

## ***Interactive comment on “Temporal trends of anthropogenic SO<sub>2</sub> emitted by non-ferrous metal smelters in Peru and Russia estimated from Satellite observations” by M. F. Khokhar et al.***

### **Anonymous Referee #1**

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The third major comment was truncated in the original review. Here is the full paragraph:

3) The main new information in this paper is the temporal evolution of the SO<sub>2</sub> emissions from the three smelters as derived from GOME data. Considering the large scatter in Fig. 3 and 5, the question is how significant the trends derived are. For this, estimates of the uncertainties for the individual weekly and 10 day averages of SO<sub>2</sub> columns are needed which can then be used to investigate the significance of the trends derived. So far, the manuscript contains only a few numbers on uncertainties, and these are not explained at all. I'm also surprised by the magnitude of the estimates

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for the uncertainties of the emissions (between 7% and 18%) which appears to be very optimistic given the uncertainty in the atmospheric life time of SO<sub>2</sub>, the broad assumptions made in the AMF calculation and the small signal of SO<sub>2</sub> over the smelters. A more detailed error discussion is needed to make the numbers derived in this study useful.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 17393, 2008.

**ACPD**

8, S8191–S8192, 2008

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