

Methane Emissions from Major Rice Ecosystems in Asia

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Konrad Soyez, Hartmut Graßl



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Methane Emissions from Major Rice Ecosystems in Asia Heinz-Ulrich Neue,Reiner Wassmann,Rhoda S. Lantin,2000 Rice production is affected by changing climate conditions and has the dual role of contributing to global warming through emissions of the greenhouse gas methane Climate change has been recognized as a major threat to the global environment Because of insufficient field data rice growing countries face a problem when trying to comply with the United Nations Framework Convention on Climate Change stipulations to compile a national inventory of emissions and to explore mitigation options Given the expected doubling in rice production in Asia the need to evaluate the interaction between climate change and rice production is critical to forming a sound basis for future directions of technology developments by policy makers agriculturists environmentalists rice producers and rice consumers The present book comprises two sections The first part documents a comprehensive overview of the results achieved from an interregional research effort to quantify methane emission from major rice ecosystems and to identify efficient mitigation options This research report broadens understanding of the contribution of rice cultivation to methane emissions and clarifies that emissions are relatively low except in specific rice ecosystems and that these high emissions could be ameliorated without sacrificing yield The second section shows results from other projects that investigated the role of rice cultivators in field and laboratory approaches The findings represent inputs for future modeling approaches in the role of rice cultivators The expanded database generated by other projects is reflected in modeling efforts

Methane Emissions from Major Rice Ecosystems in Asia Reiner Wassmann,Rhoda S. Lantin,Heinz-Ulrich Neue,2012-12-06 Rice production is affected by changing climate conditions and has the dual role of contributing to global warming through emissions of the greenhouse gas methane Climate change has been recognized as a major threat to the global environment Because of insufficient field data rice growing countries face a problem when trying to comply with the United Nations Framework Convention on Climate Change stipulations to compile a national inventory of emissions and to explore mitigation options Given the expected doubling in rice production in Asia the need to evaluate the interaction between climate change and rice production is critical to forming a sound basis for future directions of technology developments by policy makers agriculturists environmentalists rice producers and rice consumers The present book comprises two sections The first part documents a comprehensive overview of the results achieved from an interregional research effort to quantify methane emission from major rice ecosystems and to identify efficient mitigation options This research report broadens understanding of the contribution of rice cultivation to methane emissions and clarifies that emissions are relatively low except in specific rice ecosystems and that these high emissions could be ameliorated without sacrificing yield The second section shows results from other projects that investigated the role of rice cultivators in field and laboratory approaches The findings represent inputs for future modeling approaches in the role of rice cultivators The expanded database generated by other projects is reflected in modeling efforts

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emissions from PA. ,2001-03-22 **Cutting Edge Technologies for Developing Future Crop Plants** Anita

Mann,Naresh Kumar,Ashwani Kumar,Priyanka Chandra,Satish Kumar Sanwal,Parvender Sheoran,2025-03-26 This edited volume compiles recent advancements in techniques and technologies for sustainable crop production focusing on innovative approaches to mitigate the adverse effects of environmental stress on crop productivity The book offers a comprehensive overview of advanced physiological molecular agronomic microbial and breeding strategies designed to improve crop performance under stress conditions It emphasizes high throughput phenotyping and genotyping technologies facilitating precise breeding for the development of climate resilient crop varieties The increasing impacts of climate change and global warming are now widely recognized as major threats to global food security exacerbated by the depletion of natural resources essential for agricultural activities With the world population projected to reach 10 billion by 2050 the scientific community is tasked with finding critical solutions to meet the growing demand for food Addressing these challenges requires interdisciplinary approaches that integrate plant and soil systems focusing on the development of sustainable climate smart agricultural practices This volume explores technological interventions for managing degraded soils and water resources optimizing nutrient management leveraging microbial diversity and employing nanobiotechnology for crop improvement It also addresses the economics of agricultural investment providing insights into the cost effectiveness and sustainability of adopting climate smart practices The book offers a detailed analysis of the physiological biochemical and molecular mechanisms underlying plant responses to environmental stress helping readers understand how plants adapt to adverse conditions It also presents practical strategies for developing multi stress tolerant climate resilient crops making it an invaluable resource for researchers students and professionals in agriculture plant physiology biochemistry forestry agronomy soil science and environmental sciences **Advances in Agronomy** ,2007-05-09 Advances in Agronomy

