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## Meteorological Monographs

### Synoptic–Dynamic Meteorology and Weather Analysis and Forecasting

*A Tribute to Fred Sanders*

Lance F. Bosart and Howard B. Bluestein, Eds.



Key scientific research by authors including Kerry Emanuel, Robert Burpee, Edwin Kessler, and Louis Uccellini illustrates the evolution of the fields of synoptic meteorology, weather analysis, forecasting, and climatology. It is published in honor of the late Fred Sanders, emeritus professor of meteorology at MIT, whose influence was vast: he coined the term “bomb” for explosively intensifying winter storms; he established the roles of low-level horizontal confluence and convergence in frontal collapse; and he invented the field of oceanic mesometeorology. This monograph is both an essential tool for

educating future weather researchers and a testament to Sanders’s legacy of teaching. ©2008, 440 pages hardcover Meteorological Monograph Vol. 33 No. 55 ISBN: 978-1-878220-84-4

AMS Order Code: MM55

List price: \$120 Member price: \$80

[Additional Information](#) (PDF)



### Northeast Snowstorms (Volume I: Overview, Volume II: The Cases)

By Paul J. Kocin and Louis W. Uccellini

One of the five best weather books as reviewed by the *Wall Street Journal*.

Northeast Snowstorms offers the most comprehensive treatment on winter storms ever compiled: more than 50 years of professional experience in the form of a two-volume compendium of insights, examples, photographs, over 200 color figures, and a DVD of added material. 2004.

Meteorological Monograph Series, Volume 32, number 54; 818 pages, hardbound;

ISBN 1-878220-64-0; AMS Code MM54.

List price - \$100.00; AMS member price \$80.00; AMS Student Member price \$60.00

### **A Half Century of Progress in Meteorology: A Tribute to Richard Reed**

**Edited by Richard H. Johnson and Robert A. Houze Jr.**

Through a series of reviews by invited experts, this monograph pays tribute to Richard Reed's remarkable contributions to meteorology and his leadership in the science community over the past 50 years. 2003. *Meteorological Monograph Series, Volume 31, number 53*; 139 pages, hardbound; ISBN 1-878220-58-6; AMS Code MM53.

List price - \$80.00; AMS member price \$60.00

### **Radar and Atmospheric Science: A Collection of Essays in Honor of David Atlas**

**Edited by Roger M. Wakimoto and Ramesh Srivastava**

This monograph pays tribute to one of the leading scientists in meteorology, Dr. David Atlas, and should help stimulate the next generation of radar meteorologists, provide an excellent resource book for scientists and educators, and serve as a historical record of the gathering of many of our distinguished scientists in our field. August 2003. *Meteorological Monograph Series, Volume 30, number 52*; 270 pages, hardbound; ISBN 1-878220-57-8; AMS Code MM52.

List price - \$100.00; AMS member price \$80.00

### **Cloud Systems, Hurricanes, and the Tropical Rainfall Measuring Mission (TRMM): A Tribute to Dr. Joanne Simpson**

**Edited by Dr. Wei-Kuo Tao and Dr. Robert Adler**

This monograph is a fitting tribute to a true pioneer in tropical meteorology research and describes many of the high points of her illustrious career culminating in her management of the crucial and highly successful TRMM project. 2003. *Meteorological Monograph Series, Volume 29, number 51*; 234 pages, hardbound; ISBN 1-878220-54-3; AMS Code MM51.

List price - \$75.00; AMS member price \$55.00

### **Severe Convective Storms**

**Edited by Charles A. Doswell III**

This volume is a collection of 13 review papers by a distinguished group of scientists, providing a summary of the current scientific understanding of convective storms and the weather they produce, as well as showing how that understanding works in forecasting practice. It is loaded with outstanding color illustrations. 2001.

*Meteorological Monograph Series, Volume 28, number 50*; 570 pages, hardbound; ISBN 1-878220-41-1; AMS code MM50.

