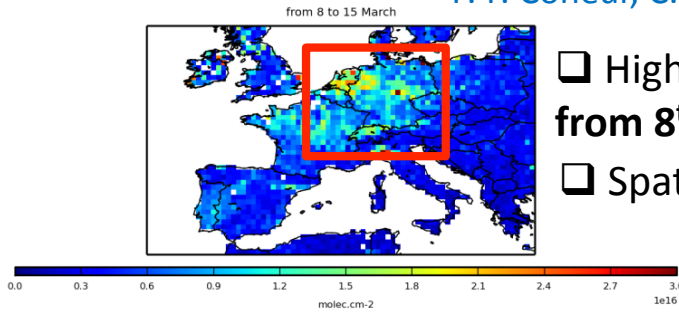


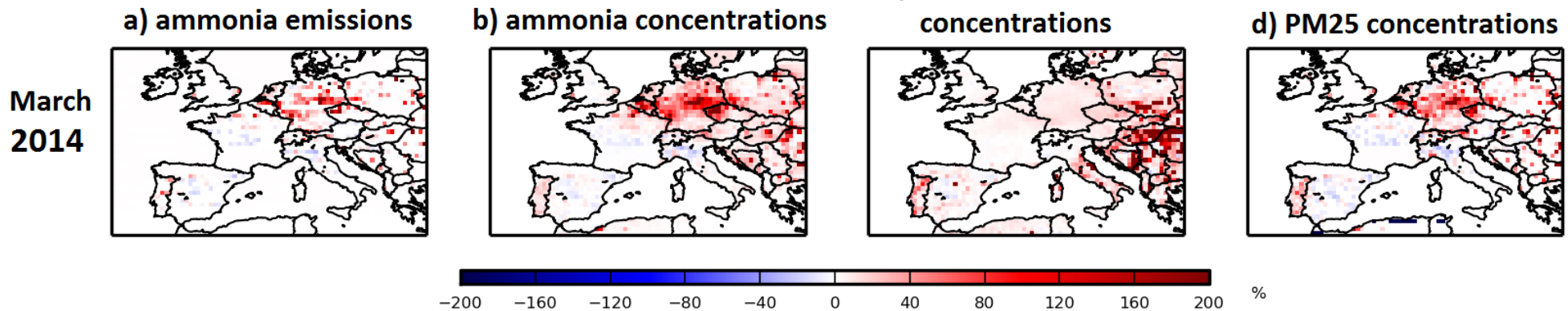
Unaccounted variability in NH₃ agricultural sources detected by IASI Contributing to European spring haze episode

A. Fortems-Cheiney, G. Dufour, L. Hamaoui-Laguel, G. Foret, G. Siour, M. Van Damme, F. Meleux, P.-F. Coheur, C. Clerbaux, L. Clarisse, M. Wallasch, and M. Beekmann

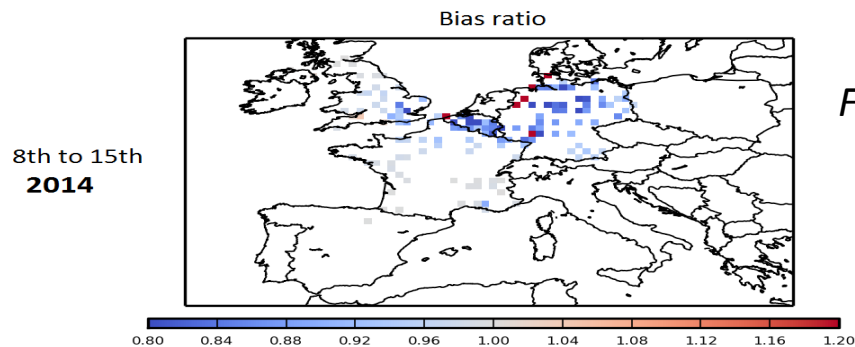


- ❑ High IASI NH₃ total columns during spring haze episode from 8th to 15th March 2014
- ❑ Spatial distribution + day-to-day variability = NH₃ due to spreading practices
- ❑ Methodology: linear relationships between CHIMERE simulated total columns and EMEP reference emissions -> application to IASI total columns -> new “NH₃-SAT” emissions

Relative difference between NH₃-SAT and EMEP



- ❑ Impact on PM₂₅ concentrations, leading to a better comparison with AirBase PM₂₅ measurements



Fortems-Cheiney et al., GRL, 2016