

Detecting critical PM_{2.5} emission sources and their contributions to a heavy haze episode in Beijing, China by using an adjoint model

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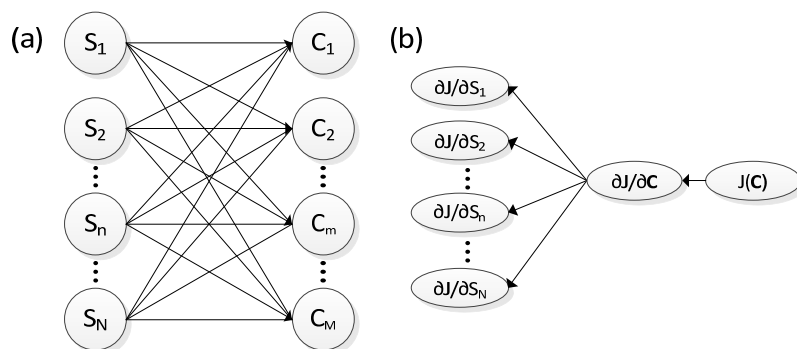


Figure S1. Schematic diagrams of the atmospheric chemistry forward (a) and adjoint (b) models. $S_1, S_2, \dots, S_n, \dots, S_N$ are emission sources of different sectors, or of different species, at different locations etc., and S is the emission vector; $C_1, C_2, \dots, C_m, \dots, C_M$ are pollutant concentrations at different sites, or of different species, and C is the concentration vector.

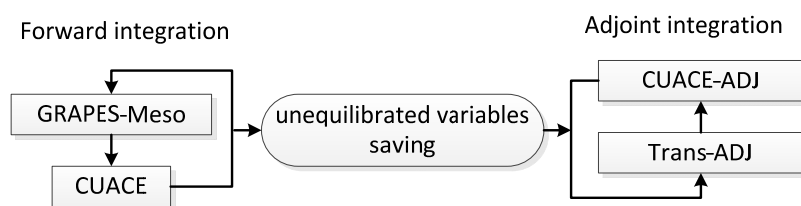


Figure S2. Operational processes of the GRAPES-CUACE aerosol adjoint