

# Monsoons Over China Atmospheric And Oceanographic Sciences Library

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**Nitrogen in Soils of China** Aug 24 2019 The study of soil nitrogen has long been an active field, but it was generally pivoted on agricultural and forestry production, and animal husbandry. With the rapid increase in the use of fertilizer nitrogen, more attention has been paid to the relationship between nitrogen management and environmental quality and human of soil nitrogen has become more comprehensive with health. In addition, the study the development of related sciences. The quantitative study of the processes in nitrogen cycling and their interrelationships has been an important part of this project and has attracted the attention of scientists allover the world. Nitrogen is one of the most important nutrients for plant growth and the applica tion of fertilizer nitrogen is playing an important role in agricultural production. The annual consumption of fertilizer nitrogen in the world has reached 70 million tons, and China has an annual consumption of more than 15 million tons and is the largest fertilizer nitrogen consumer in the world. However, the efficiency of nitro gen fertilizer is low and losses are large. It is estimated that nitrogen losses from agriculture in our country can be as high as 40-60% of the nitrogen applied. Some of the lost nitrogen enters the atmosphere and contributes to the greenhouse effect and some enters water bodies to pollute the water.

**The Economics of Air Pollution in China** Feb 20 2022 Suffocating smog regularly envelops Chinese metropolises from Beijing to Shanghai, clouding the future prospect of China's growth sustainability. Air pollutants do not discriminate between the rich and the poor, the politician and the "average Joe." They put everyone's health and economic prosperity at risk, creating future costs that are difficult to calculate. Yet many people, including some in China, are concerned that addressing environmental challenges will jeopardize economic growth. In *The Economics of Air Pollution in China*, leading Chinese economist Ma Jun makes the case that the trade-off between growth and environment is not inevitable. In his ambitious proposal to tackle severe air pollution and drastically reduce the level of so-called PM 2.5 particles—microscopic pollutants that lodge deeply in lungs—Ma Jun argues that in targeting pollution, China has a real opportunity to undertake significant structural economic reforms that would support long-term growth. Rooted in rigorous analyses and evidence-based projections, Ma Jun's "big bang" proposal aims to mitigate pollution and facilitate a transition to a greener and more sustainable growth model.

**Attribution of Extreme Weather Events in the Context of Climate Change** Aug 29 2022 As climate has warmed over recent years, a new pattern of more frequent and more intense weather events has unfolded across the globe. Climate models simulate such changes in extreme events, and some of the reasons for the changes are well understood. Warming increases the likelihood of extremely hot days and nights, favors increased atmospheric moisture that may result in more frequent heavy rainfall and snowfall, and leads to evaporation that can exacerbate droughts. Even with evidence of these broad trends, scientists cautioned in the past that individual weather events couldn't be attributed to climate change. Now, with advances in understanding the climate science behind extreme events and the science of extreme event attribution, such blanket statements may not be accurate. The relatively young science of extreme event attribution seeks to tease out the influence of human-cause climate change from other factors, such as natural sources of variability like El Niño±o, as contributors to individual extreme events. Event attribution can answer questions about how much climate change influenced the probability or intensity of a specific type of weather event. As event attribution capabilities improve, they could help inform choices about assessing and managing risk, and in guiding climate adaptation strategies. This report examines the current state of science of extreme weather attribution, and identifies ways to move the science forward to improve attribution capabilities.

**Weather and Productivity Growth in China's Grain Production** Jun 22 2019

**China's Air Pollution Problems** Nov 07 2020 China s rapid industrialisation has led to "an air pollution catastrophe." Concerted efforts to achieve economic growth have led to veiled skies of toxic air and created health and morbidity problems as well as tremendous environmental degradation. "China s Air Pollution Problems" provides an overview of air pollution in China describing how and why China has ended up in such a dire situation, what the government is doing to address the problem and the difficulties it is encountering in attempting to reduce the pollution. The analysis is based on both grey literature (newspaper articles, NGO reports, Chinese government information) and on academic studies. The grey literature gives a voice to those who suffer from the pollution, their advocates, and government officers, and allows the reader to better grasp the conditions on the ground, and the impact of air pollution among people in different areas in China. The academic literature adds a theoretical perspective and brings these different case studies into a broader context. This book will be of great interest to students of environmental pollution and contemporary Chinese studies looking for an introduction to the topic and also for researchers looking for an extensive list of sources and analysis of China's environmental problems."

