

# RESOURCE LISTING FOR WEATHER AND CLIMATE INSTRUCTION

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## 1. INTRODUCTION AND SCOPE

This document is intended to assist those who teach weather and climate at any level from pre-school through introductory college level courses, by listing some of the available instructional resources.

While an effort was made to select easily obtainable materials, some materials may not be available everywhere or may have become obsolete. This list is for informational purposes only and inclusion of an item on the list by no means

represents an endorsement of that product. Some good source materials may have been neglected inadvertently.

Permission is hereby granted for the reproduction of portions or all of this document for non-commercial educational use in schools on the condition that this source is acknowledged.

This information is also available on the web at <http://www.nssl.noaa.gov/resources/>

## 2. CAREER GUIDANCE MATERIAL

The American Meteorological Society (AMS) provides career guidance information to individuals contemplating a career in the atmospheric and oceanic sciences. Many of these materials are also available from the University Corporation for Atmospheric Research (UCAR). School counselors should be made aware of these materials.

AMS on web: [www.ametsoc.org](http://www.ametsoc.org)

UCAR on web: [www.ucar.edu/edu/](http://www.ucar.edu/edu/)

- *A Career Guide for the Atmospheric Sciences*

Updated in 2000, the guide describes the nature of the atmospheric sciences and career opportunities. Single copies free.

Online at [www.ametsoc.org/AMS/AtmosCareers/](http://www.ametsoc.org/AMS/AtmosCareers/)

- *The Changing Atmosphere - Challenges and Opportunities*

American Meteorological Society (AMS) and University Corporation for Atmospheric Research (UCAR), 24 pp. Single copies free.

- *1998 Curricula in the Atmospheric, Oceanic, Hydrologic, and Related Sciences*

This book is published jointly by the American Meteorological Society (AMS) and University Corporation

for Atmospheric Research (UCAR). It lists accredited institutions in the U.S. and Canada which have academic programs granting degrees from the bachelor to doctoral level. It also includes departments, course names, faculty members, and thesis titles. Order from the AMS (\$40 includes shipping and handling).

- *How to Be a Meteorologist*

World Meteorological Organization (WMO), WMO #257, 16 pp. A career pamphlet. Single copies \$5.00. [www.wmo.ch](http://www.wmo.ch).

The AMS sponsors several undergraduate awards and scholarships in the atmospheric sciences. Check the *Bulletin of the American Meteorological Society* for eligibility criteria, or contact the AMS for information and application forms at:

American Meteorological Society  
45 Beacon Street  
Boston, MA 02108-3693  
Phone: (617) 227-2425  
Fax: (617) 742-8718  
Web: [www.ametsoc.org](http://www.ametsoc.org)

### 3. GENERAL INSTRUCTIONAL MATERIALS

#### American Meteorological Society (AMS)

The AMS has been involved with educational efforts at all levels, and with increasing public awareness of weather-related issues. The AMS web address is [www.ametsoc.org](http://www.ametsoc.org).

##### •Current AMS Education Board leaders:

Dr. Susan Avery  
CIRES (Cooperative Institute for Research in  
Environmental Science)  
Campus Box 449  
University of Colorado  
Boulder, CO 80309  
Phone: (303) 492-7943

Dr. Kevin A. Kloesel, 2000 Chair  
Oklahoma Climatological Survey  
Sarkeys Energy Center, Suite 1210  
100 East Boyd  
Norman, OK 73019-1012  
Phone: (405) 325-2541  
Fax: (405) 325-2550

##### •Local chapters of the AMS

*Guide to Establishing School and Public Education  
Activities*, (second edition), 1989, AMS, Boston, 21  
pp.

Smith, D.R., and J.T. Snow, 1990: Guide to establishing  
school and public education activities. *Bulletin of the  
American Meteorological Society*, **71**, 1760-1766.

##### •Conference Reports on popular meteorological education

AMS, 1989: Preprints, Second International Conference  
on School and Popular Meteorological and  
Oceanographic Education. Crystal, VA, 171 pp.

AMS, 1993: Preprints, Third International Conference on  
School and Popular Meteorological and  
Oceanographic Education, Toronto, ON, 218 pp.

AMS, 1994: Preprints, Third Symposium on Education,  
Nashville, TN, 161 pp.

AMS, 1995: Preprints, Fourth Symposium on Education,  
Dallas, TX, 211 pp.

AMS, 1996: Preprints, Fifth Symposium on Education,  
Atlanta, GA, 228 pp.

AMS, 1997: Preprints, Sixth Symposium on Education,  
Long Beach, CA, 176 pp.

AMS, 1998: Preprints, Seventh Symposium on Education,  
Phoenix, AZ, 194 pp.

AMS, 1999: Preprints, Eighth Symposium on Education,  
Dallas, TX.

AMS, 2000: Preprints, Ninth Symposium on Education,  
Long Beach, CA.

##### •Articles on meteorological education

Kern, E.L., J.T. Snow, and M.E. Akridge, 1993: Impact on  
pre-college atmospheric education. *Bulletin of the  
American Meteorological Society*, **74**, 655-660.

Passow, J.J., and D.R. Smith, 1991: A new front in  
weather education. *Science Teacher*, **58**, 18-21.

Smith, D.R., J.T. Snow, T.C. Spangler, D.D. Houghton,  
and I.W. Geer, 1992: Meeting report on the 1992 AMS  
Symposium on Education. *Bulletin of the American  
Meteorological Society*, **73**, 795-799.

Smith, D.R., L.M. Bastiaans, R.S. Weinbeck, M.J. Passow,  
P.J. Smith, N.J. Rydell, H.P. Warthan, T.C. Spangler,  
and A.E. MacDonald, 1994: Meeting report on the  
Third AMS Symposium on Education. *Bulletin of the  
American Meteorological Society*, **75**, 1241-1247.

Snow, J.T., and D.R. Smith, 1990: Report on the Second  
International Conference on School and Popular  
Meteorological and Oceanographic Education.  
*Bulletin of the American Meteorological Society*, **71**,  
190-198.

Thompson, O.E., 1986: Summary of the AMS Workshop  
on meteorology as a unifying education strategy for  
improving pre-college science, mathematics, and  
technology education. *Bulletin of the American  
Meteorological Society*, **67**, 426-428.

Ulanski, S.L., 1993: An analysis of the liberal arts in  
introductory meteorology courses. *Bulletin of the  
American Meteorological Society*, **74**, 2203-2209.

Walker, J.M., editor, 1985: Weather education.  
Proceedings, First International Conference on School  
and Popular Meteorological Education. Royal  
Meteorological Society, Bracknell, Berkshire, England,  
264 pp.

##### •Project Atmosphere

Project Atmosphere is an educational initiative of the AMS,  
designed to foster improved atmospheric education in  
grades K-12. A partnership of scientists, educators,  
government, and industry focuses on attracting students  
into continued study of science, mathematics, and  
technology. One of the features of Project Atmosphere  
has been the formation of the Atmospheric Education  
Resource Agent (AERA) network. At least one master  
teacher in each state has been selected to act as a  
resource agent. A current listing can be obtained from:

Ira Geer  
American Meteorological Society  
Project Atmosphere  
1200 New York Avenue, Suite 410  
Washington, DC 20005

Additional background information on Project Atmosphere  
and the AERA network:

Houghton, D.D., 1990: Editorial: American Meteorological  
Society education initiatives. *Bulletin of the American  
Meteorological Society*, **71**, 648.

Houghton, D.D., 1990: Editorial: American Meteorological Society education initiatives expansion. *Bulletin of the American Meteorological Society*, **72**, 1551.

Smith, D.R., and I.W. Geer, 1991: Establishment of the American Meteorological Society's Atmospheric Education Resource Agents (AERA) program. *Bulletin of the American Meteorological Society*, **72**, 612-15.

Smith, D.R., I.W. Geer, R.S. Weinbeck, and P.R. Chaston, 1991: Project Atmosphere: AMS/NOAA 1991 workshop for teachers. *Bulletin of the American Meteorological Society*, **72**, 1547-1550.

Smith, D.R., I.W. Geer, R.S. Weinbeck, and J.T. Snow, 1993: Project Atmosphere: AMS/NOAA 1992 workshop for teachers. *Bulletin of the American Meteorological Society*, **74**, 421-424.

Smith, D.R., I.W. Geer, R.S. Weinbeck, J.T. Snow, and W.H. Beasley, 1994: AMS Project Atmosphere - University of Oklahoma 1993 workshop for teachers. *Bulletin of the American Meteorological Society*, **75**, 95-100.

Project Atmosphere has produced or distributes educational materials on:

Clouds

Sunlight and Seasons

Weather Radar: Detecting Precipitation

Water Vapor and the Water Cycle

Global Climates

Hazardous Weather

Radar Reflections: Soul of a Storm - Video (24 minutes).

#### •DataStreme

This major precollege teacher enhancement initiative involves a 13-week distance learning course, with the goal of training Weather Education Resource Teachers. Interested teachers should apply for selection as participants for either the spring or fall semesters. Participants must be pre-college teaching professionals who live near an area served by a Local Implementation Team, a cadre of professional meteorologists or master teachers who have participated in Project Atmosphere training. Selected participants receive graduate-level academic credit for the course on the study of the atmospheric environment through the use of electronically-transmitted weather data and learning materials, combined with Study Guide readings and investigations.

## American Association for the Advancement of Science (AAAS)

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AAAS is actively involved with all aspects of science, mathematics, and technology education. Position papers, reference, resource, and review materials have been produced to assist teachers at all grade levels and in many academic disciplines.

Directorate for Education & Human Resource Programs  
AAAS  
1333 H Street, N.W.

Washington, DC 20005-4792

Phone: (202) 326-6670

Fax: (202) 371-9849

Web: [www.aaas.org](http://www.aaas.org)

- AAAS prepares an annual reference guide to more than 2500 programs and educational organizations, including 200 museums and science-technology centers. *The Sourcebook for Science, Mathematics, and Technology Education* is published annually for \$12.95 (\$10.35 for members) from:

AAAS Books

Box 735, Dept. A55

Waldorf, MD 20604

Phone: (301) 645-5643.

- General book and software reviews, references, and announcements from the AAAS:

*Science Books and Films*. ISSN 0098-3422X. A bimonthly publication of AAAS, 1515 Massachusetts Avenue, N.W., Washington, DC 20005.

*Science Books and Films' Best Books for Children 1988-91, 1992*. AAAS Publication 92-30H, 300 pp. ISBN 0-87168-505-1.

*The Best Books and A-V Materials for Children, 1988*.

Compiled and edited by S.M. O'Connell, V.J. Montenegro, and K. Wolff. AAAS Publication 82-11, 335 pp. ISBN-0-87168-316-4.

- Project 2061 is a AAAS project intending to improve science, mathematics, and engineering education:

*Physical and Information Sciences and Engineering: Report of the Project 2061 Phase I Physical and Information Sciences and Engineering Panel*, Washington, DC, 41 pp.

*Science for All Americans. A Project 2061 Report on Literacy Goals in Science, Mathematics, and Technology*, 1989, 217 pp.

## American Geological Institute

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The American Geological Institute, through its National Center for Earth Science Education, has developed the following position statement concerning the teaching of earth science, including weather and climate:

National Center for Earth Science, 1991: *Earth Science Education for the 21st Century: A Planning Guide*. American Geological Institute, Alexandria, VA, 34 pp.

American Geological Institute

National Center for Earth Science Education

4220 King Street

Alexandria, VA 22302

Phone: (703) 379-2480

## Educators Progress Service

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The following materials are appropriate for instruction at the indicated grade levels. Free instructional material is at:

Educators Progress Service

214 Center Street

Randolph, WI 53956-1497  
Phone: (414) 326-3126

Berger, J.L. (editor), 1993: *Educators Grade Guide to Free Video Tapes (40th edition)*. Educators Progress Service, 561 pp. ISBN 0-87708-255-3.

Diffor, J.C., and E.N. Diffor (editors), 1993: *Educators Guide to Free Filmstrips and Slides (45th edition)*. Educators Progress Service, 169 pp. ISBN 0-87708-252-9.

Haider, T.J. (editor), 1994: *Educators Grade Guide to Free Teaching Aids (40th edition) with Supplement by K.S. Nehmer*. Educators Progress Service. ISBN 0-87708-265-0.

Haider, T.J. (editor), 1993: *Educators Guide to Free Curriculum Materials (50th edition)*. Educators Progress Service, 384 pp. ISBN 0-87708-254-5.

Nehmer, K.S. (editor), 1994: *Guide to Free Computer Materials (12th edition)*. Educators Progress Service, 487 pp. ISBN 0-87708-261-8.

Parent, M.P. (editor), 1993: *Educators Guide to Free Materials (102nd edition)*. Educators Progress Service, 543 pp. ISBN 0-87708-250-2.

Staff editors, 1994: *Educators Guide to Free Science Materials (35th edition)*. Educators Progress Service, 289 pp. ISBN 0-87708-268-5.

## Independent Study Courses

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Several institutions offer independent study or correspondence courses in atmospheric and oceanic sciences. The introductory general-education courses have few prerequisites, and provide an opportunity for people to broaden their weather knowledge who do not have an opportunity to attend more traditional college-level courses. A listing of such courses is in the atmospheric sciences section of the index in:

National University Continuing Education Association, 1992: *The independent study catalog: A guide to continuing education through correspondence courses*. Fifth Edition, One Dupont Circle, Washington, DC, 281 pp. ISBN 1-56079-138-1.

Participating institutions include:

Ball State University, Muncie, IN 47306  
Indiana University, Bloomington 47405  
Oklahoma State University, Stillwater 74078  
Pennsylvania State University, Univ. Park 16802  
Portland State University, Portland, OR 97207  
University of Arizona, Tucson 85719  
University of Georgia, Athens 30602  
University of Kansas, Lawrence 66045-2602  
University of Missouri, Columbia 65211  
University of Utah, Salt Lake City 84112  
University of Washington, Seattle 98195  
University of Wisconsin-Extension, Madison 53706  
Weber State College, Ogden, UT 84408-4005.

## National Center for Atmospheric Research (NCAR)

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NCAR, with the support of the National Science Foundation, is actively involved with several educational projects. NCAR is part of a larger organization, the University Corporation for Atmospheric Research (UCAR). The NCAR and UCAR web address is [www.ucar.edu](http://www.ucar.edu).

### •COMET

The Cooperative Program for Operational Meteorology, Education, and Training (COMET), is administered by UCAR and sponsored by the National Weather Service. COMET includes the development of computer-based learning modules through its Distance Learning Program. The computer-based training modules come in a variety of formats including laser disc, CD, and web training modules. A complete list can be found at: [www.comet.ucar.edu/modules/](http://www.comet.ucar.edu/modules/). Order online ([www.comet.ucar.edu/sales/](http://www.comet.ucar.edu/sales/)) or contact Liz Lessard at 303-497-8475 or write care of UCAR/COMET, P.O. Box 3000, Boulder, CO 80307.

### •NCAR Global Change Instruction Program

Modules have been developed by the NCAR Advanced Study Program for college-level interdisciplinary studies of global climatic change, and earth and environmental sciences. They cover earth science to include meteorology, and are for undergraduate non-science majors.

NCAR Information and Education Outreach Program  
P.O. Box 3000  
Boulder, CO 80307-8600

### •SkyMath

A program under development with mathematics educators to enhance the teaching of mathematics and related disciplines at the junior high school level through the use of current weather information from UNIDATA.

UCAR/UNIDATA Program Center  
P.O. Box 3000  
Boulder, CO 80307-8600  
Phone: (303) 497-8644  
Web: [www.unidata.ucar.edu/staff/blynds/Skymath.html](http://www.unidata.ucar.edu/staff/blynds/Skymath.html)

### •UNIDATA

This program provides current weather information to member universities and subscribers

UCAR  
P.O. Box 3000  
Boulder, CO 80307-8600  
Phone: (303) 497-8644  
Email: [support@unidata.ucar.edu](mailto:support@unidata.ucar.edu)

## National Earth Science Teachers Association (NESTA)

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NESTA is a nonprofit educational organization whose purpose is the advancement, stimulation, extension, improvement, and coordination of earth science education at all educational levels.

NESTA Membership (\$15.00)  
P.O. Box 53213  
Washington, DC 20009-3213

NESTA publishes *The Earth Scientist* four times a year. Each issue specializes in geology, astronomy, meteorology, or oceanography. It is edited by:

Jan Woerner  
35201 Hollow Creek Drive  
Yucaipa, CA 92399-5905

Many states also have both NSTA and NESTA organizations, and have publications. Contact NSTA or state education departments for more information.

## National Science Teachers Association (NSTA)

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NSTA is a professional organization of science teachers. In addition to the periodicals in Section 5, NSTA materials include *NSTA's Supplement of Science Education Suppliers*, which has addresses of audiovisual producers, publishers, and science equipment suppliers.

1742 Connecticut Ave., N.W.  
Washington, DC 20209-1171

## National Weather Association (NWA)

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NWA is a nonprofit organization chartered to promote the interests of weather forecasting. The NWA annually awards Sol Hirsch Educational Grants to K-12 teachers to improve the education of students in meteorology. Information about the application process is at:

6704 Wolke Court  
Montgomery, AL 36116-2134  
Phone: (334) 213-0388  
Email: NatWeaAsoc@aol.com  
Web: www.nwas.org

## Other Federal Agencies

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Several Federal agencies have established education programs which provide teachers with resource materials in the form of audiovisual aids, lesson plans, activity booklets, and worksheets. Typically, these materials can be obtained at nominal cost from resource centers which may also produce newsletters or other information. Agencies with weather-related material are:

- Department of Agriculture  
Global Change Programs Office, Room 60 LL  
1621 North Kent Street  
Arlington, VA 22209  
Phone: (703) 235-9018  
Fax: (703) 235-9046

- NASA  
The NASA Educational Affairs Division has established a NASA Teacher Resource Center Network comprised of:  
Teacher Resource Centers (TRCs).  
Regional Teacher Resource Centers (RTRCs).  
Central Operation of Resources for Educators (CORE).  
Additional NASA education resources:  
NASA Space Link.  
NASA Select Television.  
NASA Education Satellite Videoconferences.  
Web: [www.hq.nasa.gov/office/coddef/education](http://www.hq.nasa.gov/office/coddef/education).

- Universities Space Research Association (USRA)  
USRA and NASA have atmospheric sciences at:  
4950 Corporate Drive, Suite 100  
Huntsville, AL 35806  
Phone: (205) 895-0582  
Fax: (205) 895-9222

## Regional School Programs

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Several innovative pre-college educational programs in atmospheric science have been developed by school districts. Some programs are affiliated with neighboring university departments or national organizations.

- EARTHSTORM  
Earth-System Education for Science Teachers Using the Oklahoma Regional Mesonet (EARTHSTORM):  
Oklahoma Climatological Survey  
100 East Boyd, Suite 1210  
Norman, OK 73019

- LEARN  
Laboratory Experience in Atmospheric Research (LEARN) at NCAR:  
P.O. Box 3000  
Boulder, CO 80307-3000

- WEATHERWATCH  
Dept. of Atmospheric Science  
Marshak Hall, CCNY  
138th Street at Convent Avenue  
New York, NY 10031

- Florida EXPLORES  
Experimental Program for Learning the Operations and Resources of Environmental Satellite (EXPLORES):  
Dr. Paul Ruscher  
Department of Meteorology  
Florida State University  
Tallahassee, FL 32306

## 4. AUDIOVISUAL MATERIALS

Weather and climate concepts can be presented effectively using visuals in many different formats, such as videos, slides, and posters. Examples of atmospheric phenomena reinforce the learning process.

Selected address lists of audio-visual suppliers can be found in the annual issue of the National Science Teachers Association's (NSTA) *Science Education Suppliers Supplement*, a supplement to *The Science Teacher* and other NSTA publications. For information, contact the NSTA at 1840 Wilson Blvd., Arlington, VA 22201-3000.

Other indexes and reference sources of educational audio-visual materials include several indexes published by the National Information Center for Educational Media (NICEM):

- *Film and video finder*, 1991, Third edition, Medford, NJ, 3 volumes. ISBN 0-937458-20-0.
- *Audiocassette and compact disc finder*, 1993, Third edition, Medford, NJ, 1419 pp. ISBN 0-937458-22-7.
- Klisz, A.M., (editor), 1994: *The video source book*. 16th edition, Gale Research, Detroit, MI, 2 volumes, 3988 pp. ISSB 0748-0881; ISBN 0-8103-85368 (set).
- AAAS publications (Section 3).
- Annual guides produced by Educators Progress Service, Randolph, WI (Section 3).

### 4.1. VIDEOCASSETTES

Title	Source	Date	Length (minutes)	Cost
<b>A</b>				
After The Warming, Episode One: The Fatal Flower	Ambrose Video Publishing Co.	1990	56	
After The Warming, Episode Two: Secret Of The Deep	Ambrose Video Publishing Co.	1990	56	
The Atmosphere In Motion	United Learning	1995	21	
The Atmosphere, Climate And Weather	CLEARVUE/eav	–	48	\$70.00
The Awesome Power: Floods	NOAA-NWS	1988	17	
<b>B</b>				
Behind The Scenes Weathercast	United Learning	1995	6	
Bill Nye (each tape has 2 shows + poster)				
Earth's Seasons, Climates	Disney Educational Productions	1998	52	\$49.95
Storms, Fluids	Disney Educational Productions	1998	52	\$49.95
Water Cycle, Oceanography	Disney Educational Productions	1998	52	\$49.95
Waves, Wind	Disney Educational Productions	1998	52	\$49.95
Atmosphere, Flight	Disney Educational Productions	1998	52	\$49.95
Blown Away: Tornadoes	USA Teleproductions	1996	22	
Bringing Home The Weather	Weather Channel	–	48	
<b>C</b>				
Can We Control The Weather?	McGraw-Hill Text Films	–	25	
The Chase	BVE Productions, Inc.	–	42	\$23.90
Chase Highlights 98	William Reid	1998	60	\$19.95
The Chasers Of Tornado Alley	Prairie Pictures	–	48	\$19.95
Chase To Live 6-15-91	Gene Rhoden	1992	40	
Chasing El Niño	NOVA	–	60	\$29.95
Chasing The Wind	Plano, Texas TV Network	1991	27	
Climate & Seasons	Schlessinger Video	1998	–	\$29.95
The Climate Puzzle	PBS-TV	–	55	
Climate, Weather, And People	Hawkhill Associates	1997	172	
Clouds: Messengers Of The Weather	Educational Filmstrip and Video	1997	50	
Clouds & Precipitation	Coronet Films & Video	1985	15	
Clouds And What They Mean	CLEARVUE/eav	–	15	\$65.00
Cracking The Ice Age	NOVA/PBS-TV*	1998	60	\$29.95
Cyclone!	National Geographic*	1998	50	
<b>D</b>				
Danger's Edge (Hurricanes)	Weather Channel	1991	25	
The Deadliest Storm	KSNW-TV, Wichita, KS	1991	91	
Deadly Waters: Flood Of '94	Historic Publications	–	40	\$23.00

Drought And Flood: Two Faces Of One Coin	Films for the Humanities&Science	1990	18	
Dynamic Earth	The Learning Channel	--	52	\$34.95
<b><u>E</u></b>				
Earth Science for Children: All About the Weather Cycle	Schlessinger Science Library	2000	23	\$29.95
Earth Science in Action: The Water Cycle	Schlessinger Science Library	2000	23	\$39.95
Electrical Skies	Joel Hartless	1998	15	\$24.95
El Niño: Drought To Deluge	Weather Channel	1992	30	
El Niño & The Link Between Oceans, Atmosphere, And Weather	CLEARVUE/eav	–	22	\$70.00
End of the Golden Weather	Bonneville Worldwide Entertain.	1998	–	\$19.95
The Enemy Wind (tornadoes)	Weather Channel	1992	25	
Everyday Weather: Hurricanes	SUNY-Brockport & Weather Ch.	1986	24	
Everyday Weather: The Sense Of Weather	SUNY-Brockport & Weather Ch.	1989	29	
Everyday Weather: Thunderstorms	SUNY-Brockport & Weather Ch.	1987	29	
Eye of the Storm: Hurricanes	Weather Channel	–	48	
Eyewitness: Weather	Dorling Kindersley Video	1996	13	
<b><u>F</u></b>				
Five Great Weather Disasters	Weather Channel	1997	50	
Flash to Bang	United Learning	1995	19	
Flood!	NOVA/PBS-TV*	1998	60	\$29.95
Flood: Raging Planet	Teacher's Video Company	1998	50	\$29.95
Force Four (Hurricanes)	Weather Channel	1990	23	
Forty-six Tornadoes	Berger Productions	–	–	\$33.00
<b><u>G</u></b>				
Global Climate	National Geographic Television	1998	–	\$99.00
Global Warming: Future Quest	Hawkhill Associates, Inc.	–	30	\$84.55
Global Winds	Coronet Film & Video	1985	15	
The Great Chicago Flood	Explorer*	1998	30	\$29.95
Great New Jersey Coastal Storm Of the 20th Century	G. Hoffman	–	90	\$24.00
Greenhouse Effect: Is It Hot Enough For You?	PBS-TV	–	55	
<b><u>H</u></b>				
Hands-on Weather/Weather Experiments	United Learning	1998	19	\$79.95
Hands-on Weather 2/More Weather Experiments	United Learning	1999	19	\$79.95
The Hidden Dangers: Low-Water Crossing	NOAA-NWS	1996	20	
The Hugo Video Scrapbook	WSOC-TV, Charlotte, NC	1989	60	
Hurricane	NOAA/NWS	1984	29	
Hurricane!	NOVA/PBS-TV	1998	60	\$29.95
Hurricane Andrew: The Awful Howl	Steve Wackholder	–	50	\$25.00
Hurricane Emily	Richard Horodner	–	45	\$24.95
Hurricanes Fran & Bertha	Richard Horodner	–	50	\$23.00
Hurricane Hunters	WRIN-TV	1996	50	
Hurricane Iniki	Historic Publications	–	56	\$28.00
Hurricane '95	BVE Productions Inc.	–	60	\$23.90
Hurricane Opal	Steve Wackholder	–	50	\$25.00
Hurricanes: Earth's Greatest Storm	Scott Resources, Inc.	1991	20	
Hurricanes: It's Not Just Another Storm	FEMA/Videx Corp.	1991	20	
Hurricane Strikes	Jim Leonard	–	–	\$25.00
Hurricane: The Unseen Tragedy	Dept. of Planning & Natural Resources, U.S. Virgin Islands	1990	30	
A Hurricane:Through The Eyes Of Children	How the WeatherWorks	1992	42	\$99.95
Hurricanes: The Greatest Storm On Earth	WGN-TV	1994	22	
The Hydrodologic Cycle: Water In Motion	CLEARVUE/eav	–	20	\$80.00
<b><u>I</u></b>				
In the Bear's Cage	Jack Corso	–	120	\$34.95
Investigating Weather	United Learning	1997	80	
It Sounded Like A Freight Train	WGN-TV, Chicago	1991	22	



