# **Beijng Air Quality Index**

Scott C. Dulebohn

**Environmental ScienceBites** Kylienne A. Clark, Travis R. Shaul, Brian H. Lower, 2015-09-15 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.

**Air Quality Monitoring and Forecasting** Pius Lee,Rick Saylor,Jeff McQueen,2018-04-27 This book is a printed edition of the Special Issue Air Quality Monitoring and Forecasting that was published in Atmosphere <u>A Recommended Air Pollution Index</u> United States. Federal Interagency Task Force on Air Quality Indicators,1976

Urban Air Pollution in Asian Cities Dieter Schwela, Gary Haq, Cornie Huizenga, Wha-Jin Han, Herbert Fabian, May Ajero., 2012-05-16 Air pollution has become part of the daily existence of many people who work, live and use the streets in Asian cities. Each day millions of city dwellers breathe air polluted with concentrations of chemicals, smoke and particles that dramatically exceed World Health Organization guideline values. Deteriorating air quality has resulted in significant impacts on human health and environment in Asia. This book provides a comprehensive and comparative assessment of the current status and challenges in urban air pollution management in 20 cities in the Asian region. It examines the effects on human health and the environment and future implications for planning, transport and energy sectors. National and local governments have begun to develop air quality management strategies to address the deterioration in urban air quality; however, the scope and effectiveness of such strategies vary widely. This book benchmarks these air quality management strategies, examines successes and failures in these cities and presents strategies for improving air quality management in cities across Asia and the rest of our rapidly urbanizing world. Information on air quality in Asia is clearly presented with easy-to-read city profiles, tables and graphs. This is an essential resource for all those concerned with urban air quality management, not just in Asia but in cities across our rapidly urbanizing world. Cities covered Bangkok, Beijing, Busan, Colombo, Dhaka, Hanoi, Ho Chi Minh City, Hong Kong, Jakarta, Kathmandu, Kolkata, Metro Manila, Mumbai, New Delhi, Seoul, Shanghai, Singapore, Surabaya, Taipei and Tokyo

China's Air Pollution Problems Claudio O. Delang,2016-04-20 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.

National Air Quality and Emissions Trends Report ,1992

**Policies and Investments to Address Climate Change and Air Quality in the Beijing-Tianjin-Hebei Region** Asian Development Bank, 2022-12-01 This report shows how air quality in the People's Republic of China's fast-growing Beijing-Tianjin-Hebei industrial hub has deteriorated and presents an integrated, cost-effective model to reduce emissions. Analyzing the costs and benefits of different scenarios, it sets out a modeling framework and shows how adapting policies to tackle emissions and improve air quality can help boost the region's development, environment, and public well-being. It shows how increasing energy efficiency and reducing fossil fuel consumption can improve air quality and help the PRC meet its commitment to achieve carbon neutrality before 2060.

Chemical, Physical and Mineralogical Properties of Atmospheric Particulate Matter in the Megacity Beijing Nina Jasmin Schleicher, 2014-07-30 The scope of this work is to develop a comprehensive understanding of the aerosol pollution in the megacity Beijing. The focus lies on the interaction of anthropogenic and geogenic aerosol particles, their spatio-temporal variation, the most important pollution sources as well as the impact of particulate aerosols on human health and the environment. Furthermore, the bioavailable fraction of metal concentrations and the effect of mitigation measures during the 2008 Olympic Games were evaluated.

