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# Brief Bibliography

## METEOROLOGICAL BOOKS



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U.S. DEPARTMENT OF COMMERCE  
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**Meteorological Books:  
A Reference List of Books in Print**

**February 1990**

In contrast to some other fields of science, the number of English-language books available in the field of meteorology is not large. Most of those in print as of January 1990 are represented in this reference list. Of the 77 titles included here, some 43 are textbooks, 14 are topical monographs for the professional, and 20 are aimed at the general reader.

Compilation of the list began with a brief survey of university meteorology departments, which reported that the 24 titles listed in the first section are currently being used in the classroom at those institutions. The books are arranged alphabetically by author within each section of the bibliography, and the entries include the International Standard Book Number (ISBN) to make ordering easier. Books for which call numbers are given will be found in the collections of the NOAA Central Library.

Questions about this material may be addressed to the Reference Desk, NOAA Central Library, 6009 Executive Boulevard, Rockville, MD 20852, or call (301) 443-8330.

## TEXTBOOKS USED AT SEVERAL SURVEYED UNIVERSITIES

1. **Meteorology Today: An Introduction to Weather, Climate & the Environment** / Ahrens, C. Donald.  
3rd ed.  
St. Paul, MN : West Publishing, 1988.  
581 p.  
ISBN: 0-314-62477-5.  
Call no.: QC861.2.A3 1988
2. **Meso-Scale Atmospheric Circulations** / Atkinson, B. W.  
New York : Academic Press, 1981.  
ISBN: 0-12-065960-3.  
Call no.: QC880.4.A8A8
3. **Atmosphere, Weather, and Climate** / Barry, Roger G.; Chorley, R. J.  
4th ed.  
London : Methuen, 1987.  
432 p.  
ISBN: 0-416-70420-4; 0-416-70430-1.  
Call no.: QC861.2.B36 1987
4. **Radar Observation of the Atmosphere** / Battan, Louis J.  
Rev. ed.  
Chicago, Ill. : University of Chicago Press, 1981.  
ISBN: 0-226-03919-6; 0-226-03921-8.  
Call no.: QC973.5.B3 1973
5. **Aeronomy of the Middle Atmosphere** / Brasseur, Guy; Solomon, Susan.  
2nd rev. ed. Kluwer Academic, 1986.  
ISBN: 90-277-2343-5; 90-277-2344-3.  
Pub. by Reidel Holland.  
Call no.: QC881.2.S8B73 1986
6. **Basic Meteorology Exercise Manual** / Chelius, Carl R.; Frentz, Henry J., ed.  
Dubuque, IA : Kendall-Hunt, 1984.  
224 p.  
ISBN: 0-8403-3340-4.
7. **The Ceaseless Wind: An Introduction to the Theory of Atmospheric Motion** / Dutton, John A.  
Repr. of 1976 ed.  
New York : Dover, 1986.  
640 p.  
ISBN: 0-486-65096-0.  
Call no.: QC880.D84 1986
8. **An Introduction to the World's Oceans** / Duxbury, Alison; Duxbury, Alyn C.  
Dubuque, IA : Wm C Brown, 1988.  
432 p.  
ISBN: 0-697-04272-3; 0-697-04273-1; 0-697-05742-9.

9. **Atmosphere-Ocean Dynamics** / Gill, Adrian.  
New York : Academic Press, 1982.  
ISBN: 0-12-283520-4; 0-12-283522-0.  
Call no.: GC190.G54
  
10. **Numerical Prediction and Dynamic Meteorology** /  
Haltiner, George J.; Williams, Roger Terry, joint author.  
2nd ed.  
New York : Wiley, 1980.  
ISBN: 0471059714.  
Call no.: QC996.H35 1980
  
11. **Introduction to Dynamic Meteorology** / Holton, James R.  
2nd ed.  
New York : Academic Press, 1979.  
ISBN: 0-12-354360-6.  
Call no.: QC880.H65 1979
  
