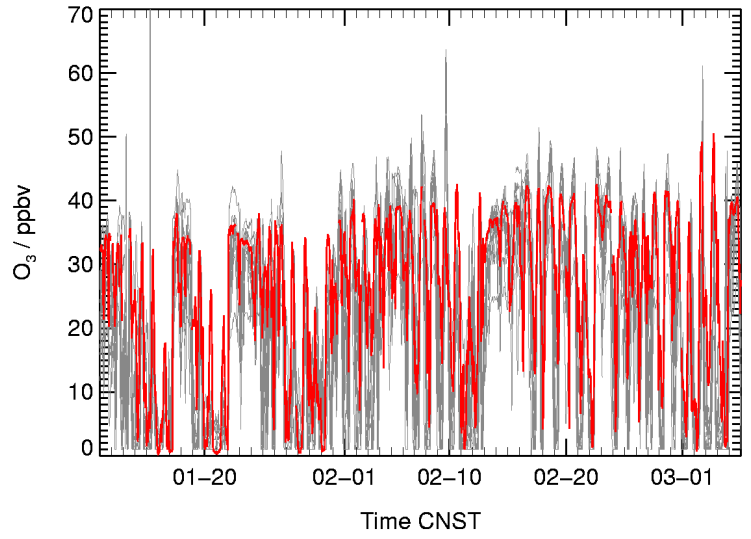
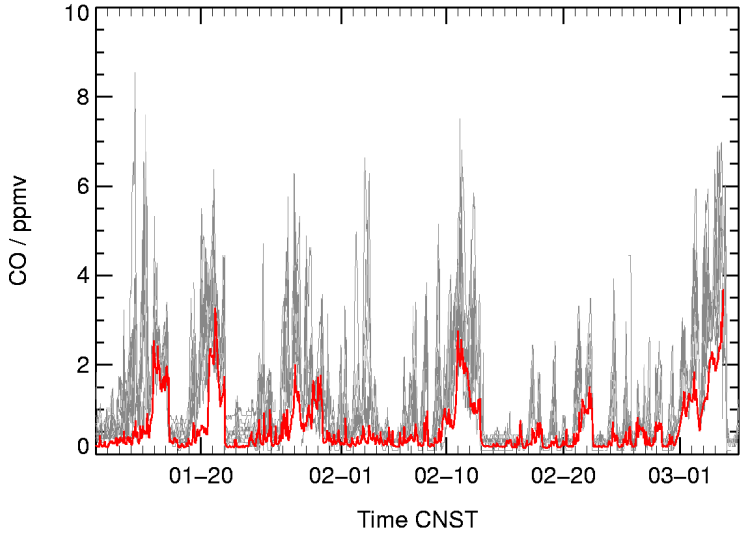
Supplement of

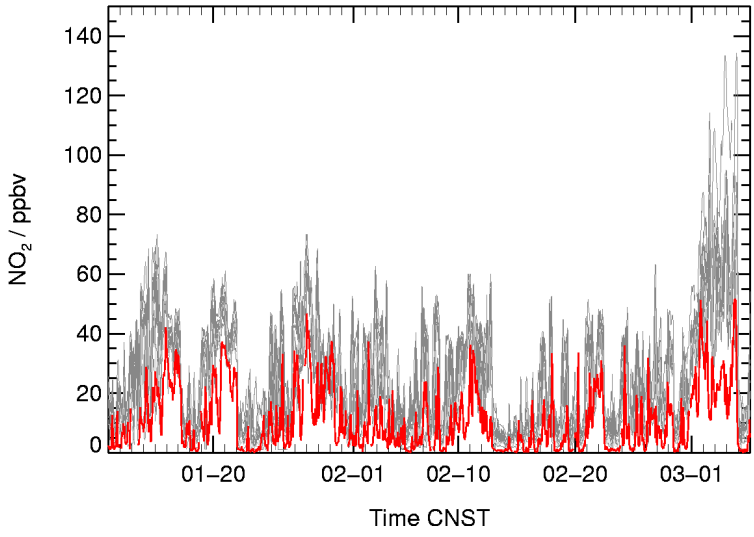
Wintertime photochemistry in Beijing: Observations of ROx radical concentrations in the North China Plain during the BEST-ONE campaign

Zhaofeng Tan et al.

Correspondence to: Keding Lu (k.lu@pku.edu.cn) and Yuanhang Zhang (yhzhang@pku.edu.cn)


