



Supplement of

**Comparison of chemical lateral boundary conditions
for air quality predictions over the contiguous
United States during pollutant intrusion events**

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Supplement Figures

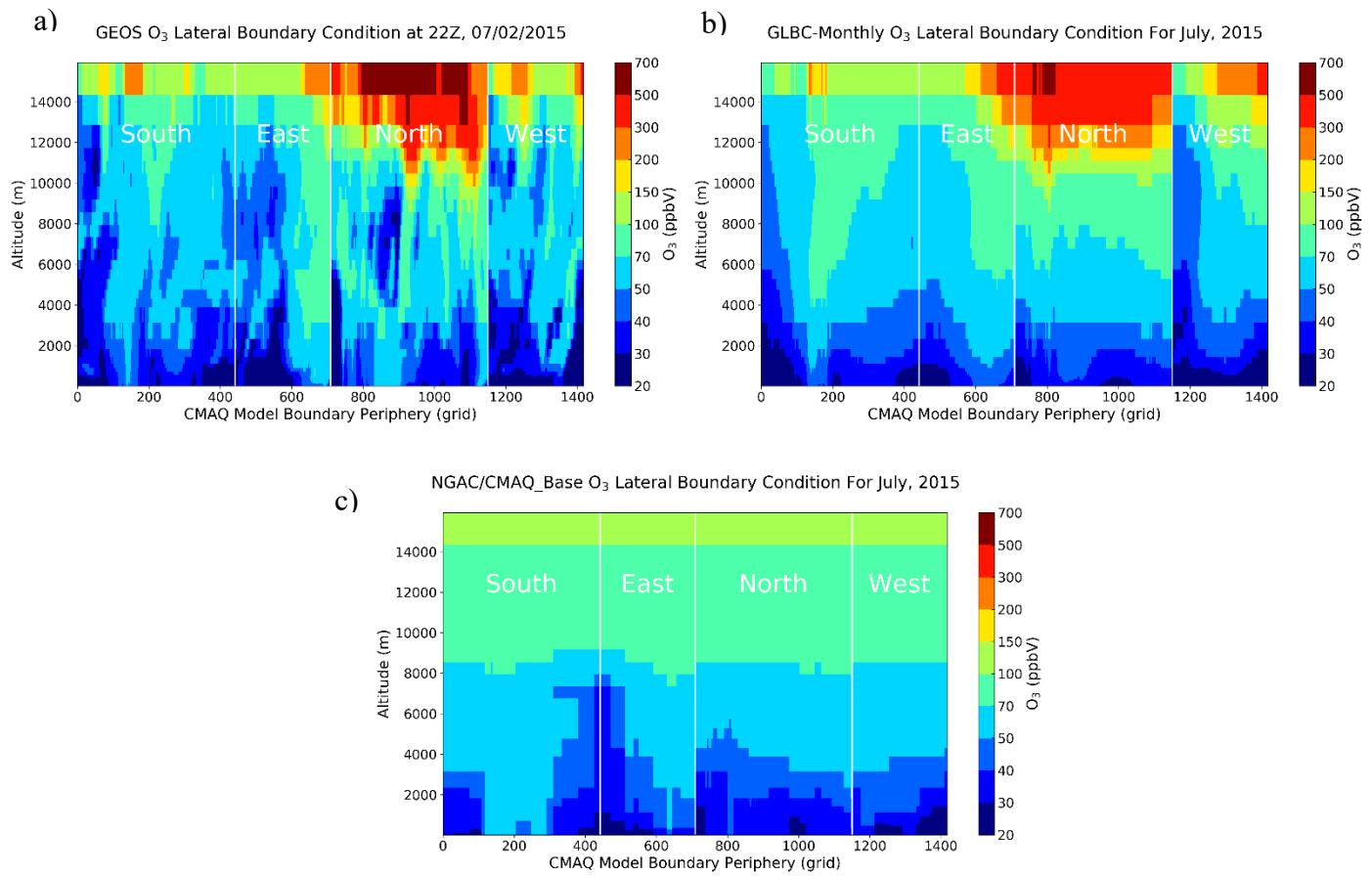


Figure S1. The lateral boundary conditions for O₃ used in three CMAQ simulations along the domain periphery on 2 July, 2015.