It Sounded Like A Freight Train	WGN-TV, Chicago	1992	22	
<b><u>J</u></b>				
The Job Of A Meteorologist	United Learning	1995	19	
<b><u>K</u></b>				
Killer Tornadoes	Mdacy Enterprise Group., Inc.	1996	90	
Killer Weather	TLC and Discovery Channels	1998	55	\$29.95
<b><u>L</u></b>				
Last Chance Chase Video	William Reid	–	–	\$27.90
Lightning	NOVA/PBS-TV*	1998	60	\$29.95
Lightning Safety 101	National Lightning Safety Institute	1999	58	
The Long Hot Winter	Weather Channel	–	48	
<b><u>M</u></b>				
Mr. Wizard's World: Air & Water Wizardry	NASA	–	44	
<b><u>N</u></b>				
NASA: Airmen And The Weather	Ferde Grofe Films	1998	–	\$29.95
Nashville, Tennessee Tornado Survivors/Inside Story	A&E	1998	50	\$19.95
Nashville Tornado	WTUV-TV, Nashville, Tennessee	1998	22	
Natural Disasters	CBS Eyewitness*	1998	35	\$29.95
Nature's Fury	National Geographic*	1998	50	\$29.95
Nature's Rage	Readers Digest	1997	120	\$29.95
<b><u>O</u></b>				
Ocean Blue: Water And Weather	Films for the Humanities&Science	1996	20	
Oceans, Weather And Climate	CLEARVUE/eav	–	15	\$70.00
Oklahoma City Tornadoes	KWTV, Channel 9, Oklahoma City	1998	44	
Our Sea Of Clouds	How the WeatherWorks	1992	16	\$89.95
<b><u>P</u></b>				
The Palm Sunday Tornadoes: 30 Years Later	WSJV-TV, Elkhart, Indiana	1995	22	
Planet Earth: Climate Puzzle	Teacher's Video Company -		58	
Polar Weather	Ambrose Video	1998	–	\$99.95
PROFS: Flash Floods At Cheyenne, Wyo.	NOAA/NWS-ERL	1986	11	
PROFS: Severe Weather Highlights	NOAA-ERL	1987	18	
<b><u>R</u></b>				
Radar Reflections: Soul Of A Storm AMS/Project Atmosphere		1994	24	
Raging Planet: Avalanche	Discovery Channel+	1998	50	\$29.95
Raging Planet: Flood	Discovery Channel+	1998	27	\$29.95
Raging Planet: Hurricane	Discovery Channel*+	1998	27	\$29.95
Raging Planet: Lightning	Discovery Channel*+	1998	27	\$29.95
Raging Planet: Tidal Wave	Discovery Channel+	1998	50	\$29.95
Raging Planet: Tornado	Discovery Channel*+	1998	27	\$29.95
The Restless Sky	NASA	1989	16	
The Return Of The Child: The Effects Of El Niño	Films for the Humanities&Science	1990	26	
Rain Or Shine: Understanding Weather	CLEARVUE/eav	–	15	\$70.00
Romancing The Storm	Legendary Storms Video	–	60	\$34.95
<b><u>S</u></b>				
Savage Skies: Fire And Rain	Teacher's Video Company	1998	55	\$29.95
Savage Skies: Monsters Of The Deep	Teacher's Video Company	1998	57	\$29.95
Savage Skies: Riders On The Storm	Teacher's Video Company	1998	60	\$29.95
Savage Skies: The Winter's Tale	Teacher's Video Company	1998	58	\$29.95
Severe Storms	Scott McPartland	–	30	\$20.00
Secrets Of The Tornado (2 videos)	Environmental Films	1999	120	\$49.95
Secrets Of The Unknown: Tornadoes	MPI-Home Video	1989	30	
Severe Weather	United Learning	1995	15	
Severe Weather Safety	United Learning	1996	24	
Severe Weather Safety: Watch For The Warning	United Learning	1996	25	
Sky On Fire	The Weather Channel*	1998	38	\$29.95
Space Science in Action: Earth's Atmosphere	Schlessinger Science Library	1999	23	\$39.95
Spencer, South Dakota Tornado	Bill Reid	1998	60	\$19.95

Storm Alert: Hurricane In Hawaii	Oahu Civil Defense/HTV	1994	18	
Storm Chase Highlights	Jim Leonard	–	–	\$28.00
Storm Spotter's Video Field Guide	Dave Oliver	–	–	\$26.95
Storms	Lucerne Media	1992	24	
Stormwatcher	Gene Rhoden	–	45	\$31.95
Storm Watcher	Texas Severe Storm Association	–	30	\$27.90
Stormwatcher: A Video Spotters Guide	Gene Rhoden	1994	90	
Survival In A Winter Storm	Local Civil Defense	–	27	
<b><u>T</u></b>				
Target Tornado: The Science Of Storm Chasing	The Weather Channel	–	45	\$29.95
Tell Me Why - Water And Weather	Tell Me Why Sales Company	1997	13	
Telling the Weather	National Geographic Television	1998	–	\$79.00
10 Inches Of Partly Cloudy	WGN-TV, Chicago	1993	22	
Terrible Tuesday	NOAA-NWS	1984	24	
Thunderstorms: Nature's Fury	Scott Resources, Inc.	1991	20	
Tornado	Environment Canada & Crown Video Duplication, Inc.	1987	25	
Tornado!	NOVA/PBS-TV*	1998	60	
Tornado Alert: What You Need To Know	Films for the Humanities&Science	–	45	\$89.95
Tornado Alive	Tornado Alive	1986	–	
Tornado Alley	The History Channel*	1998	50	\$29.95
Tornado Chasers	A&E*	1998	50	\$29.95
Tornadoes!!	Norman Berger Productions	–	–	\$32.95
Tornadoes: The Entity	Teacher's Video Company	1998	60	\$29.95
Tornado! Hurricane! Flood!: Wonders Of Weather	Discovery Channel*	1998	60	\$29.95
Tornado -The Science Of Storm Chasing	The Weather Channel*	1998	45	\$29.95
Tornado Spotters Training Guide	NOAA-NWS	1988	22	
Tornado Video Classics	Tornado Project	1992	120	
Tornado Video Classics	Tornado Project	1992	39	
Tornado Video Classics	Tornado Project	1992	22	
Tornado Video Classics III	Tornado Project	1996	120	
Tornado Warning 2	Cressen, TX	–	–	\$34.90
Torrents of Death	The History Channel*	1998	50	\$29.95
Twister	NOAA Films Loan	–	27	
Twister	Warner Brothers*	1998	113	\$29.95
Twister Chaser 1996	William Reid	1996	60	\$19.95
Twister: Fury on the Plain	Twister	–	60	\$18.95
<b><u>U</u></b>				
Understanding Weather	Discovery Channel**	--	54	\$34.95
The Unforgiving Sky (Water/drought)	Weather Channel	1991	23	
<b><u>V</u></b>				
Violent Side of Nature	Scott McPartland	–	60	\$30.00
Violent Storms	Coronet	–	15	
<b><u>W</u></b>				
Warming Warning	Media Guild	1985	52	
War And Weather	Ambrose Video	1998	–	\$99.95
Water Vapor: The Unseen Weather AMS/Project Atmosphere		–	16	
Weather	CBS Eyewitness*	1998	35	\$29.95
Weather: A View From Space, Vol 1: El Nino	Space/Earth Science Technologies	1999	17	\$19.95
Weather Chronicles	Chip Taylor Communications	–	30	\$29.95
Weather Class With Dr. Neil Frank	Lucerne Films	1992	30	
Weather And Climate	Troll Associates	1996	88	
Weather: Come Rain, Come Shine	National Geographic Television	1998	–	\$79.00
Weather Dynamics	Barr Films	1990	20	
Weather For Children Series, K-4				
All About Meteorology	Schlessinger Science Library	2000	23	\$29.95
All About Rain, Snow, Sleet and Hail	Schlessinger Science Library	2000	23	\$29.95
All About Climate & Seasons	Schlessinger Science Library	2000	23	\$29.95

All About Wind and Clouds	Schlessinger Science Library	2000	23	\$29.95
Weather Forecasting	International Video Network	1996	14	
Weather Fundamentals Series, Grades 5-8				
Climate & Seasons	Schlessinger Science Library	2000	23	\$29.95
Clouds	Schlessinger Science Library	2000	23	\$29.95
Hurricanes & Tornadoes	Schlessinger Science Library	2000	23	\$29.95
Meteorology	Schlessinger Science Library	2000	23	\$29.95
Rain & Snow	Schlessinger Science Library	2000	23	\$29.95
Wind	Schlessinger Science Library	2000	23	\$29.95
Weather Geokit (3 tapes)	National Geographic Television	1998	–	\$199.00
Weather's Greatest Disasters-Superstorms	Crocus Entertainment, Inc. 1990		30	
Weather Problems And The Environment	Lucerne Films	1992	12	
Weather Report Girl Part 1	Right Stuf	–	–	\$24.99
Weather Safe Training Tape	United Learning, Sealls	1996	20	
Weather Systems	Tell Me Why Sales Co.	1994	40	\$39.99
Weather Systems (Spanish)	Tell Me Why Sales Co.	1996	40	
Weather Systems In Motion	Coronet	1985	15	
Weather Watchers	Instructional Video	1996	8	
When Lightning Strikes	WGN-TV, Chicago	1992	22	
Which Way Weather	Bo Peep Productions	1995	15	
Why Planes Crash (Downbursts)	CBS-TV	1988	12	
Without Warning: Galveston Hurricane	Weather Channel	–	48	
Wonders Of Weather: Deserts	Ambrose Video	1998	100	\$99.99
Wonders Of Weather: Forecasting	Ambrose Video	1996	100	
Wonders Of Weather: Hurricane	Ambrose Video	1997	100	
Wonders Of Weather: Lightning	Ambrose Video	1998	100	\$99.99
Wonders Of Weather: Mystery Of Fog	Ambrose Video	1996	100	
Wonders Of Weather: Rain and Flood	Ambrose Video	1998	100	\$99.99
Wonders Of Weather: Snow	Ambrose Video	1998	100	\$99.99
Wonders Of Weather: Signs In The Sky	Ambrose Video	1996	100	
Wonders Of Weather: Splendor In The Sky	Ambrose Video	1996	100	
Wonders Of Weather: Things That Fall	Ambrose Video	1998	100	\$99.99
Wonders Of Weather: Tornado	Ambrose Video	1997	100	
Wonders Of Weather: The Weather Machine	Ambrose Video	1996	100	
Wonders Of Weather: Wind And Waves	Ambrose Video	1996	100	
Wonders Of Weather (6 tapes)	Ambrose Video	1998	–	\$495.00
The Wrath Of Typhoon Omar	Jim Leonard	–	–	\$24.95
<b>Y</b>				
Year In Review	The Weather Channel*	1995	50	
Year In Review	The Weather Channel*	1996	50	

\*Available from Teacher's Discovery

\*Available from Teacher's Video Company

## 4.2. ADDRESSES FOR VIDEO DISTRIBUTORS

Berger Productions  
1740 View Point Terrace  
P.O. Box 935  
Cannon Beach, FL 97110-0935  
Phone: (800) 433-7396

BVE Productions, Inc.  
P.O. Box 2249  
Livonia, MI 48151-2249  
Phone: (800) 632-1700

Chip Taylor Communications  
15 Spollett Drive  
Derry, NH 08038-5728  
Phone: (800) 867-2447

Coronet/MTS Film and Video  
108 Wilmot Road  
Deerfield, IL 60015

Jack Corso  
P.O. Box 650  
Harrison, NY 10528

EBE  
Encyclopedia Britannica Education Corp.  
Films and Video  
425 North Michigan Avenue  
Chicago, IL 60611  
Phone: (800) 621-3900

Environmental Films  
The Tornado Project  
Box 302  
St. Johnsbury, VT 05819

Films for the Humanities & Science  
P.O. Box 2053  
Princeton, NY 08543-5126

Joel Hartless  
P.O. Box 778  
Joshua, TX 76058  
Phone: (888) 405-0073

Hawkhill Associates, Inc.  
125 E. Gilman St.  
P.O. Box 1029  
Madison, Wisconsin 53701-1029  
Phone: (800) 422-4295

Historic Publications  
P.O. Box 21497  
Charleston, NC 29413-1496

G. Hoffman  
P.O. Box 1341  
Beach Haven, NJ 08008  
Phone: (609) 492-3815

Richard Horodner  
10423 S.W. 153 Street  
Miami, FL 33157

How the WeatherWorks  
301 Creek Valley Lane  
Rockville, MD 20850  
Phone: (301) 762-7669  
Phone: (orders only) 1-800-8CLOUD9

KWTV Channel 9  
7401 North Kelley  
Oklahoma City, OK 73111  
Phone: (405) 843-6641

Legendary Storms Video  
Kill Devil Hills, NC 27948  
Phone: (919) 261-3881

Jim Leonard  
P.O. Box 720283  
Norman, OK 73070

McGraw-Hill Films  
330 West 42nd Street  
New York, NY

Scott McPartland  
63-127 Fitchett Street  
Rego Park, NY 11374

NASA  
Lyndon B. Johnson Space Center  
Photographic Technical Laboratory  
Audiovisual Office, Code JL-13  
Houston, TX 77058

National Lightning Safety Institute  
P.O. Box 778  
Louisville, CO 80027-0778  
Phone: (303) 666-8817  
Fax: (303) 666-8786  
Email: rkithil@ix.netcom.com  
Web: www.lightningsafety.com

National Severe Storms Laboratory (NSSL)  
1313 Halley Circle  
Norman, OK 73069  
Web: www.nssl.noaa.gov

Dave Oliver  
P.O. Box 3372  
Amarillo, TX 79116  
Phone: (800) 383-1010

Prairie Pictures  
P.O. Box 122020  
Arlington, TX 76012

William Reid  
5920 Pat Avenue  
Woodland Hills, CA 91367

Gene Rhoden  
611 Ridgedale Drive  
Richardson, TX 75080

Space/Earth Science Technologies  
www.sest.com

Teacher's Discovery  
Phone: (888) 977-2436  
Fax: (602) 860-8650

Teacher's Video Company  
Phone: (800) 262-8837  
Fax: (602) 860-8650

Texas Severe Storm Association  
P.O. Box 122222  
Arlington, TX 76012

Tornado Alive  
Box 111  
Minneapolis, MN 55440

Tornado Warning 2  
P.O. Box 309-w  
Cressen, TX 76035

Twister  
P.O. Box 461-T  
New York, NY 10023

Steve Wackholder  
1501 NE 191st. Street #407  
North Miami Beach, FL 33179

Wards Modern Learning Aids  
P.O. Box 302  
Rochester, NY 14603

United Learning, Inc.  
633 W. Howard Street  
P.O. Box 48718  
Niles, IL 61714-0718  
Phone: (800) 424-0362

WGBH-TV  
P.O. Box 2284  
South Burlington, VT 05407-2284

### 4.3. SLIDES

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Sets of 35-mm slides are available from the following sources. Many sets have an accompanying teacher manual, and some have an audiocassette to use the slide set in an automatic or filmstrip mode. This listing does not include slide sets for instructors who adapt a text for classroom use; they are available from book sales representatives or publishers.

•*Cloud Types*

Ward's Natural Science Establishment, Inc.  
5100 West Henrietta Road  
P.O. Box 92912  
Rochester, NY 14692-9012

•*The Everyday Weather Project*

Six slide sets plus narrative audiocassettes from the State University of New York at Brockport:

1. Sensing and Analyzing the Weather
2. Weather Systems
3. Weather Forecasting
4. Weather Satellites
5. Weather Radar
6. Hazardous Weather: Hurricanes

•*A Look at the Tornado and Other Local Storms*

A 63-slide program produced by the National Disaster Preparedness Program, National Weather Service, 1982, Catalog #A08135.

National Audiovisual Center  
Order Section  
General Services Administration  
Washington, DC 20409

•*Meteorology*

Five meteorology slide sets have been prepared by:  
JLM Visuals  
Grafton, WI 53024

•*Natural Hazards*

17 slide sets depicting natural hazards around the world have been prepared by NGDC. Each set of 20 slides

covers one of the following topics: Earthquakes, hurricanes, landslides, tsunamis, typhoons, and volcanoes. Costs are \$18 to \$40 per set. Teachers may order sets of multiple-choice questions (with answers) free of charge, from:

National Geophysical Data Center (NGDC)  
NOAA, Code E/GCI  
325 Broadway  
Boulder, CO 80303  
(303) 497-6277

•*The Stories Clouds Tell*

Scenes that appear in the text reference by M.A. LeMone in Section 5.1 are available for \$49.95 from:

Project Atmosphere  
American Meteorological Society  
1701 K Street, N.W., Suite 300  
Washington, DC 20006-1509

•*Storm Spotter Slide Sets*

36 slides with transcript are available from:

Gene Rhoden  
611 Ridgedale  
Richardson, TX 75080

•*Stormwatcher*

Four slide sets on severe weather are available from:

Tim Marshall  
4041 Bordeaux Circle  
Flower Mound, TX 75028-7050

•*Urban Climate*

An 80-slide set is available from:

Fred Bartenstein  
Dayton Climate Project  
City Manager's Office  
P.O. Box 22  
Dayton, OH 45410

## 4.4. OVERHEAD TRANSPARENCIES

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Sets of ready-to-use transparencies are available for weather-related subjects. This list does not include transparency sets tailored to a given textbook and furnished by the book publisher.

### •*Earth Science on File*

A loose-leaf ring binder with line diagrams for instructional purposes. Permission is granted to copy, except if the resulting work is to be sold. It contains a section titled 'Air and Oceans.'

Facts on File, Inc.  
460 Park Avenue South  
New York, NY 10016

### •*Overhead Transparency Manual*

Contains 20 overhead transparencies with the same graphics as the *Mirage Wall Chart* in the next section.

### •*USA Today/AMS Transparency Set*

Project Atmosphere (AMS) and *USA Today* produced a 30-transparency set from *The Weather Book* by Jack Williams. Available from:

American Meteorological Society  
Project Atmosphere  
1200 New York Avenue, Suite 410  
Washington, DC 20005

## 4.5. WALL CHARTS AND POSTERS

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Large, multicolored wall charts and posters can be integrated into teaching weather units and purchased at a modest cost. Most show examples of cloud types.

### •*The Atmosphere*

55 by 33-inch poster compiled by K. Foley, \$14.50. ISBN 90-72167-01-5.

### •*The Global Climate*

54 by 34-inch poster compiled by M. Tankee and J. V. Gulike, 1989, \$14.50. ISBN 90-72167-03-1.

One or both of these posters are available through the AMS; discounts for groups of 10 copies or more. Published by Mirage Publishing in The Netherlands.

American Meteorological Society  
45 Beacon Street  
Boston, MA 02108-3693  
Phone: (617) 227-2425  
Web: www.ametsoc.org

### •*Clouds: A Guide to the Sky*

A.L. Rangno, 3rd Edition, 1989, \$9.00. Available from two sources:

Sky Guide  
P.O. Box 30027  
Greenwood Station  
Seattle, WA 98103-0027  
Phone: (206) 782-8485

Wind and Weather  
Mendocino, CA 95460

### •*Cloud Chart Collection*

Developed by How the WeatherWorks and the National Weather Association. The set of three 12 by 24-inch posters is available at \$11.00 from two sources:

How the WeatherWorks  
301 Creek Valley Lane  
Rockville, MD 20850  
Phone: (301) 762-7669  
Web: www.weatherworks.com

National Science Teachers Association  
1742 Connecticut Ave., N.W.  
Washington, DC 20209-1171

### •*Cloud Charts*

Cloud Charts, Inc.  
P.O. Box 29294  
Richmond, VA 23233

C.C. Marketing  
P.O. Box 1122  
Glen Allen, VA 23080  
Phone: (804) 262-7481

### •*Electrifying*

Poster of lightning flash striking a large city. \$4.95 + s & h  
Teacher's Discovery  
Phone: (888) 977-2436

### •*The Environment Chart*

55 by 31-inch poster with 42 color photos.  
For Spacious Skies  
54 Webb Street  
Lexington, MA 02173

### •*Hurricane Posters*

Colorful posters of various hurricanes.  
The Weather Catalog  
PO Box 22617  
Charleston, SC 29413-2617

### •*Lightning Danger!*

16 by 20-inch poster of lightning striking a nearby tree, and short text on lightning safety rules.

National Severe Storms Laboratory, NOAA  
1313 Halley Circle  
Norman, OK 73069

### •*National Oceanic and Atmospheric Administration (NOAA)*

'NOAA cloud chart.'  
'Natural hazard watch and warning' (NOAA/PA 86001).

'Explanation of the daily weather map.'

Superintendent of Documents  
Washington, DC 20418

•*Power, Speed, Danger, Beauty*

Poster of lightning flash striking the ground in Colorado.  
\$10 postpaid; discount for multiple copies.

Ken Langford  
Random Video Productions  
16385 West 8th Avenue  
Golden, CO 80401  
Phone: (303) 278-9441

•*Tornadoes*

A series of three posters on tornadoes:

'Fujita F-scale Color Set'

'Close Encounters Set'

'Fujita F-scale Black and White Set'

The Tornado Project

Box 302

St. Johnsbury, VT 05819

Web: [www.tornadoproject.com](http://www.tornadoproject.com)

•*World Meteorological Organization Cloud Sheet*

American Meteorological Society

45 Beacon Street

Boston, MA 02108-3693

Phone: (617) 227-2425

Web: [www.ametsoc.org](http://www.ametsoc.org)

## 5. PRINTED MATERIALS

A limited number of popular weather and climate books are usually available at local bookstores. Many textbooks can be ordered and purchased from bookstores catering to colleges. University and public libraries have numerous popular meteorology books and periodicals. Participating libraries within the Federal Depository system are sources of numerous weather-related government publications and climatological data.

*Weatherwise* magazine has many interesting articles and features. Pertinent articles also appear in *The Physics Teacher*, *The Science Teacher*, *The Earth Scientist*, *Science Scope*, and *Science and Children*. These articles contain useful information for demonstration, experiments, and other learning experiences for preschool through college. *Science and Children* contains a section "Geography and Weather" by H.M. Mogil and H.T. Collins. Reviews of pertinent books appear in *Science Books and Films* under "Earth Science."

### 5.1. GENERAL INTEREST - Adult Level

The following books target the adult non-technical reader and would not necessarily be considered textbooks. These general interest books may either focus on one area in the atmospheric sciences, or they may be sufficiently broad, and explain weather phenomena. Some books document interesting historical weather events or the history of meteorology. Many are attractive books, and contain photographs, diagrams, and other visual features.

#### A

##### *Acid Rain in Europe—Counting the Cost*

ApSimon, H., D. Pearce, and E. Ozdemiroglu, editors, 1997. Earthscan Publications, London, xii + 190 pp., ISBN 1-85383-443-2. £19.95.

##### *Alabama's Weather (The Complete Guide To...)*

Evans, Carol Muse, Seacoast Publishing, Inc., 112 pp. \$10.95.

Phone: (205) 979-2909

##### *All About Lightning*

Uman, M.A., 1986. Dover Publishing Inc., New York, 192 pp., ISBN 0-486-25237-X. \$5.95.

##### *The Amateur Meteorologist: Exploration and Investigations*

Mogil, H.M., 128 pp., How the WeatherWorks, 301 Creek Valley Lane, Rockville, MD 20850. \$6.95.

##### *The Atmospheric Sciences: Entering the Twenty-First Century*

National Research Council, National Academy Press, 364 pp. \$47.95. Web discount price \$38.36

Phone: (888) 624-8373

Web: [books.nap.edu/catalog/6021.html](http://books.nap.edu/catalog/6021.html)

##### *Atmosphere, Weather and Climate*

Barry, R.G., and R.J. Chorley, 1998. Routledge. Hard cover: ISBN 0-415160197, \$40.00. Paperback: ISBN 0-415160197, \$100.00.

##### *Atmospheric Halos*

Tape, W., 1994. American Geophysical Union, Washington, DC 20009, 143 pp., ISBN 0-87590-834-9. \$40.00.

##### *The Audubon Society Field Guide to North American Weather*

Ludlum, D.M., 1991. Alfred A. Knopf, New York, 656 pp., ISBN 0-679-40851-7. \$18.00.

#### B

##### *Blizzards & Snowstorms of Washington, D.C.: Photo History 1888 to 1993*

Historic Enterprises, P.O. Box 2786, Merrifield, VA 22116-2786, \$19.95.

##### *Braving the Elements: The Stormy History of American Weather*

Laskin, D., 1997. Anchor Books, ISBN 0-38546956-X. \$12.95.

#### C

##### *Climate, Change and Risk*

Downing, T.E., and A.A. Olsthoorn, editors, 1998. Routledge, ISBN 0-41517311. \$115.00.

##### *Climate Process and Change*

Bryant, E., 1997. Cambridge University Press, xvi + 209 pp. Hard cover: ISBN 0-5251-48189-9, \$59.95. Paperback: ISBN 0-521-48440-5, \$22.95.

