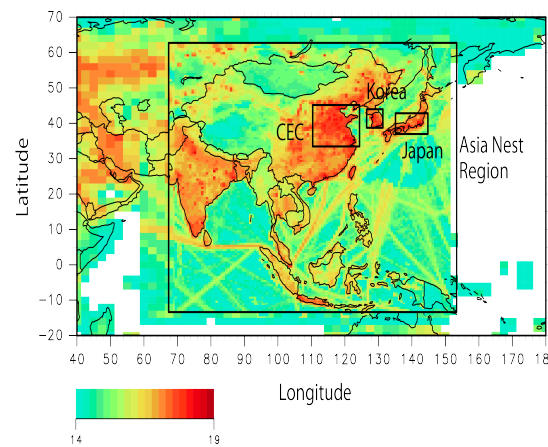
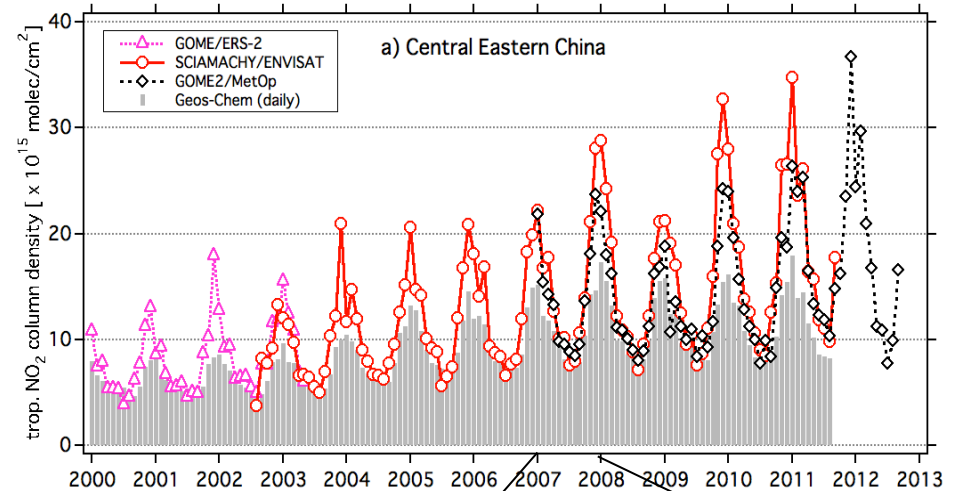


Analysis of NO_x Emission Trend over East Asia – GEOS CHEM, Satellite and REAS Emission

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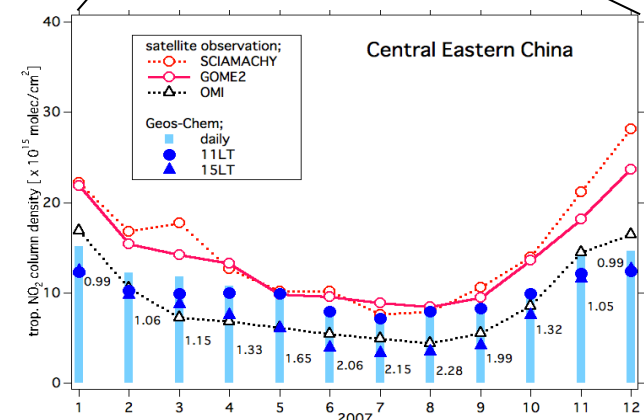
Recent anthropogenic NO_x emission trend over East Asia between the year 2000 and 2012 was analyzed based on the GEOS Chem Ver (9-1-1), tropospheric NO₂ vertical column density (VCD) from four environment monitoring satellites and latest REAS Ver 2.1 emission inventory (Kurokawa et al., 2013 ACPD)

GEOS Chem simulation by REAS inventory well reproduced the satellite observation trend. We also discussed the recent NO_x emission increasing rate and N budget over the China (CEC).



NO_x Emission (log; molec/cm²)

Model grid and REAS NO_x Emission Map



Detailed comparison for the year 2007