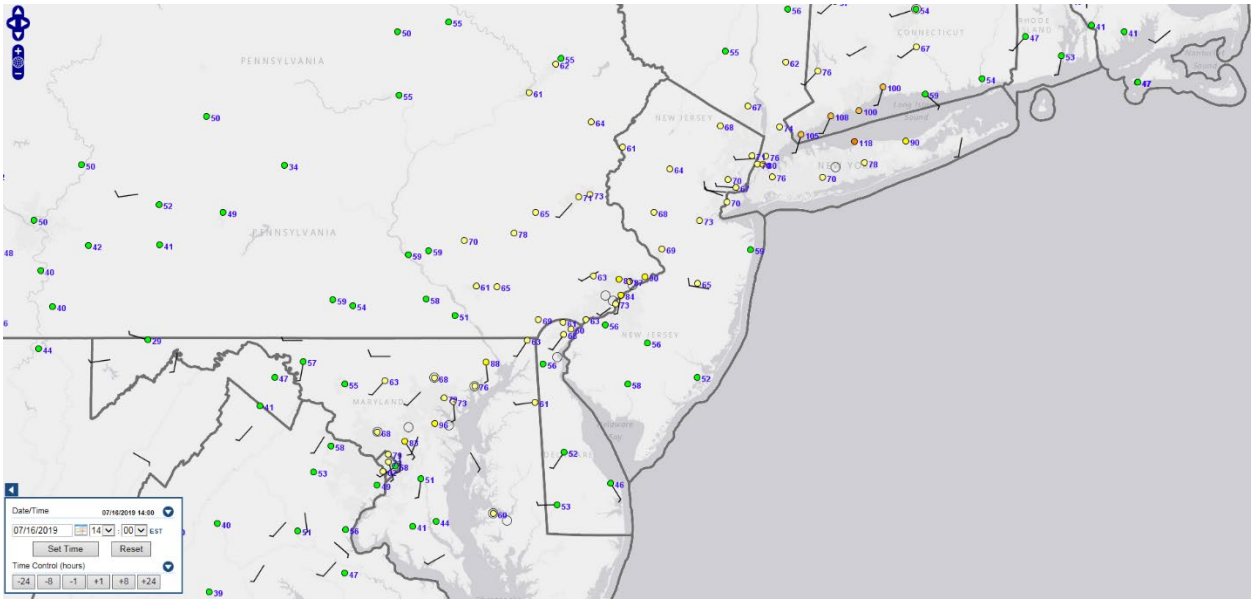
## Ozone data for July 16, 2019

Map for the peak 8-hour ozone concentrations for 7/16/19




### Hourly ozone concentrations from 12pm through 4pm - 7/16/19

Ozone concentrations at 4pm EST on 7/16/2019.



