



# The Long-Range Atmospheric Transport of Natural and Contaminant Substances

Edited by

Anthony H. Knap

NATO ASI Series

# Long Range Atmospheric Transport Of Natural And Contaminant Substances

**Robert D. Hudson**



## **Long Range Atmospheric Transport Of Natural And Contaminant Substances:**

The Long-Range Atmospheric Transport of Natural and Contaminant Substances Anthony H. Knap, 2012-12-06  
Proceedings of the NATO Advanced Research Workshop on The Long Range Atmospheric Transport of Natural and Contaminant Substances from Continent to Ocean and Continent to Continent St Georges Bermuda January 10 17 1988  
*Annual Report ... National Acid Precipitation Assessment Program* National Acid Precipitation Assessment Program (U.S.). Office of the Director of Research, 1988      **Precipitation Scavenging And Atmosphere-Surface Exchange**  
Stephen Schwartz, W.G.N. Slinn, 1992-06-01 This three volume set contains selected papers arising from a conference held in 1991 on precipitation and air pollution The first volume addresses the precipitation scavenging process the second deals with atmosphere surface exchange processes and the third covers air pollution and deposition      *Ice Core Studies of Global Biogeochemical Cycles* Robert J. Delmas, 2013-06-29 The analysis of polar ice cores has proven to be very instructive about past environmental conditions on the time scale of several climatic cycles and recent drilling operations have provided information of great value for global change issues The book presents the most recent data extracted from Greenland ice cores and surface experiments and compares them with former Antarctic results It contains background articles original contributions and group reports of interest to scientists climatologists atmospheric chemists and glaciologists involved in global change research      **Global Atmospheric Chemical Change** C.N. Hewitt, W.T. Sturges, 2013-11-11 Air pollution has historically been viewed as a local or regional scale problem with attention focused on acute episodes such as the sulphur dioxide and smoke smogs of London in the 1950s and 1960s and the photochemical smogs of southern California first recognized by Haagen Smit in the early 1950s In recent years however it has become apparent that human activity has and still is changing the chemical composition of the atmosphere on a global scale The composition of the atmosphere has seen enormous changes due to natural processes since the formation of the planet Data obtained from air bubbles trapped in polar ice are beginning to reveal information about these changes over the last tens of thousands of years and geochemical models of the evolution of the Earth give us insights into the changes over much longer periods of time Perhaps the crucial differences between these natural changes and those now being induced by man are their relative rates of change The magnitude of present day fluxes of some compounds released as air pollutants is in some cases much larger than those arising naturally In other cases for example carbon dioxide the anthropogenic emission rates are small compared with that of the natural cycle but the kinetics of the system are such that the steady state concentrations of the compounds in the atmosphere are now being perturbed      **Bibliography of Agriculture**, 1990      Annual Report to the President and the Congress of the United States United States. Interagency Task Force on Acid Precipitation, 1988      **Colloquium on Geology, Mineralogy, and Human Welfare** Joseph V. Smith, 1999-01-01      Recent Advances in Quantitative Remote Sensing José A. Sobrino, José Antonio Sobrino Rodríguez, 2002      Pesticides in the Atmosphere Michael S. Majewski, 1995

*Chemical Speciation in the Environment* A. M. Ure, C. M. Davidson, 2008-04-15 Considerable recent research has focused on the topic of chemical speciation in the environment. It is increasingly realised that the distribution, mobility and biological availability of chemical elements depend not simply on their concentrations but critically on the forms in which they occur in natural systems. Continuing developments in analytical chemistry have made speciation practicable even where analytes are present at trace levels as is often the case in natural samples. In the second edition of this book the expertise of scientists involved in chemical speciation in various fields have been brought together to provide an overview of the current status of speciation science and indicate how the field may develop in the future.

Dimethylsulphide: Oceans, Atmosphere and Climate (1992) G. Restelli, G. Angeletti, 1993-09-30 Dimethylsulphide (DMS) emitted by marine phytoplankton is the second most important source of atmospheric sulphur after anthropogenic SO<sub>2</sub>. In the atmosphere DMS is transformed into condensable acidic sulphur products and through gas to particle conversion it becomes the most important natural source of atmospheric sulphate aerosols. Possible climatic effects have been suggested linked to the negative radiative forcing due to scattering of solar radiation and especially to modification of cloud albedo over oceans by sulphate aerosol particles. These effects occur in addition to those deriving from the superimposed anthropogenic component of the atmospheric sulphate. Understanding the cycle of DMS in the marine troposphere and its interaction with the aerosol budget and cloud properties has become a key research target in these last years. Our knowledge of the many processes involved is still fragmentary however. This book which updates the state of our comprehension of the marine DMS cycle with special regard to its climatic impact will be of interest to marine biologists, atmospheric chemists, aerosol physicists and climatologists and to scientists concerned with changes in the Earth's climate.