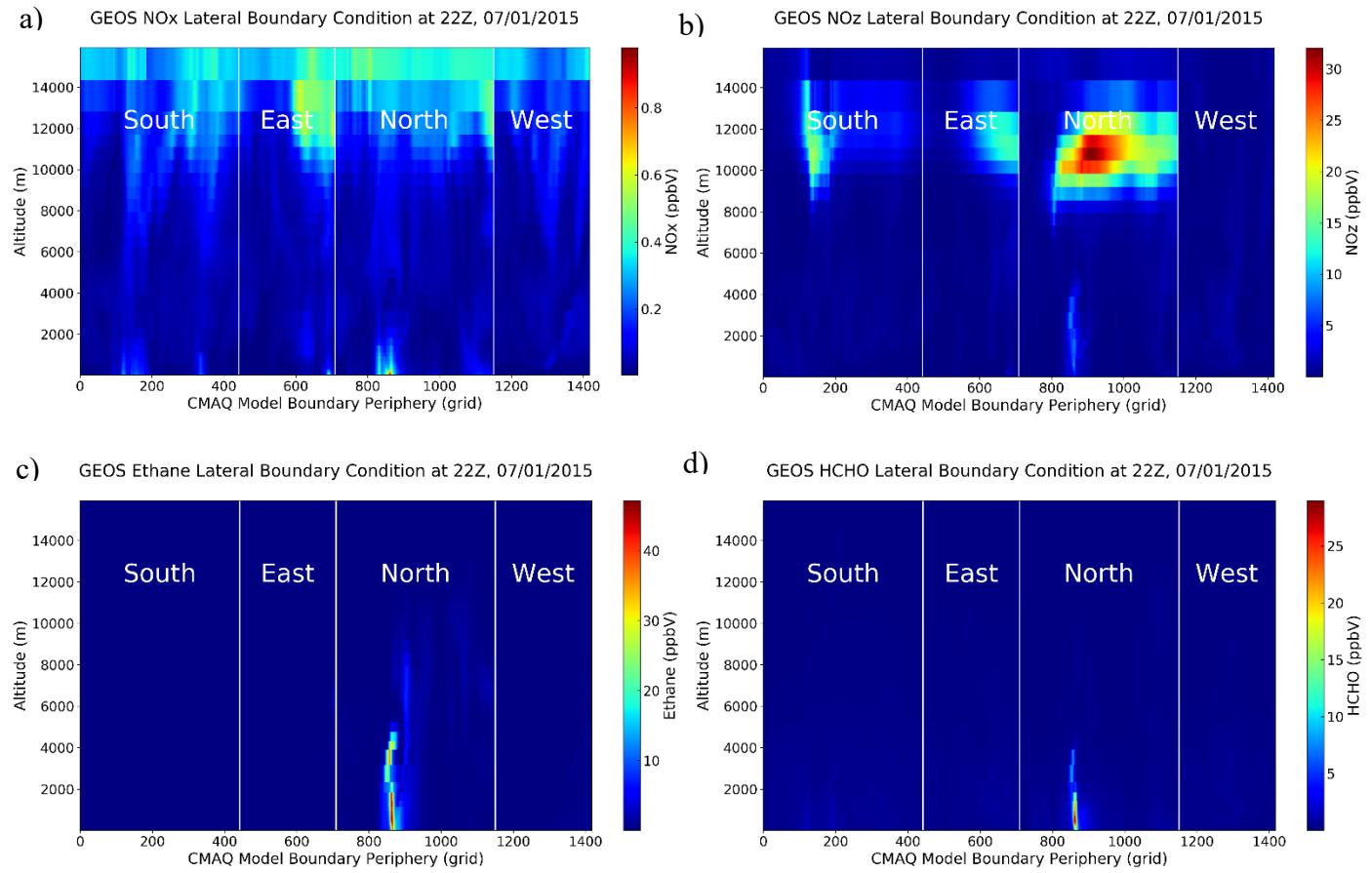


Figure S2. The GEOS lateral boundary conditions for NOx, NOz, ethane (C_2H_6) and HCHO along the domain periphery on 1 July, 2015.

