

W. Michaelis

# Air Pollution

Dimensions, Trends and Interactions  
with a Forest Ecosystem



Springer

# Air Pollution Dimensions Trends And Interactions With A Forest Ecosystem

**Hongru Du**



## **Air Pollution Dimensions Trends And Interactions With A Forest Ecosystem:**

Air Pollution Walfried Michaelis, 2012-12-06 In the early 1980s forest decline became a matter of public and scientific concern when forest stands with Norway spruce *Picea abies* L Karst showed evident damage on a large geographical scale throughout Europe The causes of the observed symptoms could not be elucidated on the basis of the state of knowledge at that time Therefore several research projects were launched both in Germany and in some other countries in order to identify the relevant pathogenic factors In 1985 the Federal Ministry for Research and Technology decided to include the site Postturm forest district Farchau Ratzeburg in the sponsorship of the research on forest decline as a site typical for lowlands and a sphere of anthropogenic urban influence The investigation area is situated about 40 km east northeast of the city of Hamburg Since spruce trees in particular showed severe decline emphasis was laid on this species The programme started in 1986 and extended to 1992 with some activities continuing beyond this time Working groups from 13 institutions took part in the overall project

### **Global Climate Change and Human Impacts on Forest Ecosystems** J. Puhe, B.

Ulrich, 2012-12-06 The inclusion of forests as potential biological sinks in the Kyoto Protocol to the United Nations Framework Convention on Climate Change UNFCCC in 1997 has attracted international attention and again has put scientific and political focus on the world's forests regarding their state and development The international discussion induced by the Kyoto Protocol has clearly shown that not only the tropical rain forests are endangered by man's activities but also that the forest ecosystems of boreal temperate mediterranean and subtropical regions have been drastically modified Deforestation on a large scale burning over exploitation and the degradation of the biological diversity are well known symptoms in forests all over the world This negative development happens in spite of the already existing knowledge of the benefits of forests on global energy and water regimes the biogeochemical cycling of carbon and other elements as well as on the biological and cultural diversity The reasons why man does not take care of forests properly are manifold and complex and there is no easy solution how to change the existing negative trends One reason that makes it so difficult to assess the impacts of human activity on the future development of forests is the large time scale in which forests react ranging from decades to centuries

**Information Resources in Toxicology** Philip Wexler, 2000 History K D Watson P Wexler and J Everitt Highlights in the History of Toxicology Selected References in the History of Toxicology A Historical Perspective of Toxicology Information Systems Books and Special Documents G L Kennedy Jr P Wexler N S Selzer and L A Malley General Texts Analytical Toxicology Animals in Research Biomonitoring Biomarkers Biotechnology Biotoxins Cancer Chemical Compendia Chemical Cosmetics and Other Consumer Products Chemical Drugs Chemical Dust and Fibers Chemical Metals Chemicals Pesticides Chemicals Solvents Chemical Selected Chemicals Clinical Toxicology Developmental and Reproductive Toxicology Environmental Toxicology General Environmental Toxicology Aquatic Environmental Toxicology Atmospheric Environmental Toxicology Hazardous Waste Environmental Toxicology Terrestrial Environmental Toxicology Wildlife Ep

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