

Rev#1: I thank the authors for their thorough review of the manuscript during the first round. Well done. The manuscript is now suitable for publication, pending a very minor revision. I kindly request that the term "concentration" be replaced with "mixing ratio" for NH₃ throughout the text, as the latter is more scientifically appropriate in this context.

We respectfully prefer to retain the distinction between mixing ratio and concentration throughout the manuscript. The photoacoustic analyzer directly measures NH₃ mixing ratios (ppb), which are consistently referred to as mixing ratios in the instrumentation section. However, for the aerodynamic gradient flux calculations, the measured mixing ratios were converted to concentrations (nmol/m³) using the measured air temperature and pressure, because the flux equations are formulated in terms of concentration gradients. Therefore, the use of the term concentration in the flux calculation section is intentional and physically correct. To avoid ambiguity, we have verified that the terminology is used consistently throughout the manuscript. The manuscript consistently uses "mixing ratio" when referring to the direct instrument output and "concentration" only after conversion for flux calculations.