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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.

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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
UCAR on web:  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/

- **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**

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
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.

• 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

• Conference Reports on popular meteorological education
  AMS, 1999: Preprints, Eighth Symposium on Education, Dallas, TX.

• Articles on meteorological education

• 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:


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)**

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

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.

**American Geological Institute**

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:


American Geological Institute
National Center for Earth Science Education
4220 King Street
Alexandria, VA 22302
Phone: (703) 379-2480

**Educators Progress Service**

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

Educators Progress Service
214 Center Street
Independent Study Courses

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:


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)

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.

•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/. Order online (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

•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

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


National Earth Science Teachers Association (NESTA)

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)

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)

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

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/codef/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

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 Mesonetwork (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 audiovisual materials include several indexes published by the National Information Center for Educational Media (NICEM):

- AAAS publications (Section 3).
- Annual guides produced by Educators Progress Service, Randolph, WI (Section 3).

### 4.1. Videocassettes

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<tr>
<th>Title</th>
<th>Source</th>
<th>Date</th>
<th>Length (minutes)</th>
<th>Cost</th>
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<td>A</td>
<td>After The Warming, Episode One: The Fatal Flower</td>
<td>Ambrose Video Publishing Co.</td>
<td>1990</td>
<td>56</td>
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<td></td>
<td>After The Warming, Episode Two: Secret Of The Deep</td>
<td>Ambrose Video Publishing Co.</td>
<td>1990</td>
<td>56</td>
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<td></td>
<td>The Atmosphere In Motion</td>
<td>United Learning</td>
<td>1995</td>
<td>21</td>
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<tr>
<td></td>
<td>The Atmosphere, Climate And Weather</td>
<td>CLEARVUE/eav</td>
<td>–</td>
<td>48</td>
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<tr>
<td></td>
<td>The Awesome Power: Floods</td>
<td>NOAA-NWS</td>
<td>1988</td>
<td>17</td>
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<tr>
<td>B</td>
<td>Behind The Scenes Weathercast</td>
<td>United Learning</td>
<td>1995</td>
<td>6</td>
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<tr>
<td></td>
<td>Bill Nye (each tape has 2 shows + poster)</td>
<td>Disney Educational Productions</td>
<td>1998</td>
<td>52</td>
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<tr>
<td></td>
<td>Earth's Seasons, Climates</td>
<td>Disney Educational Productions</td>
<td>1998</td>
<td>52</td>
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<tr>
<td></td>
<td>Storms, Fluids</td>
<td>Disney Educational Productions</td>
<td>1998</td>
<td>52</td>
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<tr>
<td></td>
<td>Water Cycle, Oceanography</td>
<td>Disney Educational Productions</td>
<td>1998</td>
<td>52</td>
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<tr>
<td></td>
<td>Waves, Wind</td>
<td>Disney Educational Productions</td>
<td>1998</td>
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<td></td>
<td>Atmosphere, Flight</td>
<td>Disney Educational Productions</td>
<td>1998</td>
<td>52</td>
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<td>Blown Away: Tornadoes</td>
<td>USA Teleproductions</td>
<td>1996</td>
<td>22</td>
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<td>Bringing Home The Weather</td>
<td>Weather Channel</td>
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<td>The Chase</td>
<td>BVE Productions, Inc.</td>
<td>–</td>
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<td>Chase Highlights 98</td>
<td>William Reid</td>
<td>1998</td>
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<td>The Chasers Of Tornado Alley</td>
<td>Prairie Pictures</td>
<td>–</td>
<td>48</td>
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<td></td>
<td>Chase To Live 6-15-91</td>
<td>Gene Rhoden</td>
<td>1992</td>
<td>40</td>
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<tr>
<td></td>
<td>Chasing El Niño</td>
<td>NOVA</td>
<td>–</td>
<td>60</td>
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<td></td>
<td>Chasing The Wind</td>
<td>Plano, Texas TV Network</td>
<td>1991</td>
<td>27</td>
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<td></td>
<td>Climate &amp; Seasons</td>
<td>Schlessinger Video</td>
<td>1998</td>
<td>–</td>
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<tr>
<td></td>
<td>The Climate Puzzle</td>
<td>PBS-TV</td>
<td>–</td>
<td>55</td>
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<td></td>
<td>Climate, Weather, And People</td>
<td>Hawkhill Associates</td>
<td>1997</td>
<td>172</td>
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<td></td>
<td>Clouds: Messengers Of The Weather</td>
<td>Educational Filmstrip and Video</td>
<td>1997</td>
<td>50</td>
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<td></td>
<td>Clouds &amp; Precipitation</td>
<td>Coronet Films &amp; Video</td>
<td>1985</td>
<td>15</td>
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<tr>
<td></td>
<td>Clouds And What They Mean</td>
<td>CLEARVUE/eav</td>
<td>–</td>
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<td></td>
<td>Cracking The Ice Age</td>
<td>NOVA/PBS-TV*</td>
<td>1998</td>
<td>60</td>
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<tr>
<td></td>
<td>Cyclone!</td>
<td>National Geographic*</td>
<td>1998</td>
<td>50</td>
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<tr>
<td>D</td>
<td>Danger's Edge (Hurricanes)</td>
<td>Weather Channel</td>
<td>1991</td>
<td>25</td>
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<td>The Deadliest Storm</td>
<td>KSNW-TV, Wichita, KS</td>
<td>1991</td>
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<td>Deadly Waters: Flood Of ‘94</td>
<td>Historic Publications</td>
<td>–</td>
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<tr>
<td>Title</td>
<td>Producer/Source</td>
<td>Year</td>
<td>Duration</td>
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<td><strong>Drought And Flood: Two Faces Of One Coin</strong></td>
<td>Films for the Humanities&amp;Science</td>
<td>1990</td>
<td>18</td>
<td>$34.95</td>
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<td><strong>Dynamic Earth</strong></td>
<td>The Learning Channel</td>
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<tr>
<td><strong>Earth Science for Children: All About the Weather Cycle</strong></td>
<td>Schlessinger Science Library</td>
<td>2000</td>
<td>23</td>
<td>$29.95</td>
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<td><strong>Earth Science in Action: The Water Cycle</strong></td>
<td>Schlessinger Science Library</td>
<td>2000</td>
<td>23</td>
<td>$39.95</td>
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<tr>
<td><strong>Electrical Skies</strong></td>
<td>Joel Hartless</td>
<td>1998</td>
<td>15</td>
<td>$24.95</td>
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<td><strong>El Niño: Drought To Deluge</strong></td>
<td>Weather Channel</td>
<td>1992</td>
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<td><strong>El Niño &amp; The Link Between Oceans, Atmosphere, And Weather</strong></td>
<td>CLEARVUE/eav</td>
<td>--</td>
<td>22</td>
<td>$70.00</td>
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<td><strong>End of the Golden Weather</strong></td>
<td>Bonneville Worldwide Entertain.</td>
<td>1998</td>
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<td>$19.95</td>
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<td><strong>The Enemy Wind (tornadoes)</strong></td>
<td>Weather Channel</td>
<td>1992</td>
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<td><strong>Everyday Weather: Hurricanes</strong></td>
<td>SUNY-Brockport &amp; Weather Ch.</td>
<td>1986</td>
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<td><strong>Everyday Weather: The Sense Of Weather</strong></td>
<td>SUNY-Brockport &amp; Weather Ch.</td>
<td>1989</td>
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<td><strong>Everyday Weather: Thunderstorms</strong></td>
<td>SUNY-Brockport &amp; Weather Ch.</td>
<td>1987</td>
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<td><strong>Eye of the Storm: Hurricanes</strong></td>
<td>Weather Channel</td>
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<td><strong>Eyewitness: Weather</strong></td>
<td>Dorling Kindersley Video</td>
<td>1996</td>
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<td><strong>Five Great Weather Disasters</strong></td>
<td>Weather Channel</td>
<td>1997</td>
<td>50</td>
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<td><strong>Flash to Bang</strong></td>
<td>United Learning</td>
<td>1995</td>
<td>19</td>
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<td><strong>Flood!</strong></td>
<td>NOVA/PBS-TV*</td>
<td>1998</td>
<td>60</td>
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<td><strong>Flood: Raging Planet</strong></td>
<td>Teacher's Video Company</td>
<td>1998</td>
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<td><strong>Force Four (Hurricanes)</strong></td>
<td>Weather Channel</td>
<td>1990</td>
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<td><strong>Forty-six Tornadoes</strong></td>
<td>Berger Productions</td>
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<td><strong>Global Climate</strong></td>
<td>National Geographic Television</td>
<td>1998</td>
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<td>$99.00</td>
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<td><strong>Global Warming: Future Quest</strong></td>
<td>Hawkhill Associates, Inc.</td>
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<td><strong>Global Winds</strong></td>
<td>Coronet Film &amp; Video</td>
<td>1985</td>
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<td><strong>The Great Chicago Flood</strong></td>
<td>Explorer*</td>
<td>1998</td>
<td>30</td>
<td>$29.95</td>
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<td><strong>Great New Jersey Coastal Storm Of the 20th Century</strong></td>
<td>G. Hoffman</td>
<td>--</td>
<td>90</td>
<td>$24.00</td>
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<tr>
<td><strong>Greenhouse Effect: Is It Hot Enough For You?</strong></td>
<td>PBS-TV</td>
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<td><strong>Hands-on Weather/Weather Experiments</strong></td>
<td>United Learning</td>
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<td>$79.95</td>
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<td><strong>Hands-on Weather 2/More Weather Experiments</strong></td>
<td>United Learning</td>
<td>1999</td>
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<td><strong>The Hidden Dangers: Low-Water Crossing</strong></td>
<td>NOAA-NWS</td>
<td>1996</td>
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<td><strong>The Hugo Video Scrapbook</strong></td>
<td>WSOCTV, Charlotte, NC</td>
<td>1989</td>
<td>60</td>
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<td><strong>Hurricane</strong></td>
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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 Weather Works
301 Creek Valley Lane
Rockville, MD 20850
Phone: (301) 762-7669
Phone: (orders only) 1-800-8CLOUD9

