

Supplementary Materials: Spatial Distributions of Atmospheric Ammonia in a Rural Area in South Korea and the Associated Impact on a Nearby Urban Area

Sangmin Oh¹, Seung-Gi Kim¹, Jae Bong Lee², Junsu Park¹, Joon-Bum Jee³, Se-Woon Hong⁴, Kyeong-Seok Kwon⁵, Mijung Song^{1,6,*}

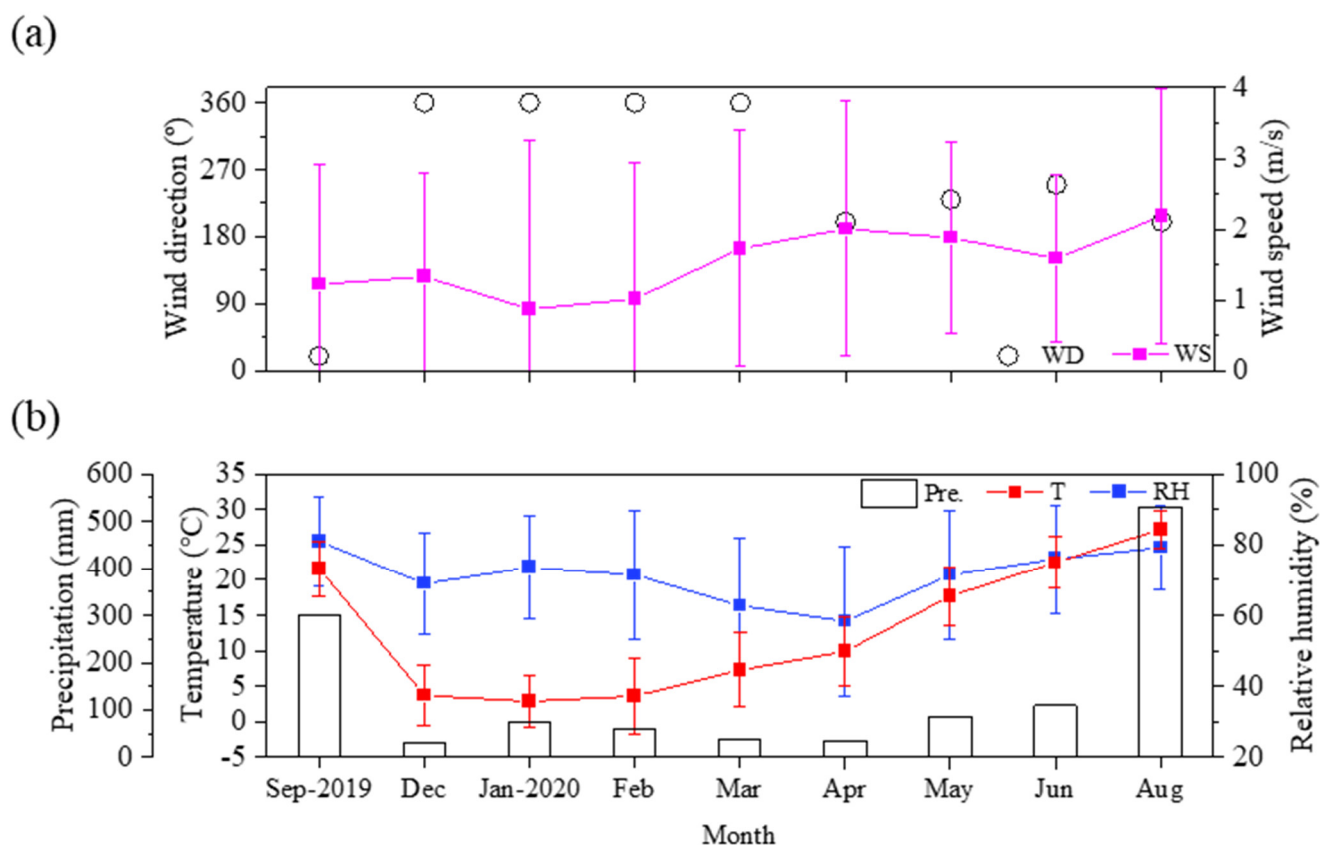


Figure S1. Monthly meteorological conditions of (a) wind direction (WD) and wind speed (WS), and (b) cumulative precipitation (Pre.), temperature (T), and relative humidity (RH) at Jeongeup in the rural area from September 2019 to August 2020.

