
Supplemental Information (Figures)

**Modeling the impact of marine DMS emissions on
summertime air quality over the coastal East China Seas**

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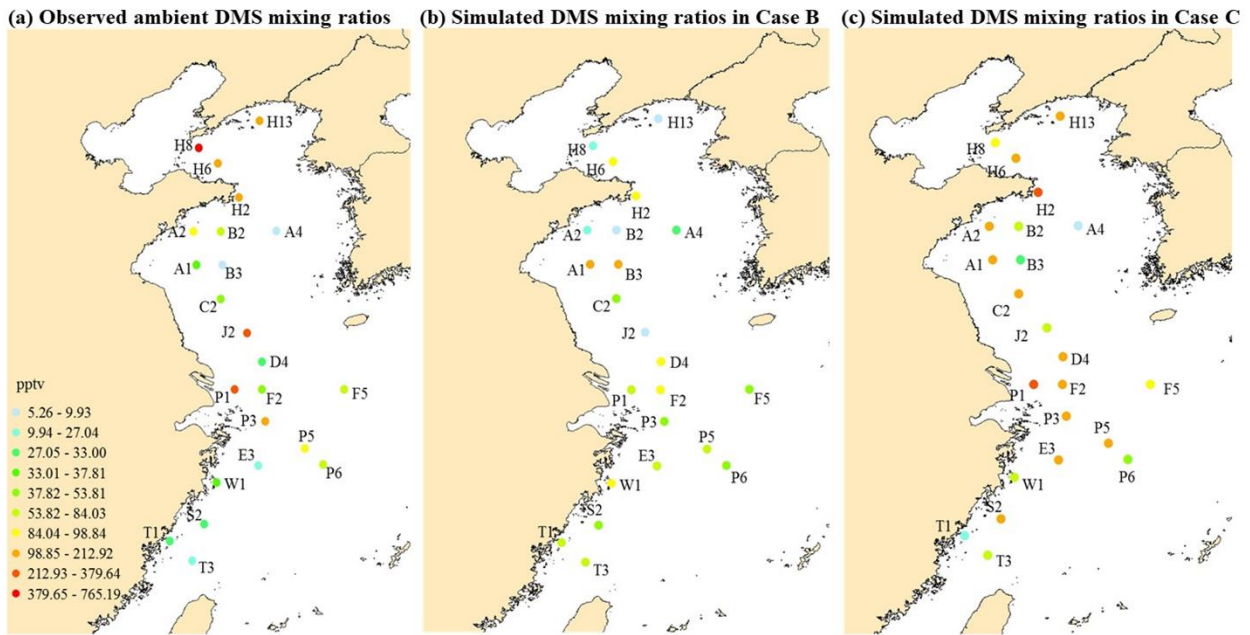


Figure S1. Comparisons of atmospheric DMS mixing ratios (a) measurement, (b) simulated with the global DMS database (Case B) and, (c) simulated with the localized DMS database (Case C). (unit: pptv). The locations of the colored circles were the sampling stations in the cruise survey experiment in 2018.