Integrated Air Quality Management Nguyen Thi Kim Oanh,2012-07-05 The steady growth in the number of vehicles on the road, heavy reliance on coal, use of dirty fuels for residential combustion, and extensive open burning are some of the major factors leading to the progressive deterioration of air quality in developing countries in Asia. And despite efforts to establish and implement air quality measurement systems, the development of infrastructure, environmental technology, and management practices continues to lag behind the rate of emission increase. Based on ten years of coordinated research, Integrated Air Quality Management: Asian Case Studies discusses technical and policy tools for the integrated air quality management of developing countries in Asia. The book begins with an overview of major issues of air quality management practices in developing Asia and potential approaches to reduce pollution, including opportunities for integration of air quality improvement and climate migration strategies. It covers the methodology and results of fine particulate matter monitoring using traditional filter-based and satellite monitoring techniques. It examines the applications of a 3D dispersion modeling tool for urban and regional air quality management focusing on surface ozone, fine particulate matter, and acid deposition. The final chapters discuss innovative control technologies for gaseous air pollutants and illustrate the integrated air quality management in developing Asia through case studies for target source categories including agricultural residue field burning, vehicle emissions, brick kilns, and industrial VOC emission. Illustrated with case studies, this book presents an integrated air quality management methodology that employs technical and policy tools to achieve air quality goals. It includes technical information and policy recommendations based on the outcomes of several multi-year air quality management.

Measuring Air Quality ,1978

WHO global air quality in Chinese Cities by Substituting Natural Gas for Coal Mao Xianqiang, Guo Xiurui, International Development Research Centre (Canada), Economy and Environment Program for Southeast Asia, 2001 WHO global air quality guidelines Weltgesundheitsorganisation, World Health Organization, 2021-09-07 The main objective of these updated global guidelines is to offer health-based air quality guideline levels, expressed as long-term or short-term concentrations for six key air pollutants: PM2.5, PM10, ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide. In addition, the guidelines provide interim targets to guide reduction efforts of these pollutants, as well as good practice statements for the management of certain types of PM (i.e., black carbon/elemental carbon, ultrafine particles, particles originating from sand and duststorms). These guidelines are not legally binding standards; however, they provide WHO Member States with an evidence-informed tool, which they can use to inform legislation and policy. Ultimately, the goal of these guidelines is to help reduce levels of air pollutants in order to decrease the enormous health burden resulting from the exposure to air pollution worldwide.

Clearer Skies Over China Chris P. Nielsen, Mun S. Ho, 2013-10-18 A groundbreaking U.S.-Chinese inquiry into the effects of recent air pollution controls and prospective carbon taxes on China's economy and environment. China's carbon dioxide emissions now outstrip those of other countries and its domestic air quality is severely degraded, especially in urban areas. Its sheer size and its growing, fossil-fuel-powered economy

mean that China's economic and environmental policy choices will have an outsized effect on the global environmental future. Over the last decade, China has pursued policies that target both fossil fuel use and atmospheric emissions, but these efforts have been substantially overwhelmed by the country's increasing energy demands. With a billion citizens still living on less than \$4,000 per year, China's energy and environmental policies must be reconciled with the goals of maintaining economic growth and raising living standards. This book, a U.S.-Chinese collaboration of experts from Harvard and Tsinghua University, offers a groundbreaking integrated analysis of China's economy, emissions, air quality, public health, and agriculture. It first offers essential scientific context and accessible summaries of the book's policy findings; it then provides the underlying scientific and economic research. These studies suggest that China's recent sulfur controls achieved enormous environmental health benefits at unexpectedly low costs. They also indicate that judicious implementation of carbon taxes could reduce not only China's carbon emissions but also its air pollution more comprehensively than current single-pollutant policies, all at little cost to economic growth.

Urban Air Pollution in Megacities of the World John P. Allen,1993-01-18 The Urban Air Pollution in Mega Cities of the World d report assesses air quality in 20 of the world's megacities (defined for the purposes of this book as cities with a population of 10 million or more by the year 2000). The report highlights the air quality problems associated with urbanization. These problems are of increasing importance due to projected growth in the urban pollution world-wide and thus the potential increase in the number of people exposed. The issues raised apply not only to current mega-cities but to most rapidly developing urban areas. The cities are; New York City, Los Angeles, New Delhi, Calcutta, Bombay, Cairo/Giza, Karachi, Moscow, London, Seoul, Metro Manila/Quezon City, Beunos Aries, Rio de Janeiro, Sao Paulo, Tokyo/Yokohama, Beijing, Shanghai, Jakarta, Bangkok and Mexico City.