70
60
50
40
30
20
10
0
O_3 / ppbv
01–20
02–01
02–10
02–20
03–01
Time CNST


10
8
6
4
2
0
CO / ppmv
01–20
02–01
02–10
02–20
03–01
Time CNST


140
120
100
80
60
40
20
0
NO_2 / ppbv
01–20
02–01
02–10
02–20
03–01
Time CNST

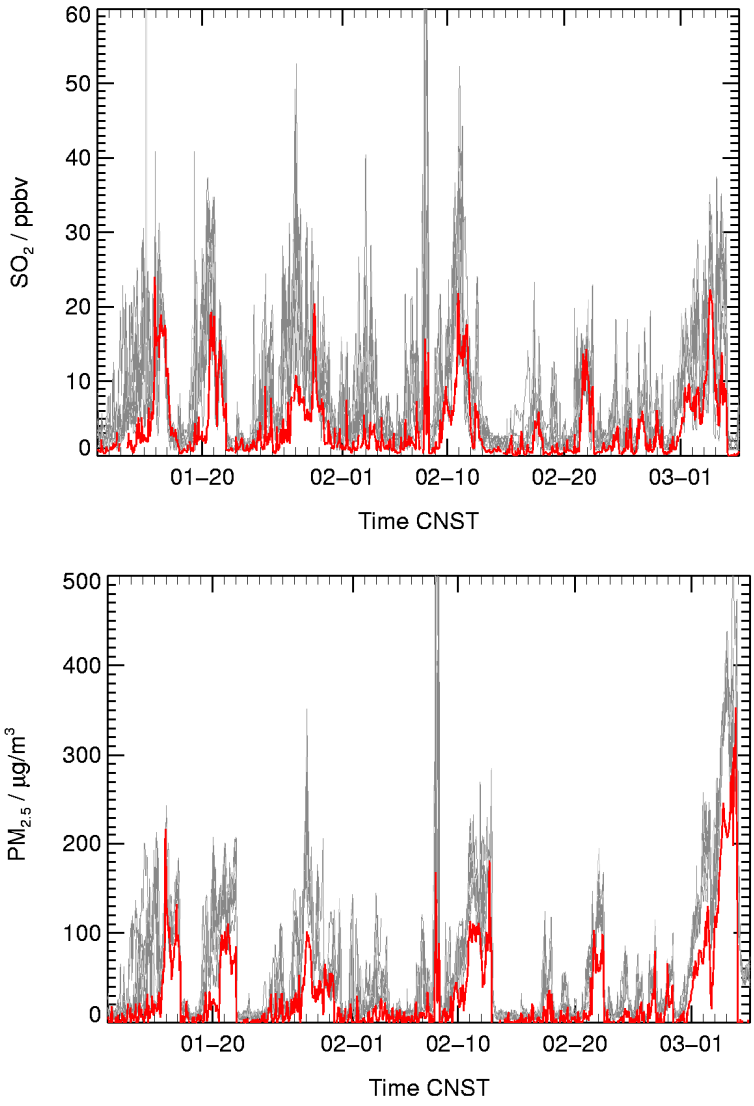


Figure S1. Time series of measured CO, O_3, NO_2, SO_2, and PM2.5 (Red: measurement at BEST-ONE site; Grey: measurements at 12 Environmental Protection Agency stations in Beijing urban areas)

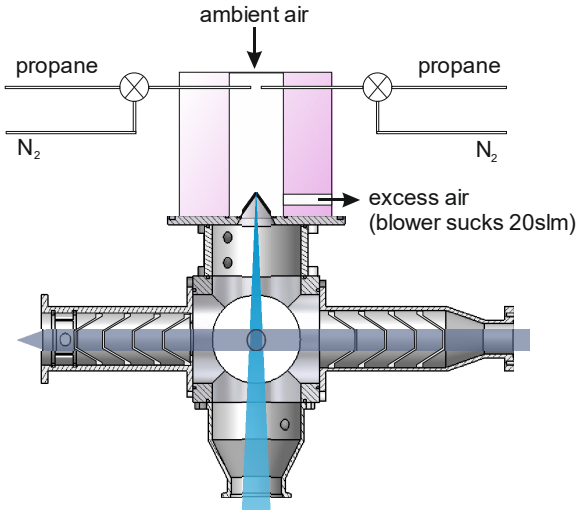


Figure S2. Schematic plot of the chemical modulation setup.

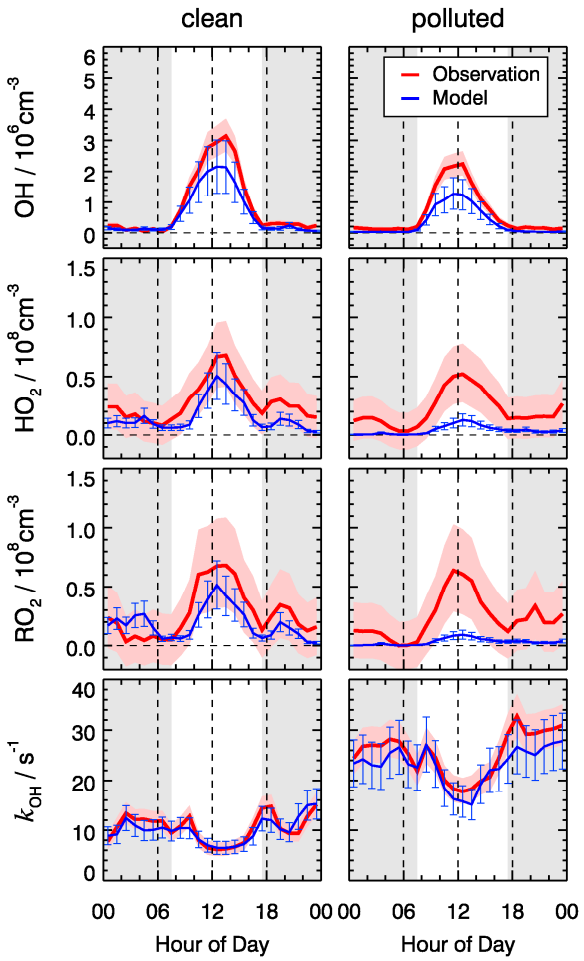


Figure S3. Measurement and model calculation comparison for clean (left) and polluted episodes (right). Thick lines give median values, colored areas give the 25 and 75% percentiles. The vertical bars denote the modelled uncertainty (40%).