

Supplemental Information (Tables)

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

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Table S1. DMS reactions added into CB05 gas phase chemical mechanism.

No.	Reaction	Reference
1	DMS + OH = SO ₂ + ... (abstraction channel)	Sander et al. (2016)
2	DMS + OH = 0.75*SO ₂ + 0.25*MSA+ ... (addition channel)	Sander et al. (2016)
3	DMS + NO ₃ = SO ₂ + ...	Sander et al. (2016)
4	DMS + BrO = 0.75*SO ₂ + 0.25*MSA+ ...	Atkinson et al. (2006)
5	DMS + IO = 0.75*SO ₂ + 0.25*MSA+ ...	Atkinson et al. (2006)
6	DMS + ClO = 0.75*SO ₂ + 0.25*MSA+ ...	Atkinson et al. (2006)
7	DMS + Cl = 0.86*SO ₂ + ...	Atkinson et al. (2006)