##### *The Climate and Weather of Florida*

Henry, J.A., K. Portier, and J. Coyne, 1998. Pineapple Press. Hard cover: ISBN 1-56164036-0, \$27.95. Paperback: ISBN 1-5614037-9, \$17.95.

##### *The Climate of Fear: Why We Shouldn't Worry About Global Warming*

1998. Cato Institute, ISBN 1-882577655. \$9.95.

##### *Climates and Weather Explained*

Linacre, E., and B. Geerts, 1997. Routledge, London, x + 431 pp. Hard cover: ISBN 0-415-12519-7, £87.93. Paperback: ISBN 0-415-12520-0, £27.96.

##### *Compete Idiot's Guide to the Weather*

1998. Alpha Books. ISBN 0-028627091, \$16.95.

##### *Complete Weather*

Engelbert, P., 1997. UXL Publishing, ISBN 0-810397887-0. \$64.95.

##### *Crazy Weather*

McNichols, C.L., 1994. University of Nebraska Press, ISBN 0-80328319-2. \$7.95.

#### D

##### *Decade-to-Century-Scale Climate Variability and Change: A Science Strategy*

National Research Council, 1998. National Academy Press, ISBN 0-52163332X. \$39.00.



*Dick Goddard's Weather Guide and Almanac for Northeast Ohio*  
Goddard, D., 1998. Gray and Company, ISBN 1-886228124. \$13.95.

*Does the Weather Really Matter—The Social Implications of Climate Change*  
Burroughs, W.J., 1997. Cambridge University Press, xi + 230 pp., ISBN 0-521-56126-4. \$24.95.

## **E**

*Earth from Above: Using color-coded satellite images to examine the global environment.*  
Parkinson, C.L., 1997: University Science Books, 175 pp., ISBN 0-935702-41-5. \$24.00.

*Economic Value of Weather and Climate Forecasts*  
Katz, R.W., and A.H. Murphy, editors, 1997. Cambridge University Press, xv + 222 pp., ISBN 0-521-43420-3. \$49.95.

*El Niño: Stormy Weather for People and Wildlife*  
Arnold, C., 1998. Clarion Books, ISBN 0-395776023, \$16.00.

## **F**

*Facts on File Dangerous Weather Series*  
Allaby, M. Facts on File Publishing.  
-*Air: The Nature of Atmosphere and Climate*, 1992, 208 pp., ISBN 0-8160-2525-8.

-*Blizzards*, 1997, ISBN 0-81603518-0, \$24.95.

-*A Chronology of Weather*, 1997, ISBN 0-816035210, \$24.95.

-*Dangerous Weather: Includes A Chronology of Weather, Tornadoes, Hurricanes, Blizzards, Floods, Droughts*, 1998, ISBN 0-816035156, \$149.70.

-*Droughts*, 1998, ISBN 0-81603519-9, \$24.95.

-*Floods*, 1997, ISBN 0-81603520-2, \$24.95.

-*Hurricanes*, 1997, ISBN 0-81603516-4, \$24.95.

-*Tornadoes*, 1997, ISBN 0-81603517-2, \$24.95.

*The Farm Weather Handbook*  
Schwanz, L.H., 1997. Lessiter Publications, ISBN 0-94407907-5. \$24.95.

*A Field Guide to the Atmosphere*  
Schaefer, V.J., and J.A. Day, 1981. Houghton Mifflin Co., Boston, 359 pp., ISBN 0-395-24080-8.

*Floods and Droughts: The New Zealand Experience*  
Mosley, P., and C.P. Pearson, 1997. New Zealand Hydrological Society, Wellington, New Zealand, vii + 206 pp., ISBN 0-473-047135-7. NZ\$29.90.

*Florida Hurricanes and Tropical Storms*  
Williams, J.M., and I.W. Duedall, 1997. University of Florida Press, 148 pp., ISBN 0-8130-1515-4.

*Florida's Hurricane History*  
Barnes, Jay, 1999. University of North Carolina Press, 320 pp, \$19.95.  
Phone: (800) 848-6224

*Fodor's World Weather Guide*  
Pearce, E.A., and C.G. Smith, 1998. Random House, ISBN 0-375703497. \$17.95.

## **G**

*Global Warming: The Complete Briefing*  
Houghton, J.T., 1997. Cambridge University Press, xiii + 251 pp., ISBN 0-521-62932-2. \$22.95.

*Glossary of Weather and Climate*  
Geer, I.W., 1996. American Meteorological Society, Boston, 272 pp., ISBN 1-878220-21-7.

*Great Blizzards of New York City*  
Historic Enterprises, P.O. Box 2786, Merrifield, VA 22116-2786. \$26.95.

*The Great Flood of 1993*  
Changnon, S.A., editor, 321 pp., Westview Press, ISBN 0-8133-2619-2. \$65.00.

## **H**

*The Handy Weather Answer Book*  
Lyons, W.A., 1996. Visible Ink Press, 397 pp., ISBN 0-78761034-8. \$16.95.

Phone: (800) 776-6265

*The Heat is On: The Climate Crisis, the Cover-Up, the Prescription*  
Gelbspan, R., 1998. Perseus Books, ISBN 0-738200255. \$13.00.

*Historical Perspectives on Climate Change*  
Fleming, J.R., 1998. Oxford University Press, ISBN 0-195078705. \$45.00.

*The History of Weather*  
Williams, J.T., 1998. Nova Science Pub., ISBN 1-560726229. \$16.95.

*How the Weather Really Works*  
Bros, P., 1994. Financial Book Partners, ISBN 0-96277694-7. \$34.00.

*How Weather Works & Why*  
Lynott, R.E., 1994. Gadfly Press, 8925 SW Homewood, Portland, OR 97225, 144 pp., ISBN 0-6180771-7. \$40.00.

*How Weather Works (How It Works)*  
De Millo, R., 1994. Ziff Davis Press, ISBN 1-56276228-1. \$19.95.

*Human Impacts on Weather and Climate*  
Cotton, W.R., and R.A. Pielke, 1995. Cambridge University Press. Hard cover: ISBN 0-52149592-X, \$64.95. Paperback: ISBN 0-52149929-1, \$25.95.

*Hurricanes!*  
Chaston, P.R., 1996. Chaston Scientific, Inc., P.O. Box 758, Kearney, MO 64060. ISBN 0-9645172-2-1. \$29.00  
Phone: (816) 628-4770  
Email: chaston111@aol.com

*Hurricanes—Their Nature and Impacts on Society*  
Pielke, R.A., Jr., and R.A. Pielke, Sr., 1997. John Wiley & Sons, Inc., xviii + 279 pp., ISBN 0-471-97354-8, \$79.95.

## **I**

*In the Shadow of the Tornado*  
Giko Publishing, P.O. Box 2175W, Norman, OK 73070-2178, 170 pp., ISBN 0-9649527-1-8. \$14.95.  
Web: members.aol.com/gilcopub

*Instant Weather Forecasting*  
Watts, A., 1996. Sheridan House, ISBN 0-92448697-X. \$7.95.

*International Marine's Weather Predicting Simplified: How to Read Weather Charts and Satellite Images*  
Carr, M., 1999. McGraw-Hill, ISBN 0-070120315. \$25.95.

*Iowa Weather*  
American World Geographic Publishing, ISBN 1-56037058-0. \$14.95.

*Isaac's Storm*

Larson, Erik, 1999. Crown Publishing Group, \$25.00.  
Phone: (800) 793-2665

*It's Raining Frogs and Fishes: Four Seasons of Natural Phenomena and Oddities of the Sky.*

Dennis, J., 1992. Harper Collins, 323 pp., ISBN 0-06-016375-5.

**J**

*Janice VanCleave's Weather: Mind-boggling Experiments You Can Turn into Science Fair Projects (Spectacular Science Projects)*

VanCleave, J.P., 1995. John Wiley and Sons, ISBN 0-47103231-X. \$10.95.

**L**

*La Atmosfera y El Tiempo (Eyewitness Series in Spanish)*

Cosgrove, B., E. Fleury, and J. Woodcock, 1995. Knopf, ISBN 8-43723759-9. \$19.99.

*The Living Earth Book of Wind and Weather*

Posey, C.A., 1994. Readers Digest, ISBN 0-89577625-1, Part of *Readers Digest Living Earth* series. \$30.00.

**M**

*Mountain Weather: A Guide for Skiers and Hillwalkers*

Burroughs, W., 1996. Crowood Press, ISBN 1-85223877-1. \$24.95.

**N**

*National Audubon Society Pocket Guide to Clouds and Storms*

Ludlum, D.M., R.L. Holle, and R.A. Keen, 1991. Alfred A. Knopf, New York, 192 pp.

*North Carolina's Hurricane History: Revised and Updated Edition*

Barnes, J., 1998. University of North Carolina Press, 256 pp., ISBN 0-8078-4728-3. Soft cover-\$18.95. Hard cover-\$34.95.

*Now to the Weather: Confessions of a TV Weatherman*

Eagle Eye Publishing, P.O. Box 5049, South Frankston, Victoria 3199, Australia. \$19.95.

**P**

*Partly Sunny: The Weather Junkie's Guide to Outsmarting the Weather*

Fields, A., 1995. Windsor Peak Press, ISBN 0-96265565-1. \$12.95.

*Peterson Guide to Clouds and Weather*

1998. Chapters Pub. Limited, ISBN 0-395906636. \$5.95.

*Planet Earth and the New Geoscience*

Schmidt, V.A., 1986. Dover Publications, New York, 381 pp.

*Pocono Weather*

Gelber, B., 1998. Uriel Publishing, 364 pp., ISBN 0-9624020-8-7. \$24.95.

**Q**

*1001 Questions Answered About Hurricanes, Tornadoes, and Other National Air Disasters*

Tufty, B., 1987. Alfred A. Knopf, New York, 656 pp., ISBN 0-679-40851-7.

**R**

*Rainbows, Haloes, and Glories*

Greenler, R., 1989. Cambridge University Press, 195 pp., ISBN 0-521-38865-1.

*Rains All the Time*

Laskin, D., 1997. Sasquatch Books, 224 pp.

*Rising Tide: The Great Mississippi Flood of 1927 and How it Changed America*

Simon & Schuster, 524 pp., \$27.50.

**S**

*The Sailor's Weather Guide*

Markell, J., 1995. Sheridan House, ISBN 0-92448691-0. \$19.95.

*The Severe Local Storms Forecasting Primer*

TSLSP, 140 S. Kirkland Street, Florence, AL 35630-4312. \$40.00.

*Skywatch: The Eastern Weather Guide*

Keen, R.A., 1992. Fulcrum, Inc., Golden, CO, 204 pp., ISBN 1-55591-091-2.

*Skywatch: The Western Weather Guide*

Keen, R.A., 1987. Fulcrum, Inc., Golden, CO, 158 pp., ISBN 1-55591-019-X.

*The Snow Booklet: A Guide to the Science, Climatology, and Measurement of Snow in the United States*

Doesken and Judson, 1996. Colorado State University, Colorado Climate Center, Fort Collins. \$12.50.

Phone: (970) 491-8545

*The Snowflake Man: A Biography of Wilson A. Bentley*

Blanchard, Duncan C., McDonald & Woodward Publishing Company, 237 pp., \$16.95.

Phone: (800) 233-8787

*Spacious Skies*

Scorer, R., and A. Verkaik, 1991. Sterling Publishing Co., New York, 192 pp., ISBN 0-7153-9139-9.

*The Stories Clouds Tell*

LeMone, M.A., 1993. American Meteorological Society, Washington, DC, 28 pp., ISBN 1-878220-12-8. A set of accompanying slides is available through Project Atmosphere - See Section 4.3.

*Storms*

ASTER Press, Inc., P.O. Box 1233, Ft. Collins, CO 80522-1233, ISBN 0-9625986-0-7. \$21.00.

Phone: (970) 482-6874

*Storm Talk*

Marshall, T., 1995. 1336 Brazos Blvd., Lewisville, TX 75067, 223 pp. \$30.00.

*Stormy Weather*

Hiaasen, C., 1996. Warner Books. Hard cover: ISBN 1-56895276-7, \$25.95. Paperback: ISBN 0-44660342-2, \$6.99.

**T**

*Terror from the Skies!*

Chaston, P.R., 1996. Chaston Scientific, Inc., P.O. Box 758, Kearney, MO 64060, ISBN 0-9645172-1-3. \$20.00.

Phone: (816) 628-4770

Email: chaston111@aol.com

*Texas Weather*

Bomar, G.W., 1995. University of Texas Press. Hard cover: ISBN 0-29270810-6, \$37.50. Paperback: ISBN 0-29270811-4, \$19.95.

*Thunder in the Heartland, A Chronicle of Outstanding Weather Events in Ohio*

Schmidlin, T.W., and J.A. Schmidlin, 1996. Kent State University Press, 373 pp., ISBN 0-87338549-7. \$45.00.

Phone: (330) 672-7913

*Thunderstorms: A Social, Scientific, and Technological Documentary*

Kessler, E., editor, 1983. University of Oklahoma Press, 1005 Asp Avenue, Norman, OK 73019, 186 pp., ISBN 0-8061-1857.

-Volume 1: *The thunderstorm in human affairs*, 186 pp.

-Volume 2: *Thunderstorm morphology and dynamics*, 411 pp.

-Volume 3: *Instruments and Techniques for Thunderstorm Observation and Analysis*, 268 pp.

*Tornado: Accounts of Tornadoes in Iowa*

Stanford, J.L., 1987. Iowa State University Press, Ames, IA, 143 pp., ISBN 0-8138-0368-3.

*The Tornado: Its Structure, Dynamics, Predictions, and Hazard*

Church, C., D. Burgess, C. Doswell, and R. Davies-Jones, editors, 1993. American Geophysical Union, 637 pp., ISBN 0-87590-038-0.

*Tornado: Terror and Survival. A Kansas Community's Struggle to Recover*

Inglish, H., editor, 1990. The Counseling Center of Butler County, 217 Court, Andover, KS 67002, 87 pp., ISBN 0-9631191-0-9. \$8.95.

Phone: (317) 733-5047

*The Traveler's Weather Guide*

Loffman, T., 1996. Ten Speed Printing, ISBN 0-89815831-1. \$8.95.

**U**

*Understanding Weather and Climate*

Aguado, E., and J.E. Burt, 1998. Prentice Hall, ISBN 0-13210346X. \$58.67.

*Under the Whirlwind*

Verkaik, A., and J. Verkaik, 1997. Whirlwind Books, 224 pp., ISBN 0-9681537-0-4.

**W**

*Watching Weather*

Murphee, T., and M. Miller, 1998. Henry Holt and Company, Inc., 154 pp. \$12.95.

*Weather*

Burroughs, W.J., et al., 1996. Time-Life Books, 288 pp., ISBN 0-8094-9374-8. \$29.95.

*Weather*

Discovery Channel Books, 1999. ISBN 1-56331-802-4 \$13.95.

*Weather*

Hardy, R., 1996. Ntc Publishing Group, ISBN 0-84423727-2. \$9.95.

*Weather At Sea*

Houghton, D., 1998. Fernhurst Books, ISBN 1-898660492. \$14.95.

*The Weather Almanac 1995 (USA Today)*

Williams, J., 1994. Vintage Books, ISBN 0-6797554-0. \$14.00.

*Weather Basics*

Balsama, J.J. and P.R. Chaston, 1996. Chaston Scientific, Inc., P.O. Box 758, Kearney, MO 64060, ISBN 0-9645172-5-6. \$34.00.

Phone: (816) 628-4770

Email: chaston111@aol.com

*The Weather Book: An Easy-to-understand Guide to the USA's Weather*

Williams, J., 1997. Vintage Books, Second Revision, New York, 212 pp., ISBN 0-67977665-6. \$20.00.

*Weather Cycles: Real or Imaginary?*

Burroughs, W.J., 1994. Cambridge University Press, ISBN 0-52147869-3. \$20.95.

*Weather (Earth Science Library)*

Bramwell, M., 1994. Franklin Watts, ISBN 0-53114306-6. \$18.60.

*Weather Eye*

Howarth, L., 1997. Candlewick Press, ISBN 0-76360243-4. \$4.99.

*Weather Eye*

Irish Books and Media Inc., 149 pp., \$14.45.

Phone: (612) 871-3505.

Fax: (612) 871-3358.

*Weather Eye*

McWilliams, B., 1994. Lilliput Press Limited, ISBN 1-87467538-4. \$12.95.

*Weather Facts (Dk Pockets)*

Eden, P., and C. Twist, 1995. Dk Publishing, ISBN 0-78940218-1. \$6.95.

*Weather (Focus on Disasters)*

Martin, F., 1996. Rigby Interactive Library, ISBN 1-57572022-1. \$19.92.

*Weather Forecasting: For Outdoor Enthusiasts*

Newman, R., and S. Newman, 1996. Menasha Ridge Press, ISBN 0-89732179-0. Part of *Nuts 'N' Bolts Guide* series. \$4.95.

*Weather: A Golden Guide*

Lehr, P.E., R.W. Burnett, and H.S. Zim, 1987. Golden Press, 160 pp., ISBN 0-307-24051-7.

*The Weather Handbook*

Watts, A., 1999. Sheridan House, ISBN 1-57409081X. \$19.95.

*Weather In the Garden*

Taylor, J., 1998. John Murray Pubs. Ltd., ISBN 0-719552672. \$40.00.

*Weather Maps*

Chaston, P.R., 1996. Chaston Scientific, Inc., P.O. Box 758, Kearney, MO 64060, ISBN 0-9645172-4-8. \$29.00.

Phone: (816) 628-4770

Email: chaston111@aol.com

*Weather Patterns and Phenomena: A Pilot's Guide (Practical Flying Series)*

Turner, T.T., 1998. McGraw-Hill. Hard cover: ISBN 0-070656088, \$39.98. Paperback: ISBN 0-070065607X, \$17.95.

*Weather and People*

Morgan, M.D., and J.M. Moran, 1997. Prentice Hall, Upper Saddle River, NJ 97458, 200 pp., ISBN 0-02-383811-6. \$36.31.

*The Weather Revolution: Innovations and Imminent Breakthroughs in Accurate Forecasting*

Fishman, J., and R. Kalish, 1994. Plenum Press, ISBN 0-30644764-9. \$27.95.

*The Weather Sourcebook: Your One-Stop Resource for Everything You Need to Know to Feed Your Weather Habit*

Wagner, R.L., W. Adler Jr., and W. Adler, 1997. Globe Pequot Press, ISBN 0-7270080-7. \$18.95.

*Weather (Spotter's Guide Series)*

Wilson, F., and F. Mansfield, 1995. EDC Publishing, ISBN 0-86020270-4. \$4.95.

*Weathering the Storm*

University of Oklahoma Press, Dept. MAR2, 1005 Asp Avenue, Norman, OK 73019.

Phone: (800) 627-7377.

*Weather Watch*

File, D., 1991. Fourth Estate Ltd., 299 pp., ISBN 1-872180-12-4.

*Weather Wisdom: Proverbs, Superstitions, and Signs*

Kingsbury, S.A., M.E. Kingsbury, and W. Mieder, 1996. Peter Lang Publishing, Inc., New York, ISBN 0-82043326-8. \$49.95.

*Western New York Weather Guide: A Century of Sun, Snow, Sleet and Rain*

Traver, J., 1997. Western New York Wares Inc., ISBN 1-879201186. \$7.95.

*Weird Weather*

Simons, P., 1997: Little Brown and Company, ISBN 0-31679179-2. \$22.95.

*What's In the Air: Natural and Man-Made Air Pollution*

Blewette, Stephen F. Seaview Publishing, 140 pp. \$11.95. Phone: (805) 643-6279

*Wind: How the Flow of Air Has Shaped Life, Myth, and the Land*

DeBlieu, J., 1998. Houghton Mifflin, 294 pp. \$24.00.

*Windows on Meteorology—Australian Perspective*

Webb, E.K., editor, 1997. CSIRO Publishing, Government of Australia, x + 342 pp., ISBN 0-643-06038-3. \$49.95.

*The Wonders of the Weather*

Crowder, R., 1997. Government of Australia, ISBN 0-64435020-2. \$39.95.

*The World of Weather*

Cosgrove, B., 1997. Voyageur Press, ISBN 1-85310765-4. \$29.95.

**Y**

*Year of the Storms: Destructive Kansas Weather of 1990*

Inglish, H., 1990. Hearth Publishing, Hillsboro, KS, 120 pp., \$12.95. ISBN 0-9627947-0-8.

## 5.2. GENERAL INTEREST - Children's Level

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**A**

*Air: All About Cyclones, Rainbows, Clouds, Ozone, and More*

Allen, D., 1993. Firefly Books, Buffalo, 32 pp., ISBN 1-895688-08-6.

*All Aboard Reading*

-*Pink Snow and Other Weird Weather (Level 2)*, Dussling, J., and H. Petach, 1998. Hard cover: ISBN 0-448418878, \$13.89. Paperback: ISBN 0-448418584, \$3.99.

-*Storm Chasers: Tracking Twisters*, Herman, G., and L. Schwinger, 1997, ISBN 0-44841638-7. \$13.99.

-*Storm Chasers: Tracking Twisters (Level 3)*, Herman, G., and L. Schwinger, 1997, ISBN 0-44841624-7. \$3.95

-*Storm Chasers*, Herman, G., and L. Schwinger, 1997, ISBN 0-60611917-5. \$9.50.

*All About the Weather (Early Birds)*

DeSaules, J., H. Songhurst, and T. Wells, 1997. Smithmark Publishing, ISBN 0-76519339-6, \$5.98.

*All-Weather Friends*

Weigelt, U., N. D'Aujourd'Hui, and J.A. James, 1998. North South Books. Hard cover: ISBN 0-73510478, \$55.01. Paperback: ISBN 0-735810486, \$16.01.

*The Amateur Meteorologist: Explorations and Investigations (Amateur Science)*

Mogil, H.M., and B.G. Levine, 1994. Franklin Watts, ISBN 0-53115696-6. \$6.95.

*Anytime Weather Everywhere*

Mogil, H.M., 1995. How the Weatherworks, ISBN 1-88701349-0. \$15.95.

**B**

*Barney's Weather Book*

Dudko, M.A., M. Larsen, and W. Langley, 1995. Lyrick Studios, ISBN 1-57064037-8. \$3.95.

*Be Your Own Weather Expert*

Baker, K., 1996. Merlin Books Limited, ISBN 0-86303676-7. \$10.01.

*Blizzards (New True Books)*

Erlbach, A., 1995. Childrens Press. Hard cover: ISBN 0-51601073-5, \$19.00. Paperback: ISBN 0-51641073-3, \$5.50.

*Boo and Baa in Windy Weather*

Landstrom, O., L. Landstrom, and J. Sandin, 1996. Farrar Straus and Giroux (Juvenile), ISBN 9-12963920-4. \$7.95.

**C**

*Can It Really Rain Frogs: The World's Strangest Weather Events (Spencer Christian's World of Wonders)*

Christian, S., and A. Felix, 1997. John Wiley & Sons, ISBN 0-47115290-0. \$12.95.

*Chloe*

1998, Sterling Pub. \$5.95 each.

-*Chloe's Snowy Day*, ISBN 1862330468.

-*Chloe's Sunny Day*, Mitra, A., ISBN 186233031X.

-*Chloe's Rainy Day*, ISBN 1862330417.

-*Chloe's Windy Day*, ISBN 1862330360.

*Cloudy Day Sunny Day*

Crews, D, 1999. Harcourt Brace, ISBN 0-152019979. \$13.01.

**D**

*Discover Nature in the Weather*

Herd, T., 1999. Stackpole Books, ISBN 0-811727165. \$14.95.

### *Don't Blame the Weatherman*

Gikofsky, I., 1992. Avon Books, New York, 102 pp., ISBN 0-380-76720-1.

### *Drought*

Lampton, C., 1992. Millbrook, Brookfield, CT, 64 pp., ISBN 1-56294-125-9. Part of *Disaster!* series.

### *Dr. Fred's Weather Watch*

Bortz, F., 2000. McGraw-Hill, New York, 98 pp., ISBN 0-07-134799-2. \$11.95.

## **E**

### *Elmer's Weather*

McKee, D., 1994. Lothrop Lee and Shepard, ISBN 0-68813760-1. \$4.95.

### *Explore the World of Forces of Nature*

Ganieri, A., 1991. Golden Press, New York, 46 pp., ISBN 0-307-15602-8. Part of *Explore the World of . . .* series.

### *Extreme Weather*

-*Blizzards*, Burba, L.N., 1998. Powerkids Press, ISBN 0823952916. \$55.01.

-*Electrical Storms*, 1999. Rosen Pub. Group, ISBN 0823952940. \$20.01.

-*Hail*, Burba, L.N., 1998. Powerkids Press, ISBN 0823952932, \$55.01.

-*Heatwaves and Droughts*, 1999. Rosen Pub. Group, ISBN 0823952924. \$20.01.

-*Tornadoes*, 1999. Rosen Pub. Group, ISBN 0823952894. \$15.95.

-*Tropical Storms and Hurricanes*, Burba, L.N., 1998. Powerkids Press, ISBN 0823952908. \$16.01.

## **G**

### *Geoffrey Groundhog Predicts the Weather*

Koscielniak, B., 1998. Houghton Mifflin Co., ISBN 0-395883989. \$5.95.

## **H**

### *Heavy Weather*

Sterling, B., 1996. Bantam Books, ISBN 0-553527292-X. \$6.50.

### *How to Cope with Storms*

Von Haften, D., 1997. Sheridan House, ISBN 1-57409032-1. \$19.95.

### *How's the Weather*

Kahl, J.D., Lerner Publications Co., Minneapolis.

-*Hazy Skies: Weather and Environment*, 1997, ISBN 0-82252530-5. \$21.27.

-*Storm Warning: Tornadoes and Hurricanes*, 1993, 64 pp., ISBN 0-8225-2527-5.

-*Thunderbolt: Learning About Lightning*, 1993, 56 pp., ISBN 0-8225-2528-3.

-*Weather Watch: Forecasting the Weather*, 1996, ISBN 0-82252529-1. \$21.27.

