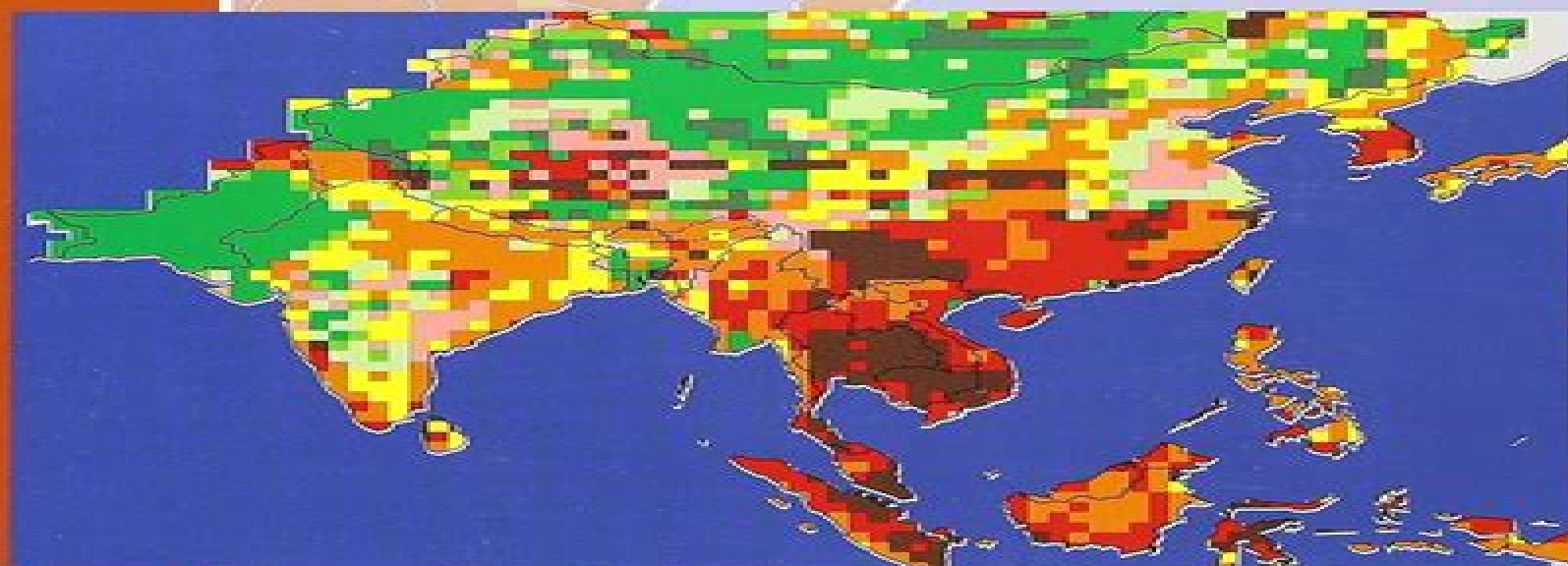


DIRECTIONS IN DEVELOPMENT

# RAINS-ASIA

An Assessment Model for Acid  
Deposition in Asia

ROBERT J. DOWNING  
RAMESH RAMANKUTTY  
JITENDRA J. SHAH



# Rains Asia An Assessment Model For Acid Deposition In Asia

**Chinese Academy of Sciences, Chinese Academy of Engineering, National Academy of Engineering, National Research Council, Policy and Global Affairs, Development, Security, and Cooperation**

## **Rains Asia An Assessment Model For Acid Deposition In Asia:**

Rains-Asia Robert J. Downing, Ramesh Ramankutty, Jitendra J. Shah, 1997-01-01 Asia's rapid economic growth has fueled a growing appetite for commercial energy which is satisfied by fossil fuels that emit pollutants. These pollutants are oxidized and transported into the atmosphere creating acidic depositions known as acid rain that can damage foliage, soils, and surface waters. At current energy consumption growth rates by the year 2000, sulfur dioxide emissions from Asia will surpass the emissions of North America and Europe combined. RAINS ASIA is an assessment tool developed by the World Bank, the Asian Development Bank, and donors to study the implications of alternative energy development strategies for air pollution and acid rain and to help identify cost-effective abatement methods. This report provides an overview of the model and some results of analyses that have been conducted as part of the RAINS ASIA program.