**Endogenous Enforcement and Effectiveness of China's Pollution Levy System** Dec 09 2020 The authors investigate two aspects of China's pollution levy system, which was first implemented about 20 years ago. First, they analyze what determines differences in enforcement of the pollution levy in various urban areas. They find that collection of the otherwise uniform pollution levy is sensitive to differences in economic development and environmental quality. Air and water pollution levies are higher in areas that are heavily polluted. Second, they analyze the impact of pollution charges on industry's environmental performance, in terms of the pollution intensity of process production and the degree of end-of-pipe

abatement for both water pollution and air pollution. Econometric analysis shows that plants respond strongly to the levy by either abating air pollution in the production process or providing end-of-pipe treatment for water pollution.

Environmental Policy and Air Pollution in China Jul 16 2021 This book analyses China's approach to tackling air pollution over the past two decades. It will be of great interest to students and scholars of Chinese environmental policy and governance, air pollution, climate change and sustainable development, as well as practitioners and policymakers working in these fields.

Governing the Urban in China and India Aug 17 2021 What is urban about urban China and India? -- Land grabs and protests from Wukan to Singur -- Urban redevelopment in Guangzhou and Mumbai -- Airpocalypse in Beijing and Delhi -- Territorial and associational politics in historical perspective.

**Environmental Policy and Air Pollution in China** Jul 28 2022 This book systematically analyzes how and why China has expectedly lost and then surprisingly gained ground in the quest to solve the complicated environmental problem of air pollution over the past two decades. Yuan Xu shines a light on how China's sulfur dioxide emissions rose quickly in tandem with rapid economic growth but then dropped to a level not seen for at least four decades. Despite this favorable mitigation outcome, Xu details how this stemmed from a litany of policy stumbles within the Chinese context of no democracy and a lack of sound rule of law. Throughout this book, the author examines China's environmental governance and strategy and how they shape environmental policy. The chapters weave together a goal-centered governance model that China has adopted of centralized goal setting, decentralized goal attainment, decentralized policy making and implementation. Xu concludes that this model provides compelling evidence that China's worst environmental years reside in the past. This book will be of great interest to students and scholars of Chinese environmental policy and governance, air pollution, climate change and sustainable development, as well as practitioners and policy makers working in these fields. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/9780429452154>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

**Air Pollution, Climate, and Health** Jun 14 2021 Air Pollution, Climate and Health integrates the current understanding of the issues of air pollution, climate change and human health. The book provides a comprehensive overview of these issues to help readers gain a better understanding of how they interact and impact air quality and public health. Regional examples from across the globe include issues related to PM 2.5, haze, winter pollution, heat related mortality and aerosols. These issues are addressed utilizing current research and laboratory-based, observation-based, and modeling-based analysis. This is an essential resource for all professionals investigating the impacts of climate change or air pollution on human health. Provides a comprehensive understanding of the interactions between climate change, air quality and human health Includes evidence-based findings to help clarify the mechanisms on how air pollution impacts climate and how a changing climate is impacting those pollutants Covers a number of pollution sources and products impacting climate change, including energy, haze, particulate matter, aerosols, PM 2.5 and transport

Wen Bon Oct 26 2019 During the Second World War Byron Winborn was part of a covert military operation in an area of southeastern China overrun and nominally controlled by Japanese forces. As a Naval lieutenant attached to the Fourteenth Army Air Force, he and his colleagues in a Technical Air Intelligence unit scavenged behind the lines for wreckage from downed enemy aircraft, seeking valuable technical information which they reported back to their superiors in Washington. Winborn's memoir of these experiences is rendered in an informal and understated conversational style including near encounters with Japanese troops, confrontations with Chinese bandits and semi-comic negotiations with the local populace, along with thoughtful observations about the contrasting attitudes and life styles between the culture in which he found himself and that from which he had come. At the end of hostilities, "Wen Bon" as his Chinese associates addressed him, was ordered to Shanghai, where he and other veterans of southeastern China contributed their unconventional "can-do" talents to expediting traffic in a Naval Air Priorities Office, for a hectic finale to his singular tour of exotic duty.

