

### **Scientific comments by the editor**

1) l. 145/6: Please clarify what you mean by 'Diurnal variation of wind speed was also unclear ...' . Do you mean 'Diurnal wind speed was variable in winter'?

2) l. 224: Was the pH reported in the NCIES acid rain report indeed given with two digits after the comma? Or was it rather just a pH of 6?

3) l. 267: Instead of saying 'we discuss.... later' please refer to the respective Section

4) l. 374/5 (last sentence of Section 3): Please add a reference for this, unless it is a conclusion from your current study (?).

5) Data availability: See the guidelines on data availability

[https://www.atmospheric-chemistry-and-physics.net/about/data\\_policy.html](https://www.atmospheric-chemistry-and-physics.net/about/data_policy.html)

All data need to be made available according to the EGU data policy. This is of highest importance in particular in Measurement Reports, because their focus is on the reported data as they include a less thorough analysis and synthesis as required in regular Research Articles. Thus, a statement 'upon request from the author' is not sufficient.

6) Figures: Label all figures panels with a, b, c etc and expand the figure captions that all panels are described separately, e.g.

*Figure 2 a) Temperature (left axis) and relative humidity (right axis); b) Wind speed, rain rate and wind direction; c) NH<sub>3</sub> and NO<sub>2</sub> mixing ratios*

### **Technical comments:**

- throughout the manuscript: replace NH<sub>x</sub> by NH<sub>x</sub>

- l. 39: 'the major precursor' replace by 'a major precursor'

- l. 87: 'air pollution concentration' should be 'concentration of air pollutants' or 'air pollution levels'

- l. 113: has NH<sub>4</sub><sup>+</sup>(p) be defined ? ( I assume (p) refers to 'particulate?')

l. 171/2: do you mean 'during rush hour between 7 and 9 am'?

- l. 198: replace 'evidence related to' by 'trend with '

- l. 177 and l. 209: ' a mirror of' sounds awkward; it can be simply replaced by 'due to'

- l. 221: replace 'similar' by 'similarly'

- l. 225: 'with' can be removed

- l. 257: add 'ppb' after 2.8

l. 346: replace 'chickens' by 'chicken' (singular and plural forms are identical)

l. 60: replace 'converted as' by 'converted to'