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Properties and Management of Soils in the Tropics Pedro A. Sanchez,2019-01-10 The long awaited second edition of this classic textbook expands on the first edition to include advances made in the last four decades bringing the topic completely up to date The book addresses critical issues such as whether humanity can feed itself and whether it can do so in environmentally sound and sustainable ways Written from agronomic environmental and ecological standpoints the textbook employs a multidisciplinary approach including policymaking and plant genetic improvements as well as ecosystem services climate change biodiversity sustainability and resilience New chapters in this second edition focus on organic carbon in soil

soil biology soils in relation to livestock production and forestry and agroforestry The new edition will again be the go to textbook for courses on tropical soils and a reference textbook for soil and agricultural scientists and development professionals working in the tropics Climate Change Mitigation and Agriculture Eva Wollenberg, Marja-Liisa Tapio-Bistrom, Maryanne Grieg-Gran, Alison Nihart, 2013-03-01 This book reviews the state of agricultural climate change mitigation globally with a focus on identifying the feasibility opportunities and challenges for achieving mitigation among smallholder farmers The purpose is ultimately to accelerate efforts towards mitigating land based climate change While much attention has been focused on forestry for its reputed cost effectiveness the agricultural sector contributes about ten to twelve per cent of emissions and has a large technical and economic potential for reducing greenhouse gases The book does not dwell on the science of emissions reduction as this is well covered elsewhere rather it focuses on the design and practical implementation of mitigation activities through changing farming systems Climate Change Mitigation and Agriculture includes chapters about experiences in developed countries such as Canada and Australia where these efforts also have lessons for mitigation options for smallholders in poorer nations as well as industrialising countries such as Brazil and China A wide range of agroecological zones and of aspects or types of farming including livestock crops fish farming fertilizer use and agroforestry as well as economics and finance is included The volume presents a synthesis of current knowledge and research activities on this emerging subject Together the chapters capture an exciting period in the development of land based climate change mitigation as attention is increasingly focused on agriculture s role in contributing to climate change

Climate Change and Technological Options Konrad Soye, Hartmut Graßl, 2009-02-23 An up to date text on climate change focussing on technical solutions for the most important and climate relevant economic sectors is presented It is intended for key decision makers and administrators within industry agricultural and energy sectors as well as masters students and post graduates The first of three sections covers the scientific basis of climate change and the instruments to prevent or reduce negative climate effects It includes a survey covering current practices at different levels The second discusses evaluation methods for climate impacts from industrial processes Climate relevant processes and measures to reduce their impact such as sequestration are defined in the final section with the main focus being on renewable resources Details are given on climate impacts of waste prevention recycling and waste management as well as are proposals for every day solutions **Encyclopedia of Soil Science** Ward Chesworth, 2007-11-22 The Encyclopedia of Soil Science provides a comprehensive alphabetical treatment of basic soil science in a single volume It constitutes a wide ranging and authoritative collection of some 160 academic articles covering the salient aspects of soil physics chemistry biology fertility technology genesis morphology classification and geomorphology With increased usage of soil for world food production building materials and waste repositories demand has grown for a better global understanding of soil and its processes longer articles by leading authorities from around the world are supplemented by some 430 definitions of common terms in soil sciences

Restoration of Wetland Ecosystem: A Trajectory Towards a Sustainable Environment Atul Kumar Upadhyay, Ranjan Singh, D. P. Singh, 2019-06-29 The risks and consequences of environmental change are increasing leading to massive losses in terms of ecosystems and having a huge impact on human populations As such global thinkers environmentalists scientists and policy makers are focusing on finding solutions and ways to sustain life on Earth Anthropogenic impacts on the climate system can only be mitigated by the restoration of existing natural resources and the sustainable development of the environment and society This book discusses the potential of green technology in waste management wetland restoration presenting the latest developments in the field of bioenergy green ecology bioremediation and microbial management Wetlands are one of Earth s most important ecosystems and they provide valuable services to human societies such as minimizing the impacts of floods acting as a carbon sink and offering water purification as well as recreational opportunities Wetlands may be natural or constructed and the effectiveness of wetland services largely depends on the diversity of macrophytes affecting the algal production plant biomass and nutrient status of the system In addition they are one of the richest microbial ecosystems on earth the rhizosphere soil and water interface enhances wetland services with implications ranging from phytoremediation to microbial bioprospection However in order to function properly they need to be effectively redesigned reengineered protected and maintained The book addresses the dynamic relation between three global concerns environmental pollution resource exploitation and sustainability It describes the utilization of resources like wastes municipal industrial agricultural mine drainage tannery solid and e waste plants algae and microbes for production of renewable biofuel biofertilizers and other value added products to achieve the goal of sustainable development The book also discusses the current and future trends in employing wetlands in improving water quality In addition it presents the latest international research in the fields of wetland science waste management carbon sequestration and bioremediation Highlighting a broad spectrum of topics and strategies for achieving a sustainable environment the book offers researchers students and academics insights into utilizing resources in a sustainable way