Regional Climate Studies of China Mar 24 2022 Regional Climate of China is the first volume to present the latest research findings gained over the last decade which has greatly advanced our knowledge of the regional climate researches in China. A distinctive feature of the volume is that it is based on an integration of researches by using the advanced technologies, such as field observation and experiment, satellite information and numerical models in the regional climate studies.

**Chinese Journal of Atmospheric Sciences** Oct 19 2021

**Ambient Air Pollution and Health Impact in China** Nov 27 2019 This book focuses on the health impacts of air pollution in China, especially the epidemiology-based exposure-response functions for the mortality, morbidity, and hospital admissions for respiratory diseases, cardiovascular diseases, lung cancer, and mental health related to pollution. It also provides the latest estimates of the magnitude of the adverse effects of air pollution on the health of the Chinese population. By providing a better understanding of the impact of air pollution on health, it improves the scientific basis of risk assessment, and also helps governments develop policies and other health protection initiatives to reduce the impacts of air pollution. The book offers environmental scientists, engineers, researchers and students a comprehensive and organized body of information in the area of air pollution.

Air Cargo in Mainland China and Hong Kong Mar 31 2020 Air traffic and the aviation industry have grown rapidly on the Chinese mainland in the two and a half decades since China's open door policy. Accession to the WTO will further stimulate trade and foreign direct investment (FDI), intensifying the demand for air cargo services. It will also open up the Chinese economy to foreign participation in the transportation and logistics sectors, making these sectors more competitive and efficient. This book provides a systematic and comprehensive study of China's air cargo industry as well as its policy evolution. It covers the sources and destinations of air cargo in mainland China and Hong Kong: whence it comes and where it goes to. The major hubs of the transportation network - Beijing, Shanghai, Hong Kong, and Guangzhou - are discussed one by one. The virtual aspects of the network at these hubs in terms of IT applications, preparedness, and needs are examined and compared. Though the subject matter of this book is air cargo, there is considerable coverage of the aviation industry and policy on the mainland and Hong Kong. Changes have been happening so fast there are few books and publications that cover them systematically and comprehensively. Readership includes business executives in airfreight companies, airports and airlines, logistics specialists, aviation university lecturers and students.

**Effects of Controlled Atmosphere Storage and Modified Atmosphere Packaging on Chinese Mustard** Feb 29 2020

**China's Air Pollution Problems** Jun 26 2022 China's rapid industrialisation has led to "an air pollution catastrophe". Concerted efforts to achieve economic growth have led to veiled skies of toxic air and created health and morbidity problems as well as tremendous environmental degradation. China's Air Pollution Problems provides an overview of air pollution in China describing how and why China has ended up in such a dire situation, what the government is doing to address the problem and the difficulties it is encountering in attempting to reduce the pollution. The analysis is based on both grey literature (newspaper articles, NGO reports, Chinese government information) and on academic studies. The grey literature gives a voice to those who suffer from the pollution, their advocates, and government officers, and allows the reader to better grasp the conditions on the ground, and the impact of air pollution among people in different areas in China. The academic literature adds a theoretical perspective and brings these different case studies into a broader context. This book will be of great interest to students of environmental pollution and contemporary Chinese studies looking for an introduction to the topic and also for researchers looking for an extensive list of sources and analysis of China's environmental problems.