KWTX 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 80227-0778
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
4.3. SLIDES

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
  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

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

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

•The Global Climate
  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
  Sky Guide
  P.O. Box 30027
  Greenwood Station
  Seattle, WA 98103-0027
  Phone: (206) 782-8485
  Web: www.weatherworks.com

•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

 • World Meteorological Organization Cloud Sheet
 American Meteorological Society
 45 Beacon Street
 Boston, MA 02108-3693
 Phone: (617) 227-2425
 Web: 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.


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
Alabama's Weather (The Complete Guide To…)
Phone: (205) 979-2909
All About Lightning
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
Atmosphere, Weather and Climate
Atmospheric Halos
The Audubon Society Field Guide to North American Weather

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

C Climate, Change and Risk
Climate Process and Change
The Climate and Weather of Florida
The Climate of Fear: Why We Shouldn't Worry About Global Warming
Climates and Weather Explained
Compete Idiot's Guide to the Weather
Complete Weather
Crazy Weather

D Decade-to-Century-Scale Climate Variability and Change: A Science Strategy
Isaac's Storm  
Phone: (800) 793-2665

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

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

La Atmosfera y El Tiempo (Eyewitness Series in Spanish)  

The Living Earth Book of Wind and Weather  

Mountain Weather: A Guide for Skiers and Hillwalkers  

National Audubon Society Pocket Guide to Clouds and Storms  

North Carolina’s Hurricane History: Revised and Updated Edition  

Now to the Weather: Confessions of a TV Weatherman  
Eagle Eye Publishing, P.O. Box 5049, South Frankston, Victoria 3199, Australia. $19.95.

Partly Sunny: The Weather Junkie’s Guide to Outsmarting the Weather  

Peterson Guide to Clouds and Weather  

Planet Earth and the New Geoscience  

Pocono Weather  

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

Rains All the Time  

Rising Tide: The Great Mississippi Flood of 1927 and How it Changed America  
Simon & Schuster, 524 pp., $27.50.

The Sailor’s Weather Guide  

The Severe Local Storms Forecasting Primer  
TSLSP, 140 S. Kirkland Street, Florence, AL 35630-4312. $40.00.

Skywatch: The Eastern Weather Guide  

Skywatch: The Western Weather Guide  

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  
Phone: (800) 233-8787

Spacious Skies  

The Stories Clouds Tell  

Storms  
Phone: (970) 482-6874

Storm Talk  

Stormy Weather  

Terror from the Skies!  
Phone: (816) 628-4770  
Email: chaston111@aol.com

Texas Weather  

Thunder in the Heartland, A Chronicle of Outstanding Weather Events in Ohio  
Phone: (330) 672-7913
Thunderstorms: A Social, Scientific, and Technological Documentary

Tornado: Accounts of Tornadoes in Iowa

Tornado: Its Structure, Dynamics, Predictions, and Hazard

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

The Traveler’s Weather Guide

Understanding Weather and Climate

Under the Whirlwind

Watching Weather

Weather


Weather

Weather At Sea

The Weather Almanac 1995 (USA Today)

Weather Basics
Phone: (816) 628-4770
Email: chaston111@aol.com

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

Weather Cycles: Real or Imaginary?

Weather (Earth Science Library)

Weather Eye

Weather Eye
Phone: (612) 871-3505.
Fax: (612) 871-3358.

The Weather Eye

Weather Facts (Dk Pockets)

Weather (Focus on Disasters)

Weather Forecasting: For Outdoor Enthusiasts

Weather: A Golden Guide

The Weather Handbook

Weather In the Garden

Weather Maps
Phone: (816) 628-4770
Email: chaston111@aol.com

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

Weather and People

The Weather Revolution: Innovations and Imminent Breakthroughs in Accurate Forecasting
The Weather Sourcebook: Your One-Stop Resource for Everything You Need to Know to Feed Your Weather Habit

Weather (Spotter's Guide Series)

Weathering the Storm
University of Oklahoma Press, Dept. MAR2, 1005 Asp Avenue, Norman, OK 73019.
Phone: (800) 627-7377.

Weather Watch

Weather Wisdom: Proverbs, Superstitions, and Signs

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

Weird Weather

What's In the Air: Natural and Man-Made Air Pollution
Phone: (805) 643-6279.

