



Biosphere-atmosphere exchange of inorganic nitrogen compounds - influence on atmospheric chemistry and climate forcing

K. Pilegaard

Biosystems Department, Risø National Laboratory, Denmark (kim.pilegaard@risoe.dk)

This contribution gives an overview of the topics of session BG1.04. The aim of the session is to provide a comprehensive overview of the scales of fluxes of reactive nitrogen compounds between the atmosphere and the biosphere and their role as reactive gases. These inorganic compounds include reduced forms of N (e.g. NH_3 and NH_4^+) and oxidised forms of N (e.g. NO , NO_2 , HNO_3 , N_2O and NO_3^-). These compounds can be biologically active, photochemically active and radiatively active. The main emphasis should be on results of recent field campaigns and novel model considerations. The session will include presentation on recent European-wide projects as well as presentations from outside Europe (e.g. North America and Asia).