Continent in Dust Dec 29 2019 In China, the weather has changed. Decades of reform have been shadowed by a changing meteorological normal: seasonal dust storms and spectacular episodes of air pollution have reworked physical and political relations between land and air in China and downwind. Continent in Dust offers an anthropology of strange weather, focusing on intersections among statecraft, landscape, atmosphere, and society. Traveling from state engineering programs that attempt to choreograph the movement of mobile dunes in the interior, to newly reconfigured bodies and airspaces in Beijing, and beyond, this book explores contemporary China as a weather system in the making: what would it mean to understand "the rise of China" literally, as the country itself rises into the air?

TAO Jun 02 2020

*Economic Impacts and Emergency Management of Disasters in China* Mar 12 2021 This book uses cutting-edge methods, such as big data mining methods on social media, generalized difference in difference, inoperational input-output models, improved data envelopment analysis, improved computable general equilibrium and others to calculate the economic impacts of climate and environmental disasters on China. This book provides the ideas, methods and cases of the redistribution of air pollution emissions in China through evaluating the benefits of meteorological disaster services and meteorological financial insurance. Using big data resources and data mining methods, as well as econometric models, etc., this book provides a comprehensive assessment of the economic impact of disasters in China and studies China's counterpart aid policy and international aid policy for disasters. This book is an academic monograph devoted to the China's case study. The intended readership includes academics, government officials, graduate students and people concerned about China.

*Environmental ScienceBites* Apr 24 2022 This book was written by undergraduate students at The Ohio State University (OSU) who were enrolled in the class Introduction to Environmental Science. The chapters describe some of Earth's major environmental challenges and discuss ways that humans are using cutting-edge science and engineering to provide sustainable solutions to these problems. Topics are as diverse as the students, who represent virtually every department, school and college at OSU. The environmental issue that is described in each chapter is particularly important to the author, who hopes that their story will serve as inspiration to protect Earth for all life.

**Report No** Jan 10 2021

**Bone China** Sep 17 2021 A Daphne Du Maurier-esque chiller set on the mysterious Cornish coast, from the award-winning author of *The Silent Companions*. 'Du Maurier-tastic' *GUARDIAN* 'Deliciously sinister' *HEAT* 'A clever, creepy read' *SUNDAY EXPRESS* Consumption has ravaged Louise Pincroft's family, leaving her and her father alone and heartbroken. But Dr Pincroft has plans for a revolutionary experiment: convinced that sea air will prove to be the cure his wife and children needed, he arranges to house a group of prisoners suffering from the same disease in the cliffs beneath his new Cornish home. Forty years later, Hester Why arrives at Morvoren House to take up a position as nurse to the now partially paralysed and almost entirely mute Miss Pincroft. Hester has fled to Cornwall to try and escape her past, but she soon discovers that her new home may be just as dangerous as her last... Laura Purcell's spine-chilling new novel, *The Shape of Darkness*, is out now!

**Atmospheric and Environmental Remote Sensing Data Processing and Utilization** Aug 05 2020 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

*Urban Atmospheric Aerosols* Jan 28 2020 The challenges faced by the atmospheric research community today are vast, complex, and multi-faceted. The book *Urban Atmospheric Aerosols: Sources, Analysis, and Effects* highlights important aspects concerning the chemical and optical properties, size distribution, sources, and potential health effects of fine urban air particles (PM<sub>2.5</sub>). The physical and chemical characterization of PM<sub>2.5</sub>, its source assignment, and the assessment of the magnitude and distribution of its emissions are crucial for establishing effective fine air particle regulations and assessing the associated risks to human health. This book brings together eight papers covering the main topics of the field and will be of interest to researchers who are interested in air quality in outdoor and indoor environments, air particle toxicity, and atmospheric chemistry, as well as global climate modelers.

*Air Pollution* May 14 2021 Give your readers a fascinating international survey of issues relating to air quality. Across four chapters, readers will evaluate what air quality means to different cultures, what air pollution's effects are, what the effects are of political and economical air pollution policy are, and what are effective strategies for reducing air pollution. Because readers are presented with a variety of international viewpoints, this book is also a great resource for report-writing and research. Superb essays sources include the United Nations Environment Programme, European Environment Agency, World Health Organization, Singapore Ministry of the Environment and Water Resources, Agence France-Presse Hong Kong, and the Greater London Authority. Places explored include Europe, China, United Arab Emirates, Singapore, Iraq, Ukraine, Kuwait, Mexico, Israel, and Iceland.

