

Interactive
Comment

***Interactive comment on* “The effects of recent control policies on trends in emissions of anthropogenic atmospheric pollutants and CO₂ in China” by Y. Zhao et al.**

Anonymous Referee #1

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This manuscript presented a comprehensive picture of emissions in China during 2005–2010, which is of great interests to the community. The paper is well organized and written. I therefore support publication after addressing the following comments:

When compiling this inventory, some of most recent advances in emission factors were omitted. I understand that emissions presented in this paper were estimated even earlier, but it is still helpful to put the work into the context of recent literatures, e.g., on-road emission factors measured by Tsinghua’s group (published in Atmos. Environ. and Atmos. Chem. Phys. recently), residential emission factors from Tao Shu’s group (in Environ. Sci. Tech.), etc.

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Background pixels should be rejected when comparing anthropogenic emissions with satellite data, because emissions from natural sources didn't grow as much as anthropogenic emissions. I believe this can explain part of discrepancy in SW and NW, where background pixels are dominant.

P24991, refer to Huo et al., Energy Policy, 39, 7130-7135; 43, 6-16; 43, 30-36; for updated method and data.

P25008, given the fact of high uncertainties in current SCIA SO₂ data, discussions here are mainly speculative and should be shortened.

P25003, line 10, a reference to ground measurement data would be helpful.

P25007, line 7, should refer to Boersma et al., Atmos. Meas. Tech., 4, 1905-1928, 2011 for DOMINO v.2.

Acknowledgement: TEMIS should be also acknowledged for free use of their data.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 24985, 2012.

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