Acid Rain - Deposition to Recovery Peter Brimblecombe, Hiroshi Hara, Daniel Houle, Martin Novak, 2007-12-11 This book looks at the sources and composition of the atmosphere and rainfall with particular attention on acidifying components and those that affect ecosystems. It further widens the subject to look at trace metals. It includes papers on the impact of deposition on soils and forests and the recovery of the natural environment. Work on critical loads makes a contribution to understanding the degree to which deposition must be reduced to limit its impact.

**Acid Rain Science and Politics in Japan** Kenneth E. Wilkening, 2004-05-21 Acid Rain Science and Politics in Japan is a pioneering work in environmental and Asian history as well as an in-depth analysis of the influence of science on domestic and international environmental politics. Kenneth Wilkening's study also illuminates the global struggle to create sustainable societies. The Meiji Restoration of 1868 ended Japan's era of isolation, created self-sufficiency, and sustainability. The opening of the country to Western ideas and technology not only brought pollution problems associated with industrialization, including acid rain, but also scientific techniques for understanding and combating them. Wilkening identifies three pollution-related sustainability crises in modern Japanese history: copper mining in the late nineteenth and early twentieth centuries, which spurred Japan's first acid rain research and policy initiatives; horrendous post-World War II domestic industrial pollution, which resulted in a hidden acid rain problem; and the present-day global problem of transboundary pollution in which Japan is a victim of imported acid rain. He traces the country's scientific and policy responses to these crises through six distinct periods related to acid rain problems and argues that Japan's leadership role in East Asian acid rain science and policy today can be explained in large part by the historical scientific momentum generated by efforts to confront the issue since 1868, reinforced by Japan's cultural affinity with rain, its culture of rain. Wilkening provides an overview of nature culture and the acid rain problem in Japan to complement the general set of concepts he develops to analyze the interface of science and politics in environmental policymaking. He concludes with a discussion of lessons from Japan's experience that can be applied to the creation of sustainable societies worldwide.

**Acid rain 2000** Kenichi Satake, 2012-12-06 The Acid Rain 2000 Conference in Tsukuba, Japan, held 10-16 December 2000, was the sixth such

conference in the series starting with Columbus Ohio USA in 1975 and including Sandefjord Norway in 1980 Muskoka Canada in 1985 Glasgow UK in 1990 and G teborg Sweden in 1995 This series of International Conferences on the acid rain problem has made a very important contribution to the process of summarising the state of current understanding and making this information available In the 6th Conference approximately 600 papers were presented including talks and posters About 300 peer reviewed papers from the presentation appear in this volume and will provide readers with a comprehensive review of the history and scientific aspects of the acid rain problem The papers appear in three volumes the first containing the plenary and keynote papers and the other two the remaining scientific papers Volume 1 ISBN 0 7923 7132 1 Volume 2 ISBN 0 7923 7133 X Volume 3 ISBN 0 7923 7134 8 The Conference was arranged under the joint auspices of The Science Council of Japan The Japanese Society of Limnology representative academic society Japan Association of Aerosol Science and Technology The Japan Society for Analytical Chemistry Japan Society for Atmospheric Environment Chemical Society of Japan The Ecological Society of Japan The Japanese Society of Environmental Education Society of Environmental Science Japan The Japanese Forestry Society Japanese Society of Snow and Ice Japanese Society of Soil Science and Plant Nutrition and Japan Society on Water Environment with the cooperation of Ibaraki Prefecture and Japan Environment Agency

*Urbanization, Energy, and Air Pollution in China* Chinese Academy of Sciences, Chinese Academy of Engineering, National Academy of Engineering, National Research Council, Policy and Global Affairs, Development, Security, and Cooperation, 2005-01-04 In October 2003 a group of experts met in Beijing under the auspices of the Chinese Academy of Sciences Chinese Academy of Engineering and National Academy of Engineering NAE National Research Council NRC of the National Academies to continue a dialogue and eventually chart a rational course of energy use in China This collection of papers is intended to introduce the reader to the complicated problems of urban air pollution and energy choices in China

Air Pollution Modeling and Its Application XI Sven-Erik Gryning, Francis A. Schiermeier, 2012-12-06 Proceedings of the Twenty first NATO CCMS International Technical Meeting held in Baltimore Maryland November 6 10 1995