The promise of Beijing: evaluating the impact of the 2008 Olympic games on air quality Yuyu Chen, 2011 Abstract: To prepare for the 2008 Olympic Games, China adopted a number of radical measures to improve air quality. Using officially reported air pollution index (API) from 2000 to 2009, we show that these measures improved the API of Beijing during and after the Games, but 60% of the effect faded away by the end of October 2009. Since the credibility of API data has been questioned, an objective and indirect measure of air quality at a high spatial resolution â?? aerosol optimal depth (AOD), derived using the data from the NASA satellites â?? was analyzed and compared with the API trend. The analysis confirms that the improvement was real but temporary and most improvement was attributable to plant closure and traffic control. Our results suggest that it is possible to achieve real environmental improvement in an authoritarian regime but the magnitude of the effect and how long it lasts depend on the political motivation behind the policy interventions

Urban Air Pollution Monitoring by Ground-Based Stations and Satellite Data Mikalai Filonchyk, Haowen Yan, 2018-05-11 This book examines air pollution of a big city using multi-year and multi-season data from ground-based air monitoring stations and satellite sounding data, which provides more clear and detailed information on the main sources of air pollution, the long-term trend of pollution, the influence of meteorological parameters on pollution levels, and trajectories of polluted air masses. For example, the book shows that particulate matter from local sources is transported from deserts to create air quality challenges. It also analyzes the effects of desert and semi-desert landscapes on high concentrations of pollutants.

Air Pollution, Climate, and Health Meng Gao, Zifa Wang, Gregory Carmichael, 2021-04-14 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

Chemical, Physical and Mineralogical Properties of Atmospheric Particulate Matter in the Megacity Beijing Nina Jasmin Schleicher, 2012

**Air Quality Management** James W. S. Longhurst, Derek M. Elsom, H. Power, 2000 This book evaluates and reviews the development and application of the air quality management process from a European, North American and Australian perspective. The contemporary approaches and experiences described provide a critical assessment of practice as well as important pointers to the future development of air quality management regimes.

Handbook of Indoor Air Quality Yinping Zhang,Philip K. Hopke,Corinne Mandin,2022-11-23 People live in indoor environment about 90% of lifetime and an adult inhales about 15 kg air each day, over 75% of the human body's daily mass intake (air, food, water). Therefore, indoor air quality (IAQ) is very important to human health. This book provides the basic knowledge of IAQ and highlights the research achievements in the past two decades. It covers the following 12 sections: introduction, indoor air chemicals, indoor air particles, measurement and evaluation, source/sink characteristics, indoor chemistry, human exposure to indoor pollutants, health effects and health risk assessment, IAQ and cognitive performance, standards and guidelines, IAQ control, and air quality in various indoor environments. It provides a combination of an introduction to various aspects on IAQ studies, the current state-of-knowledge, various advances and the perspective of IAQ studies. It will be very helpful for the researchers and technicians in the IAQ and the related fields. It is also useful for experts in other fields and general readers who want to obtain a basic understanding of and research advances in the field of IAQ. A group of experts in IAQ research have been recruited to write the chapters. Their research interests and experience cover the scope of the book. In addition, some experienced experts in IAQ field have been invited as advisors or reviewers to give their comments, suggestions and revisions on the handbook framework and the chapter details. Their contribution guarantees the quality of the book. We are very grateful to them. Last but not least, we express our heartfelt thanks to Prof. Spengler, Harvard University, for writing the foreword of the current Handbook of Indoor Air Quality 2001, 1st ed. New York: McGraw-Hill. In addition to hard copies, the book is also published online and will be updated by the authors as needed to keep it aligned with current knowledge. These salient features can make the handbook fres

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