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Direct radiative effects of dust aerosols emitted from the Tibetan Plateau on the East Asian summer monsoon – a regional climate model simulation

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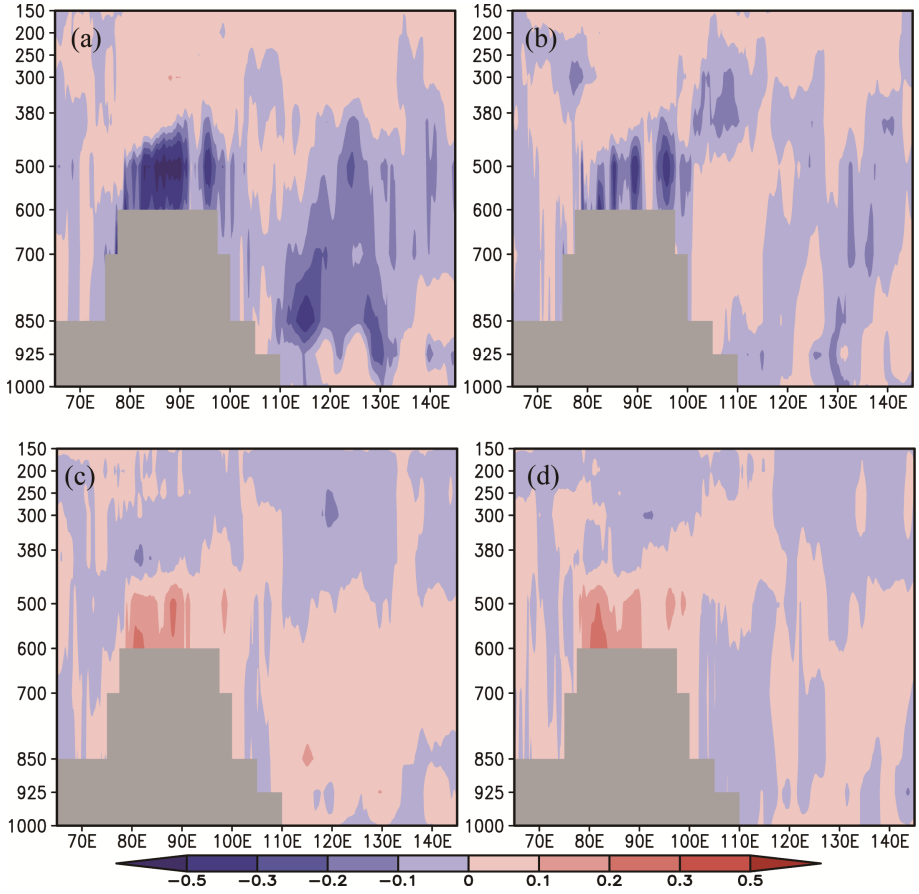

Figure S1: Longitudional cross-section of the differences between CON and SEN averaged over 32–36°N in summer. (a) and (b): long-wave cooling rate (^{o}C day^{-1}) in heavy and light dust years respectively. (c) and (d): as (a) and (b) but for short-wave heating rate (^{o}C day^{-1}) .

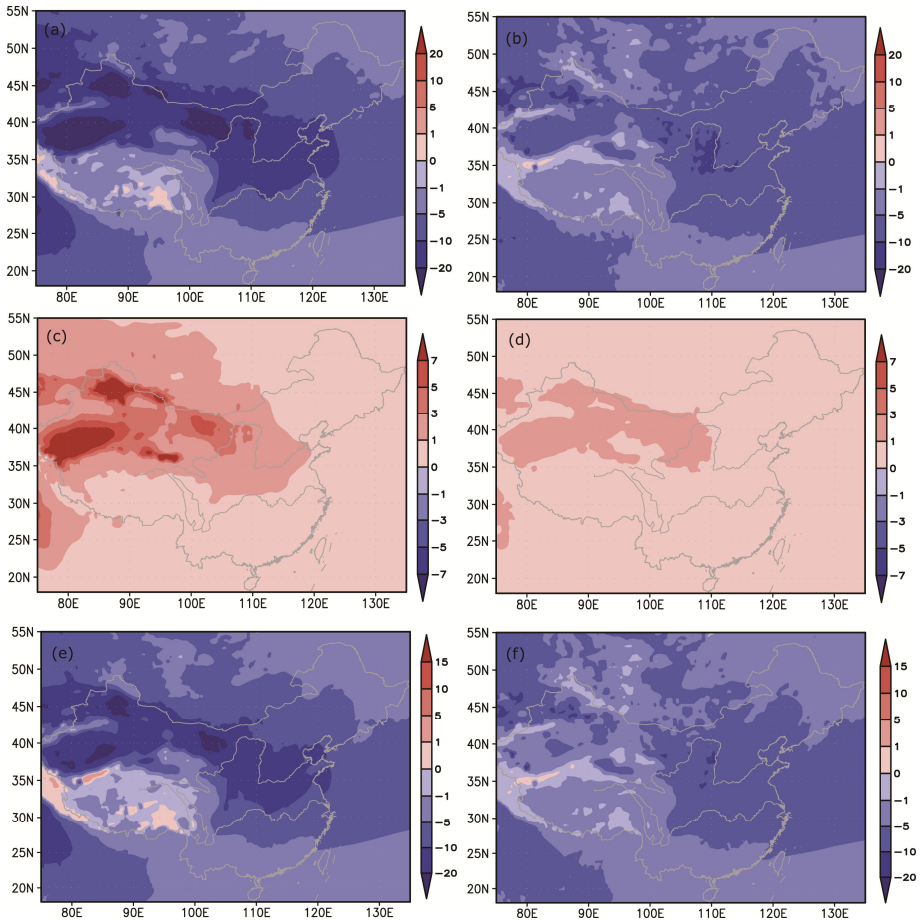

Figure S2: Simulated dust-induced clear sky (a, b) SW irradiance (W m^{-2}) and (c, d) LW irradiance (W m^{-2}) changes at surface (a and c) and TOA (b and d) averaged in spring during 2000–2009 period. (e) dust net surface radiative forcing (SW+LW), and (f) dust net TOA radiative forcing (SW+LW)