

Supplementary material description

The supplementary material includes the data results plots of seasonal variations of gaseous pollutant and particulate matter concentrations in Shihezi and Urumqi in the Wu-Chang-Shi area and data results plots of the influence of meteorological factors on gaseous pollutant and particulate matter concentrations in Shihezi and Urumqi, Supplementary Figures S1-S4.

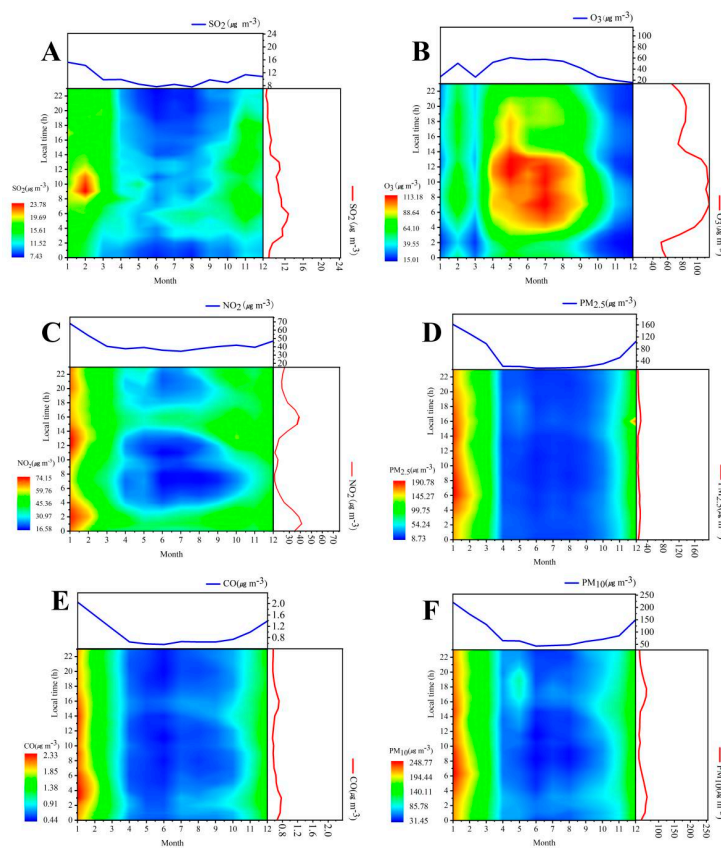


Figure S1. Shihezi time-dependent distribution of gas concentrations (a SO₂, b O₃, c NO₂ and e CO) and particulate matter (d PM_{2.5} and f PM₁₀) (filled colours).