**Emerging Contaminants and Plants** Tariq Aftab, 2023-02-16 Emerging contaminants (ECs) are predominantly unregulated anthropogenic chemicals that occur in air, soil, water, food and plant/animal tissues in trace concentrations. ECs are persistent in the environment, capable of perturbing the physiology of target receptors and therefore are increasingly regarded as a subject of concern. This volume aims to enhance understanding of emerging contaminants' effects on plants and the environment and to highlight and address the need of sustainable and eco-friendly approaches in mitigating and remediating the effects of ECs. The book comprises chapters from diverse areas dealing with biotechnology, microbial technology, nanotechnology, molecular biology, remediation and more. This volume will be useful to remediation practitioners, researchers, regulators and graduate students.

**Annual Report ... and Findings Update** National Acid Precitation Assessment Program (U.S.). Office of the Director, 1989

*Mercury as a Global Pollutant* Donald B. Porcella, John W. Huckabee, Brian Wheatley, 2012-12-06

ACKNOWLEDGEMENTS xiv PART I MERCURY AND HUMAN HEALTH B. WHEATLEY and S. PARADIS I. Exposure of Canadian Aboriginal Peoples to Methylmercury 3 11 M. GIRARD and C. DUMONT I. Exposure of James Bay Cree to Methylmercury during Pregnancy for the Years 1983-91 13 19 M. RICHARDSON M. MITCHELL S. COAD and R. RAPHAEL I. Exposure to Mercury in Canada: A Multimedia Analysis 21 30 M. RICHARDSON M.

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problems of global environmental change These problems may be the most challenging facing humanity in the 21 st century In the broadest sense global change encompasses both changes to the status of the large globally connected atmospheric oceanic and terrestrial environments e g tropospheric temperature increase and change occurring as the result of nearly simultaneous local changes in many regions of the world e g eutrophication

**Nitrogen Cycling in the North Atlantic Ocean and its Watersheds** Robert W. Howarth,2012-12-06 Human activity has dramatically altered the global nitrogen cycle in recent decades These changes are not evenly distributed around the world rather they are greatest in regions of significant industrial and agricultural activity as the synthesis and use of inorganic fertilizers cultivation of legumes burning of fossil fuels and the simple act of concentrating humans and animals in dense populations all lead to the release of excess reactive forms of nitrogen into the environment In part because reactive nitrogen is frequently a limiting nutrient in many terrestrial and aquatic systems an excess can lead to a variety of adverse effects on both environmental and human health The North Atlantic Ocean and its contributing watersheds constitute a region which has seen perhaps the greatest increase in anthropogenically derived nitrogen In May of 1994 the International Scope Nitrogen Project with funding from the Andrew Mellon Foundation the United Nations Environment Program and the World Meteorological Organization sponsored a workshop held on Block Island RI USA entitled Nitrogen Dynamics of the North Atlantic Basin More than 50 scientists from 12 different countries convened with a unique set of goals an integrated and comprehensive estimate of the current nitrogen cycle of the ocean coastal systems and contributing watersheds of the North Atlantic region an analysis of human induced changes to those cycles and an assessment of the current and future effects of human induced changes to nitrogen cycling throughout the globe

Point Sources of Pollution: Local Effects and their Control - Volume II Qian Yi,2009-08-17 Point Sources of Pollution Local Effects and their Control is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Point sources of pollution are the major causes of degradation of ecosystems and may have significant effects on human health if they are not properly controlled They can be classified in terms of sources the discharged media and the pollutants themselves Broadly speaking the sources include municipal and industrial sector activities and the media include water air and solids Noise is also an important form of pollution Pollutant compositions from point sources can be vast varied and complex and can vary between different countries and regions The Theme discusses matters of great relevance to our world such as Vehicular Emissions Industrial Pollution Domestic Pollution Environmental Pollutants and Their Control Technologies for Air Pollution Control and Technologies for Water Pollution Control These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Air Pollution Modeling and Its Application VII** Han Van Dop,2013-11-11 Air pollution remains a major environmental issue

despite many years of study and much legislative control In recent times pollution on a global scale has become of particular concern The gradually changing concentration of trace gases in the global troposphere due to man's activity is becoming a matter of serious concern No scientist would dare to predict in detail the consequences of this gradual change due to its immense complexity involving social and economic factors and near countless chemical and physical cycles in our biosphere In this chain of processes the transport of pollution is an important factor but only a factor Therefore I would like to emphasize that the modelling of atmospheric transport is becoming more and more an activity which fits into larger frameworks and can no longer be exercised as a single step which bridges the gap between emissions and policy measures This is also reflected in the topics and papers which were presented at this conference The topics were emission inventories for and source treatment in air pollution dispersion models modelling of accidental releases regional and global scale dispersion modelling including boundary layer free troposphere exchange processes and subgrid scale parameterisations model verification and policy implications new developments in dispersion modelling and theory 56 papers were presented in these sections While many posters were discussed in a special session

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