Figure S1. Diurnal variation of temperature profile (a, "Day" and "Night" refer to 7:00 to 18:00 and 19:00 to 06:00 of the next day in Beijing time respectively) and supersaturation (b)
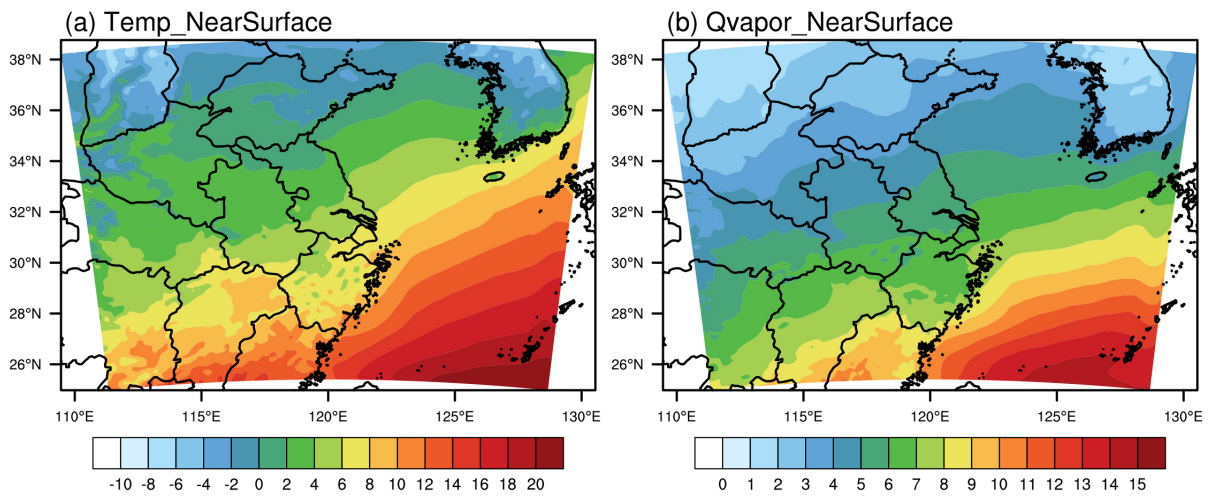
Figure S2. Distributions of near-surface average temperature (unit: °C, a) and water vapor content (unit: g·m^{-3}, b)