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

Windows on Meteorology—Australian Perspective

The Wonders of the Weather

The World of Weather

The Year of the Storms: Destructive Kansas Weather of 1990

5.2. GENERAL INTEREST - Children's Level

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

All Aboard Reading

All About the Weather (Early Birds)

All-Weather Friends

The Amateur Meteorologist: Explorations and Investigations (Amateur Science)

Anytime Weather Everywhere

B
Barney's Weather Book

Be Your Own Weather Expert

Blizzards (New True Books)

Boo and Baa in Windy Weather

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

Chloe
1998, Sterling Pub. $5.95 each.
-Chloe's Sunny Day, ISBN 186233031X.

Cloudy Day Sunny Day

Discover Nature in the Weather
N
National Audubon Society First Field Guide: Weather

O
Our Changing Planet: How Volcanoes, Earthquakes, Tsunamis, and Weather Shape Our Planet

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

Professor Fergus Fahrenheit and His Wonderful Weather Machine

Punxsutawney Phil and His Weather Wisdom

Q
Questions and Answers About Weather

Rain (Sequences of Earth and Space)

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

Rivers and Oceans

Science in the Air (How and Why Science)

The Sierra Club Book of Weatherwisdom

Sky (National Geographic Nature Library)

Sky and Weather

Snow

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

Stormy Weather (Ready-To-Read)

Sun, Snow, Stars, Sky

T
Teaching You About Weather With Stories That Rhyme

Tell Me Why Rain Is Wet (Whiz Kids)

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

Tornado

Tornado

U
Unit About Weather

W
Wacky Weather (How It Works)

Watching Weather (Accidental Scientist)

Watching the World’s Weather

Water

Water (Against the Elements)

Water Up, Water Down: The Hydrologic Cycle

Weather

Weather

Weather

Weather

Weather
Weather

Weather

Weather

Weather

Weather

Weather (Accelerated Reading Program Grades 1-2)

Weather Around You (Geography Starts Here)

Weather Channel

Weather and Climate

Weather and Climate

Weather and Climate

Weather: Drama of the Heavens (Discoveries)

Weather Everywhere


Weather Forecaster

The Weather Genie

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

The Weather and Its Secrets

Weather (Let's Investigate Science)

Weather (Little Princess Board Books)

Weather (Nature Company Guides)

Weather: The Nature Company Journals

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

Weather: Poems (An I Can Read Book)

Weather Report

Weather and Seasons (Bip Quiz Series)

The Weather Sky

Weather Walkabout

Weather Watch

Weather Watch (First Science)

Weather Words and What They Mean
Weather (Young Scientist Concepts and Projects)

What Is Weather

What's the Weather

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

Why Does Lightning Strike? Questions Children Ask About the Weather

Why Do We Have Wind and Rain?

Wild Weather (Hello Reader)
- Hurricane

5.3. REFERENCE BOOKS

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

• Aviation Weather

• Aviation Weather and Weather Services

• Calculating the Weather: Meteorology in the 20th Century

• Encyclopedia of Climate and Weather, Volumes 1 & 2

• Gale Research, Inc. Datasets


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

• Glossary of Meteorology

• Glossary of Weather and Climate

• Handbook of Applied Meteorology
• **Meteorological and Geoastrophysical Abstracts**
  Current abstracts are indexed from domestic and foreign sources covering meteorology, climatology, hydrology, glaciology, and environmental sciences.
  Meteorological and Geoastrophysical Abstracts
c/o Inforonics, Inc.,
550 Newtown Road/POB 458
Littleton, MA 01460
Phone: (508) 486-8976
Fax: (508) 486-0027

• **Meteorological Glossary**

• **Significant Tornadoes, 1880-1989**

• **Traveler's Weather Guide**

• **Weather Almanac: A Reference Guide to Weather, Climate, and Air Quality in the United States and Its Key Cities**

• **Weather America: The Latest Detailed Climatological Data for Over 4,000 Places--With Rankings**

• **Weather of United States Cities**

• **World Weather Extremes**

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

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**
  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

• **Atmospheric Detectives. Atlas 2 Teacher’s Guide with Activities**

• **Calendar Activity**

• **Dr. Fred's Weather Watch**

• **Earth: A Creative, Hands-on Approach to Science**

• **Earth Science for Every Kid: 101 Easy Experiments That Really Work**
• **Experimenting with Air and Water**  

• **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**  

• **A Look at Weather: Activities for the Primary Student**  

• **Making and Using Your Own Weather Station**  

• **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**  

• **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**  

• **Weather Forecasting: A Young Meteorologist's Guide**  

• **Weather In the Lab**  

• **Weather Quiz Deck**  
  1999. Scientific American Knowledge Cards. $9.95 Phone: (800) 227-1428
5.5. TEXTBOOKS

- **Applications of Weather Radar Systems: A Guide to Uses of Radar Data in Meteorology and Hydrology**

- **The Atmosphere: An Introduction to Meteorology**

- **Atmosphere, Weather, and Climate**

- **Economic Value of Weather and Climate Forecasts**

- **Essentials of Weather**

- **Images in Weather Forecasting: A Practical Guide for Interpreting Satellite and Radar Imagery**

5.6. GOVERNMENT PUBLICATIONS

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:

<table>
<thead>
<tr>
<th>Publication</th>
<th>No.</th>
<th>Web</th>
</tr>
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<tr>
<td><strong>Aviation</strong></td>
<td>93056</td>
<td><a href="http://www.nws.noaa.gov/om/pilot.htm">www.nws.noaa.gov/om/pilot.htm</a></td>
</tr>
<tr>
<td>A pilot’s guide to aviation weather services</td>
<td></td>
<td></td>
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<tr>
<td>Aviation modernization</td>
<td>94051</td>
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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)
ASOS guide for pilots (Booklet) 96076  www.nws.noaa.gov/om/asosbook.htm
Key to aerodrome forecast (TAF) & aviation routine weather report (METAR) (Card) 96052

**Dust storms**
Dust storm driving safety (Wallet card) 82002  www.nws.noaa.gov/om/duststrm.htm

**Flash floods and floods**
Red Cross Poster–Are You Ready for a Flood or a Flash Flood? (English/Spanish) *92062
Flash flood (Wallet card) 77014  www.nws.noaa.gov/om/flashfld.htm
Flash floods and floods . . . The awesome power! 92050  www.nws.noaa.gov/om/ffbro.htm
The hidden danger—Low water crossing 96074  www.nws.noaa.gov/oh/tt2/xwater/index.shtml
Red Cross–Are you ready for a flood or flash flood? –English 92059  www.redcross.org/disaster/safety/floods.html
Red Cross–Are you ready for a flood or flash flood? – Spanish 92060  www.redcross.org/disaster/safety/floodspn.html
River and flood program (Hydrologic services program) 94059

**Hazards and preparedness**
FEMA’s emergency preparedness materials catalog 92054
SKYWARN decal 92051

**Heat waves**
Heat wave 85001  www.nws.noaa.gov/om/heatwave.pdf
Red Cross–Are you ready for a heat wave? - English 94052
  www.redcross.org/disaster/safety/heat.html
Red Cross–Are you ready for a heat wave? - Spanish 94056
  www.redcross.org/disaster/safety/heatwspn.html