12. **Planets & Their Atmospheres: Origin & Evolution** / Lewis,  
John S.; Prinn, Ronald G.  
New York : Academic Press, 1983.  
ISBN: 0-12-446580-3; 0-12-446582-X.  
Call no.: QB981.L398
  
13. **An Introduction to Atmospheric Radiation** / Liou Kuo-Nan  
ed.  
New York : Academic Press, 1980.  
ISBN: 0-12-451450-2.  
Call no.: QC912.3.L56
  
14. **Basic Meteorology** / McIlveen, R.  
New York : Van Nostrand Reinhold, 1986.  
ISBN: 0-442-31769-7.
  
15. **Meteorology** / Miller, Albert; Anthes, Richard.  
5th, rev. ed.  
Columbus, OH : Merrill Publishing, 1985.  
192 p.  
ISBN: 0-675-20411-9.
  
16. **Principles of Environmental Physics** / Monteith, J. L.;  
Unsworth, M.  
2nd ed.  
New York : Routledge Chapman & Hall, 1989.  
228 p.  
ISBN: 0-7131-2981-6; 0-7131-2931-X.
  
17. **Some Applications of Statistics to Meteorology** /  
Panofsky, Hans and Glenn W. Brier.  
University Park, PA : Pennsylvania State University Press,  
1965.  
224 p.
  
18. **AMS Intensive Course on Mesoscale Meteorology and  
Forecasting** / Ray, Peter S.  
Boston, MA : American Meteorological Society, [1984?].  
4 vol. looseleaf

19. **A Short Course in Cloud Physics** / Rogers, R. R.  
3rd ed.  
New York : Pergamon, 1989.  
xiv, 293 p.  
ISBN: 0-08-034864-5; 0-08-034863-7.  
Call no.: QC921.5.R63 1989
20. **Physical Fundamentals of Remote Sensing** / Schanda, E.  
New York : Springer-Verlag, 1986.  
200 p.  
ISBN: 0-387-16236-4.  
Call no.: G70.4.S34
21. **Atmospheric Chemistry and Physics of Air Pollution** /  
Seinfeld, John H.  
New York : Wiley, 1986.  
ISBN: 0471828572.  
Call no.: TD193.S44
22. **Nonlinear Hydrodynamic Modeling: A Mathematical  
Introduction** / Shirer, H. N., editor.  
New York : Springer-Verlag, 1987.  
xvi, 546 p.  
ISBN: 0-387-17557-1.
23. **An Introduction to Boundary Layer Meteorology** / Stull,  
Roland B.  
Dordrecht ; Boston, MA : Kluwer Academic Publishers, 1988.  
666 p.
24. **Atmospheric Science: An Introductory Survey** / Wallace,  
John M.; Hobbs, Peter.  
New York : Academic Press, 1977.  
467 p.  
ISBN: 0-12-732950-1.  
Call no.: QC861.2.W4

#### OTHER TEXTBOOKS

1. **Fundamentals of Meteorology** / Battan, Louis J.  
2nd ed.  
Englewood Cliffs, NJ : Prentice-Hall, 1984.  
336 p.  
ISBN: 0-13-341123-0.  
Call no.: QC861.2.B38 1984
2. **Weather** / Battan, Louis J.  
2nd ed.  
Englewood Cliffs, NJ : Prentice-Hall, 1985.  
ISBN: 0139476989; 0139476806 (pbk.).
3. **Introduction to the Atmosphere Lab Manual** / Cole, Alan.  
Lake Geneva, WI : Paladin House, 1980.  
ISBN: 0-88252-110-1.

