

Supplement Figures

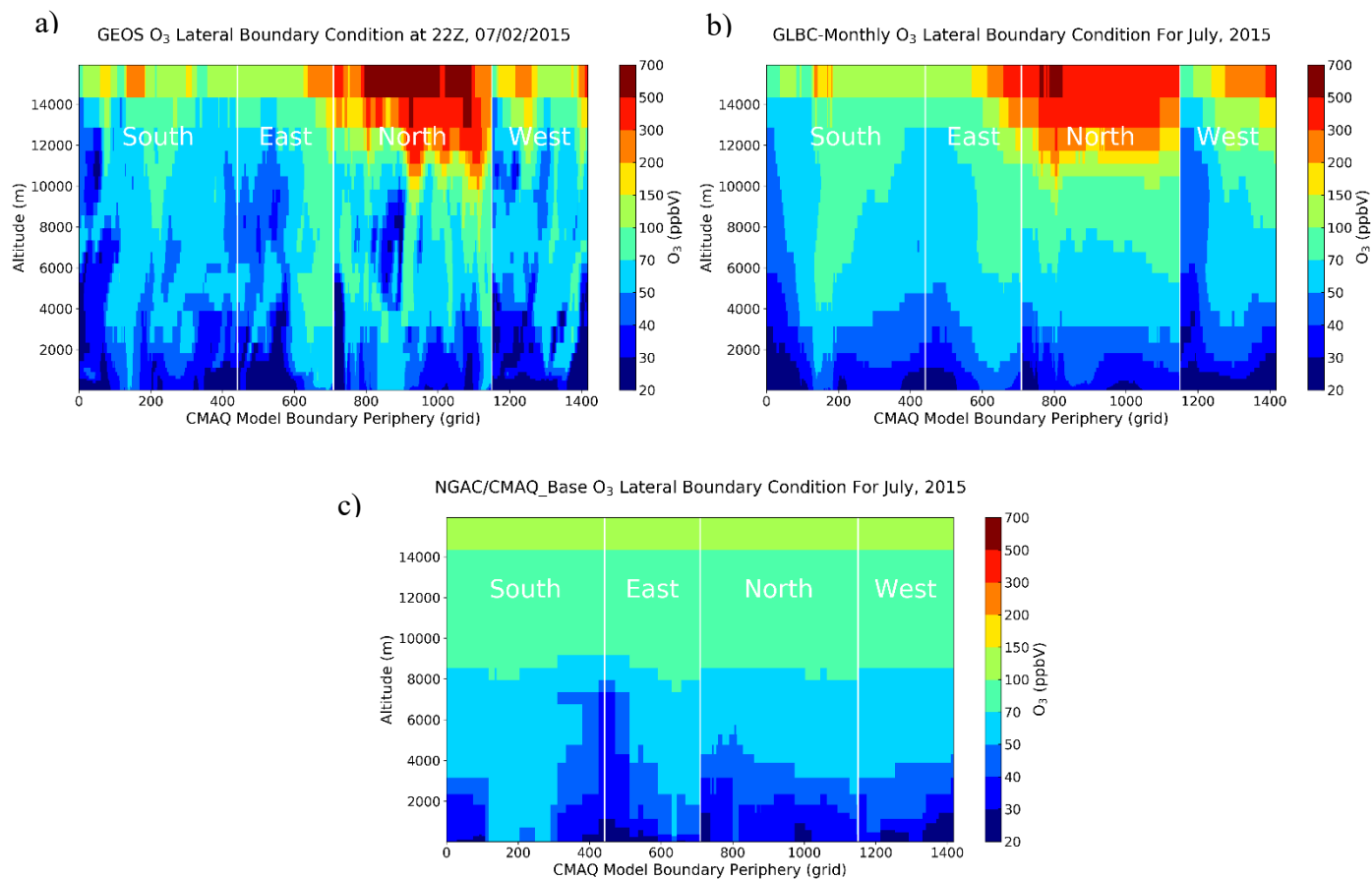


Figure S1. The lateral boundary conditions for O₃ along the domain periphery on July 02, 2015.