**Hurricanes**
Atlantic hurricane names –  www.nhc.noaa.gov/aboutnames.html
Atlantic hurricane tracking map–8 1/2” by 11” 96071  www.nhc.noaa.gov/gifs/track_chart.gif (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  www.nws.noaa.gov/om/hurfam.pdf
Pacific hurricane names –  www.nhc.noaa.gov/aboutnames.html
Hurricanes . . . Unleashing nature’s fury 94050  www.nws.noaa.gov/om/hurrbro.htm (or hurr.pdf)
Pacific hurricane tracking map–12” by 24” 96073
Red Cross–Are you ready for a hurricane? -English 94053  www.redcross.org/disaster/safety/hurrican.html
Red Cross–Are you ready for a hurricane? - Spanish 94054  www.redcross.org/disaster/safety/hurrspn.html
Red Cross Poster–Are you ready for a hurricane? (English/Spanish) 94055
Survival in a hurricane (Wallet card) - English 70027  www.nws.noaa.gov/om/hurrincne.htm
Survival in a hurricane (Wallet card) - Spanish 85006  www.nws.noaa.gov/om/hurrspan.htm

**Marine**
Mariner’s guide to marine weather services (Booklet) 92056  www.nws.noaa.gov/om/marine2.htm
Safe boating weather tips 94058  www.nws.noaa.gov/om/safeboat.htm
Tsunami: The Great Wave –  www.nws.noaa.gov/om/tsunami.htm

**Natural hazards**
FEMA's Emergency Preparedness Materials Catalog 92054
Natural hazard watch & warning poster - English 86001  www.nws.noaa.gov/om/nh-mastr.htm
Natural hazard watch & warning poster - Spanish 86001  www.nws.noaa.gov/om/nh-massp.htm

**NOAA**
A change in the National Weather Service 93059
National Centers for Environmental Prediction 96051
NOAA Brochure 92501
NOAA Weather Radio brochure 96070  www.nws.noaa.gov/nwr/nwrback.htm (or nwr.pdf)
NOAA Weather Radio decal 96053
NOAA Weather Radio frequency pamphlet 94061

**Severe thunderstorms**
Advanced spotter's field guide 92055  www.nws.noaa.gov/om/advspg.pdf
Basic spotters’ field guide 97050 www.nws.noaa.gov/om/basicspot.pdf
Owlie Skywarn - Watch out storms ahead 82004 www.crh.noaa.gov/mkx/owlie/owlie.htm
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 www.nws.noaa.gov/om/trwbro.htm (or tstorm.pdf)

**Tornadoes**
Red Cross–Are you ready for a tornado? 92057 www.redcross.org/disaster/safety/tornados.html
Red Cross–Are you ready for a tornado? (Spanish) 92058 www.redcross.org/disaster/safety/tornaspn.html
Red Cross Poster–Are you ready for a tornado? (English/Spanish) *92061
Tornadoes . . . Nature’s most violent storms 92052 www.nws.noaa.gov/om/tornado.htm (or tornado.pdf)
Tornado safety tips (Como protegerse en caso de tornado (Wallet card) 85005

**Winter storms**
Red Cross–Are you ready for a winter storm? 91003 www.redcross.org/disaster/safety/winter.html
Red Cross–Are you ready for a winter storm? (Spanish) 91004 www.redcross.org/disaster/safety/wintrspn.html
Red Cross Poster–Are you ready for a winter storm? (English/Spanish) 91005
Winter storms . . . The deceptive killers 91002 www.nws.noaa.gov/om/wntrstm.htm

* Available only from your local Red Cross chapter  
# Text only available at www.nws.noaa.gov/om.nwspub.htm

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**National Weather Service, NOAA**

*Owlie Skywarn* series of severe weather booklets.


*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

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**Ozone**

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

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**Superintendent of Documents**

A listing of low-cost government publications applicable to weather is available free of charge by writing to:

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**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

**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

**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 12222, Arlington, TX 76012. $14.00 per year.
Web: www.tessa.org

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5.8. OTHER SCIENCE PERIODICALS

• 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

5.9. INSTRUCTIONAL PERIODICALS

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.
5.10. WEATHER ALMANACS AND CALENDARS

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

• 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:


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.

• BoxTopics: 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.
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.

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**Climate**
- Climate Change: www.cip.openg.noaa.gov
- Climate Prediction Center: www.cpc.ncep.noaa.gov
- Colorado Climate Center: ulysses.atmos.colostate.edu
- El Niño/La Niña:
  - NOAA: www.elnino.noaa.gov
  - National Climatic Data Center: ibis.grdl.noaa.gov/SAT/near_rt/enso/topex_97.html
- El Niño/La Niña:
  - UCAR: www.esrl.noaa.gov/un/index.html
- Environmental News Network: www.enn.com/specialreports/climate/
- Environmental Protection Agency: www.epa.gov/globalwarming/
- Climate Summaries for Cities and States: www.cdc.noaa.gov/USclimate
- Human Dimension of Climate/Meteorological Hazard:
  - www.fragilecolonies.com/mgliantz
- National Climatic Data Center, NOAA:
  - www.ncdc.noaa.gov/
  - www.ncdc.noaa.gov/ol/reports/weather-events.html

**Current U.S. Weather**
- AccuWeather: www.accuwx.com
- Forecast Systems Laboratory, NOAA: www.fsl.noaa.gov/docs/wthr/fsl-weather.html
- NWS - Interactive Weather Information Network:
  - www.rap.ucar.edu/weather/
  - weather.gov/
- Oklahoma Weather Roundup:
  - www.caps.ou.edu/wx/
  - www.ems.psu.edu/wx/
- Pennsylvania State University:
  - weather.unisys.com/
- Purdue University - UNISYS:
  - www.met.tamu.edu/weather.shtml
- The Weather Underground, University of Michigan:
  - cirrus.sprl.umich.edu/wxnet/
  - www.ssec.wisc.edu/data/
- University of Wisconsin:
  - www.usatoday.com/weather/
- USA Today Weather Page:
  - www.weather.com
- The Weather Channel:
  - cirrus.sprl.umich.edu/wxnet/servers.html
- Weather Links:
  - www.wgnr.com
- WGN-TV, Chicago:
  - www-dd.fsl.noaa.gov/online.html

**Federal Agencies (Except NOAA)**
- Federal Emergency Management Agency (FEMA):
  - www.fema.gov
  - www.fema.gov/mit/bpat/
  - www.fema.gov/library/toc.doc
  - www.fema.gov/saferoom/
  - www.fema.gov/kids
- NASA:
  - www.nasa.gov
  - www.hq.nasa.gov/office/codef/education
  - www1.msfc.nasa.gov/
  - www.nasa.gov/office/pao/History/weathsat.html
- USGS:
  - spaceflight.nasa.gov/realldata/weather/

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Tropical Rainfall Measuring Mission (TRMM)  
National Center for Atmospheric Research (NCAR)  
   Atmospheric Technology Division  
   COMET  
   MM5 Computer Model  
   Photo Archive  
Time  
Time Zone Conversions  
Water Information – USGS  
Univ. Corp. for Atmospheric Research (UCAR)  
USGS Real-time Streamflow and Lake Level Data  