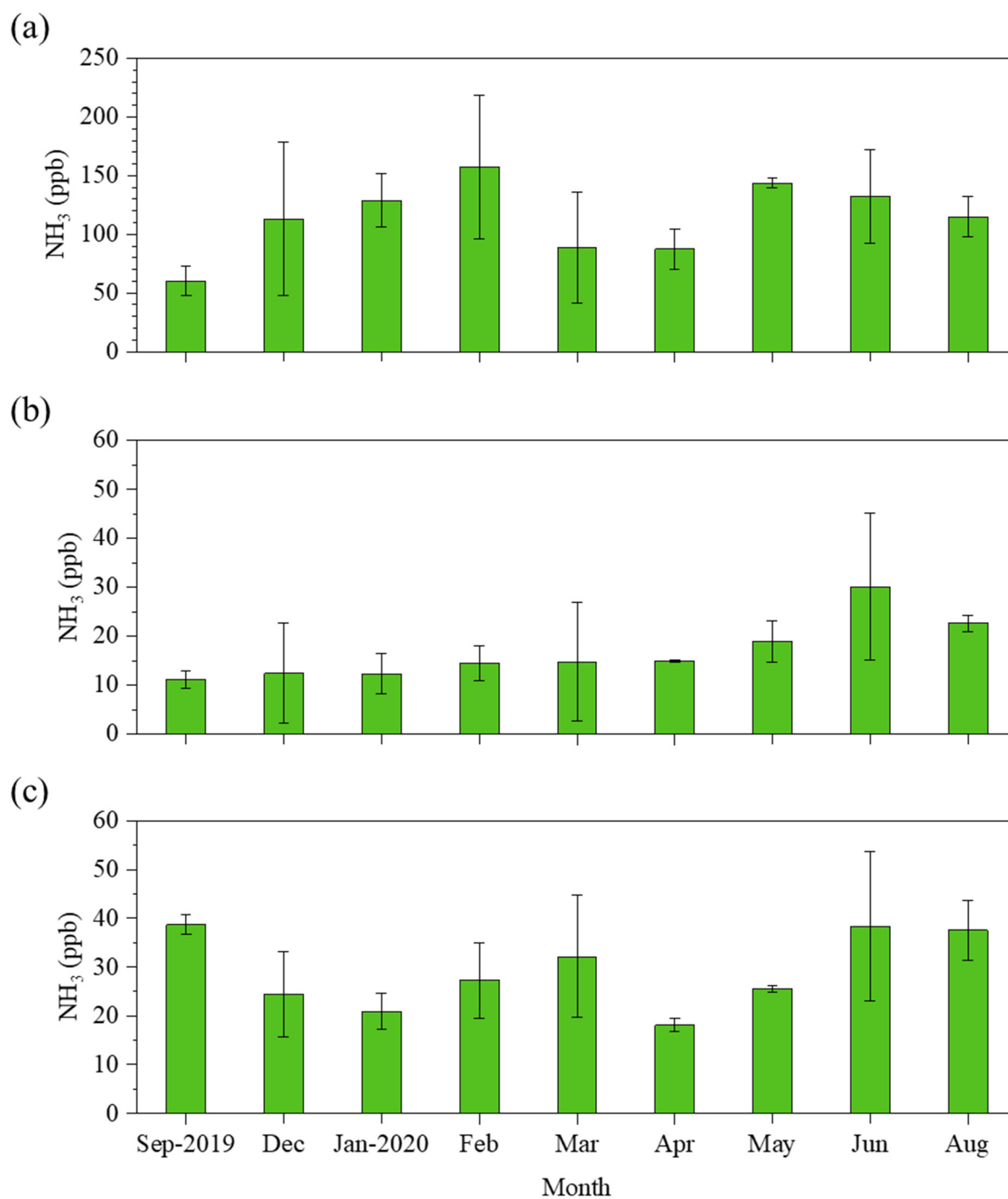


Figure S2. Monthly variations in ambient NH_3 concentrations with standard deviations at the monitoring sites of (a) R1, (b) R2, and (c) R3 in a rural area during September 2019 - August 2020.