4. **Introduction to Meteorology** / Cole, Franklyn W.  
3rd ed.  
New York : Wiley, 1980.  
505 p.  
ISBN: 0-471-04705-8.  
Call no.: QC861.2.C64 1980
5. **Severe & Unusual Weather** / Eagleman, Joe R.  
Rev. ed.; Repr. of 1983 ed. Trimedia Pub, 1988.  
372 p.  
Call no.: QC941.E17
6. **Severe & Unusual Weather Discussion Guide** / Eagleman, Joe R.  
Dubuque, IA : Kendall-Hunt, 1982.  
112 p.  
ISBN: 0-8403-2777-3.
7. **Introductory Physics of the Ocean & Atmosphere** / Hasse, L.; Dobson, F.  
Dordrecht ; Boston, MA : Kluwer Academic, 1985.  
ISBN: 90-277-2139-4.  
Call no.: QC880.H35
8. **Weather & Climate: Text-Exercises-Weather Maps** / Hidore, John J.  
Champaign, IL : Park Printing Co, 1984.  
238 p.  
ISBN: 0-941226-05-0.
9. **Physical Meteorology** / Houghton, Henry G.  
Cambridge, MA : MIT Press, 1985.  
450 p.  
ISBN: 0-262-08146-6.  
Call no.: QC861.2.H68
10. **The Atmosphere: An Introduction to Meteorology** / Lutgens, Frederick; Tarbuck, Edward.  
4th ed.  
Englewood Cliffs, NJ : Prentice-Hall, 1989.  
528 p.  
ISBN: 0-13-050196-4.  
Call no.: QC861.2.L87 1989
11. **Elements of Meteorology** / Miller, Albert; Thompson, Jack C.; Peterson, Richard E.; rev. by Haragan, Donald R.  
4th ed.  
Columbus, OH : Merrill, 1983.  
448 p.  
ISBN: 0-675-20005-9.
12. **Basic Meteorology, an Introduction to the Science** / Moses, L.; Tomikel, John.  
Elgin, PA : Allegheny, 1981.  
130 p.  
ISBN: 0-910042-39-X.

13. **Probability, Statistics, & Decision Making in Meteorology** / Murphy, Allan H.; Katz, Richard W., ed.  
Orig. ed.  
Boulder, CO : Westview, 1985.  
450 p.  
ISBN: 0-86531-152-8; 0-86531-153-6.  
Call no.: QC861.2.P76
14. **Dynamic Meteorology** / Panchev, S.  
Dordrecht ; Boston, MA : Kluwer Academic, 1984.  
ISBN: 90-277-1744-3.  
Call no.: QC880.P2813 1985
15. **Fundamentals of Atmospheric Dynamics & Thermodynamics** / Riegel, C.  
Teaneck, NJ : World Scientific Pub, 1990.  
330 p.  
ISBN: 9971-978-86-5; 9971-978-87-3.
16. **Climatology - Meteorology** / Rudman, Jack.  
Syosset, NY : National Learning, 1988.  
ISBN: 0-8373-6659-3; 0-8373-6609-7.
17. **From Weather Vanes to Satellites: an Introduction to Meteorology** / Spiegel, Herbert; Gruber, Arnold.  
New York : Wiley, 1983.  
ISBN: 0471864013.  
Call no.: QC861.2.S64
18. **Laboratory Manual in Weather & Climate** / Weinzierl, Edward.  
Lake Geneva, WI : Paladin House, 1980..  
ISBN: 0-88252-006-7.
19. **The Atmosphere & Ocean: A Physical Introduction** / Wells, N.  
New York : Taylor & Francis, 1986.  
348 p.  
ISBN: 0-85066-348-2; 0-85066-259-1.  
Call no.: QC861.2.W45 1986

#### SPECIAL TOPICS

1. **Middle Atmosphere Dynamics** / Andrews, David G.; Holton, James R.; Leovy, Conway B., editors.  
Orlando, FL : Academic Press, 1987.  
489 p.  
ISBN: 0-12-058575-8; 0-12-058576-6.  
Call no.: QC881.2.M53A53
2. **Evaporation into the Atmosphere: Theory, History & Applications** / Brutsaert, Wilfried.  
Boston, MA : Kluwer Academic, 1982.  
308 p.  
ISBN: 90-277-1247-6.  
QC915.6.B78