*The Oxford Companion to Global Change* Andrew Goudie, David Cuff, 2008-11-21 The Oxford Companion to Global Change is an up to date comprehensive interdisciplinary guide to the range of issues surrounding natural and human induced changes in the Earth's environment In one convenient volume the Companion brings together current knowledge about the relations between technological social demographic economic and political factors as well as biological chemical and physical systems It is an essential reference work for students teachers researchers and other professionals seeking to understand any aspect of global change

Acid Rain in Nepal? Arnico Kumar Panday, 1998

**Greening Industrialization in Asian Transitional Economies** A. P. J. Mol, Joost C. L. van Buuren, 2003-01-01 Studying transition economies is one of the most challenging tasks faced by those who wish to understand the political social and economic changes that the world has undergone since the end of the Cold War Greening Industrialization in Asian Transitional Economies is a collection of essays

which examine environmental performance and the transition to market economies particularly in China and Vietnam A comprehensive assessment of the state of industrial environmental management this informative volume looks at the movement for cleaner production from many perspectives analyzing its historical roots its political influences its implementation and its economic and technological feasibility Readers of these excellent essays will be left with an in depth understanding of both the necessity for environmental improvements in rapidly industrializing economies and the difficulties and challenges which this goal entails An ambitious and important project Greening Industrialization in Asian Transitional Economies provides a wide ranging analysis of a vital topic *Mountains: Witnesses of Global Changes* Renato

Baudo, Gianni Tartari, Elisa Vuillermoz, 2007-08-02 From an environmental point of view mountains are particularly sensitive and important for monitoring the state of health of our planet Only through distribution of meteorological and atmospheric composition monitoring points in mountain regions coupled with modelling simulations will we be able to thoroughly analyze complex pollutant transport mechanisms and better understand imminent global changes The Himalayan Karakoram range for its elevation and geographic location represents one of the ideal places for studying long range pollutant transport systems on a regional scale and for monitoring changes index by mechanisms that act on global scale through monsoon circulation The Ev K2 CNR committee with this book reached its objective of creating a unique opportunity for dialogue between major environmental scientists and experts highlighting the close relationship between diverse themes with a common underlying thread in depth comprehension of the environmental phenomena which are determining the health of our planet **Integrated Assessment of Sustainable Energy Systems in China, The China Energy Technology**

**Program** B. Eliasson, Y. Lee, 2012-12-06 The purpose of the China Energy Technology Program CETP has been to take a holistic view of electricity generation in China with special emphasis on the economic and environmental impact of technology The program is a collaborative effort involving industry as leader and manager of the program researchers from academia and national research institutes and the stakeholders users or planners of the electricity market A power plant no matter of what kind is not a solitary unit which may be considered independently from its environment Modern society has been built on easy access to power it is now asking for environmentally clean power Clean power is the pathway that will lead to sustainability an extension of the concept of an environmentally clean future Progress toward a sustainable technical solution must include an evaluation of the environmental economic and societal impact of electrical power generation To achieve the goals of the CETP program we wanted to go beyond what had been done in similar programs in the past Its organizers wanted the program not only to evaluate the overall impact of electricity generation but also do it in such a way that program results could be applied and adapted to different circumstances including countries other than China For this purpose we have developed a methodology and presented it on a DVD disc which the reader will find inside the back cover of this book The methodology is conceived to allow insights into the function of the program on various levels Acid Rain

Carter N. Lane, 2003 Acid rain is a broad term used to describe several ways that acids fall out of the atmosphere. A more precise term is acid deposition which has two parts: wet and dry. Wet deposition refers to acidic rain, fog, and snow. As this acidic water flows over and through the ground, it affects a variety of plants and animals. The strength of the effects depends on many factors, including how acidic the water is, the chemistry and buffering capacity of the soils involved, and the types of fish, trees, and other living things that rely on the water. Dry deposition refers to acidic gases and particles. About half of the acidity in the atmosphere falls back to earth through dry deposition. The wind blows these acidic particles and gases onto buildings, cars, homes, and trees. Dry deposited gases and particles can also be washed from trees and other surfaces by rainstorms. When that happens, the runoff water adds those acids to the acid rain, making the combination more acidic than the falling rain alone. Prevailing winds blow the compounds that cause both wet and dry acid deposition across state and national borders, and sometimes over hundreds of miles. This new book combines an excellent background article with over 900 abstracts and book citations. Easy access is provided by title, author, and subject indexes. **Vital Signs 1998-1999**