List price - \$110.00; AMS member price - \$90.00; AMS Student Member price \$75.00

[Severe Convective Storms table of contents](#)

### **Meteorology of the Southern Hemisphere**

**Edited by David J. Karoly and Dayton G. Vincent**

A comprehensive monograph of the meteorology of the Southern Hemisphere was originally published by the American Meteorological Society in 1972. That monograph was, of necessity, preliminary in nature because the available time series of observational data was short. In the quarter century that has passed since the first monograph, much has happened to warrant an updated edition: new observational techniques based on satellites, anchored and drifting buoys, and more ground-based stations have expanded the observational network to cover the whole hemisphere. The time is right, therefore, for a fresh look at the circulation features of the Southern Hemisphere, both for the atmosphere and oceans. 1999. *Meteorological Monograph Series, Volume 27, number 49*; 410 pages, hardbound; ISBN 1-878220-29-2; AMS code MM49.

List price - \$75.00; AMS member price - \$55.00

### **Stochastic Lagrangian Models of Turbulent Diffusion**

**By Howard C. Rodean**

This monograph is intended to give atmospheric scientists a basic understanding of the physical and mathematical foundations of stochastic Lagrangian models of turbulent diffusion.

1996. Meteorological Monograph Series, Volume 26, number 48; 84 pages, softcover; ISBN 1-878220-23-3; AMS Code MM48.

List price - \$60.00; AMS member price \$40.00

### **Mesoscale Modeling of the Atmosphere**

**Edited by Roger A. Pielke and Robert P. Pearce**

Provides an overview of several components of mesoscale modeling: boundary conditions, subgrid-scale parameterization, moisture processes, and radiation. Also included are mesoscale model comparisons using data from the U.S. Army's Project WIND (Winds in Non-uniform Domains).

1994. Meteorological Monograph Series, Volume 25, number 47; 167 pages, hardbound; ISBN 1-878220-15-2, ISSN 0065-9401; AMS code MM47.

List price - \$75.00; AMS member price - \$55.00

### **The Representation of Cumulus Convection in Numerical Models**

**Kerry Emanuel and David J. Raymond**

The monograph is divided into six parts. Part I provides an overview of the problem, including descriptions of cumulus clouds and the effects of ensembles of cumulus clouds on mass, momentum, and vorticity distributions. A review of closure assumptions is also provided. A review of "classical" convection schemes in widespread use is provided in Part II. The special problems associated with the representation of convection in mesoscale models are discussed in Part III, along with descriptions of some of the commonly used mesoscale schemes. Part IV covers some of the problems associated with the representation of convection in climate models, while the parameterization of slantwise convection is the subject of Part V. The monograph concludes with a single paperbound describing some recent and very promising efforts to use explicit numerical simulations of ensembles of convective clouds to test cumulus representations.

1993. Meteorological Monograph Series, Volume 24, number 46; 246 pages, hardbound; ISBN 1-878220-13-6, AMS Code MM46.

List price - \$75.00; AMS Member price - \$55.00

### **Precipitation Enhancement: A Scientific Challenge**

**Edited by Roscoe R. Braham, Jr.**

This volume had its origin in a workshop held at Park City, Utah, 23-25 May 1984. The objective of the workshop was to provide an opportunity for cloud physicists to assess the status of knowledge and understanding about the physics of precipitation formation in clouds and the response of clouds to glaciogenic seeding. All paperbounds were by invitation. Half of the time was given to discussion and debate sparked by 4 major review paperbounds and 14 short reports. Restriction of the workshop to scientific aspects of glaciogenic seeding for precipitation enhancement was intentional.

1986. Meteorological Monograph Series, Volume 21, number 43; 171 pages, illustrated, hardbound; ISBN 0-933876-65-3, AMS Code MM43.

List price - \$60.00; AMS Member price - \$45.00

### **Solar Radiation and Clouds**

**Ronald M. Welch, Stephen K. Cox, and John M. Davis**

The research reported in this monograph represents an attempt to explore the extreme values as well as the more probable values of the radiative characteristics of water and ice clouds in the solar wavelengths.

1980. Meteorological Monograph Series, Volume 17, number 39; 96 pages, illustrated, hardbound; ISBN 0-933876-49-1, AMS Code MM39.

