



# Acid Rain and GIS Resources

## Data Resources

Which of one the following sources provides the most insightful data on acid rain?

- [GLOBE Student Data](#)
- [National Water Conditions](#) - United States Department of the Interior Geological Survey

## GIS Resources

- [Geographic Information Systems from the USGS](#)
- [GIS Sites on the Internet](#) - Comprehensive Listing of GIS sites.
- [GIS Frequently Asked Questions and General Info List Index](#)
- [EPA National GIS Program](#) - Spatial Data Management - Putting EPA on the Map
- [ORNL Review - The Lab's Research and Development Magazine](#)
- [Remote Sensing and GIS Information](#) - An extensive listing of GIS related resources and sites.

## Acid Rain

- [Acid Rain Program's Home Page](#)
- [EcoNet's Acid Rain Resources](#)
- [GLOBE HOME PAGE](#)
- [Home Page for D.A. Swayne](#)
- [University of Guelph Computing Research Lab for the Environment](#)
- [Regional Analysis by Intelligent Systems ON computer \(RAISON\)](#)

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## Acid Rain

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## IGC Resources

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## Conferences

- [Konsekvenser av kalking i skog og vatn, 14 - 15. november 1995 i Bø.](#) "Consequences of liming of forest and water," discussion of liming as a technique to mitigate the effects of acid rain, being held in H&oslash;skolen i Telemark, Norway. Site still live, two years later! This page is in Norse. Conference subjects include: Situation of the acidification and using of lime in Norway; Economics of liming; Strategies of liming; Alternatives to lime in the forestry; Alternatives to lime in freshwater; Influence of liming on the species and genetic diversity; Effects of lime on terrestrial vegetation; Effects of lime on algae; Osteoporosis ("Weak bones") in moose in southern Norway, a acidification / lime problem?; Lime in natural acid rivers. (Many thanks to those who sent translations of the text.)

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## Publications

- [Acid Rain from Man and Nature](#). Quest Magazine, Volume 14, Number 4, Spring 1980.
- [Common threads: Research lessons from acid rain, ozone depletion, and global warming](#). By M.E. Kowalok, 1993. Environment 35 (6): 12-20, 35-38.
- [The Dying Of The Trees](#), Rachel's Environment and Health Weekly #476, January 11, 1996. A review of Charles Little's book on the worldwide dieoff of forests.

and

- [Acid Rain Killing Sugar Maple Trees in U.S. and Canada](#), Rachel's Hazardous Waste News #10., February 2, 1987. Rachel's Environment and Health Weekly, formerly Rachel's Hazardous Waste News, is published by the Environmental Research Foundation, P.O. Box 5036, Annapolis, MD 21403; Fax (410) 263-8944; Internet: erf@rachel.clark.net. To subscribe, send E-mail to rachel-weekly-request@world.std.com with the single word SUBSCRIBE in the message. It's free. Back issues available via anonymous ftp from ftp.std.com/periodicals/rachel and from gopher.std.com.
- [Tree Physiology: An International Journal](#), ISBN 0829-318X. Editor: Rozanne Poulson, University of Victoria, B.C., Canada; rpoulson@uvvm.uvic.ca. Published by: Heron Publishing, 202-3994 Shelbourne St., Victoria, B.C., V8N 3E2, Canada; hp@dataflux.bc.ca. Phone: 604 721 9921; Fax: 604 721 9924. Tree Physiology is a refereed journal, published monthly and distributed in over 60 countries. It publishes both technical reviews and original research reports on all aspects of tree physiology including: responses of forest, crop and ornamental tree species to acid rain, air pollutants, ultraviolet radiation and global warming; the genetic transformation and micropropagation of trees; tree growth, reproduction, nutrition, photosynthesis, and environmental adaptation; and the relation between tree structure and function.

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## Information sites

- [The Adirondack Council](#) is a citizen research, education and advocacy group working to preserve and protect New York's Adirondack Park. The Adirondack Park is a 6-million-acre (the size of Vermont!) patchwork mix of state-owned public lands and privately held lands. **NEW!**
- [Chehalis River Council](#): Information on water - quality and quantity - as a resource, in the 2600 square mile Chehalis Watershed. **NEW!**
- **Citizen Acid Rain Survey**: The Japan Eco/Institute has been assisting citizens in six countries to survey the impact of acid rain. In Japan alone, the Institute received over 20,000 acid rain survey data forms from 1990 to 1995, and is now helping with similar efforts in Jordan, Pakistan, Hungary, and Russia. For 1996, they are trying to complete a worldwide "Global Sensing Project" and create an acid rain map. Get your classroom, school, or community involved by contacting Hiroyasu Masuyama at Japan Eco/Institute, [ecoken@kiwi.ifnet.or.jp](mailto:ecoken@kiwi.ifnet.or.jp), 1-12-22, Mita, Meguro-ku, Tokyo, Japan, 153 Tel 81-3-3793-1641 Fax 81-3-3711-8550.