**Surviving Success** Dec 21 2021

□□□□ May 02 2020 Proverbs, those sage sayings and goblets of wisdom, invariably injected with gentle humour, are common to virtually all peoples and cultures on Earth. The Chinese are no exception. Gathered here are gems galore, which, while revealing much as to the Chinese national psyche, highlight particular traits and characteristics that span the globe.

**OECD Economic Surveys: China 2013** Apr 12 2021 OECD's 2013 Economic Survey of China examines recent economic developments, policies and prospects. Special chapters cover inclusive urbanisation and reforms for a healthier environment.

**Acid Rain - Deposition to Recovery** Sep 05 2020 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.

*Asian Atmospheric Pollution* Jul 04 2020 *Asian Atmospheric Pollution: Sources, Characteristics and Impacts* provides a concise yet comprehensive treatment of all aspects of pollution and air quality monitoring, across all of Asia. It focuses on key regions of the world and details a variety of sources, their transport mechanism, long term variability and impacts on climate at local and regional scales. It also discusses the feedback on pollutants, on different meteorological parameters like radiative forcing, fog formations, precipitation, cloud characteristics and more. Drawing upon the expertise of multiple well-known authors from different countries to underline some of these key issues, it includes sections dedicated to treatment of pollutant sources, studying of pollutants and trace gases using satellite/station based observations and models, transport mechanisms, seasonal and inter-annual variability and impact on climate, health and biosphere in general. *Asian Atmospheric Pollution: Sources, Characteristics and Impacts* is a useful resource for scientists and students to understand the sources and dynamics of atmospheric pollution as well as their transport from one continent to other continents, helping the atmospheric modelling community to model different scenarios of the pollution, gauge its short term and long term impacts across regional to global scales and better understand the ramifications of episodic events. Covers all of Asia in detail in terms of pollution Focuses not only on local pollution, but on long-term transport of these pollutants and their impacts on other regions as well as the globe Includes discussion of both particulate matter and greenhouse gases Serves as a single resource on Asian air pollution and Impacts from the most current research across the globe including the US, Asia, Africa and Europe

**The Asian Summer Monsoon** Jan 22 2022 *Asian Summer Monsoon System and Precipitation* focuses on the connections between the Indian Summer Monsoon and the East Asian Summer Monsoon, which includes the South China Sea Summer Monsoon. While these systems have profound differences, their interactions have significant impacts on the climatic regimes in the region and throughout the whole world. In summer, the ASM engine pumps moisture transported across thousands of miles from the Indian and Pacific Oceans to the monsoon regions, producing heavy rains over south and east Asia and its adjacent marginal seas. Anomalous distribution of the precipitation cause serious droughts and floods that have serious impact on economic development and people's lives in the monsoon regions. This book reviews the different subsystems and how they impact each other and provides guidance on modelling to better predict and understand these weather systems and subsystems. Synthesizes the connections between the East Asian Summer Monsoon, the Indian Summer Monsoon and the Asian Summer Monsoon system Includes subsections on holistic characteristics, sub-seasonal and interannual variability, teleconnection patterns, and projection of future change Connects current theory and practice on Asian Monsoon forecasting, providing researchers with new skills and information to use in climate and weather forecasting