List price - \$50.00; AMS member price - \$40.00

## Historical Monographs

### Lewis and Clark: Weather and Climate Data from the Expedition Journals

Edited by Vernon Preston



The Lewis and Clark Expedition (1803–06) systematically recorded weather and climate data during their 4,162-mile journey. This volume collects all such data from their various journals, describes the importance of this first-of-its-kind meteorological undertaking, and includes a color pictorial of the Lewis and Clark Trail. It will serve as a compelling resource for weather, history, and Lewis and Clark buffs alike, as well as for scientists looking back at weather and climate in the early 1800s. [Additional information](#). (PDF)

© 2007, 544 pages hardcover

ISBN 13: 978-1-878220-75-2

List: \$90; Member: \$70; AMS Order Code: LWSCLARK

### Eyewitness: Evolution of the Atmospheric Sciences

Robert G. Fleagle

This book describes how the atmospheric sciences were transformed in the span of the author's professional career from its origins in primitive weather forecasting to its current focus on numerical modeling of environmental change. It describes the author's observations of the role that the science of the atmosphere now plays in climate change and other issues of social and political policy.

2001. AMS Historical Monograph Series; 129 pages, hardbound; ISBN 1-878220-39-X; AMS Code EYE.

List price - \$75.00; AMS member price - \$55.00

### Reflections: A Memoir

David Atlas

Dave Atlas, one of the founding fathers of radar meteorology, solved many puzzles and invented numerous techniques that transformed a fledgling application into a vital scientific and operational tool. This is an entertaining book that combines recollections and commentary on the various stages of the author's career in the field of weather radar with his boundless enthusiasm for creativity and the sheer joy of discovery.

2001. Historical Monograph Series; 144 pages, hardbound; ISBN 1-878220-46-2; AMS Code REFLECTIONS.

List price - \$75.00; AMS member price \$55.00

### Weathering the Storm: Sverre Petterssen, the D-Day Forecast, and the Rise of Modern Meteorology

Edited by James R. Fleming

Meteorology today is the beneficiary of the fundamental work in weather analysis and forecasting of Sverre Petterssen (1898–1974), a giant in the field and an international leader in meteorology during its formative era. In this lively and insightful autobiographical memoir, written just before his death, Petterssen shares intimate memories from his childhood in Norway, his education and service with the famous Bergen school of meteorology, and his extensive experiences in polar forecasting and as head of the meteorology department at MIT. The crisis of World War II comes alive in his passionate recounting of how forecasts were made for bombing raids and special operations, including the contentious forecasts for D-Day. Sverre Petterssen's complete autobiographical memoir, published here for the first time in English, offers a fascinating view of a man, an era, and a science. Anyone interested in weather, World War II, the history of science, or Norwegian history will enjoy this book.

2001. 329 pages, hardbound, ISBN 1-878220-33-0, AMS Code WTS.

List price - \$75.00; AMS member price - \$55.00

### Thor's Legions: Weather Support to the U.S. Air Force and Army, 1937-1987

**John F. Fuller**

In this enlightening and compelling history of combat from World War II to the Vietnam conflict, author John F. Fuller describes the adventure that was the Air Weather Service and introduces its courageous family of forecasters who provided vital weather support for the nation's armed forces and made notable contributions of the field of meteorology. Learn about the controversial events leading up to the pressure-packed D-Day forecast and the invasion forecasts of Hiroshima and Nagasaki, and discover how weather support "can be the margin between the victor and the vanquished."

1990. 443 pages, illustrated, hardbound; ISBN 0-933876-88-2, AMS Code THOR.  
List price - \$75.00; AMS Member price - \$55.00

**Books****THE FORGIVING AIR: UNDERSTANDING ENVIRONMENTAL CHANGE, 2ND EDITION**

by **Richard C. J. Somerville**



Nearly seven billion people are collectively such a potent force that their influence on the global environment has begun to rival that of Mother Nature. Scientist Richard C. J. Somerville is a Distinguished Professor Emeritus at Scripps Institution of Oceanography, University of California, San Diego, and one of the authors of the most recent Intergovernmental Panel on Climate Change (IPCC) report. The 2007 Nobel Peace Prize was awarded in equal shares to the IPCC and Al Gore for bringing the science behind global change to the world. In *The Forgiving Air*, Somerville weaves those critical findings into a more accessible story, making the most important issues of our time understandable to all.

**"Richard Somerville is one of the world's top climate scientists.** He's also one of the clearest when it comes to explaining climate science and policy. His book is the ultimate resource for students, educators, and policy makers seeking to understand one of the most critical issues of our times."