All Foreign Weather Agencies  
   (World Meteorological Organization)  
   Australia  
   Brazil (Portuguese)  
   Canada  
      Canadian Meteorological Centre  
      Canadian Storm Chasers  
      Environment Canada (English and French)  
      Montréal (French)  
   Finland  
   France (French)  
   Hungary (Hungarian)  
   Indonesia  
   Spain (Spanish)  
Worldwide 5-day Forecasts  

Foreign Weather  

Alberta, Canada Lightning (Fire Weather)  
Children’s Lightning Safety  
   Sabrina Harwood  
   Kids’ Safety Essay  
Global Atmospherics, Inc.  
Lightning Safety Group Recommendations  
Lightning Strike and Electric Shock Survivors International, Inc.  
   National Lightning Safety Institute  
   Optical Transient Detector  
   Sprites and Jets  
   Striking Images  
   Univ. of Illinois at Chicago - Medical/Dr. Cooper  

Lightning  

American Meteorological Society (AMS)  
   Blue Hill Observatory  
   Careers in Atmospheric Science  
   COMET  
   COMET – Meteorological Education  
   DataStreme - University of Wisconsin  
   Dictionary of Science (Academic Press)  
   GLOBE  
   Glossary of Weather  
   How the WeatherWorks  
   Jobs for Meteorologists  
   One Sky, Many Voices Project  
   Oakfield, Wisconsin Tornado  
   SkyMath: Making Mathematical Connections  
   Tornadoes: Going Around in Circles  

Meteorological Education Sites  

www.ametsoc.org/AMS/amsedu/index.html  
www.bluehill.org  
www.ametsoc.org/AMS/AtmosCareers/  
comet.ucar.edu  
meted.ucar.edu  
www.meteor.wisc.edu/~hopkins/ams/  
www.harcourt.com/dictionary  
www.globe.gov  
www.weather.com/glossary/wx_glossary_a.html  
www.weatherworks.com  
bluesky.ecas.ou.edu/~sstrum/wxcomps.html  
groundhog.sprl.umich.edu  
cimss.ssec.wisc.edu/oakfield/cs1.htm  
www.unidata.ucar.edu/staff/blynds/Skymath.html  
whyfiles.news.wisc.edu/013tornado/
University of Illinois
Weather and Atmosphere Curriculum
The Weather World 2010 Project
www.athena.wednet.edu/curric/index.html
ww2010.atmos.uiuc.edu
Weather (various exhibits)
www.learner.org/exhibits/weather
USA Today Weather Page
www.usatoday.com/weather/
The Weather Channel
www.weather.com/education/index.html
World Meteorological Organization
www.wmo.ch/web/etr/etrp98.html

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)

Meteorological and Science Organizations
www.aaas.org
www.agu.org
www.ametsoc.org/AMS/
www.ametsoc.org/AMS/amschaps/index.html
www.nwas.org
www.nwas.org/chapters.html
www.storm-track.com/
www.wmo.ch

Meteorology at U.S. Universities
www.ugems.psu.edu/~owens/WWW.Virtual_Library/metschool.html
saguaro.la.asu.edu/geography
colorado.colostate.edu
Bill Gray's Atlantic Seasonal Hurricane Forecast
typhoon.atmos.colostate.edu/forecasts/
Florida State University
www.met.fsu.edu
Georgia Institute of Technology
www.eas.gatech.edu/eas.html
Harvard University
www-as.harvard.edu
Iowa State University
www.public.iastate.edu/~wxintro/atmos.html
Jackson State University
santa.jsums.edu
Lyndon State College
apollo.lsc.vsc.edu
Massachusetts Institute of Technology
www-eaps.mit.edu
Northern Illinois University
taiga.geog.niu.edu/main.html
Ohio State University - Daily Severe Weather Log
asp1.sbs.ohio-state.edu/text/wxascii/sels/WWUS60.KMKC
Oregon State University
www.orst.edu:80/mc/coldep/oceatm/atmsci.htm
Pennsylvania State University
www.met.psu.edu
Purdue University
wxp.eas.purdue.edu
Saint Louis University
www.eas.slu.edu/index.html
State University of New York at Albany
www.atmos.albany.edu
Texas A & M University
www.met.tamu.edu
University of Alabama at Huntsville
www.gi.alaska.edu
University of Arizona
www.atmo.arizona.edu
University of California at Los Angeles
www.atmos.ucla.edu
University of Chicago
geosci.uchicago.edu
University of Georgia
cacimbo.ggy.uga.edu
University of Hawaii
lumahai.soest.hawaii.edu
University of Illinois
atmos.uiuc.edu
University of Maryland
www.metolab3.umd.edu/meteorology.html
University of Miami
www.rsmas.miami.edu/msc/index.html
University of Michigan
aoss.engin.umich.edu
University of Oklahoma
rossby.metr.ou.edu/~som
University of Utah
www.met.utah.edu
University of Washington
www.atmos.washington.edu
University of Wisconsin
www.meteor.wisc.edu
University of Wyoming
www-das.uwyo.edu

Natural Hazards
www.redcross.org/disaster/masters
meted.ucar.edu/hurrican/chp/index.htm
www.ag.ndsu.nodak.edu/flood/home.htm
www.binomial.com
www.fema.gov/mit/

All Meteorology Colleges and Universities in World
Arizona State University
Colorado State University
typhoon.atmos.colostate.edu/forecasts/
Bill Gray's Atlantic Seasonal Hurricane Forecast
Florida State University
www.met.fsu.edu
Georgia Institute of Technology
www.eas.gatech.edu/eas.html
Harvard University
www-as.harvard.edu
Iowa State University
www.public.iastate.edu/~wxintro/atmos.html
Jackson State University
santa.jsums.edu
Lyndon State College
apollo.lsc.vsc.edu
Massachusetts Institute of Technology
www-eaps.mit.edu
Northern Illinois University
taiga.geog.niu.edu/main.html
Ohio State University - Daily Severe Weather Log
asp1.sbs.ohio-state.edu/text/wxascii/sels/WWUS60.KMKC
Oregon State University
www.orst.edu:80/mc/coldep/oceatm/atmsci.htm
Pennsylvania State University
www.met.psu.edu
Purdue University
wxp.eas.purdue.edu
Saint Louis University
www.eas.slu.edu/index.html
State University of New York at Albany
www.atmos.albany.edu
Texas A & M University
www.met.tamu.edu
University of Alabama at Huntsville
www.gi.alaska.edu
University of Arizona
www.atmo.arizona.edu
University of California at Los Angeles
www.atmos.ucla.edu
University of Chicago
geosci.uchicago.edu
University of Georgia
cacimbo.ggy.uga.edu
University of Hawaii
lumahai.soest.hawaii.edu
University of Illinois
atmos.uiuc.edu
University of Maryland
www.metolab3.umd.edu/meteorology.html
University of Miami
www.rsmas.miami.edu/msc/index.html
University of Michigan
aoss.engin.umich.edu
University of Oklahoma
rossby.metr.ou.edu/~som
University of Utah
www.met.utah.edu
University of Washington
www.atmos.washington.edu
University of Wisconsin
www.meteor.wisc.edu
University of Wyoming
www-das.uwyo.edu