-*Wet Weather: Rain Showers and Snowfall*, 1992, 63 pp., ISBN 0-8225-2536-7.

-*Weatherwise: Learning About the Weather*, 40 pp., ISBN 0-8225-2535-9.

### *How's the Weather? A Look at Weather and How It Changes*

Berger, M., G. Berger, and J.E. Cymerman, 1998. Chelsea House Pub., ISBN 0-791050667X. Part of *Discovery Readers* series. \$15.95.

### *How the Weather Works*

Allaby, M., 1995. Readers Digest, ISBN 0-89577612-X. \$24.00.

### *Hurricanes*

Lee, S., 1993. Watts, New York, 64 pp., ISBN 0-531-20152-X. Part of *Disaster!* series.

## **I**

### *I Can Read About Weather*

Supraner, R., C. Studio, and D. Davidson, 1997. Troll Communications, ISBN 0-81674206-5. \$4.95.

### *Ice Caps and Glaciers*

Twist, C., 1993. Franklin Watts, New York, 32 pp., ISBN 531-17396-8. Part of *Hands on Science* series.

### *I'd Like to Be a Meteorologist: Learning About the Weather, Seasons, Water Cycle, and Clouds*

Twin Sisters Productions, 1996, ISBN 1-57583021-3. \$9.98 for book and cassette.

### *It's Raining, It's Pouring*

Eagle, K., and R. Gilbert, 1998. Whispering Coyote Press, ISBN 1-580890172. \$6.95.

## **K**

### *Kipper's Book of Weather*

Inkpen, M., 1995. Harcourt Brace, ISBN 0-15200644-3. \$6.00.

### *The Kid's Book of Weather Forecasting*

Breen, M., and K. Friestad, 2000. Williamson Publishing, Charlotte, VT, 140 pp., ISBN 1-885593-39-2. \$12.95.

## **L**

### *Learning About Weather (Learning About Science Series Prek-1, Volume 1)*

Moore, J.E., 1994. Evan-Moor Corporation, ISBN 1-55799305-X. \$5.95.

### *Let's Look At Weather*

Tuxworth, N., 1998. Lorenz Books, ISBN 1-85967598-0. Part of *Let's Look* series. \$3.95.

### *Lightning*

Kramer, S., 1992. Carolrhoda, Minneapolis, 48 pp., ISBN 0-87614-422-9.

### *Living With the Weather*

1998, Raintree/Steck Vaughn.

-*Fog, Mist, and Smog*, Dunn, A., ISBN 0-81725053-0. \$24.97.

-*Heat and Drought*, Bender, L., ISBN 0-817250514. \$24.97.

-*Rain, Wind, and Storm*, Baxter, N., ISBN 0-817250506. \$24.97.

-*Snow and Ice*, Steele, P., ISBN 0-81725052-2. \$25.69.

## **M**

### *The Magic School Bus Inside a Hurricane*

Cole, J., and B. Degen, 1995. Scholastic Paperbacks Trade. Hard cover: ISBN 0-59044686-X, \$15.95. Paperback: ISBN 0590446878, \$4.95.

### *My First Weather Books*

1998, Larousse Kingfisher Chambers, \$8.95 each.

-*Corey's Kite*, ISBN 1-840890339.

-*Sandra's Sunhat*, ISBN 1-840890320.

-*Pete's Puddles*, ISBN 1-840890312.

-*Su's Snowgirl*, Roche, H., and P. Pratt, ISBN 1-840890347.

## N

*National Audubon Society First Field Guide: Weather*  
Kahl, J.D.W., 1998. Scholastic Inc., 159 pp., ISBN 0-590-05488-0. \$10.95.

## O

*Our Changing Planet: How Volcanoes, Earthquakes, Tsunamis, and Weather Shape Our Planet*  
Scholastic Paperbacks Trade, 1996. ISBN 0-59047651-3. Part of *Scholastic Voyages of Discovery, Natural History* series. \$19.95.

## P

*People Chase Twisters and Other Amazing Facts About Violent Weather (I Didn't Know That)*

Petty, K., and P. Roberts, 1998. Copper Beech Books, ISBN 0-76130715-X. Hard cover-\$19.90; paperback-\$10.01.

*Professor Fergus Fahrenheit and His Wonderful Weather Machine*

Groth-Fleming, C., and D. Weller, 1994. Simon and Schuster (Juvenile), ISBN 0-67187047-5. \$14.00.

*Punxsutawney Phil and His Weather Wisdom*

Mourtan, J.S., 1998. Literary Publications, ISBN 0961781963. \$11.95.

## Q

*Questions and Answers About Weather*

Craig, M.J., and L. Ebert, 1996. Scholastic Paperbacks Trade. Hard cover: ISBN 0-60609774-0, \$10.60. Paperback: ISBN 0-5904112-X, \$5.99.

## R

*Rain (Sequences of Earth and Space)*

Ruiz, A.L., and L. Rizo, 1997. Sterling Publishing, ISBN 0-80699333-2. \$12.95.

*Reading Weather: Where Will You Be When the Storm Hits?*

Woodmencey, J., and T. Telander, 1998. Falcon Press Pub. Co., ISBN 1560446625. \$6.95.

*Rivers and Oceans*

Taylor, B., 1993. Kingfisher Books, New York, 32 pp., ISBN 1-85697-939-3. Part of *Young Discoverers* series.

## S

*Science in the Air (How and Why Science)*

1998. World Bank, ISBN 0716671115. \$22.01.

*The Sierra Club Book of Weatherwisdom*

McVey, V., 1991. Sierra Club Books, San Francisco, 104 pp., ISBN 0-316-56431-2.

*Sky (National Geographic Nature Library)*

Delano, M.F., 1998. National Geographic Society, ISBN 0-79227047-9.

*Sky and Weather*

Ward, A., 1993. Franklin Watts, New York, 32 pp., ISBN 0-531-14176-43. Part of *Project Science* series.

*Snow*

Bianchi, J., and F.B. Edwards, 1992. Firefly Books, Buffalo, 48 pp., ISBN 0-921285-09-4.

*Snowflake Bentley: Man of Science and God, the Story of an Ingenious Vermonter*

Stoddard, G.M., 1985. The New England Press, Shelburne, VT, 125 pp., ISBN 0-933050-31-3.

*Stormy Weather (Ready-To-Read)*

Wigand, M., and B. Goldberg, 1997. Simon Spotlight Books, ISBN 0-68981259-0. \$3.99.

*Sun, Snow, Stars, Sky*

Anholt, C., and L. Anholt, 1995. Viking Childrens Books, ISBN 0-67086196-0. \$13.99.

## T

*Teaching You About Weather With Stories That Rhyme*

Story Time Stories That Rhyme, ISBN 1-56820148-6. \$7.95.

*Tell Me Why Rain Is Wet (Whiz Kids)*

Willis, S., 1999. Franklin Watts, ISBN 0-531118320. \$20.01.

*Thomas and the Weather (My First Thomas Lift-the-Flap Board Books)*

Tawdry, W., W. Tawdry, and R. Davies, 1998. Random House Children's Publishing, ISBN 0-67989004-1. \$4.99.

*Tornado*

Kramer, S., 1992. Carolrhoda, Minneapolis, 48 pp., ISBN 0-87614-660-4. Part of *Nature in Action* series.

*Tornado*

Lampton, C., 1991. Millbrook, Brookfield, CT, 64 pp., ISBN 1-56294-032-5. Part of *Disaster!* series.

## U

*Unit About Weather*

Deweese, R., and J. Moore, 1994. Evan-Moor Corporation, ISBN1-557997279-7. \$5.95.

## W

*Wacky Weather (How It Works)*

Malam, J., and M. Foster, 1998. Simon & Schuster, ISBN 0-68981189-6. \$14.00.

*Watching Weather (Accidental Scientist)*

Murphree, T., and M.K. Miller, 1998. Exploratorium, ISBN 0-80504522. \$12.95.

*Watching the World's Weather*

Burroughs, W.J., 1992. Cambridge University Press, 196 pp., ISBN 0-521-34342-9.

*Water*

Twist, S.M., 1992. Garrett Educational, Ada, OK, 25 pp., ISBN 0-9444833-72-0. Part of *Threads* series.

*Water (Against the Elements)*

Richardson, H., and M. Saunders, 1998. Copper Beech Books, ISBN 0-761308016. \$22.40.

*Water Up, Water Down: The Hydrologic Cycle*

Twist, S.M., 1993. Carolrhoda Books, Minneapolis, 47 pp., ISBN 0-87614-695-7. Part of *Earth Watch* series.

*Weather*

Baker, S., and R. Hatfield, 1998. Childs Play International Limited, ISBN 0-85953929-6. \$14.99.

*Weather*

Chanko, P., 1997. Scholastic Paperbacks Trade, ISBN 0-59010730-5. Part of *Science Emergent Readers* series. \$10.01.

*Weather*

Davies, K., and W. Oldfield, 1992. Steck-Vaughn, Austin, TX, 32 pp., ISBN 0-8114-3007-3. Part of *Starting Science* series.

*Weather*

Farndon, J., and J. Bendall-Brunello, 1998. Dk Pub. Merchandise, ISBN 0-78942853. \$5.95.

*Weather*

Getzoff, M., and S.T. Hall, 1996. Troll Communications, ISBN 0-81673607-3. Part of *Troll First-Start Science* series. \$7.89.

## Weather

Kierein, T., 1994. National Geographic Society, 10 pp., ISBN 0-7922-2782-4. Part of set 10 of *National Geographic Action Book* series. *Weather* is packaged as a two-book pop-up set with *African Animal Giants*. \$34.00.

## Weather

Kerrod, R., 1997. Lorenz Books, ISBN 1-85967189-6. Part of *Learn About* series. \$7.95.

## Weather

Kerrod, R., 1998. Gareth Stevens, ISBN 1-8836820886. Part of *Young Scientist Concepts and Projects* series. \$22.60.

## Weather

1997. Readers Digest, ISBN 0-89577975-7. Part of *Reader's Digest Explores Science & Nature* series. \$24.95.

## Weather

Saunders-Smith, G., 1998, Pebble Books. \$13.25 each.  
-*Clouds*, ISBN 156-657774.  
-*Lightning*, ISBN 1560657790.  
-*Rain*, ISBN 156066657782.  
-*Sunshine*, ISBN 1560657804.

## Weather (Accelerated Reading Program Grades 1-2)

Cutting, B., 1996. Wright Group, ISBN 0-78025242-X. \$7.00.

## Weather Around You (Geography Starts Here)

Royston, A., 1998. Raintree/Steck Vaughn, ISBN 0-81725115-4. \$22.11.

## Weather Channel

-*Hurricanes*, Hood, S., 1998, Simon Spotlight, ISBN 0689820178. \$3.99.  
-*Lightning! And Thunderstorms*, Graf, M., 1998, ISBN 0689820186, \$3.99.  
-*The Sun*, Barkan, J., 1999, ISBN 0689820208, Aladdin Paperbacks, \$3.99.

## Weather and Climate

Mason, J., 1991. Silver Burdett Press, Englewood Cliffs, NJ, 48 pp., ISBN 0-382-23225-4. Part of *Our World* series.

## Weather and Climate

Silverstein, A., V. Silverstein, and L.S. Nunn, 1998. Twenty First Century Books, ISBN 0-761332235. Part of *Science Concepts* Series. \$23.40.

## Weather and Climate

Taylor, B., 1995. Kingfisher Books, New York, 32 pp., ISBN 1-85697626-2. Part of *Young Discoverers* series. \$13.90.

## Weather: Drama of the Heavens (Discoveries)

Chaboud, R., 1996. Harry N. Abrams, ISBN 0-81092878-7. \$12.95.

## Weather Everywhere

Casey, D., and J. Gilmore, 1995. Simon and Schuster (Juvenile), ISBN 0-02717777-7. \$15.00.

## Weather Explained: A Beginner's Guide to the Elements

Elsom, D.M., 1997. Henry Holt & Company, ISBN 0-80504875-8. Part of *Your World Explained* series. \$18.95.

## Weather Forecaster

Taylor-Cork, B., 1992. Gloucester Press, New York, 32 pp., ISBN 0-531-17267-8. Part of *Expert* series.

## The Weather Genie

Laurie, J., 1998. Nature Pub. House, ISBN 9578741790. \$8.95.

## Weather: An Introduction to Clouds, Storms, and Weather Patterns

1998. Waterford Press, ISBN 1-889903302. Part of *Pocket Naturalist* series. \$7.95.

## The Weather and Its Secrets

1998. Readers Digest, ISBN 0-762100842. \$20.01

## Weather (Let's Investigate Science)

Kerrod, R., and T. Evans, 1994. Marshall Cavendish Corporation, ISBN 1-85435630-5. \$25.64.

## Weather (Little Princess Board Books)

Ross, T., 1995. Red Wagon, ISBN 0-15200320-7. \$6.00.

## Weather (Nature Company Guides)

Burroughs, W.J., R. Crowder, T. Robertson, and E. Vallier-Talbot, 1996. Time Life Education, ISBN 0-80949374-8. \$29.95.

## Weather: The Nature Company Journals

Time Life Education, ISBN 0-80949380-2. \$14.95.

## Weather and Other Facts About Weather (You'd Never Believe It, But)

Taylor, H., and S. Sweet, 1999. Copper Beech Books, ISBN 0-761332537. \$21.90.

## Weather: Poems (An I Can Read Book)

-Hopkins, L.B., and M. Hall, 1994. Harpercollins Juvenile Books, ISBN 0-06021463-5. \$14.95.

-Hopkins, L.B., and M. Hall, 1994. Harpercrest, ISBN 0-06021462-7. \$14.89.

## Weather Report

Merk, A., 1994. Rourke Publishing Group. \$14.60 each.

-*Clouds*, ISBN 0-86593389-8,

-*Rain, Snow, and Ice*, ISBN 0-86593390-1.

-*Storms*, ISBN 0-86593386-3.

-*Studying Weather*, ISBN 0-86593385-5.

-*Weather Signs*, ISBN 0-86593388-X.

-*The Weather and Us*, ISBN 0-86593387-1.

## Weather and Seasons (Bip Quiz Series)

MacKenzie, F., 1995. Sterling Publications, ISBN 0-80690937-4. \$2.95.

## The Weather Sky

McMillan, B., 1996. Demco Media. Hard cover: ISBN 0-60610025-3, \$12.75. Paperback: ISBN 0-37448266-7, \$6.95.

## Weather Walkabout

Pluckrose, H., 1994. Childrens Press. Hard cover: ISBN 0-51608123-3, \$17.60. Paperback: ISBN 0-51640123-8, \$4.95.

## Weather Watch

Steele, P., 1991.

-*Wind*, ISBN 0531-11024-9.

-*Storms*, ISBN 0531-11026-5.

-*Heatwave*, ISBN 0531-11023-0.

-*Frost*, ISBN 0531-11025-7.

## Weather Watch (First Science)

Rowe, J., and M. Perham, 1996. Childrens Press. Hard cover: ISBN 0-51608142-X, \$19.90. Paperback: ISBN 0-51648142-8, \$4.95.

## Weather Words and What They Mean

Gibbons, G., 1990. Holiday House, New York, 30 pp., ISBN 0-8234-0805-1.

*Weather (Young Scientist Concepts and Projects)*

Kerrod, R., 1998. Gareth Stevens, ISBN 0-83682088-6. \$21.27.

*What Is Weather*

Owen, A., A. Owen, and M. Ashwell, 1999. Rigby Interactive Library. \$19.22 each.

-*Rain*, ISBN 1-575727897.

-*Snow*, ISBN 1-575727900.

-*Sunshine*, ISBN 1-575727919.

-*Watching the Weather*, ISBN 1-575727927.

-*Wind*, ISBN 1-575727935.

*What's the Weather*

Roffey, M., 1995. McClelland and Stewart, ISBN 0-33359234-4. \$9.99.

*Why Can't I See the Wind?: First Questions and Answers About Weather*

1994, Time Life Education, ISBN 0-783508911-3. Part of *Time-Life Library of First Questions and Answers* series. \$14.95.

*Why Does Lightning Strike? Questions Children Ask About the Weather*

Martin, T., and C. Bingham, 1996. Dk Publishing, ISBN 0-78941123-7. Part of *Why Books* series. \$9.95.

*Why Do We Have Wind and Rain?*

-Lewellyn, C., and A. Lewis, 1995. Barrons Juveniles. Hard cover: ISBN 0-81206508-5, \$9.95. Paperback: ISBN 0-81209279-1, \$4.95.

-Lewellyn, C., 1995. Demco Media, ISBN 0-60608907-1. \$10.60.

*Wild Weather (Hello Reader)*

-*Blizzards*, Hopping, L.J., and J. Wheeler, 1999. Cartwheel Books, ISBN 0-59039730-3. \$3.99.

-*Hurricane*

-Hopping, L.J., 1995. Demco Media, ISBN 0-60608384-7. \$9.05.

-Hopping, L.J., and J. Wheeler, 1995. Cartwheel Books, ISBN 0-59046378-0. \$3.50.

-*Lightning*, Hopping, L.J., and J. Wheeler, 1999. Scholastic Paperbacks, ISBN 0-59052285X. \$20.01.

-*Tornadoes*, Hopping, L.J., and J. Wheeler, 1994. Scholastic Paperbacks Trade. Hard cover: ISBN 0-60606881-3, \$9.60. Paperback: ISBN 0-59046338-1, \$3.99.

*Wild, Wet and Windy*

Llewellyn, C., 1998. Candlewick Press, ISBN 0-763606308. \$4.99.

*Wind Blows (What Happens When)*

Butler, D., 1995. Raintree/Steck Vaughn, ISBN 0-81724153-1. \$21.40.

*Wind and Weather: Climates, Clouds, Snow, Tornadoes, and How Weather Is Predicted*

Onish, L., 1995. Scholastic Paperbacks Trade, ISBN 0-59047646-7. Part of *Scholastic Voyages of Discovery, Natural History* series. \$19.95.

*Wind, What Makes You Move?*

Grazzini, F., C. Carrer, and T. Wise, 1996. Kane/Miller Book Publishing Company, ISBN 0-91629167-7, \$11.95.

*The Wonder of Weather*

Freier, G.D., 1999. Gremmercy, ISBN 0-517201941. \$7.99.

**Y**

*Yeah, But Do I Need an Umbrella?: Weather Made Simple*

Atkins, B., 1994. Renaissance Publications, ISBN 0-93664518-0. \$8.95.

*You Are the Weather*

Horn, R., 1997. Distributed Art Publishing, ISBN 3-93114145-4. \$45.00.

### 5.3. REFERENCE BOOKS

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This list contains books which may be found in reference collections of libraries.

•*Aviation Weather*

Lester, P.F., 1995. Jeppesen Sanderson, 402 pp., ISBN 0-88487-178-9. \$45.95.

•*Aviation Weather and Weather Services*

Gleim, I.N., 1998. Gleim Publications, ISBN 0-917539931. \$18.95.

•*Calculating the Weather: Meteorology in the 20th Century*

Nebeker, F., 1995. Academic Press, International Geophysics series, Volume 60, ISBN 0-12515175-6. \$59.95.

•*Encyclopedia of Climate and Weather, Volumes 1 & 2*

Schneider, S.H., 1996. Oxford University Press, 928 pp., ISBN 0-19-509485-9. \$195.00.

•*Gale Research, Inc. Datasets*

-*Storm Data for the U.S., 1970-1974, 1975-1979.*

-*Climate Normals for the U.S., Base 1951-1980, 1st edition, 711 pp., ISBN 0-8103-1025-2.*

-*Climates of the States, 1985, 2 volumes, 1572 pp., ISBN 0-8103-1042-2.*

-*The Weather Almanac, 1997, 8th edition, 855 pp., ISBN 0-81035522-1. \$135.00.*

-*Weather of the U.S. Cities, Ruffner, and F.E. Bair, 1985, 2 volumes.*

•*Glossary of Meteorology*

Huschke, R.E., editor, 1959. American Meteorological Society, Boston, 658 pp.

•*Glossary of Weather and Climate*

Geer, I., 1996. American Meteorological Society. Hard cover: ISBN 1-87822019-5, \$29.95. Paperback: ISBN 1-87822021-7, \$21.95.

•*Handbook of Applied Meteorology*

Houghton, D.D., editor, 1985. John Wiley and Sons, New York, 1461 pp., ISBN 0-471-08404-2. Available from American Meteorological Society, Boston.



- Meteorological and Geostrophysical Abstracts*  
Current abstracts are indexed from domestic and foreign sources covering meteorology, climatology, hydrology, glaciology, and environmental sciences. Meteorological and Geostrophysical Abstracts c/o Inforonics, Inc., 550 Newtown Road/POB 458 Littleton, MA 01460 Phone: (508) 486-8976 Fax: (508) 486-0027
- Meteorological Glossary*  
Lewis, R.P.W., editor, 6th edition, 1991. Her Majesty's Stationary Office, 335 pp. Available through Unipub, Lanham, MD. ISBN 0-11-400363-7.
- Significant Tornadoes, 1880-1989*  
Environmental Films, St. Johnsbury, VT, two-volume set, 1245 pp., ISBN 1-879363-00-7.
- Traveler's Weather Guide*  
Mogil, H.M., 1990. Narrative and tabular climatic information for 150 cities. Available from How the Weatherworks, 301 Creek Valley Lane, Rockville, MD 20850.
- Weather Almanac: A Reference Guide to Weather, Climate, and Air Quality in the United States and Its Key Cities*  
Wood, R.A., 7th Edition, 1996. Gale Research, ISBN 0-81036980-X. \$130.00.
- Weather America: The Latest Detailed Climatological Data for Over 4,000 Places--With Rankings*  
Garwood, A.N., 1996. Toucan Valley Publications, ISBN 1-88492560-X. \$99.95.
- Weather of United States Cities*  
Wood, R.A., 5th Edition, 1996. Gale Research, ISBN 0-81035525-6. \$210.00.
- World Weather Extremes*  
Riordan, P., 1994. Diane Publishing Company, ISBN 0-78811537-5. \$35.00.

## 5.4. ACTIVITIES AND LABORATORY EXERCISE MANUALS FOR K-12

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This section contains printed material describing demonstrations, experiments, and other student activities. Some of the sources are reference books which are aimed toward the teacher and include prepared lesson plans.

- The Amateur Meteorologist: Explorations and Investigations*  
Mogil, H.M., and B.G. Levine, 1993. Contains hands-on experiments for students in Grades 6-8 to undertake at home. Library edition: ISBN 0-531-11045-1, \$17.95. Paperback: ISBN 0-531-159696-6, \$6.95.  
How the Weatherworks, 301 Creek Valley Lane, Rockville, MD 20850. Phone: (301) 762-7669
- American Meteorological Society  
A series of activities in teacher guides have been prepared by Project Atmosphere of the AMS.  
45 Beacon Street, Boston, MA 02108-3693  
Phone: (617) 227-2425  
Web: www.ametsoc.org
- Articles with student activities:  
Adridge, M., B. Lary, and G.H. Krockover, 1989: Introducing isolines. *The Science Teacher*, **56**, 31-33. Presents an activity with three cork boards which describes isopleth analysis procedures.  
Gonski, R., 1992: School weather network - A cooperative effort. *Bulletin of the American Meteorological Society*, **73**, 628--630. Discussion of the development, maintenance, and use of a statewide school weather network, using 7<sup>th</sup> grade students.  
Knorr, T.P., 1984: Weather or not to teach junior high meteorology. *The Science Teacher*, **51**, 62-64. Presents a weather map activity with white sheet metal boards for a weekly weather map sequence; weather information is from The Weather Channel.  
Mogil, H.M., and H.T. Collins, 1989: Hurricanes. *Science and Children*, **27**, 41-44.  
Mogil, H.M., and H.T. Collins, 1989: Seasons. *Science and Children*, **27**, 37-40.  
Mogil, H.M., and H.T. Collins, 1989: Mountain meteorology. *Science and Children*, **27**, 29-33.  
Mogil, H.M., and H.T. Collins, 1989: Oceans. *Science and Children*, **27**, 17-24.
- Atmospheric Detectives. Atlas 2 Teacher's Guide with Activities*  
NASA, 1992. NASA-EP-285/11-92, Washington, DC, 28 pp.
- Calendar Activity*  
Winrich, R.A., 1990. Aerospace Education Services Project, NASA Lewis Research Center, Cleveland, OH, 22 pp.
- Dr. Fred's Weather Watch*  
Bortz, F., 2000. McGraw-Hill, New York, 98 pp., ISBN 0-07-134799-2. \$11.95.
- Earth: A Creative, Hands-on Approach to Science*  
Baker, W., and A. Haslam, 1993. Aladdin Books, New York, 48 pp., ISBN 0-689-71662-1.
- Earth's Mysterious Atmosphere: Atlas 1 Teacher's Guide with Activities*  
NASA, 1991. NASA-EP-282/11-91, Washington, DC, 77 pp.
- Earth Science for Every Kid: 101 Easy Experiments That Really Work*  
Van Cleave, J.P., 1991. John Wiley and Sons, New York, 231 pp., ISBN 0471-54389-6.