*Weather and Climate of China* May 26 2022

**Chinese Journal of Infrared and Millimeter Waves** Sep 25 2019

*Red Wings Over the Yalu* Feb 08 2021 The Korean conflict was a pivotal event in China's modern military history. The fighting in Korea constituted an important experience for the newly formed People's Liberation Army Air Force (PLAAF), not only as a test case for this fledgling service but also in the later development of Chinese air power. Xiaoming Zhang fills the gaps in the history of this conflict by basing his research in recently declassified Chinese and Russian archival materials. He also relies on interviews with Chinese participants in the air war over Korea. Zhang's findings challenge conventional wisdom as he compares kill ratios and performance by all sides involved in the war. Zhang also addresses the broader issues of the Korean War, such as how air power affected Beijing's decision to intervene. He touches on ground operations and truce negotiations during the conflict. Chinese leaders placed great emphasis on the supremacy of human will over modern weaponry, but they were far from oblivious to the advantages of the latter and to China's technological limitations. Developments in China's own air power were critical during this era. Zhang offers considerable materials on the training of Chinese aviators and the Soviet role in that training, on Soviet and Chinese air operations in Korea, and on diplomatic exchanges over Soviet military assistance to China. He probes the impact of the war on China's conception of the role of air power, arguing that it was not until the Gulf War of the early 1990s that Chinese leaders engaged in a broad reassessment of the strategy they adopted during the Korean War. Military historians and scholars interested in aviation and foreign affairs will find this volume of special interest. As a unique work that presents the Chinese point of view, it stands as both a complement and a corrective to previous accounts of the conflict. Xiaoming Zhang earned his Ph.D. in history at the University of Iowa in 1994. He has had works published in various journals, including the *Journal of Military History*, which has twice selected him to receive the Moncado Prize for excellence in the writing of military history. Zhang currently resides in Montgomery, Alabama, where he teaches at the Air War College. Zhang's study is masterful in placing the Chinese air war in Korea in the context of China's development in the twentieth century. In addition to providing important new evidence on China's role in the Korean War, Zhang offers a particularly noteworthy analysis of Sino-Soviet relations during the early 1950s. William Stueck, Distinguished Research Professor of History, University of Georgia; author of *The Korean War: An International History* (1995) and *Rethinking the Korean War: A New Diplomatic and Strategic History* (2002)

**China** Oct 07 2020

**The Political Regulation Wave** Jul 24 2019 Offers an innovative theorization of how local political incentives impact bureaucratic regulation, using the case of air pollution control.

Forecasting Air Travel Demand Nov 19 2021 This book provides an updated, concise summary of forecasting air travel demand methodology. It looks at air travel demand forecasting research and attempts to outline the whole intellectual landscape of demand forecasting. It helps readers to understand the basic idea of TEI@I methodology used in forecasting air travel demand and how it is used in developing air travel demand forecasting methods. The book also discusses what to do when facing different forecasting problems making it a useful reference for business practitioners in the industry.

**Atmospheric Reactive Nitrogen in China** Oct 31 2022 Atmospheric reactive nitrogen (N) emissions, as an important component of global N cycle, have been significantly altered by anthropogenic activities, and consequently have had a global impact on air pollution and ecosystem services. Due to rapid agricultural, industrial, and urban development, China has been experiencing an increase in reactive N emissions and deposition since the late 1970s. Based on a literature review, this book summarizes recent research on: 1) atmospheric reactive N in China from a global perspective (Chapter 1); 2) atmospheric reactive N emissions, deposition and budget in China (Chapters 2-5); 3) the contribution of atmospheric reactive N to air pollution (e.g., haze, surface O<sub>3</sub>, and acid deposition) (Chapters 6-8); 4) the impacts of N deposition on sensitive ecosystems (e.g., forests, grasslands, deserts and lakes) (Chapters 9-12); and 5) the regulatory strategies for mitigation of atmospheric reactive N pollution from agricultural and non-agricultural sectors in China (Chapters 13-14). As such it offers graduate students, researchers, educators in agricultural, ecological and environmental sciences, and policy makers a glimpse of the environmental issues related to reactive N in China .

China and Global Change Sep 29 2022 Given China's current and potential impacts on the global environment and the contributions Chinese science can make to global change research, China's full participation in international research programs dealing with global change is very important. This book provides insights into how research priorities are determined and detailed information about institutional infrastructure, human resources, and other factors that will constrain or facilitate Chinese responses to and research on global change issues. An overview of research relevant to the International Geosphere-Biosphere Program and the World Climate Research Program is presented. Additionally, research in certain areas of atmospheric chemistry and physical and ecological interactions of the atmosphere and land surface are explored in further detail.