

Interactive  
Comment

# ***Interactive comment on “Emissions of air pollutants and greenhouse gases over Asian regions during 2000–2008: Regional Emission inventory in ASia (REAS) version 2” by J. Kurokawa et al.***

**Anonymous Referee #2**

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General Comments Emission inventories are of prime importance for air pollution dispersion modeling and health risk studies. The changing climate and significant impact on health risks demand for emission estimation at local, regional and global scales. This paper by Kurokawa et al. deals with the regional emission inventory of air pollutants and Green House Gases (GHGs) in Asia during 2000 to 2008. Also, this paper provides a free dataset which can be useful to scientific community working in the areas related to atmospheric chemistry and physics. Accordingly, this paper fits well within the scope of this journal.

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The assumptions herein are quite valid and methodology is clearly explained. Authors have clearly mentioned the changes in REAS version 1 to version 2 with proper reasoning and justification. The abstract of this paper provides a concise and complete summary and conclusions are also appropriate. All in all, the paper is well planned, organized and the language is also fluent and precise which supports the acceptance of this paper.

#### Specific Comments

**Emission factors:** The specific comment of importance is related to emission factors used in this study. The authors have used activity data and emission factors from recent publications and based on them they have revised REAS version 1 to version 2. As local and precise emission factors are scarce in Asian region, it is suggested to provide a table listing values of emission factors, which can be an authentic source for researchers working in this area.

#### Technical Corrections

Emission factors summarized in tabulated form will add value to the paper.

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Interactive comment on Atmos. Chem. Phys. Discuss., 13, 10049, 2013.

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