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Comment

## ***Interactive comment on “Spatial and temporal variations in ammonia emissions – a freely accessible model code for Europe” by C. A. Skjøth et al.***

**C. A. Skjøth et al.**

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Dear Editor and reviewer 1 and reviewer 2

Concerning the article “Spatial and temporal variations in ammonia emissions – a freely accessible model code for Europe” under review for publication in ACP

In general we are very pleased with the positive review from both reviewers and we would to thank the referees for suggesting improvements to the manuscript.

Due to the suggestions from the reviewers we have suggested extra background material into the discussion of the results about what has been done in other countries

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concerning temporal ammonia emission modelling.

This concerns temporal resolution of ammonia in the UK (Hellsten et al., 2008), model results with the FRAME and EMEPUK model including spatial and temporal variations of the emissions in the United Kingdom (Singles et al., 1998; Vieno et al., 2010a) and Poland (Kryza et al., 2011) and methods for handling ammonia emissions in the Netherlands on either national scale or specific landscape experiments (e.g. van Pul et al., 2008).

Additionally we have added more information to the statistics according the suggestions by reviewer 2.

For this, we have attached a specific document that address all questions and suggestions that have been raised by the reviewers

On behalf of all co-authors Carsten Ambelas Skjøth

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/11/C2488/2011/acpd-11-C2488-2011-supplement.pdf>

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 2123, 2011.

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