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Trans-Pacific transport of Asian dust and CO: Accumulation of biomass burning CO in subtropics and dipole structure of transport

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Abstract. Dust AOD at 550 nm simulated using emission scheme by Ginoux et al. (2001) and Zender et al. (2003) were presented for 5~8, 14~17, and 25~28 May 2003. Wind vectors from GEOS-4 and the NCEP reanalysis at 500 hPa and 900 hPa during 1~2 May 2003 were presented.

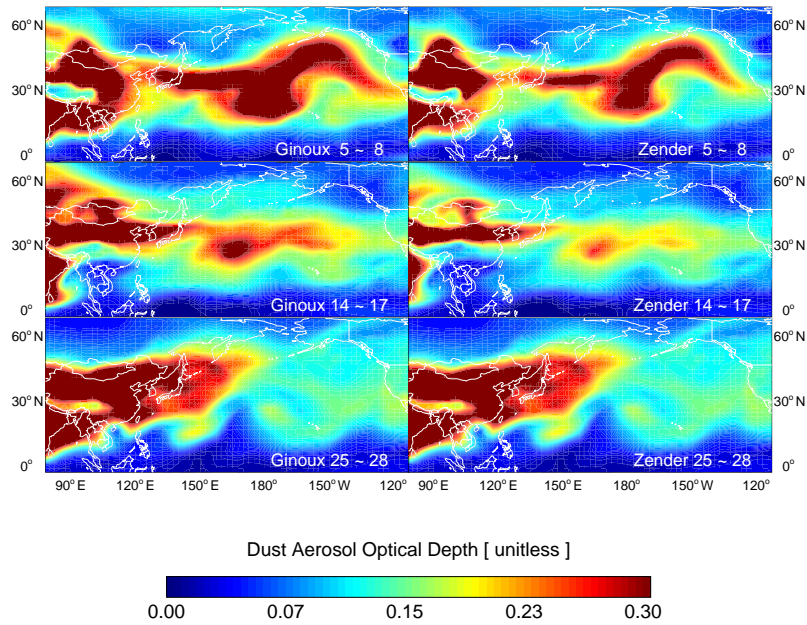


Fig. 1. AOD at 550 nm of dust simulated using emission scheme by Ginoux et al. (2001) (left) and Zender et al. (2003) (right) within GEOS-Chem over the Pacific during 5~8 (first row), 14~17 (second row), and 25~28 (third row) May 2003.

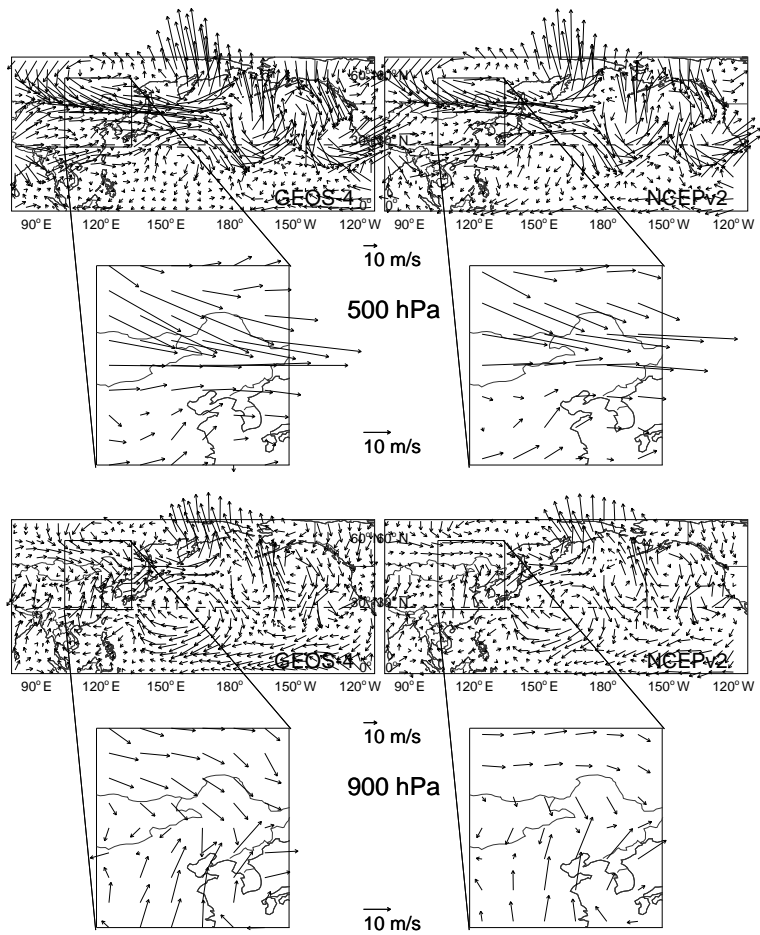


Fig. 2. GEOS-4 wind vectors (left) at 500 hPa (above) and 900 hPa (below) used in model simulations and the corresponding wind vectors from the NCEP reanalysis (right) during 1~2 May 2003.