



# Protecting the Ozone Layer

SCIENCE AND STRATEGY

Edward A. Parson

# Protecting The Ozone Layer Science And Strategy

**National Research Council, Division on  
Earth and Life Studies, Board on  
Atmospheric Sciences and  
Climate, America's Climate Choices:  
Panel on Advancing the Science of  
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## **Protecting The Ozone Layer Science And Strategy:**

**Protecting the Ozone Layer** Edward Parson, 2003 Providing an account of the ozone depletion issues from the attempts to develop international action in the 1970s to the mature functioning of the international regime this book examines the parallel developments of politics and negotiations technological progress and industry strategy that shaped the issue s development and its management

**Protecting the Ozone Layer** Edward Parson, 2003 Providing an account of the ozone depletion issues from the attempts to develop international action in the 1970s to the mature functioning of the international regime this book examines the parallel developments of politics and negotiations technological progress and industry strategy that shaped the issue s development and its management

**Protecting the Ozone Layer** Stephen O. Andersen, K. Madhava Sarma, 2012-05-23 In the 1970s the world became aware of a huge danger the destruction of the stratospheric ozone layer by CFCs escaping into the atmosphere and the damage this could do to human health and the food chain So great was the threat that by 1987 the UN had succeeded in coordinating an international treaty to phase out emissions which over the following 15 years has been implemented It has been hailed as an outstanding success It needed the participation of all the parties governments industry scientists campaigners NGOs and the media and is a model for future treaties This volume provides the authoritative and comprehensive history of the whole process from the earliest warning signs to the present It is an invaluable record for all those involved and a necessary reference for future negotiations to a wide range of scholars students and professionals

*Advancing the Science of Climate Change* National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, America's Climate Choices: Panel on Advancing the Science of Climate Change, 2011-01-10 Climate change is occurring is caused largely by human activities and poses significant risks for and in many cases is already affecting a broad range of human and natural systems The compelling case for these conclusions is provided in *Advancing the Science of Climate Change* part of a congressionally requested suite of studies known as America s Climate Choices While noting that there is always more to learn and that the scientific process is never closed the book shows that hypotheses about climate change are supported by multiple lines of evidence and have stood firm in the face of serious debate and careful evaluation of alternative explanations As decision makers respond to these risks the nation s scientific enterprise can contribute through research that improves understanding of the causes and consequences of climate change and also is useful to decision makers at the local regional national and international levels The book identifies decisions being made in 12 sectors ranging from agriculture to transportation to identify decisions being made in response to climate change *Advancing the Science of Climate Change* calls for a single federal entity or program to coordinate a national multidisciplinary research effort aimed at improving both understanding and responses to climate change Seven cross cutting research themes are identified to support this scientific enterprise In addition leaders of federal climate research should redouble efforts to deploy a comprehensive climate observing system improve climate models and

other analytical tools invest in human capital and improve linkages between research and decisions by forming partnerships with action oriented programs

**Science and International Environmental Policy** Radoslav S. Dimitrov, 2005-11-09 The proliferation of environmental agreements is a defining feature of modern international relations that has attracted considerable academic attention The cooperation literature focuses on stories of policy creation and ignores issue areas where policy agreements are absent Science and International Environmental Policy introduces nonregimes into the study of global governance and compares successes with failures in the formation of environmental treaties By exploring collective decisions not to cooperate it explains why international institutions form but also why when and how they do not emerge The book is a structured comparison of global policy responses to four ecological problems deforestation coral reefs degradation ozone depletion and acid rain It explores the connection between knowledge and action in world politics by investigating the role of scientific information in environmental management The study shows that different types of expert information play uneven roles in policymaking Extensive analysis of multilateral scientific assessments participatory observation of negotiations and interviews with policymakers and scientists reveal that some kinds of information are critical requirements for policy creation while other types are less influential Moreover the state of knowledge on ecological problems is not a function of sociopolitical power By disaggregating the concept of knowledge the book solves contradictions in previous theoretical work and offers a compelling account of the interplay between knowledge interests and power in global environmental politics

*The Global Environment* Regina S. Axelrod, Stacy D. VanDeveer, 2019-07-11 The new edition of *The Global Environment Institutions Law and Policy* by Regina S Axelrod and Stacy D VanDeveer reflects the latest events in the in global environmental politics and sustainable development while providing balanced coverage of the key institutions environmental issues treaties and policies This award winning book highlights global environmental institutions major state and non state actors and includes a wide range of cases such as climate change biodiversity hazardous chemicals ozone layer depletion nuclear energy and resource consumption

