

Supplement of Atmos. Chem. Phys., 18, 11493–11506, 2018
<https://doi.org/10.5194/acp-18-11493-2018-supplement>
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Supplement of

Transport of trace gases via eddy shedding from the Asian summer monsoon anticyclone and associated impacts on ozone heating rates

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Supplementary Figures

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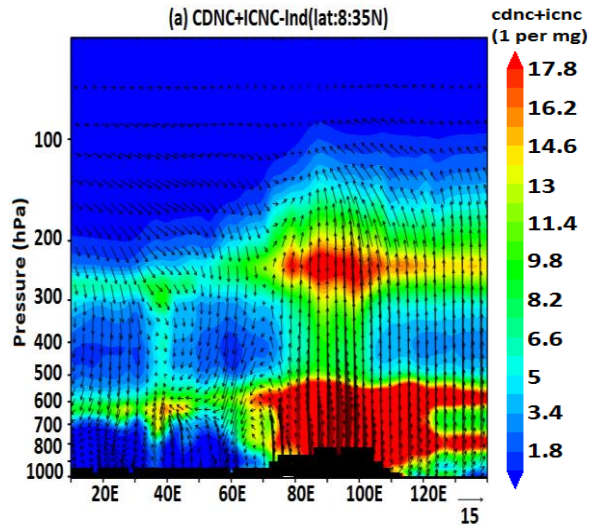
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Figure S1: Distribution of combined cloud droplet (CDNC) and ice crystal (ICNC) number concentrations (in mg^{-1}) (indicating convection) from the CTRL simulation averaged for the monsoon season (June-September) over 8° - 35° N.

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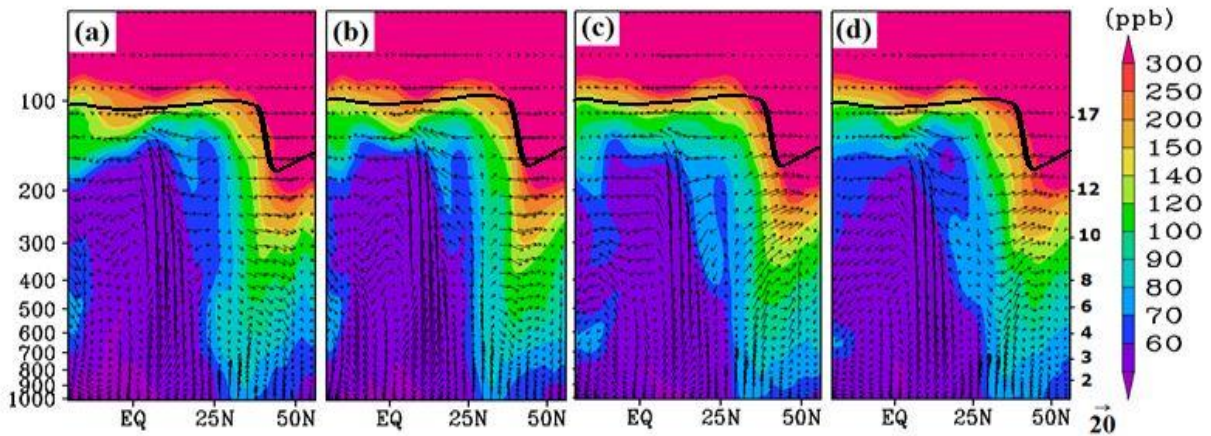
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20 **Figure S2:** Latitude-pressure section at 85°E of ozone (ppb) from ECHAM5-HAMMOZ

21 CTRL simulation for (e) 02 July, (f) 04 July, (g) 06 July, (h) 08 July, 2003. Black line indicates

22 the tropopause.

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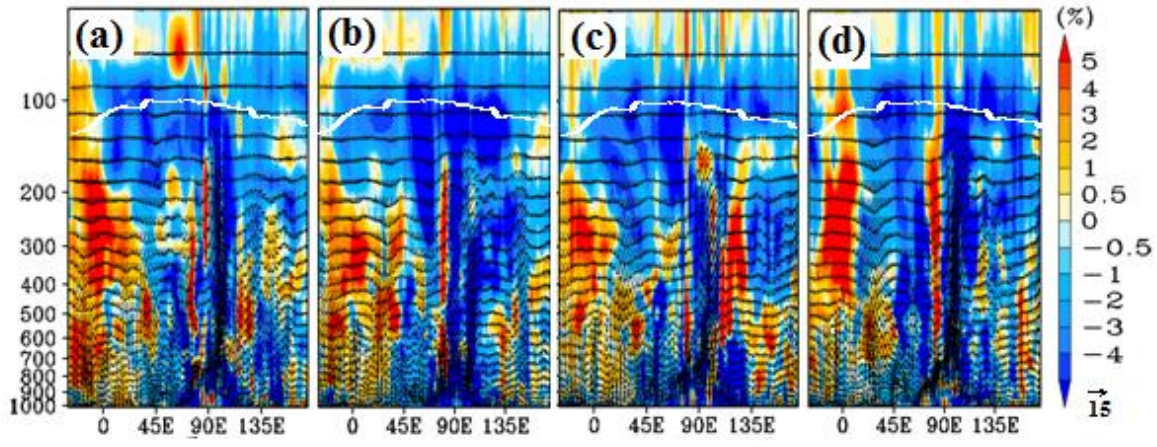
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31 **Figure S3:** Longitude-pressure distribution (averaged for 20°-40° N) of anomalies of OH (%)

32 for (a) 02 July, (b) 04 July, (c) 06 July, (d) 08 July, 2003. White thick line indicates the

33 tropopause.

