

Simulated seasonal and interannual variations of CO₂ in East Asia over 2004-2012

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How the interannual variation of terrestrial CO₂ flux would influence the atmospheric CO₂ concentration?

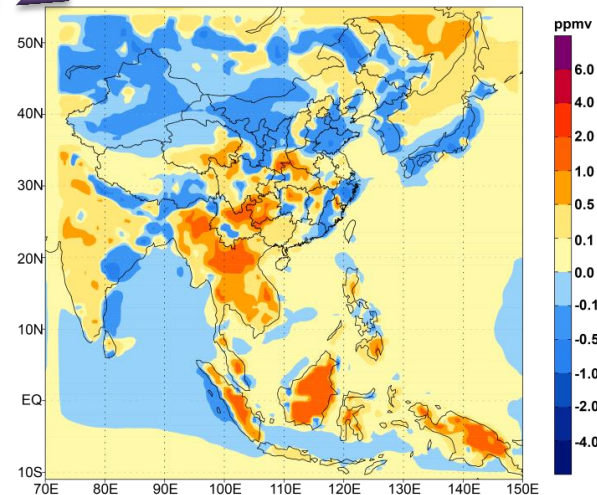
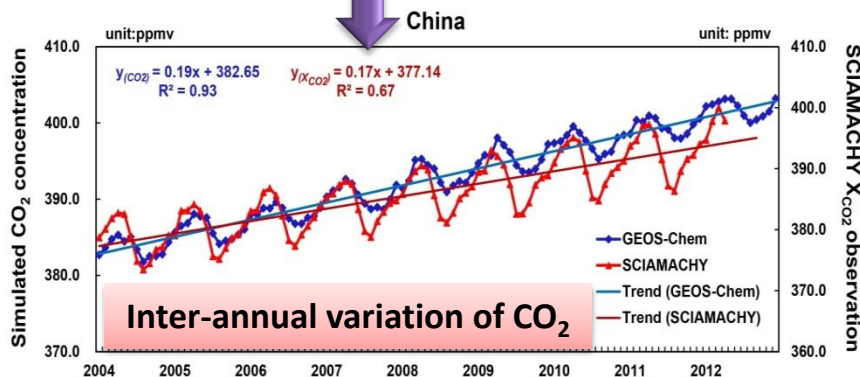
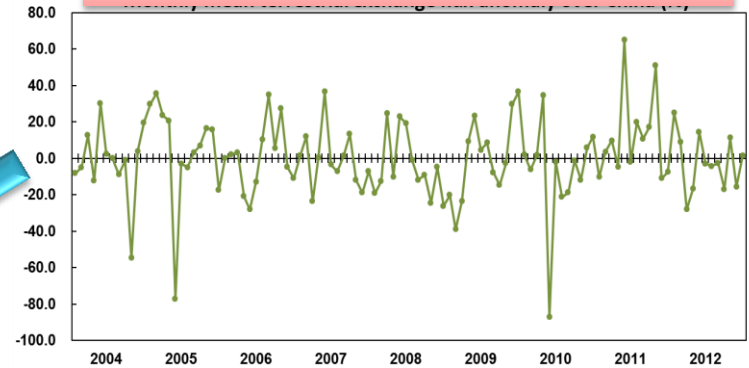
GEOS-Chem (v9-01-03)

- Nested CH (0.5x0.667)
- GEOS-5 meteorology field(2004-2012)

Terrestrial CO₂ flux

- Obtained from **CarbonTracker** (CT2013) (1x1; 3-hourly).
- *CarbonTracker is a CO₂ modeling system to keep track of sources and sinks which is developed by NOAA.*

Monthly terrestrial flux anomaly (%)



Differences in annual mean CO₂ concentration as a result of interannual variation in terrestrial flux