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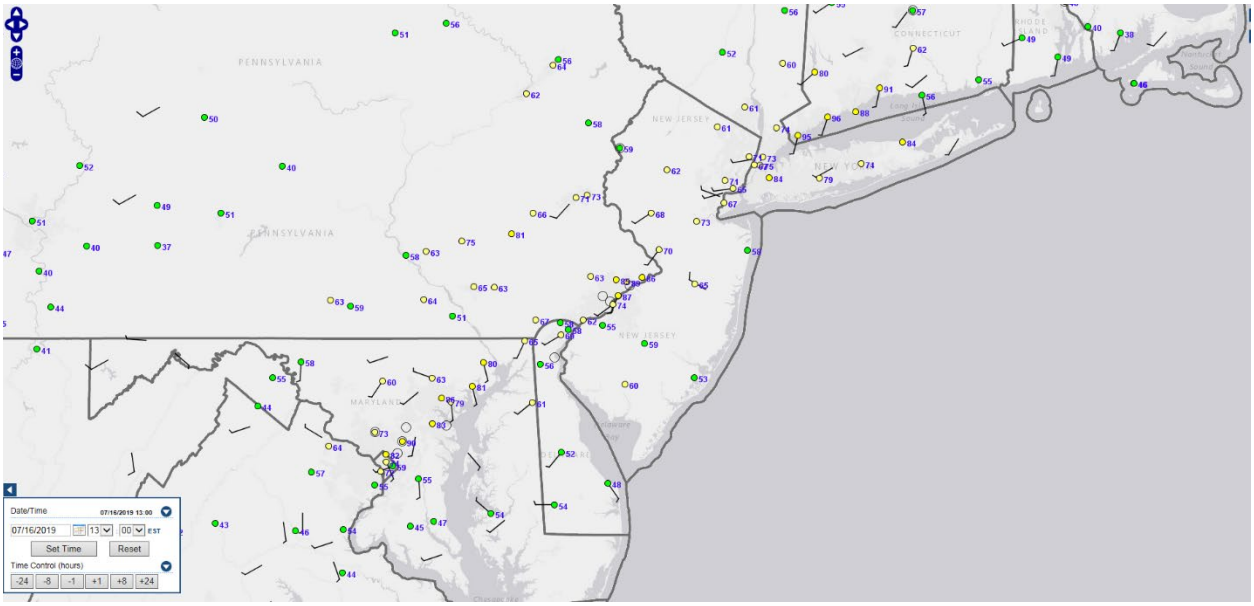
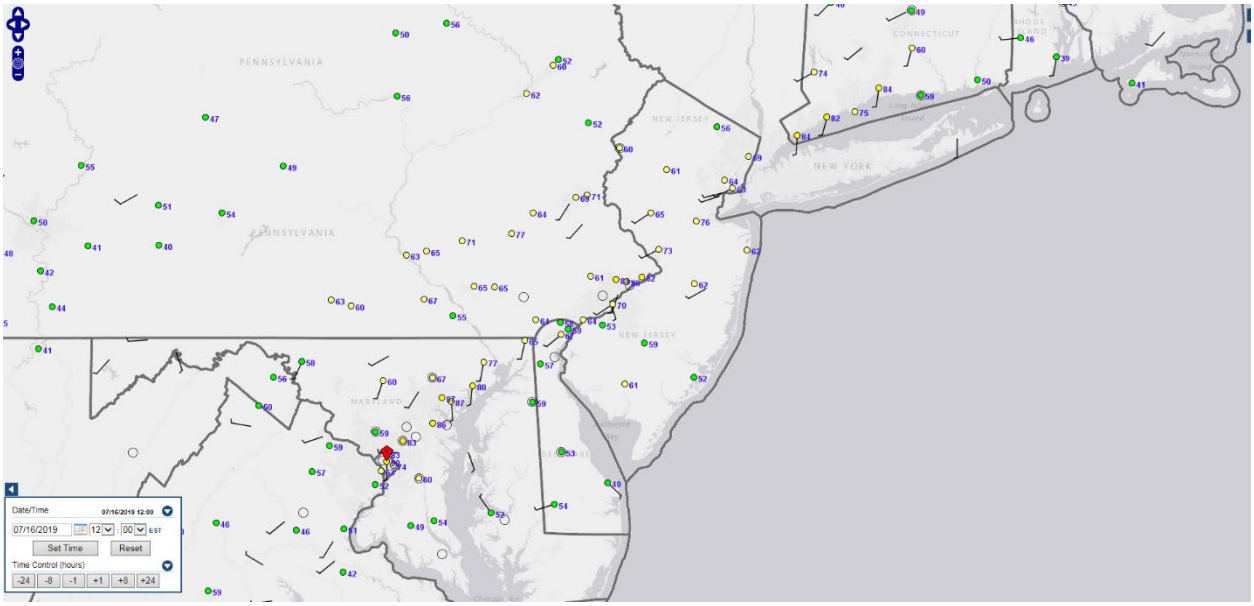
Ozone concentrations at 3pm EST on 7/16/2019.




Ozone concentrations at 2pm EST on 7/16/2019.



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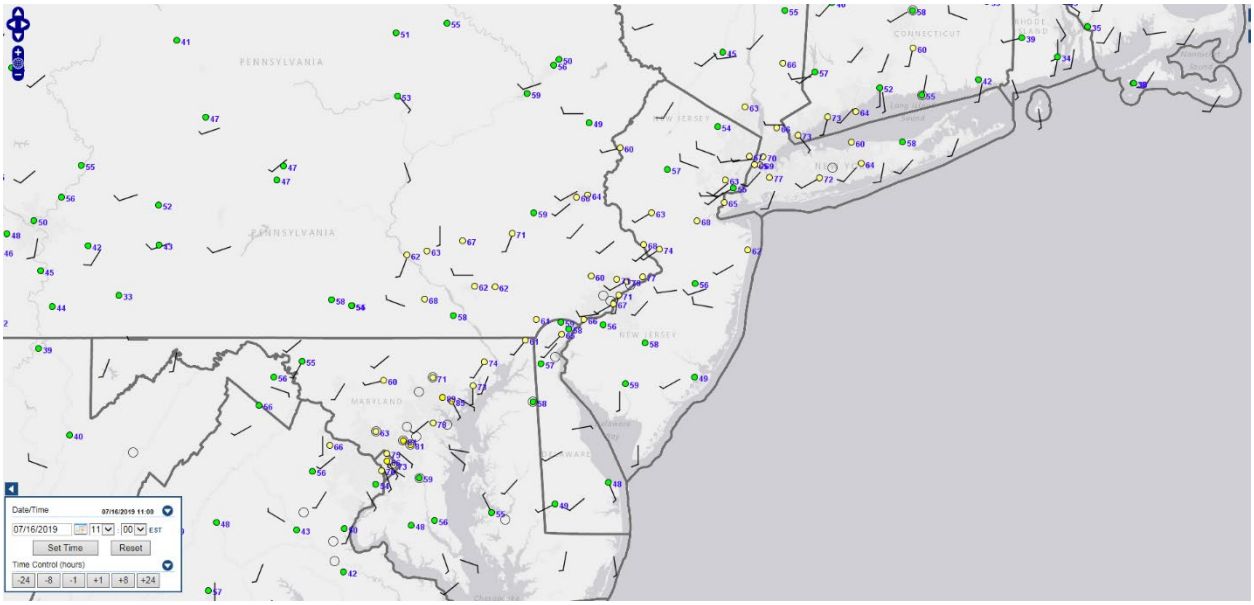
Ozone concentrations at 1pm EST on 7/16/2019.




Ozone concentrations at 12pm EST on 7/16/2019.