

## Impact of East Asian emissions on atmospheric environment investigated from aircraft observation campaigns

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In East Asia, increase of atmospheric pollutant and its global influence are predicted because of rapid expansion of industrial activities in this region. Recently, some extensive aircraft observation campaigns were conducted to investigate the impact of East Asian Emissions on the global atmospheric environment. In February-April, 2001, NASA TRACE-P experiment and NCAR ACE-ASIA experiment were carried out to investigate processes affecting the tropospheric ozone and aerosol over East Asia. In Jan 2002, NASDA PEACE-A campaign was conducted to investigate the transport of East Asian pollutants and their influence on the tropospheric ozone in wintertime. In April-May 2002, long-range transport of East Asian pollutants and their influence were investigated by NASDA PEACE-B and NOAA ITCT2K2.

These aircraft observation campaigns will be introduced briefly, and results of these campaigns including:

#Emission sources of atmospheric pollutants in East Asia

#Transport processes of atmospheric pollutant from East Asia

#Production of tropospheric ozone in the air affected by pollutants from East Asia  
will be presented.