



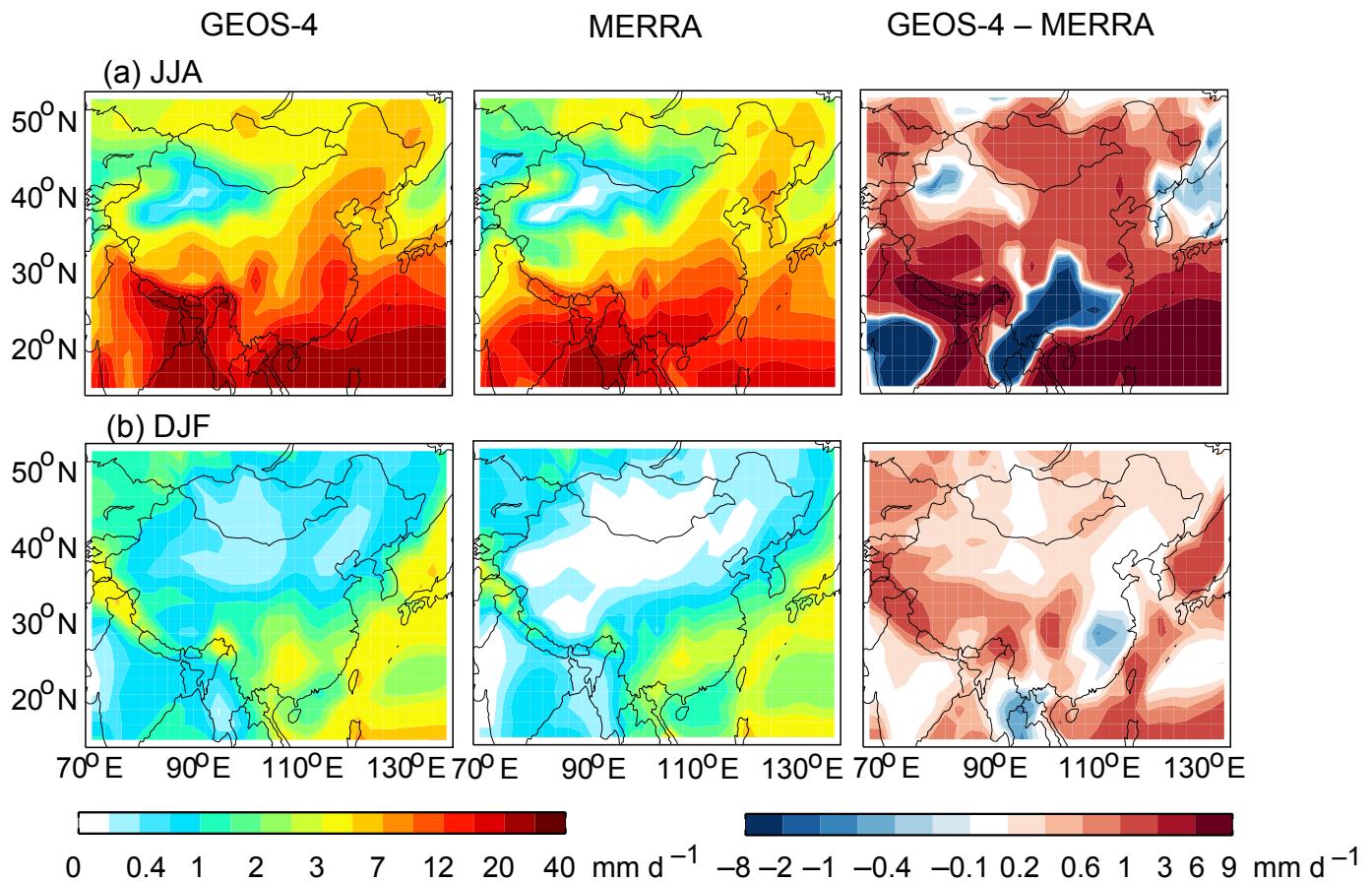
*Supplement of*

## **Impacts of East Asian summer and winter monsoons on interannual variations of mass concentrations and direct radiative forcing of black carbon over eastern China**

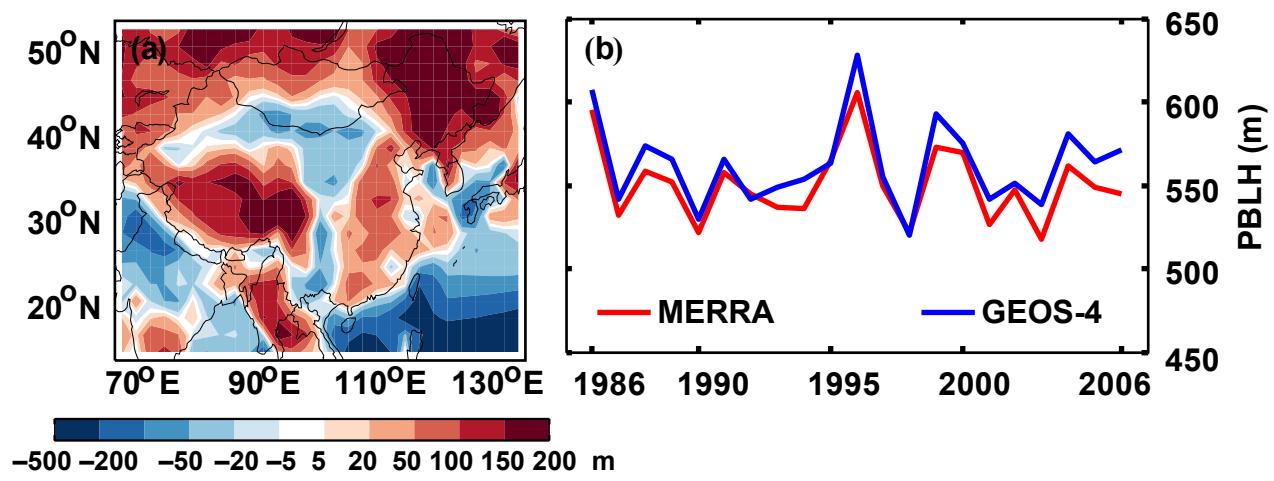
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**Fig. S1.** JJA and DJF mean precipitation ( $\text{mm d}^{-1}$ ) averaged for 1986–2006 from **(a)** GEOS-4 and **(b)** MERRA meteorological data. Also shown are **(c)** the differences between GEOS-4 and MERRA data.



**Fig. S2.** (a) Differences in DJF mean planetary boundary layer height (PBLH, m) averaged for 1986–2006 between GEOS-4 and MERRA. (b) DJF mean PBLH averaged over eastern China for 1986–2006 from GEOS-4 (blue line) and MERRA (red line).