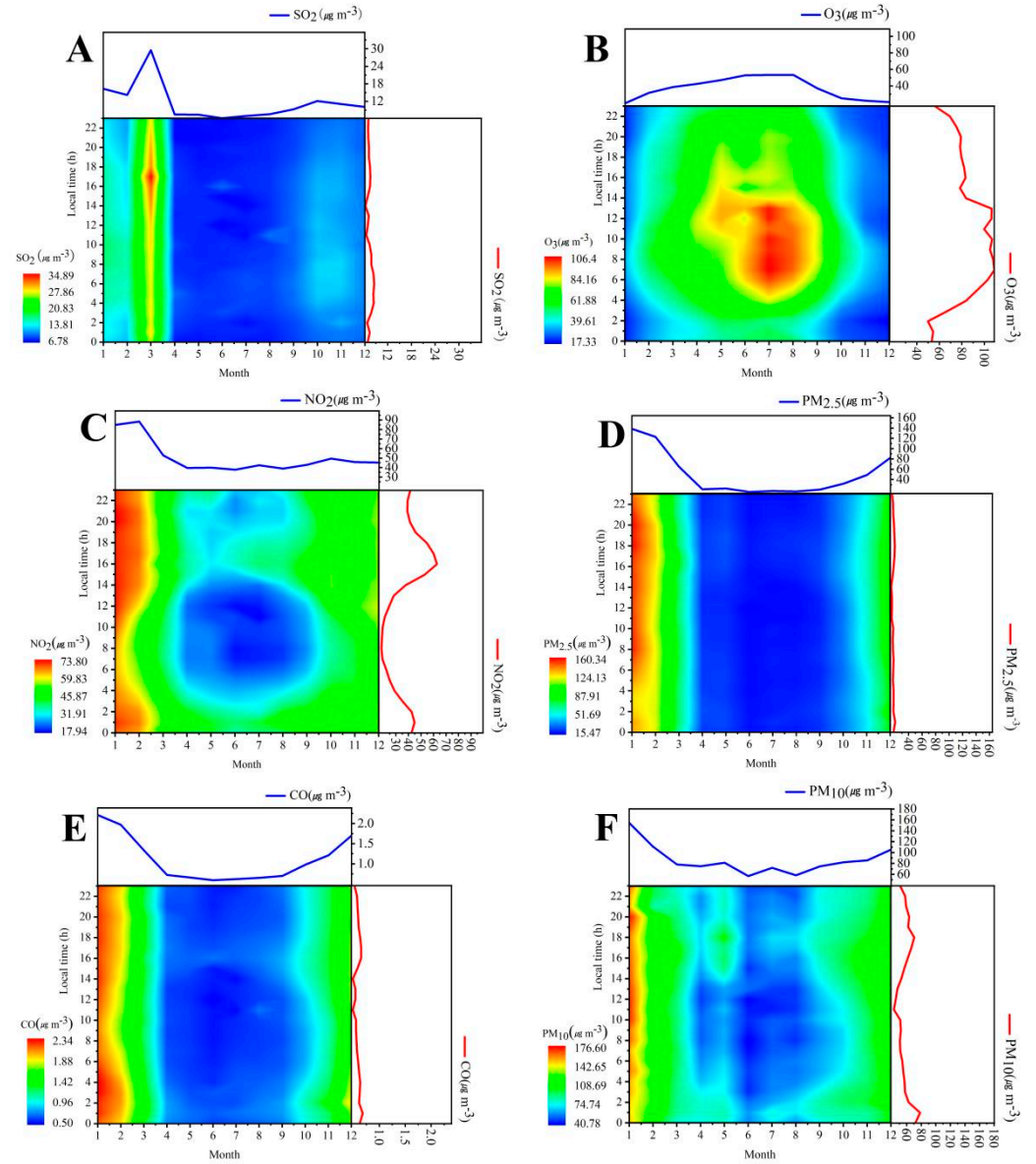


Figure S2. Urumqi time-dependent distribution of gas concentrations (**a** SO_2 , **b** O_3 , **c** NO_2 and **e** CO) and particulate matter (**d** $\text{PM}_{2.5}$ and **f** PM_{10}) (filled colours).