- [Ph Precipitation Map](#) of the United States, provided by the U.S. Department of the Interior Geological Survey (USGS).
- [National Acid Precipitation Assessment Program](#) (U.S.)--Tracking and Analysis Framework.
- [National Atmospheric Deposition Program \(NADP\)](#) "is the only nationwide monitoring network for acid rain. The site has isopleth maps of acidity and the other major ions contained in precipitation."
- [USGS Acid Rain Quality Assurance Project](#).
- [Acid Deposition in Southeastern Brazil](#). This link can be slow. Research into acid rain in the most highly industrialized section of Brazil.
- [State of the Environment Norway-Acid Rain](#)
- [Acid Rain in the Northeastern United States](#). Mann Library, Cornell University.
- [Acid Rain FAQ](#), by Environment Canada. Very informative FAQ in a question-and-answer format, and a well-designed site.
- [Acid Rain Program](#) of the US EPA. General information on acid rain and specific information on EPA programs to reduce and prevent it.
- [Atmospheric Research & Information Centre](#) at Manchester Metropolitan University, Manchester England, provides research, consultancy, and information in atmospheric sciences for the study and resolution of air quality problems.
- [The New Brunswick Precipitation Monitoring Program](#). Includes links to extensive software, databases, and monitoring data for New Brunswick, Canada.
- [Canadian Coalition on Acid Rain](#)
- Pennsylvania Department of Environmental Protection's [Bureau of Air Quality](#) is pretty huge. You can do a search to find their lengthy reports on acid rain in Pennsylvania.
- [The Clean Coal Technology Program](#). "No country comes close to the United States' Clean Coal Technology Demonstration Program.", and this site tells you why. Despite the hyper-enthusiasm, valuable information on public-private initiatives in this area sponsored by the U.S. Department of Energy (DOE).
- [EnvJourn Home Page:Air Pollution](#), a small but nice set of links to a range of general air pollution resources, including U.S. National Oceanic and Atmospheric Administration (NOAA) and U.S. Environmental Protection Agency (EPA) sites.
- [Acid Rain & the Dirtiest Power Stations in England and Wales](#) -- part of the Friends of the Earth, England, Wales and Northern Ireland Web site. Includes a nifty map.

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## Educational Resources

- [Acid Rain Laboratory Activities](#), geared for grades 6,7 & 8. This site is part of the [Explorer Databases](#), being developed jointly by the [University of Kansas UNITE group](#) and the [Great Lakes](#)

[Collaborative](#), to create online resources for young students of mathematics and natural sciences.

- [You Can & Acid Rain](#). More acid rain info and activities for schoolchildren, courtesy of the science television program "Beakman's World." Written and designed for the young websurfer.
- [Acid Rain Educational Activities](#) from Newton's Apple, the PBS science show for schoolchildren.
- [Acid Rain educational activities](#) with the focus on **Europe** rather than North America. Thorough information and a great [map of effects across Europe](#).

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## Strange and unusual sites

- [AGU HomePage: Venusian Vignette](#): Acid rain on Venus. Includes a nice b/w photo of Venus. Site maintained by the American Geophysical Union.
- [Acid Rain: The Mixed Drink](#). It had to happen, and it sounds pretty awful.

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# THE GLOBE PROGRAM

GLOBAL LEARNING AND OBSERVATIONS TO BENEFIT THE ENVIRONMENT



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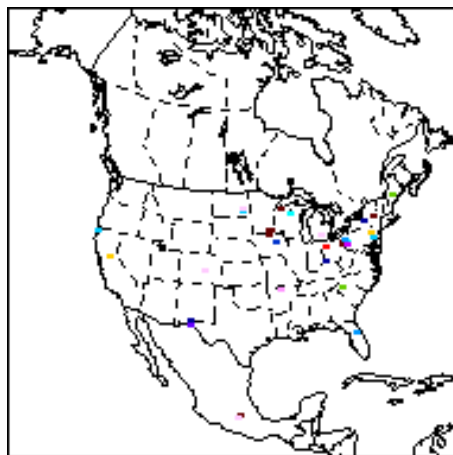
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2002 June 08 20:49:10, Saturday

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0 50 300  
Alkalinity (mg/L as CaCO<sub>3</sub>)

### [GLOBE Student Data](#)

[Water Alkalinity \(2002-06-08\)](#)

### [GLOBE Stars:](#)

#### **Students Go Down a Creek for Hydrology Data**

All year long, students from Alexander Dawson School in Lafayette, CO, USA, study the section of Boulder Creek running by their school. For a week in spring, some GLOBE students hike up to snow-capped peaks, then follow the river's run down the mountains [More...](#)

### [GLOBE Bulletins:](#)

#### **2003 GLOBE Learning Expeditions**

A GLOBE Learning Expedition (GLE) will be held in June 2003 in Sibenik, Croatia! GLOBE will select approximately 10 student teams to represent The United States in Croatia. Each team will consist of 2-4 students accompanied by a teacher-chaperone. GLOBE will select the US teams to attend the meeting based [More...](#)

### [Teachers/Partners: "Earth as a System" draft is ready for your comments](#)

A draft of GLOBE's newest Teachers Guide section, "Earth As a System," now is available on this web site. It shows how data from individual GLOBE measurements can be combined to study Earth's systems on local, regional, and global scales. Included in the Chapter are the two new Phenology Protocols released last fall and a large number of new learning activities relating to the seasons, phenology, and local, regional, and global connections among environmental parameters. [More...](#)

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[Questions/Comments regarding the GLOBE Program](#) NOAA/Forecast Systems Laboratory, Boulder, Colorado USA