Children’s Disaster Safety
Community Hurricane Preparedness
Coping With Floods
Disaster Recovery
FEMA (see also subjects under Federal)
| Natural Hazards Center - Univ. of Colorado | www.colorado.edu/hazards |
| Natural Hazards Centre - Australia | www.es.mq.edu.au/NHRC/ |
| Project Safeside | www.weather.com/safeside |

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<th>NOAA Research Labs</th>
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<tr>
<td>Atlantic Oceanographic and Meteorological Lab.</td>
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<td>Environmental Technology Laboratory</td>
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<td>Forecast Systems Laboratory</td>
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<td>Great Lakes Environmental Research Lab.</td>
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<td>National Severe Storms Laboratory</td>
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<td>Pacific Marine Environmental Laboratory</td>
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<td>Space Environment Laboratory</td>
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<th>National Environmental Satellite, Data, and Information Service</th>
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<td>National Climatic Data Center</td>
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<td>National Weather Service</td>
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<td>Alaska Region</td>
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<td>Central Region</td>
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<td>Climate Prediction Center</td>
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<td>Forecast Offices’ Internet Addresses</td>
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<td>Southern Region</td>
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<td>Storm Prediction Center</td>
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<td>Tropical Prediction Center</td>
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<td>Western Region</td>
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<td>Publications of the National Weather Service</td>
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<th>NOAA-By Subject</th>
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<tr>
<td>Current Weather</td>
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<td>Fire Weather</td>
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<td>Jobs – NOAA (incl. student)</td>
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<td>Jobs – Student</td>
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<td>History of the NWS</td>
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<td><a href="http://www.nws.noaa.gov/er/mhx/historyg.htm">www.nws.noaa.gov/er/mhx/historyg.htm</a></td>
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<td>yoopr.wrlx.noaa.gov/er/rlx/museum/museum.html</td>
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<tr>
<td>205.156.54.206/er/gyx/timeline.html</td>
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<tr>
<td>Hurricane – Frequently Asked Questions</td>
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<tr>
<td>Hurricane Information</td>
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<tr>
<td>Lightning, Severe Weather (and Wildfire)</td>
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<td>Modernization</td>
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<td>Natural Hazard Statistics - Summary</td>
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<td>NWS Publications - Listing</td>
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<td>Outreach – NWS</td>
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<td>Owlie Skywarn Weather Book for Kids</td>
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<td>Overpasses Are Not Tornado Shelters</td>
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<td>Publications of NWS - Listing</td>
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<td>Radar Sites - University of Oklahoma</td>
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<td>Satellites – Weather</td>
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<td>Severe Weather Sites</td>
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<td><a href="http://www.nws.noaa.gov/om/svrawar/svwx.htm">www.nws.noaa.gov/om/svrawar/svwx.htm</a></td>
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<tr>
<td>StormReady</td>
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<td>Thunderstorm Awareness</td>
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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:


**Government CD-ROMs**

- **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
  
  Web: www.ncdc.noaa.gov

- **International Station Meteorological Climate Summary**

- **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**

- **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:
7.3. INSTRUCTIONAL SOFTWARE

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.


• Any Weather

• Climate and Weather/Our Town Data Base
  Grades 4-12.
  Sunburst Communications, 101 Castleton Street, Pleasantville, NY 10570.

• Discovery Works Weather and Climate

• Earth Science
  Videodisk, $395.00, Grades 4 to 12.
  Optical Data, 30 Technology Drive, Warren, NJ 07060.

• Everything Weather
  The Weather Channel, 300 Interstate North Parkway, Atlanta, GA 30339.
  Web: www.weather.com

• Five Star Forecast
  Disk, manual, and workbook, $59. Part of MECC’s Science Inquiry Collection including ‘Weather maker’ and ‘Forecaster.’


• 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

• More Weather

• Weather
  - Forecasting the weather.
  - Temperature, humidity, air pressure, and wind.
  - The weather station.
  Orange Cherry, Box 390, Pound Ridge, NJ 10576-0390.

• The Weather

• Weather
• 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
8. DATA SOURCES

Weather observations at numerous stations can be accessed nearly real time 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.

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
  162.450 Mhz
  162.500 Mhz
  162.550 Mhz
  161.775 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

• 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


• 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

• 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: hpcsun.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
Phone: (217) 244-1488
(217) 344-8226

Northeast Regional Climate Center
Ithaca, NY 14853
Web: met-www.cit.cornell.edu
Phone: (607) 255-1749
(607) 255-1751

Southeast Regional Climate Center
Alabama, Florida, Georgia, North Carolina, South Carolina, Virginia.
1201 Main Street, Suite 100
Columbia, SC 29201
Web: water.dnr.state.sc.us/climate/sercc/
Phone: (803) 737-0800

Southern Regional Climate Center
Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, Texas.
Baton Rouge, LA 70803-4105
Web: 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/
Phone: (702) 677-3139
(702) 677-3106
9. **PROFESSIONAL ORGANIZATIONS**

### Weather
American Meteorological Society (AMS)
45 Beacon Street
Boston, MA 02108-3693
Phone: (617) 227-2425
Web: 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

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

### General Science
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

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

Phone: (202) 939-3223
Web: www.agu.org

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

### Education
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/


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.faiwfsno.org/
WCM: John Lingas
Phone: 907-458-3712

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

Kodiak
Web: www.ptialaska.net/~wsoadq

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.nws.la.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.wrh.noaa.gov/Sanfrancisco
WCM: Charles Morrill
Phone: 415-696-6720