- Experimenting with Air and Water*  
Ward, A.M., 1993. Part of *Experimenting With* series. Batsford, North Pomfret, VT, 48 pp., ISBN 0-8521-9774-8. An activity book for 8-13 year olds.
- Great Explorations in Math and Science (GEMS)*.  
Curricula for global climate change and acid rain are sold by the GEMS program at:  
Lawrence Hall of Science, University of California, Berkeley, CA 94720. Phone: (510) 642-7771
- The Kid's Book of Weather Forecasting*  
Breen, M., and K. Friestad, 2000. Williamson Publishing, Charlotte, VT, 140 pp., ISBN 1-885593-39-2. \$12.95.
- A Look at Weather: Activities for the Primary Student*  
Winrich, R.A., 1988. Aerospace Education Services Project, NASA Lewis Research Center, Cleveland, OH, 31 pp. Illustrations, maps, and forms.
- Making and Using Your Own Weather Station*  
Tannenbaum, B., and H.F. Tannenbaum, 1989. Franklin Watts, New York, 111 pp., ISBN 0-531-10675-6.
- Mariner's Weather Handbook*  
Dashew, Steve, and Linda Dashew. Beowulf Publishing, 594 pp. \$69.95. CD-ROM included.  
Phone: (800) 421-3819
- 175 More Science Experiments to Amuse and Amaze Your Friends*  
Cash, T., S. Parker, and B. Taylor, 1990. Random House, New York, 172 pp. ISBN 0-679-80390-4.
- Passport to Weather and Climate*  
Teacher's Guide Pack (64 pages), copy masters of student worksheets and oversize poster. Teacher's Resource Kit includes above plus: 60 min Teacher Resource Video with activity demos by master teachers, animations of hurricanes, tornadoes, El Nino, and more, preview of programs showing People, Places, and Processes. Two Live From the Storm episodes (2 videos). Produced in association with NOAA, NASA, and UCAR.  
Passport to Knowledge, passporttoknowledge.com  
P.O. Box 1587, Morristown, NJ 07962-1587
- Project Earth Science: Meteorology*  
The Weather Channel, 1999, 59 pp. plus 16-page activity book, two posters, and mobile cutout. Free. Collection of weather activities covering most aspects of weather essentials and general aspects of severe weather. Produced in association with the American Red Cross. 1-800-471-5544
- Project Earth Science: Meteorology*  
Smith, P.S., and B. A. Ford, 1994, 233 pp., ISBN 0-87355-123-0. A resource guide which contains readings and activity materials for middle school (Grades 5-10) earth science teachers. One of four guides being prepared in NSTA Project Earth Science series.
- National Science Teachers Association, 1742 Connecticut Avenue, N.W., Washington, DC 20009.
- Puddle Jumpers: Fun Weather Projects for Kids*  
Gillis, J.S., and P. Delmonte, 1996. Storey Communications, ISBN 0-8826938-9. \$9.95.
- The Science Book of Weather*  
Ardley, N., 1992. Gulliver Books, San Diego, 29 pp., ISBN 0-15-200624-9.
- 175 Science Experiments to Amuse and Amaze Your Friends*  
Walpole, B., 1988. Random House, New York, 172 pp., ISBN 0-394-89991-1.
- Science Experiments Index for Young People*  
Pilger, M.A., 1988. Libraries Unlimited, Inc., Englewood, CO, 239 pp., ISBN 0-87287-671-3. 239 pp.
- Science Projects About Weather*  
'Ready-To-Go Activities, Games, Literature Selections, Poetry, and Everything You Need for A Complete Theme Unit,' 1997. SRA, ISBN 0-02686670-6. \$89.00.
- Simple Weather Experiments with Everyday Materials*  
Mandell, M., 1991. Sterling, 128 pp., ISBN 0-8069-7296-3.
- Student Activities in Meteorology (SAM)*  
Gardner, R., and D. Webster, 1994. Enslow Publications, ISBN 0-89490533-3. \$18.95.
- Teacher's Weather Sourcebook: Information, Ideas and Activities*  
Konvicka, T., 1994. Teacher Ideas Press, ISBN 1-563084880. \$25.00.
- Two Suns and a Green Sky: 22 Out-of-This-World Weather Models and Experiments*  
Baker, T.R., 1994. McGraw-Hill, ISBN 0-07005143-7. \$12.95.
- The Weather Classroom. A Complete Workbook for Understanding Meteorology, Climatology, and the Environment*  
Moore, K.W., 1992. The Weather Channel, 300 Interstate North Parkway, Atlanta, GA 30339, 76 pp., ISBN 1-882227-00-X.
- Weather Forecasting: A Young Meteorologist's Guide*  
Ramsey, D., 1990. Tab Books, 146 pp.
- Weather In the Lab*  
Baker, T.R., 1993. TAB Books, Blue Ridge Summit, PA, 145 pp., ISBN 0-8306-4307-9.
- Weather Quiz Deck*  
1999. Scientific American Knowledge Cards. \$9.95  
Phone: (800) 227-1428

- The Weather Report*  
Graf, M., 1989. Fearon Teacher Aids, Belmont, CA, 160 pp., ISBN 0-8224-7511-1.
- Weather (Science Projects)*  
Olade, C., and C. Fairclough, 1998. Raintree/Steck Vaughn, ISBN 0-817249494. \$24.26.
- Weather Station: Activity Fun Pack*  
1998. Dk Pub. Merchandise, ISBN 0-789430061. \$5.95.
- Weather Study Under a Newspaper Umbrella*  
Mogil, H.M., 1989. Curriculum suggestions involving the newspaper and television in geography and weather studies. Additional information about supplementary classroom activities and training workshops. How the Weatherworks, 301 Creek Valley Lane, Rockville, MD 20850. Phone: (301) 762-7669
- Weather Watch*  
Wyatt, V., 1990. Addison-Wesley Publishing Co., Inc., Reading, MA 95 pp., ISBN 0-201-15404-8.

## 5.5. TEXTBOOKS

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- Applications of Weather Radar Systems: A Guide to Uses of Radar Data in Meteorology and Hydrology*  
C.G. Collier, 1996. John Wiley and Sons, Part of Wiley-Prazis Series in Atmospheric Physics, ISBN 0-47196013-6. \$125.00.
- The Atmosphere: An Introduction to Meteorology*  
Lutgens, F.K., E.J. Tarbuck, and D. Tasa, 1997. Prentice Hall, 7th Edition, ISBN 0-13742974-6. \$60.67.
- Atmosphere, Weather, and Climate*  
Barry, R.G., and R.J. Chorley, 1998: Routledge. Hard cover: ISBN 0-41516019-7, \$55.01. Paperback: ISBN 0-41516020-0, \$22.01.
- Economic Value of Weather and Climate Forecasts*  
Katz, R.W., and A.H. Murphy, 1997. Cambridge University Press, ISBN 0-52143420-3. \$49.95.
- Essentials of Weather*  
Moran, J.M., and M.D. Morgan, 1994. Prentice Hall, ISBN 0-02383831-0. \$50.00.
- Images in Weather Forecasting: A Practical Guide for Interpreting Satellite and Radar Imagery*  
Bader, M.J., G.S. Forbes, J.R. Grant, R. Lilley, and A.J. Waters, 1997. Cambridge University Press, 523 pp., ISBN 0-52162915-2. \$59.95.
- Meteorology: The Atmosphere and the Science of Weather*  
Moran, J.M., M.D. Morgan, and P.M. Pauley, 1996. Prentice Hall. Book: ISBN 0-13266701-0, \$60.52. Study Guide: ISBN 0-02383345-9. \$23.74.
- Meteorology Today*  
-*Meteorology Today: An Introduction to Weather, Climate, and the Environment*  
Ahrens, C.D., 1994. West Information Publishing Group, ISBN 0-31402779-3. \$66.95.  
-*Meteorology Today for Scientists and Engineers: A Technical Companion Book*  
Stull, R.B., 1995. West Publishing Company, 355 pp., ISBN 0-314-06471-0.
- Mid-Latitude Weather Systems*  
Carlson, T., 1994. Unwin Hyman, ISBN 0-4510930-2. \$45.00.
- Radar for Meteorologists, Third Ed.*  
Rinehart Publishing, PO Box 6124, Grand Forks, ND 58206-6124
- A World of Weather: Fundamentals of Meteorology. Second Edition*  
Nese, J.M., and L.M. Grecni, editors, 1998. Kendall/Hunt Publishing, 539 pp., ISBN 0-7872-357784. \$52.95.

## 5.6. GOVERNMENT PUBLICATIONS

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Current National Weather Service public service posters, pamphlets, and other materials on natural disaster preparedness are available in several forms. Updated lists are available on the web or from:

Customer Service Core  
National Weather Service Headquarters, NOAA  
1325 East-West Highway, Room 14360  
Silver Spring, MD 20910  
Phone: (301) 713-0090  
Web: [www.nws.noaa.gov/om/nwspub.htm](http://www.nws.noaa.gov/om/nwspub.htm)

Publication	No.	Web
<b><u>Aviation</u></b> A pilot's guide to aviation weather services Aviation modernization	93056 94051	<a href="http://www.nws.noaa.gov/om/pilot.htm">www.nws.noaa.gov/om/pilot.htm</a>

ASOS guide for pilots (Booklet)	96076	<a href="http://www.nws.noaa.gov/om/asosbook.htm">www.nws.noaa.gov/om/asosbook.htm</a>
Key to aerodrome forecast (TAF) & aviation routine weather report (METAR) (Card)	96052	
		<a href="http://www.nws.noaa.gov/oso/oso1/oso12/document/guide.shtml">www.nws.noaa.gov/oso/oso1/oso12/document/guide.shtml</a>
<b><u>Dust storms</u></b>		
Dust storm driving safety (Wallet card)	82002	<a href="http://www.nws.noaa.gov/om/duststrm.htm">www.nws.noaa.gov/om/duststrm.htm</a>
<b><u>Flash floods and floods</u></b>		
Red Cross Poster–Are You Ready for a Flood or a Flash Flood? (English/Spanish)	*92062	
Flash flood (Wallet card)	77014	<a href="http://www.nws.noaa.gov/om/flashfld.htm">www.nws.noaa.gov/om/flashfld.htm</a>
Flash floods and floods . . . The awesome power!	92050	<a href="http://www.nws.noaa.gov/om/ffbros.htm">www.nws.noaa.gov/om/ffbros.htm</a>
The hidden danger–Low water crossing	96074	<a href="http://www.nws.noaa.gov/oh/tt2/xwater/index.shtml">www.nws.noaa.gov/oh/tt2/xwater/index.shtml</a>
Red Cross–Are you ready for a flood or flash flood? –English	92059	<a href="http://www.redcross.org/disaster/safety/floods.html">www.redcross.org/disaster/safety/floods.html</a>
Red Cross–Are you ready for a flood or flash flood? – Spanish	92060	<a href="http://www.redcross.org/disaster/safety/floodspn.html">www.redcross.org/disaster/safety/floodspn.html</a>
River and flood program (Hydrologic services program)	94059	
<b><u>Hazards and preparedness</u></b>		
FEMA's emergency preparedness materials catalog	92054	
SKYWARN decal	92051	
<b><u>Heat waves</u></b>		
Heat wave	85001	<a href="http://www.nws.noaa.gov/om/heatwave.pdf">www.nws.noaa.gov/om/heatwave.pdf</a>
Red Cross–Are you ready for a heat wave? - English	94052	<a href="http://www.redcross.org/disaster/safety/heat.html">www.redcross.org/disaster/safety/heat.html</a>
Red Cross–Are you ready for a heat wave? - Spanish	94056	<a href="http://www.redcross.org/disaster/safety/heatwspn.html">www.redcross.org/disaster/safety/heatwspn.html</a>
<b><u>Hurricanes</u></b>		
Atlantic hurricane names	–	<a href="http://www.nhc.noaa.gov/aboutnames.html">www.nhc.noaa.gov/aboutnames.html</a>
Atlantic hurricane tracking map–8 1/2" by 11"	96071	<a href="http://www.nhc.noaa.gov/gifs/track_chart.gif">www.nhc.noaa.gov/gifs/track_chart.gif</a> (or .pdf)
Atlantic hurricane tracking map–17" by 22"	96072	
Hawaiian hurricane safety measures with Central Pacific tracking chart	85002	
Hurricane! A familiarization booklet	*91001	<a href="http://www.nws.noaa.gov/om/hurfam.pdf">www.nws.noaa.gov/om/hurfam.pdf</a>
Pacific hurricane names	–	<a href="http://www.nhc.noaa.gov/aboutnames.html">www.nhc.noaa.gov/aboutnames.html</a>
Hurricanes . . . Unleashing nature's fury	94050	<a href="http://www.nws.noaa.gov/om/hurrbro.htm">www.nws.noaa.gov/om/hurrbro.htm</a> (or hurr.pdf)
Pacific hurricane tracking map–12" by 24"	96073	
Red Cross–Are you ready for a hurricane? -English	94053	<a href="http://www.redcross.org/disaster/safety/hurricane.html">www.redcross.org/disaster/safety/hurricane.html</a>
Red Cross–Are you ready for a hurricane? - Spanish	94054	<a href="http://www.redcross.org/disaster/safety/hurrspn.html">www.redcross.org/disaster/safety/hurrspn.html</a>
Red Cross Poster–Are you ready for a hurricane? (English/Spanish)	94055	
Survival in a hurricane (Wallet card) - English	70027	<a href="http://www.nws.noaa.gov/om/hurricane.htm">www.nws.noaa.gov/om/hurricane.htm</a>
Survival in a hurricane (Wallet card) - Spanish	85006	<a href="http://www.nws.noaa.gov/om/hurrspan.htm">www.nws.noaa.gov/om/hurrspan.htm</a>
<b><u>Marine</u></b>		
Mariner's guide to marine weather services (Booklet)	92056	<a href="http://www.nws.noaa.gov/om/marine2.htm">www.nws.noaa.gov/om/marine2.htm</a>
Safe boating weather tips	94058	<a href="http://www.nws.noaa.gov/om/safeboat.htm">www.nws.noaa.gov/om/safeboat.htm</a>
Tsunami: The Great Wave	–	<a href="http://www.nws.noaa.gov/om/tsunami.htm">www.nws.noaa.gov/om/tsunami.htm</a>
<b><u>Natural hazards</u></b>		
FEMA's Emergency Preparedness Materials Catalog	92054	
Natural hazard watch & warning poster - English	86001	<a href="http://www.nws.noaa.gov/om/nh-mastr.htm">www.nws.noaa.gov/om/nh-mastr.htm</a>
Natural hazard watch & warning poster - Spanish	86001	<a href="http://www.nws.noaa.gov/om/nh-massp.htm">www.nws.noaa.gov/om/nh-massp.htm</a>
<b><u>NOAA</u></b>		
A change in the National Weather Service	93059	
National Centers for Environmental Prediction	96051	
NOAA Brochure	92501	
NOAA Weather Radio brochure	96070	<a href="http://www.nws.noaa.gov/nwr/nwrback.htm">www.nws.noaa.gov/nwr/nwrback.htm</a> (or nwr.pdf)
NOAA Weather Radio decal	96053	
NOAA Weather Radio frequency pamphlet	94061	
<b><u>Severe thunderstorms</u></b>		
Advanced spotter's field guide	92055	<a href="http://www.nws.noaa.gov/om/advspg.pdf">www.nws.noaa.gov/om/advspg.pdf</a>

Basic spotters' field guide	97050	<a href="http://www.nws.noaa.gov/om/basicspot.pdf">www.nws.noaa.gov/om/basicspot.pdf</a>
Owlie Skywarn - Watch out storms ahead	82004	<a href="http://www.crh.noaa.gov/mkx/owlie/owlie.htm">www.crh.noaa.gov/mkx/owlie/owlie.htm</a>
Red Cross Poster—Are you ready for a thunderstorm? (English/Spanish)	*93053	
Red Cross—Are you ready for a thunderstorm? (Spanish)	93052	
Spotter ID card	93060	
Thunderstorms and lightning . . . The underrated killers	92053	<a href="http://www.nws.noaa.gov/om/trwbro.htm">www.nws.noaa.gov/om/trwbro.htm</a> (or <a href="#">tstorm.pdf</a> )
<b><u>Tornadoes</u></b>		
Red Cross—Are you ready for a tornado?	92057	<a href="http://www.redcross.org/disaster/safety/tornados.html">www.redcross.org/disaster/safety/tornados.html</a>
Red Cross—Are you ready for a tornado? (Spanish)	92058	<a href="http://www.redcross.org/disaster/safety/tornaspn.html">www.redcross.org/disaster/safety/tornaspn.html</a>
Red Cross Poster—Are you ready for a tornado? (English/Spanish)	*92061	
Tornadoes . . . Nature's most violent storms	92052	<a href="http://www.nws.noaa.gov/om/tornado.htm">www.nws.noaa.gov/om/tornado.htm</a> (or <a href="#">tornado.pdf</a> )
Tornado safety tips (Como protegerse en caso de tornado (Wallet card)	85005	
<b><u>Winter storms</u></b>		
Red Cross—Are you ready for a winter storm?	91003	<a href="http://www.redcross.org/disaster/safety/winter.html">www.redcross.org/disaster/safety/winter.html</a>
Red Cross—Are you ready for a winter storm? (Spanish)	91004	<a href="http://www.redcross.org/disaster/safety/wintrspn.html">www.redcross.org/disaster/safety/wintrspn.html</a>
Red Cross Poster—Are you ready for a winter storm? (English/Spanish)	91005	
Winter storms . . . The deceptive killers	91002	<a href="http://www.nws.noaa.gov/om/wnrtrstm.htm">www.nws.noaa.gov/om/wnrtrstm.htm</a>

\* Available only from your local Red Cross chapter

# Text only available at [www.nws.noaa.gov/om.nwspub.htm](http://www.nws.noaa.gov/om.nwspub.htm)

•**National Weather Service, NOAA**

*Owlie Skywarn* series of severe weather booklets.

*Reports to the Nation, Our changing planet: El niño and climate prediction.* Spring 1994, UCAR and NOAA, 24 pp.

*Reports to the Nation: Our changing planet.* Fall 1997, UCAR and NOAA, 24 pp.

For these and other reports, a free NOAA school information service letter can be obtained from:  
NOAA Public Affairs Office, Room 6013, HCHB, U.S. Dept. of Commerce, Washington, DC 20230

•**Ozone**

A free booklet on atmospheric ozone is available from:  
NOAA Office of Global Programs, 1100 Wayne Avenue, Room 1225, Silver Spring, MD 20910

•**Superintendent of Documents**

A listing of low-cost government publications applicable to weather is available free of charge by writing to:  
Weather, Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

## 5.7. WEATHER-RELATED PERIODICALS

•**Bulletin of the American Meteorological Society**

Official bulletin of the AMS. Contains announcements of meetings, book reviews, articles, conference schedules, and position statements on educational affairs. ISSN 0003-0007.

American Meteorological Society, 45 Beacon Street, Boston, MA 02108-3693.

Phone: (617) 227-2425

Web: [www.ametsoc.org](http://www.ametsoc.org)

•**Stormtrack**

Bimonthly black-and-white magazine about storm chasing, primarily of tornadic storms on the U.S. plains states. Tim Marshall, 4041 Bordeaux Circle, Flower Mound, TX 75028-7050. \$15.00 per year.

Web: [www.stormtrack.org](http://www.stormtrack.org)

•**Weather**

A non-technical weather-oriented magazine with color photos, published monthly by the Royal Meteorological Society, 104 Oxford Road, Reading, Berkshire RG1 7LL, England. ISSN 0043-1656. £30 per year.

Email: [execsec@royal-met-soc.org.uk](mailto:execsec@royal-met-soc.org.uk)

•**Weather Bulletin**

A non-technical black-and-white quarterly magazine emphasizing severe weather in Texas and nearby states. Texas Severe Storms Association, P.O. Box 122222, Arlington, TX 76012. \$14.00 per year.

Web: [www.tessa.org](http://www.tessa.org)

•*Weatherwise*

Bimonthly color non-technical magazine about the weather, directed toward the layperson, and ideal for teachers and students. In addition to informative articles, it has features such as simple experiments, reviews of

audiovisuals, and an annual summary of weather events across the U.S. and Canada.  
Heldref Publications, 1319 18th Street N.W., Washington, DC 20036-1802. ISSN 0043-1672. \$29.00 per year.  
Web: [www.heldref.org/ww/ww/html](http://www.heldref.org/ww/ww/html)

## 5.8. OTHER SCIENCE PERIODICALS

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•*American Red Cross*

General Supply Division, 7401 Lockport Place, Lorton, VA 22079

•*Current Science*

Weekly Reader Corp., 200 First Stamford Place, P.O. Box 120023, Stamford, CT 06912-0023  
Phone: (800) 446-3355  
Web: [weeklyreader.com/features/cs/html](http://weeklyreader.com/features/cs/html)

•*Earth*

Published bimonthly. ISSN 1056-148X.  
Kalmbach Publishing Company, 21027 Crossroads Circle, Waukesha, WI 53187.  
Phone: (414) 796-8776

•*GLOBE offLINE*

Quarterly journal of GLOBE program.  
Web: [www.globe.gov](http://www.globe.gov)

•*Natural Hazards Observer*

Institute of Behavioral Science #6, University of Colorado, Campus Box 482, Boulder, CO 80308  
Web: [www.Colorado.EDU/hazards/](http://www.Colorado.EDU/hazards/)

•*Science*

Published weekly by the AAAS. ISSN 0036-8075.  
American Association for the Advancement of Science, 1333 H Street, N.W., Washington, DC 20005-4792.  
Phone: (202) 326-6670  
Web: [www.aaas.org](http://www.aaas.org)

•*Science News*

Published weekly. ISSN 0036-8423.  
1719 N Street N.W., Washington, DC 20036.  
Phone: (202) 785-2255

•*Scientific American*

Published monthly. In addition to occasional weather-related articles, features such as 'The Amateur Scientist' may be of interest.  
415 Madison Avenue, New York, NY 10017.  
Phone: (800) 333-1199

Past issues on meteorology can be obtained from:  
W.H. Freeman and Company, 660 Market Street, San Francisco, CA 94104

## 5.9. INSTRUCTIONAL PERIODICALS

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Several publications from educational organizations occasionally contain weather- information directed toward the classroom teacher. They include articles, lab or demonstration hints, and book and software reviews.

•*Earth Notes*

Published quarterly for educators for Grades K-6. Provides a forum for the exchange of ideas in elementary-level environmental education.

Environmental Protection Agency, Public Information Center, 401 M Street, S.W., Washington, DC 20460.  
Phone: (202) 290-7751

•*The Earth Scientist*

The National Earth Science Teachers Association (NESTA) publishes *The Earth Scientist* 4 times a year. Each issue specializes in geology, astronomy, meteorology, or oceanography. Recent weather articles of 4 to 8 pages in length were on the topics of lightning, lightning safety, heat waves, microbursts, weather forecast terms, mesoscale convective systems, supercell thunderstorms, multiple-vortex tornadoes, lightning, sprites, and hail.

Jan Woerner, Editor, 35201 Hollow Creek Drive, Yucaipa, CA 92399-5905

•*National Science Teachers Association (NSTA)*

The national professional organization of science teachers publishes a series of periodicals for teachers.

1742 Connecticut Ave., NW, Washington, DC 20009  
Phone: (202) 328-5800  
Fax: (202) 328-0974

*Science and Children*

8 issues a year for elementary and middle-school teachers.

*Science Scope*

6 issues a year for middle and high school science teachers.

*The Science Teacher*

9 issues a year for junior and senior high school science teachers.

*The Journal of College Science Teaching*

6 issues a year for undergraduate college science teachers.

•*The Physics Teacher*

Published monthly from September to May for middle-school and secondary-school science teachers.

American Association of Physics Teachers (AAPT), 5112 Berwyn Road, College Park, MD 20740-4100.

•*Science Activities*

Published quarterly for K-12 teachers, on biological, physical, and behavioral sciences. Includes descriptions of experiments and projects, features on products, computers, and book reviews..

Heldref Publications, 1319 18th Street N.W., Washington, DC 20036-1802.

Phone: (800) 365-9753

Web: www.heldref.org

## 5.10. WEATHER ALMANACS AND CALENDARS

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Almanacs and calendars containing weather and climate information can be informative and stimulate interest in weather. Some calendars are distributed nationally and usually provide listings of significant weather events that have occurred in various areas of the country. National weather statistics and topics are given in capsulated form. Calendars distributed locally may have more daily information pertinent to the region, such as daily records or extreme temperatures, precipitation, and sunrise and sunset times. A complete listing of these local weather calendars is not provided.

•*Accord Calendars (2000)*

*Weather Guide* wall calendar \$8.95

*Weather Whys and Wonders* desk calendar \$7.95

Accord Publishing Ltd., 1407 Larimer Square, Suite 206, Denver, CO 80202-1723.

Phone: (303) 595-3839

•*Bob Ryan's Weatherwise Guide and Almanac*

WRC-TV 4, 4001 Nebraska Avenue, N.W., Washington, DC 20016.

•*Environment Canada*

Fifth House Publishers.

Phone: (800) 360-8826.

•*Minnesota Weatherguide/Environment Calendar*

Freshwater Foundation at Spring Hill Center, 725 County Road 6, Wayzata, MN 55391.

•*Royal Meteorological Society Calendar*

104 Oxford Road, Reading, Berkshire RG1 7LL, England.

Email: execsec@royal-met-soc.org.uk

•*Vermont Life Weather Calendar*

Alan C. Hood and Company, 0-93690647-7. \$9.95.

•*Washington DC Weather Calendar*

D.C. Chapter of the American Meteorological Society, P.O. Box 13567, Silver Spring, MD 20911-3557.

•*2000 Weather Calendar*

St. Martins Press, ISBN 0-789302071. \$11.95.

•*The Weather Channel*

The Weather Channel, 300 Interstate North Parkway, Atlanta, GA 30339.

Web: www.weather.com

## 6. INSTRUMENTS AND OTHER EQUIPMENT

Since meteorology is an observational science, instruments play an important role in gathering information about the atmosphere. Weather stations can be built and outfitted with weather instruments, but they typically are expensive, so price comparisons should be made prior to purchase. Catalogues and price lists may be obtained from reputable scientific supply houses. Selected updated address lists of suppliers of scientific and instructional equipment can be found in the annual issue of the *Science Education Suppliers Supplement* and other publications from the National Science Teachers Association (NSTA):

1742 Connecticut Avenue, N.W., Washington, DC 20009-1171.

Phone: (202) 328-5800

Before purchasing weather instruments, the following references should be read:

Snow, J.T., and S.B. Harley, 1987: Basic meteorological observations for schools: Temperature. *Bulletin of the American Meteorological Society*, **68**, 486-496.

Snow, J.T., and S.B. Harley, 1988: Basic meteorological observations for schools: Rainfall. *Bulletin of the American Meteorological Society*, **69**, 497-507.

