Short comments: Dr. M. Van Damme

We are grateful to Dr. M. Van Damme for his time and energy in providing helpful comments and

guidance that have improved the manuscript. Detailed responses to the comments are given below (in

blue).

This manuscript presents time-series of NH<sub>3</sub> total columns from the IASI satellite instrument. As the

authors point out, the retrieved columns for this trace gas are strongly dependent on the meteorological

information that is used as input data in the retrieval algorithm (in particular the surface temperature

and the temperature profile in the lowest layers of the atmosphere). At present, the publically available

IASI-NH<sub>3</sub> product uses the meteorological parameters as provided in EUMETSAT IASI Level 2 data.

The IASI Level 2 data is processed in real time, and there have been several updates to the algorithm

since the launch of IASI. We can confirm that in particular, the change from version 5 to version 6 of

the EUMETSAT Level 2 data on 30 September 2014 (and not November as stated in the manuscript),

causes on average a substantial increase of the retrieved atmospheric NH3 columns. Hence the

conclusions of the authors regarding NH3 trends should be taken with great care.

We thank M. Van Damme for pointing out the incorrect description in the manuscript, and have

corrected it by changing "November 2014" to "September 2014".