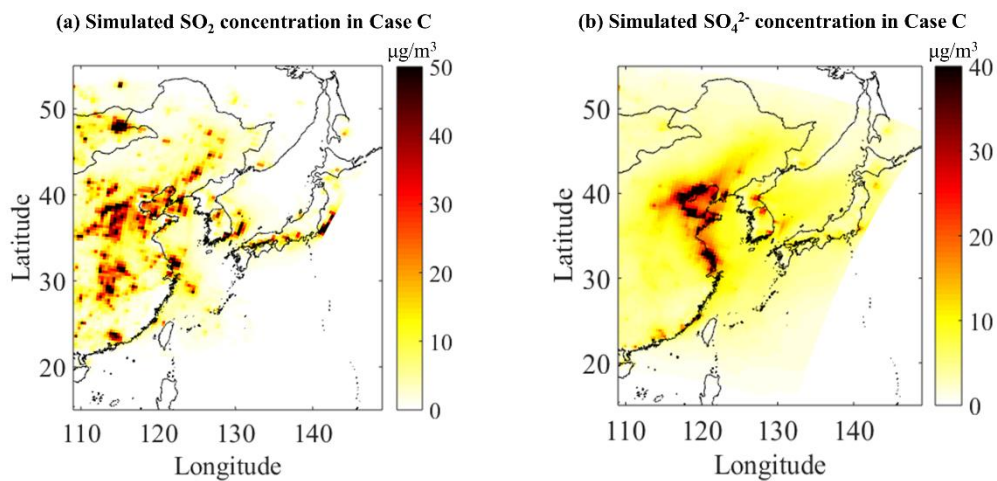


Figure S2. Monthly mean atmospheric (a) SO₂ and (b) SO₄²⁻ concentration in Case C (case with local database and LM86 parameterization).

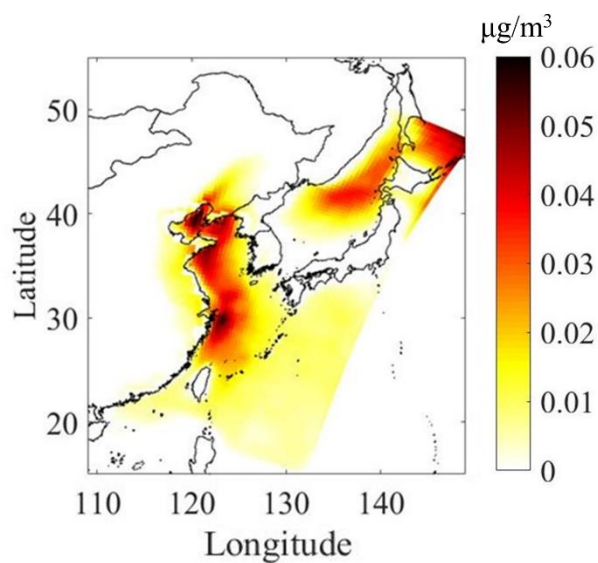


Figure S3. The spatial distribution of atmospheric gas-phase MSA in Case C (case with local database and LM86 parameterization).

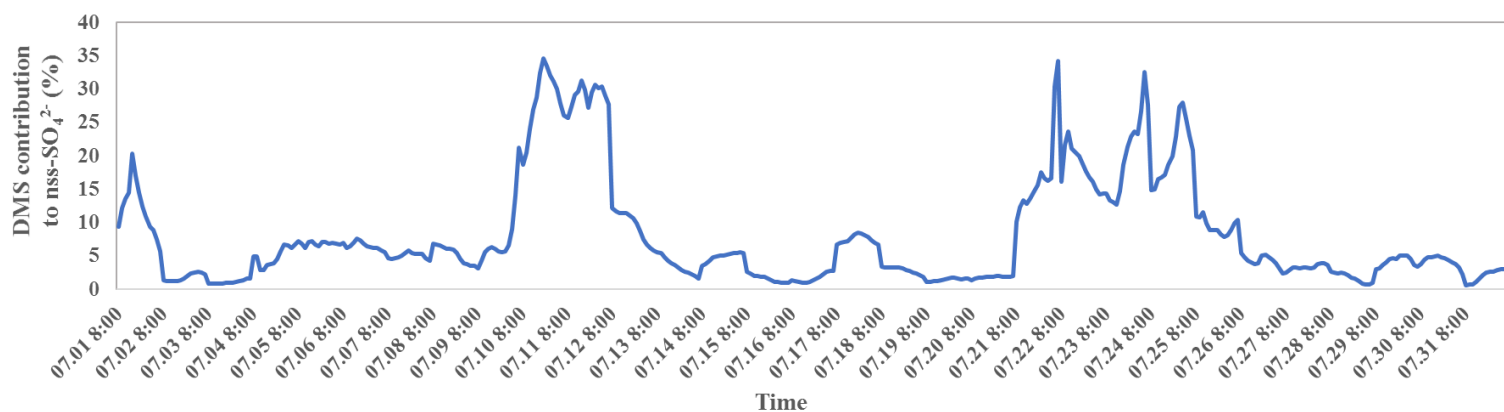


Figure S4. A time series of the daytime (8:00-20:00) contribution of DMS to nss-SO_4^{2-} over a selected area of the East China Sea (124.2°E-124.7°E, 30.1°N-31.3°N).