

ESTIMATE OF RADIATIVE IMPACT OF BIOMASS BURNING AEROSOLS DURING THE PERIOD OF TRACE-P

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This study is aimed to estimate the radiative impact of biomass burning aerosols in southern Asia during the experimental period of TRANsport and Chemical Evolution over the Pacific (TRACE-P). The transport and dispersion of biomass burning aerosols was simulated using the NOAA HYSPLIT model which was driven by the MM5 meteorological outputs initialized with the ECWMF and CWB global dataset. Grid sizes of 81 and 27 km were adopted for MM5 nested simulations. A radiation transfer scheme was further used to estimate the radiative impacts of biomass burning aerosols over the southeast Asian region based on the spatial and temporal distribution of these aerosols. Modeled results were also compared with satellite data.