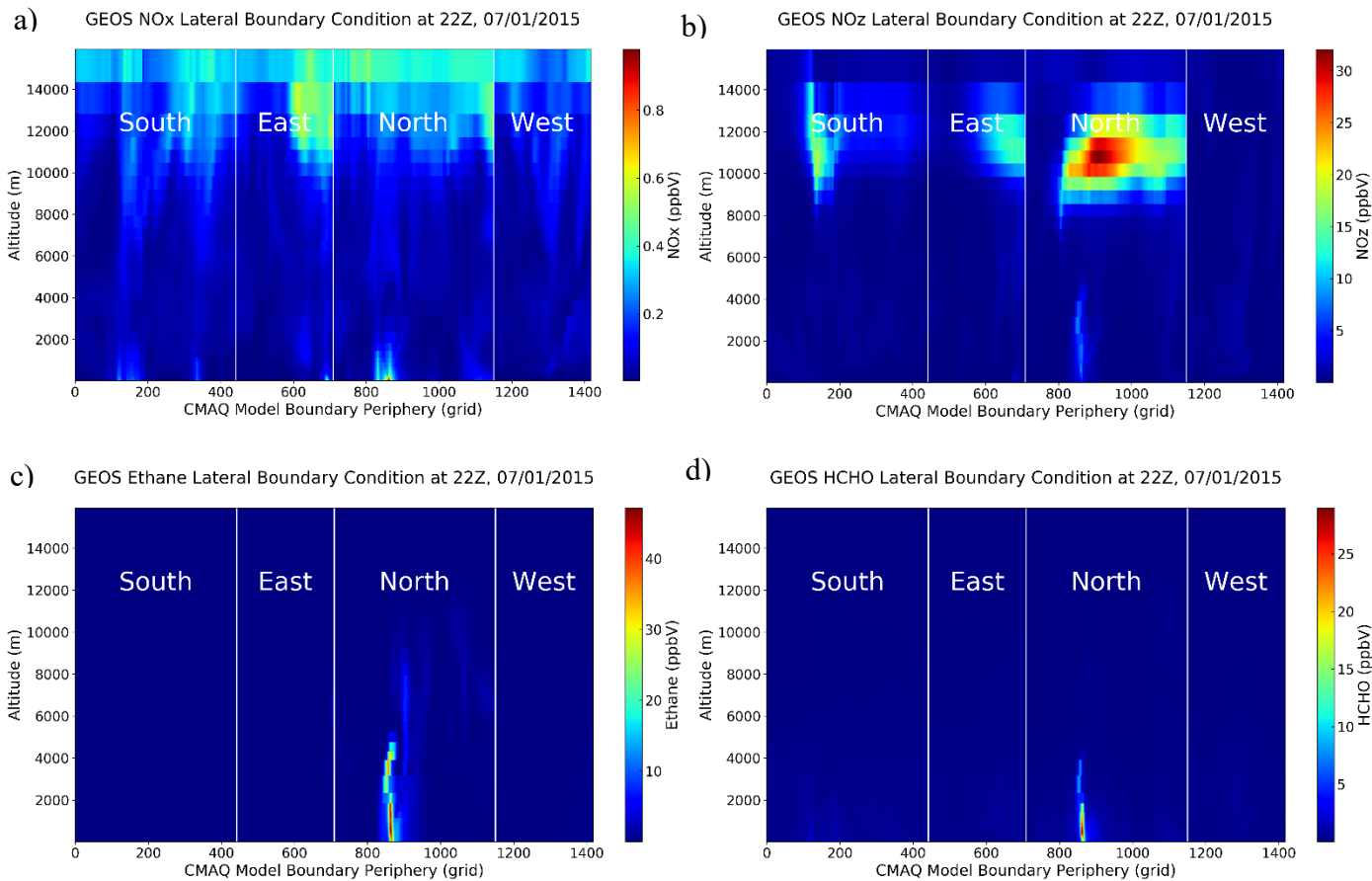


Figure S2. The GEOS lateral boundary conditions for NO_x, NO_z, ethane (C₂H₆) and HCHO along the domain periphery on July 01, 2015.

