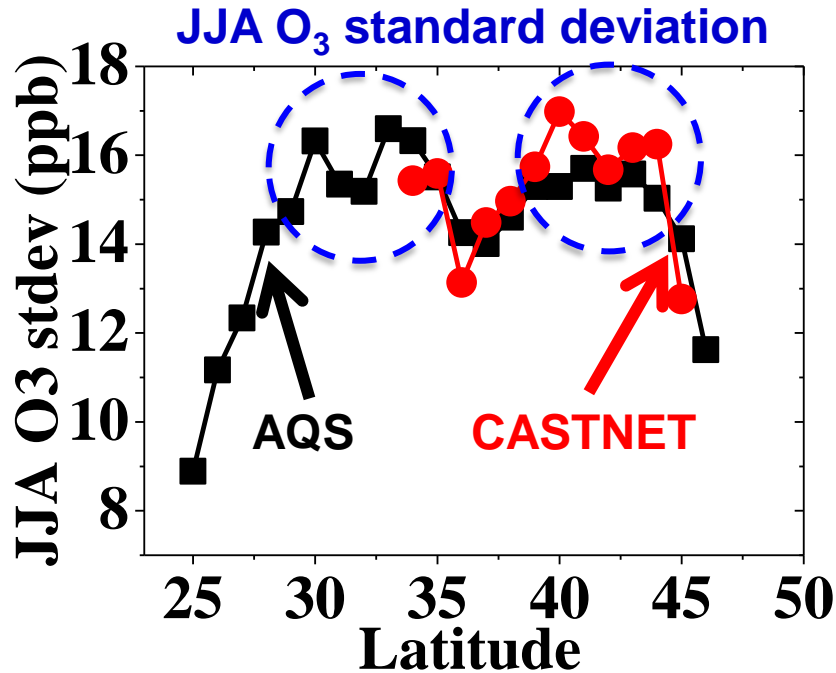
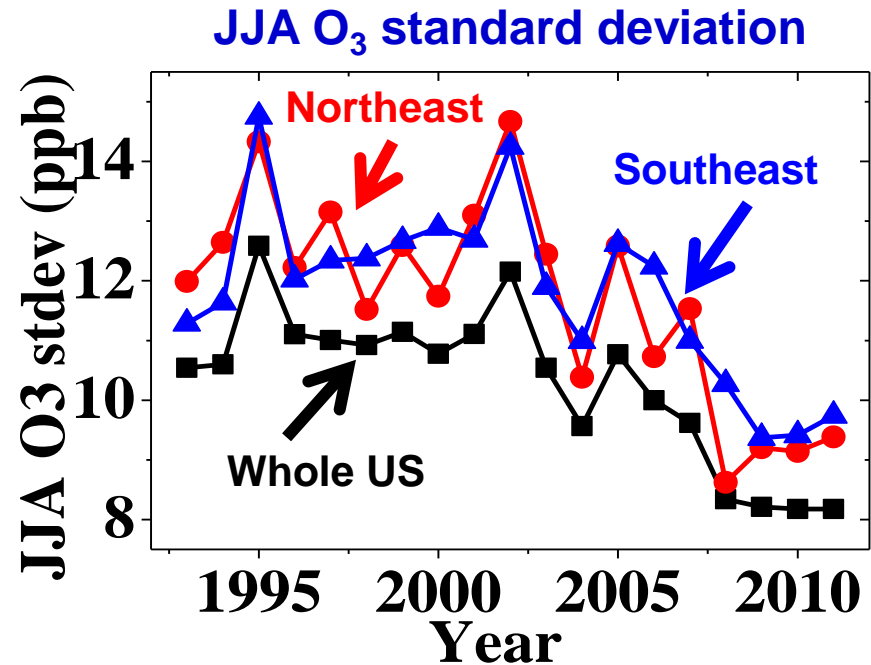


# Meteorological drivers of the variability in surface O<sub>3</sub> over the Eastern United States

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Variation of JJA O<sub>3</sub> standard deviation with latitude in the eastern US for the 1990s



Timeseries of JJA O<sub>3</sub> standard deviation for the eastern US

The standard deviation of surface O<sub>3</sub> correlates with pollution episodes over the Eastern US ( $R$  is  $\sim 0.9$ ), so can be used as a proxy for episodes.

- What drives the spatial trends in ozone variability across the East?
- What caused the rapid 2002-2011 decrease in O<sub>3</sub> variability?