

Response to the Comments of Editor

Revealing the sulfur dioxide emission reductions in China by assimilating surface observations in WRF-Chem

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We would like to thank to the editor for giving constructive criticisms, which are very helpful in improving the quality of the manuscript. We have made minor revision based on the critical comments and suggestions of the editor. The editor's comments are reproduced (black) along with our replies (blue) and changes made to the text (red) in the revised manuscript. All the authors have read the revised manuscript and agreed with submission in its revised form.

Comments to the Author:

1. *Line 436, "This demonstrates" should be "It demonstrates". Some corrections are needed for some other similar sentences.*

Response: Done.

Changes in Manuscript: Please refer to the revised manuscript, Lines 58, 334, 347, and 441.

2. *Line 444, "in all sites" should be "at all sites".*

Response: Agree.

Changes in Manuscript: Please refer to the revised manuscript, Line 449.

3. *Line 457, this is grammar error in "are assumed constant".*

Response: Agree. We have corrected it.

Changes in Manuscript: Please refer to the revised manuscript, Lines 461-462.