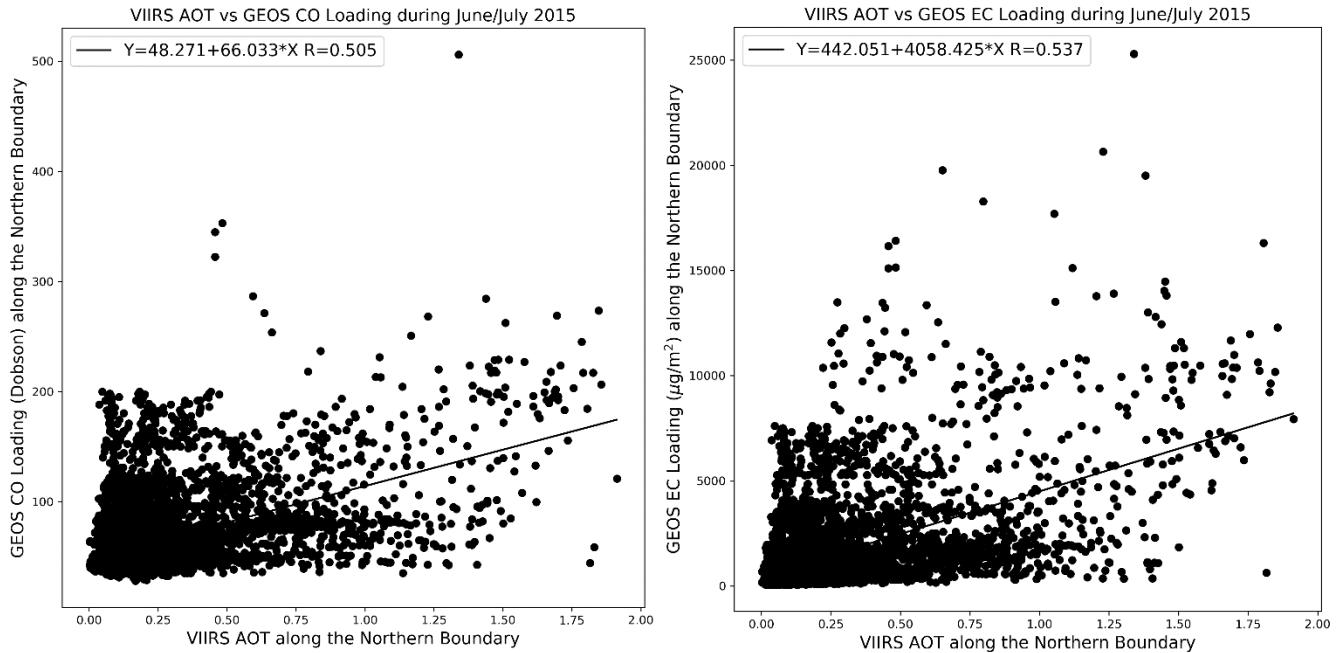


Figure S3. Correlations between AOT/CO (left) and AOT/EC (right) along the northern boundary of the CONUS domain during June to July 2015.

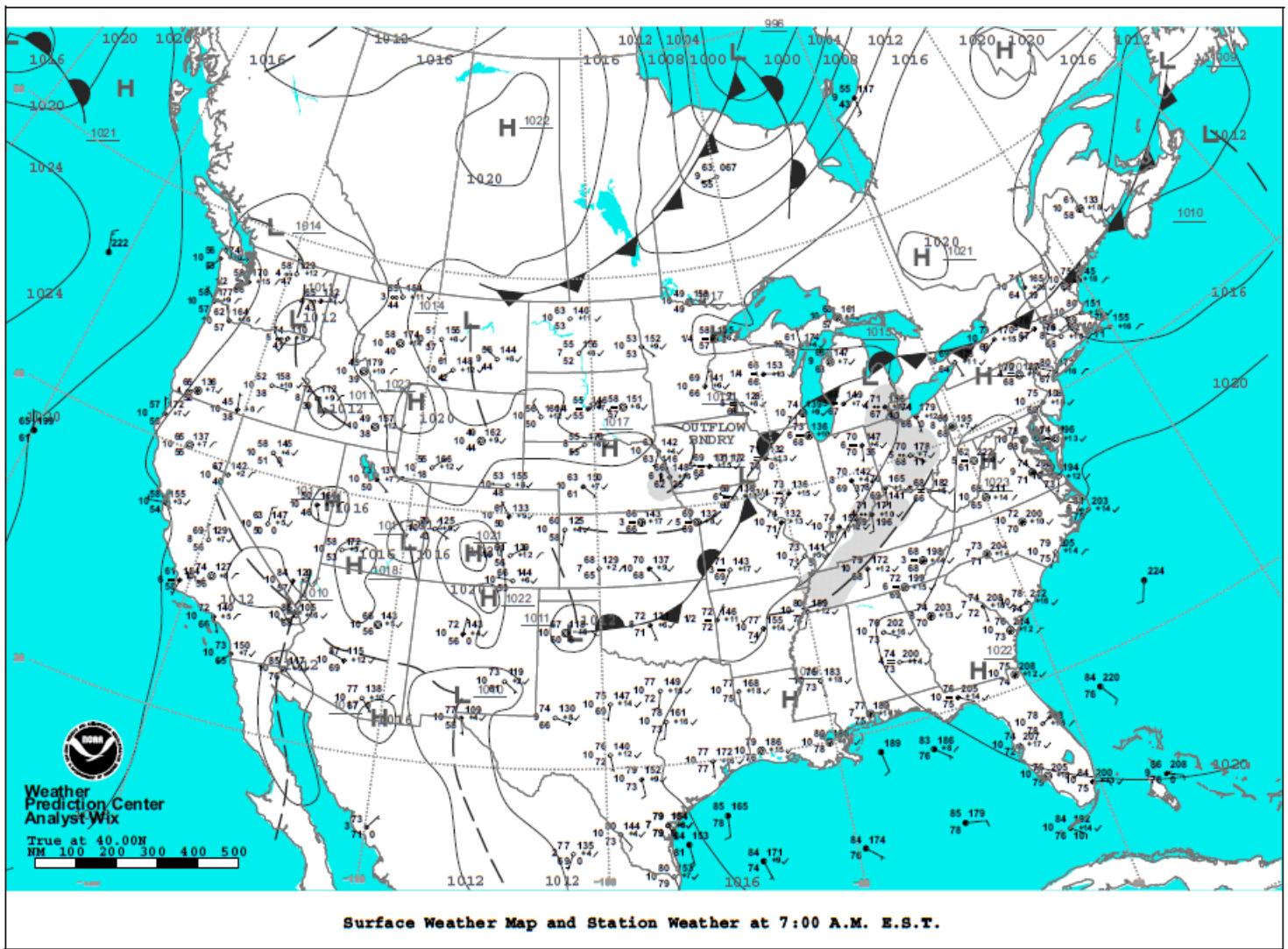


Figure S4. Surface weather map on 16 August, 2018 from <https://www.wpc.ncep.noaa.gov/>