Figure S1. Spatial distributions of seasonal mean AOD difference at 550 nm from the retrievals of MODIS and MISR onboard Terra and the WRF-Chem simulation for the period of 2010–2015. The daily results from MISR, MODIS, and WRF-Chem are only sampled for averaging when all of them have valid values at the same location and time.
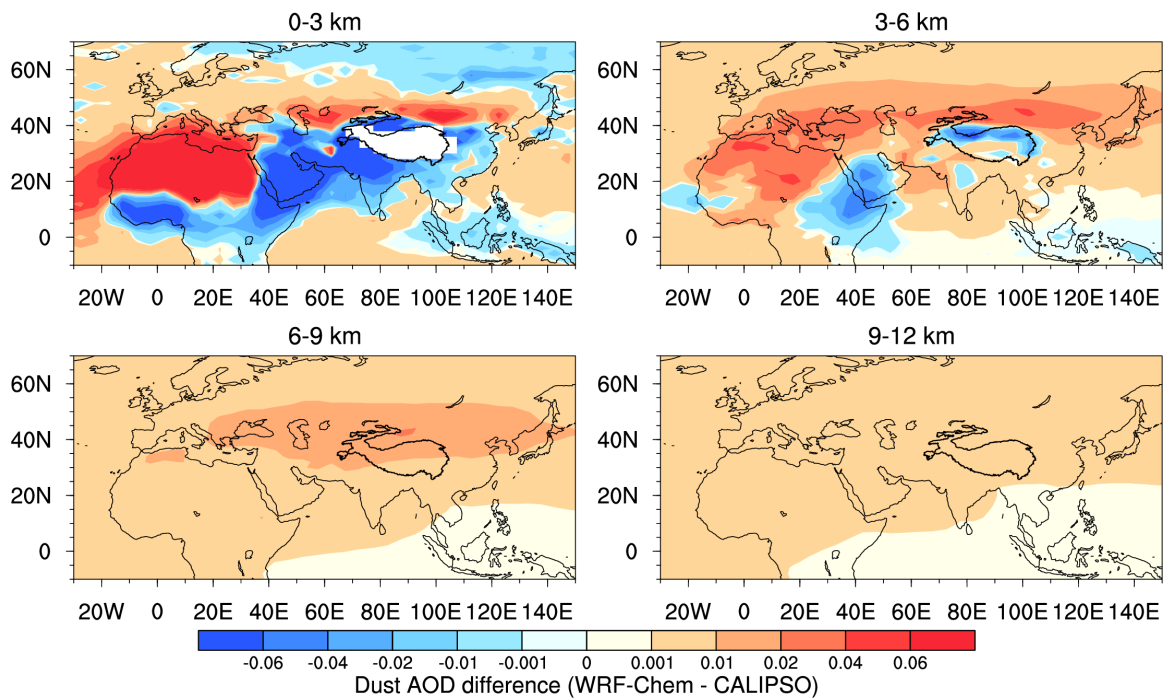
Figure S2. Spatial distributions of annual mean dust AOD difference from CALIPSO

and WRF-Chem between 0–3 km, 3–6 km, 6–9 km, and 9–12 km for the period of

2010–2015.