**Atmospheric Science at NASA** Erik M. Conway, 2008-12-08 Honorable Mention 2008 ASLI Choice Awards Atmospheric Science Librarians International This book offers an informed and revealing account of NASA s involvement in the scientific understanding of the Earth s atmosphere Since the nineteenth century scientists have attempted to understand the complex processes of the Earth s atmosphere and the weather created within it This effort has evolved with the development of new technologies from the first instrument equipped weather balloons to multibillion dollar meteorological satellite and planetary science programs Erik M Conway chronicles the history of atmospheric science at NASA tracing the story from its beginnings in 1958 the International Geophysical Year through to the present focusing on NASA s programs and research in meteorology stratospheric ozone depletion and planetary climates and global warming But the story is not only a scientific one NASA s researchers operated within an often politically contentious environment Although environmental issues garnered strong public and political support in the 1970s the



following decades saw increased opposition to environmentalism as a threat to free market capitalism Atmospheric Science at NASA critically examines this politically controversial science dissecting the often convoluted roles motives and relationships of the various institutional actors involved among them NASA congressional appropriation committees government weather and climate bureaus and the military

**Discerning Experts** Michael Oppenheimer, Naomi Oreskes, Dale Jamieson, Keynyn Brysse, Jessica O'Reilly, Matthew Shindell, Milena Wazeck, 2019-03-07 Discerning Experts assesses the assessments that many governments rely on to help guide environmental policy and action Through their close look at environmental assessments involving acid rain ozone depletion and sea level rise the authors explore how experts deliberate and decide on the scientific facts about problems like climate change They also seek to understand how the scientists involved make the judgments they do how the organization and management of assessment activities affects those judgments and how expertise is identified and constructed Discerning Experts uncovers factors that can generate systematic bias and error and recommends how the process can be improved As the first study of the internal workings of large environmental assessments this book reveals their strengths and weaknesses and explains what assessments can and cannot be expected to contribute to public policy and the common good

**International Organizations and Implementation** Jutta Joachim, Bob Reinalda, Bertjan Verbeek, 2007-11-19 This edited volume assesses the impact of international organizations in the implementation of internationally agreed policies

**Environmental Science and Technology** Stanley E. Manahan, 2006-10-20 Formally established by the EPA nearly 15 years ago the concept of green chemistry is beginning to come of age Although several books cover green chemistry and chemical engineering none of them transfer green principles to science and technology in general and their impact on the future Defining industrial ecology Environmental Science and Tec

**The Science and Politics of Global Climate Change** Andrew E. Dessler, Edward A. Parson, 2006 In this accessible primer Dessler and Parson combine their expertise in atmospheric science and public policy to help scientists policy makers and the public sort through the conflicting claims in the climate change debate The authors explain how scientific and policy debates work summarize present scientific knowledge and uncertainty about climate change and discuss the available policy options Along the way they explain WHY the debate is so confusing Anyone with an interest in how science is used in policy debates will find this discussion illuminating The book requires no specialized knowledge but is accessible to any college educated general reader who wants to make more sense of the climate change debate It can also be used as a textbook to explain the details of the climate change debate or as a resource for science students or working scientists to explain how science is used in policy debates

**Principles of International Economic Law, 3e** Matthias Herdegen, 2024-03-20 Principles of International Economic Law provides a comprehensive overview of the central topics in international economic law with an emphasis on the interplay between the different economic and political interests on both the international and domestic levels Following recent tendencies the book examines classical topics of international economic law such as WTO

law investment protection commercial law and monetary law in context with emerging aspects of human rights environmental protection and the legitimate claims of developing countries A perfect introductory text to the field of international economic law the book thoroughly analyses legal developments within their wider political economic or social context Topics covered range from codes of conduct for multinational enterprises to human rights implications of the exploiting natural resources and the legal impact of climate protection The book demonstrates the economic foundations and economic implications of legal frameworks It puts into profile the often complex relationship between on the one hand international standards on liberalization and economic rationality and on the other state sovereignty and national preferences It describes the newly developed forms of economic cooperation between states such as the G7 the G20 or the BRICS Herdegen's Principles of International Economic Law has established itself as a leading textbook in the field This fully updated third edition covers new aspects and developments with a particular focus on corporate social responsibility challenges for WTO law mega regional agreements such as CPTPP the impact of human rights law and environmental standards and cryptocurrencies

**Beyond Resource Wars** Shlomi Dinar, 2011-03-18 An argument that resource scarcity and environmental degradation can provide an impetus for cooperation among countries Common wisdom holds that the earth's dwindling natural resources and increasing environmental degradation will inevitably lead to inter state conflict and possibly even set off resource wars Many scholars and policymakers have considered the environmental roots of violent conflict and instability but little attention has been paid to the idea that scarcity and degradation may actually play a role in fostering inter state cooperation Beyond Resource Wars fills this gap offering a different perspective on the links between environmental problems and inter state conflict Although the contributors do not deny that resource scarcity and environmental degradation may become sources of contention they argue that these conditions also provide the impetus for cooperation coordination and negotiation between states The book examines aspects of environmental conflict and cooperation in detail across a number of natural resources and issues including oil water climate change ocean pollution and biodiversity conservation The contributors argue that increasing scarcity and degradation generally induce cooperation across states but when conditions worsen and a problem becomes too costly or a resource becomes too scarce cooperation becomes more difficult Similarly low levels of scarcity may discourage cooperation because problems seem less urgent With contributions from scholars in international relations economics and political science Beyond Resource Wars offers a comprehensive and robust investigation of the links among scarcity environmental degradation cooperation and conflict