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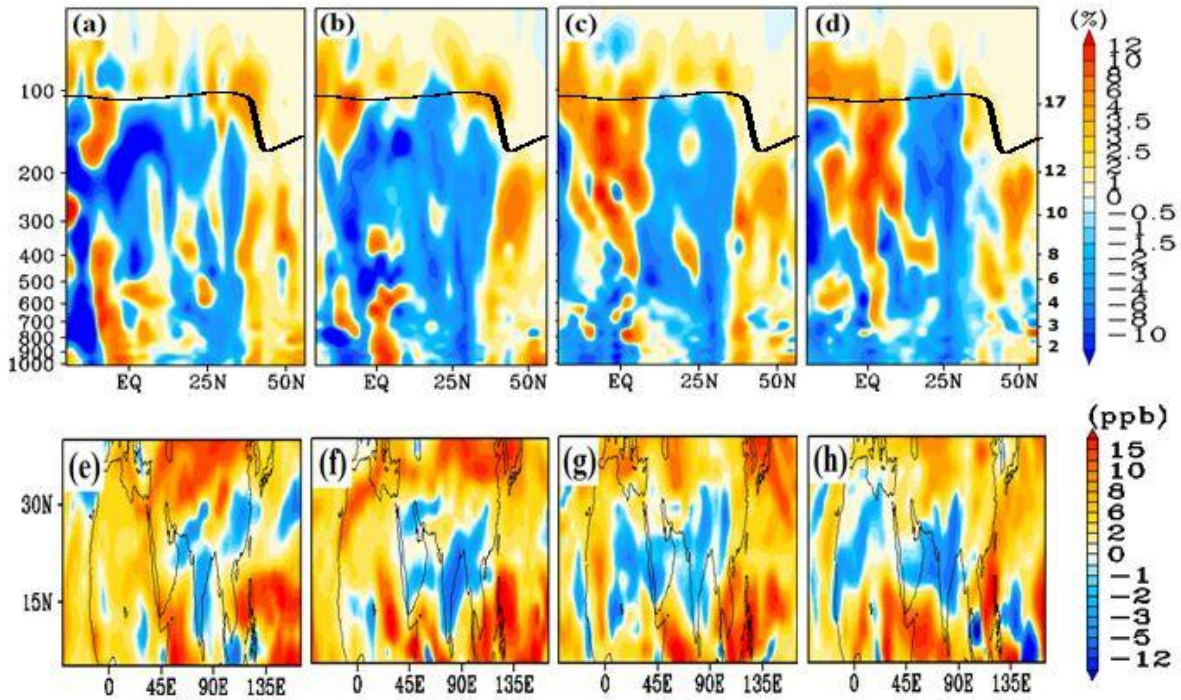
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44 **Figure S4:** Latitude-pressure section of ozone anomalies (averaged for 18-20°N) expressed

45 as % change, (a) 02 July, (b) 04 July, (c) 06 July, (d) 08 July, 2003, black line indicates the

46 tropopause, (e)-(h) same as (a)-(d) but at 100 hPa expressed in ppb.

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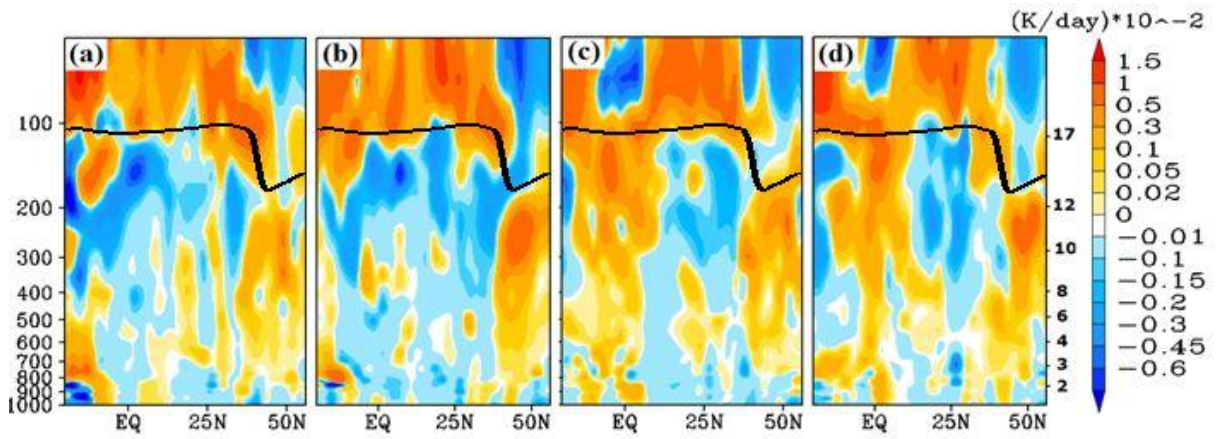
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54 **Figure S5:** Latitude-pressure distribution at 85°E of anomalies of ozone heating rates ((K·day⁻¹) × 10⁻²) for (a) 02 July, (b) 04 July, (c) 06 July, (d) 08 July, 2003. Pressure (hPa) is indicated
55 on left y-axis and altitudes (km) on right y-axis. Black line indicates the tropopause.
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