— James Gustave Speth, dean of the Yale University School of Forestry and Environmental Studies and author of *The Bridge at the Edge of the World*

[Additional Information](#) (PDF)

© 2008, 224 pages paperback

ISBN 13: 978-1-878220-85-1

List: \$22; AMS Member: \$16 AMS Order Code: TFA

**The Callendar Effect**

by **James Rodger Fleming**



This is the untold story of the remarkable scientist who established the carbon dioxide theory of climate change. Guy Stewart Callendar discovered that global warming could be brought about by increases in the concentration of atmospheric carbon dioxide due to human activities, primarily through burning fossil fuels. He did this in 1938! Using never-before-published original scientific correspondence, notebooks, family letters, and photographs, science historian James Rodger Fleming introduces us to one of Britain's leading engineers and explains his life and work through two World Wars to his continuing legacy as the scientist who established *The Callendar Effect*.

[Additional information.](#) (PDF) AMS has received a SNAP EXCEL Gold Award for this publication. [Additional information about the award.](#) (PDF)

© 2007, 176 pages hardcover  
 ISBN 10: 1-878220-76-4; ISBN 13: 978-1-878220-76-9  
 List: \$34.95; Member: \$24.95; AMS Order Code: CLDR



### **Railroads and Weather: From Fogs to Floods and Heat to Hurricanes, the Impacts of Weather and Climate on American Railroading**

**Stanley A. Changnon**

"*Railroads and Weather* is a must-read for meteorologists wanting to understand the impact of their products on the rail community...as well as railroad operations personnel, and history buffs who just love trains."

—Richard A. Wagoner, National Center for Atmospheric Research

This is the first book to cover the impacts of weather on this massive industry. With 120 photos, this book covers major storms of the last century, as well as the evolution of the industry's planning and response strategies, and the equipment and technology they use to combat weather impacts. This book promises to be a favorite of meteorologists interested in weather impacts, as well as railroad and history buffs of all ages.

2006. 136 pages, hardcover; ISBN 10: 1-878220-73-X; ISBN 13: 978-1-878220-73-8; AMS Code RLRDS.

List price- \$29.95; AMS member price- \$24.95

### **Mid-Latitude Weather Systems**

**By T. N. Carlson**

Mid-Latitude Weather Systems is the first text to make extensive use of conventional weather charts and equations to fully illustrate the behavior and evolution of weather patterns. With the use of well-documented case studies, Pennsylvania State University Professor of Meteorology Toby Carlson has achieved a unique presentation of selected concepts, which facilitate a clear interpretation of this active and challenging area of study. Presenting a fusion between the mathematical and descriptive fields of meteorology and integrated coverage of synoptic and dynamic approaches, Mid-Latitude Weather Systems provides students with an invaluable course text and reference source to gain an unclouded appreciation of the underlying processes and behavior of mid-latitude weather patterns.

1998. 507 pages; softcover; ISBN 1-878220-30-6, AMS Code MLWS.

List price - \$52.00; AMS member price - \$42.00; AMS student member price - \$32.00

### **Hands-on Meteorology**

**Zbigniew Sorbjan**

*Hands-on Meteorology* presents the subject of atmospheric science in an exciting, intriguing, and entertaining way. Utilizing a "hands-on" approach, readers perform simple experiments that demonstrate concepts of basic meteorology: air pressure, heat, temperature, moisture, and wind. The experiments use common, everyday, inexpensive materials such as candles, bottles, cans, and balloons. *Hands-on Meteorology* also contains meteorological anecdotes, historical narratives, references to important cultural events, and biographical sketches of prominent scientists. This book is addressed to all those who are enthusiastic about learning and teaching about the atmosphere, weather, and climate and should prove entertaining for readers of all ages.

1996. 306 pages, paperbound; ISBN 1-878220-20-9, AMS Code HOM.

List price - \$26.95; AMS member price - \$21.00

## **Mesoscale Meteorology and Forecasting**

**Edited by Peter S. Ray**

In 1984, the American Meteorological Society, the Cooperative Institute for Mesoscale Meteorological Studies, and the National Oceanic and Atmospheric Administration cosponsored the Intensive Course on Mesoscale Meteorology and Forecasting, held in Boulder, Colorado. This volume is an edited version of the lectures, including complete illustrations and extensive bibliographic references. The 31 chapters consider all aspects of mesoscale meteorology. After an introduction that discusses mesoscale classifications and typical forecast problems, the volume is organized in sections on observing techniques and systems, internally generated circulations, mesoscale convective systems, externally forced circulations, modeling, and short-range forecasting techniques and technology. As a textbook of mesoscale meteorology it will serve both practicing and student meteorologists.