The Biogeochemistry of Submerged Soils Guy

Kirk, 2004-06-25 Submerged soils and the wetlands they support are of huge practical importance in global element cycles as centres of biodiversity in global food production They are also uniquely interesting scientifically because of their peculiar biogeochemistry and the adaptations of plants and microbes to it This book describes the physical chemical and biological processes operating in submerged soils and governing their properties It describes the transport processes controlling the fluxes of gases and solutes through the soil the interchange of solutes between solid liquid and gas phases reduction and oxidation processes biological processes in the soil and overlying water and processes in the roots and rhizospheres of wetland plants The dynamics of nutrients toxins pollutants and trace gases are then discussed in terms of these processes and in relation to wetland productivity and global element cycles Written by a renowned expert in the field this work will be invaluable to earth environmental and agricultural scientists concerned with natural or man made wetlands and to advanced

undergraduate and graduate students of these topics **Sustainability of Rice in the Global Food System** Noreen G. Dowling, Stanley Marshall Greenfield, K. S. Fischer, International Rice Research Institute, 1998 **Fragile Lives in Fragile Ecosystems** International Rice Research Institute, 1995 Fragile lives in fragile ecosystems Feeding the world's poor from neglected rice ecosystems was the theme of the 1995 International Rice Research Conference During the February meeting participants assessed progress in rice research and identified new research approaches for reducing constraints and improving productivity and sustainability of less favored and fragile rice producing areas these are the upland rainfed lowland and flood prone ecosystems **Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1992: Environmental Protection Agency** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1991 *Sustainable Irrigation and Drainage IV* Henning Bjornlund, 2012 Wessex Institute of Technology's Sustainable Irrigation 2012 Conference held at University of South Australia in Adelaide Preface Report from the START Regional Meeting for Southeast Asia, 1992

Soil Science: Fundamentals to Recent Advances Amitava Rakshit, S.K Singh, P.C. Abhilash, Asim Biswas, 2021-07-30 This compilation has been designed to provide a comprehensive source of theoretical and practical update for scientists working in the broad field of soil science The book explores all possible mechanisms and means to improve nutrient use efficiencies involving developing and testing of nanofertilizers developing consortia based microbial formulations for mobilization of soil nutrients and engineering of nutrient efficient crops using molecular biology and biotechnological tools This is an all inclusive collection of information about soil science This book is of interest to teachers researchers soil scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of soil science quantitative ecology earth sciences GIS and geodetic sciences as well as geologists geomorphologists hydrologists and landscape ecology National and international agriculture and soil scientists policy makers will also find this to be a useful read **Cereal Grains** Aakash K. Goyal, 2021-12-22 Over the past 50 years cereals such as maize rice wheat sorghum and barley have emerged as rapidly evolving crops because of new technologies and advances in agronomy breeding biotechnology genetics and so on Population growth and climate change have led to new challenges among which are feeding the growing global population and mitigating adverse effects on the environment One way to deal with these issues is through sustainable cereal production This book discusses ways to achieve sustainable production of cereals via agronomy breeding transcriptomics proteomics and metabolomics Chapters review research examine challenges and present prospects in the field This volume is an excellent resource for students researchers and scientists interested and working in the area of sustainable crop production *Tropical Agriculture in Transition — Opportunities for Mitigating Greenhouse Gas Emissions?* Reiner Wassmann, Paul L.G. Vlek, 2013-04-17 Production from tropical agricultural systems will need to increase to satisfy the rising food demand of an increasing population coupled with changes in consumption patterns At the same time

the agricultural sector is a significant source of greenhouse gases GHG in many developing countries which can be attributed mainly to land use change and methane emissions from rice and livestock But how can we reconcile less GHG emissions from tropical agricultural systems while increasing productivity Due to the interactive nature of these issues this book is compiled of articles on natural resource management as well as the socio economic aspects of GHG mitigation The scope of mitigation options in tropical agriculture is discussed for three different activities a agroforestry b rice based production systems c pasture animal husbandry Agronomic solutions alone will not be sufficient as the institutional and economic frameworks within which farmers operate dictate whether a recommended agronomic management practice is acceptable The prevention of deforestation and the re forestation of degraded land could become key elements to national climate protection programs of some developing countries Alternative management practices in rice based and pasture systems may offer win win options to reduce emissions and improve resource use efficiencies

Embracing the Song of Phrase: An Emotional Symphony within **Methane Emissions From Major Rice Ecosystems In Asia**

In a global taken by screens and the ceaseless chatter of fast communication, the melodic splendor and mental symphony created by the written word frequently disappear in to the back ground, eclipsed by the relentless sound and distractions that permeate our lives. But, situated within the pages of **Methane Emissions From Major Rice Ecosystems In Asia** a wonderful literary treasure full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that charming masterpiece conducts readers on a mental journey, well unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths of this touching assessment, we shall explore the book is key harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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