3. **History of the Earth's Atmosphere** / Budyko, M. I.; Ronov, A. B.; Yanshin, A. L.  
New York : Springer-Verlag, 1987.  
150 p.  
ISBN: 0-387-17235-1.  
Call no.: QC861.2.B8313 1987
4. **Problems & Prospects in Long & Medium Range Weather Forecasting** / Burridge, D. M.; Kallen, E. editors.  
New York : Springer-Verlag, 1983.  
290 p.  
ISBN: 0-387-12827-1.  
Call no.: QC995.P884
5. **Scientific Application of Baseline Observations of Atmospheric Composition** / Ehhalt, Dieter; Pearman, Graeme; Galbally, Ian eds.  
Boston, MA : Kluwer Academic, 1987.  
ISBN: 90-277-2533-0.  
Call no.: QC879.6.S35 1987
6. **Radiation in a cloudy atmosphere ; [translated from the Russian by UAT Ltd.] Radiatsiia v oblachnoi atmosfere** / Feigel'son, E. M.  
Dordrecht, Neth. : D. Reidel Pub. Co. ; Sold and distributed in the U.S.A. and Canada by Kluwer Academic Publishers, 1984.  
ISBN: 9027718032.  
Call no.: QC911.R2913
7. **Rainbows, Halos & Glories** / Greenler, Robert.  
New York : Cambridge University Press, 1980.  
304 p.  
ISBN: 0-521-23605-3.  
Call no.: QC975.2.G73
8. **Clouds: Their Formation, Optical Properties & Effects** / Hobbs, Peter V.; Deepak, A. editors.  
New York : Academic Press, 1981.  
ISBN: 0-12-350720-0.  
Call no.: QC921.48.C56
9. **Thunderstorm Morphology & Dynamics** / Kessler, Edwin, editor.  
2nd, rev. & enl. ed.  
Norman, OK : University of Oklahoma Press, 1986.  
432 p.  
ISBN: 0-8061-1936-5.  
Call no.: QC968.T4 1983 v. 2
10. **Thunderstorms** / Magono, Choji.  
New York : Elsevier, 1980.  
262 p.  
ISBN: 0-444-15179-6.  
Call no.: QC968.M33



11. **Hurricanes, Storms & Tornadoes: Geographic Characteristics & Geological Activity** / Nalivkin, D.; Bhattacharya, B. B., translator.  
New Delhi : Amerind Publishing Co. for NOAA and the National Science Foundation., 1982.  
609 p.  
ISBN: 90-6191-408-6.  
Call no.: QC941.N3513
12. **Mesoscale Meteorological Modeling: An Introductory Survey** / Pielke, Roger A.  
Orlando, FL : Academic Press, 1984.  
ISBN: 0-12-554820-6.  
Call no.: QC981.P46
13. **The Hurricane & Its Impact** / Simpson, Robert H.; Riehl, Herbert.  
Baton Rouge, LA : Louisiana State University Press, 1981.  
xxviii, 420 p.  
ISBN: 0-8071-0688-7.
14. **Sea Fog** / Wang, B.  
New York : Springer-Verlag, 1985.  
336 p.  
ISBN: 0-387-13150-7.

#### POPULAR WORKS

1. **Atmosphere** / Allen, Oliver ed ... et al.  
Alexandria, VA : Time-Life, 1983.  
176 p.  
ISBN: 0-8094-4338-4; 0-8094-4337-6.  
Call no.: QC861.2.A35
2. **What Does a Meteorologist do?** / Compton, Grant.  
Dodd, Mead, 1981.  
ISBN: 0396079318.
3. **Rare Halos, Mirages, Anomalous Rainbows, & Related Electromagnetic Phenomena** / Corliss, William R.  
Glen Arm, MD : Sourcebook, 1984.  
244 p.  
ISBN: 0-915554-12-7.  
Call no.: QC975.9.A1R29
4. **Tornadoes, Dark Days, Anomalous Precipitation & Related Weather Phenomena** / Corliss, William R.  
First U.S. ed.  
Glen Arm, MD : Sourcebook, 04/1983.  
196 p.  
ISBN: 0-915554-10-0.  
Call no.: Ref QC870.C67
5. **Powers of Nature** / Crump, Donald J., editor.  
Washington, DC : National Geographic, 1978.  
ISBN: 0-87044-234-1; 0-87044-239-2.

