



Figure S4: Distribution of combined cloud droplet (CDNC) and ice crystal (ICNC) number concentrations (in mg^{-1}) averaged for the monsoon season (June-September) over (a) India (8°-35°N) and (b) China (20°-45°N) as simulated in the CTRL simulation. Black arrows indicate winds (m/s) (the vertical component has been scaled by 300), and the black line represents the tropopause. (c) Distribution of seasonal (June-September) mean combined CDNC+ICNC (in mg^{-1}) at 550 hPa as simulated in the CTRL simulation. The regions of Bay of Bengal, South China Sea, southern slopes of Himalayas and Tibetan Plateau are indicated with a cross symbol.