

Biomass Burning And Global Change Vol 2 Biomass Burning In The Tropical And Temperate Ecosystems

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Biomass Burning and Global Change assesses the impact of biomass burning as a driver for global change. The two volumes bring together the most recent results of a massive climatic research project in over 80 contributions by more than 200 scientists representing a dozen different countries.

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Greenhouse gases may lead to an increased warming of the Earth or human-initiated global climate change. Studies suggest that biomass burning has increased on a global scale over the last 100 years, and computer calculations indicate that a hotter Earth resulting from global warming will lead to more frequent and larger fires.

~~Biomass Burning - NASA~~

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His findings indicate that burning biomass is playing a much bigger role in climate change and human health issues than previously thought. "We calculate that 5 to 10 percent of worldwide air pollution mortalities are due to biomass burning," he said. "That means that it causes the premature deaths of about 250,000 people each year."

~~Stanford study shows effects of biomass burning on climate ...~~

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This comprehensive volume is the first to consider biomass burning as a global phenomenon and to assess its impact on the atmosphere, on climate, and on the biosphere itself. The 63 chapters by 158 scientists - including leading biomass burn researchers from third-world countries, such as Brazil, Nigeria, Zaire, India, and China, where biomass burning is so prevalent - point to biomass burning as a significant driver of global change on our planet.

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Biomass burning profoundly affects atmospheric chemistry, the carbon cycle, and climate and may have done so for millions of years. Bringing together renowned experts from paleoecology, fire ecology, atmospheric chemistry, and organic chemistry, the volume elucidates the role of fire during global changes of the past and future. Topics covered include: the characterization of combustion products that occur in sediments, including char, soot/fly ash, and polycyclic aromatic hydrocarbons; the calibration of these constituents against atmospheric measurements from wildland and prescribed fire emissions; spatial and temporal patterns in combustion emissions at scales of individual burns to the globe.

Global Biomass Burning provides a convenient and current reference on such topics as the remote sensing of biomass burning from space, the geographical distribution of burning; the combustion products of burning in tropical, temperate, and boreal ecosystems; burning as a global source of atmospheric gases and particulates; the impact of biomass burning gases and particulates on global climate; and the role of biomass burning on biodiversity and past global extinctions."--Pub. desc.

JOHN L. INNES University of British Columbia, Vancouver, Canada The interactions between biomass burning and climate have been brought into focus by a number of recent events. Firstly, the Framework Convention on Climate Change and, more recently, the Kyoto Protocol, have drawn the attention of policy makers and others to the importance of biomass burning in relation to atmospheric carbon dioxide concentrations. Secondly, the use of prescribed fires has become a major management tool in some countries; with for example the area with fuel treatments (which include prescribed burns and mechanical treatments) having increased on US National Forest System lands from 123,000 ha in 1985 to 677,000 ha in 1998. Thirdly, large numbers of forest fires in Indonesia, Brazil, Australia and elsewhere in 1997 and 1998 received unprecedented media attention. Consequently, it is appropriate that one of the Wengen Workshops on Global Change Research be devoted to the relationships between biomass burning and climate. This volume includes many of the papers presented at the workshop, but is also intended to act as a contribution to the state of knowledge on the int- relationships between biomass burning and climate change. Previous volumes on biomass burning (e. g. Goldammer 1990, Levine 1991a, Crutzen and Goldammer 1993, Levine 1996a, 1996b, Van Wilgen et al. 1997) have stressed various aspects of the biomass-climate issue, and provide a history of the development of our understanding of the many complex relationships that are involved.

Volume 1 of a two volume set, this book is a self-contained, state-of-the-art analysis of remote sensing, ground-based, and spatial techniques used for characterizing biomass burning events and pollution. It is a collective achievement of renowned scientists working throughout South and Southeast Asia. They discuss the complexity of vegetation patterns, biomass characteristics, fire distribution, drivers of fires, and several examples of the use of novel satellite algorithms for mapping and monitoring biomass burning events. The book is highly interdisciplinary and integrates earth science and environmental science including ecology, fire science, spatial geography, remote sensing, and geospatial technologies. Unique in its discussion of the sources and the causes of biomass burning and atmospheric research in South and Southeast Asia. Explains how remote sensing and geospatial technologies help the mapping and monitoring of biomass burning events and their impacts. Focuses on large spatial scales integrating top-down and bottom-up methodologies. Addresses the pressing issues of environmental pollution that are rampant in South and Southeast Asia. Includes contributions from global experts actually working on biomass burning projects in the US, Japan, South/Southeast Asia, and Europe. This book will serve as a valuable source of information for remote sensing scientists, geographers, ecologists, atmospheric scientists, environmental scientists, and all who wish to advance their knowledge on fires and biomass burning in South/Southeast Asia.

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This comprehensive volume is the first to consider biomass burning as a global phenomenon and to assess its impact on the atmosphere, on climate, and on the biosphere itself.

A discussion of the direct and indirect mechanisms by which fire and climate interact to influence carbon cycling in North American boreal forests. The first section summarizes the information needed to understand and manage fires' effects on the ecology of boreal forests and its influence on global climate change issues. Following chapters discuss in detail the role of fire in the ecology of boreal forests, present data sets on fire and the distribution of carbon, and treat the use of satellite imagery in monitoring these regions as well as approaches to modeling the relevant processes.

Biomass burning is one of the most important sources of greenhouse gas emissions and aerosols in South and Southeast Asia and greatly impacts other countries through transboundary air pollution. With contributions from leading scientists, this volume offers an interdisciplinary perspective on the impacts of biomass burning on the land resources, climate, and the atmosphere. It showcases several examples linking top-down remote sensing, bottom-up ground-based measurements, and an integrated modeling to address the impacts of biomass burning and land-atmosphere interactions. It is a valuable guide for readers in atmospheric science, ecology, spatial geography, remote sensing, and GIS. This book is unique as it highlights the sources and the causes of biomass burning and atmospheric research in South and Southeast Asia. It explains the latest tools and techniques, in particular the use of satellite remote sensing and geospatial technologies for fire mapping, monitoring, and land cover/land use change. It focuses on large spatial scales integrating top-down and bottom-up methodologies. It addresses the pressing issues of air pollution rampant in South and Southeast Asia. It includes contributions from global experts working on biomass burning projects in the USA, Japan, South/Southeast Asia, and Europe. The contents of this book will appeal to students and professionals using remote sensing and geospatial techniques, including geographers, ecologists, atmospheric and environmental scientists, and all who are interested in biomass burning pollution.

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