

Soil-Atmosphere Exchange of N_2O and NO in Near-Natural Savanna and Agricultural Land in Burkina Faso (W. Africa)

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ABSTRACT

In a combined field and laboratory study in the southwest of Burkina Faso, we quantified soil-atmosphere N_2O and NO exchange. N_2O emissions were measured during two field campaigns throughout the growing seasons 2005 and 2006 at five different experimental sites, that is, a natural savanna site and four agricultural sites planted with sorghum ($n = 2$), cotton and peanut. The agricultural fields were not irrigated and not fertilized. Although N_2O exchange mostly fluctuated between -2 and $8 \mu\text{g N}_2\text{O-N m}^{-2} \text{h}^{-1}$, peak N_2O emissions of 10 – $35 \mu\text{g N}_2\text{O-N m}^{-2} \text{h}^{-1}$ during the second half of June 2005, and up to $150 \mu\text{g N}_2\text{O-N m}^{-2} \text{h}^{-1}$ at the onset of the rainy season 2006, were observed at the native savanna site, whereas the effect of the first rain event on N_2O emissions at the crop sites was low or even not detectable. Additionally, a fertilizer experiment was conducted at a sorghum field that was divided into three plots receiving different amounts of N fertilizer (plot A: 140 kg N ha^{-1} ; plot B: $52.5 \text{ kg N ha}^{-1}$; plot C: control). During the first 3 weeks after fertilization, only a minor increase in N_2O emissions at the two

fertilized plots was detected. After 24 days, however, N_2O emission rates increased exponentially at plot A up to a mean of $80 \mu\text{g N}_2\text{O-N m}^{-2} \text{h}^{-1}$, whereas daily mean values at plot B reached only $19 \mu\text{g N}_2\text{O-N m}^{-2} \text{h}^{-1}$, whereas N_2O flux rates at plot C remained unchanged. The calculated annual N_2O emission of the nature reserve site amounted to $0.52 \text{ kg N}_2\text{O-N ha}^{-1} \text{a}^{-1}$ in 2005 and to $0.67 \text{ kg N}_2\text{O-N ha}^{-1} \text{a}^{-1}$ in 2006, whereas the calculated average annual N_2O release of the crop sites was only $0.19 \text{ kg N}_2\text{O-N ha}^{-1} \text{a}^{-1}$ and $0.20 \text{ kg N}_2\text{O-N ha}^{-1} \text{a}^{-1}$ in 2005 and 2006, respectively. In a laboratory study, potential N_2O and NO formation under different soil moisture regimes were determined. Single wetting of dry soil to medium soil water content with subsequent drying caused the highest increase in N_2O and NO emissions with maximum fluxes occurring 1 day after wetting. The stimulating effect lasted for 3–4 days. A weaker stimulation of N_2O and NO fluxes was detected during daily wetting of soil to medium water content, whereas no significant stimulating effect of single or daily wetting to high soil water content ($>67\% \text{ WHC}_{\text{max}}$) was observed. This study demonstrates that the impact of land-use change in West African savanna on N trace gas emissions is smaller—with the caveat that there could have

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Agricultural Ecology Of Savanna A Study Of West Africa

Michael Mortimore



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African Indigenous Knowledge and the Disciplines Gloria Emeagwali, George J Sefa Dei, 2014-11-26 This text explores the multidisciplinary context of African Indigenous Knowledge Systems from scholars and scholar activists committed to the interrogation production articulation dissemination and general development of endogenous and indigenous modes of intellectual activity and praxis The work reinforces the demand for the decolonization of the academy and makes the case for a paradigmatic shift in content subject matter and curriculum in institutions in Africa and elsewhere with a view to challenging and rejecting disinformation and intellectual servitude Indigenous intellectual discourses related to diverse disciplines take center stage in this volume with a focus on education mathematics medicine chemistry and engineering in their historical and contemporary context *The Peasant Cotton Revolution in West Africa* Thomas J. Bassett, 2006-03-30 The literature of Africa is dominated by accounts of crisis and gloom But Thomas Bassett a distinguished American geographer well known in the field of development tells an unusual story of the growth of the cotton economy of West Africa One of the few long running success stories in African development change was brought about by tens of thousands of small scale peasant farmers While the introduction of new strains of cotton in French West Africa was in part a result of agronomic research by French scientists supported by an unusually efficient marketing structure this is not a case of triumphant top down planification Employing the case of C te d Ivoire Professor Bassett shows agricultural intensification to result from the cumulative effect of decades of incremental changes in farming techniques and social organization A significant contribution to the literature the book demonstrates the need to consider the local and temporal dimensions of agricultural innovations It brings into question many key assumptions that have influenced development policies during the twentieth century **Moist Savannas of Africa** B. T. Kang, 1995 Climatology of West Africa Derek F Hayward, Julius Oguntoyinbo, 2019-10-28 Originally published in 1987 this book brings together information previously buried in specialist sources and makes it available to the student in a non technical and well illustrated synthesis It builds a clear and detailed picture of the climates of West Africa describing and explaining them and showing how crucial this understanding is to

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emerging challenges of globalization and climate change **The Ecosystem Approach** Gill Shepherd, 2008 Commission on Ecosystem Management Cover **Working the Sahel** W.M. Adams, M.J. Mortimore, 2005-08-08 Drawing on four years of field research the authors look at how farmers manage biological resources crop and non crop biodiversity soil fertility and transform the landscape through agricultural intensification *Indigenous Agricultural Revolution* Paul Richards, 2023-07-26 Originally published in 1985 this book argues forcefully and practically for new relationship between science and the small farmer It advocates scientific research seeking out changes which are already taking place within the smallholder farming sector and building on local initiatives Drawing on his experience of West Africa the author demonstrates that many of the most successful innovations in food crop production during the 20th century have indigenous roots and that there should therefore be less emphasis on teaching farmers how to farm and more emphasis on how to foster and support local adaptation and inventiveness This book will be of interest to students of agriculture environmental studies and rural development as well as those working with relief and development agencies

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