6. **Weather & Forecasting** / Dunlop, Storm; Francis Wilson.  
New York : Collier, 1987.  
160 p.  
ISBN: 0-02-013700-1.  
Call no.: QC861.2.D85 1987
7. **One Thousand One Questions Answered about the Weather** /  
Forrester, Frank H.  
Repr. of 1957 ed.  
New York : Dover, 1982.  
448 p.  
ISBN: 0-486-24218-8.
8. **Weather & Its Work** / Lambert, David; Hardy, Ralph.  
Facts on File, 1985.  
64 p.  
ISBN: 0-87196-987-4.
9. **Know about Weather.** / Linke, Siegfried.  
Academy Chicago Pubs, 1979.  
28 p.  
ISBN: 0-905778-06-5.
10. **Atmospheric phenomena readings from Scientific  
American** / Lynch, David K.  
San Francisco : W. H. Freeman, 1980.  
ISBN: 0716711656, 0716711664 (pbk.).
11. **Sunsets, Twilights, & Evening Skies** / Meinel, Aden;  
Meinel, Marjorie.  
New York : Cambridge University Press, 1983.  
200 p.  
ISBN: 0-521-25220-2.  
Call no.: QC975.2.M44
12. **Weather** / Padial, Antonio; Roderman, Winifred H.; Beier,  
Ellen; McCloud, Rawn, illustrators.  
Janus Books, 1982.  
48 p.  
ISBN: 0-915510-79-0.
13. **The Times Books World Weather Guide** / Pearce, E. A.;  
Smith, Gordon.  
New York : Times Books, 1984.  
480 p.  
ISBN: 0-8129-1123-7.  
Call no.: QC982.P43
14. **Weathering the Wilderness: The Sierra Club Guide to  
Practical Meteorology** / Reifsnnyder, William E.  
San Francisco : Sierra, 1980.  
288 p.  
ISBN: 0-87156-266-9.  
Call no.: QC981.45.R44

15. **Weather: A User's Guide to the Atmosphere** / Sanders, Ti.  
B & L Publishing, 1985.  
280 p.  
ISBN: 0-89651-906-6; 0-89651-907-4.
16. **The Weather Is Front Page News** / Sanders, Ti.  
B & L Publishing, 1984.  
224 p.  
ISBN: 0-89651-902-3; 0-89651-903-1.  
Call no.: QC983.S26
17. **A Field Guide to the Atmosphere** / Schaefer, Vincent J.;  
Day, John A.; Day, Christy E., illustrator.  
Boston, MA : Houghton Mifflin, 1983.  
360 p.  
ISBN: 0-395-24080-8; 0-395-33033-5.  
Call no.: Ref QC863.S346
18. **One Thousand One Questions Answered about Hurricanes,  
Tornadoes & Other Natural Air Disasters** / Tufty, Barbara.  
Repr. of 1970 ed. Dover, 1987.  
416 p.  
ISBN: 0-486-25455-0.
19. **Storm** / Whipple, A. B.  
Alexandria, VA : Time-Life, 1982.  
ISBN: 0-8094-4312-0.  
Call no.: QC941.W53
20. **A Day in the Life of a Meteorologist** / Witty, Margot;  
Witty, Ken; Sanacore, Stephen, photographer.  
Troll Associates, 1981.  
32 p.  
ISBN: 0-89375-450-1; 0-89375-451-X.