1986. 793 pages, illustrated, hardbound; ISBN 0-933876-66-1, AMS Code MESOMET.  
List price - \$76.25; AMS Member price - \$66.25; Student price - \$56.25

## **The Weather Factor**

**David M. Ludlum**

From the colonists' first encounter with the American climate to the launch of the first weather satellite in space, weather has influenced battles, wars, elections, sports events, balloon launches, airship flights, and many other history-making events. Want to know what part the weather played in ending the Siege in Yorktown? Why President Harrison caught his fatal cold on Inauguration Day? Which was the worst-ever Saturday for football all across the country? David Ludlum, America's acknowledged dean of weather history, answers these questions and describes many more historical weather events and their consequences.

Houghton Mifflin Company. 1984. 275 pages, illustrated, paperbound; ISBN 0-395-36144-3, AMS Code WEAFAAC.  
Price - \$30.00

## **The Life Cycles of Extratropical Cyclones**

**Edited by Melvyn A. Shapiro and Sigbjørn Grønås**

This monograph contains expanded versions of the invited papers presented at the International Symposium on the Life Cycles of Extratropical Cyclones, held in Bergen, Norway, 27 June–1 July 1994. The symposium coincided with the 75th anniversary of the introduction of Jack Bjerknes's frontal-cyclone model presented in his seminal article "On the Structure of Moving Cyclones." The first nine chapters present a historical overview of extratropical cyclone research and forecasting from the early eighteenth century into the mid-twentieth century. The succeeding chapters review and present contemporary research on the theory, observations, analysis, diagnosis, and prediction of extratropical cyclones. The sequence of presentations transcends the planetary scale to mesoscale scales of motion. This monograph should be of interest to historians of meteorology, researchers and forecasters. It contains material appropriate for teaching courses in advanced undergraduate and graduate meteorology. The chapter bibliographies provide a valuable source for key references on many aspects of extratropical cyclones.

1999. 359 pages, hardbound, ISBN 1-878220-35-7, AMS Code LEC.  
List price - \$75.00; AMS member price - \$55.00

## **Reference**

### **Glossary of Meteorology, Second Edition, 2000**

#### **Glossary of Weather and Climate**

**Edited by Ira W. Geer**

A glossary of over 3,000 terms on weather and climate for a general audience. Produced under the Project ATMOSPHERE initiative, the development of the *Glossary of Weather and Climate* was inspired by increasing contemporary interests in the

atmosphere and global change and by the absence of a timely and reasonable comprehensive glossary for the public. The objective of the glossary is to provide a readily understandable, up-to-date reference for terms that are frequently used in discussions or descriptions of meteorological and climatological phenomena. In addition, the glossary includes definitions of related oceanographic and hydrologic terms.

1996. 272 pages, hard- and paperbound; ISBN 1-878220-19-5, ISBN 1-878220-21-7 (paperbound), AMS Code WCGLOS.

List price - \$26.95; AMS member price - \$21.00; hardcover - \$34.95

## Lecture

### **Atmospheric Radiation: Progress and Prospects, Proceedings of the Beijing International Radiation Symposium - Beijing, China, August 26-30, 1986**

**Edited by Kuo-Nan Liou and Zhou Xiuji**

A collection of paperbounds presented at the Beijing International Radiation Symposium. The Symposium provided a forum for scientific exchanges among scientists in China and abroad in the fields of atmospheric radiation, remote sensing, and climate applications. The presentations and discussions at the Symposium focused on the challenges and prospects for atmospheric radiation in relation to remote sensing, weather prediction and climate studies.

Co-published with Science Press. 1987. 699 pages, hardbound; ISBN 7-03-000208-3/P\*34, AMS Code BEIJING.

Price - \$60.00

### **Radar in Meteorology: Battan Memorial and 40th Anniversary Radar Meteorology Conference**

**Edited by David Atlas**

This fully illustrated volume covers the history of radar meteorology, deals with the issues in the field from both the operational and the scientific viewpoint, and looks ahead to future issues and how they will affect the current atmosphere. With over 200 contributors, the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field.