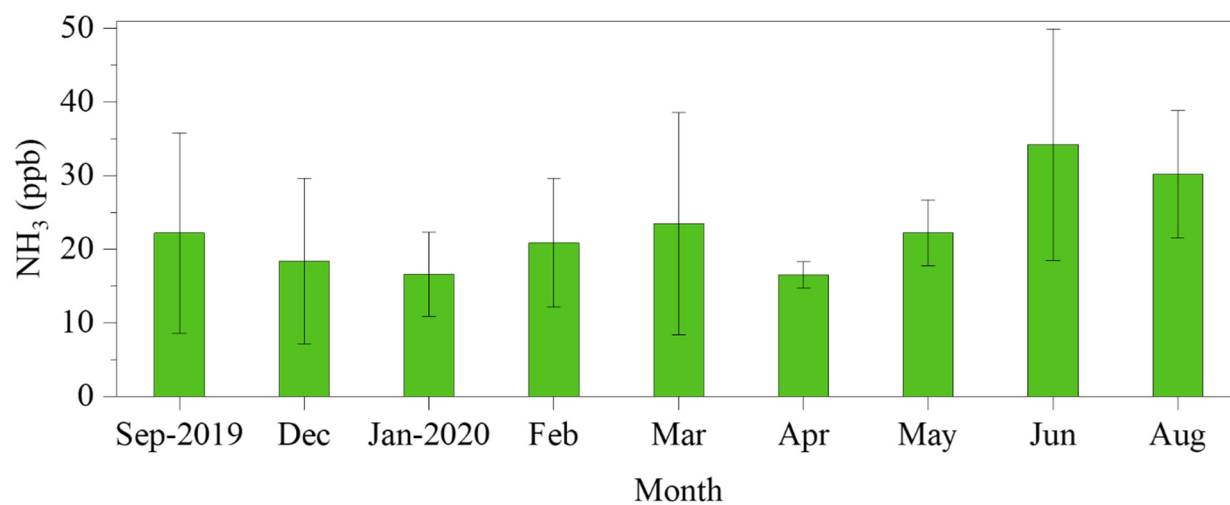


Figure S3. Monthly variations in ambient NH_3 concentrations averaged at the rural sites R2 and R3 during September 2019–August 2020.

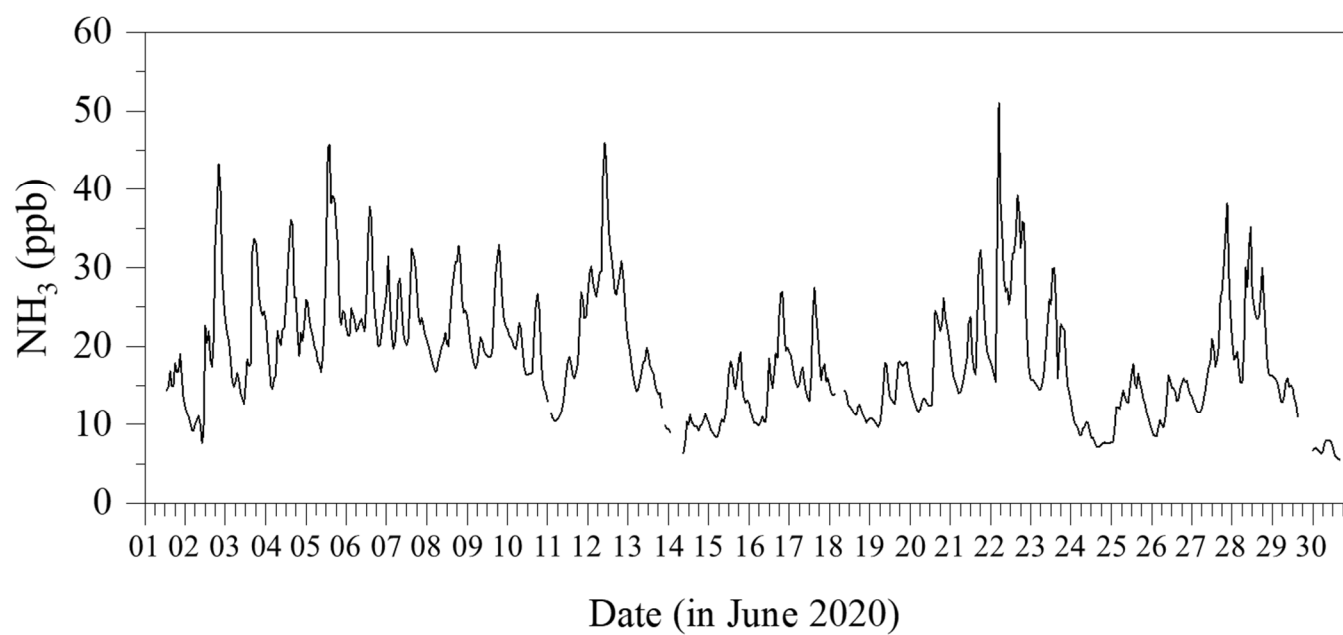


Figure S4. Time series of hourly mean NH₃ concentrations measured at the urban (Jeonju) during 1-30 June 2020.