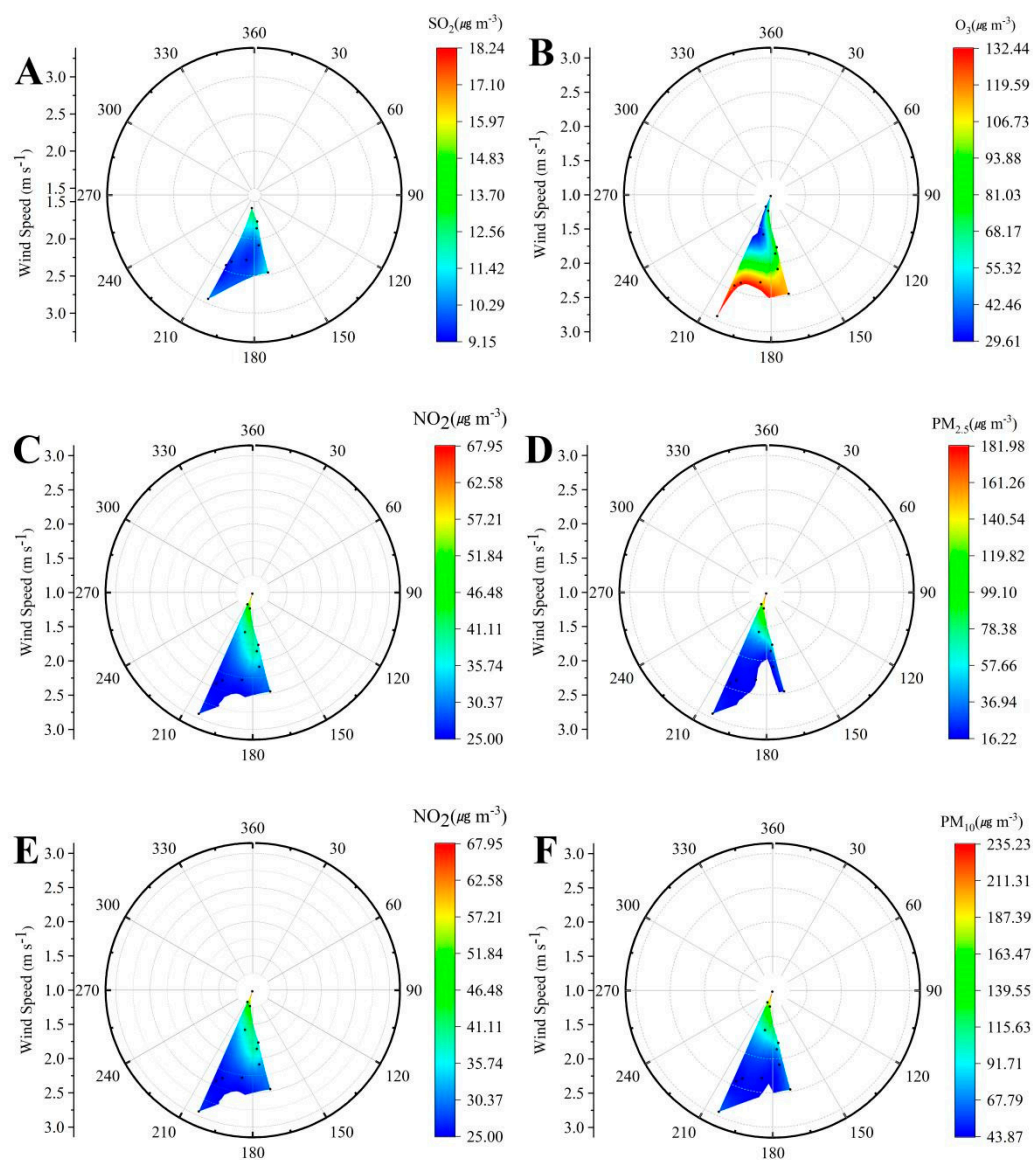


Figure S3. Polar plots of SO_2 , NO_2 , CO , O_3 , $\text{PM}_{2.5}$ and PM_{10} concentrations in the Shihezi. **a** SO_2 . **b** O_3 . **c** NO_2 . **d** $\text{PM}_{2.5}$. **e** CO . **f** PM_{10} .

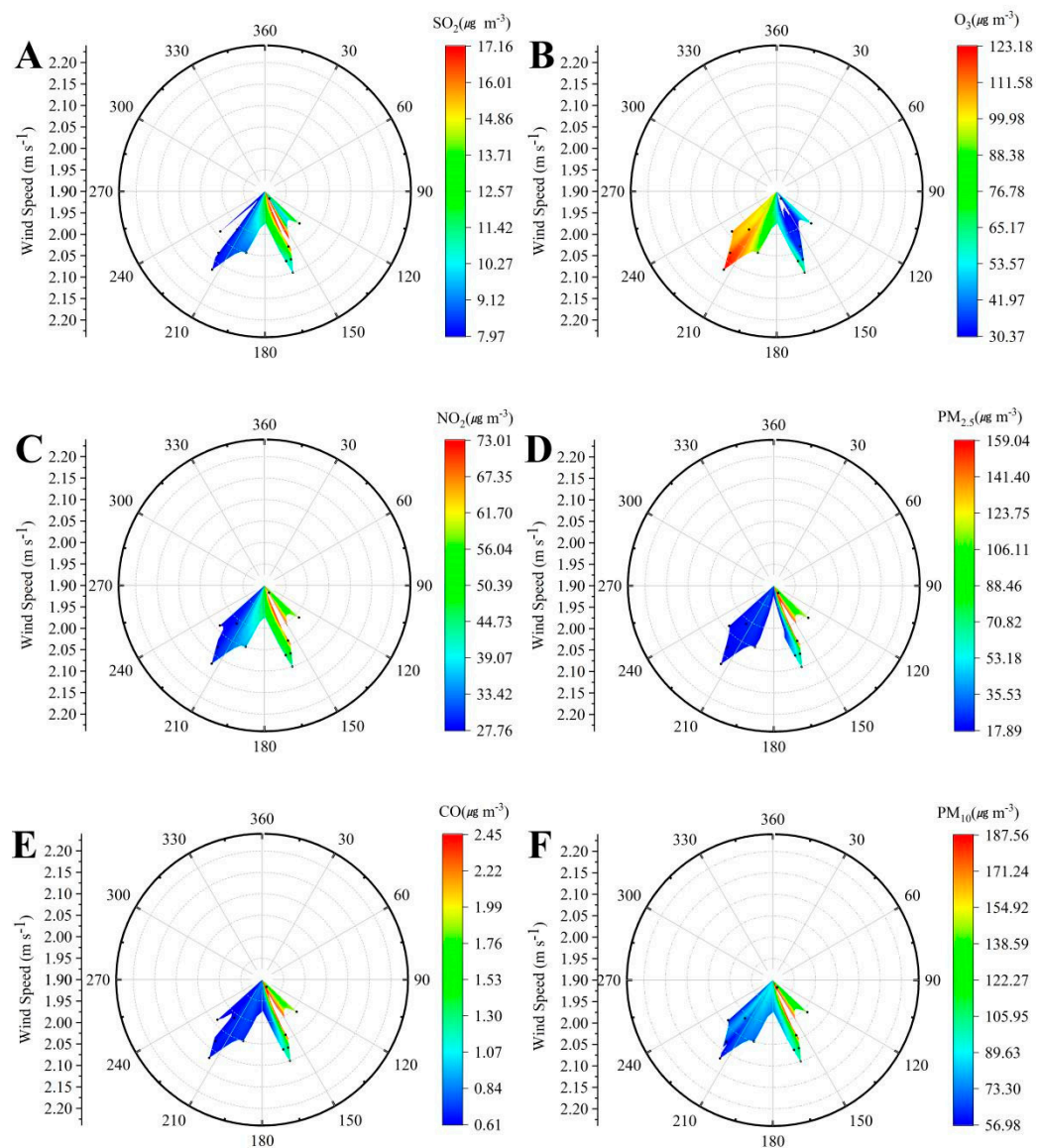


Figure S4. Polar plots of SO₂, NO₂, CO, O₃, PM_{2.5} and PM₁₀ concentrations in the Urumqi. **a** SO₂. **b** O₃. **c** NO₂. **d** PM_{2.5}. **e** CO. **f** PM₁₀.