Snow, J.T., M.E. Akridge, and S.B. Harley, 1989: Basic meteorological observations for schools: Surface winds. *Bulletin of the American Meteorological Society*, **70**, 493-508.

Snow, J.T., M.E. Akridge, and S.B. Harley, 1992: Basic meteorological observations for schools: Atmospheric pressure. *Bulletin of the American Meteorological Society*, **73**, 781-794.

Virgo, S.E., 1976: Some simply made and inexpensive meteorological instruments. *Weather*, **31**, 404-411.

### 6.1. WEATHER KITS

To aid teachers with limited experience in weather instrumentation, several supply companies package sets of instruments and other instruction materials which can be used as a self-contained kit for weather study. Some teachers create their own weather kits from an assortment of materials, or augment the kits with additional instruments.

Suggested components for a weather kit are a thermometer, maximum/minimum thermometer, soil thermometer, anemometer, rain gauge, sling psychrometer, radio-meter, sundial, barometer, barographs, and thermograph. Other desirable features include an atmosphere chart, a good book, weather log, and five-day weather watch.

#### •Beginner's Pack

Barometer, maximum/minimum thermometer, radio-meter, rain gauge, wind meter, cloud chart, weather guide, and weather log. \$88.00 plus \$5.50 shipping.

#### •Box Topics: Storms and Weather Forecasting

Pullouts, flip cards, stickers, and activity book. \$34.95.

1997, Briarpatch, P.O. Box 604, Short Hills, NJ 07079.

#### •Children's Pack

Five-day weather watcher, radiometer, sundial, cloud chart, tornado tube, weather information cloud chart, and weather activity book. \$25.00 plus \$5.00 shipping.

Wind and Weather, The Albion Street Water Tower, P.O. Box 2320, Mendocino, CA 95460.

Phone: (800) 922-9463

#### •Storm Watch

Book and air balance forecasting station. \$14.95.

#### •Water Watch Kit

Book, rain gauge, and acid rain test kit. \$14.95.

#### •Weather Guide Photo Anthology I & II

Postcard collection of photos from Weather Guide Calendars. \$6.95 for both volumes.

Accord Publishing Ltd., 1407 Larimer Square, Suite 206, Denver, CO 80202-1723

Phone: (303) 595-3839

#### •Weather Watcher Kit

Maximum/minimum thermometer, 2-inch rain gauge, and handbooks. \$16.90.

Fisher Scientific

Phone: (800) 621-4769

### 6.2. WEATHER INSTRUMENT & SCIENCE EQUIPMENT SUPPLIERS

Several companies only supply weather instruments for professional purposes or the serious amateur. Usually, instruments obtained from these supply houses are of high quality and may be expensive. Other companies have instruments for a range of disciplines and educational institutions. They stock some instruments for the home and

school. These instruments usually suffice for beginners and the more casual weather observer. In addition, some suppliers have instructional materials, as in other sections of this publication. Companies usually will furnish catalogs on request. Some models and teaching aids are also offered.



American Weather Enterprises  
P.O. Box 1383  
Media, PA 19063

Beckley-Cardy  
917 Hickory Lane  
Mansfield, OH 44901-8105

Carolina Biological Supply Co.  
2700 York Road  
Burlington, NC 27215-5551

Central Scientific (CENCO)  
11222 Melrose Avenue  
Franklin Park, IL 60131  
Phone: (800) 262-3626  
Fax: (708) 451-0231

Clearvue  
6465 North Avondale Avenue  
Chicago, IL 60631-1996  
Phone: (800) 253-2788  
Fax: (800) 444-9855  
Web: [www.clearvue.com](http://www.clearvue.com)

Cloud Chart, Inc.  
P.O. Box 21298  
Charleston, SC 29413  
Phone: (843) 577-5268

Davis Instruments  
3465 Diablo Avenue  
Hayward, CA 94545-2778  
Phone: (800) 678-3669  
Fax: (510) 670-0589  
Email: [info@davisnet.com](mailto:info@davisnet.com)

Delta Education  
P.O. Box 3000  
Nashua, NH 03061-3000  
Phone: (800) 442-5444  
Fax: (800) 282-9560  
Web: [www.delta-ed.com](http://www.delta-ed.com)

Edmund Scientific  
101 East Gloucester Pike  
Barrington, NJ 0800  
Product information:  
(609) 573-6879  
Orders: Phone: (609) 547-8800  
Fax: (609) 573-6295

ETA  
620 Lakeview Parkway  
Vernon Hills, IL 60061-1838  
Phone: (800) 445-5985  
Fax: (800) ETA--9326  
Web: [www.etauniverse.com](http://www.etauniverse.com)

Fisher Scientific Co.  
4901 West LeMoyné Street  
Chicago, IL 60651  
Phone: (800) 621-4769

Forestry Suppliers, Inc.  
P.O. Box 8397  
205 West Rankin Street  
Jackson, MS 39284-8397  
Phone: (800) 647-5368  
Fax: (800) 543-4203  
Web: [www.forestry-suppliers.com](http://www.forestry-suppliers.com)

Frey Scientific Co.  
905 Hickory Lane  
Mansfield Lane  
Mansfield, OH 44905  
Phone: (800) 225-FREY

H & R Corporation  
401 East Erie Avenue  
Philadelphia, PA 19134

Hubbard Scientific  
P.O. Box 104  
Northbrook, IL 60065  
Phone: (800) 221-9884  
(312) 272-7810

Nasco Science  
901 Janesville Avenue  
Fort Atkinson, WI 53538-0901  
Phone: (800) 558-9595  
Fax: (414) 563-8296

Nasco West  
1524 Princeton Avenue  
Modesto, CA 95352-3837  
Phone: (209) 529-6957  
Fax: (209) 529-2239

Northeast Discount Weather Catalog  
Viking Instruments, Inc.  
524 Main Street  
South Weymouth, MA 02190  
Fax: (781)331-9040  
Orders: (800) 325-0360

NovaLynx Corp. (Division of Qualimetrics, Inc.)  
WeatherMeasure and Weathertronics  
P.O. Box 240  
Grass Valley, CA 95945-0240  
Phone: (916) 477-5226  
Fax: (916) 477-8339

PGC Scientifics  
9161 Industrial Court  
Gaithersburg, MD 20877  
Phone: (800) 424-3300  
(301) 840-1111  
Fax: (301) 9990-0740

Radio Shack  
One Tandy Center  
Fort Worth, TX 76102

Robert E. White Instruments, Inc.  
34 Commercial Wharf  
Boston, MA 02110  
Phone: (800) 992-3045

Schoolmasters Science  
745 State Circle Box 1941  
Ann Arbor, MI 48106  
Phone: (800) 521-2832  
Fax: (800) 654-4321  
Email: schscience@aol.com  
Web: www.schoolmasters.com

Science Associates  
31 Airpark Road  
Box 320  
Princeton, NJ 08542

Science Kit and Boreal Laboratories  
777 East Park Drive  
Tonawanda, NY 14150  
Phone: (800) 828-7777

Simerl Instruments  
238 West Street  
Annapolis, MD 21401  
Phone: (301) 849-8667

Teacher's Video Company  
P.O. Box SCE-4455  
Scottsdale, AZ 85261  
Phone: (800) 262-8837  
Fax: (602) 860-8560  
Web: www.teachtsp.com

Tom Snyder Productions  
80 Coolidge Hill Road  
Watertown, MA 02172-2817  
Phone: (800) 342-0236  
Fax: (617) 926-6222  
Web: www.teachtsp.com

Storm Tech  
P.O. Box 474  
Hales Corners, WI 53130

Taylor Scientific Instrument  
95 Glenn Bridge Road  
Arden, NC 28704

Viking Instruments  
The Northeast Discount Weather Catalog  
532 Pond Street  
South Weymouth, MA 02190  
Phone: (800) 325-0360

VWR Scientific Products  
P.O. Box 5229  
Buffalo Grove, IL 60089  
Phone: (800) 727-4368  
Fax: (800) 676-2540  
Email: sarwel@sargentwelch.com  
Web: www.sargentwelch.com

Ward's Natural Science Establishments, Inc.  
5199 West Henrietta Road  
P.O. Box 92912  
Rochester, NY 14692-9012  
Phone: (716) 359-2502  
(800) 962-2660

Weatherwise Affects  
440 Middlesex Road  
Tyngsboro, MA 01879  
Phone: (978) 649-8387  
Email: wxaffects@aol.com  
Web: www.weatheraffects.com

Weatherwise Books and Instruments  
Main Street  
New London, NH 03527

How the WeatherWorks  
301 Creek Valley Lane  
Rockville, MD 20850  
Phone: (301) 762-7669  
Phone: (orders only) 1-800-8CLOUD9

Wind and Weather  
P.O. Box 2320  
Mendocino, CA 95460  
Phone: (707) 937-0323

## 7. COMPUTER/INTERNET

### 7.1. WEATHER AND CLIMATE ON THE WEB

Current weather data can be obtained on the web. Electronic media are rapidly expanding and changing, so keeping track of updates and address changes for favorite weather web sites is suggested. Since the income of many providers comes from the timeliness of the information, time

lags are introduced before data access is opened to the public. These delays may range from 15 minutes to an hour or more until the information is considered too old to be of commercial value. While this list is not exhaustive, most addresses link to related sites.

Climate Change  
Climate Prediction Center  
Colorado Climate Center  
El Niño/La Niña  
NOAA  
National Climatic Data Center  
National Weather Service  
UCAR  
Environmental News Network  
Environmental Protection Agency  
Climate Summaries for Cities and States  
Human Dimension of Climate/Meteorological Hazard  
National Climatic Data Center, NOAA  
Worldwide Weather Events of 1991-2000

AccuWeather  
CNN Weather  
Forecast Systems Laboratory, NOAA  
NCAR - UNIDATA  
NWS - Interactive Weather Information Network  
Oklahoma Weather Roundup  
Pennsylvania State University  
Purdue University - UNISYS  
Texas A & M University  
The Weather Underground, University of Michigan  
University of Wisconsin  
USA Today Weather Page  
The Weather Channel  
Weather Links  
WGN-TV, Chicago  
Wind Profilers

Federal Emergency Management Agency (FEMA)  
Building Performance Assessment Team  
Hazardous Weather and Flood Guide  
Taking Shelter From the Storm  
Weather Information for Kids

NASA  
Education  
Marshall Space Flight Center  
Satellites – Weather  
Spaceflight Meteorology Group

#### Climate

[www.cip.ogp.noaa.gov](http://www.cip.ogp.noaa.gov)  
[www.cpc.noaa.gov](http://www.cpc.noaa.gov)  
[ulysses.atmos.colostate.edu](http://ulysses.atmos.colostate.edu)  
  
[www.elnino.noaa.gov](http://www.elnino.noaa.gov)  
[ibis.grdl.noaa.gov/SAT/near\\_rt/enso/topex\\_97.html](http://ibis.grdl.noaa.gov/SAT/near_rt/enso/topex_97.html)  
[www.cpc.noaa.gov/products/analysis\\_monitoring/impacts/enso.html](http://www.cpc.noaa.gov/products/analysis_monitoring/impacts/enso.html)  
[www.esig.ucar.edu/un/index.html](http://www.esig.ucar.edu/un/index.html)  
[www.enn.com/specialreports/climate/](http://www.enn.com/specialreports/climate/)  
[www.epa.gov/globalwarming/](http://www.epa.gov/globalwarming/)  
[www.cdc.noaa.gov/USclimate](http://www.cdc.noaa.gov/USclimate)  
[www.fragilecolonies.com/mglantz](http://www.fragilecolonies.com/mglantz)  
[www.ncdc.noaa.gov/](http://www.ncdc.noaa.gov/)  
[www.ncdc.noaa.gov/ol/reports/weather-events.html](http://www.ncdc.noaa.gov/ol/reports/weather-events.html)

#### Current U.S. Weather

[www.accuwx.com](http://www.accuwx.com)  
[www.cnn.com/WEATHER/index.html](http://www.cnn.com/WEATHER/index.html)  
[www.fsl.noaa.gov/docs/wthr/fsl-weather.html](http://www.fsl.noaa.gov/docs/wthr/fsl-weather.html)  
[www.rap.ucar.edu/weather/  
weather.gov/](http://www.rap.ucar.edu/weather/weather.gov/)  
[wwwcaps.ou.edu/wx/](http://wwwcaps.ou.edu/wx/)  
[www.ems.psu.edu/wx/](http://www.ems.psu.edu/wx/)  
[weather.unisys.com/](http://weather.unisys.com/)  
[www.met.tamu.edu/weather.shtml](http://www.met.tamu.edu/weather.shtml)  
[cirrus.sprl.umich.edu/wxnet/](http://cirrus.sprl.umich.edu/wxnet/)  
[www.ssec.wisc.edu/data/](http://www.ssec.wisc.edu/data/)  
[www.usatoday.com/weather/](http://www.usatoday.com/weather/)  
[www.weather.com](http://www.weather.com)  
[cirrus.sprl.umich.edu/wxnet/servers.html](http://cirrus.sprl.umich.edu/wxnet/servers.html)  
[www.wgntv.com](http://www.wgntv.com)  
[www-dd.fsl.noaa.gov/online.html](http://www-dd.fsl.noaa.gov/online.html)

#### Federal Agencies (Except NOAA)

[www.fema.gov](http://www.fema.gov)  
[www.fema.gov/mit/bpat/](http://www.fema.gov/mit/bpat/)  
[www.fema.gov/library/toc.doc](http://www.fema.gov/library/toc.doc)  
[www.fema.gov/saferoom/](http://www.fema.gov/saferoom/)  
[www.fema.gov/kids](http://www.fema.gov/kids)

[www.nasa.gov](http://www.nasa.gov)  
[www.hq.nasa.gov/office/coddef/education](http://www.hq.nasa.gov/office/coddef/education)  
[www1.msfc.nasa.gov/](http://www1.msfc.nasa.gov/)  
[www.hq.nasa.gov/office/pao/History/weathsat.html](http://www.hq.nasa.gov/office/pao/History/weathsat.html)  
[spaceflight.nasa.gov/realdata/weather/](http://spaceflight.nasa.gov/realdata/weather/)

Tropical Rainfall Measuring Mission (TRMM)	<a href="http://trmm.gsfc.nasa.gov/">trmm.gsfc.nasa.gov/</a>
National Center for Atmospheric Research (NCAR)	<a href="http://www.ncar.ucar.edu/">www.ncar.ucar.edu/</a>
Atmospheric Technology Division	<a href="http://www.atd.ucar.edu">www.atd.ucar.edu</a>
COMET	<a href="http://www.comet.ucar.edu">www.comet.ucar.edu</a>
MM5 Computer Model	<a href="http://rain.mmm.ucar.edu/mm5/pages/simple.html">rain.mmm.ucar.edu/mm5/pages/simple.html</a>
Photo Archive	<a href="http://www.dir.ucar.edu/iss/dmc/">www.dir.ucar.edu/iss/dmc/</a>
Time	<a href="http://time.gov">time.gov</a>
Time Zone Conversions	<a href="http://atm.geo.nsf.gov/ieis/time.html">atm.geo.nsf.gov/ieis/time.html</a>
Water Information – USGS	<a href="http://water.usgs.gov/droplet">water.usgs.gov/droplet</a>
Univ. Corp. for Atmospheric Research (UCAR)	<a href="http://www.ucar.edu">www.ucar.edu</a>
USGS Real-time Streamflow and Lake Level Data	<a href="http://water.usgs.gov/public/realtime.html">water.usgs.gov/public/realtime.html</a>

### **Foreign Weather**

All Foreign Weather Agencies (World Meteorological Organization)	<a href="http://www.wmo.ch">www.wmo.ch</a>
Australia	<a href="http://www.bom.gov.au">www.bom.gov.au</a>
Brazil (Portuguese)	<a href="http://www.cbn.net.id/commerce/bmg/">www.cbn.net.id/commerce/bmg/</a>
Canada	
Canadian Meteorological Centre	<a href="http://www.cmc.ec.gc.ca/indexe.html">www.cmc.ec.gc.ca/indexe.html</a>
Canadian Storm Chasers	<a href="http://www.interlog.com/~jmckay/chaser.htm">www.interlog.com/~jmckay/chaser.htm</a>
Environment Canada (English and French)	<a href="http://www.msc-smc.ec.gc.ca/index_e.cfm">www.msc-smc.ec.gc.ca/index_e.cfm</a>
Montréal (French)	<a href="http://www.meteo.org/">www.meteo.org/</a>
Finland	<a href="http://www.geo.fmi.fi">www.geo.fmi.fi</a>
France (French)	<a href="http://www.meteo.fr">www.meteo.fr</a>
Hungary (Hungarian)	<a href="http://www.met.hu">www.met.hu</a>
Indonesia	<a href="http://www.cbn.net.id/commerce/bmg/">www.cbn.net.id/commerce/bmg/</a>
Spain (Spanish)	<a href="http://www.inm.es">www.inm.es</a>
Worldwide 5-day Forecasts	<a href="http://weather.yahoo.com">weather.yahoo.com</a>

### **Lightning**

Alberta, Canada Lightning (Fire Weather)	<a href="http://www.gov.ab.ca/env/forests/fpd/ld.html">www.gov.ab.ca/env/forests/fpd/ld.html</a>
Children's Lightning Safety	
Sabrina Harwood	<a href="http://www.azstarnet.com/~anubis/zaphome.htm">www.azstarnet.com/~anubis/zaphome.htm</a>
Kids' Safety Essay	<a href="http://www.strikingimages.com/safety.htm">www.strikingimages.com/safety.htm</a>
Global Atmospherics, Inc.	<a href="http://www.glatmos.com">www.glatmos.com</a>
Lightning Safety Group Recommendations	<a href="http://www.glatmos.com/lightinfo/recommendations.html">www.glatmos.com/lightinfo/recommendations.html</a>
Lightning Strike and Electric Shock Survivors International, Inc.	<a href="http://www.mindspring.com/~lightningstrike">www.mindspring.com/~lightningstrike</a>
National Lightning Safety Institute	<a href="http://www.lightningsafety.com">www.lightningsafety.com</a>
Optical Transient Detector	<a href="http://www.ghcc.msfc.nasa.gov/otd.html">www.ghcc.msfc.nasa.gov/otd.html</a>
Sprites and Jets	<a href="http://elf.gi.alaska.edu">elf.gi.alaska.edu</a>
Striking Images	<a href="http://www.strikingimages.com">www.strikingimages.com</a>
Univ. of Illinois at Chicago - Medical/Dr. Cooper	<a href="http://www.uic.edu:80/~macooper/cindex.htm">www.uic.edu:80/~macooper/cindex.htm</a>

### **Meteorological Education Sites**

American Meteorological Society (AMS)	<a href="http://www.ametsoc.org/AMS/amsedu/index.html">www.ametsoc.org/AMS/amsedu/index.html</a>
Blue Hill Observatory	<a href="http://www.bluehill.org">www.bluehill.org</a>
Careers in Atmospheric Science	<a href="http://www.ametsoc.org/AMS/AtmosCareers/">www.ametsoc.org/AMS/AtmosCareers/</a>
COMET	<a href="http://comet.ucar.edu">comet.ucar.edu</a>
COMET – Meteorological Education	<a href="http://meted.ucar.edu">meted.ucar.edu</a>
DataStreme - University of Wisconsin	<a href="http://www.meteor.wisc.edu/~hopkins/ams/">www.meteor.wisc.edu/~hopkins/ams/</a>
Dictionary of Science (Academic Press)	<a href="http://www.harcourt.com/dictionary">www.harcourt.com/dictionary</a>
GLOBE	<a href="http://www.globe.gov">www.globe.gov</a>
Glossary of Weather	<a href="http://www.weather.com/glossary/wx_glossary_a.html">www.weather.com/glossary/wx_glossary_a.html</a>
How the WeatherWorks	<a href="http://www.weatherworks.com">www.weatherworks.com</a>
Jobs for Meteorologists	<a href="http://bluesky.ecas.ou.edu/~sstrum/wxcomps.html">bluesky.ecas.ou.edu/~sstrum/wxcomps.html</a>
One Sky, Many Voices Project	<a href="http://groundhog.sprl.umich.edu">groundhog.sprl.umich.edu</a>
Oakfield, Wisconsin Tornado	<a href="http://cimss.ssec.wisc.edu/oakfield/cs1.htm">cimss.ssec.wisc.edu/oakfield/cs1.htm</a>
SkyMath: Making Mathematical Connections	<a href="http://www.unidata.ucar.edu/staff/blynds/Skymath.html">www.unidata.ucar.edu/staff/blynds/Skymath.html</a>
Tornadoes: Going Around in Circles	<a href="http://whyfiles.news.wisc.edu/013tornado/">whyfiles.news.wisc.edu/013tornado/</a>

University of Illinois  
Weather and Atmosphere Curriculum  
The Weather World 2010 Project  
Weather (various exhibits)  
USA Today Weather Page  
The Weather Channel  
World Meteorological Organization

[athena.wednet.edu/curric/index.html](http://athena.wednet.edu/curric/index.html)  
[ww2010.atmos.uiuc.edu](http://ww2010.atmos.uiuc.edu)  
[www.learner.org/exhibits/weather](http://www.learner.org/exhibits/weather)  
[www.usatoday.com/weather/](http://www.usatoday.com/weather/)  
[www.weather.com/education/index.html](http://www.weather.com/education/index.html)  
[www.wmo.ch/web/etr/etrp98.html](http://www.wmo.ch/web/etr/etrp98.html)

### **Meteorological and Science Organizations**

American Assoc. for the Advancement of Science  
American Geophysical Union (AGU)  
American Meteorological Society (AMS)  
Local AMS Chapters  
National Weather Association (NWA)  
Local NWA Chapters  
Stormtrack Magazine  
World Meteorological Organization (WMO)

[www.aaas.org](http://www.aaas.org)  
[www.agu.org](http://www.agu.org)  
[www.ametsoc.org/AMS/](http://www.ametsoc.org/AMS/)  
[www.ametsoc.org/AMS/amschaps/index.html](http://www.ametsoc.org/AMS/amschaps/index.html)  
[www.nwas.org](http://www.nwas.org)  
[www.nwas.org/chapters.html](http://www.nwas.org/chapters.html)  
[www.storm-track.com/](http://www.storm-track.com/)  
[www.wmo.ch](http://www.wmo.ch)

### **Meteorology at U.S. Universities**

All Meteorology Colleges and Universities in World  
Arizona State University  
Colorado State University  
Bill Gray's Atlantic Seasonal Hurricane Forecast  
Florida State University  
Georgia Institute of Technology  
Harvard University  
Iowa State University  
Jackson State University  
Lyndon State College  
Massachusetts Institute of Technology  
Northern Illinois University  
Ohio State University - Daily Severe Weather Log  
Oregon State University  
Pennsylvania State University  
Purdue University  
Saint Louis University  
State University of New York at Albany  
Texas A & M University  
University of Alabama at Huntsville  
University of Arizona  
University of California at Los Angeles  
University of Chicago  
University of Georgia  
University of Hawaii  
University of Illinois  
University of Maryland  
University of Miami  
University of Michigan  
University of Oklahoma  
University of Utah  
University of Washington  
University of Wisconsin  
University of Wyoming

[www.ugems.psu.edu/~owens/WWW\\_Virtual\\_Library/metschool.html](http://www.ugems.psu.edu/~owens/WWW_Virtual_Library/metschool.html)  
[saguaro.la.asu.edu/geography](http://saguaro.la.asu.edu/geography)  
[www.cira.colostate.edu](http://www.cira.colostate.edu)  
[typhoon.atmos.colostate.edu/forecasts/](http://typhoon.atmos.colostate.edu/forecasts/)  
[www.met.fsu.edu](http://www.met.fsu.edu)  
[www.eas.gatech.edu/eas.html](http://www.eas.gatech.edu/eas.html)  
[www-as.harvard.edu](http://www-as.harvard.edu)  
[www.public.iastate.edu/~wxintro/atmos.html](http://www.public.iastate.edu/~wxintro/atmos.html)  
[santa.jsums.edu](http://santa.jsums.edu)  
[apollo.lsc.vsc.edu](http://apollo.lsc.vsc.edu)  
[www-eaps.mit.edu](http://www-eaps.mit.edu)  
[taiga.geog.niu.edu/main.html](http://taiga.geog.niu.edu/main.html)  
[asp1.sbs.ohio-state.edu/text/wxascii/sels/WWUS60.KMKC](http://asp1.sbs.ohio-state.edu/text/wxascii/sels/WWUS60.KMKC)  
[www.orst.edu:80/mc/coldep/oceatm/atmsci.htm](http://www.orst.edu:80/mc/coldep/oceatm/atmsci.htm)  
[www.met.psu.edu](http://www.met.psu.edu)  
[wxp.eas.purdue.edu](http://wxp.eas.purdue.edu)  
[www.eas.slu.edu/index.html](http://www.eas.slu.edu/index.html)  
[www.atmos.albany.edu](http://www.atmos.albany.edu)  
[www.met.tamu.edu](http://www.met.tamu.edu)  
[www.gi.alaska.edu](http://www.gi.alaska.edu)  
[www.atmo.arizona.edu](http://www.atmo.arizona.edu)  
[www.atmos.ucla.edu](http://www.atmos.ucla.edu)  
[geosci.uchicago.edu](http://geosci.uchicago.edu)  
[cacimbo.ggy.uga.edu](http://cacimbo.ggy.uga.edu)  
[lumahai.soest.hawaii.edu](http://lumahai.soest.hawaii.edu)  
[atmos.uiuc.edu](http://atmos.uiuc.edu)  
[www.metolab3.umd.edu/meteorology.html](http://www.metolab3.umd.edu/meteorology.html)  
[www.rsmas.miami.edu/msc/index.html](http://www.rsmas.miami.edu/msc/index.html)  
[aoss.engin.umich.edu](http://aoss.engin.umich.edu)  
[rossby.metr.ou.edu/~som](http://rossby.metr.ou.edu/~som)  
[www.met.utah.edu](http://www.met.utah.edu)  
[www.atmos.washington.edu](http://www.atmos.washington.edu)  
[www.meteor.wisc.edu](http://www.meteor.wisc.edu)  
[www-das.uwyo.edu](http://www-das.uwyo.edu)

