

Assessment of the Long Term Trend (2005-2013) of OMI Aerosol Absorption Optical Depth and the GEOS-Chem Simulations

B. 8

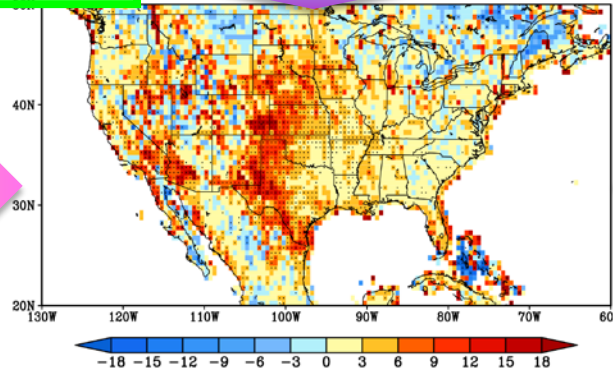
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Global atmospheric burden of BC has increased during the past century

Increasing anthropogenic BC emissions in China and India from 1996 to 2010 associated with rapid economic and industrial development.

BC concentrations have been declining in California following a parallel trend in the reduction of fossil fuel BC emissions since 1989, which may have broad impacts in the U.S..

Increasing
in source region



Decreasing
in local emissions

What is the major factor that dominates the AAOD long-term trend over the U.S.?