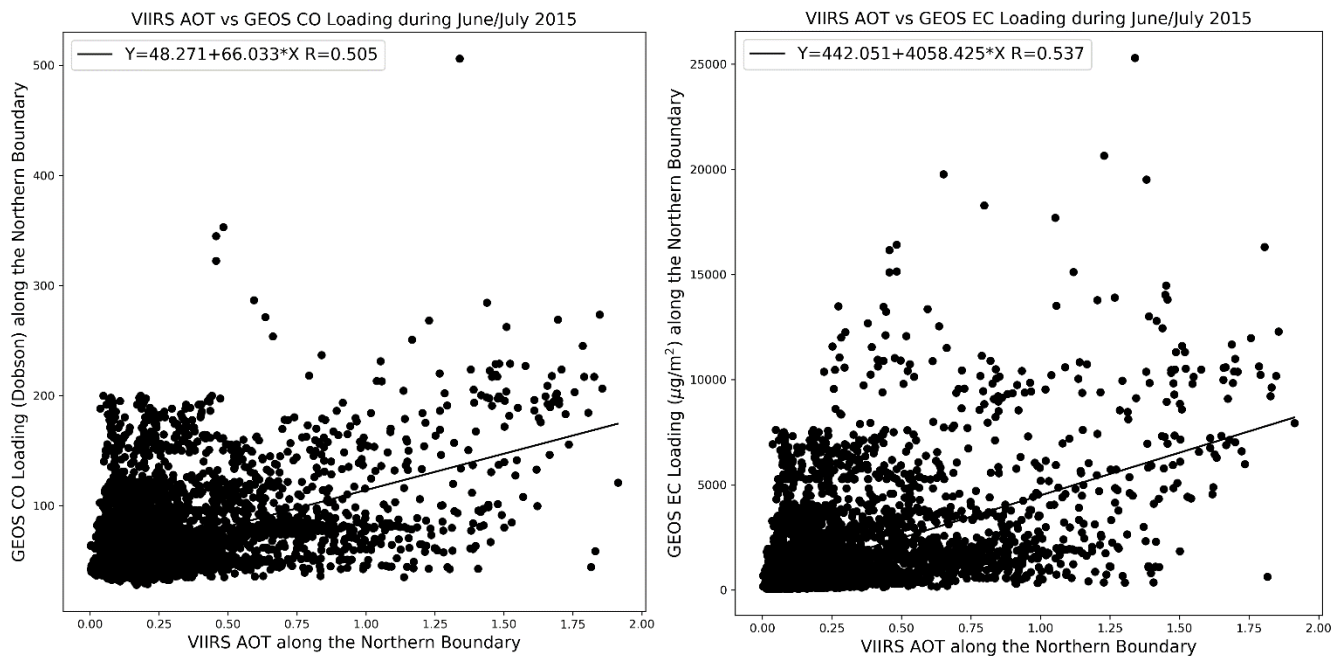


Figure S3. Correlations between AOT/CO (left) and AOT/EC (right) along the Northern Boundary of the CONUS domain during June and July 2015.

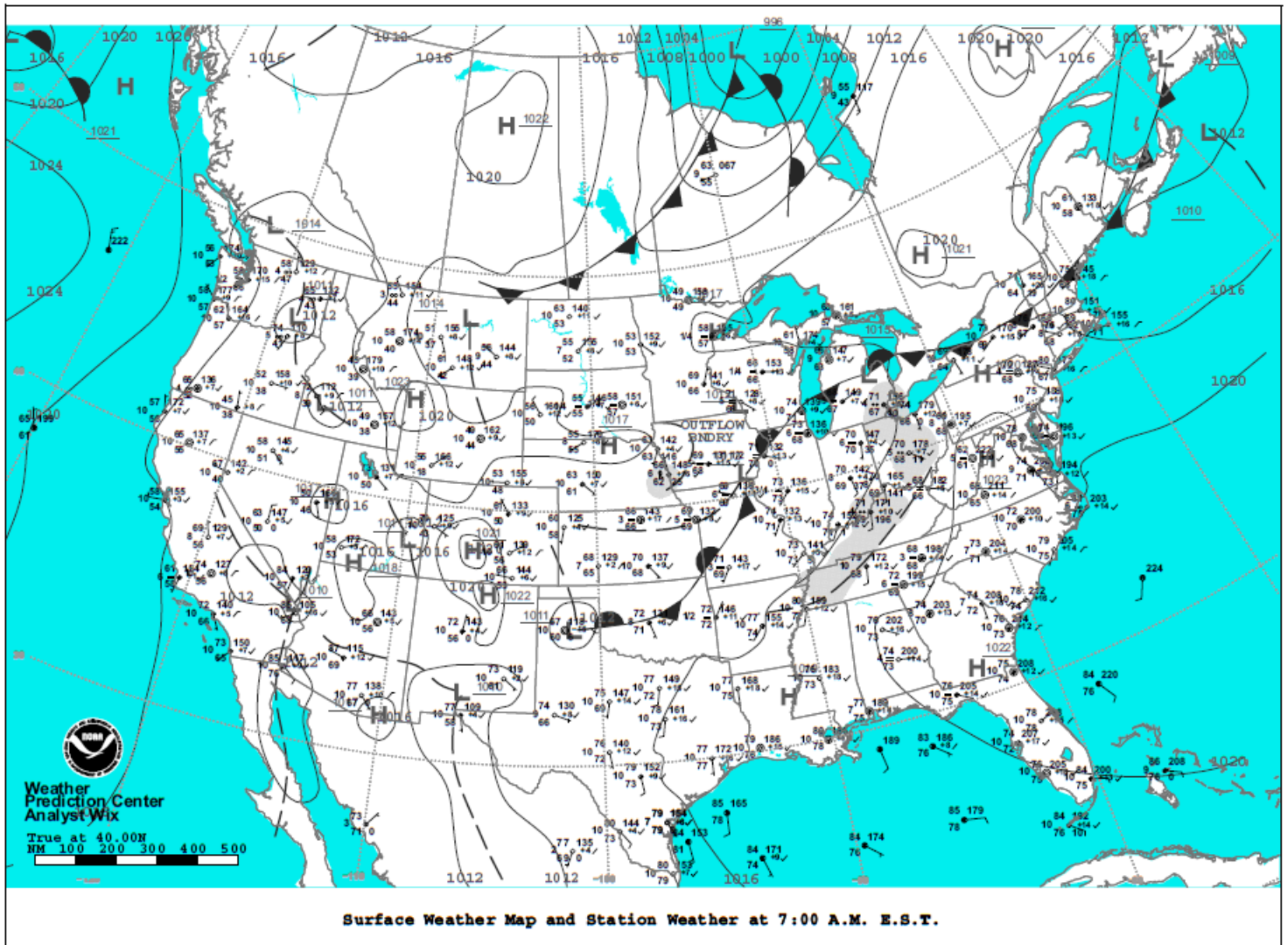


Figure S4, Surface weather map on 08/16/2018 from <https://www.wpc.ncep.noaa.gov/>