**Managers of Global Change** Frank Biermann, Bernd Siebenhüner, 2009 An examination of the role and relevance of international bureaucracies in global environmental governance Assessments of Regional and Global Environmental Risks Alexander E. Farrell, Jill Professor Jäger, 2010-09-30 As environmental challenges grow larger in scale and implications it is increasingly important to apply the best scientific knowledge in the decisionmaking process Editors Farrell and Jäger

present environmental assessments as the bridge between the expert knowledge of scientists and engineers on the one hand and decisionmakers on the other When done well assessments have a positive impact on public policy the strategic decisions of private firms and ultimately the quality of life for many people This book is the result of an international interdisciplinary research project to analyze past environmental assessments and understand how their design influenced their effectiveness in bringing scientific evidence and insight into the decisionmaking process The case studies in the book feature a wide range of regional and global risks including ozone depletion transboundary air pollution and climate change Assessments of Regional and Global Environmental Risks offers several important contributions It provides a clear account of the choices faced in the design of environmental assessments and a clear description of the lessons learned from past assessments It illustrates why assessments are social processes not simply reports And while they identify no universal one size fits all design the authors find that to be effective environmental assessments must be viewed by those who produce and use them as being salient credible in their scientific support and legitimate or fair in design and execution

*After Cooling* Eric Dean Wilson, 2022-07-19 This ambitious and delightful The New York Times work of literary nonfiction interweaves the science and history of the powerful refrigerant and dangerous greenhouse gas Freon with a haunting meditation on how to live meaningfully and morally in a rapidly heating world In *After Cooling* Eric Dean Wilson braids together air conditioning history climate science road trips and philosophy to tell the story of the birth life and afterlife of Freon the refrigerant that ripped a hole larger than the continental United States in the ozone layer As he traces the refrigerant's life span from its invention in the 1920s when it was hailed as a miracle of scientific progress to efforts in the 1980s to ban the chemical and the resulting political backlash Wilson finds himself on a journey through the American heartland trailing a man who buys up old tanks of Freon stockpiled in attics and basements to destroy what remains of the chemical before it can do further harm Wilson is at heart an essayist looking far and wide to tease out what particular forces in American culture in capitalism in systemic racism in our values combined to lead us into the Freon crisis and then out Meticulously researched and engagingly written Amitav Ghosh this knockout debut New York Journal of Books offers a rare glimpse of environmental hope suggesting that maybe the vast and terrifying problem of global warming is not beyond our grasp to face

*Analysis of Global Change Assessments* National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Analysis of Global Change Assessments, 2007-09-07 Global change assessments inform decision makers about the scientific underpinnings of a range of environmental issues such as climate change stratospheric ozone depletion and loss of biodiversity Dozens of assessments have been conducted to date by various U S and international groups many of them influencing public policies technology development and research directions This report analyzes strengths and weaknesses of eight past assessments to inform future efforts Common elements of effective assessments include strong leadership extensive engagement with interested and affected parties a transparent science policy interface

and well defined communication strategies The report identifies 11 essential elements of effective assessments and recommends that future assessments include decision support tools that make use of information at the regional and local level where decisions are made     The North American Carbon Budget and Implications for the Global Carbon Cycle ,2007 Accompanying CD ROM contains full text of book and appendixes Cf menu frames of CD ROM     International Environmental Governance PeterM. Haas,2017-07-05 International Environmental Governance reviews the contentious approaches to addressing global and transboundary environmental threats The volume collects together the most influential and important literature on the major political approaches to dealing with these problems their histories major debates and research frontiers It is accompanied by a substantial introduction which reviews the evolution of the academic contribution to environmental governance focusing on a wide array of international environmental problems     The Environmental Responsibility Reader Martin Reynolds,Christine Blackmore,Mark J. Smith,2009-08-15 The Environmental Responsibility Reader is a definitive collection of classic and contemporary environmental works that offers a comprehensive overview of the issues involved in environmental responsibility steering the reader through each development in thought with a unifying and expert editorial voice This essential text expertly explores seemingly intractable modern day environmental dilemmas including climate change fossil fuel consumption fresh water quality industrial pollution habitat destruction and biodiversity loss Starting with Silent Spring and moving through to more recent works the book draws on contemporary ideas of environmental ethics corporate social responsibility ecological justice fair trade global citizenship and the connections between environmental and social justice configuring these ideas into practical notions for responsible action with a unique global and integral focus on responsibility



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