Lester R. Brown, 2014-04-08 First Published in 1998. In this seventh annual edition of VITAL SIGNS, the team at the Worldwatch Institute brings together an eclectic selection of disparate trends to offer a unique, multifaceted view of our rapidly changing world. This vital resource and reference guide traces the scientific, social, economic, and environmental trends that have and continue to shape our world. Among the trends covered for the first time in VITAL SIGNS 1998-99 are frontier forests, plantation forestry, satellite launches, minerals exploration, small arms proliferation, and female education. This year's edition points out that global emissions of carbon, the leading contributor to global climate change, hit another new high, while wind power has grown an amazing 26 per cent per year, and sales of solar cells jumped a phenomenal 43 per cent in 1997. VITAL SIGNS is the most comprehensive source of environmental and social information available. **The**

**Environmental Dimension of Asian Security** In-t'aek Hyön, Miranda Alice Schreurs, 2007. Northeast Asia is a region with highly disparate levels of industrialization and political systems. It also contains some very troubling security flashpoints: the Taiwan Strait, the Korean Peninsula, and the East China Sea. China's rapacious quest for energy and rapid industrial expansion have led to intense international competition with Japan and the United States, and internal instability, as well. North Korea poses two distinct environmental security threats: famine refugees and the regime's use of nuclear blackmail for subsidized energy. Yet there is very little regional cooperation despite the need to manage disputes over energy, natural resources, and pervasive pollution. *The Environmental Dimension of Asian Security* examines these issues through a regional environmental security complex that explores the potential for greater intersubjective understandings of regional environmental and natural resource problems and greater institutional collaboration and management. Report to

Congress. National Acid Precipitation Assessment Program (U.S.), National Acid Precipitation Assessment Program

(U.S.), 1998. **Acid Rain** Karl Schneider, 1995. Japanese Progress in Climatology, 2001. *NAPAP Biennial Report to*

Congress National Acid Precipitation Assessment Program (U.S.),1999      Urbanization and Social Welfare in China Gordon G. Liu,2018-01-18 China's urban population growth rate has doubled in the past 20 years and the Chinese government has made further urbanization a developmental priority How Chinese cities cope with such rapid population increases has become a question of critical concern This book provides an analysis of the welfare implications of China's urbanization the development of the labour market including migration between rural and urban sectors and natural and social environmental issues arising from urbanization The book covers both academic and policy perspectives and together with its sister volume *Urban Transformation in China* brings together a comprehensive and multi disciplinary overview of China's urbanization

*Korea North Ecology, Nature Protection Laws and Regulation Handbook Volume 1 Strategic Information and Developments* IBP USA,2013-08 2011 Updated Reprint Updated Annually Korea North Ecology Nature Protection Laws and Regulation Handbook

The book delves into Rains Asia An Assessment Model For Acid Deposition In Asia. Rains Asia An Assessment Model For Acid Deposition In Asia is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Rains Asia An Assessment Model For Acid Deposition In Asia, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 2: Essential Elements of Rains Asia An Assessment Model For Acid Deposition In Asia
    - Chapter 3: Rains Asia An Assessment Model For Acid Deposition In Asia in Everyday Life
    - Chapter 4: Rains Asia An Assessment Model For Acid Deposition In Asia in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Rains Asia An Assessment Model For Acid Deposition In Asia. The first chapter will explore what Rains Asia An Assessment Model For Acid Deposition In Asia is, why Rains Asia An Assessment Model For Acid Deposition In Asia is vital, and how to effectively learn about Rains Asia An Assessment Model For Acid Deposition In Asia.
  3. In chapter 2, this book will delve into the foundational concepts of Rains Asia An Assessment Model For Acid Deposition In Asia. The second chapter will elucidate the essential principles that must be understood to grasp Rains Asia An Assessment Model For Acid Deposition In Asia in its entirety.
  4. In chapter 3, the author will examine the practical applications of Rains Asia An Assessment Model For Acid Deposition In Asia in daily life. This chapter will showcase real-world examples of how Rains Asia An Assessment Model For Acid Deposition In Asia can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Rains Asia An Assessment Model For Acid Deposition In Asia in specific contexts. The fourth chapter will explore how Rains Asia An Assessment Model For Acid Deposition In Asia is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Rains Asia An Assessment Model For Acid Deposition In Asia. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Rains Asia An Assessment Model For Acid Deposition In Asia.



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