### **Natural Hazards**

Children's Disaster Safety  
Community Hurricane Preparedness  
Coping With Floods  
Disaster Recovery  
FEMA (see also subjects under Federal)

[www.redcross.org/disaster/masters](http://www.redcross.org/disaster/masters)  
[meted.ucar.edu/hurricane/chp/index.htm](http://meted.ucar.edu/hurricane/chp/index.htm)  
[www.ag.ndsu.nodak.edu/flood/home.htm](http://www.ag.ndsu.nodak.edu/flood/home.htm)  
[www.binomial.com](http://www.binomial.com)  
[www.fema.gov/mit/](http://www.fema.gov/mit/)

Natural Hazards Center - Univ. of Colorado	<a href="http://www.colorado.edu/hazards">www.colorado.edu/hazards</a>
Natural Hazards Centre - Australia	<a href="http://www.es.mq.edu.au/NHRC/">www.es.mq.edu.au/NHRC/</a>
Project Safeside	<a href="http://www.weather.com/safeside">www.weather.com/safeside</a>

### **NOAA-By Organization**

NOAA Research Labs	
Atlantic Oceanographic and Meteorological Lab.	<a href="http://www.aoml.noaa.gov">www.aoml.noaa.gov</a>
Environmental Technology Laboratory	<a href="http://www.etl.noaa.gov">www.etl.noaa.gov</a>
Forecast Systems Laboratory	<a href="http://www.fsl.noaa.gov">www.fsl.noaa.gov</a>
Great Lakes Environmental Research Lab.	<a href="http://www.glerl.noaa.gov">www.glerl.noaa.gov</a>
National Severe Storms Laboratory	<a href="http://www.nssl.noaa.gov">www.nssl.noaa.gov</a>
Pacific Marine Environmental Laboratory	<a href="http://www.pmel.noaa.gov">www.pmel.noaa.gov</a>
Space Environment Laboratory	<a href="http://www.sel.noaa.gov/today.html">www.sel.noaa.gov/today.html</a>
National Environmental Satellite, Data, and Information Service	
National Climatic Data Center	<a href="http://www.ncdc.noaa.gov">www.ncdc.noaa.gov</a>
National Weather Service	<a href="http://www.nws.noaa.gov">www.nws.noaa.gov</a>
Alaska Region	<a href="http://www.alaska.net/~nwsar">www.alaska.net/~nwsar</a>
Central Region	<a href="http://www.crh.noaa.gov">www.crh.noaa.gov</a>
Climate Prediction Center	<a href="http://nic.fb4.noaa.gov">nic.fb4.noaa.gov</a>
Eastern Region	<a href="http://www.rdc.noaa.gov/~ohb/W/WN0000.html">www.rdc.noaa.gov/~ohb/W/WN0000.html</a>
Forecast Offices' Internet Addresses	<a href="http://www.wrh.noaa.gov/wrhq/nwspage.html">www.wrh.noaa.gov/wrhq/nwspage.html</a>
National Operational Hydrologic Research Ctr.	<a href="http://www.nohrsc.nws.gov">www.nohrsc.nws.gov</a>
Southern Region	<a href="http://www.srh.noaa.gov/wfo/html/srwo.html">www.srh.noaa.gov/wfo/html/srwo.html</a>
Storm Prediction Center	<a href="http://www.spc.noaa.gov">www.spc.noaa.gov</a>
Tropical Prediction Center	<a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>
Western Region	<a href="http://www.wrh.noaa.gov">www.wrh.noaa.gov</a>
NOAA	<a href="http://www.noaa.gov">www.noaa.gov</a>
Publications of the National Weather Service	<a href="http://www.nws.noaa.gov/om/nwspub.htm">www.nws.noaa.gov/om/nwspub.htm</a>

### **NOAA-By Subject**

Current Weather	<a href="http://weather.gov">weather.gov</a>
Data – Official Archive	<a href="http://www.ncdc.noaa.gov">www.ncdc.noaa.gov</a>
Fire Weather	<a href="http://www.spc.noaa.gov/fire/">www.spc.noaa.gov/fire/</a>
Jobs – NOAA (incl. student)	<a href="http://www.rdc.noaa.gov/~hrmo/jobs.htm">www.rdc.noaa.gov/~hrmo/jobs.htm</a>
Jobs – Student	<a href="http://ohrm.doc.gov/jobs/">ohrm.doc.gov/jobs/</a>
	<a href="http://www.rdc.noaa.gov/~hrmo/jobs.htm">www.rdc.noaa.gov/~hrmo/jobs.htm</a>
	<a href="http://www.usajobs.opm.gov/b4.htm">www.usajobs.opm.gov/b4.htm</a>
History of the NWS	<a href="http://www.nws.noaa.gov/pa/special/history/">www.nws.noaa.gov/pa/special/history/</a>
	<a href="http://www.nws.noaa.gov/er/mhx/historyg.htm">www.nws.noaa.gov/er/mhx/historyg.htm</a>
	<a href="http://yoopr.wrlx.noaa.gov/er/rlx/museum/museum.html">yoopr.wrlx.noaa.gov/er/rlx/museum/museum.html</a>
	<a href="http://205.156.54.206/er/gyx/timeline.html">205.156.54.206/er/gyx/timeline.html</a>
Hurricane – Frequently Asked Questions	<a href="http://www.aoml.noaa.gov/hrd/tcfaq/tcfaqHED.html">www.aoml.noaa.gov/hrd/tcfaq/tcfaqHED.html</a>
Hurricane Information	<a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>
Lightning, Severe Weather (and Wildfire)	<a href="http://www.nwstc.noaa.gov/d.HMD/Lightning/Ltng_home.htm">www.nwstc.noaa.gov/d.HMD/Lightning/Ltng_home.htm</a>
Modernization	<a href="http://www.nws.noaa.gov/modernize">www.nws.noaa.gov/modernize</a>
Natural Hazard Statistics - Summary	<a href="http://www.nws.noaa.gov/om/hazstat.htm">www.nws.noaa.gov/om/hazstat.htm</a>
NOAA Weather Radio	<a href="http://www.nws.noaa.gov/nwr/index.html">www.nws.noaa.gov/nwr/index.html</a>
NWS Publications - Listing	<a href="http://www.nws.noaa.gov/nwspub.html">www.nws.noaa.gov/nwspub.html</a>
Outreach – NWS	<a href="http://www.nws.noaa.gov/om/reachout/">www.nws.noaa.gov/om/reachout/</a>
Owlie Skywarn Weather Book for Kids	<a href="http://www.crh.noaa.gov/mkx/owlie/owlie.htm">www.crh.noaa.gov/mkx/owlie/owlie.htm</a>
Overpasses Are Not Tornado Shelters	<a href="http://www.srh.noaa.gov/oun/papers/overpass.html">www.srh.noaa.gov/oun/papers/overpass.html</a>
Publications of NWS - Listing	<a href="http://www.nws.noaa.gov/nwspub.html">www.nws.noaa.gov/nwspub.html</a>
Radar Sites - University of Oklahoma	<a href="http://wwwcaps.ou.edu/~kbrews/88D.html">wwwcaps.ou.edu/~kbrews/88D.html</a>
Satellites – Weather	<a href="http://140.90.207.25:8080/EBB/ml/education.html">140.90.207.25:8080/EBB/ml/education.html</a>
Severe Weather Sites	<a href="http://www.spc.noaa.gov">www.spc.noaa.gov</a>
	<a href="http://www.nws.noaa.gov/om/svrawar/svrwx.htm">www.nws.noaa.gov/om/svrawar/svrwx.htm</a>
	<a href="http://www.nssl.noaa.gov">www.nssl.noaa.gov</a>
	<a href="http://www.nssl.noaa.gov/hazard/">www.nssl.noaa.gov/hazard/</a>
StormReady	<a href="http://www.nws.noaa.gov/stormready/">www.nws.noaa.gov/stormready/</a>
Thunderstorm Awareness	<a href="http://www.nws.noaa.gov/om/svrawar.htm">www.nws.noaa.gov/om/svrawar.htm</a>

Weather Radio-NOAA  
Winter Weather Awareness

[www.nws.noaa.gov/nwr/index.html](http://www.nws.noaa.gov/nwr/index.html)  
[www.nws.noaa.gov/om/winter/](http://www.nws.noaa.gov/om/winter/)

Auroras  
Bermuda Biological Station for Research  
Downbursts and Microbursts  
    Downbursts  
    Microburst Handbook  
Great Lakes Temperatures  
Jarrel, Texas Tornado Photos  
Satellite Data  
    Colorado State University  
    Naval Meteorology & Oceanography Command  
Sea Surface Temperatures  
Snow and Avalanches  
Today's Space Weather  
Tommy's Weathercam List  
Topographic Maps  
    Fermi Laboratories  
The Tornado Project  
Weatherwise Magazine

### **Others**

[www.geo.mtu.edu/weather/aurora/](http://www.geo.mtu.edu/weather/aurora/)  
[www.bbsr.edu/~norm/whatsup.gif](http://www.bbsr.edu/~norm/whatsup.gif)  
[www-frd.fsl.noaa.gov/mab/microburst/](http://www-frd.fsl.noaa.gov/mab/microburst/)  
[www.nssl.noaa.gov/~doswell/microbursts/Handbook.html](http://www.nssl.noaa.gov/~doswell/microbursts/Handbook.html)  
[www.glerl.noaa.gov/cw/cwdata/lct/glsea.gif](http://www.glerl.noaa.gov/cw/cwdata/lct/glsea.gif)  
[www.pulse.net/storm/Jarrell.htm](http://www.pulse.net/storm/Jarrell.htm)  
[www.cira.colostate.edu/ramm/rmsdsol/main.html](http://www.cira.colostate.edu/ramm/rmsdsol/main.html)  
[www.fnoc.navy.mil](http://www.fnoc.navy.mil)  
[www.rsmas.miami.edu/images.html](http://www.rsmas.miami.edu/images.html)  
[www.csac.org](http://www.csac.org)  
[www.sel.noaa.gov/today.html](http://www.sel.noaa.gov/today.html)  
[www.rt66.com/~ozone/cam.htm](http://www.rt66.com/~ozone/cam.htm)  
[fermi.jhuapl.edu/states/states.html](http://fermi.jhuapl.edu/states/states.html)  
[www.tornadoproject.com](http://www.tornadoproject.com)  
[www.weatherwise.org](http://www.weatherwise.org)

## **7.2. DATA SETS ON ELECTRONIC MEDIA**

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Large amounts of weather and climate data can be stored on DC-ROM disks. For example, one CD-ROM produced by the National Climatic Data Center (NCDC) holds climate data for over 6000 stations, which is equivalent to 250,000 pages of printed text. Graphics packages and the driving software are included with some disks. Data exports are available so that the user can export the data from the disk to produce individual usable files on diskettes. Articles describing meteorological data storage are the following:

Mass, C.F., H.J. Edmon, H.J. Friedman, N.R. Cheney, and E.E. Recker, 1987: The use of compact discs for the storage of large meteorological and oceanographic datasets. *Bulletin of the American Meteorological Society*, **68**, 1556-1558.

Mass, C.F., 1993: The application of compact discs (CD-ROM) to the atmospheric sciences and related fields: An update. *Bulletin of the American Meteorological Society*, **68**, 1556-1558.

Ross, T.F., 1994: NCDC's CD-ROM products and on-line services. *Preprints of the Third Symposium on Education, Nashville, TN, American Meteorological Society, Boston, J1-J4*.

Towheed, S.S., 1993: NASA space and earth science data on CD-ROM. NSSDC WDC-A-R&S 93-01, National Space Science Data Center, Greenbelt, MD, 29 pp.

### **Government CD-ROMs**

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•*Climate Data from National Climatic Data Center (NCDC)*  
NCDC Climate Services Branch, Federal Building, 151 Patton Avenue, Asheville NC 28801-5001.  
Phone: (704) 271-4800  
Email: [orders@ncdc.noaa.gov](mailto:orders@ncdc.noaa.gov)  
Web: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

•*International Station Meteorological Climate Summary*  
Contains climatic data for 640 and 5800 secondary stations worldwide. Version 2.0 issued in June 1992.

•*Marine Climatic Atlas of the World*  
Contains global historical marine data. Included are air and sea temperature, wind speed, sea-level pressure, wave height, gale winds, superstructure icing, and wind/current roses.

•*National Climate Information Disk*  
Version 1.0 contains monthly temperature, precipitation, and Palmer drought index data for the 344 climatological divisions of the U.S. covering 1895-1989.

•*Geophysical Data*  
Data base containing worldwide marine geophysical data are available from:  
National Geophysical Data Center, 3253 Broadway, Boulder, CO 80303.  
Phone: (303) 497-6338

•*Joint Education Initiative*  
A set of three CD-ROMs for DOS or Macintosh for \$35 contains lessons, developed by teachers on a range of subjects, including the "Geophysics of North America."  
Bill Johnson, 3433 A.V. Williams Building, University of Maryland, College Park, MD 20742.  
Phone: (301) 405-2324

•*Snowcover Data*  
CD-ROMs containing airborne and satellite snow data for portions of the U.S. and southern Canada for 1990 and 1991 are at:

National Operational Hydrologic Remote Sensing Center,  
Office of Hydrology, National Weather Service, 6301 34th  
Avenue South, Room 112, Minneapolis, MN 55450-2985.  
Phone: (612) 725-3258

68 North Shore Drive  
Seaford, DE 19973

## Commercial CD-ROMs

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### •CLEARVUE/eav

- The El Niño*, \$35.00
- Everything Weather*, \$70.00
- Learning About Weather & Climate*, \$75.00
- Sky Works*, \$40.00.
- Team Xtreme: Operation Weather Disasters*, \$55.00
- Understanding Weather & Climate*, \$60.00
- Weather: Air In Action*, \$50.00.
- Weather Science Explorer*, \$60.00.
- The World's Weather*, \$90.00.

### •Everything Weather

1997. Climate maps, tracking tools, dramatic videos.  
ISBN 6-30442210-5. \$39.99.  
The Weather Channel, 300 Interstate North Parkway,  
Atlanta, GA 30339.  
Web: [www.weather.com](http://www.weather.com)

### •Water Vapor Weather Satellite Imagery

Three volume VHS or CD-ROM of: I – El Nino 1997, II –  
Nor'Easters 1998, III – Hurricanes 1998. \$19.95 each or  
Space/Earth Science Technologies

### •Weather and Climate

Interactive CD-ROM for grades 5-9. Includes teacher's  
guide. Mac and Windows compatible. \$49.95 (or 5 for  
\$199.95)

Discovery Channel School.

Phone: 1-888-892-3484

Web: Click on "school" at [discovery.com](http://discovery.com)

### •World climate

Global climatic change data.

Chadwyck-Healey, Inc., 1101 King Street, Alexandria, VA  
22314.

Phone: (800) 752-0515

(703) 683-4890

### •World climate

Climatic data for 2000 stations worldwide for \$295.

WeatherDisc Associates, Inc., 4584 N.E. 89th, Seattle,  
WA 98115.

Phone: (206) 524-4314

or

Dr. Cliff Mass, Dept. of Atmospheric Science (AK40),  
University of Washington, Seattle, WA 98195.

Phone: (206) 685-0910

## 7.3. INSTRUCTIONAL SOFTWARE

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Selected updated address lists of software suppliers is in  
the annual *Science Education Suppliers Supplement* to *The  
Science Teacher* and other publications of the NSTA.

National Science Teachers Association, 1742 Connecticut  
Ave., N.W., Washington, DC 20209-1171.

### •Any Weather

1998. RCA Records, ISBN 6-305172331. \$16.98.

### •Climate and Weather/Our Town Data Base

Grades 4-12.

Sunburst Communications, 101 Castleton Street,  
Pleasantville, NY 10570.

### •Discovery Works Weather and Climate

1997. SIM Publishing, ISBN 6-30429502-2. \$24.99.

### •Earth Science

Videodisk, \$395.00, Grades 4 to 12.

Optical Data, 30 Technology Drive, Warren, NJ 07060.

### •Everything Weather

1997. Climate maps, tracking tools, dramatic videos.  
ISBN 6-30442210-5. \$39.99.

The Weather Channel, 300 Interstate North Parkway,  
Atlanta, GA 30339.

Web: [www.weather.com](http://www.weather.com)

### •Five Star Forecast

Disk, manual, and workbook, \$59. Part of MECC's  
Science Inquiry Collection including 'Weather maker' and  
'Forecaster.'

MECC-Minnesota Education Computing Corporation, 3490  
Lexington, Avenue North, St. Paul, MN 55126.

### •Forecasting the Weather

Double-sided disk, backup, worksheets, and manual,  
\$59.95, Grades 6 to 9.

MCE Division of Lawrence Productions, MCE, Inc., P.O.  
Box 458, Galesburg, MI 49053.

### •Inclement Weather

1998. World Domination Records, ISBN 6-305044708.  
\$15.98.

### •More Weather

1998, ISBN 6-304794851. \$17.98.

### •Weather

1997. Two disks, backup, manual, \$49.95, Grades 3 - 8.

-Forecasting the weather.

-Temperature, humidity, air pressure, and wind.

-The weather station.

Orange Cherry, Box 390, Pound Ridge, NJ 10576-0390.

### •The Weather

1997. Book and CD-ROM. Smithmark Publishing, ISBN  
0-76519109-1. \$14.98.

### •Weather

1998. World Book Multimedia, ISBN 0-716672367.  
\$14.95.



- Weather: A View From Space, Vol. 1: El Nino 1997*  
1999. Space/Earth Science Technologies, www.sest.com, \$19.95
- Weather Academy*  
Two disks, backup, student workbook and manual, and additional materials, \$99, Grades 5 to 8.  
Focus Media, 839 Stewart Ave., Garden City, NY 11530.
- Weather In Action*  
Two disks, backup, and manual, \$395.00, Grades 4 to 9.  
National Geographic Society, Educational Services, 17th and M Streets, N.W., Washington, DC 20036.  
Phone: (800) 368-2728
- The Weather Tracker's Kit: Explore the Changing Forces of Nature*  
1995. Book and CD-ROM. Running Press, ISBN 1-56138641-3. \$29.95.

## 8. DATA SOURCES

Weather observations at numerous stations can be accessed nearly realtime with a computer and modem. Other weather data sources include radio and television broadcasts. Some climatological data can be obtained in electronic format, such as computer files or databases on diskette, tape, or CD-ROM; much of this is not free.

Essentially all meteorological data collected in the United States are archived by the National Climatic Data Center (NCDC), an agency of NOAA in Asheville, NC. Climatic data can be obtained from governmental sources, either through publications in libraries or certain government offices.

### 8.1. CURRENT WEATHER INFORMATION

Current weather observations from weather observation stations operated by the National Weather Service can be obtained from several sources that do not require computers. The following list includes media involved with dissemination of current weather information, forecasts, and special weather advisories, watches, and warnings.

#### •Hurricane Hotline

Recorded telephone messages are activated when a tropical storm or hurricane threatens. These messages identify areas affected by the watch or warning, location of the storm, forecasted movement, wind speeds, and tidal effects. There is a cost of 50 cents for the first minute, and 45 cents for each additional minute. The average call costs 85 cents.

Atlantic: (900) 410-NOAA or (900) 410-6622.

Pacific: (900) 410-CANE or (900) 410-2263.

#### •Marine Weather Radio

Weather observations, charts, warnings, advisories, and other information are broadcast on various marine weather radio frequencies for shipping interests. Stations operated by NOAA are part of an international network of marine weather radio stations. For marine interests, phone service is operated by BOAT/U.S. Weather Watch at (900) 933-BOAT--this is a toll call. A list of stations and frequencies operated on the Atlantic, Pacific, Gulf of Mexico, and Great Lakes is provided in a publication available from the Superintendent of Documents, Washington, DC 20418.

#### •NOAA Weather Radio

The expanded NOAA Weather Radio network of over 425 FM stations is operated by the National Weather Service (NWS) and provides continuous weather information. Stations operate at seven high FM-band frequencies:

162.400 Mhz	162.425 Mhz
162.450 Mhz	162.475 Mhz
162.500 Mhz	162.525 Mhz
162.550 Mhz	161.650 Mhz
161.775 Mhz	163.275 Mhz

NOAA Weather Radio broadcasts are also available from touch-tone telephones; select a local broadcast at:

(900) 884-NOAA

(900) 884-6622

A listing of NOAA Weather Radio stations in the U.S. can be obtained from:

-Local National Weather Service offices.

-Customer Service, National Weather Service, NOAA, 1325 East-West Highway, Room 14360, Silver Spring, MD 20910. Phone (301) 713-0090.

-Web: [www.nws.noaa.gov/nwr/nwr.htm](http://www.nws.noaa.gov/nwr/nwr.htm)

#### •The Weather Channel

This cable television channel continuously broadcasts weather programming from Atlanta, Ga. An educational segment entitled 'The Weather Classroom' is broadcast daily, and covers a wide variety of topics. Teachers may videotape this segment at no charge for use in their classrooms.

### 8.2. CLIMATOLOGICAL INFORMATION

#### •Canada

Canadian climate data can be obtained from two sources:

Canadian Government Publishing Center  
Ottawa, Ontario  
Canada K1A 0S9

Phillips, D.W., D.W. Gullett, and M.S. Webb, 1988:  
*Handbook on climate data sources of the Atmospheric Environment Service, 3rd edition.* Canadian Climate Center, Downsview, Ontario, Environment Canada, 326 pp.

#### •Federal Sources of Climate Data

Publications related to weather and climate, including publications in this section, can be found at many of the 1370 sites across the country. For more information about this program and the location of the nearest Depository, contact your local library or:

Federal Depository Library Program  
U.S. Government Printing Office  
Superintendent of Documents, Stop SM  
Washington, DC 20402

•*National Climatic Data Center (NCDC)*

The following publications are available:

- Daily Weather Maps* (weekly)
- Storm Data* (monthly)
- Mariners Weather Log* (quarterly)
- Weekly Weather and Crop Bulletin*
- Weekly Climate Bulletin*
- Local Climatic Data* for individual stations (monthly and annual)
- Climatological Data* for individual states (monthly and annual)
- Hourly Precipitation Data* for individual states (monthly)
- Climates of the United States*
- Monthly Climatological Data for the World* (monthly)
- Monthly and Seasonal Weather Outlook* (semimonthly)

Federal Building  
151 Patton Avenue  
Asheville NC 28801-5001  
Phone: (704) 271-4800  
Fax: (704) 271-4876  
Web: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

•*NOAA Library and Information Services Division*

Central Library  
Washington Science Center-4  
6009 Executive Blvd.  
Rockville, MD 20852  
Circulation: (301) 443-8330  
Reference: (301) 443-8332  
Interlibrary loan: (301) 443-8333

•*Regional Climate Centers*

Six centers have climatic databases for the states in their region. These centers will respond to requests for regional climate information.

**High Plains Climate Center**

*Colorado, Kansas, Nebraska, North Dakota, South Dakota, Wyoming.*  
Lincoln, NE 68583-0728  
Web: [hpccsun.unl.edu](http://hpccsun.unl.edu)  
Phone: (402) 472-5206  
(402) 472-6706

**Midwest Climate Center**

*Indiana, Illinois, Iowa, Kentucky, Michigan, Minnesota, Missouri, Ohio, Wisconsin.*  
Champaign, IL  
Web: [mcc.sws.uiuc.edu](http://mcc.sws.uiuc.edu)  
Phone: (217) 244-1488  
(217) 344-8226

**Northeast Regional Climate Center**

*Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New Hampshire, New York, Pennsylvania, Rhode Island, Vermont, West Virginia.*  
Ithaca, NY 14853  
Web: [met-www.cit.cornell.edu](http://met-www.cit.cornell.edu)  
Phone: (607) 255-1749  
(607) 255-1751

**Southeast Regional Climate Center**

*Alabama, Florida, Georgia, North Carolina, South Carolina, Virginia.*  
Chapel Hill, NC 27599  
Web: <http://www.sercc.com/>  
Phone: (919) 843-9721

**Southern Regional Climate Center**

*Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, Texas.*  
Baton Rouge, LA 70803-4105  
Web: [maestro.srcc.lsu.edu/srcc.html](http://maestro.srcc.lsu.edu/srcc.html)  
Phone: (225) 388-5021

**Western Regional Climate Center**

*Arizona, California, Idaho, Montana, New Mexico, Nevada, Oregon, Utah, Washington.*  
Reno, NV 89506-0220  
Web: [wrcc.sage.dri.edu/](http://wrcc.sage.dri.edu/)  
Phone: (702) 677-3139  
(702) 677-3106

## 9. PROFESSIONAL ORGANIZATIONS

### Weather

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American Meteorological Society (AMS)  
45 Beacon Street  
Boston, MA 02108-3693  
Phone: (617) 227-2425  
Web: [www.ametsoc.org/AMS](http://www.ametsoc.org/AMS)

Canadian Meteorological and Oceanographic Society (CMOS)  
151 Slate Street  
Ottawa, Ontario, Canada

National Weather Association (NWA)  
6704 Wolke Court  
Montgomery, AL 36116-2134  
Phone: (334) 213-0388  
Web: [www.nwas.org](http://www.nwas.org)

World Meteorological Organization (WMO)  
41, Avenue Giuseppe-Motta  
Case postale no. 2300  
CH-1211 Geneva 2  
Switzerland  
Web: [www.wmo.ch](http://www.wmo.ch)

### General Science

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American Association for the Advancement of Science (AAAS)  
1333 H Street, N.W.  
Washington, DC 20005-4792  
Phone: (202) 326-6670  
Web: [www.aaas.org](http://www.aaas.org)

American Geophysical Union (AGU)  
2000 Florida Avenue, N.W.  
Washington, DC 20009

Phone: (202) 939-3223  
Web: [www.agu.org](http://www.agu.org)

American Water Resources Association (AWRA)  
5410 Grosvenor Lane, Suite 220  
Bethesda, MD 20814-2192  
(301) 493-8600

### Education

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American Association of Physics Teachers (AAPT)  
5112 Berwyn Road  
College Park, MD 20740-4100

National Association of Geology Teachers (NAGT)  
Geology Department  
Western Washington University  
576 High Street  
Bellingham, WA 98225-9080

National Earth Science Teachers Association (NESTA)  
Science Department #14  
Lansing Community College  
430 Capitol Avenue  
Lansing, MI 48901

National Science Teachers Association (NSTA)  
1742 Connecticut Avenue, N.W.  
Washington, DC 20009-1171  
Phone: (202) 328-5800

Many states have their own science teacher organizations that hold conventions and publish periodicals. Contact the state education department for further information.