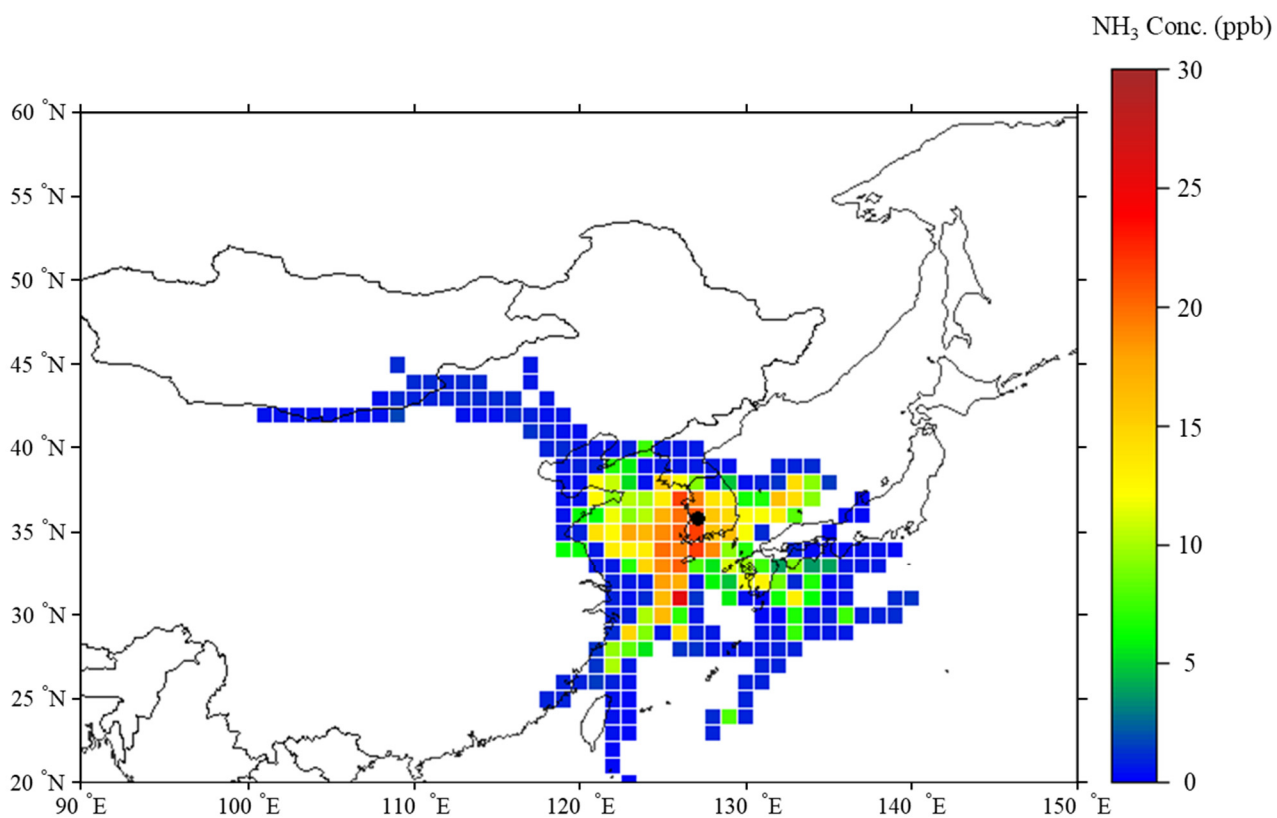


Figure S5. Concentration weighted trajectory (CWT) of grid cells (1° × 1°) at 90th percentile for ambient NH₃ in urban (Jeonju) during June 2020. The color bar indicates ambient NH₃ concentrations.