1990. 806 pages, hardbound; ISBN 0-933876-86-6, AMS Code RADMET.

List price - \$111.00; AMS member price - \$91.00; Student price - \$75.00

### **Workshop on the Planetary Boundary Layer - Boulder, Colorado, August 14-18, 1978**

**Edited by J.C. Wyngaard**

This illustrated volume contains seven of the nine "cornerstone" talks featured at the workshop. Emphasis is placed on the means by which specialists in PBL research may help modelers of more general systems, as well as how large-scale, general model results help stimulate specialists. Includes summary of major PBL experiments. 1980.

322 pages, softbound; ISBN 0-933876-51-3, AMS Code WPBL.

List price - \$45.00; AMS member price - \$35.00

### **Lectures on Air Pollution Modeling**

**Edited by Akula Venkatram and John C. Wyngaard**

This volume is concerned with the physics and the application of air-pollution modeling on scales up to about 50 km. Its eight chapters, comprising the diverse points of view of seven authors, remain substantially in their original, lecture-note form. The result is not a smoothly flowing monograph but instead a richly textured, lively collection of the seasoned thoughts and perspectives of experienced researchers and practitioners.

1988. 390 pages, illustrated, hardbound; ISBN 0-933876-67-X, AMS Code APM.

List price - \$60.00; AMS Member price - \$50.00

## **Lectures on Air Pollution and Environmental Impact Analyses**

**Edited by Duane A. Haugen**

This publication of the AMS contains all the lectures that were presented at the AMS Workshop on Meteorology and Environmental Assessment held in Boston, MA on September 29-October 3, 1975. Topics include: The dispersion of materials in the atmospheric boundary layer, atmospheric dispersion models for environmental pollution applications, plume rise predictions, turbulent diffusion and pollutant transport in shoreline environments, urban diffusion problems, atmospheric transformations of pollutants, observational systems and techniques in air pollution meteorology, and federal government requirements for environmental impact assessment.

1982. 296 pages, illustrated, hardbound; ISBN 0-933876-42-4, AMS Code LAPEIA.  
List price - \$45.00; AMS member price - \$40.00

## **Proceedings of the First Sino-American Workshop on Mountain Meteorology, Beijing**

**Edited by Elmar R. Reiter, Zhu Baozhen, and Qian Yongfu**

Scientific paperbounds on mountain meteorology, especially as it affects Asia and China. Topics include: Planetary and large-scale effects of mountains on general circulation and climate, observational aspects, theoretical aspects, and numerical modeling, mesoscale effects of mountains on heavy rainfall and several local storms, observational aspects, and mountain-valley circulations and their effects on meteorological fields.

Co-published with Science Press (Beijing). 1983. 18-23 May 1982, 699 pages, illustrated, hardbound; ISBN 0-933876-58-0, AMS Code SINO.  
Price - \$57.50

## **Proceedings of International Symposium on the Qinghai-Xizang Plateau and Mountain Meteorology**

**Edited by Xu Yigang**

In this proceeding there are paperbounds presented by the participants at a meeting held in Beijing, China, 20-24 March 1984, including those on the following important aspects relating to mountain meteorology: the field observation, the dynamic and thermal effects of the mountains on the general circulation, the results obtained through the numerical models with the large-scale topography, and the circulation systems on the Plateau.

Co-published with Science Press (Beijing). 1986. 1036 pages, illustrated, hardbound ; ISBN 0-933876-61-0, AMS Code TIBET.  
Price - \$62.50

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### **The 1938 Hurricane**

**William E. Minsinger**

To mark the 50th anniversary of this destructive hurricane, the American Meteorological Society, in cooperation with the Blue Hill Meteorological Observatory, published this lavishly detailed historical volume complete with over 120 archival photographs and weather charts. This handsome publication serves not only as a valuable historical reference, but also a reminder that, however infrequent, the

powerful force of the hurricane is a genuine threat in New England.

Co-published with Blue Hill Meteorological Observatory. 1988, 128 pages, hardbound;  
ISBN 9-993382-16-7

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This volume covers a variety of basic topics, including the fundamental physical forces governing atmospheric motions, turbulence, chaos theory and predictability, and numerical weather prediction

Published by Wiley-Interscience. 2003. 973 pages, hardbound; ISBN 0-471-21490-6;  
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