## 10. ADDITIONAL RESOURCE CONTACTS

### American Meteorological Society AERAs

The American Meteorological Society (AMS) established a national network of teachers identified as Atmospheric Education Resource Agents (AERA). A partnership of scientists, educators, government, and industry focuses on attracting young students into continued study of science, mathematics, and technology. At least one master teacher in each state has been selected to act as a resource agent. A current listing can be obtained from:

Ira Geer  
American Meteorological Society  
Project Atmosphere  
1200 New York Avenue, Suite 410  
Washington, DC 20005  
Phone: (202) 466-6070

### National Weather Service WCMs

The National Weather Service (NWS) has established a national network of Warning and Coordination Meteorologists (WCM) at each forecast office. A current listing that identifies the WCM for your city can be obtained from:

Customer Service  
National Weather Service, NOAA  
1325 East-West Highway, Room 14360  
Silver Spring, MD 20910  
Phone: (301) 713-0090  
Fax: (301) 713-1598  
Email: Linda.Kremkau@noaa.gov  
Web: www.nws.noaa.gov/om/

NWS Stations: www.wrh.noaa.gov/wrhq/nwspage.html.

#### Alabama

##### Birmingham

Web: www.srh.noaa.gov/bmx/  
WCM: Brian Peters  
Phone: 205-664-3010

##### Mobile

Web: www.srh.noaa.gov/mob/  
WCM: Gary Beeler  
Phone: 334-633-6443

#### Alaska

##### Anchorage

Web: www.alaska.net/~nwsfoanc/  
WCM: David Goldstein  
Phone: 907-266-5117

##### Fairbanks

Web: www.faiwsfo.org/  
WCM: John Lingaas  
Phone: 907-458-3712

##### Juneau

Web: www.alaska.net/~jnufo/  
WCM: Aimee Devaris  
Phone: 907-790-6803

##### Kodiak

Web: www.ptialaska.net/~wsoadq

##### Palmer

WCM: Bruce Turner  
Web: wcatwc.gov  
Phone: 907-745-4212

#### Arizona

##### Flagstaff

Web: nimbo.wrh.noaa.gov/Flagstaff/  
WCM: Tyree Wilde  
Phone: 520-556-9161

##### Phoenix

Web: www.phx.noaa.gov  
WCM: David Runyun  
Phone: 602-379-4611

##### Tucson

Web: nimbo.wrh.noaa.gov/Tucson/twc.html  
WCM: Paul Flatt  
Phone: 520-670-5156

#### Arkansas

##### Little Rock

Web: www.srh.noaa.gov/lzk/  
WCM: John Robinson  
Phone: 501-834-9102

#### California

##### Eureka

Web: www.wrh.noaa.gov/Eureka/  
WCM: John Lovegrove  
Phone: 707-443-6484

##### Los Angeles

Web: www.nwsla.noaa.gov  
WCM: Tim McClung  
Phone: 805-988-6610

##### Sacramento

Web: www.wrh.noaa.gov/Sacramento/  
WCM: Kathy Hoxsie  
Phone: 916-979-3041

##### San Diego

Web: www.wrh.noaa.gov/Sandiego/nws.html  
WCM: Ed Clark  
Phone: 858-297-2107

##### San Francisco

Web: www.nws.mbay.net/home.html  
WCM: Charles Morrill  
Phone: 831-656-1725

##### San Joaquin Valley

Web: www.wrh.noaa.gov/Hanford/main.htm  
WCM: Dan Gudgel  
Phone: 559-584-0583

#### Colorado

##### Denver/Boulder

Web: www.crh.noaa.gov/den/  
WCM: Robert Glancy  
Phone: 303-494-3210

##### Grand Junction

Web: www.crh.noaa.gov/gjt/  
WCM: James Pringle  
Phone: 970-243-7007

Pueblo  
Web: www.crh.noaa.gov/pub/  
WCM: Tom Magnuson  
Phone: 719-948-9429

#### **District of Columbia (see Virginia)**

#### **Florida**

Jacksonville  
Web: www.nwsjax.noaa.gov/  
WCM: Fred Johnson  
Phone: 904-741-4370

Key West  
Web: www.srh.noaa.gov/eyw/  
WCM: Wayne Presnell  
Phone: 305-295-1316

Melbourne  
Web: www.srh.noaa.gov/mlb  
WCM: Dennis Decker  
Phone: 407-255-0212

Miami  
Web: www.srh.noaa.gov/mia/  
WCM: Jim Lushine  
Phone: 305-229-4522

Tallahassee  
Web: www.srh.noaa.gov/tlh/  
WCM: Bob Goree  
Phone: 904-942-8999

Tampa Bay Area  
Web: www.srh.noaa.gov/tbw/  
WCM: Walt Zaleski  
Phone: 813-645-2323

#### **Georgia**

Atlanta  
Web: www.srh.noaa.gov/ffc/  
WCM: Barry Gooden  
Phone: 770-486-1333

#### **Guam**

Web: tgs5.nws.noaa.gov/pr/guam/  
WCM: Tom Tarlton  
Phone: 671-472-7423

#### **Hawaii**

Honolulu  
Web: tgs5.nws.noaa.gov/pr/hnl/  
WCM: Thomas Heffner  
Phone: 808-973-5275

#### **Idaho**

Boise  
Web: www.wrh.noaa.gov/boise/  
WCM: Carl Weinbrecht  
Phone: 208-334-9860

Pocatello  
Web: www.wrh.noaa.gov/Pocatello/  
WCM: Vern Preston  
Phone: 208-233-0834

#### **Illinois**

Chicago  
Web: www.crh.noaa.gov/lot/  
WCM: Jim Allsopp  
Phone: 815-834-0600

Lincoln  
Web: www.crh.noaa.gov/ilx/  
WCM: Rod Palmer  
Phone: 217-732-4029

#### **Indiana**

Indianapolis  
Web: www.crh.noaa.gov/ind/  
WCM: David Tucek  
Phone: 317-856-0361

Northern Indiana  
Web: www.crh.noaa.gov/iwx/  
WCM: Jane Hollingsworth  
Phone: 219-834-5178

#### **Iowa**

Davenport  
Web: www.crh.noaa.gov/dvn/  
WCM: James Meyer  
Phone: 319-391-6729

Des Moines  
Web: www.crh.noaa.gov/dmx/  
WCM: Jeffrey Johnson  
Phone: 515-270-4501

#### **Kansas**

Dodge City  
Web: www.crh.noaa.gov/ddc/  
WCM: Jeff Hutton  
Phone: 316-227-7140

Goodland  
Web: www.crh.noaa.gov/gld/  
WCM: Kevin Lynott  
Phone: 785-899-7119

Topeka  
Web: www.crh.noaa.gov/top/  
WCM: Mike Akulow  
Phone: 785-232-1493

Wichita  
Web: www.crh.noaa.gov/ict/  
WCM: Chance Hayes  
Phone: 316-942-8483

#### **Kentucky**

Jackson  
Web: www.crh.noaa.gov/jkl/  
WCM: Jim Keeney  
Phone: 606-666-4856

Louisville  
Web: www.crh.noaa.gov/lmk/  
WCM: Norman Reitmeyer  
Phone: 502-969-8842

Paducah  
Web: www.crh.noaa.gov/pah/  
WCM: Ricky Shanklin  
Phone: 502-744-6440

#### **Louisiana**

Lake Charles  
Web: www.srh.noaa.gov/lch/  
WCM: Roger Erickson  
Phone: 337-477-5285

New Orleans/Baton Rouge

Web: www.srh.noaa.gov/lix/  
WCM: Frank Revitte  
Phone: 504-522-7330

Shreveport

Web: www.srh.noaa.gov/shv/  
WCM: Bruce Burkman  
Phone: 318-631-3669

**Maine**

Caribou

Web: www.nws.noaa.gov/er/car/  
WCM: Hendricus Lulofs  
Phone: 207-496-8931

Portland

Web: www.nws.noaa.gov/er/gyx/  
WCM: John Jensenius  
Phone: 207-688-3216

**Massachusetts**

Boston

Web: www.nws.noaa.gov/er/box/  
WCM: Glenn Field  
Phone: 508-823-1900

**Michigan**

Detroit

Web: www.crh.noaa.gov/dtx/  
WCM: Darin Figurskey  
Phone: 248-625-3309

Grand Rapids

Web: www.crh.noaa.gov/grr/  
WCM: Mike Heathfield  
Phone: 616-956-5922

Marquette

Web: www.crh.noaa.gov/mqt/  
WCM: Jack Pellett  
Phone: 906-475-5782

North Central Lower Michigan

Web: www.crh.noaa.gov/apx/  
WCM: Brian Hirsch  
Phone: 517-731-3384

**Minnesota**

Duluth

Web: www.crh.noaa.gov/dlh/  
WCM: Carol Christenson  
Phone: 218-729-0651

Minneapolis

Web: www.crh.noaa.gov/mpx/  
WCM: Todd Krause  
Phone: 612-361-6670

**Mississippi**

Jackson

Web: www.srh.noaa.gov/jan/  
WCM: James Butch  
Phone: 601-936-2189

**Missouri**

Kansas City

Web: www.crh.noaa.gov/eax/  
WCM: Bill Bunting  
Phone: 816-540-5147

Saint Louis

Web: www.crh.noaa.gov/lx/  
WCM: Jim Kramper  
Phone: 636-447-1876

Springfield

Web: www.crh.noaa.gov/sgf/  
WCM: Steve Runnels  
Phone: 417-863-1456

**Montana**

Billings

Web: www.wrh.noaa.gov/Billings/  
WCM: Stephen Kuhl  
Phone: 406-652-0851

Glasgow

Web: www.wrh.noaa.gov/Glasgow/  
WCM: Kimberley Bailey  
Phone: 406-228-2850

Great Falls

Web: www.wrh.noaa.gov/Greatfalls/  
WCM: Rick Dittman  
Phone: 406-453-2081

Missoula

Web: www.wrh.noaa.gov/Missoula/  
WCM: Peter Felsch  
Phone: 406-329-4841

**Nebraska**

Hastings

Web: www.crh.noaa.gov/gid/home.htm  
WCM: Steve Kisner  
Phone: 402-462-2127

North Platte

Web: www.crh.noaa.gov/lbf/  
WCM:  
Phone: 308-532-4936

Omaha

Web: www.crh.noaa.gov/oax/  
WCM: Brian Smith  
Phone: 402-359-2394

**Nevada**

Elko

Web: www.wrh.noaa.gov/Elko/  
WCM: Jim Dudley  
Phone: 775-738-3018

Las Vegas

Web: www.wrh.noaa.gov/Lasvegas/  
WCM: Ron McQueen  
Phone: 702-263-9744

Reno

Web: www.wrh.noaa.gov/Reno/  
WCM: Roger Lamoni  
Phone: 775-673-8107

**New Mexico**

Albuquerque

Web: www.srh.noaa.gov/abq/  
WCM: Keith Hayes  
Phone: 505-243-0702

## **New York**

### Albany

Web: [web.nws.cestm.albany.edu/](http://web.nws.cestm.albany.edu/)  
WCM: Dick Westergard  
Phone: 518-435-9568

### Binghamton

Web: [www.nws.noaa.gov/er/bgm/](http://www.nws.noaa.gov/er/bgm/)  
WCM: Dave Nicosia  
Phone: 607-770-9531

### Buffalo

Web: [www.wbuf.noaa.gov/](http://www.wbuf.noaa.gov/)  
WCM: Stan Levine  
Phone: 716-565-0204

### New York City

Web: [www.nws.noaa.gov/er/okx/](http://www.nws.noaa.gov/er/okx/)  
WCM: Gary Conte  
Phone: 631-924-0037

## **North Carolina**

### Newport

Web: [www.nws.noaa.gov/er/mhx/](http://www.nws.noaa.gov/er/mhx/)  
WCM: Jeff Orrock  
Phone: 919-223-5122

### Raleigh/Durham

Web: [www.nws.noaa.gov/er/rah/](http://www.nws.noaa.gov/er/rah/)  
WCM: George Lemons  
Phone: 919-515-8209

### Wilmington

Web: [nwsilm.wilmington.net](http://nwsilm.wilmington.net)  
WCM: Tom Matheson  
Phone: 910-762-4289

## **North Dakota**

### Bismarck

Web: [www.crh.noaa.gov/bis/](http://www.crh.noaa.gov/bis/)  
WCM: Daniel Noah  
Phone: 701-250-4224

### Grand Forks

Web: [www.crh.noaa.gov/fgf/](http://www.crh.noaa.gov/fgf/)  
WCM: Greg Gust  
Phone: 701-772-0720

## **Ohio**

### Cincinnati

Web: [www.nws.noaa.gov/er/iln/](http://www.nws.noaa.gov/er/iln/)  
WCM: Mary Jo Parker  
Phone: 937-383-0031

### Cleveland

Web: [www.csuohio.edu/nws/](http://www.csuohio.edu/nws/)  
WCM: Gary Garnet  
Phone: 216-265-2370

## **Oklahoma**

### Oklahoma City

Web: [www.srh.noaa.gov/oun/](http://www.srh.noaa.gov/oun/)  
WCM: Jim Purpura  
Phone: 405-366-6583

### Tulsa

Web: [www.srh.noaa.gov/tulsa/](http://www.srh.noaa.gov/tulsa/)  
WCM: George Matthews  
Phone: 918-832-4115

## **Oregon**

### Medford

Web: [www.wrh.noaa.gov/Medford/](http://www.wrh.noaa.gov/Medford/)  
WCM: Jim Reynolds  
Phone: 541-773-1067

### Pendleton

Web: [www.wrh.noaa.gov/Pendleton/](http://www.wrh.noaa.gov/Pendleton/)  
WCM: Dennis Hull  
Phone: 541-276-7832

### Portland

Web: [www.wrh.noaa.gov/Portland/](http://www.wrh.noaa.gov/Portland/)  
WCM: Dan Keeton  
Phone: 503-261-9247

## **Pago Pago**

WCM: Akapo Akapo  
Phone: 684-699-9130

## **Pennsylvania**

### Philadelphia

Web: [www.nws.noaa.gov/er/phi/](http://www.nws.noaa.gov/er/phi/)  
WCM: Joe Miketta  
Phone: 609-261-6600

### Pittsburgh

Web: [www.nws.noaa.gov/er/pit/](http://www.nws.noaa.gov/er/pit/)  
WCM: Rich Kane  
Phone: 412-262-1591

### State College

Web: [nws-sc.met.psu.edu/](http://nws-sc.met.psu.edu/)  
WCM: Tom Dunham  
Phone: 814-234-9412

## **Puerto Rico**

Web: [www.upr.clu.edu/nws/](http://www.upr.clu.edu/nws/)  
WCM: Rafael Mojica  
Phone: 787-253-4586

## **South Carolina**

### Charleston

Web: [wchs.csc.noaa.gov/](http://wchs.csc.noaa.gov/)  
WCM: Jerry Harrison  
Phone: 843-744-3207

### Columbia

Web: [www.nws.noaa.gov/er/cae/](http://www.nws.noaa.gov/er/cae/)  
WCM: Steve Naglic  
Phone: 803-765-5501

### Greenville-Spartanburg

Web: [www.nws.noaa.gov/er/gsp/](http://www.nws.noaa.gov/er/gsp/)  
WCM: Vince Di Carlo  
Phone: 864-848-1332

## **South Dakota**

### Aberdeen

Web: [www.crh.noaa.gov/abr/](http://www.crh.noaa.gov/abr/)  
WCM: George Marshall  
Phone: 605-225-5547

### Rapid City

Web: [www.crh.noaa.gov/fsd/](http://www.crh.noaa.gov/fsd/)  
WCM: Susan Sanders  
Phone: 605-341-9271

### Sioux Falls

Web: [www.crh.noaa.gov/unr/](http://www.crh.noaa.gov/unr/)  
WCM: Todd Heitkamp  
Phone: 605-330-4247



## Tennessee

### Knoxville/Tri-Cities

Web: [www.srh.noaa.gov/mrx/](http://www.srh.noaa.gov/mrx/)  
WCM: Howard Waldron  
Phone: 423-586-9040

### Memphis

Web: [www.srh.noaa.gov/meg/](http://www.srh.noaa.gov/meg/)  
WCM: Jim Belles  
Phone: 901-544-0399

### Nashville

Web: [www.srh.noaa.gov/bna/](http://www.srh.noaa.gov/bna/)  
WCM: Jerry Orchanian  
Phone: 615-754-8506

## Texas

### Amarillo

Web: [www.srh.noaa.gov/ama/](http://www.srh.noaa.gov/ama/)  
WCM: Steve Drillette  
Phone: 806-335-1121

### Austin/San Antonio

Web: [www.srh.noaa.gov/ewx/](http://www.srh.noaa.gov/ewx/)  
WCM: Larry Eblen  
Phone: 830-629-0130

### Brownsville

Web: [www.srh.noaa.gov/bro/](http://www.srh.noaa.gov/bro/)  
WCM: Hector Guerrero  
Phone: 956-504-1432

### Corpus Christi

Web: [www.srh.noaa.gov/crp/](http://www.srh.noaa.gov/crp/)  
WCM: Terry Huber  
Phone: 361-289-0959

### Dallas/Fort Worth

Web: [www.srh.noaa.gov/fwd/](http://www.srh.noaa.gov/fwd/)  
WCM: Gary Woodall  
Phone: 817-429-2631

### El Paso

Web: [www.srh.noaa.gov/elp/](http://www.srh.noaa.gov/elp/)  
WCM: John Fausett  
Phone: 505-589-4088

### Houston/Galveston

Web: [www.srh.noaa.gov/hgx/](http://www.srh.noaa.gov/hgx/)  
WCM: Gene Hafele  
Phone: 281-337-5074

### Lubbock

Web: [www.srh.noaa.gov/lub/](http://www.srh.noaa.gov/lub/)  
WCM: Ed Calianese  
Phone: 806-745-4260

### Midland/Odessa

Web: [www.srh.noaa.gov/maf/](http://www.srh.noaa.gov/maf/)  
WCM: Pat Vesper  
Phone: 915-563-5006

### San Angelo

Web: [www.srh.noaa.gov/sjt/](http://www.srh.noaa.gov/sjt/)  
WCM: Buddy McIntyre  
Phone: 915-944-9445

## Utah

### Salt Lake City

Web: [www.wrh.noaa.gov/Saltlake/](http://www.wrh.noaa.gov/Saltlake/)  
WCM: Dave Toronto  
Phone: 801-524-5113

## Vermont

### Burlington

Web: [www.nws.noaa.gov/er/btv/](http://www.nws.noaa.gov/er/btv/)  
WCM: Steve Hogan  
Phone: 802-862-2475

## Virginia

### Baltimore/Washington (Sterling)

Web: [www.nws.noaa.gov/er/lwx/](http://www.nws.noaa.gov/er/lwx/)  
WCM: Barbara Watson-McNaught  
Phone: 703-260-0107

### Roanoke

Web: [www.bev.net/weather/](http://www.bev.net/weather/)  
WCM: Mike Emlaw  
Phone: 540-552-0084

### Wakefield

Web: [www.nws.noaa.gov/er/akq/](http://www.nws.noaa.gov/er/akq/)  
WCM: Bill Sammler  
Phone: 757-899-4200

## Washington

### Seattle/Tacoma

Web: [www.wrh.noaa.gov/seattle/](http://www.wrh.noaa.gov/seattle/)  
WCM: Ted Buehner  
Phone: 206-526-6095

### Spokane

Web: [www.wrh.noaa.gov/Spokane/](http://www.wrh.noaa.gov/Spokane/)  
WCM: Ken Holmes  
Phone: 509-244-0110

## West Virginia

### Charleston

Web: [www.nws.noaa.gov/er/rlx/](http://www.nws.noaa.gov/er/rlx/)  
WCM: Dan Bartholf  
Phone: 304-746-0173

## Wisconsin

### Green Bay

Web: [www.crh.noaa.gov/grb/](http://www.crh.noaa.gov/grb/)  
WCM: Jeff Last  
Phone: 920-494-5845

### LaCrosse

Web: [www.crh.noaa.gov/arx/](http://www.crh.noaa.gov/arx/)  
WCM: Todd Shea  
Phone: 608-784-8275

### Milwaukee/Sullivan

Web: [www.crh.noaa.gov/mkx/](http://www.crh.noaa.gov/mkx/)  
WCM: Rusty Kapela  
Phone: 414-297-3243

## Wyoming

### Cheyenne

Web: [www.crh.noaa.gov/cys/](http://www.crh.noaa.gov/cys/)  
WCM: John Griffith  
Phone: 307-772-2468

### Riverton

Web: [www.crh.noaa.gov/riw/](http://www.crh.noaa.gov/riw/)  
WCM: Donald Noll  
Phone: 307-857-3898

## National Centers

### Air Weather Center

Web: [www.awc-kc.noaa.gov](http://www.awc-kc.noaa.gov)

WCM: Ron Olson

Phone: 816-584-7237

### National Hurricane Center (Tropical Prediction Center)

Web: [www.nhc.noaa.gov](http://www.nhc.noaa.gov)

WCM: Stacy Stewart

Phone: 305-229-4463

### Hydrometeorological Prediction Center

Web: [www.hpc.ncep.noaa.gov](http://www.hpc.ncep.noaa.gov)

WCM: Vacant

Phone: 301-763-8000 x7307

### Marine Prediction Center

Web: [www.mpc.ncep.noaa.gov](http://www.mpc.ncep.noaa.gov)

WCM: Vacant

Phone: 301-763-8097

### Storm Prediction Center

Web: [www.spc.noaa.gov](http://www.spc.noaa.gov)

WCM: Dan McCarthy

Phone: 405-579-0771

National Center for Atmospheric Research (NCAR)

P.O. Box 3000

Boulder, CO 8307-3000

Web: [www.ucar.edu](http://www.ucar.edu)

## NASA

Educational Affairs Division

NASA Headquarters

Washington, DC 20546

CORE (Central Operation of Resources for Educators)

Lorain County JVS

155181 Route 58 South

Oberlin, OH 44074

Phone: (216) 774-1057 Ext. 293 or 294

Fax: (216) 774-2144

National Geographic Society

Educational Services, Department 5368

Washington, DC 20036

NOAA Educational Affairs Division

Universal South Building, Suite 627

1825 Connecticut Avenue, N.W.

Washington, DC 20235

NOAA Information Service (NIS)

NIS Information Specialist

Phone: (202) 842-7460 in D.C.

(206) 526-9403 for Washington state

Monday-Friday, 8:30-4:30

U. S. Department of Agriculture (USDA)

National Agricultural Library

Public Services Division

Beltsville, MD 20705

U.S. Department of Energy (DOE)

Office of University and Science Education

1000 Independence Avenue, S.W.

Washington, DC 20585

U.S. Environmental Protection Agency (EPA)

Public Information Center

401 M Street, S.W.

Washington, DC 20009

Phone: (202) 260-7751

U.S. Geological Survey (USGS)

U.S. Department of the Interior

Public Inquiries Office

302 National Center

Reston, VA 22092

The Weather Channel

Educational Services

300 Interstate North Parkway

Atlanta, GA 30339

Web: [www.weather.com](http://www.weather.com)

Weather Modification Association

P.O. Box 8116

Fresno, CA 93727-8116

Phone: (209) 436-3486

## Organizations

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Aircraft Owners and Pilots Association (AOPA)

421 Aviation Way

Frederick, MD 21701

Air Pollution Control Association

440 Fifth Avenue

Pittsburgh, PA 15213

American Geological Institute (AGI)

National Center for Earth Science Education

4220 King Street

Alexandria, VA 22302

Phone: (703) 379-2480

Bureau of Science Education

New York State Education Department

Albany, NY 12234

Climate Protection Institute

5833 Balmoral Drive

Oakland, CA 94619

Phone: (510) 451-0905

Council on Environmental Quality (CEQ)

722 Jackson Place

Washington, DC 20006

The Everyday Weather Project

National School Weather Project

State University of New York College at Brockport

Brockport, NY 14420

Federal Aviation Administration (FAA)

U.S. Department of Transportation

Washington, DC 20591

For Spacious Skies

54 Webb Street

Lexington, MA 02173

## **Powers of Nature Exhibit**

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Powers of Nature travels to large museums during its tour over the next several years. It has realtime data, and many portions that are interactive. While the exhibit includes earthquakes and volcanoes, the largest portion is on weather. This traveling exhibit was produced by the Franklin Institute. The following is the remaining schedule of openings:

- October 2000  
Museum of Science Boston
- April 2001  
Museum of Science and Industry Chicago

## 11. ABBREVIATIONS

AAAS	American Association for the Advancement of Science
AAPT	American Association of Physics Teachers
AERA	Atmospheric Education Resource Agent for the AMS
AGU	American Geophysical Union
AMS	American Meteorological Society
CMOS	Canadian Meteorological and Oceanographic Society
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
ISBN	International Standard Book Number
ISSN	International Standard Serial Number
NAGT	National Association of Geology Teachers
NASA	National Aeronautics and Space Administration
NCAR	National Center for Atmospheric Research
NCDC	National Climatic Data Center
NESTA	National Earth Science Teachers Association
NOAA	National Oceanic and Atmospheric Administration
NSSL	National Severe Storms Laboratory
NSTA	National Science Teachers Association
NWA	National Weather Association
NWS	National Weather Service
NWSFO	National Weather Service Forecast Office
UCAR	University Corporation for Atmospheric Research
WMO	World Meteorological Organization