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
<table>
<thead>
<tr>
<th>Location</th>
<th>Web Address</th>
<th>WCM Name</th>
<th>Phone</th>
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<tr>
<td>Pueblo</td>
<td><a href="http://www.crh.noaa.gov/pub/">www.crh.noaa.gov/pub/</a></td>
<td>Tom Magnuson</td>
<td>719-948-9429</td>
</tr>
<tr>
<td>District of Columbia (see Virginia)</td>
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<td>Florida</td>
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<tr>
<td>Key West</td>
<td><a href="http://www.srh.noaa.gov/eyw/">www.srh.noaa.gov/eyw/</a></td>
<td>Wayne Presnell</td>
<td>305-295-1316</td>
</tr>
<tr>
<td>Melbourne</td>
<td><a href="http://www.srh.noaa.gov/mlb">www.srh.noaa.gov/mlb</a></td>
<td>Dennis Decker</td>
<td>407-255-0212</td>
</tr>
<tr>
<td>Miami</td>
<td><a href="http://www.srh.noaa.gov/mia/">www.srh.noaa.gov/mia/</a></td>
<td>Jim Lushine</td>
<td>305-229-4522</td>
</tr>
<tr>
<td>Tallahassee</td>
<td><a href="http://www.srh.noaa.gov/tlh/">www.srh.noaa.gov/tlh/</a></td>
<td>Bob Goree</td>
<td>904-942-8999</td>
</tr>
<tr>
<td>Georgia</td>
<td></td>
<td>Barry Gooden</td>
<td>770-486-1333</td>
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<tr>
<td>Atlanta</td>
<td><a href="http://www.srh.noaa.gov/ffc/">www.srh.noaa.gov/ffc/</a></td>
<td>Barry Gooden</td>
<td>770-486-1333</td>
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<td>Guam</td>
<td><a href="http://tgsv5.nws.noaa.gov/pr/guam/">tgsv5.nws.noaa.gov/pr/guam/</a></td>
<td>Tom Tarlton</td>
<td>671-472-7423</td>
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<td>Hawaii</td>
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<td>Honolulu</td>
<td><a href="http://tgsv5.nws.noaa.gov/pr/hnl/">tgsv5.nws.noaa.gov/pr/hnl/</a></td>
<td>Thomas Heffner</td>
<td>808-973-5275</td>
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<td>Idaho</td>
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<td>Pocatello</td>
<td><a href="http://www.wrh.noaa.gov/Pocatello/">www.wrh.noaa.gov/Pocatello/</a></td>
<td>Vern Preston</td>
<td>208-233-0834</td>
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<td>Chicago</td>
<td><a href="http://www.chr.noaa.gov/lot/">www.chr.noaa.gov/lot/</a></td>
<td>Jim Allsopp</td>
<td>815-834-0600</td>
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<td>Indianapolis</td>
<td><a href="http://www.crh.noaa.gov/ind/">www.crh.noaa.gov/ind/</a></td>
<td>David Tucek</td>
<td>317-856-0361</td>
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<td>Dodge City</td>
<td><a href="http://www.crh.noaa.gov/ddc/">www.crh.noaa.gov/ddc/</a></td>
<td>Jeff Hutton</td>
<td>316-227-7140</td>
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<tr>
<td>Goodland</td>
<td><a href="http://www.crh.noaa.gov/gld/">www.crh.noaa.gov/gld/</a></td>
<td>Kevin Lynott</td>
<td>785-899-7119</td>
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<tr>
<td>Topeka</td>
<td><a href="http://www.crh.noaa.gov/top/">www.crh.noaa.gov/top/</a></td>
<td>Mike Akulow</td>
<td>785-232-1493</td>
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<td>Jackson</td>
<td><a href="http://www.crh.noaa.gov/jkl/">www.crh.noaa.gov/jkl/</a></td>
<td>Jim Keeney</td>
<td>606-666-4856</td>
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<td>Louisville</td>
<td><a href="http://www.crh.noaa.gov/lmk/">www.crh.noaa.gov/lmk/</a></td>
<td>Norman Reitmeyer</td>
<td>502-969-8842</td>
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<td>Lake Charles</td>
<td><a href="http://www.srh.noaa.gov/lch/">www.srh.noaa.gov/lch/</a></td>
<td>Roger Erickson</td>
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<td>Maine</td>
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<td>Hendricus Lulofs</td>
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<td>John Jensenius</td>
<td>207-688-3126</td>
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<td>Massachusetts</td>
<td>Boston</td>
<td>Glenn Field</td>
<td>508-823-1900</td>
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<td>Detroit</td>
<td>Darin Figurskey</td>
<td>248-625-3309</td>
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<td>Grand Rapids</td>
<td>Mike Heathfield</td>
<td>616-956-5922</td>
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<td>Marquette</td>
<td>Jack Pellett</td>
<td>906-475-5782</td>
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<td>North Central Lower Michigan</td>
<td>Brian Hirsch</td>
<td>517-731-3384</td>
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<td>Michigan</td>
<td>Duluth</td>
<td>Carol Christenson</td>
<td>218-729-0651</td>
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<td>Minneapolis</td>
<td>Todd Krause</td>
<td>612-361-6670</td>
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<td>Minnesota</td>
<td>Jackson</td>
<td>James Butch</td>
<td>601-936-2189</td>
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<td>Missouri</td>
<td>Kansas City</td>
<td>Bill Bunting</td>
<td>816-540-5147</td>
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<td>Montana</td>
<td>Billings</td>
<td>Stephen Kuhl</td>
<td>406-652-0851</td>
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<td>Glasgow</td>
<td>Kimberley Bailey</td>
<td>406-228-2850</td>
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<td>Great Falls</td>
<td>Rick Dittman</td>
<td>406-453-2081</td>
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<td>Peter Felsch</td>
<td>406-329-4841</td>
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<td>Hastings</td>
<td>Steve Kisner</td>
<td>402-462-2127</td>
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<td>North Platte</td>
<td>Brian Smith</td>
<td>402-359-2394</td>
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<td>Nevada</td>
<td>Elko</td>
<td>Jim Dudley</td>
<td>775-738-3018</td>
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<td>Las Vegas</td>
<td>Ron McQueen</td>
<td>702-263-9744</td>
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<td>Reno</td>
<td>Roger Lamoni</td>
<td>775-673-8107</td>
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<td>New Mexico</td>
<td>Albuquerque</td>
<td>Keith Hayes</td>
<td>505-243-0702</td>
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New York
Albany
Web: web.nws.cstm.albany.edu/
WCM: Dick Westergard
Phone: 518-435-9568
Binghamton
Web: www.nws.noaa.gov/er/bgm/
WCM: Dave Nicosia
Phone: 607-770-9531
Buffalo
Web: www.wbuf.noaa.gov/
WCM: Stan Levine
Phone: 716-565-0204
New York City
Web: www.nws.noaa.gov/er/okx/
WCM: Gary Conte
Phone: 631-924-0037

North Carolina
Newport
Web: www.nws.noaa.gov/er/mhx/
WCM: Jeff Orrock
Phone: 919-223-5122
Raleigh/Durham
Web: www.nws.noaa.gov/er/rah/
WCM: George Lemons
Phone: 919-515-8209
Wilmington
Web: nwsilm.wilmington.net
WCM: Tom Matheson
Phone: 910-762-4289

North Dakota
Bismarck
Web: www.crh.noaa.gov/bis/
WCM: Daniel Noah
Phone: 701-250-4224
Grand Forks
Web: www.crh.noaa.gov/fgf/
WCM: Greg Gust
Phone: 701-772-0720

Ohio
Cincinnati
Web: www.nws.noaa.gov/er/iln/
WCM: Mary Jo Parker
Phone: 937-383-0031
Cleveland
Web: www.csuohio.edu/nws/
WCM: Gary Garnet
Phone: 216-265-2370

Oklahoma
Oklahoma City
Web: www.srh.noaa.gov/oun/
WCM: Jim Purpura
Phone: 405-366-6583
Tulsa
Web: www.srh.noaa.gov/tulsa/
WCM: George Matthews
Phone: 918-832-4115

Oregon
Medford
Web: www.wh.noaa.gov/Medford/
WCM: Jim Reynolds
Phone: 541-773-1067
Pendleton
Web: www.wh.noaa.gov/Pendleton/
WCM: Dennis Hull
Phone: 541-276-7832
Portland
Web: www.wh.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/
WCM: Joe Miketta
Phone: 609-261-6600
Pittsburgh
Web: www.nws.noaa.gov/er/pit/
WCM: Rich Kane
Phone: 412-262-1591
State College
Web: nws-sc.met.psu.edu/
WCM: Tom Dunham
Phone: 814-234-9412

Puerto Rico
Web: www.upr.clu.edu/nws/
WCM: Rafael Mojica
Phone: 787-253-4586

South Carolina
Charleston
Web: wchs.csc.noaa.gov/
WCM: Jerry Harrison
Phone: 843-744-3207
Columbia
Web: www.nws.noaa.gov/er/cae/
WCM: Steve Naglic
Phone: 803-765-5501
Greenville-Spartanburg
Web: www.nws.noaa.gov/er/gsp/
WCM: Vince Di Carlo
Phone: 864-848-1332

South Dakota
Aberdeen
Web: www.crh.noaa.gov/abr/
WCM: George Marshall
Phone: 605-225-5547
Rapid City
Web: www.crh.noaa.gov/fsd/
WCM: Susan Sanders
Phone: 605-341-9271
Sioux Falls
Web: www.crh.noaa.gov/unr/
WCM: Todd Heitkamp
Phone: 605-330-4247
Tennessee
Knoxville/Tri-Cities
Web: www.srh.noaa.gov/mrx/
WCM: Howard Waldron
Phone: 423-586-9040
Memphis
Web: www.srh.noaa.gov/meg/
WCM: Jim Belles
Phone: 901-544-0399
Nashville
Web: www.srh.noaa.gov/bna/
WCM: Jerry Orchanian
Phone: 615-754-8506

Texas
Amarillo
Web: www.srh.noaa.gov/ama/
WCM: Steve Drillette
Phone: 806-335-1121
Austin/San Antonio
Web: www.srh.noaa.gov/ewx/
WCM: Larry Eblen
Phone: 830-629-0130
Brownsville
Web: www.srh.noaa.gov/bro/
WCM: Hector Guerrero
Phone: 956-504-1432
Corpus Christi
Web: www.srh.noaa.gov/crp/
WCM: Terry Huber
Phone: 361-289-0959
Dallas/Fort Worth
Web: www.srh.noaa.gov/fwd/
WCM: Gary Woodall
Phone: 817-429-2631
El Paso
Web: www.srh.noaa.gov/elp/
WCM: John Fausett
Phone: 505-589-4088
Houston/Galveston
Web: www.srh.noaa.gov/hgx/
WCM: Gene Hafle
Phone: 281-337-5074
Lubbock
Web: www.srh.noaa.gov/lub/
WCM: Ed Calianese
Phone: 806-745-4260
Midland/Odessa
Web: www.srh.noaa.gov/maf/
WCM: Pat Vesper
Phone: 915-563-5006
San Angelo
Web: www.srh.noaa.gov/sjt/
WCM: Buddy McIntyre
Phone: 915-944-9445

Utah
Salt Lake City
Web: www.wrh.noaa.gov/Saltlake/
WCM: Dave Toronto
Phone: 801-524-5113

Vermont
Burlington
Web: www.nws.noaa.gov/er/btv/
WCM: Steve Hogan
Phone: 802-862-2475

Virginia
Baltimore/Washington (Sterling)
Web: www.nws.noaa.gov/er/lwx/
WCM: Barbara Watson-McNaught
Phone: 703-260-0107
Roanoke
Web: www.bev.net/weather/
WCM: Mike Emlaw
Phone: 540-552-0084
Wakefield
Web: www.nws.noaa.gov/er/akq/
WCM: Bill Sammler
Phone: 757-899-4200

Washington
Seattle/Tacoma
Web: www.wrh.noaa.gov/seattle/
WCM: Ted Buehner
Phone: 206-526-6095
Spokane
Web: www.wrh.noaa.gov/Spokane/
WCM: Ken Holmes
Phone: 509-244-0110

West Virginia
Charleston
Web: www.nws.noaa.gov/er/rlx/
WCM: Dan Bartholf
Phone: 304-746-0173

Wisconsin
Green Bay
Web: www.crh.noaa.gov/grb/
WCM: Jeff Last
Phone: 920-494-5845
LaCrosse
Web: www.crh.noaa.gov/arx/
WCM: Todd Shea
Phone: 608-784-6275
Milwaukee/Sullivan
Web: www.crh.noaa.gov/mkx/
WCM: Rusty Kapela
Phone: 414-297-3243

Wyoming
Cheyenne
Web: www.crh.noaa.gov/cys/
WCM: John Griffith
Phone: 307-772-2468
Riverton
Web: www.crh.noaa.gov/riv/
WCM: Donald Noll
Phone: 307-857-3898
National Centers

**Air Weather Center**
Web: www.awc-kc.noaa.gov  
WCM: Ron Olson  
Phone: 816-584-7237

**National Hurricane Center (Tropical Prediction Center)**
Web: www.nhc.noaa.gov  
WCM: Stacy Stewart  
Phone: 305-229-4463

**Hydrometeorological Prediction Center**
Web: www.hpc.ncep.noaa.gov  
WCM: Vacant  
Phone: 301-763-8000 x7307

**Marine Prediction Center**
Web: www.mpc.ncep.noaa.gov  
WCM: Vacant  
Phone: 301-763-8097

**Storm Prediction Center**
Web: www.spc.noaa.gov  
WCM: Dan McCarthy  
Phone: 405-579-0771

Organizations

**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

**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

**Weather Modification Association**
P.O. Box 8116  
Fresno, CA 93727-8116  
Phone: (209) 436-3486

**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 School Weather Project**
State University of New York College at Brockport  
Brockport, NY 14420

**For Spacious Skies**
54 Webb Street  
Lexington, MA 02173
Powers of Nature Exhibit

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AAAS</td>
<td>American Association for the Advancement of Science</td>
</tr>
<tr>
<td>AAPT</td>
<td>American Association of Physics Teachers</td>
</tr>
<tr>
<td>AERA</td>
<td>Atmospheric Education Resource Agent for the AMS</td>
</tr>
<tr>
<td>AGU</td>
<td>American Geophysical Union</td>
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<tr>
<td>AMS</td>
<td>American Meteorological Society</td>
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<tr>
<td>CMOS</td>
<td>Canadian Meteorological and Oceanographic Society</td>
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<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
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<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
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<td>ISBN</td>
<td>International Standard Book Number</td>
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<td>ISSN</td>
<td>International Standard Serial Number</td>
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<tr>
<td>NAGT</td>
<td>National Association of Geology Teachers</td>
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<tr>
<td>NASA</td>
<td>National Aeronautics and Space Administration</td>
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<tr>
<td>NCAR</td>
<td>National Center for Atmospheric Research</td>
</tr>
<tr>
<td>NCDC</td>
<td>National Climatic Data Center</td>
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<tr>
<td>NESTA</td>
<td>National Earth Science Teachers Association</td>
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<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
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<td>NSSL</td>
<td>National Severe Storms Laboratory</td>
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<td>NSTA</td>
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<td>NWA</td>
<td>National Weather Association</td>
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<td>NWS</td>
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<td>NWSFO</td>
<td>National Weather Service Forecast Office</td>
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<tr>
<td>UCAR</td>
<td>University Corporation for Atmospheric Research</td>
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<tr>
<td>WMO</td>
<td>World Meteorological Organization</td>
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